

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP-2

PRIMARY REACTOR CONTAINMENT

1994 INTEGRATED LEAKAGE RATE TEST

FINAL REPORT

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Washington Public Power Supply System
WNP-2 Primary Reactor Containment
1994 Integrated Leakage Rate Test Final Report

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1.0 INTRODUCTION

The containment integrated leakage rate test (ILRT) is performed as required by 10 CFR 50/Appendix J (Reference 1) to demonstrate that leakage across the containment boundary at design basis accident pressure does not exceed the Technical Specification limit. Test methods and procedures are specified in ANSI N45.4-1972 (Reference 2), ANSI/ANS 56.8-1987 (Reference 3) and BN-TOP-1 (Reference 4). Both of the ANSI documents are referenced in Appendix J. BN-TOP-1 defines an alternative methodology which is acceptable to the Nuclear Regulatory Commission. The conduct of the ILRT follows a plant surveillance procedure (Reference 5) which contains detailed instructions for all test phases. The procedure incorporates the requirements and acceptance criteria identified in the plant Final Safety Analysis Report (FSAR) and Technical Specifications.

Leakage rate is determined using the calculational methods identified by reference in the FSAR. For a test duration of at least 12 hours, but less than 24 hours, the FSAR specifies the methods cited in ANSI N45.4. Actual test duration was 12 hours and, therefore, the ANSI N45.4 total time method was used to determine leakage rate.

The ILRT is described in detail in the following sections of this report. Section 2, Summary, gives a synopsis of test activities and results. Section 3, Methodology, discusses measurements and calculations. Section 4, Procedures, describes how the test was conducted. Section 5, Results, presents the parameters calculated during the ILRT and the associated acceptance criteria. Section 6 lists references and Section 7 includes all tables and figures cited in the text. The Appendix contains a description of the containment, a discussion of the computer program used to calculate leakage rate, and a tabulation of all Type B and C local leakage rate testing results obtained since the previous ILRT. All data recorded during the ILRT is archived with the Official Test Copy of Ref. 5.

2.0 SUMMARY

2.1 Type A Test

The ILRT was conducted on July 18-20, 1994. Pressurization commenced at 5:05 AM on July 18, following the completion of all prerequisite activities, but was interrupted a short time later by a half scram signal. It was restarted at 9:54 AM and the containment was isolated at approximately 8:30 PM when containment pressure had reached 38.7 psig. The temperature stabilization period started at 8:45 PM.

Numerical temperature stabilization criteria were met by 12:45 AM on July 19. However, the formal start of the Type A test was delayed since calculated leakage during the latter part of the stabilization period was in excess of L_a . Significant leakage was found at a loose instrument tube fitting, which was tightened following an evaluation. The Type A test was started at 4:00 AM on July 19, and was successfully concluded in 12 hours at 4:00 PM.

A containment air sample was taken at the conclusion of the Type A test to ensure that the air released during the verification test and final depressurization would not contain

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radioactive particulates and gasses in excess of allowable limits. The verification test imposed flow was initiated at 5:10 PM on July 19, following the completion of air sample analysis. The verification test was started at 5:15 PM and successfully concluded in 4 hours at 9:15 PM.

Containment depressurization commenced at about 12:15 AM on July 20 and was complete by about 8:30 PM on the same day.

Test results are listed below:

95 % UCL on total time leakage rate plus corrections	0.302 %/day
Acceptance limit (0.75 La)	0.375 %/day
Verification test upper acceptance limit	0.862 %/day
Verification test total time calculated leakage rate	0.666 %/day
Verification test lower acceptance limit	0.612 %/day

The above listed as-left leakage rate of 0.302 %/day includes corrections of 0.010 %/day for suppression pool rise, 0.002 %/day for reactor vessel level increase, 0.020 %/day for sump level increase, and 0.011 %/day for minimum pathway leakage through penetrations not vented and drained for the test.

The computed as-found leakage rate is 0.330 %/day. This is the sum of the 0.302 %/day as-left leakage rate and the 0.028 %/day penetration minimum pathway leakage rate improvements made during the 1994 refueling outage.

2.2 Type B & C Tests

Type B & C local leak rate testing was performed during each of the three annual spring outages since the last ILRT conducted in 1991. The last test period occurred just prior to the 1994 ILRT. The leakage rates listed below represent a summation of as-left maximum pathway penetration leakages applying single failure criteria to active containment boundary valves. The allowable leakage rate for the sum of each Type B & C test sequence is 56,600 sccm (0.5 La) as modified by Reference 7. The summation of the as-found maximum pathway leakage rates exceeded 0.6 La. An analysis and interpretation of the as-found test results is included in Appendix IV of this report. Additionally, Appendix IV includes a supplement outlining the unique aspects of the WNP-2 Type B & C testing program as delineated by Reference 7.

- Spring 1992 Outage

The measured leak rate for the sum of the as-left Type B & C tests was 17,414 sccm (0.15 La).

- Spring 1993 Outage

The measured leak rate for the sum of the as-left Type B & C tests was 11,184 sccm (0.10 La).

- Spring 1994 Outage

The measured leak rate for the sum of the as-left
Type B & C tests was 14,336 sccm (0.13 La).

3.0 METHODOLOGY

3.1 Leakage Rate Calculation

Integrated leakage rate is determined by pressurizing the containment to design basis accident pressure and calculating the average rate of loss of dry air from the structure over a specified time period. The quantity of dry air in the containment is computed using the ideal gas law and measurements of drybulb temperature, dewpoint temperature, and absolute pressure.

A single average drybulb temperature, T , is calculated from the 18 measured temperatures and their associated weighting factors (discussed below) using the procedure described in Ref. 3. Individual dewpoint temperatures (6) are converted to vapor pressures using the ASME Steam Tables saturation line algorithm. A single average vapor pressure is calculated as the sum of the products of the individual vapor pressures and their weighting factors. Dry air partial pressure, P , is measured total pressure less average vapor pressure.

The quantity of air in the containment is:

$$M = PV/RT$$

where M is quantity in mass units, V is containment free air volume, R is the gas constant for air and P and T are defined above. Containment free air volume used for ILRT calculations is 343,040 cubic feet. R , in English units, is 53.35 pounds force-feet/pounds mass-degrees Rankine. The partial pressure of dry air is used in the computation so that pressure changes resulting from evaporation of liquid water and condensation of vapor do not affect calculated leakage rate.

Leakage rate is calculated using the total time method described in Ref. 2. The following computations are performed to determine the total time leakage rate:

- The Measured Leakage Rate is computed for each data set except the first. This leakage rate is the difference between initial air mass and current air mass divided by the time elapsed between the initial and current data sets.
- The slope and intercept of a line fitted to the Measured Leakage Rate/time data sets are computed using the method of least squares.
- Calculated Leakage Rate is computed as the end of test ordinate of the fitted line.

- The 95% Upper Confidence Limit (UCL) on the Calculated Leakage Rate is computed using standard regression analysis techniques as described in Ref. 3 and in the statistics texts referenced therein.

The UCL on the leakage rate, plus adjustments for leakage through penetrations not isolated by normal means and changes in containment water inventory, must not exceed 75 % of L_a . L_a (0.5 %/day) is the maximum allowable leakage rate defined in the Technical Specifications. When leakage rate is determined using the above described total time calculations, test duration must be at least 12 hours as specified in the FSAR.

Following the determination of leakage rate, the calculational method is verified by imposing an additional leak on the containment and determining the new rate. The new rate must equal the previously calculated rate plus the imposed rate plus or minus a tolerance of $L_a/4$. The imposed leak, vented from the containment through a flow meter, is approximately equal to L_a . This supplemental or verification test also provides a rough check on pressure measurement since a significant error in the measurement of pressure change will result in a calculated leakage rate which is outside the acceptance band.

3.2 Test Measurements

Leakage rate calculations are based on data taken from drybulb and dewpoint temperature sensors located inside the containment, as well as absolute pressure transducers ported to the containment through piping penetrations. Eighteen drybulb temperature sensors and 6 dewpoint temperature sensors were installed. Of these, 4 drybulb and 2 dewpoint sensors were located in the wetwell. One drywell drybulb sensor was placed in the head space. Temperature sensors were wired to the data acquisition system (see below) through containment electrical penetrations.

As-installed sensor locations and weighting factors (volume fractions) are listed in Table 1. Sensor locations and weighting factors were established by considering the spatial pattern of temperature changes determined during past tests. Since temperature changes tend to vary principally with elevation, drywell sensors were set at approximately equally spaced elevations. Those in the wetwell were set at about the midheight of the air space above the suppression pool. Temperatures and dewpoints at this level are considered to be representative of the relatively uniform conditions in the wetwell.

While there is no evidence that containment atmospheric conditions vary significantly with plan location at a fixed elevation, the possibility of an unusual in-plane temperature distribution was provided for by horizontally offsetting vertically adjacent sensors. Containment geometry is described, for reference, in Appendix I.

Drybulb temperatures were measured using 100 Ohm platinum resistance temperature detectors (RTD's). Dewpoint temperatures were measured by chilled mirror dew cells.

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These devices use a thermoelectric junction to cool a small mirror. An LED focuses a beam on the mirror, which reflects the beam to a photodetector. The intensity of the reflected light changes when the mirror cools to the dewpoint and collects condensation. A small RTD senses mirror temperature, which is controlled at the dewpoint by the photodetector circuit. The dewpoint temperature sensors are completely self-contained units requiring 24 VDC input power. The RTD sensing mirror temperature provides the output (a resistance). The RTD's and dew cells were connected to the data acquisition system through containment electrical penetrations. Three 24 VDC power supplies provided operating power to the dew cells through containment electrical penetrations.

Absolute pressure was measured by 2 vibrating cylinder manometers, one sensing drywell pressure and the other, wetwell pressure (essentially the same pressure since both chambers were vented together through a blocked open vacuum breaker valve). This type of manometer uses an electronic circuit to determine a modal frequency of a cylinder subjected to vacuum on one side and test pressure on the opposite side. The detected frequency varies approximately linearly with pressure. An internal microprocessor is programmed during calibration to convert frequency to true absolute pressure in engineering units. The manometer has a resolution of 0.0001 psi and a stability of 0.001 psi. The stability figure is based on recorded deviations between the indications of 2 manometers over the test duration.

A digital data acquisition system was used to collect drybulb temperature, dewpoint temperature and pressure data, and transferred that data to the ILRT computer over an IEEE-488 (parallel bit transmission) bus. The data system included the conditioning circuitry for the RTD's used to sense drybulb and dewpoint temperatures. RTD resistance was converted to temperature with a 0.006 deg C resolution.

The manometers were supplied with 24 bit (6-digit resolution) BCD output lines. Since data acquisition system resolution is 5 digits, the manometer output was converted into two decimal numbers. The first represented the first 5 digits of the manometer indication. The second represented the 6th digit. These two numbers were combined by the computer program to recreate the 6-digit manometer indication.

Timing was controlled by the data acquisition system, which was set to scan all inputs at 15-minute intervals and send the acquired data to the ILRT computer. The computer used was a small IBM compatible running a compiled BASIC program. The program is described in Appendix II.

Other temporary instrumentation included a thermal mass flowmeter (connected to a containment piping penetration) used to measure imposed leakage during the verification test and two indicators used to measure drywell and wetwell gage pressures. All temporary instrumentation was calibrated to the requirements of Reference 5 prior to the ILRT and performed well during the test.

Permanent plant instrumentation was used to measure reactor vessel and suppression pool water levels (sump level was measured manually before and after the test). The

water level data were used to correct calculated leakage rate for changes in containment water inventory.

4.0 PROCEDURES

4.1 Plant Status

Plant systems were aligned for the ILRT, as specified in Ref. 5, which incorporates both FSAR (Final Safety Analysis Report) and operational requirements. Isolation valves were set in post-accident positions, except where the opposite positions were required to maintain the reactor in a safe shutdown condition and to satisfy operational readiness needs. Piping was vented and drained to expose valve seats to containment and outside atmospheres per FSAR requirements.

Type B and C local leakage rate tests were completed prior to the start of the ILRT. All compressed gas sources were either vented or removed from the containment. Containment fans and lighting were shut off prior to the start of pressurization. One loop of shutdown cooling was in operation throughout the test to remove core decay heat and the second was maintained in standby. The Official Test Copy of Ref. 5 documents plant status, including all exceptions to specified conditions.

4.2 Prerequisite Activities

System lineups, containment cleanup, and ILRT instrument installation were performed over a period of several days prior to the start of pressurization.

After instruments were connected in the containment, these were checked to verify correct response. The drybulb temperature sensors were placed, one at a time, in an ice bath and a data system response of 32 deg F (+/- a tolerance of 1 deg F) was verified. Dewpoint temperature sensor performance was evaluated using an independent instrument. The data system indication and that of the independent instrument were verified to agree to within 5 deg F.

The containment examination specified in Ref. 1 was completed prior to the start of pressurization. No adverse indications were found.

The completion of all prerequisite activities is documented in the Official Test Copy of Ref. 5.

4.3 Pressurization

The containment was pressurized using diesel driven, oil free compressors having an aggregate capacity of 1,800 SCFM. The compressors discharged through a water cooled aftercooler and a desiccant air dryer and thence, through a temporary

connection, into the nitrogen inerting system piping. Cooling water to the aftercooler was provided by a temporary pump submerged in one of the spray ponds. The water was returned to the pond.

Pressurization commenced at 5:05 AM on July 18, but was interrupted a short time later by a half scram signal. The signal was initiated by output from a containment pressure monitor. Responses to monitor output should have been defeated for the ILRT. This was done following an evaluation, and pressurization was resumed at 9:54 AM. The containment was isolated at about 8:30 PM when pressure had reached 38.7 psig.

The increase in pressure with time is illustrated in Figure 1. This plot commences at 9:00 AM on July 18, 45 minutes before the pressurization restart. At this time, pressure was about 16.1 psia (or 1.7 psig) which is the level attained prior to the interruption. The pressure increase follows two linear segments. During the initial segment, from 9:45 AM to 6:30 PM, pressurizing air was provided by two compressors. One compressor was stopped at 6:30 PM to ensure a more controlled approach to final test pressure. Pressurization system piping was vented after the containment was isolated.

During pressurization, piping vents and outside containment pressure boundaries were examined for evidence of isolation valve or other boundary leakage. No significant leakage was detected during this examination.

4.4 Stabilization

The stabilization period mandated by Ref. 5 commenced at 8:45 PM on July 18, and all numerical stabilization criteria specified therein were met within 4 hours (minimum stabilization period duration). However, a preliminary calculation showed the leakage rate to be greater than L_a during the final part of the stabilization period (the rate calculated for the initial phase of stabilization is usually not meaningful). The stabilization period was continued until the source of the excessive leakage had been located and evaluated.

The source of the leakage was located at an instrument tubing connection. The tubing had been disconnected to support an outage task and was not tightened after being reconnected (Reference 6). After an evaluation, the tubing connection was tightened. The stabilization period was continued until it was verified that tightening the fitting had reduced leakage rate to less than 0.375 %/day (0.75 L_a). The stabilization period ended at 3:45 AM and the Type A test started at 4:00 AM on July 19. Stabilization period duration was 7 hours. Temperature variation over the stabilization period is illustrated in Figure 2. Average temperature varied smoothly. The rate of temperature change decreased with time, as is typical.

Table 2 is a stabilization report. This table lists the mean temperatures, temperature changes, and related numbers required to demonstrate stability, as defined by the numerical criteria specified in References 3 and 4 and restated in Ref. 5. These criteria are listed below:

- The rate of change of temperature averaged over the last four hours less the rate of change of temperature averaged over the last hour does not exceed 0.5 deg F/hr (an ANSI/ANS 56.8-1987 criterion).
- The rate of change of temperature averaged over the last two hours does not exceed 1 deg F/hr (a BN-TOP-1 criterion).
- The rate of change of temperature change averaged over the last two hours does not exceed 0.5 deg F/hr (a BN-TOP-1 criterion).

4.5 Type A Test

The Type A test commenced at 4:00 AM on July 19. All of the acceptance criteria for an 8 hour (minimum required duration) test were met by 12:00 noon. However, the UCL on total time leakage rate plus known corrections (for reactor vessel level increase, suppression pool rise and minimum pathway leakage through penetrations not vented/drained) was relatively close to the acceptance limit of 0.375 %/day (0.75 La).

To allow a reasonable margin for sump level correction, it was decided to extend the Type A test to a 12-hour duration. The UCL on leakage rate drops significantly at 12 hours. This is the result of using the Ref. 2 calculational method when test duration is at least 12 hours (and less than 24 hours). For a test duration of less than 12 hours, the more conservative calculational method derived in Ref. 4 must be used to determine the UCL. The Type A test ended at 4:00 PM on July 19.

Containment atmospheric condition data were recorded at 15-minute intervals during the Type A test, as well as during stabilization and the verification test. Suppression pool and reactor vessel levels were recorded hourly to provide the data needed to establish containment water inventory. An increasing inventory is equivalent to a negative leakage and requires a correction to the UCL on leakage rate.

Suppression pool level increased slowly throughout the Type A test. The level change over the Type A test period is equivalent to a correction of 0.010 %/day. Reactor vessel level fluctuated within a narrow range during the test period. Reported level at the end of the Type test was 0.1 inch above that at the beginning. This is equivalent to a correction of 0.002 %/day.

4.6 Verification Test

The leakage rate calculated for the Type A test (L_{am}) is verified by venting air from the containment at a measured rate, L_o , approximately equal to L_a . The calculated composite leakage rate must equal the sum of L_{am} and L_o plus or minus a tolerance of 0.25 L_a . The induced leak, L_o , is measured by venting the air through a flowmeter. A thermal mass flow meter was used.

An induced leak of 4.13 SCFM, equivalent to 0.495 %/day (0.99 La), was initiated at 5:10 PM on July 19. The time between the end of the Type A test and the initiation of the induced leak was used to collect and analyze a containment air sample for radioactive particulates and gasses (a step needed to ensure that the verification flow and final depressurization discharges meet limits on airborne contamination).

The verification test was started at 5:15 PM on July 19, and concluded at 9:15 PM. The duration of the verification test was 4 hours, the minimum required by Ref. 5.

4.7 Depressurization and Restoration

Depressurization commenced at about 12:15 AM on July 20, and was complete at about 8:30 PM on the same day. Figure 3 illustrates the decrease in pressure with time. The containment was depressurized by venting to the Standby Gas Treatment System.

The containment and the various systems and components modified for ILRT performance were restored to normal operational configurations following the completion of depressurization.

5.0 RESULTS

5.1 Corrections

The final as-left leakage rate is the sum of the calculated UCL, the correction for containment water inventory change and the correction for penetrations not isolated by the normal post-accident means (not vented/drained per post-accident scenarios). The computed as-found leakage rate is the as-left rate plus corrections for penetration minimum pathway leakage improvements made during the current outage and prior to the test. These corrections are tabulated below:

Suppression pool level correction:

Level increase over the Type A test period = 0.04 inches
Factor = 432 cubic feet/inch
Water inventory increase = $0.04 \times 432 = 17.3$ cubic feet
Containment free air volume = 343,040 cubic feet
Correction = $17.3/343,040 \times 24 \text{ hr}/12 \text{ hr} \times 100 \% = 0.010 \%/\text{day}$

Reactor vessel level correction:

Level increase over the Type A test period = 0.10 inches
Factor = 26.7 cubic feet/inch
Water inventory increase = $0.10 \times 26.7 = 2.7$ cubic feet
Correction = $2.7/343,040 \times 24 \text{ hr}/12 \text{ hr} \times 100 \% = 0.002 \%/\text{day}$

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Sump correction:

Level increase between measurements = 2.5 inches
Factor = 26.8 cubic feet/inch
Water inventory increase = $2.5 \times 26.8 = 67.0$ cubic feet
Time for increase > 72 hours. Use 24 hours for conservatism.
Correction = $67.0/343,040 \times 24 \text{ hr}/24 \text{ hr} \times 100\% = 0.020 \text{ \%/day}$

Correction for penetrations not vented/drained:

Sum of minimum pathway leakages (per Ref. 5) = 0.011 %/day

Total as-left correction (sum of the above) = 0.043 %/day

Correction for penetration minimum pathway leakage improvements:

Sum of minimum pathway improvements (see p. 147) = 0.028 %/day

As-found correction = as-left correction plus minimum pathway improvements = $0.043 \text{ \%/day} + 0.028 \text{ \%/day} = 0.071 \text{ \%/day}$

5.2 As-Left Leakage Rate

The results of the Type A test are listed below:

Calculated total time leakage rate	0.242 %/day
95 % UCL on total time leakage rate	0.259 %/day
Corrections per 5.1	0.043 %/day
Final as-left leakage rate (UCL)	0.302 %/day
Acceptance limit on the above as-left rate	0.375 %/day

The acceptance limit is 75% of the maximum allowable leakage rate (La) of 0.5 %/day set forth in the Technical Specifications.

Complete total time calculations are documented in Table 3 and plotted in Figure 4. As noted above, the UCL drops significantly between the 3:45 PM and 4:00 PM entries. This results from the change in the calculational method at a 12 hour test duration. For durations less than 12 hours, the conservative BN-TOP-1 (Ref. 4) method is used to determine UCL. For durations of 12 hours and longer, the total time calculation follows the guidelines of ANSI N45.4 (Ref. 2). The FSAR identifies duration and calculational requirements.

Containment conditions during the Type A test were reasonably typical. Air mass, mean temperature, total pressure, and mean vapor pressure are plotted on Figures 5, 6, 7, and 8, respectively.

Air mass follows a generally linear trend with a negative slope, as expected. Containment mean temperature decreases throughout most of the test period, then remains essentially constant for several hours and finally starts to trend up. The pressure trend is similar to that of temperature, but pressure drops more on a percentage basis due to leakage.

Vapor pressure, which is plotted in Figure 8, varies almost linearly with time and increased 0.020 psi over the course of the test. This increase is due largely to evaporation suppression pool water and is reasonable for a BWR containment.

The leakage rates listed in Table 3, as well as in Tables 4 and 5, are stated to four significant figures. The fourth figure is not considered to be meaningful. For this reason, rates restated in the text of this report are rounded off to three significant figures.

5.3 As-Found Leakage Rate

The leakage rate, which would have been found if the test had been conducted at the beginning of the outage and prior to isolation valve repairs, can be estimated by summing the Type A test UCL and the as-found correction developed in 5.1. The as-found leakage rate is calculated below:

Type A test total time UCL	0.259 %/day
Correction	0.071 %/day
As-found leakage rate	0.330 %/day

5.4 Verification Test

The verification test induced leak was imposed after the completion of the Type A test (and following collection and analysis of a containment air sample) and adjusted to a flowmeter indication of 4.13 SCFM. At the pressure and temperature conditions listed for the end of the Type A test (52.91 psia and 544.1 deg R), this is equivalent to a leakage rate of 0.495 %/day. Test duration was four hours, which is the minimum required by Ref. 5. Results are listed in Table 4 and summarized below:

Upper limit on total time calculated leakage rate	0.862 %/day
Total time calculated leakage rate	0.666 %/day
Lower limit on total time calculated leakage rate	0.612 %/day

The calculated rate is within the acceptance band, which is the sum of Type A test total time rate (0.242 %/day) and the induced rate (0.495 %/day) plus or minus 0.125 %/day (0.25 La). Figure 9 illustrates the verification test results graphically.

5.5 Mass Point Results

The ANSI/ANS 56.8 (Ref. 3) mass point method was used, in addition to the total time method, to calculate leakage rates and UCL's. The mass point leakage rates (Type A and verification tests) are shown for information in Table 5 and 6. The variations in mass point rate and UCL over the Type A test period are illustrated graphically in Figure 10.

The end of test mass point calculated leakage rate, 0.221 %/day, is reasonably close to the total time rate of 0.242 %/day, as expected. The mass point UCL of 0.225 %/day is quite close to the calculated rate as is expected for well ordered test data. The spread between the total time rate and the total time UCL is considerably greater than the mass point spread. This is normal and is the result of the basis for the total time calculation.

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6.0 REFERENCES

1. Code of Federal Regulations, Title 10, Part 50, Appendix J, Reactor Containment Leakage Testing For Water Cooled Power Reactors.
2. ANSI N45.4-1972, Leakage Rate Testing Of Containment Structures For Nuclear Reactors.
3. ANSI/ANS 56.8-1987, Containment System Leakage Testing Requirements.
4. Bechtel Topical Report BN-TOP-1, Testing Criteria For Integrated Leakage Rate Testing Of Primary Containment Structures For Nuclear Power Plants, Revision 1, 1972.
5. Washington Public Power Supply System, Plant 2, Surveillance Test Procedure 7.4.6.1.2.1, Integrated Leakage Rate Test, Revision 4.
6. Washington Public Power Supply System, Plant 2, Problem Evaluation Report 294-0721.
7. Exemption to Appendix J Testing, issued by NRC with Amendment No.41 to Operating License NPF-2, dated April 29, 1987.

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TABLE 1
SENSOR LOCATIONS AND WEIGHTING FACTORS

Sensor	Elevation, Feet	Distance from Ctmt Wall, Feet	Bearing, Degrees	Weighting Factor
Drywell RTD's				
TE-01	574(1)	6	090(1)	0.020
TE-02	545	10	240	0.039
TE-03	590(2)	3	180	0.040
TE-04	507	16	120	0.055
TE-05	554	10	120	0.039
TE-06	511	16	005	0.055
TE-07	532	15	040	0.046
TE-08	516	15	250	0.046
TE-09	521	15	180	0.046
TE-10	563	10	000	0.039
TE-11	570	6	270	0.020
TE-12	527	15	110	0.046
TE-13	538	15	325	0.046
TE-14	503	16	240	0.055
Wetwell RTD's				
TE-15	485	5	270	0.102
TE-16	485	5	195	0.102
TE-17	485	5	000	0.102
TE-18	485	5	090	0.102
Drywell Dew Cells				
ME-01	525	10	125	0.115
ME-02	550	10	090	0.197
ME-03	505	16	240	0.165
ME-04	525	15	005	0.115
Wetwell Dew Cells				
ME-05	485	5	270	0.204
ME-06	485	5	090	0.204

- Notes: 1. Elevations are referenced to mean sea level. Bearings are referenced to plant North.
2. RTD TE-03 located in the drywell head space.

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TABLE 2
TEMPERATURE STABILIZATION REPORT

(* stabilization criterion satisfied)

data set	elapsed time, hr	temperature T, deg F	dT1 avg dT (1 hr)	dT4 avg dT (4 hr)	- ANSI - dT1-dT4	--- BN-TOP-1---	
						dT or avg (2 hr)	d(dT) avg (2 hr)
1	0.00	85.741					
2	0.25	85.487					
3	0.50	85.387					
4	0.75	85.326					
5	1.00	85.273	-0.468				
6	1.25	85.228	-0.258				
7	1.50	85.203	-0.184				
8	1.75	85.169	-0.158				
9	2.00	85.120	-0.153			-0.310*	0.412*
10	2.25	85.094	-0.134			-0.196*	0.148*
11	2.50	85.069	-0.134			-0.159*	0.070*
12	2.75	85.049	-0.120			-0.139*	0.067*
13	3.00	85.020	-0.100			-0.127*	0.031*
14	3.25	84.995	-0.099			-0.117*	0.001*
15	3.50	84.969	-0.100			-0.117*	0.016*
16	3.75	84.936	-0.113			-0.117*	0.030*
17	4.00	84.914	-0.106	-0.207	0.101*	-0.103*	0.009*
18	4.25	84.895	-0.100	-0.148	0.048*	-0.100*	0.012*
19	4.50	84.866	-0.103	-0.130	0.027*	-0.101*	-0.018*
20	4.75	84.844	-0.091	-0.121	0.029*	-0.102*	0.014*
21	5.00	84.824	-0.091	-0.112	0.022*	-0.098*	0.008*
22	5.25	84.789	-0.106	-0.110	0.004*	-0.103*	-0.016*
23	5.50	84.774	-0.092	-0.107	0.015*	-0.098*	0.036*
24	5.75	84.755	-0.089	-0.103	0.014*	-0.090*	0.005*
25	6.00	84.730	-0.093	-0.097	0.004*	-0.092*	-0.011*
26	6.25	84.704	-0.085	-0.098	0.012*	-0.096*	0.005*
27	6.50	84.679	-0.095	-0.098	0.003*	-0.094*	-0.007*
28	6.75	84.666	-0.089	-0.096	0.007*	-0.089*	0.015*
29	7.00	84.651	-0.080	-0.092	0.013*	-0.086*	0.039*

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TABLE 3
TOTAL TIME LEAKAGE RATE REPORT

data set	time	date	elapsed time hr	dry air mass lbm	measured rate %/day	calculated rate %/day	ucl %/day
4	445	719	0.75	89520.05	0.0767	0.0706	0.2155
5	500	719	1.00	89518.42	0.1014	0.0809	0.2238
6	515	719	1.25	89517.66	0.0973	0.0840	0.1857
7	530	719	1.50	89512.17	0.1792	0.1289	0.2735
8	545	719	1.75	89510.42	0.1804	0.1554	0.2827
9	600	719	2.00	89507.83	0.1926	0.1766	0.2886
10	615	719	2.25	89504.45	0.2115	0.1973	0.2981
11	630	719	2.50	89501.31	0.2239	0.2154	0.3069
12	645	719	2.75	89499.14	0.2248	0.2281	0.3120
13	700	719	3.00	89496.91	0.2260	0.2374	0.3159
14	715	719	3.25	89493.57	0.2361	0.2468	0.3208
15	730	719	3.50	89490.92	0.2396	0.2546	0.3253
16	745	719	3.75	89487.24	0.2499	0.2628	0.3305
17	800	719	4.00	89486.31	0.2405	0.2670	0.3342
18	815	719	4.25	89484.36	0.2386	0.2697	0.3373
19	830	719	4.50	89483.54	0.2303	0.2699	0.3397
20	845	719	4.75	89478.45	0.2469	0.2731	0.3422
21	900	719	5.00	89478.09	0.2365	0.2737	0.3439
22	915	719	5.25	89476.68	0.2324	0.2733	0.3450
23	930	719	5.50	89473.37	0.2380	0.2737	0.3459
24	945	719	5.75	89472.43	0.2321	0.2730	0.3464
25	1000	719	6.00	89472.08	0.2239	0.2709	0.3463
26	1015	719	6.25	89469.73	0.2251	0.2692	0.3458
27	1030	719	6.50	89468.15	0.2229	0.2673	0.3451
28	1045	719	6.75	89466.41	0.2216	0.2654	0.3440
29	1100	719	7.00	89463.72	0.2240	0.2640	0.3430
30	1115	719	7.25	89461.55	0.2243	0.2626	0.3418
31	1130	719	7.50	89460.19	0.2216	0.2611	0.3404
32	1145	719	7.75	89459.24	0.2178	0.2592	0.3389
33	1200	719	8.00	89457.29	0.2175	0.2574	0.3373
34	1215	719	8.25	89454.90	0.2187	0.2558	0.3357
35	1230	719	8.50	89452.81	0.2188	0.2544	0.3341
36	1245	719	8.75	89450.67	0.2191	0.2531	0.3326
37	1300	719	9.00	89449.36	0.2170	0.2517	0.3309
38	1315	719	9.25	89444.71	0.2246	0.2512	0.3297
39	1330	719	9.50	89442.42	0.2251	0.2507	0.3286
40	1345	719	9.75	89441.17	0.2228	0.2501	0.3274
41	1400	719	10.00	89437.94	0.2259	0.2497	0.3263

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TABLE 3 (cont.)

TOTAL TIME LEAKAGE RATE REPORT

data set	time	date	elapsed time hr	dry air mass lbm	measured rate %/day	calculated rate %/day	ucl %/day
42	1415	719	10.25	89437.17	0.2224	0.2490	0.3251
43	1430	719	10.50	89437.28	0.2168	0.2479	0.3237
44	1445	719	10.75	89435.05	0.2173	0.2469	0.3223
45	1500	719	11.00	89432.09	0.2196	0.2461	0.3210
46	1515	719	11.25	89429.20	0.2216	0.2455	0.3199
47	1530	719	11.50	89430.39	0.2140	0.2443	0.3184
48	1545	719	11.75	89429.59	0.2113	0.2430	0.3169
49	1600	719	12.00	89427.93	0.2106	0.2417	0.2585

Calculated Leakage Rate = 0.2417 %/day
UCL = 0.2585 %/day
0.75 La = 0.3750 %/day

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TABLE 4
VERIFICATION TEST REPORT

data set	time	date	elapsed time (hrs)	dry air mass (lbm)	measured rate (%/day)	leakage rate (%/day)
1	1715	719	0.00	89414.03	0.0000	0.0000
2	1730	719	0.25	89408.84	0.5574	0.5574
3	1745	719	0.50	89402.85	0.5999	0.5999
4	1800	719	0.75	89396.34	0.6330	0.6346
5	1815	719	1.00	89389.27	0.6645	0.6668
6	1830	719	1.25	89384.57	0.6327	0.6605
7	1845	719	1.50	89377.30	0.6572	0.6690
8	1900	719	1.75	89371.36	0.6545	0.6719
9	1915	719	2.00	89364.74	0.6615	0.6760
10	1930	719	2.25	89359.75	0.6475	0.6730
11	1945	719	2.50	89353.66	0.6481	0.6707
12	2000	719	2.75	89346.41	0.6600	0.6726
13	2015	719	3.00	89341.33	0.6505	0.6710
14	2030	719	3.25	89334.53	0.6565	0.6713
15	2045	719	3.50	89329.90	0.6452	0.6684
16	2100	719	3.75	89322.96	0.6518	0.6676
17	2115	719	4.00	89317.62	0.6469	0.6658

Upper limit on leakage rate = 0.8620 %/day
Total time leakage rate = 0.6658 %/day
Lower limit on leakage rate = 0.6120 %/day

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TABLE 5

MASS POINT LEAKAGE RATE REPORT

data set	time	date	elapsed time hr	dry air mass lbm	calculated rate %/day	ucl %/day
4	445	719	0.75	89520.05	0.0731	0.1305
5	500	719	1.00	89518.42	0.0890	0.1232
6	515	719	1.25	89517.66	0.0924	0.1131
7	530	719	1.50	89512.17	0.1468	0.2115
8	545	719	1.75	89510.42	0.1728	0.2277
9	600	719	2.00	89507.83	0.1920	0.2385
10	615	719	2.25	89504.45	0.2111	0.2528
11	630	719	2.50	89501.31	0.2271	0.2648
12	645	719	2.75	89499.14	0.2366	0.2692
13	700	719	3.00	89496.91	0.2425	0.2704
14	715	719	3.25	89493.57	0.2494	0.2742
15	730	719	3.50	89490.92	0.2548	0.2769
16	745	719	3.75	89487.24	0.2615	0.2819
17	800	719	4.00	89486.31	0.2630	0.2809
18	815	719	4.25	89484.36	0.2630	0.2788
19	830	719	4.50	89483.54	0.2603	0.2747
20	845	719	4.75	89478.45	0.2624	0.2754
21	900	719	5.00	89478.09	0.2610	0.2729
22	915	719	5.25	89476.68	0.2587	0.2697
23	930	719	5.50	89473.37	0.2580	0.2680
24	945	719	5.75	89472.43	0.2559	0.2653
25	1000	719	6.00	89472.08	0.2522	0.2616
26	1015	719	6.25	89469.73	0.2493	0.2584
27	1030	719	6.50	89468.15	0.2464	0.2553
28	1045	719	6.75	89466.41	0.2436	0.2523
29	1100	719	7.00	89463.72	0.2416	0.2500
30	1115	719	7.25	89461.55	0.2400	0.2479
31	1130	719	7.50	89460.19	0.2381	0.2457
32	1145	719	7.75	89459.24	0.2358	0.2433
33	1200	719	8.00	89457.29	0.2337	0.2410
34	1215	719	8.25	89454.90	0.2321	0.2391
35	1230	719	8.50	89452.81	0.2307	0.2375
36	1245	719	8.75	89450.67	0.2295	0.2360
37	1300	719	9.00	89449.36	0.2281	0.2344
38	1315	719	9.25	89444.71	0.2280	0.2340
39	1330	719	9.50	89442.42	0.2280	0.2337
40	1345	719	9.75	89441.17	0.2277	0.2330
41	1400	719	10.00	89437.94	0.2278	0.2329
42	1415	719	10.25	89437.17	0.2274	0.2323

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TABLE 5 (cont.)

MASS POINT LEAKAGE RATE REPORT

data set	time	date	elapsed time hr	dry air mass lbm	calculated rate %/day	ucl %/day
43	1430	719	10.50	89437.28	0.2263	0.2311
44	1445	719	10.75	89435.05	0.2254	0.2300
45	1500	719	11.00	89432.09	0.2249	0.2293
46	1515	719	11.25	89429.20	0.2247	0.2289
47	1530	719	11.50	89430.39	0.2235	0.2278
48	1545	719	11.75	89429.59	0.2222	0.2264
49	1600	719	12.00	89427.93	0.2209	0.2252

Calculated Leakage Rate = 0.2209 %/day
UCL = 0.2252 %/day
0.75 La = 0.3750 %/day

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TABLE 6

MASS POINT VERIFICATION TEST REPORT

data set	time	date	elapsed time (hrs)	dry air mass (lbm)	leakage rate (%/day)
1	1715	719	0.00	89414.03	0.0000
2	1730	719	0.25	89408.84	0.5574
3	1745	719	0.50	89402.85	0.5999
4	1800	719	0.75	89396.34	0.6339
5	1815	719	1.00	89389.27	0.6657
6	1830	719	1.25	89384.57	0.6519
7	1845	719	1.50	89377.30	0.6607
8	1900	719	1.75	89371.36	0.6625
9	1915	719	2.00	89364.74	0.6665
10	1930	719	2.25	89359.75	0.6614
11	1945	719	2.50	89353.66	0.6583
12	2000	719	2.75	89346.41	0.6611
13	2015	719	3.00	89341.33	0.6590
14	2030	719	3.25	89334.53	0.6597
15	2045	719	3.50	89329.90	0.6561
16	2100	719	3.75	89322.96	0.6557
17	2115	719	4.00	89317.62	0.6537

Upper limit on leakage rate = 0.8410 %/day
Mass point leakage rate = 0.6537 %/day
Lower limit on leakage rate = 0.5910 %/day

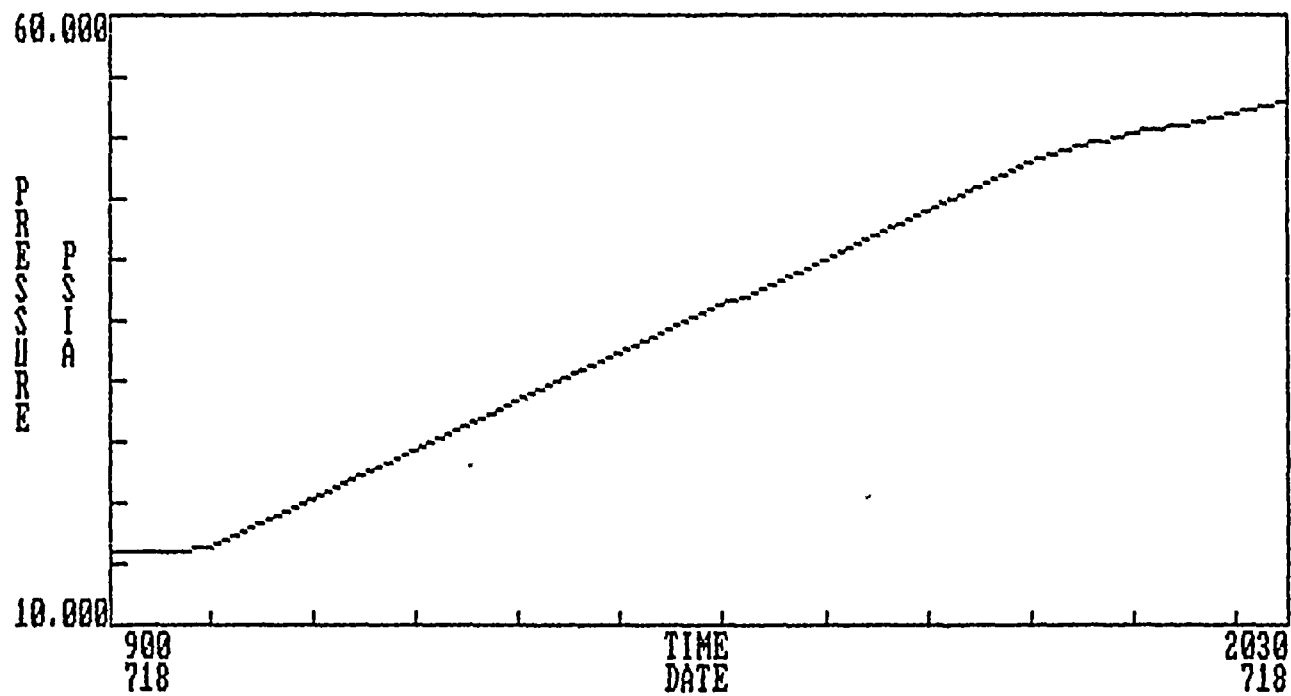


Figure 1

Containment Pressure vs. Time -- Pressurization

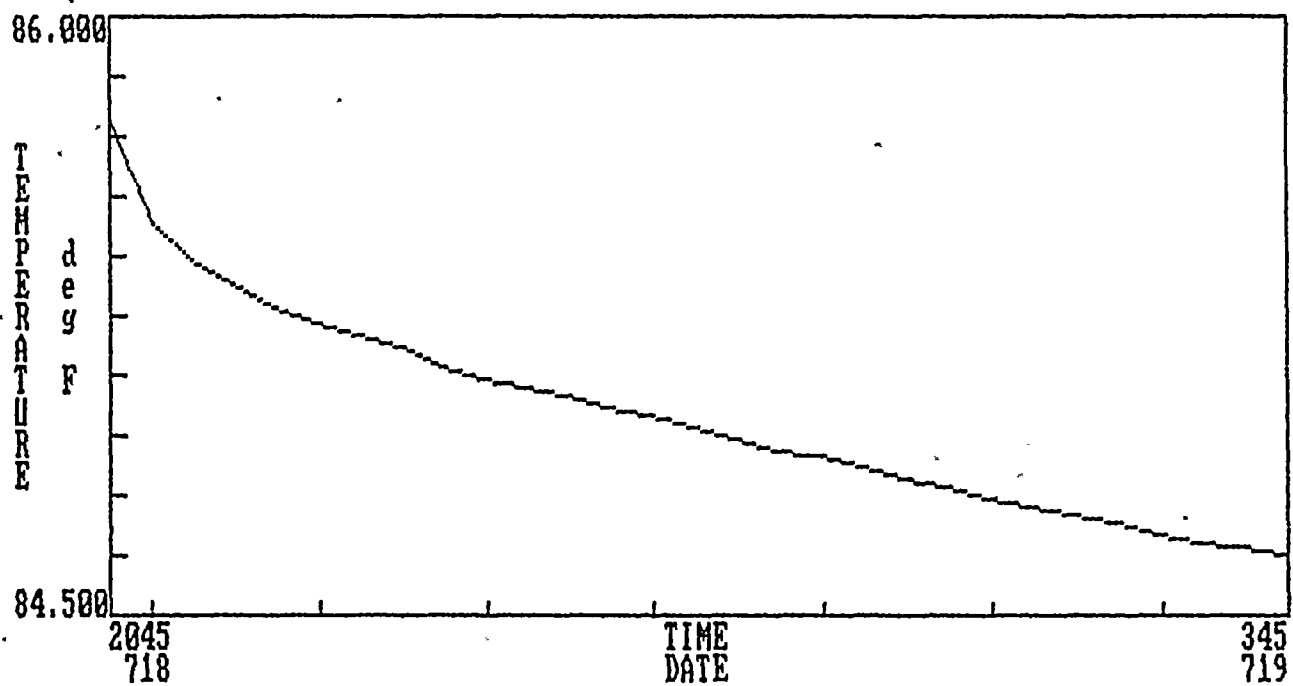


Figure 2

Temperature vs. Time -- Stabilization

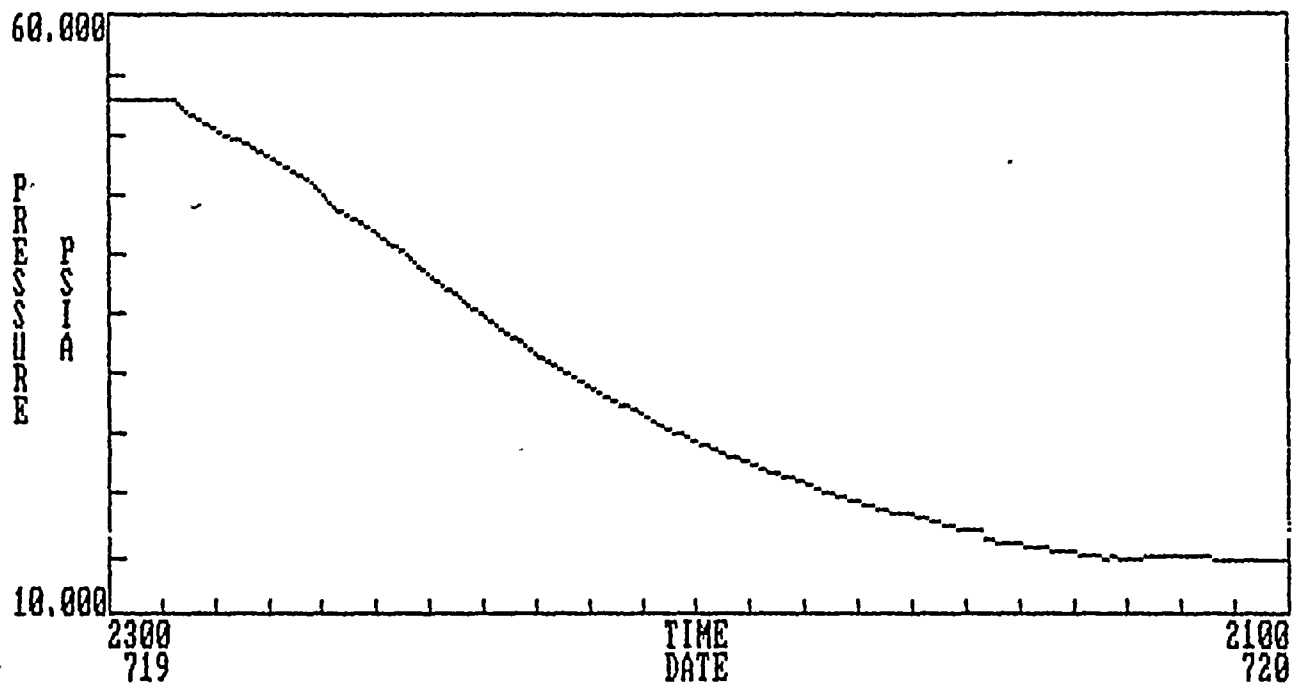


Figure 3

Pressure vs. Time - Depressurization

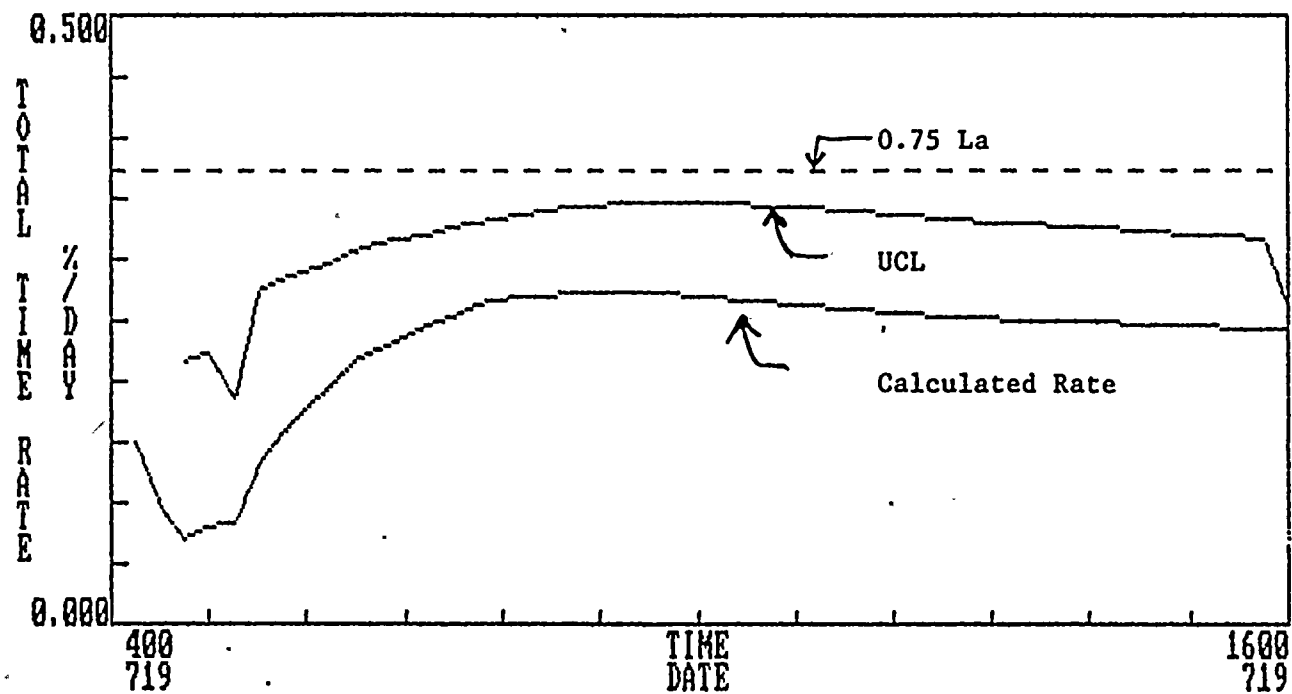


Figure 4

Total Time Leakage Rate vs. Time -- Type A Test

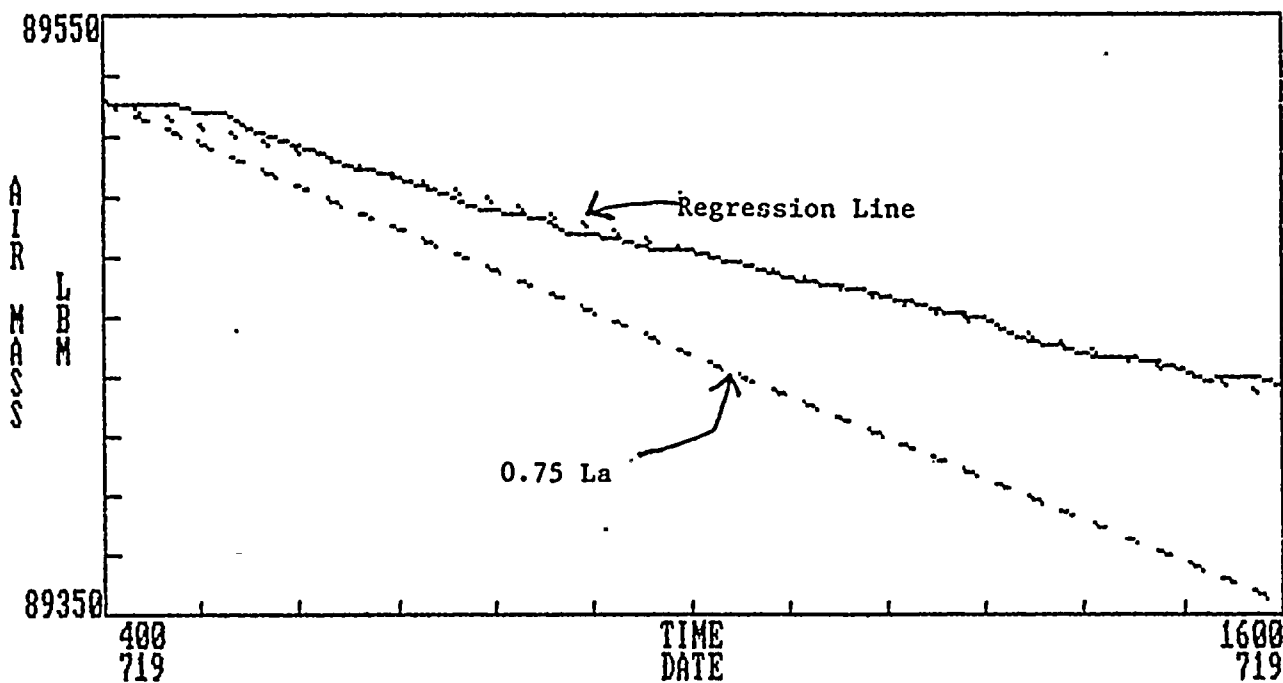


Figure 5

Air Mass vs. Time -- Type A Test

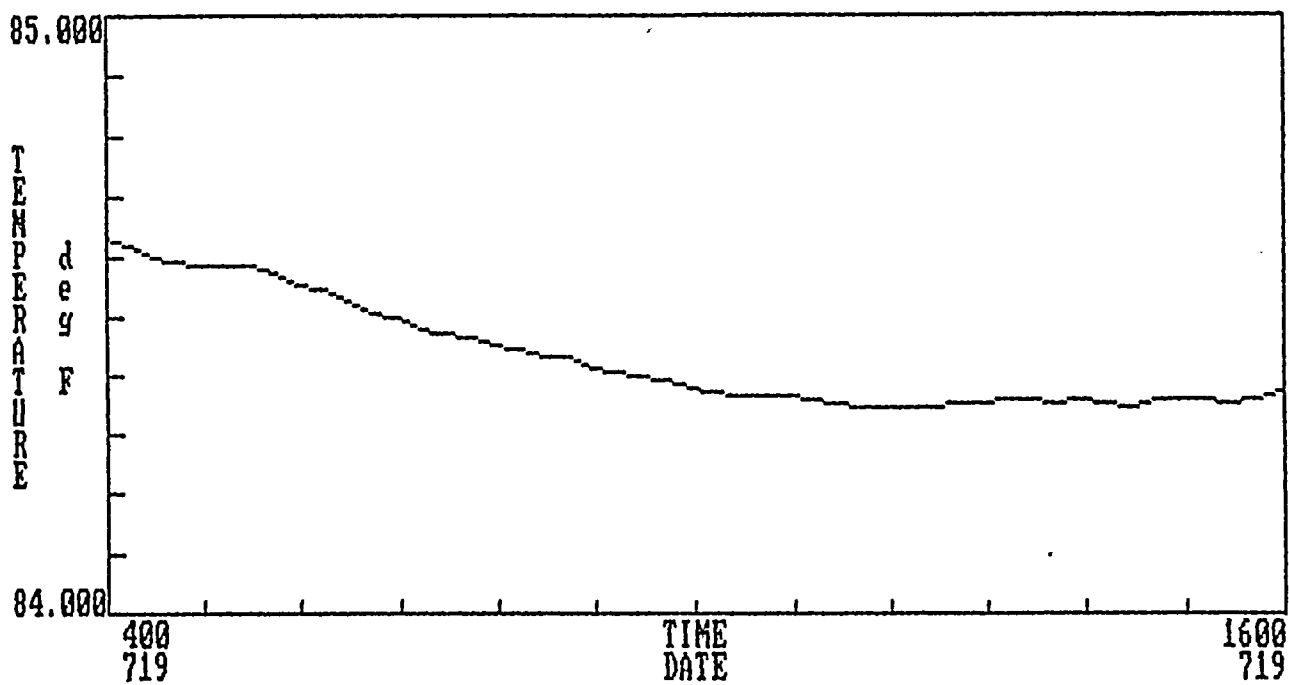


Figure 6

Mean Temperature vs. Time -- Type A Test

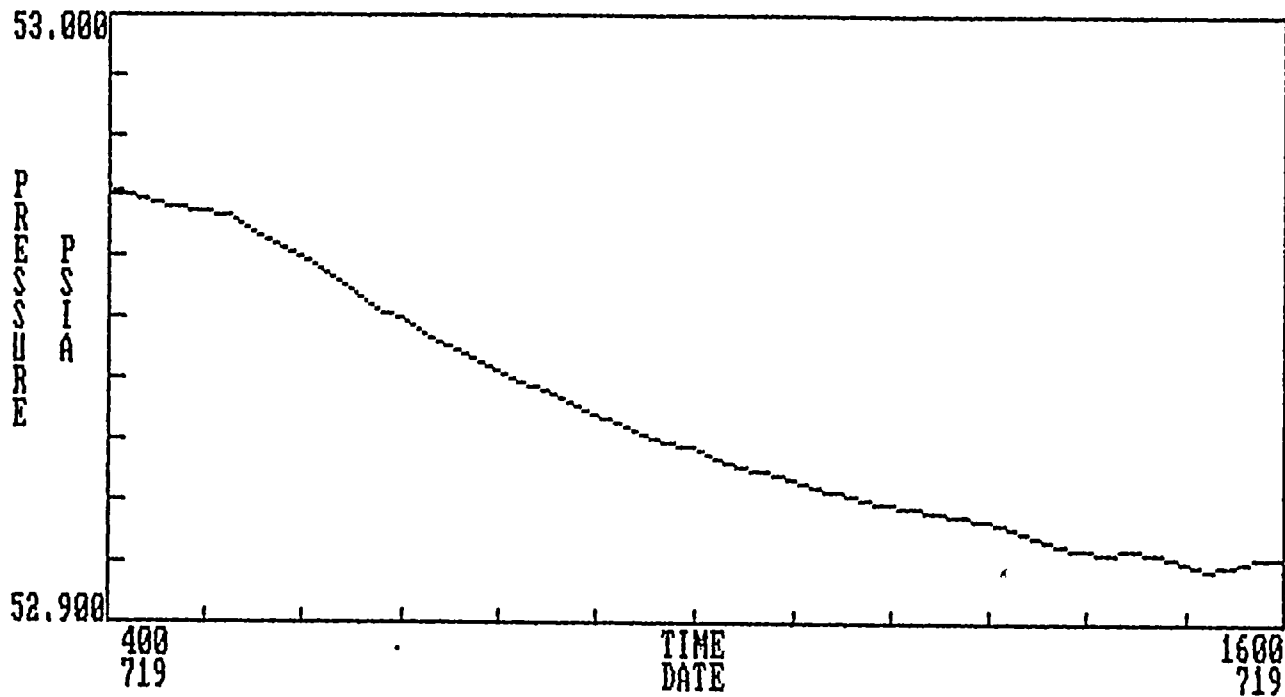


Figure 7

Total Pressure vs. Time -- Type A Test

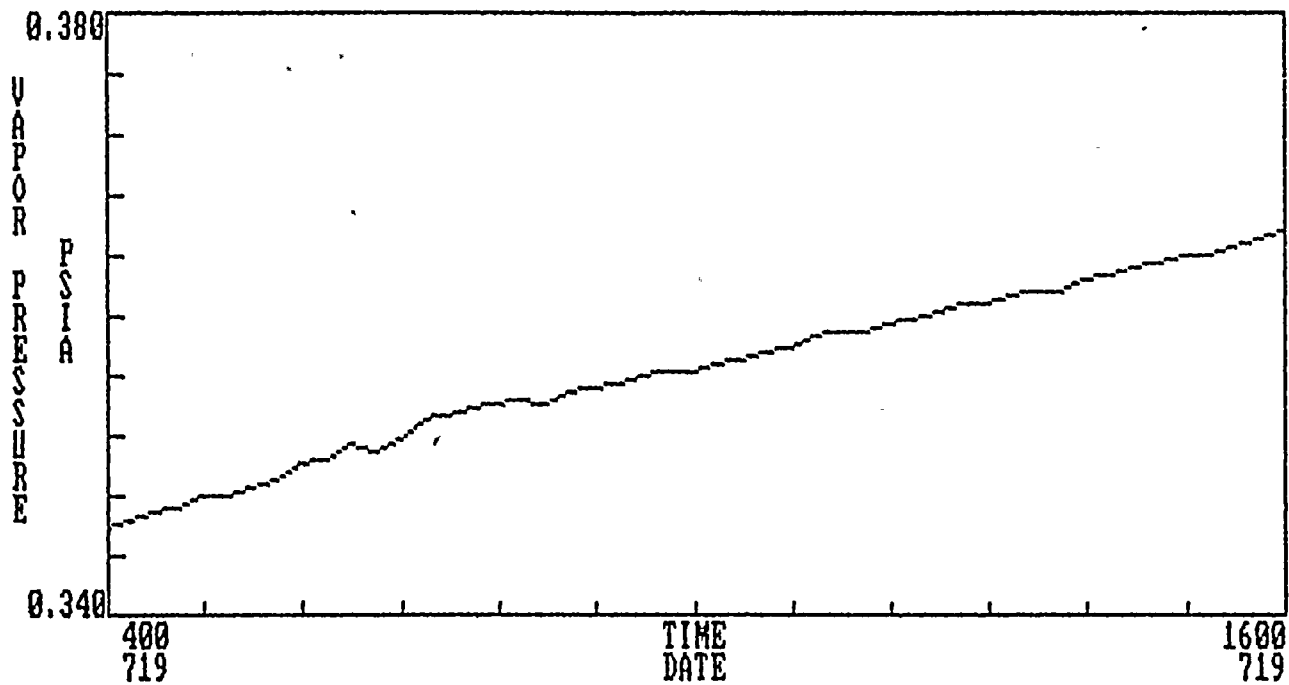


Figure 8

Vapor Pressure vs. Time -- Type A Test

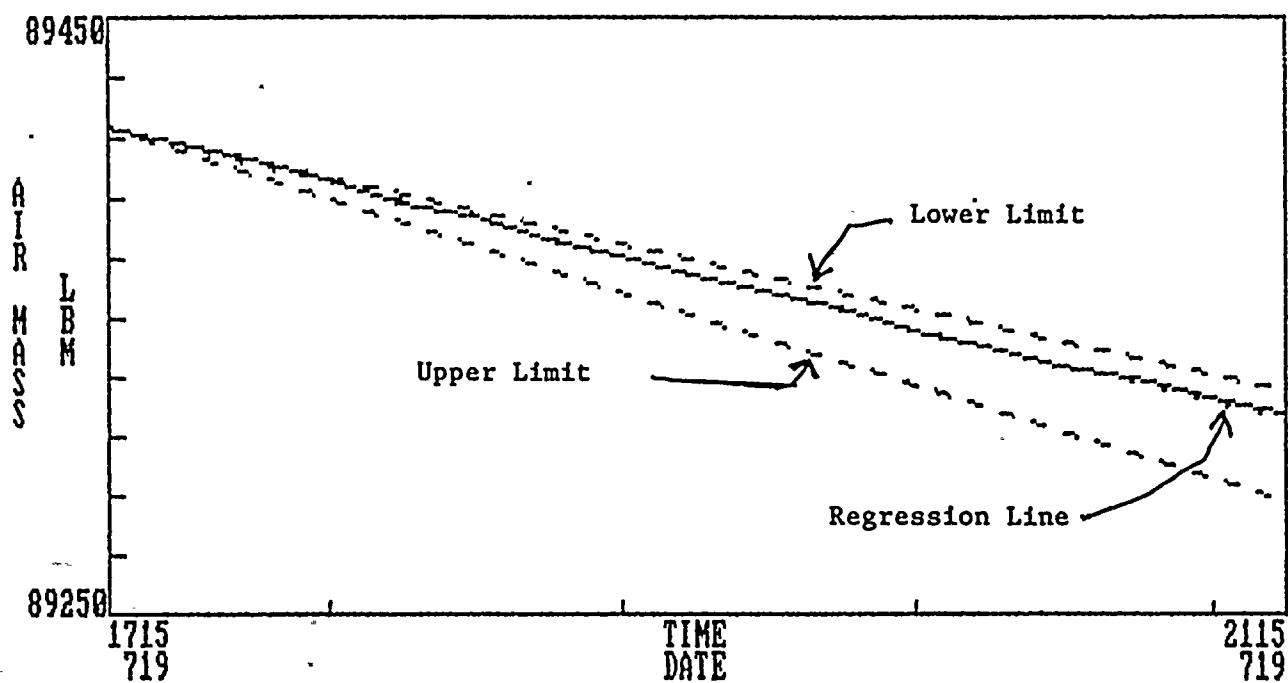


Figure 9

Air Mass vs. Time -- Verification Test

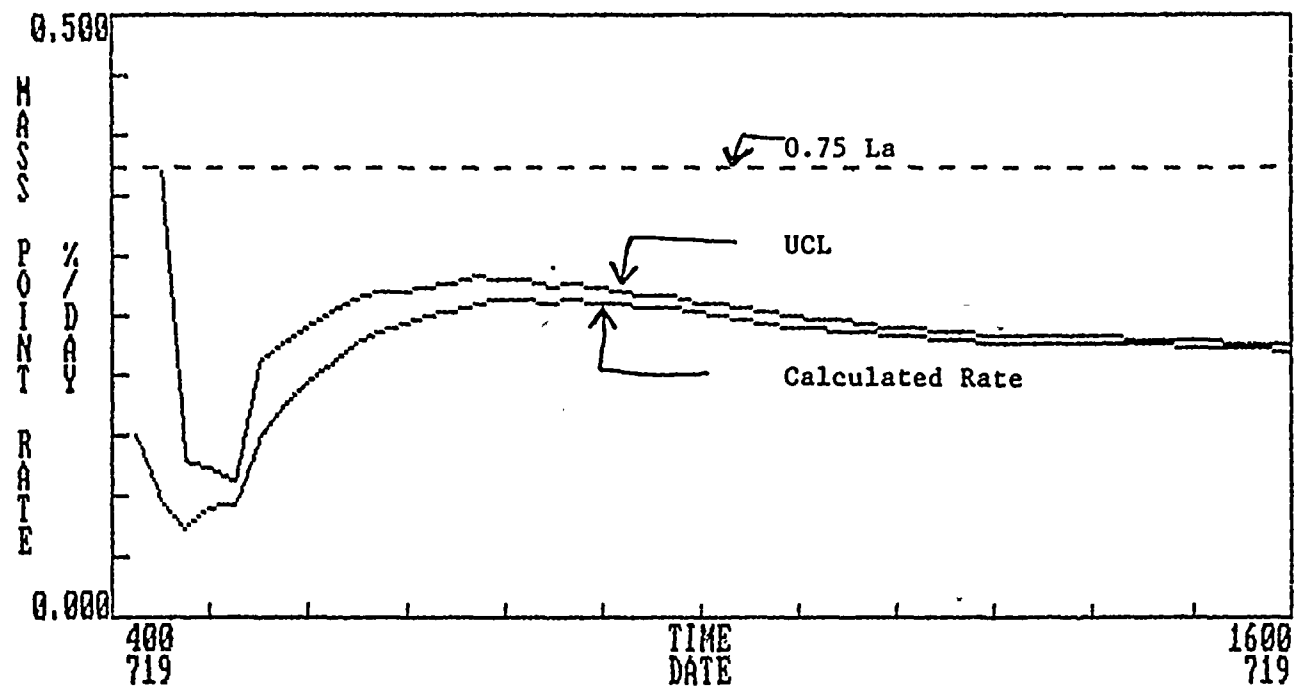


Figure 10

Mass Point Leakage Rate vs. Time -- Type A Test

APPENDIX I
CONTAINMENT DESCRIPTION

APPENDIX I

CONTAINMENT DESCRIPTION

The WNP-2 containment is a steel Mark II structure with an upper conical drywell and a lower cylindrical wetwell. The drywell and wetwell are separated by a concrete slab which is supported at its inner edge by the reactor vessel pedestal. The outer edge of the slab is supported by columns. The top of the slab is covered by a steel liner which is tied to the containment shell by a flexible steel seal.

The top of the drywell is closed by a cylindrical/elliptical head which is removed for refueling of the reactor. The bottom of the wetwell is elliptical. The wetwell is maintained approximately half full of water. The drywell is connected to the wetwell through numerous vertical vent pipes which terminate below the water surface. Several of these vertical vents are provided with vacuum breakers which maintain wetwell pressure at or above that in the drywell. During the ILRT, equal pressures were ensured by blocking open one vacuum breaker.

There are numerous penetrations through both the drywell and wetwell walls. These penetrations, which are sealed by isolation valves, gasket covers and welded caps (spares), provide access for personnel and equipment as well as feedthrough for piping and electrical conductors.

Principal dimensions (in feet) of the containment are listed below:

Wetwell Inside Radius	42.9 ft
Elevation, Top of Wetwell Fill Concrete	435.2 ft
Elevation, Nominal Wetwell Water Surface	466.4 ft
Elevation, Cylinder/Cone Transition	492.9 ft
Elevation, Top of Slab between Wetwell and Drywell	499.5 ft
Slab Thickness	2.0 ft
Elevation, Drywell Head Flange Parting	583.1 ft
Drywell Head Inside Radius	15.8 ft
Elevation, Top of Drywell Head	598.7 ft
Wetwell Free Air Volume	143,634 cubic ft
Drywell Free Air Volume	199,406 cubic ft

APPENDIX II

COMPUTER PROGRAM DISCUSSION

APPENDIX II

COMPUTER HARDWARE AND SOFTWARE

BCP's Leakage Rate BASIC Program, developed by Robert E. Blum, runs on an IBM PC or compatible computer that interfaces with the data acquisition system (DAS) via an RS-232C or IEEE-488 serial data bus. BCP provides two computers, with the second serving as a backup unit.

The program calculates both mass point (ANSI 56.8) and total time (BN-TOP-1) leakage rates. A 95% upper confidence limit (UCL) for the measured total-time leakage rate is determined using the BN-TOP-1 if the test duration is less than 24 hours. This procedure is generally required by the NRC if test duration is less than the 24-hour minimum established in ANSI 45.4. However, if the test is 24 hours or longer, then a 95% UCL is determined using a procedure similar to that described in ANSI 56.8.

Raw data from the DAS are automatically stored on disk. The ILRT program converts raw data to engineering units and calculates the volume-weighted mean drybulb temperature, vapor pressures from individual dew point temperatures, and volume-weighted mean vapor pressure.

The program then computes containment air mass using these weighted mean atmospheric conditions. Air mass and time data are used as input for the routines that calculate mass point and total time leakage rates. Manual data entry and correction options are included in the program so that failure of the DAS serial output will not delay the test.

Job-specific predata loaded into the program include pressure transducer calibration constants, sensor volume fractions, and containment free-air volume. The volume fraction and free-air volume data can be changed during the test to compensate for sensor failure and changes in containment water inventory.

Program output includes printed reports and plots. Printed reports listing raw data, engineering unit conversions, weighted mean conditions, and air mass are generated for each data set immediately following data input. Diagnostic reports and plots are generated on command during the test. These include listings of leakage rates and UCLs calculated for each incremental data set, plots of this information, plots of weighted mean atmospheric conditions and air mass, and plots of individual sensor data. These lists and plots, when generated after the test, provide final documentation of leakage rate.

The program is validated prior to each use by loading a standard test data set and verifying that the calculation results agree with those obtained by a manual calculation.

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APPENDIX III
TYPE A TEST DATA

PRE-DATA REPORT

title = WNP2 1994 ILRT -- Stabilization

volume = 343040 La = 0.5000
leap year : no

temperature volume fractions (sum = 1.0000)

t(1)=0.0200	t(2)=0.0390	t(3)=0.0400	t(4)=0.0550	t(5)=0.0390
t(6)=0.0550	t(7)=0.0460	t(8)=0.0460	t(9)=0.0460	t(10)=0.0390
t(11)=0.0200	t(12)=0.0460	t(13)=0.0460	t(14)=0.0550	t(15)=0.1020
t(16)=0.1020	t(17)=0.1020	t(18)=0.1020		

dewpoint volume fractions (sum = 1.0000)

dp(1)=0.1150 dp(2)=0.1970 dp(3)=0.1650 dp(4)=0.1150 dp(5)=0.2040
dp(6)=0.2040

pressure volume fractions (sum = 1.0000)

p(1)=1.0000 p(2)=0.0000

WNP2 1994 ILRT -- Stabilization

DATA SUMMARY REPORT

data set	time	date	temperature deg F	pressure psia	vapor pressure psia	dry air mass lbm
1	2045	718	85.7411	53.1261	0.3188	89648.46
2	2100	718	85.4868	53.1065	0.3250	89646.44
3	2115	718	85.3869	53.0960	0.3263	89642.88
4	2130	718	85.3264	53.0882	0.3278	89637.05
5	2145	718	85.2729	53.0806	0.3282	89632.24
6	2200	718	85.2285	53.0747	0.3298	89626.80
7	2215	718	85.2032	53.0678	0.3299	89618.94
8	2230	718	85.1688	53.0619	0.3310	89612.81
9	2245	718	85.1204	53.0579	0.3318	89612.58
10	2300	718	85.0943	53.0517	0.3323	89605.54
11	2315	718	85.0689	53.0472	0.3333	89600.24
12	2330	718	85.0489	53.0433	0.3338	89596.12
13	2345	718	85.0199	53.0380	0.3347	89590.40
14	0	719	84.9954	53.0311	0.3356	89581.15
15	15	719	84.9692	53.0256	0.3361	89575.27
16	30	719	84.9357	53.0214	0.3368	89572.43
17	45	719	84.9143	53.0166	0.3375	89566.60
18	100	719	84.8951	53.0117	0.3381	89560.40
19	115	719	84.8661	53.0066	0.3389	89555.21
20	130	719	84.8443	53.0017	0.3390	89550.21
21	145	719	84.8236	52.9988	0.3397	89547.50
22	200	719	84.7892	52.9952	0.3406	89545.43
23	215	719	84.7736	52.9929	0.3414	89542.82
24	230	719	84.7548	52.9893	0.3418	89539.08
25	245	719	84.7304	52.9847	0.3424	89534.24
26	300	719	84.7038	52.9819	0.3427	89533.29
27	315	719	84.6787	52.9802	0.3441	89532.18
28	330	719	84.6658	52.9781	0.3447	89529.77
29	345	719	84.6507	52.9741	0.3453	89524.42

WNP2 1994 ILRT -- Stabilization

data set 1

time = 2045 date = 718

sensor		raw data		value	
temperature	1	(107.360)	=	107.360 deg. F	
temperature	2	(92.620)	=	92.620 deg. F	
temperature	3	(107.040)	=	107.040 deg. F	
temperature	4	(83.920)	=	83.920 deg. F	
temperature	5	(98.610)	=	98.610 deg. F	
temperature	6	(84.400)	=	84.400 deg. F	
temperature	7	(87.610)	=	87.610 deg. F	
temperature	8	(85.490)	=	85.490 deg. F	
temperature	9	(86.700)	=	86.700 deg. F	
temperature	10	(101.950)	=	101.950 deg. F	
temperature	11	(103.420)	=	103.420 deg. F	
temperature	12	(86.930)	=	86.930 deg. F	
temperature	13	(87.300)	=	87.300 deg. F	
temperature	14	(82.560)	=	82.560 deg. F	
temperature	15	(78.840)	=	78.840 deg. F	
temperature	16	(78.820)	=	78.820 deg. F	
temperature	17	(78.790)	=	78.790 deg. F	
temperature	18	(79.010)	=	79.010 deg. F	
dewpoint	1	(55.930)	=	55.930 deg. F	, 0.2213 psia
dewpoint	2	(58.710)	=	58.710 deg. F	, 0.2446 psia
dewpoint	3	(53.480)	=	53.480 deg. F	, 0.2024 psia
dewpoint	4	(59.380)	=	59.380 deg. F	, 0.2505 psia
dewpoint	5	(77.200)	=	77.200 deg. F	, 0.4622 psia
dewpoint	6	(75.350)	=	75.350 deg. F	, 0.4347 psia
pressure	1	(53.1261)	=	53.1261 psia	
pressure	2	(53.1212)	=	53.1212 psia	

weighted averages, volume and air mass

temperature	=	85.74108 deg. F
pressure	=	53.12610 psia
vapor pressure	=	0.31880 psia
volume	=	343040 cu. ft.
dry air mass	=	89648.46 lbm

WNP2 1994 ILRT -- Stabilization

data set 2

time = 2100 date = 718

sensor		raw data		value	
temperature	1	(107.250)	=	107.250 deg. F	
temperature	2	(92.610)	=	92.610 deg. F	
temperature	3	(107.010)	=	107.010 deg. F	
temperature	4	(83.780)	=	83.780 deg. F	
temperature	5	(98.560)	=	98.560 deg. F	
temperature	6	(84.230)	=	84.230 deg. F	
temperature	7	(87.450)	=	87.450 deg. F	
temperature	8	(85.390)	=	85.390 deg. F	
temperature	9	(86.610)	=	86.610 deg. F	
temperature	10	(101.940)	=	101.940 deg. F	
temperature	11	(103.360)	=	103.360 deg. F	
temperature	12	(86.720)	=	86.720 deg. F	
temperature	13	(87.080)	=	87.080 deg. F	
temperature	14	(82.430)	=	82.430 deg. F	
temperature	15	(78.370)	=	78.370 deg. F	
temperature	16	(78.400)	=	78.400 deg. F	
temperature	17	(78.370)	=	78.370 deg. F	
temperature	18	(78.530)	=	78.530 deg. F	
dewpoint	1	(56.870)	=	56.870 deg. F	, 0.2289 psia
dewpoint	2	(58.500)	=	58.500 deg. F	, 0.2427 psia
dewpoint	3	(55.990)	=	55.990 deg. F	, 0.2217 psia
dewpoint	4	(59.220)	=	59.220 deg. F	, 0.2491 psia
dewpoint	5	(77.100)	=	77.100 deg. F	, 0.4607 psia
dewpoint	6	(76.340)	=	76.340 deg. F	, 0.4492 psia
pressure	1	(53.1065)	=	53.1065 psia	
pressure	2	(53.1015)	=	53.1015 psia	

weighted averages, volume and air mass

temperature	=	85.48677 deg. F
pressure	=	53.10650 psia
vapor pressure	=	0.32501 psia
volume	=	343040 cu. ft.
dry air mass	=	89646.44 lbm

WNP2 1994 ILRT -- Stabilization

data set 3

time = 2115 date = 718

sensor		raw data		value	
temperature	1 (107.220)	=	107.220	deg. F	
temperature	2 (92.630)	=	92.630	deg. F	
temperature	3 (107.020)	=	107.020	deg. F	
temperature	4 (83.730)	=	83.730	deg. F	
temperature	5 (98.580)	=	98.580	deg. F	
temperature	6 (84.200)	=	84.200	deg. F	
temperature	7 (87.450)	=	87.450	deg. F	
temperature	8 (85.360)	=	85.360	deg. F	
temperature	9 (86.650)	=	86.650	deg. F	
temperature	10 (101.950)	=	101.950	deg. F	
temperature	11 (103.360)	=	103.360	deg. F	
temperature	12 (86.720)	=	86.720	deg. F	
temperature	13 (87.020)	=	87.020	deg. F	
temperature	14 (82.400)	=	82.400	deg. F	
temperature	15 (78.170)	=	78.170	deg. F	
temperature	16 (78.160)	=	78.160	deg. F	
temperature	17 (78.150)	=	78.150	deg. F	
temperature	18 (78.300)	=	78.300	deg. F	
dewpoint	1 (57.200)	=	57.200	deg. F	, 0.2317 psia
dewpoint	2 (58.350)	=	58.350	deg. F	, 0.2414 psia
dewpoint	3 (57.250)	=	57.250	deg. F	, 0.2321 psia
dewpoint	4 (59.040)	=	59.040	deg. F	, 0.2475 psia
dewpoint	5 (77.020)	=	77.020	deg. F	, 0.4595 psia
dewpoint	6 (76.320)	=	76.320	deg. F	, 0.4490 psia
pressure	1 (53.0960)	=	53.0960	psia	
pressure	2 (53.0911)	=	53.0911	psia	

weighted averages, volume and air mass

temperature	=	85.38687	deg. F
pressure	=	53.09600	psia
vapor pressure	=	0.32628	psia
volume	=	343040	cu. ft.
dry air mass	=	89642.88	lbm

WNP2 1994 ILRT -- Stabilization

data set 4

time = 2130 date = 718

sensor		raw data		value	
temperature	1	(107.220)	=	107.220 deg. F	
temperature	2	(92.680)	=	92.680 deg. F	
temperature	3	(107.010)	=	107.010 deg. F	
temperature	4	(83.720)	=	83.720 deg. F	
temperature	5	(98.630)	=	98.630 deg. F	
temperature	6	(84.170)	=	84.170 deg. F	
temperature	7	(87.420)	=	87.420 deg. F	
temperature	8	(85.320)	=	85.320 deg. F	
temperature	9	(86.600)	=	86.600 deg. F	
temperature	10	(101.950)	=	101.950 deg. F	
temperature	11	(103.380)	=	103.380 deg. F	
temperature	12	(86.660)	=	86.660 deg. F	
temperature	13	(86.980)	=	86.980 deg. F	
temperature	14	(82.370)	=	82.370 deg. F	
temperature	15	(78.080)	=	78.080 deg. F	
temperature	16	(78.030)	=	78.030 deg. F	
temperature	17	(78.030)	=	78.030 deg. F	
temperature	18	(78.160)	=	78.160 deg. F	
dewpoint	1	(57.720)	=	57.720 deg. F	, 0.2360 psia
dewpoint	2	(58.260)	=	58.260 deg. F	, 0.2407 psia
dewpoint	3	(57.760)	=	57.760 deg. F	, 0.2364 psia
dewpoint	4	(59.130)	=	59.130 deg. F	, 0.2483 psia
dewpoint	5	(76.990)	=	76.990 deg. F	, 0.4590 psia
dewpoint	6	(76.460)	=	76.460 deg. F	, 0.4510 psia
pressure	1	(53.0882)	=	53.0882 psia	
pressure	2	(53.0833)	=	53.0833 psia	

weighted averages, volume and air mass

temperature	=	85.32635 deg. F
pressure	=	53.08820 psia
vapor pressure	=	0.32777 psia
volume	=	343040 cu. ft.
dry air mass	=	89637.05 lbm

WNP2 1994 ILRT -- Stabilization

data set 5

time = 2145 date = 718

sensor	raw data	value
temperature 1	(107.150)	= 107.150 deg. F
temperature 2	(92.710)	= 92.710 deg. F
temperature 3	(106.990)	= 106.990 deg. F
temperature 4	(83.660)	= 83.660 deg. F
temperature 5	(98.670)	= 98.670 deg. F
temperature 6	(84.140)	= 84.140 deg. F
temperature 7	(87.380)	= 87.380 deg. F
temperature 8	(85.270)	= 85.270 deg. F
temperature 9	(86.520)	= 86.520 deg. F
temperature 10	(101.990)	= 101.990 deg. F
temperature 11	(103.380)	= 103.380 deg. F
temperature 12	(86.610)	= 86.610 deg. F
temperature 13	(86.930)	= 86.930 deg. F
temperature 14	(82.380)	= 82.380 deg. F
temperature 15	(77.990)	= 77.990 deg. F
temperature 16	(77.930)	= 77.930 deg. F
temperature 17	(77.940)	= 77.940 deg. F
temperature 18	(78.070)	= 78.070 deg. F
dewpoint 1	(58.210)	= 58.210 deg. F , 0.2402 psia
dewpoint 2	(58.280)	= 58.280 deg. F , 0.2408 psia
dewpoint 3	(58.120)	= 58.120 deg. F , 0.2395 psia
dewpoint 4	(59.100)	= 59.100 deg. F , 0.2480 psia
dewpoint 5	(76.850)	= 76.850 deg. F , 0.4569 psia
dewpoint 6	(76.410)	= 76.410 deg. F , 0.4503 psia
pressure 1	(53.0806)	= 53.0806 psia
pressure 2	(53.0757)	= 53.0757 psia

weighted averages, volume and air mass

temperature	=	85.27293 deg. F
pressure	=	53.08060 psia
vapor pressure	=	0.32818 psia
volume	=	343040 cu. ft.
dry air mass	=	89632.24 lbm

WNP2 1994 ILRT -- Stabilization

data set 6

time = 2200 date = 718

sensor	raw data	value
temperature 1	(107.110)	= 107.110 deg. F
temperature 2	(92.740)	= 92.740 deg. F
temperature 3	(106.980)	= 106.980 deg. F
temperature 4	(83.610)	= 83.610 deg. F
temperature 5	(98.700)	= 98.700 deg. F
temperature 6	(84.100)	= 84.100 deg. F
temperature 7	(87.350)	= 87.350 deg. F
temperature 8	(85.240)	= 85.240 deg. F
temperature 9	(86.540)	= 86.540 deg. F
temperature 10	(102.010)	= 102.010 deg. F
temperature 11	(103.360)	= 103.360 deg. F
temperature 12	(86.580)	= 86.580 deg. F
temperature 13	(86.910)	= 86.910 deg. F
temperature 14	(82.340)	= 82.340 deg. F
temperature 15	(77.900)	= 77.900 deg. F
temperature 16	(77.840)	= 77.840 deg. F
temperature 17	(77.860)	= 77.860 deg. F
temperature 18	(78.000)	= 78.000 deg. F
dewpoint 1	(58.520)	= 58.520 deg. F , 0.2429 psia
dewpoint 2	(58.380)	= 58.380 deg. F , 0.2417 psia
dewpoint 3	(58.590)	= 58.590 deg. F , 0.2435 psia
dewpoint 4	(59.180)	= 59.180 deg. F , 0.2487 psia
dewpoint 5	(76.900)	= 76.900 deg. F , 0.4577 psia
dewpoint 6	(76.480)	= 76.480 deg. F , 0.4513 psia
pressure 1	(53.0747)	= 53.0747 psia
pressure 2	(53.0697)	= 53.0697 psia

weighted averages, volume and air mass

temperature	=	85.22848 deg. F
pressure	=	53.07470 psia
vapor pressure	=	0.32978 psia
volume	=	343040 cu. ft.
dry air mass	=	89626.80 lbm

WNP2 1994 ILRT -- Stabilization

data set 7

time = 2215 date = 718

sensor	raw data	value
temperature 1	(107.130)	= 107.130 deg. F
temperature 2	(92.800)	= 92.800 deg. F
temperature 3	(106.970)	= 106.970 deg. F
temperature 4	(83.600)	= 83.600 deg. F
temperature 5	(98.760)	= 98.760 deg. F
temperature 6	(84.090)	= 84.090 deg. F
temperature 7	(87.330)	= 87.330 deg. F
temperature 8	(85.230)	= 85.230 deg. F
temperature 9	(86.540)	= 86.540 deg. F
temperature 10	(102.020)	= 102.020 deg. F
temperature 11	(103.370)	= 103.370 deg. F
temperature 12	(86.580)	= 86.580 deg. F
temperature 13	(86.910)	= 86.910 deg. F
temperature 14	(82.290)	= 82.290 deg. F
temperature 15	(77.850)	= 77.850 deg. F
temperature 16	(77.780)	= 77.780 deg. F
temperature 17	(77.800)	= 77.800 deg. F
temperature 18	(77.930)	= 77.930 deg. F
dewpoint 1	(58.790)	= 58.790 deg. F , 0.2453 psia
dewpoint 2	(58.470)	= 58.470 deg. F , 0.2425 psia
dewpoint 3	(58.700)	= 58.700 deg. F , 0.2445 psia
dewpoint 4	(59.320)	= 59.320 deg. F , 0.2500 psia
dewpoint 5	(76.730)	= 76.730 deg. F , 0.4551 psia
dewpoint 6	(76.470)	= 76.470 deg. F , 0.4512 psia
pressure 1	(53.0678)	= 53.0678 psia
pressure 2	(53.0627)	= 53.0627 psia

weighted averages, volume and air mass

temperature	=	85.20318 deg. F
pressure	=	53.06780 psia
vapor pressure	=	0.32995 psia
volume	=	343040 cu. ft.
dry air mass	=	89618.94 lbm

WNP2 1994 ILRT -- Stabilization

data set 8

time = 2230 date = 718

sensor	raw data	value
temperature 1	(107.110)	= 107.110 deg. F
temperature 2	(92.840)	= 92.840 deg. F
temperature 3	(106.980)	= 106.980 deg. F
temperature 4	(83.570)	= 83.570 deg. F
temperature 5	(98.790)	= 98.790 deg. F
temperature 6	(84.050)	= 84.050 deg. F
temperature 7	(87.310)	= 87.310 deg. F
temperature 8	(85.180)	= 85.180 deg. F
temperature 9	(86.480)	= 86.480 deg. F
temperature 10	(102.080)	= 102.080 deg. F
temperature 11	(103.400)	= 103.400 deg. F
temperature 12	(86.540)	= 86.540 deg. F
temperature 13	(86.880)	= 86.880 deg. F
temperature 14	(82.280)	= 82.280 deg. F
temperature 15	(77.770)	= 77.770 deg. F
temperature 16	(77.720)	= 77.720 deg. F
temperature 17	(77.740)	= 77.740 deg. F
temperature 18	(77.880)	= 77.880 deg. F
dewpoint 1	(59.080)	= 59.080 deg. F , 0.2478 psia
dewpoint 2	(58.610)	= 58.610 deg. F , 0.2437 psia
dewpoint 3	(58.950)	= 58.950 deg. F , 0.2467 psia
dewpoint 4	(59.460)	= 59.460 deg. F , 0.2512 psia
dewpoint 5	(76.780)	= 76.780 deg. F , 0.4559 psia
dewpoint 6	(76.420)	= 76.420 deg. F , 0.4504 psia
pressure 1	(53.0619)	= 53.0619 psia
pressure 2	(53.0569)	= 53.0569 psia

weighted averages, volume and air mass

temperature	=	85.16875 deg. F
pressure	=	53.06190 psia
vapor pressure	=	0.33099 psia
volume	=	343040 cu. ft.
dry air mass	=	89612.81 lbm

WNP2 1994 ILRT -- Stabilization

data set 9

time = 2245 date = 718

sensor	raw data	value
temperature 1	(107.060)	= 107.060 deg. F
temperature 2	(92.880)	= 92.880 deg. F
temperature 3	(106.930)	= 106.930 deg. F
temperature 4	(83.500)	= 83.500 deg. F
temperature 5	(98.830)	= 98.830 deg. F
temperature 6	(84.000)	= 84.000 deg. F
temperature 7	(87.270)	= 87.270 deg. F
temperature 8	(85.130)	= 85.130 deg. F
temperature 9	(86.400)	= 86.400 deg. F
temperature 10	(102.070)	= 102.070 deg. F
temperature 11	(103.360)	= 103.360 deg. F
temperature 12	(86.480)	= 86.480 deg. F
temperature 13	(86.830)	= 86.830 deg. F
temperature 14	(82.210)	= 82.210 deg. F
temperature 15	(77.720)	= 77.720 deg. F
temperature 16	(77.660)	= 77.660 deg. F
temperature 17	(77.680)	= 77.680 deg. F
temperature 18	(77.820)	= 77.820 deg. F
dewpoint 1	(59.280)	= 59.280 deg. F , 0.2496 psia
dewpoint 2	(58.740)	= 58.740 deg. F , 0.2448 psia
dewpoint 3	(59.360)	= 59.360 deg. F , 0.2503 psia
dewpoint 4	(59.610)	= 59.610 deg. F , 0.2526 psia
dewpoint 5	(76.700)	= 76.700 deg. F , 0.4546 psia
dewpoint 6	(76.380)	= 76.380 deg. F , 0.4498 psia
pressure 1	(53.0579)	= 53.0579 psia
pressure 2	(53.0528)	= 53.0528 psia

weighted averages, volume and air mass

temperature	=	85.12038 deg. F
pressure	=	53.05790 psia
vapor pressure	=	0.33181 psia
volume	=	343040 cu. ft.
dry air mass	=	89612.58 lbm

WNP2 1994 ILRT -- Stabilization

data set 10

time = 2300 date = 718

sensor		raw data		value	
temperature	1	(107.040)	=	107.040 deg. F	
temperature	2	(92.920)	=	92.920 deg. F	
temperature	3	(106.890)	=	106.890 deg. F	
temperature	4	(83.490)	=	83.490 deg. F	
temperature	5	(98.860)	=	98.860 deg. F	
temperature	6	(83.970)	=	83.970 deg. F	
temperature	7	(87.260)	=	87.260 deg. F	
temperature	8	(85.100)	=	85.100 deg. F	
temperature	9	(86.430)	=	86.430 deg. F	
temperature	10	(102.090)	=	102.090 deg. F	
temperature	11	(103.360)	=	103.360 deg. F	
temperature	12	(86.460)	=	86.460 deg. F	
temperature	13	(86.820)	=	86.820 deg. F	
temperature	14	(82.220)	=	82.220 deg. F	
temperature	15	(77.660)	=	77.660 deg. F	
temperature	16	(77.600)	=	77.600 deg. F	
temperature	17	(77.620)	=	77.620 deg. F	
temperature	18	(77.770)	=	77.770 deg. F	
dewpoint	1	(59.530)	=	59.530 deg. F	, 0.2519 psia
dewpoint	2	(58.880)	=	58.880 deg. F	, 0.2461 psia
dewpoint	3	(59.470)	=	59.470 deg. F	, 0.2513 psia
dewpoint	4	(59.660)	=	59.660 deg. F	, 0.2530 psia
dewpoint	5	(76.590)	=	76.590 deg. F	, 0.4530 psia
dewpoint	6	(76.410)	=	76.410 deg. F	, 0.4503 psia
pressure	1	(53.0517)	=	53.0517 psia	
pressure	2	(53.0466)	=	53.0466 psia	

weighted averages, volume and air mass

temperature	=	85.09429 deg. F
pressure	=	53.05170 psia
vapor pressure	=	0.33228 psia
volume	=	343040 cu. ft.
dry air mass	=	89605.54 lbm

WNP2 1994 ILRT -- Stabilization

data set 11

time = 2315 date = 718

sensor		raw data		value	
temperature	1	(107.090)	=	107.090 deg. F	
temperature	2	(92.950)	=	92.950 deg. F	
temperature	3	(106.960)	=	106.960 deg. F	
temperature	4	(83.440)	=	83.440 deg. F	
temperature	5	(98.920)	=	98.920 deg. F	
temperature	6	(83.950)	=	83.950 deg. F	
temperature	7	(87.260)	=	87.260 deg. F	
temperature	8	(85.090)	=	85.090 deg. F	
temperature	9	(86.380)	=	86.380 deg. F	
temperature	10	(102.100)	=	102.100 deg. F	
temperature	11	(103.400)	=	103.400 deg. F	
temperature	12	(86.450)	=	86.450 deg. F	
temperature	13	(86.810)	=	86.810 deg. F	
temperature	14	(82.170)	=	82.170 deg. F	
temperature	15	(77.610)	=	77.610 deg. F	
temperature	16	(77.540)	=	77.540 deg. F	
temperature	17	(77.570)	=	77.570 deg. F	
temperature	18	(77.710)	=	77.710 deg. F	
dewpoint	1	(59.710)	=	59.710 deg. F	, 0.2535 psia
dewpoint	2	(59.100)	=	59.100 deg. F	, 0.2480 psia
dewpoint	3	(59.660)	=	59.660 deg. F	, 0.2530 psia
dewpoint	4	(59.960)	=	59.960 deg. F	, 0.2557 psia
dewpoint	5	(76.540)	=	76.540 deg. F	, 0.4522 psia
dewpoint	6	(76.430)	=	76.430 deg. F	, 0.4506 psia
pressure	1	(53.0472)	=	53.0472 psia	
pressure	2	(53.0421)	=	53.0421 psia	

weighted averages, volume and air mass

temperature	=	85.06894 deg. F
pressure	=	53.04720 psia
vapor pressure	=	0.33335 psia
volume	=	343040 cu. ft.
dry air mass	=	89600.24 lbm

WNP2 1994 ILRT -- Stabilization

data set 12

time = 2330 date = 718

sensor		raw data		value	
temperature	1	(107.040)	=	107.040 deg. F	
temperature	2	(93.000)	=	93.000 deg. F	
temperature	3	(106.900)	=	106.900 deg. F	
temperature	4	(83.420)	=	83.420 deg. F	
temperature	5	(98.950)	=	98.950 deg. F	
temperature	6	(83.910)	=	83.910 deg. F	
temperature	7	(87.230)	=	87.230 deg. F	
temperature	8	(85.100)	=	85.100 deg. F	
temperature	9	(86.410)	=	86.410 deg. F	
temperature	10	(102.130)	=	102.130 deg. F	
temperature	11	(103.410)	=	103.410 deg. F	
temperature	12	(86.440)	=	86.440 deg. F	
temperature	13	(86.810)	=	86.810 deg. F	
temperature	14	(82.170)	=	82.170 deg. F	
temperature	15	(77.570)	=	77.570 deg. F	
temperature	16	(77.500)	=	77.500 deg. F	
temperature	17	(77.530)	=	77.530 deg. F	
temperature	18	(77.660)	=	77.660 deg. F	
dewpoint	1	(59.860)	=	59.860 deg. F	, 0.2548 psia
dewpoint	2	(59.220)	=	59.220 deg. F	, 0.2491 psia
dewpoint	3	(59.890)	=	59.890 deg. F	, 0.2551 psia
dewpoint	4	(59.980)	=	59.980 deg. F	, 0.2559 psia
dewpoint	5	(76.500)	=	76.500 deg. F	, 0.4516 psia
dewpoint	6	(76.380)	=	76.380 deg. F	, 0.4498 psia
pressure	1	(53.0433)	=	53.0433 psia	
pressure	2	(53.0383)	=	53.0383 psia	

weighted averages, volume and air mass

temperature	=	85.04893 deg. F
pressure	=	53.04330 psia
vapor pressure	=	0.33381 psia
volume	=	343040 cu. ft.
dry air mass	=	89596.12 lbm

WNP2 1994 ILRT -- Stabilization

data set 13

time = 2345 date = 718

sensor	raw data	value
temperature 1	(107.070)	= 107.070 deg. F
temperature 2	(93.030)	= 93.030 deg. F
temperature 3	(106.890)	= 106.890 deg. F
temperature 4	(83.380)	= 83.380 deg. F
temperature 5	(98.990)	= 98.990 deg. F
temperature 6	(83.890)	= 83.890 deg. F
temperature 7	(87.220)	= 87.220 deg. F
temperature 8	(85.090)	= 85.090 deg. F
temperature 9	(86.400)	= 86.400 deg. F
temperature 10	(102.150)	= 102.150 deg. F
temperature 11	(103.420)	= 103.420 deg. F
temperature 12	(86.410)	= 86.410 deg. F
temperature 13	(86.790)	= 86.790 deg. F
temperature 14	(82.140)	= 82.140 deg. F
temperature 15	(77.510)	= 77.510 deg. F
temperature 16	(77.440)	= 77.440 deg. F
temperature 17	(77.480)	= 77.480 deg. F
temperature 18	(77.600)	= 77.600 deg. F
dewpoint 1	(60.040)	= 60.040 deg. F , 0.2565 psia
dewpoint 2	(59.360)	= 59.360 deg. F , 0.2503 psia
dewpoint 3	(60.060)	= 60.060 deg. F , 0.2567 psia
dewpoint 4	(60.240)	= 60.240 deg. F , 0.2583 psia
dewpoint 5	(76.500)	= 76.500 deg. F , 0.4516 psia
dewpoint 6	(76.350)	= 76.350 deg. F , 0.4494 psia
pressure 1	(53.0380)	= 53.0380 psia
pressure 2	(53.0327)	= 53.0327 psia

weighted averages, volume and air mass

temperature	=	85.01992 deg. F
pressure	=	53.03800 psia
vapor pressure	=	0.33468 psia
volume	=	343040 cu. ft.
dry air mass	=	89590.40 lbm

WNP2 1994 ILRT -- Stabilization

data set 14

time = 0 date = 719

sensor	raw data	value
temperature 1	(107.060)	= 107.060 deg. F
temperature 2	(93.080)	= 93.080 deg. F
temperature 3	(106.900)	= 106.900 deg. F
temperature 4	(83.340)	= 83.340 deg. F
temperature 5	(99.030)	= 99.030 deg. F
temperature 6	(83.860)	= 83.860 deg. F
temperature 7	(87.220)	= 87.220 deg. F
temperature 8	(85.060)	= 85.060 deg. F
temperature 9	(86.290)	= 86.290 deg. F
temperature 10	(102.150)	= 102.150 deg. F
temperature 11	(103.450)	= 103.450 deg. F
temperature 12	(86.350)	= 86.350 deg. F
temperature 13	(86.800)	= 86.800 deg. F
temperature 14	(82.170)	= 82.170 deg. F
temperature 15	(77.470)	= 77.470 deg. F
temperature 16	(77.390)	= 77.390 deg. F
temperature 17	(77.440)	= 77.440 deg. F
temperature 18	(77.560)	= 77.560 deg. F
dewpoint 1	(60.170)	= 60.170 deg. F , 0.2577 psia
dewpoint 2	(59.550)	= 59.550 deg. F , 0.2520 psia
dewpoint 3	(60.300)	= 60.300 deg. F , 0.2589 psia
dewpoint 4	(60.320)	= 60.320 deg. F , 0.2590 psia
dewpoint 5	(76.520)	= 76.520 deg. F , 0.4519 psia
dewpoint 6	(76.330)	= 76.330 deg. F , 0.4491 psia
pressure 1	(53.0311)	= 53.0311 psia
pressure 2	(53.0262)	= 53.0262 psia

weighted averages, volume and air mass

temperature	=	84.99537 deg. F
pressure	=	53.03110 psia
vapor pressure	=	0.33560 psia
volume	=	343040 cu. ft.
dry air mass	=	89581.15 lbm

WNP2 1994 ILRT -- Stabilization

data set 15

time = 15 date = 719

sensor		raw data		value	
temperature	1	(106.980)	=	106.980 deg. F	
temperature	2	(93.130)	=	93.130 deg. F	
temperature	3	(106.860)	=	106.860 deg. F	
temperature	4	(83.300)	=	83.300 deg. F	
temperature	5	(99.060)	=	99.060 deg. F	
temperature	6	(83.840)	=	83.840 deg. F	
temperature	7	(87.210)	=	87.210 deg. F	
temperature	8	(85.030)	=	85.030 deg. F	
temperature	9	(86.290)	=	86.290 deg. F	
temperature	10	(102.190)	=	102.190 deg. F	
temperature	11	(103.420)	=	103.420 deg. F	
temperature	12	(86.400)	=	86.400 deg. F	
temperature	13	(86.780)	=	86.780 deg. F	
temperature	14	(82.090)	=	82.090 deg. F	
temperature	15	(77.420)	=	77.420 deg. F	
temperature	16	(77.350)	=	77.350 deg. F	
temperature	17	(77.390)	=	77.390 deg. F	
temperature	18	(77.520)	=	77.520 deg. F	
dewpoint	1	(60.360)	=	60.360 deg. F	, 0.2594 psia
dewpoint	2	(59.680)	=	59.680 deg. F	, 0.2532 psia
dewpoint	3	(60.300)	=	60.300 deg. F	, 0.2589 psia
dewpoint	4	(60.490)	=	60.490 deg. F	, 0.2606 psia
dewpoint	5	(76.490)	=	76.490 deg. F	, 0.4515 psia
dewpoint	6	(76.320)	=	76.320 deg. F	, 0.4490 psia
pressure	1	(53.0256)	=	53.0256 psia	
pressure	2	(53.0204)	=	53.0204 psia	

weighted averages, volume and air mass

temperature	=	84.96915 deg. F
pressure	=	53.02560 psia
vapor pressure	=	0.33609 psia
volume	=	343040 cu. ft.
dry air mass	=	89575.27 lbm

WNP2 1994 ILRT -- Stabilization

data set 16

time = 30 date = 719

sensor	raw data	value
temperature 1	(106.920)	= 106.920 deg. F
temperature 2	(93.150)	= 93.150 deg. F
temperature 3	(106.820)	= 106.820 deg. F
temperature 4	(83.260)	= 83.260 deg. F
temperature 5	(99.080)	= 99.080 deg. F
temperature 6	(83.800)	= 83.800 deg. F
temperature 7	(87.160)	= 87.160 deg. F
temperature 8	(85.010)	= 85.010 deg. F
temperature 9	(86.300)	= 86.300 deg. F
temperature 10	(102.170)	= 102.170 deg. F
temperature 11	(103.410)	= 103.410 deg. F
temperature 12	(86.350)	= 86.350 deg. F
temperature 13	(86.760)	= 86.760 deg. F
temperature 14	(82.070)	= 82.070 deg. F
temperature 15	(77.370)	= 77.370 deg. F
temperature 16	(77.300)	= 77.300 deg. F
temperature 17	(77.350)	= 77.350 deg. F
temperature 18	(77.470)	= 77.470 deg. F
dewpoint 1	(60.540)	= 60.540 deg. F , 0.2611 psia
dewpoint 2	(59.840)	= 59.840 deg. F , 0.2547 psia
dewpoint 3	(60.420)	= 60.420 deg. F , 0.2600 psia
dewpoint 4	(60.650)	= 60.650 deg. F , 0.2621 psia
dewpoint 5	(76.460)	= 76.460 deg. F , 0.4510 psia
dewpoint 6	(76.310)	= 76.310 deg. F , 0.4488 psia
pressure 1	(53.0214)	= 53.0214 psia
pressure 2	(53.0163)	= 53.0163 psia

weighted averages, volume and air mass

temperature	=	84.93573 deg. F
pressure	=	53.02140 psia
vapor pressure	=	0.33680 psia
volume	=	343040 cu. ft.
dry air mass	=	89572.43 lbm

WNP2 1994 ILRT -- Stabilization

data set 17

time = 45 date = 719

sensor		raw data		value	
temperature	1	(106.890)	=	106.890 deg. F	
temperature	2	(93.190)	=	93.190 deg. F	
temperature	3	(106.800)	=	106.800 deg. F	
temperature	4	(83.220)	=	83.220 deg. F	
temperature	5	(99.100)	=	99.100 deg. F	
temperature	6	(83.770)	=	83.770 deg. F	
temperature	7	(87.160)	=	87.160 deg. F	
temperature	8	(84.980)	=	84.980 deg. F	
temperature	9	(86.240)	=	86.240 deg. F	
temperature	10	(102.210)	=	102.210 deg. F	
temperature	11	(103.420)	=	103.420 deg. F	
temperature	12	(86.340)	=	86.340 deg. F	
temperature	13	(86.750)	=	86.750 deg. F	
temperature	14	(82.080)	=	82.080 deg. F	
temperature	15	(77.340)	=	77.340 deg. F	
temperature	16	(77.260)	=	77.260 deg. F	
temperature	17	(77.310)	=	77.310 deg. F	
temperature	18	(77.430)	=	77.430 deg. F	
dewpoint	1	(60.660)	=	60.660 deg. F	, 0.2622 psia
dewpoint	2	(59.980)	=	59.980 deg. F	, 0.2559 psia
dewpoint	3	(60.710)	=	60.710 deg. F	, 0.2627 psia
dewpoint	4	(60.850)	=	60.850 deg. F	, 0.2640 psia
dewpoint	5	(76.390)	=	76.390 deg. F	, 0.4500 psia
dewpoint	6	(76.270)	=	76.270 deg. F	, 0.4482 psia
pressure	1	(53.0166)	=	53.0166 psia	
pressure	2	(53.0114)	=	53.0114 psia	

weighted averages, volume and air mass

temperature	=	84.91425 deg. F
pressure	=	53.01660 psia
vapor pressure	=	0.33750 psia
volume	=	343040 cu. ft.
dry air mass	=	89566.60 lbm

WNP2 1994 ILRT -- Stabilization

data set 18

time = 100 date = 719

sensor		raw data		value	
temperature	1	(106.860)	=	106.860 deg. F	
temperature	2	(93.220)	=	93.220 deg. F	
temperature	3	(106.790)	=	106.790 deg. F	
temperature	4	(83.220)	=	83.220 deg. F	
temperature	5	(99.140)	=	99.140 deg. F	
temperature	6	(83.750)	=	83.750 deg. F	
temperature	7	(87.160)	=	87.160 deg. F	
temperature	8	(84.940)	=	84.940 deg. F	
temperature	9	(86.280)	=	86.280 deg. F	
temperature	10	(102.210)	=	102.210 deg. F	
temperature	11	(103.420)	=	103.420 deg. F	
temperature	12	(86.310)	=	86.310 deg. F	
temperature	13	(86.730)	=	86.730 deg. F	
temperature	14	(82.050)	=	82.050 deg. F	
temperature	15	(77.300)	=	77.300 deg. F	
temperature	16	(77.230)	=	77.230 deg. F	
temperature	17	(77.270)	=	77.270 deg. F	
temperature	18	(77.390)	=	77.390 deg. F	
dewpoint	1	(60.780)	=	60.780 deg. F	, 0.2633 psia
dewpoint	2	(60.120)	=	60.120 deg. F	, 0.2572 psia
dewpoint	3	(60.810)	=	60.810 deg. F	, 0.2636 psia
dewpoint	4	(61.050)	=	61.050 deg. F	, 0.2659 psia
dewpoint	5	(76.410)	=	76.410 deg. F	, 0.4503 psia
dewpoint	6	(76.200)	=	76.200 deg. F	, 0.4472 psia
pressure	1	(53.0117)	=	53.0117 psia	
pressure	2	(53.0066)	=	53.0066 psia	

weighted averages, volume and air mass

temperature	=	84.89513 deg. F
pressure	=	53.01170 psia
vapor pressure	=	0.33810 psia
volume	=	343040 cu. ft.
dry air mass	=	89560.40 lbm

WNP2 1994 ILRT -- Stabilization

data set 19

time = 115 date = 719

sensor		raw data		value	
temperature	1	(106.830)	=	106.830	deg. F
temperature	2	(93.260)	=	93.260	deg. F
temperature	3	(106.770)	=	106.770	deg. F
temperature	4	(83.160)	=	83.160	deg. F
temperature	5	(99.170)	=	99.170	deg. F
temperature	6	(83.720)	=	83.720	deg. F
temperature	7	(87.130)	=	87.130	deg. F
temperature	8	(84.920)	=	84.920	deg. F
temperature	9	(86.270)	=	86.270	deg. F
temperature	10	(102.190)	=	102.190	deg. F
temperature	11	(103.440)	=	103.440	deg. F
temperature	12	(86.310)	=	86.310	deg. F
temperature	13	(86.690)	=	86.690	deg. F
temperature	14	(82.020)	=	82.020	deg. F
temperature	15	(77.260)	=	77.260	deg. F
temperature	16	(77.180)	=	77.180	deg. F
temperature	17	(77.230)	=	77.230	deg. F
temperature	18	(77.340)	=	77.340	deg. F
dewpoint	1	(61.020)	=	61.020	deg. F , 0.2656 psia
dewpoint	2	(60.280)	=	60.280	deg. F , 0.2587 psia
dewpoint	3	(60.950)	=	60.950	deg. F , 0.2649 psia
dewpoint	4	(61.160)	=	61.160	deg. F , 0.2669 psia
dewpoint	5	(76.330)	=	76.330	deg. F , 0.4491 psia
dewpoint	6	(76.240)	=	76.240	deg. F , 0.4478 psia
pressure	1	(53.0066)	=	53.0066	psia
pressure	2	(53.0016)	=	53.0016	psia

weighted averages, volume and air mass

temperature	=	84.86606	deg. F
pressure	=	53.00660	psia
vapor pressure	=	0.33886	psia
volume	=	343040	cu. ft.
dry air mass	=	89555.21	lbm

WNP2 1994 ILRT -- Stabilization

data set 20

time = 130 date = 719

sensor		raw data		value	
temperature	1	(106.800)	=	106.800	deg. F
temperature	2	(93.300)	=	93.300	deg. F
temperature	3	(106.720)	=	106.720	deg. F
temperature	4	(83.130)	=	83.130	deg. F
temperature	5	(99.180)	=	99.180	deg. F
temperature	6	(83.690)	=	83.690	deg. F
temperature	7	(87.130)	=	87.130	deg. F
temperature	8	(84.890)	=	84.890	deg. F
temperature	9	(86.270)	=	86.270	deg. F
temperature	10	(102.200)	=	102.200	deg. F
temperature	11	(103.430)	=	103.430	deg. F
temperature	12	(86.290)	=	86.290	deg. F
temperature	13	(86.690)	=	86.690	deg. F
temperature	14	(82.000)	=	82.000	deg. F
temperature	15	(77.220)	=	77.220	deg. F
temperature	16	(77.150)	=	77.150	deg. F
temperature	17	(77.190)	=	77.190	deg. F
temperature	18	(77.310)	=	77.310	deg. F
dewpoint	1	(61.100)	=	61.100	deg. F , 0.2663 psia
dewpoint	2	(60.420)	=	60.420	deg. F , 0.2600 psia
dewpoint	3	(61.030)	=	61.030	deg. F , 0.2657 psia
dewpoint	4	(61.230)	=	61.230	deg. F , 0.2676 psia
dewpoint	5	(76.280)	=	76.280	deg. F , 0.4484 psia
dewpoint	6	(76.160)	=	76.160	deg. F , 0.4466 psia
pressure	1	(53.0017)	=	53.0017	psia
pressure	2	(52.9966)	=	52.9966	psia

weighted averages, volume and air mass

temperature	=	84.84428	deg. F
pressure	=	53.00170	psia
vapor pressure	=	0.33901	psia
volume	=	343040	cu. ft.
dry air mass	=	89550.21	lbm

WNP2 1994 ILRT -- Stabilization

data set 21

time = 145 date = 719

sensor		raw data		value	
temperature	1	(106.740)	=	106.740 deg.	F
temperature	2	(93.340)	=	93.340 deg.	F
temperature	3	(106.680)	=	106.680 deg.	F
temperature	4	(83.090)	=	83.090 deg.	F
temperature	5	(99.200)	=	99.200 deg.	F
temperature	6	(83.660)	=	83.660 deg.	F
temperature	7	(87.110)	=	87.110 deg.	F
temperature	8	(84.870)	=	84.870 deg.	F
temperature	9	(86.320)	=	86.320 deg.	F
temperature	10	(102.210)	=	102.210 deg.	F
temperature	11	(103.410)	=	103.410 deg.	F
temperature	12	(86.240)	=	86.240 deg.	F
temperature	13	(86.670)	=	86.670 deg.	F
temperature	14	(82.000)	=	82.000 deg.	F
temperature	15	(77.190)	=	77.190 deg.	F
temperature	16	(77.120)	=	77.120 deg.	F
temperature	17	(77.150)	=	77.150 deg.	F
temperature	18	(77.280)	=	77.280 deg.	F
dewpoint	1	(61.210)	=	61.210 deg.	F , 0.2674 psia
dewpoint	2	(60.570)	=	60.570 deg.	F , 0.2614 psia
dewpoint	3	(61.150)	=	61.150 deg.	F , 0.2668 psia
dewpoint	4	(61.410)	=	61.410 deg.	F , 0.2693 psia
dewpoint	5	(76.260)	=	76.260 deg.	F , 0.4481 psia
dewpoint	6	(76.150)	=	76.150 deg.	F , 0.4464 psia
pressure	1	(52.9988)	=	52.9988 psia	
pressure	2	(52.9940)	=	52.9940 psia	

weighted averages, volume and air mass

temperature	=	84.82364 deg.	F
pressure	=	52.99880 psia	
vapor pressure	=	0.33969 psia	
volume	=	343040 cu.	ft.
dry air mass	=	89547.50 lbm	

WNP2 1994 ILRT -- Stabilization

data set 22

time = 200 date = 719

sensor		raw data		value	
temperature	1	(106.720)	=	106.720 deg. F	
temperature	2	(93.370)	=	93.370 deg. F	
temperature	3	(106.620)	=	106.620 deg. F	
temperature	4	(83.040)	=	83.040 deg. F	
temperature	5	(99.220)	=	99.220 deg. F	
temperature	6	(83.630)	=	83.630 deg. F	
temperature	7	(87.080)	=	87.080 deg. F	
temperature	8	(84.850)	=	84.850 deg. F	
temperature	9	(86.160)	=	86.160 deg. F	
temperature	10	(102.210)	=	102.210 deg. F	
temperature	11	(103.410)	=	103.410 deg. F	
temperature	12	(86.210)	=	86.210 deg. F	
temperature	13	(86.660)	=	86.660 deg. F	
temperature	14	(82.000)	=	82.000 deg. F	
temperature	15	(77.150)	=	77.150 deg. F	
temperature	16	(77.080)	=	77.080 deg. F	
temperature	17	(77.110)	=	77.110 deg. F	
temperature	18	(77.230)	=	77.230 deg. F	
dewpoint	1	(61.380)	=	61.380 deg. F	, 0.2690 psia
dewpoint	2	(60.690)	=	60.690 deg. F	, 0.2625 psia
dewpoint	3	(61.380)	=	61.380 deg. F	, 0.2690 psia
dewpoint	4	(61.520)	=	61.520 deg. F	, 0.2703 psia
dewpoint	5	(76.290)	=	76.290 deg. F	, 0.4485 psia
dewpoint	6	(76.140)	=	76.140 deg. F	, 0.4463 psia
pressure	1	(52.9952)	=	52.9952 psia	
pressure	2	(52.9905)	=	52.9905 psia	

weighted averages, volume and air mass

temperature	=	84.78923 deg. F
pressure	=	52.99520 psia
vapor pressure	=	0.34064 psia
volume	=	343040 cu. ft.
dry air mass	=	89545.43 lbm

WNP2 1994 ILRT -- Stabilization

data set 23

time = 215 date = 719

sensor		raw data		value
temperature	1	(106.690)	=	106.690 deg. F
temperature	2	(93.390)	=	93.390 deg. F
temperature	3	(106.610)	=	106.610 deg. F
temperature	4	(83.070)	=	83.070 deg. F
temperature	5	(99.260)	=	99.260 deg. F
temperature	6	(83.620)	=	83.620 deg. F
temperature	7	(87.090)	=	87.090 deg. F
temperature	8	(84.820)	=	84.820 deg. F
temperature	9	(86.150)	=	86.150 deg. F
temperature	10	(102.210)	=	102.210 deg. F
temperature	11	(103.420)	=	103.420 deg. F
temperature	12	(86.210)	=	86.210 deg. F
temperature	13	(86.650)	=	86.650 deg. F
temperature	14	(81.950)	=	81.950 deg. F
temperature	15	(77.120)	=	77.120 deg. F
temperature	16	(77.040)	=	77.040 deg. F
temperature	17	(77.080)	=	77.080 deg. F
temperature	18	(77.200)	=	77.200 deg. F
dewpoint	1	(61.490)	=	61.490 deg. F , 0.2700 psia
dewpoint	2	(60.830)	=	60.830 deg. F , 0.2638 psia
dewpoint	3	(61.530)	=	61.530 deg. F , 0.2704 psia
dewpoint	4	(61.670)	=	61.670 deg. F , 0.2718 psia
dewpoint	5	(76.270)	=	76.270 deg. F , 0.4482 psia
dewpoint	6	(76.150)	=	76.150 deg. F , 0.4464 psia
pressure	1	(52.9929)	=	52.9929 psia
pressure	2	(52.9881)	=	52.9881 psia

weighted averages, volume and air mass

temperature	=	84.77360 deg. F
pressure	=	52.99290 psia
vapor pressure	=	0.34139 psia
volume	=	343040 cu. ft.
dry air mass	=	89542.82 lbm

WNP2 1994 ILRT -- Stabilization

data set 24

time = 230 date = 719

sensor		raw data		value	
temperature	1	(106.660)	=	106.660 deg. F	
temperature	2	(93.450)	=	93.450 deg. F	
temperature	3	(106.610)	=	106.610 deg. F	
temperature	4	(83.030)	=	83.030 deg. F	
temperature	5	(99.280)	=	99.280 deg. F	
temperature	6	(83.610)	=	83.610 deg. F	
temperature	7	(87.040)	=	87.040 deg. F	
temperature	8	(84.780)	=	84.780 deg. F	
temperature	9	(86.180)	=	86.180 deg. F	
temperature	10	(102.200)	=	102.200 deg. F	
temperature	11	(103.410)	=	103.410 deg. F	
temperature	12	(86.200)	=	86.200 deg. F	
temperature	13	(86.640)	=	86.640 deg. F	
temperature	14	(81.920)	=	81.920 deg. F	
temperature	15	(77.080)	=	77.080 deg. F	
temperature	16	(77.020)	=	77.020 deg. F	
temperature	17	(77.050)	=	77.050 deg. F	
temperature	18	(77.170)	=	77.170 deg. F	
dewpoint	1	(61.670)	=	61.670 deg. F	, 0.2718 psia
dewpoint	2	(60.970)	=	60.970 deg. F	, 0.2651 psia
dewpoint	3	(61.640)	=	61.640 deg. F	, 0.2715 psia
dewpoint	4	(61.720)	=	61.720 deg. F	, 0.2722 psia
dewpoint	5	(76.200)	=	76.200 deg. F	, 0.4472 psia
dewpoint	6	(76.130)	=	76.130 deg. F	, 0.4461 psia
pressure	1	(52.9893)	=	52.9893 psia	
pressure	2	(52.9846)	=	52.9846 psia	

weighted averages, volume and air mass

temperature	=	84.75479 deg. F
pressure	=	52.98930 psia
vapor pressure	=	0.34180 psia
volume	=	343040 cu. ft.
dry air mass	=	89539.08 lbm

WNP2 1994 ILRT -- Stabilization

data set 25

time = 245 date = 719

sensor		raw data		value	
temperature	1	(106.630)	=	106.630 deg.	F
temperature	2	(93.490)	=	93.490 deg.	F
temperature	3	(106.590)	=	106.590 deg.	F
temperature	4	(82.990)	=	82.990 deg.	F
temperature	5	(99.300)	=	99.300 deg.	F
temperature	6	(83.570)	=	83.570 deg.	F
temperature	7	(87.030)	=	87.030 deg.	F
temperature	8	(84.760)	=	84.760 deg.	F
temperature	9	(86.130)	=	86.130 deg.	F
temperature	10	(102.210)	=	102.210 deg.	F
temperature	11	(103.430)	=	103.430 deg.	F
temperature	12	(86.170)	=	86.170 deg.	F
temperature	13	(86.620)	=	86.620 deg.	F
temperature	14	(81.920)	=	81.920 deg.	F
temperature	15	(77.050)	=	77.050 deg.	F
temperature	16	(76.980)	=	76.980 deg.	F
temperature	17	(77.000)	=	77.000 deg.	F
temperature	18	(77.140)	=	77.140 deg.	F
dewpoint	1	(61.780)	=	61.780 deg.	F , 0.2728 psia
dewpoint	2	(61.120)	=	61.120 deg.	F , 0.2665 psia
dewpoint	3	(61.740)	=	61.740 deg.	F , 0.2724 psia
dewpoint	4	(62.010)	=	62.010 deg.	F , 0.2750 psia
dewpoint	5	(76.090)	=	76.090 deg.	F , 0.4455 psia
dewpoint	6	(76.150)	=	76.150 deg.	F , 0.4464 psia
pressure	1	(52.9847)	=	52.9847	psia
pressure	2	(52.9798)	=	52.9798	psia

weighted averages, volume and air mass

temperature	=	84.73040 deg.	F
pressure	=	52.98470	psia
vapor pressure	=	0.34241	psia
volume	=	343040	cu. ft.
dry air mass	=	89534.24	lbm

WNP2 1994 ILRT -- Stabilization

data set 26

time = 300 date = 719

sensor		raw data		value	
temperature	1	(106.560)	=	106.560 deg. F	
temperature	2	(93.520)	=	93.520 deg. F	
temperature	3	(106.520)	=	106.520 deg. F	
temperature	4	(82.920)	=	82.920 deg. F	
temperature	5	(99.320)	=	99.320 deg. F	
temperature	6	(83.540)	=	83.540 deg. F	
temperature	7	(87.030)	=	87.030 deg. F	
temperature	8	(84.720)	=	84.720 deg. F	
temperature	9	(86.090)	=	86.090 deg. F	
temperature	10	(102.240)	=	102.240 deg. F	
temperature	11	(103.430)	=	103.430 deg. F	
temperature	12	(86.130)	=	86.130 deg. F	
temperature	13	(86.580)	=	86.580 deg. F	
temperature	14	(81.880)	=	81.880 deg. F	
temperature	15	(77.030)	=	77.030 deg. F	
temperature	16	(76.960)	=	76.960 deg. F	
temperature	17	(76.980)	=	76.980 deg. F	
temperature	18	(77.100)	=	77.100 deg. F	
dewpoint	1	(61.900)	=	61.900 deg. F	, 0.2740 psia
dewpoint	2	(61.240)	=	61.240 deg. F	, 0.2676 psia
dewpoint	3	(61.870)	=	61.870 deg. F	, 0.2737 psia
dewpoint	4	(61.930)	=	61.930 deg. F	, 0.2743 psia
dewpoint	5	(76.080)	=	76.080 deg. F	, 0.4454 psia
dewpoint	6	(76.110)	=	76.110 deg. F	, 0.4458 psia
pressure	1	(52.9819)	=	52.9819 psia	
pressure	2	(52.9768)	=	52.9768 psia	

weighted averages, volume and air mass

temperature	=	84.70383 deg. F
pressure	=	52.98190 psia
vapor pressure	=	0.34274 psia
volume	=	343040 cu. ft.
dry air mass	=	89533.29 lbm

WNP2 1994 ILRT -- Stabilization

data set 27

time = 315 date = 719

sensor	raw data	value
temperature 1	(106.510)	= 106.510 deg. F
temperature 2	(93.570)	= 93.570 deg. F
temperature 3	(106.500)	= 106.500 deg. F
temperature 4	(82.910)	= 82.910 deg. F
temperature 5	(99.330)	= 99.330 deg. F
temperature 6	(83.520)	= 83.520 deg. F
temperature 7	(87.030)	= 87.030 deg. F
temperature 8	(84.690)	= 84.690 deg. F
temperature 9	(85.980)	= 85.980 deg. F
temperature 10	(102.210)	= 102.210 deg. F
temperature 11	(103.400)	= 103.400 deg. F
temperature 12	(86.120)	= 86.120 deg. F
temperature 13	(86.560)	= 86.560 deg. F
temperature 14	(81.880)	= 81.880 deg. F
temperature 15	(76.990)	= 76.990 deg. F
temperature 16	(76.920)	= 76.920 deg. F
temperature 17	(76.950)	= 76.950 deg. F
temperature 18	(77.070)	= 77.070 deg. F
dewpoint 1	(62.030)	= 62.030 deg. F , 0.2752 psia
dewpoint 2	(61.360)	= 61.360 deg. F , 0.2688 psia
dewpoint 3	(62.050)	= 62.050 deg. F , 0.2754 psia
dewpoint 4	(62.120)	= 62.120 deg. F , 0.2761 psia
dewpoint 5	(76.200)	= 76.200 deg. F , 0.4472 psia
dewpoint 6	(76.160)	= 76.160 deg. F , 0.4466 psia
pressure 1	(52.9802)	= 52.9802 psia
pressure 2	(52.9750)	= 52.9750 psia

weighted averages, volume and air mass

temperature	=	84.67872 deg. F
pressure	=	52.98020 psia
vapor pressure	=	0.34412 psia
volume	=	343040 cu. ft.
dry air mass	=	89532.18 lbm

WNP2 1994 ILRT -- Stabilization

data set 28

time = 330 date = 719

sensor		raw data		value	
temperature	1	(106.480)	=	106.480 deg. F	
temperature	2	(93.590)	=	93.590 deg. F	
temperature	3	(106.490)	=	106.490 deg. F	
temperature	4	(82.890)	=	82.890 deg. F	
temperature	5	(99.350)	=	99.350 deg. F	
temperature	6	(83.520)	=	83.520 deg. F	
temperature	7	(87.010)	=	87.010 deg. F	
temperature	8	(84.670)	=	84.670 deg. F	
temperature	9	(86.020)	=	86.020 deg. F	
temperature	10	(102.210)	=	102.210 deg. F	
temperature	11	(103.400)	=	103.400 deg. F	
temperature	12	(86.080)	=	86.080 deg. F	
temperature	13	(86.560)	=	86.560 deg. F	
temperature	14	(81.860)	=	81.860 deg. F	
temperature	15	(76.970)	=	76.970 deg. F	
temperature	16	(76.900)	=	76.900 deg. F	
temperature	17	(76.920)	=	76.920 deg. F	
temperature	18	(77.050)	=	77.050 deg. F	
dewpoint	1	(62.210)	=	62.210 deg. F	, 0.2770 psia
dewpoint	2	(61.480)	=	61.480 deg. F	, 0.2699 psia
dewpoint	3	(62.150)	=	62.150 deg. F	, 0.2764 psia
dewpoint	4	(62.180)	=	62.180 deg. F	, 0.2767 psia
dewpoint	5	(76.080)	=	76.080 deg. F	, 0.4454 psia
dewpoint	6	(76.250)	=	76.250 deg. F	, 0.4479 psia
pressure	1	(52.9781)	=	52.9781 psia	
pressure	2	(52.9727)	=	52.9727 psia	

weighted averages, volume and air mass

temperature	=	84.66582 deg. F
pressure	=	52.97810 psia
vapor pressure	=	0.34469 psia
volume	=	343040 cu. ft.
dry air mass	=	89529.77 lbm

WNP2 1994 ILRT -- Stabilization

data set 29

time = 345 date = 719

sensor	raw data	value
temperature 1	(106.470)	= 106.470 deg. F
temperature 2	(93.620)	= 93.620 deg. F
temperature 3	(106.480)	= 106.480 deg. F
temperature 4	(82.890)	= 82.890 deg. F
temperature 5	(99.370)	= 99.370 deg. F
temperature 6	(83.500)	= 83.500 deg. F
temperature 7	(87.000)	= 87.000 deg. F
temperature 8	(84.660)	= 84.660 deg. F
temperature 9	(85.990)	= 85.990 deg. F
temperature 10	(102.210)	= 102.210 deg. F
temperature 11	(103.400)	= 103.400 deg. F
temperature 12	(86.100)	= 86.100 deg. F
temperature 13	(86.580)	= 86.580 deg. F
temperature 14	(81.820)	= 81.820 deg. F
temperature 15	(76.930)	= 76.930 deg. F
temperature 16	(76.870)	= 76.870 deg. F
temperature 17	(76.900)	= 76.900 deg. F
temperature 18	(77.020)	= 77.020 deg. F
dewpoint 1	(62.290)	= 62.290 deg. F , 0.2778 psia
dewpoint 2	(61.610)	= 61.610 deg. F , 0.2712 psia
dewpoint 3	(62.250)	= 62.250 deg. F , 0.2774 psia
dewpoint 4	(62.460)	= 62.460 deg. F , 0.2794 psia
dewpoint 5	(76.070)	= 76.070 deg. F , 0.4452 psia
dewpoint 6	(76.190)	= 76.190 deg. F , 0.4470 psia
pressure 1	(52.9741)	= 52.9741 psia
pressure 2	(52.9688)	= 52.9688 psia

weighted averages, volume and air mass

temperature	=	84.65074 deg. F
pressure	=	52.97410 psia
vapor pressure	=	0.34529 psia
volume	=	343040 cu. ft.
dry air mass	=	89524.42 lbm

PRE-DATA REPORT

title = WNP2 1994 ILRT

volume = 343040
leap year : no

La = 0.5000

temperature volume fractions (sum = 1.0000)

t(1)=0.0200	t(2)=0.0390	t(3)=0.0400	t(4)=0.0550	t(5)=0.0390
t(6)=0.0550	t(7)=0.0460	t(8)=0.0460	t(9)=0.0460	t(10)=0.0390
t(11)=0.0200	t(12)=0.0460	t(13)=0.0460	t(14)=0.0550	t(15)=0.1020
t(16)=0.1020	t(17)=0.1020	t(18)=0.1020		

dewpoint volume fractions (sum = 1.0000)

dp(1)=0.1150 dp(2)=0.1970 dp(3)=0.1650 dp(4)=0.1150 dp(5)=0.2040
dp(6)=0.2040

pressure volume fractions (sum = 1.0000)

p(1)=1.0000 p(2)=0.0000

WNP2 1994 ILRT

DATA SUMMARY REPORT

data set	time	date	temperature deg F	pressure psia	vapor pressure psia	dry air mass lbm
1	400	719	84.6315	52.9715	0.3459	89522.20
2	415	719	84.6199	52.9702	0.3465	89520.78
3	430	719	84.6018	52.9686	0.3469	89520.41
4	445	719	84.5954	52.9681	0.3472	89520.05
5	500	719	84.5886	52.9673	0.3480	89518.42
6	515	719	84.5839	52.9665	0.3481	89517.66
7	530	719	84.5859	52.9639	0.3486	89512.17
8	545	719	84.5704	52.9618	0.3490	89510.42
9	600	719	84.5546	52.9598	0.3500	89507.83
10	615	719	84.5450	52.9573	0.3504	89504.45
11	630	719	84.5295	52.9549	0.3514	89501.31
12	645	719	84.5099	52.9514	0.3511	89499.14
13	700	719	84.4985	52.9497	0.3518	89496.91
14	715	719	84.4823	52.9476	0.3532	89493.57
15	730	719	84.4756	52.9456	0.3534	89490.92
16	745	719	84.4697	52.9433	0.3538	89487.24
17	800	719	84.4503	52.9413	0.3543	89486.31
18	815	719	84.4440	52.9396	0.3543	89484.36
19	830	719	84.4307	52.9377	0.3542	89483.54
20	845	719	84.4329	52.9357	0.3550	89478.45
21	900	719	84.4149	52.9340	0.3552	89478.09
22	915	719	84.4076	52.9326	0.3553	89476.68
23	930	719	84.4024	52.9309	0.3561	89473.37
24	945	719	84.3919	52.9296	0.3564	89472.43
25	1000	719	84.3830	52.9285	0.3563	89472.08
26	1015	719	84.3760	52.9270	0.3569	89469.73
27	1030	719	84.3677	52.9254	0.3570	89468.15
28	1045	719	84.3647	52.9246	0.3575	89466.41
29	1100	719	84.3666	52.9235	0.3578	89463.72
30	1115	719	84.3597	52.9223	0.3586	89461.55
31	1130	719	84.3513	52.9211	0.3590	89460.19
32	1145	719	84.3460	52.9201	0.3590	89459.24
33	1200	719	84.3456	52.9193	0.3594	89457.29
34	1215	719	84.3488	52.9186	0.3598	89454.90
35	1230	719	84.3483	52.9177	0.3602	89452.81
36	1245	719	84.3541	52.9175	0.3607	89450.67
37	1300	719	84.3550	52.9169	0.3608	89449.36
38	1315	719	84.3605	52.9152	0.3613	89444.71
39	1330	719	84.3574	52.9139	0.3616	89442.42
40	1345	719	84.3529	52.9128	0.3617	89441.17
41	1400	719	84.3594	52.9121	0.3623	89437.94
42	1415	719	84.3534	52.9115	0.3627	89437.17
43	1430	719	84.3496	52.9118	0.3633	89437.28
44	1445	719	84.3587	52.9116	0.3635	89435.05
45	1500	719	84.3572	52.9102	0.3640	89432.09
46	1515	719	84.3571	52.9086	0.3641	89429.20
47	1530	719	84.3547	52.9095	0.3646	89430.39
48	1545	719	84.3632	52.9104	0.3651	89429.59
49	1600	719	84.3713	52.9106	0.3655	89427.93

WNP2 1994 ILRT

data set 1

time = 400 date = 719

sensor		raw data		value	
temperature	1	(106.460)	=	106.460 deg. F	
temperature	2	(93.670)	=	93.670 deg. F	
temperature	3	(106.400)	=	106.400 deg. F	
temperature	4	(82.870)	=	82.870 deg. F	
temperature	5	(99.420)	=	99.420 deg. F	
temperature	6	(83.500)	=	83.500 deg. F	
temperature	7	(86.990)	=	86.990 deg. F	
temperature	8	(84.640)	=	84.640 deg. F	
temperature	9	(85.940)	=	85.940 deg. F	
temperature	10	(102.230)	=	102.230 deg. F	
temperature	11	(103.430)	=	103.430 deg. F	
temperature	12	(86.070)	=	86.070 deg. F	
temperature	13	(86.540)	=	86.540 deg. F	
temperature	14	(81.830)	=	81.830 deg. F	
temperature	15	(76.910)	=	76.910 deg. F	
temperature	16	(76.840)	=	76.840 deg. F	
temperature	17	(76.860)	=	76.860 deg. F	
temperature	18	(76.980)	=	76.980 deg. F	
dewpoint	1	(62.410)	=	62.410 deg. F	, 0.2789 psia
dewpoint	2	(61.730)	=	61.730 deg. F	, 0.2723 psia
dewpoint	3	(62.350)	=	62.350 deg. F	, 0.2784 psia
dewpoint	4	(62.420)	=	62.420 deg. F	, 0.2790 psia
dewpoint	5	(76.150)	=	76.150 deg. F	, 0.4464 psia
dewpoint	6	(76.140)	=	76.140 deg. F	, 0.4463 psia
pressure	1	(52.9715)	=	52.9715 psia	
pressure	2	(52.9664)	=	52.9664 psia	

weighted averages, volume and air mass

temperature	=	84.63150 deg. F
pressure	=	52.97150 psia
vapor pressure	=	0.34586 psia
volume	=	343040 cu. ft.
dry air mass	=	89522.20 lbm

WNP2 1994 ILRT

data set 2

time = 415 date = 719

sensor	raw data	value
temperature 1	(106.430)	= 106.430 deg. F
temperature 2	(93.710)	= 93.710 deg. F
temperature 3	(106.370)	= 106.370 deg. F
temperature 4	(82.880)	= 82.880 deg. F
temperature 5	(99.440)	= 99.440 deg. F
temperature 6	(83.490)	= 83.490 deg. F
temperature 7	(86.970)	= 86.970 deg. F
temperature 8	(84.610)	= 84.610 deg. F
temperature 9	(85.950)	= 85.950 deg. F
temperature 10	(102.240)	= 102.240 deg. F
temperature 11	(103.420)	= 103.420 deg. F
temperature 12	(86.060)	= 86.060 deg. F
temperature 13	(86.550)	= 86.550 deg. F
temperature 14	(81.810)	= 81.810 deg. F
temperature 15	(76.880)	= 76.880 deg. F
temperature 16	(76.820)	= 76.820 deg. F
temperature 17	(76.840)	= 76.840 deg. F
temperature 18	(76.960)	= 76.960 deg. F
dewpoint 1	(62.540)	= 62.540 deg. F , 0.2802 psia
dewpoint 2	(61.840)	= 61.840 deg. F , 0.2734 psia
dewpoint 3	(62.550)	= 62.550 deg. F , 0.2803 psia
dewpoint 4	(62.580)	= 62.580 deg. F , 0.2806 psia
dewpoint 5	(76.120)	= 76.120 deg. F , 0.4460 psia
dewpoint 6	(76.100)	= 76.100 deg. F , 0.4457 psia
pressure 1	(52.9702)	= 52.9702 psia
pressure 2	(52.9649)	= 52.9649 psia

weighted averages, volume and air mass

temperature	=	84.61991 deg. F
pressure	=	52.97020 psia
vapor pressure	=	0.34651 psia
volume	=	343040 cu. ft.
dry air mass	=	89520.78 lbm

WNP2 1994 ILRT

data set 3

time = 430 date = 719

sensor		raw data		value	
temperature	1	(106.380)	=	106.380 deg.	F
temperature	2	(93.740)	=	93.740 deg.	F
temperature	3	(106.370)	=	106.370 deg.	F
temperature	4	(82.880)	=	82.880 deg.	F
temperature	5	(99.460)	=	99.460 deg.	F
temperature	6	(83.480)	=	83.480 deg.	F
temperature	7	(86.980)	=	86.980 deg.	F
temperature	8	(84.590)	=	84.590 deg.	F
temperature	9	(85.900)	=	85.900 deg.	F
temperature	10	(102.220)	=	102.220 deg.	F
temperature	11	(103.430)	=	103.430 deg.	F
temperature	12	(86.070)	=	86.070 deg.	F
temperature	13	(86.530)	=	86.530 deg.	F
temperature	14	(81.790)	=	81.790 deg.	F
temperature	15	(76.850)	=	76.850 deg.	F
temperature	16	(76.780)	=	76.780 deg.	F
temperature	17	(76.810)	=	76.810 deg.	F
temperature	18	(76.930)	=	76.930 deg.	F
dewpoint	1	(62.580)	=	62.580 deg. F ,	0.2806 psia
dewpoint	2	(61.960)	=	61.960 deg. F ,	0.2746 psia
dewpoint	3	(62.690)	=	62.690 deg. F ,	0.2817 psia
dewpoint	4	(62.730)	=	62.730 deg. F ,	0.2821 psia
dewpoint	5	(76.010)	=	76.010 deg. F ,	0.4443 psia
dewpoint	6	(76.110)	=	76.110 deg. F ,	0.4458 psia
pressure	1	(52.9686)	=	52.9686 psia	
pressure	2	(52.9634)	=	52.9634 psia	

weighted averages, volume and air mass

temperature	=	84.60181 deg. F
pressure	=	52.96860 psia
vapor pressure	=	0.34688 psia
volume	=	343040 cu. ft.
dry air mass	=	89520.41 lbm

WNP2 1994 ILRT

data set 4

time = 445 date = 719

sensor		raw data		value	
temperature	1	(106.370)	=	106.370	deg. F
temperature	2	(93.770)	=	93.770	deg. F
temperature	3	(106.330)	=	106.330	deg. F
temperature	4	(82.860)	=	82.860	deg. F
temperature	5	(99.480)	=	99.480	deg. F
temperature	6	(83.470)	=	83.470	deg. F
temperature	7	(86.960)	=	86.960	deg. F
temperature	8	(84.590)	=	84.590	deg. F
temperature	9	(85.950)	=	85.950	deg. F
temperature	10	(102.250)	=	102.250	deg. F
temperature	11	(103.410)	=	103.410	deg. F
temperature	12	(86.040)	=	86.040	deg. F
temperature	13	(86.530)	=	86.530	deg. F
temperature	14	(81.820)	=	81.820	deg. F
temperature	15	(76.830)	=	76.830	deg. F
temperature	16	(76.770)	=	76.770	deg. F
temperature	17	(76.790)	=	76.790	deg. F
temperature	18	(76.910)	=	76.910	deg. F
dewpoint	1	(62.700)	=	62.700	deg. F , 0.2818 psia
dewpoint	2	(62.070)	=	62.070	deg. F , 0.2756 psia
dewpoint	3	(62.800)	=	62.800	deg. F , 0.2828 psia
dewpoint	4	(62.770)	=	62.770	deg. F , 0.2825 psia
dewpoint	5	(76.020)	=	76.020	deg. F , 0.4445 psia
dewpoint	6	(76.020)	=	76.020	deg. F , 0.4445 psia
pressure	1	(52.9681)	=	52.9681	psia
pressure	2	(52.9629)	=	52.9629	psia

weighted averages, volume and air mass

temperature	=	84.59539 deg. F
pressure	=	52.96810 psia
vapor pressure	=	0.34721 psia
volume	=	343040 cu. ft.
dry air mass	=	89520.05 lbm



WNP2 1994 ILRT

data set 5

time = 500 date = 719

sensor	raw data	value
temperature 1	(106.330)	= 106.330 deg. F
temperature 2	(93.810)	= 93.810 deg. F
temperature 3	(106.300)	= 106.300 deg. F
temperature 4	(82.920)	= 82.920 deg. F
temperature 5	(99.510)	= 99.510 deg. F
temperature 6	(83.480)	= 83.480 deg. F
temperature 7	(86.960)	= 86.960 deg. F
temperature 8	(84.600)	= 84.600 deg. F
temperature 9	(85.900)	= 85.900 deg. F
temperature 10	(102.250)	= 102.250 deg. F
temperature 11	(103.430)	= 103.430 deg. F
temperature 12	(86.040)	= 86.040 deg. F
temperature 13	(86.530)	= 86.530 deg. F
temperature 14	(81.810)	= 81.810 deg. F
temperature 15	(76.810)	= 76.810 deg. F
temperature 16	(76.740)	= 76.740 deg. F
temperature 17	(76.770)	= 76.770 deg. F
temperature 18	(76.890)	= 76.890 deg. F
dewpoint 1	(62.830)	= 62.830 deg. F , 0.2831 psia
dewpoint 2	(62.210)	= 62.210 deg. F , 0.2770 psia
dewpoint 3	(62.870)	= 62.870 deg. F , 0.2835 psia
dewpoint 4	(62.860)	= 62.860 deg. F , 0.2834 psia
dewpoint 5	(76.060)	= 76.060 deg. F , 0.4451 psia
dewpoint 6	(76.040)	= 76.040 deg. F , 0.4448 psia
pressure 1	(52.9673)	= 52.9673 psia
pressure 2	(52.9621)	= 52.9621 psia

weighted averages, volume and air mass

temperature	=	84.58860 deg. F
pressure	=	52.96730 psia
vapor pressure	=	0.34803 psia
volume	=	343040 cu. ft.
dry air mass	=	89518.42 lbm

WNP2 1994 ILRT

data set 6

time = 515 date = 719

sensor	raw data	value
temperature 1	(106.340)	= 106.340 deg. F
temperature 2	(93.860)	= 93.860 deg. F
temperature 3	(106.290)	= 106.290 deg. F
temperature 4	(82.930)	= 82.930 deg. F
temperature 5	(99.550)	= 99.550 deg. F
temperature 6	(83.490)	= 83.490 deg. F
temperature 7	(86.940)	= 86.940 deg. F
temperature 8	(84.610)	= 84.610 deg. F
temperature 9	(85.920)	= 85.920 deg. F
temperature 10	(102.260)	= 102.260 deg. F
temperature 11	(103.470)	= 103.470 deg. F
temperature 12	(86.040)	= 86.040 deg. F
temperature 13	(86.540)	= 86.540 deg. F
temperature 14	(81.820)	= 81.820 deg. F
temperature 15	(76.790)	= 76.790 deg. F
temperature 16	(76.720)	= 76.720 deg. F
temperature 17	(76.730)	= 76.730 deg. F
temperature 18	(76.860)	= 76.860 deg. F
dewpoint 1	(62.980)	= 62.980 deg. F , 0.2846 psia
dewpoint 2	(62.330)	= 62.330 deg. F , 0.2782 psia
dewpoint 3	(62.960)	= 62.960 deg. F , 0.2844 psia
dewpoint 4	(62.940)	= 62.940 deg. F , 0.2842 psia
dewpoint 5	(75.940)	= 75.940 deg. F , 0.4433 psia
dewpoint 6	(75.980)	= 75.980 deg. F , 0.4439 psia
pressure 1	(52.9665)	= 52.9665 psia
pressure 2	(52.9612)	= 52.9612 psia

weighted averages, volume and air mass

temperature	=	84.58387 deg. F
pressure	=	52.96650 psia
vapor pressure	=	0.34813 psia
volume	=	343040 cu. ft.
dry air mass	=	89517.66 lbm

WNP2 1994 ILRT

data set 7

time = 530 date = 719

sensor		raw data		value	
temperature	1	(106.360)	=	106.360	deg. F
temperature	2	(93.920)	=	93.920	deg. F
temperature	3	(106.300)	=	106.300	deg. F
temperature	4	(82.900)	=	82.900	deg. F
temperature	5	(99.590)	=	99.590	deg. F
temperature	6	(83.490)	=	83.490	deg. F
temperature	7	(86.960)	=	86.960	deg. F
temperature	8	(84.610)	=	84.610	deg. F
temperature	9	(85.970)	=	85.970	deg. F
temperature	10	(102.300)	=	102.300	deg. F
temperature	11	(103.520)	=	103.520	deg. F
temperature	12	(86.050)	=	86.050	deg. F
temperature	13	(86.550)	=	86.550	deg. F
temperature	14	(81.840)	=	81.840	deg. F
temperature	15	(76.770)	=	76.770	deg. F
temperature	16	(76.700)	=	76.700	deg. F
temperature	17	(76.720)	=	76.720	deg. F
temperature	18	(76.830)	=	76.830	deg. F
dewpoint	1	(63.080)	=	63.080	deg. F , 0.2856 psia
dewpoint	2	(62.440)	=	62.440	deg. F , 0.2792 psia
dewpoint	3	(63.080)	=	63.080	deg. F , 0.2856 psia
dewpoint	4	(63.140)	=	63.140	deg. F , 0.2862 psia
dewpoint	5	(75.860)	=	75.860	deg. F , 0.4421 psia
dewpoint	6	(75.950)	=	75.950	deg. F , 0.4435 psia
pressure	1	(52.9639)	=	52.9639	psia
pressure	2	(52.9585)	=	52.9585	psia

weighted averages, volume and air mass

temperature	=	84.58595	deg. F
pressure	=	52.96390	psia
vapor pressure	=	0.34855	psia
volume	=	343040	cu. ft.
dry air mass	=	89512.17	lbm

WNP2 1994 ILRT

data set 8

time = 545 date = 719

sensor		raw data		value	
temperature	1	(106.340)	=	106.340	deg. F
temperature	2	(93.960)	=	93.960	deg. F
temperature	3	(106.300)	=	106.300	deg. F
temperature	4	(82.910)	=	82.910	deg. F
temperature	5	(99.620)	=	99.620	deg. F
temperature	6	(83.480)	=	83.480	deg. F
temperature	7	(86.940)	=	86.940	deg. F
temperature	8	(84.600)	=	84.600	deg. F
temperature	9	(85.940)	=	85.940	deg. F
temperature	10	(102.280)	=	102.280	deg. F
temperature	11	(103.540)	=	103.540	deg. F
temperature	12	(86.050)	=	86.050	deg. F
temperature	13	(86.540)	=	86.540	deg. F
temperature	14	(81.830)	=	81.830	deg. F
temperature	15	(76.730)	=	76.730	deg. F
temperature	16	(76.660)	=	76.660	deg. F
temperature	17	(76.690)	=	76.690	deg. F
temperature	18	(76.810)	=	76.810	deg. F
dewpoint	1	(63.180)	=	63.180	deg. F , 0.2866 psia
dewpoint	2	(62.540)	=	62.540	deg. F , 0.2802 psia
dewpoint	3	(63.190)	=	63.190	deg. F , 0.2867 psia
dewpoint	4	(63.160)	=	63.160	deg. F , 0.2864 psia
dewpoint	5	(75.790)	=	75.790	deg. F , 0.4411 psia
dewpoint	6	(75.990)	=	75.990	deg. F , 0.4441 psia
pressure	1	(52.9618)	=	52.9618	psia
pressure	2	(52.9564)	=	52.9564	psia

weighted averages, volume and air mass

temperature	=	84.57043 deg. F
pressure	=	52.96180 psia
vapor pressure	=	0.34898 psia
volume	=	343040 cu. ft.
dry air mass	=	89510.42 lbm

WNP2 1994 ILRT

data set 9

time = 600 date = 719

sensor		raw data		value	
temperature	1	(106.310)	=	106.310 deg. F	
temperature	2	(94.010)	=	94.010 deg. F	
temperature	3	(106.280)	=	106.280 deg. F	
temperature	4	(82.900)	=	82.900 deg. F	
temperature	5	(99.650)	=	99.650 deg. F	
temperature	6	(83.480)	=	83.480 deg. F	
temperature	7	(86.950)	=	86.950 deg. F	
temperature	8	(84.590)	=	84.590 deg. F	
temperature	9	(85.830)	=	85.830 deg. F	
temperature	10	(102.300)	=	102.300 deg. F	
temperature	11	(103.520)	=	103.520 deg. F	
temperature	12	(86.000)	=	86.000 deg. F	
temperature	13	(86.530)	=	86.530 deg. F	
temperature	14	(81.810)	=	81.810 deg. F	
temperature	15	(76.710)	=	76.710 deg. F	
temperature	16	(76.650)	=	76.650 deg. F	
temperature	17	(76.670)	=	76.670 deg. F	
temperature	18	(76.780)	=	76.780 deg. F	
dewpoint	1	(63.320)	=	63.320 deg. F	, 0.2880 psia
dewpoint	2	(62.680)	=	62.680 deg. F	, 0.2816 psia
dewpoint	3	(63.400)	=	63.400 deg. F	, 0.2888 psia
dewpoint	4	(63.210)	=	63.210 deg. F	, 0.2869 psia
dewpoint	5	(75.840)	=	75.840 deg. F	, 0.4418 psia
dewpoint	6	(76.010)	=	76.010 deg. F	, 0.4443 psia
pressure	1	(52.9598)	=	52.9598 psia	
pressure	2	(52.9547)	=	52.9547 psia	

weighted averages, volume and air mass

temperature	=	84.55463 deg. F
pressure	=	52.95980 psia
vapor pressure	=	0.35003 psia
volume	=	343040 cu. ft.
dry air mass	=	89507.83 lbm

WNP2 1994 ILRT

data set 10

time = 615 date = 719

sensor		raw data		value	
temperature	1	(106.300)	=	106.300 deg. F	
temperature	2	(94.030)	=	94.030 deg. F	
temperature	3	(106.210)	=	106.210 deg. F	
temperature	4	(82.920)	=	82.920 deg. F	
temperature	5	(99.670)	=	99.670 deg. F	
temperature	6	(83.460)	=	83.460 deg. F	
temperature	7	(86.940)	=	86.940 deg. F	
temperature	8	(84.550)	=	84.550 deg. F	
temperature	9	(85.880)	=	85.880 deg. F	
temperature	10	(102.310)	=	102.310 deg. F	
temperature	11	(103.540)	=	103.540 deg. F	
temperature	12	(86.010)	=	86.010 deg. F	
temperature	13	(86.530)	=	86.530 deg. F	
temperature	14	(81.790)	=	81.790 deg. F	
temperature	15	(76.690)	=	76.690 deg. F	
temperature	16	(76.620)	=	76.620 deg. F	
temperature	17	(76.660)	=	76.660 deg. F	
temperature	18	(76.760)	=	76.760 deg. F	
dewpoint	1	(63.390)	=	63.390 deg. F	, 0.2887 psia
dewpoint	2	(62.740)	=	62.740 deg. F	, 0.2822 psia
dewpoint	3	(63.400)	=	63.400 deg. F	, 0.2888 psia
dewpoint	4	(63.290)	=	63.290 deg. F	, 0.2877 psia
dewpoint	5	(75.950)	=	75.950 deg. F	, 0.4435 psia
dewpoint	6	(75.940)	=	75.940 deg. F	, 0.4433 psia
pressure	1	(52.9573)	=	52.9573 psia	
pressure	2	(52.9528)	=	52.9528 psia	

weighted averages, volume and air mass

temperature	=	84.54504 deg. F
pressure	=	52.95730 psia
vapor pressure	=	0.35044 psia
volume	=	343040 cu. ft.
dry air mass	=	89504.45 lbm

WNP2 1994 ILRT

data set 11

time = 630 date = 719

sensor		raw data		value	
temperature	1	(106.280)	=	106.280	deg. F
temperature	2	(94.060)	=	94.060	deg. F
temperature	3	(106.190)	=	106.190	deg. F
temperature	4	(82.890)	=	82.890	deg. F
temperature	5	(99.690)	=	99.690	deg. F
temperature	6	(83.450)	=	83.450	deg. F
temperature	7	(86.930)	=	86.930	deg. F
temperature	8	(84.540)	=	84.540	deg. F
temperature	9	(85.930)	=	85.930	deg. F
temperature	10	(102.320)	=	102.320	deg. F
temperature	11	(103.540)	=	103.540	deg. F
temperature	12	(85.990)	=	85.990	deg. F
temperature	13	(86.490)	=	86.490	deg. F
temperature	14	(81.800)	=	81.800	deg. F
temperature	15	(76.660)	=	76.660	deg. F
temperature	16	(76.590)	=	76.590	deg. F
temperature	17	(76.620)	=	76.620	deg. F
temperature	18	(76.730)	=	76.730	deg. F
dewpoint	1	(63.480)	=	63.480	deg. F , 0.2896 psia
dewpoint	2	(62.860)	=	62.860	deg. F , 0.2834 psia
dewpoint	3	(63.560)	=	63.560	deg. F , 0.2905 psia
dewpoint	4	(63.530)	=	63.530	deg. F , 0.2901 psia
dewpoint	5	(76.020)	=	76.020	deg. F , 0.4445 psia
dewpoint	6	(75.890)	=	75.890	deg. F , 0.4426 psia
pressure	1	(52.9549)	=	52.9549	psia
pressure	2	(52.9506)	=	52.9506	psia

weighted averages, volume and air mass

temperature	=	84.52946	deg. F
pressure	=	52.95490	psia
vapor pressure	=	0.35139	psia
volume	=	343040	cu. ft.
dry air mass	=	89501.31	lbm

WNP2 1994 ILRT

data set 12

time = 645 date = 719

sensor	raw data	value
temperature 1	(106.290)	= 106.290 deg. F
temperature 2	(94.120)	= 94.120 deg. F
temperature 3	(106.160)	= 106.160 deg. F
temperature 4	(82.850)	= 82.850 deg. F
temperature 5	(99.710)	= 99.710 deg. F
temperature 6	(83.420)	= 83.420 deg. F
temperature 7	(86.910)	= 86.910 deg. F
temperature 8	(84.520)	= 84.520 deg. F
temperature 9	(85.830)	= 85.830 deg. F
temperature 10	(102.330)	= 102.330 deg. F
temperature 11	(103.540)	= 103.540 deg. F
temperature 12	(85.960)	= 85.960 deg. F
temperature 13	(86.520)	= 86.520 deg. F
temperature 14	(81.760)	= 81.760 deg. F
temperature 15	(76.640)	= 76.640 deg. F
temperature 16	(76.570)	= 76.570 deg. F
temperature 17	(76.600)	= 76.600 deg. F
temperature 18	(76.700)	= 76.700 deg. F
dewpoint 1	(63.580)	= 63.580 deg. F , 0.2907 psia
dewpoint 2	(62.970)	= 62.970 deg. F , 0.2845 psia
dewpoint 3	(63.650)	= 63.650 deg. F , 0.2914 psia
dewpoint 4	(63.420)	= 63.420 deg. F , 0.2890 psia
dewpoint 5	(75.810)	= 75.810 deg. F , 0.4414 psia
dewpoint 6	(75.870)	= 75.870 deg. F , 0.4423 psia
pressure 1	(52.9514)	= 52.9514 psia
pressure 2	(52.9470)	= 52.9470 psia

weighted averages, volume and air mass

temperature	=	84.50995 deg. F
pressure	=	52.95140 psia
vapor pressure	=	0.35106 psia
volume	=	343040 cu. ft.
dry air mass	=	89499.14 lbm

WNP2 1994 ILRT

data set 13

time = 700 date = 719

sensor		raw data		value	
temperature	1	(106.280)	=	106.280	deg. F
temperature	2	(94.140)	=	94.140	deg. F
temperature	3	(106.080)	=	106.080	deg. F
temperature	4	(82.840)	=	82.840	deg. F
temperature	5	(99.730)	=	99.730	deg. F
temperature	6	(83.410)	=	83.410	deg. F
temperature	7	(86.890)	=	86.890	deg. F
temperature	8	(84.500)	=	84.500	deg. F
temperature	9	(85.870)	=	85.870	deg. F
temperature	10	(102.320)	=	102.320	deg. F
temperature	11	(103.540)	=	103.540	deg. F
temperature	12	(85.950)	=	85.950	deg. F
temperature	13	(86.510)	=	86.510	deg. F
temperature	14	(81.760)	=	81.760	deg. F
temperature	15	(76.620)	=	76.620	deg. F
temperature	16	(76.550)	=	76.550	deg. F
temperature	17	(76.580)	=	76.580	deg. F
temperature	18	(76.690)	=	76.690	deg. F
dewpoint	1	(63.670)	=	63.670	deg. F , 0.2916 psia
dewpoint	2	(63.060)	=	63.060	deg. F , 0.2854 psia
dewpoint	3	(63.670)	=	63.670	deg. F , 0.2916 psia
dewpoint	4	(63.580)	=	63.580	deg. F , 0.2907 psia
dewpoint	5	(75.880)	=	75.880	deg. F , 0.4424 psia
dewpoint	6	(75.870)	=	75.870	deg. F , 0.4423 psia
pressure	1	(52.9497)	=	52.9497	psia
pressure	2	(52.9450)	=	52.9450	psia

weighted averages, volume and air mass

temperature	=	84.49854	deg. F
pressure	=	52.94970	psia
vapor pressure	=	0.35177	psia
volume	=	343040	cu. ft.
dry air mass	=	89496.91	lbm

WNP2 1994 ILRT

data set 14

time = 715 date = 719

sensor		raw data		value	
temperature	1	(106.230)	=	106.230	deg. F
temperature	2	(94.190)	=	94.190	deg. F
temperature	3	(106.100)	=	106.100	deg. F
temperature	4	(82.810)	=	82.810	deg. F
temperature	5	(99.750)	=	99.750	deg. F
temperature	6	(83.390)	=	83.390	deg. F
temperature	7	(86.900)	=	86.900	deg. F
temperature	8	(84.470)	=	84.470	deg. F
temperature	9	(85.810)	=	85.810	deg. F
temperature	10	(102.320)	=	102.320	deg. F
temperature	11	(103.560)	=	103.560	deg. F
temperature	12	(85.950)	=	85.950	deg. F
temperature	13	(86.480)	=	86.480	deg. F
temperature	14	(81.710)	=	81.710	deg. F
temperature	15	(76.600)	=	76.600	deg. F
temperature	16	(76.530)	=	76.530	deg. F
temperature	17	(76.560)	=	76.560	deg. F
temperature	18	(76.670)	=	76.670	deg. F
dewpoint	1	(63.770)	=	63.770	deg. F , 0.2926 psia
dewpoint	2	(63.170)	=	63.170	deg. F , 0.2865 psia
dewpoint	3	(63.860)	=	63.860	deg. F , 0.2935 psia
dewpoint	4	(63.850)	=	63.850	deg. F , 0.2934 psia
dewpoint	5	(76.090)	=	76.090	deg. F , 0.4455 psia
dewpoint	6	(75.810)	=	75.810	deg. F , 0.4414 psia
pressure	1	(52.9476)	=	52.9476	psia
pressure	2	(52.9428)	=	52.9428	psia

weighted averages, volume and air mass

temperature	=	84.48234 deg. F
pressure	=	52.94760 psia
vapor pressure	=	0.35320 psia
volume	=	343040 cu. ft.
dry air mass	=	89493.57 lbm

WNP2 1994 ILRT

data set 15

time = 730 date = 719

sensor	raw data	value
temperature 1	(106.280)	= 106.280 deg. F
temperature 2	(94.230)	= 94.230 deg. F
temperature 3	(106.070)	= 106.070 deg. F
temperature 4	(82.800)	= 82.800 deg. F
temperature 5	(99.780)	= 99.780 deg. F
temperature 6	(83.380)	= 83.380 deg. F
temperature 7	(86.870)	= 86.870 deg. F
temperature 8	(84.470)	= 84.470 deg. F
temperature 9	(85.830)	= 85.830 deg. F
temperature 10	(102.350)	= 102.350 deg. F
temperature 11	(103.590)	= 103.590 deg. F
temperature 12	(85.940)	= 85.940 deg. F
temperature 13	(86.480)	= 86.480 deg. F
temperature 14	(81.740)	= 81.740 deg. F
temperature 15	(76.590)	= 76.590 deg. F
temperature 16	(76.500)	= 76.500 deg. F
temperature 17	(76.530)	= 76.530 deg. F
temperature 18	(76.640)	= 76.640 deg. F
dewpoint 1	(63.900)	= 63.900 deg. F , 0.2939 psia
dewpoint 2	(63.290)	= 63.290 deg. F , 0.2877 psia
dewpoint 3	(63.980)	= 63.980 deg. F , 0.2948 psia
dewpoint 4	(63.800)	= 63.800 deg. F , 0.2929 psia
dewpoint 5	(76.010)	= 76.010 deg. F , 0.4443 psia
dewpoint 6	(75.780)	= 75.780 deg. F , 0.4410 psia
pressure 1	(52.9456)	= 52.9456 psia
pressure 2	(52.9407)	= 52.9407 psia

weighted averages, volume and air mass

temperature	=	84.47562 deg. F
pressure	=	52.94560 psia
vapor pressure	=	0.35341 psia
volume	=	343040 cu. ft.
dry air mass	=	89490.92 lbm

WNP2 1994 ILRT

data set 16

time = 745 date = 719

sensor		raw data		value	
temperature	1	(106.240)	=	106.240	deg. F
temperature	2	(94.260)	=	94.260	deg. F
temperature	3	(106.050)	=	106.050	deg. F
temperature	4	(82.810)	=	82.810	deg. F
temperature	5	(99.800)	=	99.800	deg. F
temperature	6	(83.370)	=	83.370	deg. F
temperature	7	(86.880)	=	86.880	deg. F
temperature	8	(84.460)	=	84.460	deg. F
temperature	9	(85.870)	=	85.870	deg. F
temperature	10	(102.360)	=	102.360	deg. F
temperature	11	(103.580)	=	103.580	deg. F
temperature	12	(85.930)	=	85.930	deg. F
temperature	13	(86.480)	=	86.480	deg. F
temperature	14	(81.730)	=	81.730	deg. F
temperature	15	(76.570)	=	76.570	deg. F
temperature	16	(76.490)	=	76.490	deg. F
temperature	17	(76.510)	=	76.510	deg. F
temperature	18	(76.620)	=	76.620	deg. F
dewpoint	1	(64.000)	=	64.000	deg. F , 0.2950 psia
dewpoint	2	(63.380)	=	63.380	deg. F , 0.2886 psia
dewpoint	3	(64.030)	=	64.030	deg. F , 0.2953 psia
dewpoint	4	(63.850)	=	63.850	deg. F , 0.2934 psia
dewpoint	5	(75.980)	=	75.980	deg. F , 0.4439 psia
dewpoint	6	(75.810)	=	75.810	deg. F , 0.4414 psia
pressure	1	(52.9433)	=	52.9433	psia
pressure	2	(52.9386)	=	52.9386	psia

weighted averages, volume and air mass

temperature	=	84.46965 deg. F
pressure	=	52.94330 psia
vapor pressure	=	0.35385 psia
volume	=	343040 cu. ft.
dry air mass	=	89487.24 lbm

WNP2 1994 ILRT

data set 17

time = 800 date = 719

sensor		raw data		value	
temperature	1	(106.270)	=	106.270	deg. F
temperature	2	(94.290)	=	94.290	deg. F
temperature	3	(106.000)	=	106.000	deg. F
temperature	4	(82.760)	=	82.760	deg. F
temperature	5	(99.830)	=	99.830	deg. F
temperature	6	(83.360)	=	83.360	deg. F
temperature	7	(86.890)	=	86.890	deg. F
temperature	8	(84.450)	=	84.450	deg. F
temperature	9	(85.750)	=	85.750	deg. F
temperature	10	(102.360)	=	102.360	deg. F
temperature	11	(103.600)	=	103.600	deg. F
temperature	12	(85.900)	=	85.900	deg. F
temperature	13	(86.460)	=	86.460	deg. F
temperature	14	(81.690)	=	81.690	deg. F
temperature	15	(76.540)	=	76.540	deg. F
temperature	16	(76.480)	=	76.480	deg. F
temperature	17	(76.500)	=	76.500	deg. F
temperature	18	(76.600)	=	76.600	deg. F
dewpoint	1	(64.060)	=	64.060	deg. F , 0.2956 psia
dewpoint	2	(63.460)	=	63.460	deg. F , 0.2894 psia
dewpoint	3	(64.100)	=	64.100	deg. F , 0.2960 psia
dewpoint	4	(63.980)	=	63.980	deg. F , 0.2948 psia
dewpoint	5	(75.950)	=	75.950	deg. F , 0.4435 psia
dewpoint	6	(75.810)	=	75.810	deg. F , 0.4414 psia
pressure	1	(52.9413)	=	52.9413	psia
pressure	2	(52.9364)	=	52.9364	psia

weighted averages, volume and air mass

temperature	=	84.45032 deg. F
pressure	=	52.94130 psia
vapor pressure	=	0.35426 psia
volume	=	343040 cu. ft.
dry air mass	=	89486.31 lbm

WNP2 1994 ILRT

data set 18

time = 815 date = 719

sensor		raw data		value	
temperature	1	(106.230)	=	106.230	deg. F
temperature	2	(94.320)	=	94.320	deg. F
temperature	3	(106.020)	=	106.020	deg. F
temperature	4	(82.790)	=	82.790	deg. F
temperature	5	(99.840)	=	99.840	deg. F
temperature	6	(83.350)	=	83.350	deg. F
temperature	7	(86.900)	=	86.900	deg. F
temperature	8	(84.440)	=	84.440	deg. F
temperature	9	(85.770)	=	85.770	deg. F
temperature	10	(102.370)	=	102.370	deg. F
temperature	11	(103.590)	=	103.590	deg. F
temperature	12	(85.880)	=	85.880	deg. F
temperature	13	(86.460)	=	86.460	deg. F
temperature	14	(81.660)	=	81.660	deg. F
temperature	15	(76.530)	=	76.530	deg. F
temperature	16	(76.450)	=	76.450	deg. F
temperature	17	(76.480)	=	76.480	deg. F
temperature	18	(76.590)	=	76.590	deg. F
dewpoint	1	(64.150)	=	64.150	deg. F , 0.2965 psia
dewpoint	2	(63.530)	=	63.530	deg. F , 0.2901 psia
dewpoint	3	(64.200)	=	64.200	deg. F , 0.2970 psia
dewpoint	4	(64.000)	=	64.000	deg. F , 0.2950 psia
dewpoint	5	(75.880)	=	75.880	deg. F , 0.4424 psia
dewpoint	6	(75.750)	=	75.750	deg. F , 0.4405 psia
pressure	1	(52.9396)	=	52.9396	psia
pressure	2	(52.9346)	=	52.9346	psia

weighted averages, volume and air mass

temperature	=	84.44405 deg. F
pressure	=	52.93960 psia
vapor pressure	=	0.35431 psia
volume	=	343040 cu. ft.
dry air mass	=	89484.36 lbm

WNP2 1994 ILRT

data set 19

time = 830 date = 719

sensor		raw data		value	
temperature	1	(106.250)	=	106.250 deg. F	
temperature	2	(94.350)	=	94.350 deg. F	
temperature	3	(105.930)	=	105.930 deg. F	
temperature	4	(82.760)	=	82.760 deg. F	
temperature	5	(99.870)	=	99.870 deg. F	
temperature	6	(83.330)	=	83.330 deg. F	
temperature	7	(86.850)	=	86.850 deg. F	
temperature	8	(84.420)	=	84.420 deg. F	
temperature	9	(85.770)	=	85.770 deg. F	
temperature	10	(102.380)	=	102.380 deg. F	
temperature	11	(103.600)	=	103.600 deg. F	
temperature	12	(85.890)	=	85.890 deg. F	
temperature	13	(86.440)	=	86.440 deg. F	
temperature	14	(81.690)	=	81.690 deg. F	
temperature	15	(76.500)	=	76.500 deg. F	
temperature	16	(76.440)	=	76.440 deg. F	
temperature	17	(76.460)	=	76.460 deg. F	
temperature	18	(76.570)	=	76.570 deg. F	
dewpoint	1	(64.260)	=	64.260 deg. F	, 0.2977 psia
dewpoint	2	(63.650)	=	63.650 deg. F	, 0.2914 psia
dewpoint	3	(64.290)	=	64.290 deg. F	, 0.2980 psia
dewpoint	4	(64.100)	=	64.100 deg. F	, 0.2960 psia
dewpoint	5	(75.620)	=	75.620 deg. F	, 0.4386 psia
dewpoint	6	(75.750)	=	75.750 deg. F	, 0.4405 psia
pressure	1	(52.9377)	=	52.9377 psia	
pressure	2	(52.9327)	=	52.9327 psia	

weighted averages, volume and air mass

temperature	=	84.43074 deg. F
pressure	=	52.93770 psia
vapor pressure	=	0.35418 psia
volume	=	343040 cu. ft.
dry air mass	=	89483.54 lbm

WNP2 1994 ILRT

data set 20

time = 845 date = 719

sensor	raw data	value
temperature 1	(106.240)	= 106.240 deg. F
temperature 2	(94.390)	= 94.390 deg. F
temperature 3	(105.930)	= 105.930 deg. F
temperature 4	(82.760)	= 82.760 deg. F
temperature 5	(99.890)	= 99.890 deg. F
temperature 6	(83.320)	= 83.320 deg. F
temperature 7	(86.880)	= 86.880 deg. F
temperature 8	(84.420)	= 84.420 deg. F
temperature 9	(85.790)	= 85.790 deg. F
temperature 10	(102.400)	= 102.400 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.870)	= 85.870 deg. F
temperature 13	(86.460)	= 86.460 deg. F
temperature 14	(81.660)	= 81.660 deg. F
temperature 15	(76.500)	= 76.500 deg. F
temperature 16	(76.430)	= 76.430 deg. F
temperature 17	(76.460)	= 76.460 deg. F
temperature 18	(76.570)	= 76.570 deg. F
dewpoint 1	(64.300)	= 64.300 deg. F , 0.2981 psia
dewpoint 2	(63.720)	= 63.720 deg. F , 0.2921 psia
dewpoint 3	(64.450)	= 64.450 deg. F , 0.2996 psia
dewpoint 4	(64.290)	= 64.290 deg. F , 0.2980 psia
dewpoint 5	(75.720)	= 75.720 deg. F , 0.4401 psia
dewpoint 6	(75.680)	= 75.680 deg. F , 0.4395 psia
pressure 1	(52.9357)	= 52.9357 psia
pressure 2	(52.9308)	= 52.9308 psia

weighted averages, volume and air mass

temperature	=	84.43291 deg. F
pressure	=	52.93570 psia
vapor pressure	=	0.35496 psia
volume	=	343040 cu. ft.
dry air mass	=	89478.45 lbm

WNP2 1994 ILRT

data set 21

time = 900 date = 719

sensor		raw data		value	
temperature	1	(106.240)	=	106.240 deg. F	
temperature	2	(94.430)	=	94.430 deg. F	
temperature	3	(105.890)	=	105.890 deg. F	
temperature	4	(82.710)	=	82.710 deg. F	
temperature	5	(99.910)	=	99.910 deg. F	
temperature	6	(83.300)	=	83.300 deg. F	
temperature	7	(86.860)	=	86.860 deg. F	
temperature	8	(84.400)	=	84.400 deg. F	
temperature	9	(85.730)	=	85.730 deg. F	
temperature	10	(102.380)	=	102.380 deg. F	
temperature	11	(103.610)	=	103.610 deg. F	
temperature	12	(85.890)	=	85.890 deg. F	
temperature	13	(86.440)	=	86.440 deg. F	
temperature	14	(81.680)	=	81.680 deg. F	
temperature	15	(76.470)	=	76.470 deg. F	
temperature	16	(76.420)	=	76.420 deg. F	
temperature	17	(76.430)	=	76.430 deg. F	
temperature	18	(76.540)	=	76.540 deg. F	
dewpoint	1	(64.410)	=	64.410 deg. F	, 0.2992 psia
dewpoint	2	(63.840)	=	63.840 deg. F	, 0.2933 psia
dewpoint	3	(64.500)	=	64.500 deg. F	, 0.3002 psia
dewpoint	4	(64.290)	=	64.290 deg. F	, 0.2980 psia
dewpoint	5	(75.640)	=	75.640 deg. F	, 0.4389 psia
dewpoint	6	(75.690)	=	75.690 deg. F	, 0.4396 psia
pressure	1	(52.9340)	=	52.9340 psia	
pressure	2	(52.9292)	=	52.9292 psia	

weighted averages, volume and air mass

temperature	=	84.41492 deg. F
pressure	=	52.93400 psia
vapor pressure	=	0.35521 psia
volume	=	343040 cu. ft.
dry air mass	=	89478.09 lbm

WNP2 1994 ILRT

data set 22

time = 915 date = 719

sensor	raw data	value
temperature 1	(106.250)	= 106.250 deg. F
temperature 2	(94.460)	= 94.460 deg. F
temperature 3	(105.830)	= 105.830 deg. F
temperature 4	(82.710)	= 82.710 deg. F
temperature 5	(99.930)	= 99.930 deg. F
temperature 6	(83.300)	= 83.300 deg. F
temperature 7	(86.850)	= 86.850 deg. F
temperature 8	(84.390)	= 84.390 deg. F
temperature 9	(85.740)	= 85.740 deg. F
temperature 10	(102.400)	= 102.400 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.910)	= 85.910 deg. F
temperature 13	(86.440)	= 86.440 deg. F
temperature 14	(81.660)	= 81.660 deg. F
temperature 15	(76.460)	= 76.460 deg. F
temperature 16	(76.390)	= 76.390 deg. F
temperature 17	(76.420)	= 76.420 deg. F
temperature 18	(76.520)	= 76.520 deg. F
dewpoint 1	(64.500)	= 64.500 deg. F , 0.3002 psia
dewpoint 2	(63.900)	= 63.900 deg. F , 0.2939 psia
dewpoint 3	(64.550)	= 64.550 deg. F , 0.3007 psia
dewpoint 4	(64.330)	= 64.330 deg. F , 0.2984 psia
dewpoint 5	(75.560)	= 75.560 deg. F , 0.4377 psia
dewpoint 6	(75.690)	= 75.690 deg. F , 0.4396 psia
pressure 1	(52.9326)	= 52.9326 psia
pressure 2	(52.9275)	= 52.9275 psia

weighted averages, volume and air mass

temperature	=	84.40765 deg. F
pressure	=	52.93260 psia
vapor pressure	=	0.35534 psia
volume	=	343040 cu. ft.
dry air mass	=	89476.68 lbm

WNP2 1994 ILRT

data set 23

time = 930 date = 719

sensor		raw data		value	
temperature	1	(106.220)	=	106.220 deg. F	
temperature	2	(94.510)	=	94.510 deg. F	
temperature	3	(105.820)	=	105.820 deg. F	
temperature	4	(82.720)	=	82.720 deg. F	
temperature	5	(99.960)	=	99.960 deg. F	
temperature	6	(83.290)	=	83.290 deg. F	
temperature	7	(86.840)	=	86.840 deg. F	
temperature	8	(84.390)	=	84.390 deg. F	
temperature	9	(85.780)	=	85.780 deg. F	
temperature	10	(102.400)	=	102.400 deg. F	
temperature	11	(103.620)	=	103.620 deg. F	
temperature	12	(85.880)	=	85.880 deg. F	
temperature	13	(86.430)	=	86.430 deg. F	
temperature	14	(81.650)	=	81.650 deg. F	
temperature	15	(76.450)	=	76.450 deg. F	
temperature	16	(76.370)	=	76.370 deg. F	
temperature	17	(76.400)	=	76.400 deg. F	
temperature	18	(76.510)	=	76.510 deg. F	
dewpoint	1	(64.610)	=	64.610 deg. F	, 0.3013 psia
dewpoint	2	(64.020)	=	64.020 deg. F	, 0.2952 psia
dewpoint	3	(64.680)	=	64.680 deg. F	, 0.3021 psia
dewpoint	4	(64.460)	=	64.460 deg. F	, 0.2997 psia
dewpoint	5	(75.590)	=	75.590 deg. F	, 0.4382 psia
dewpoint	6	(75.660)	=	75.660 deg. F	, 0.4392 psia
pressure	1	(52.9309)	=	52.9309 psia	
pressure	2	(52.9261)	=	52.9261 psia	

weighted averages, volume and air mass

temperature	=	84.40237 deg. F
pressure	=	52.93090 psia
vapor pressure	=	0.35610 psia
volume	=	343040 cu. ft.
dry air mass	=	89473.37 lbm

WNP2 1994 ILRT

data set 24

time = 945 date = 719

sensor		raw data		value	
temperature	1	(106.230)	=	106.230 deg. F	
temperature	2	(94.530)	=	94.530 deg. F	
temperature	3	(105.810)	=	105.810 deg. F	
temperature	4	(82.700)	=	82.700 deg. F	
temperature	5	(99.970)	=	99.970 deg. F	
temperature	6	(83.290)	=	83.290 deg. F	
temperature	7	(86.840)	=	86.840 deg. F	
temperature	8	(84.370)	=	84.370 deg. F	
temperature	9	(85.730)	=	85.730 deg. F	
temperature	10	(102.420)	=	102.420 deg. F	
temperature	11	(103.620)	=	103.620 deg. F	
temperature	12	(85.870)	=	85.870 deg. F	
temperature	13	(86.430)	=	86.430 deg. F	
temperature	14	(81.650)	=	81.650 deg. F	
temperature	15	(76.430)	=	76.430 deg. F	
temperature	16	(76.360)	=	76.360 deg. F	
temperature	17	(76.380)	=	76.380 deg. F	
temperature	18	(76.490)	=	76.490 deg. F	
dewpoint	1	(64.690)	=	64.690 deg. F	, 0.3022 psia
dewpoint	2	(64.100)	=	64.100 deg. F	, 0.2960 psia
dewpoint	3	(64.740)	=	64.740 deg. F	, 0.3027 psia
dewpoint	4	(64.500)	=	64.500 deg. F	, 0.3002 psia
dewpoint	5	(75.560)	=	75.560 deg. F	, 0.4377 psia
dewpoint	6	(75.640)	=	75.640 deg. F	, 0.4389 psia
pressure	1	(52.9296)	=	52.9296 psia	
pressure	2	(52.9246)	=	52.9246 psia	

weighted averages, volume and air mass

temperature	=	84.39194 deg. F
pressure	=	52.92960 psia
vapor pressure	=	0.35636 psia
volume	=	343040 cu. ft.
dry air mass	=	89472.43 lbm

WNP2 1994 ILRT

data set 25

time = 1000 date = 719

sensor	raw data	value
temperature 1	(106.190)	= 106.190 deg. F
temperature 2	(94.560)	= 94.560 deg. F
temperature 3	(105.780)	= 105.780 deg. F
temperature 4	(82.710)	= 82.710 deg. F
temperature 5	(99.990)	= 99.990 deg. F
temperature 6	(83.270)	= 83.270 deg. F
temperature 7	(86.820)	= 86.820 deg. F
temperature 8	(84.410)	= 84.410 deg. F
temperature 9	(85.700)	= 85.700 deg. F
temperature 10	(102.420)	= 102.420 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.880)	= 85.880 deg. F
temperature 13	(86.440)	= 86.440 deg. F
temperature 14	(81.660)	= 81.660 deg. F
temperature 15	(76.400)	= 76.400 deg. F
temperature 16	(76.340)	= 76.340 deg. F
temperature 17	(76.360)	= 76.360 deg. F
temperature 18	(76.470)	= 76.470 deg. F
dewpoint 1	(64.740)	= 64.740 deg. F , 0.3027 psia
dewpoint 2	(64.150)	= 64.150 deg. F , 0.2965 psia
dewpoint 3	(64.820)	= 64.820 deg. F , 0.3035 psia
dewpoint 4	(64.690)	= 64.690 deg. F , 0.3022 psia
dewpoint 5	(75.410)	= 75.410 deg. F , 0.4356 psia
dewpoint 6	(75.600)	= 75.600 deg. F , 0.4383 psia
pressure 1	(52.9285)	= 52.9285 psia
pressure 2	(52.9236)	= 52.9236 psia

weighted averages, volume and air mass

temperature	=	84.38297 deg. F
pressure	=	52.92850 psia
vapor pressure	=	0.35633 psia
volume	=	343040 cu. ft.
dry air mass	=	89472.08 lbm

WNP2 1994 ILRT

data set 26

time = 1015 date = 719

sensor		raw data		value	
temperature	1	(106.170)	=	106.170 deg. F	
temperature	2	(94.610)	=	94.610 deg. F	
temperature	3	(105.730)	=	105.730 deg. F	
temperature	4	(82.680)	=	82.680 deg. F	
temperature	5	(100.010)	=	100.010 deg. F	
temperature	6	(83.280)	=	83.280 deg. F	
temperature	7	(86.830)	=	86.830 deg. F	
temperature	8	(84.390)	=	84.390 deg. F	
temperature	9	(85.750)	=	85.750 deg. F	
temperature	10	(102.430)	=	102.430 deg. F	
temperature	11	(103.620)	=	103.620 deg. F	
temperature	12	(85.860)	=	85.860 deg. F	
temperature	13	(86.440)	=	86.440 deg. F	
temperature	14	(81.620)	=	81.620 deg. F	
temperature	15	(76.390)	=	76.390 deg. F	
temperature	16	(76.330)	=	76.330 deg. F	
temperature	17	(76.350)	=	76.350 deg. F	
temperature	18	(76.450)	=	76.450 deg. F	
dewpoint	1	(64.870)	=	64.870 deg. F	, 0.3041 psia
dewpoint	2	(64.240)	=	64.240 deg. F	, 0.2975 psia
dewpoint	3	(64.920)	=	64.920 deg. F	, 0.3046 psia
dewpoint	4	(64.720)	=	64.720 deg. F	, 0.3025 psia
dewpoint	5	(75.440)	=	75.440 deg. F	, 0.4360 psia
dewpoint	6	(75.570)	=	75.570 deg. F	, 0.4379 psia
pressure	1	(52.9270)	=	52.9270 psia	
pressure	2	(52.9221)	=	52.9221 psia	

weighted averages, volume and air mass

temperature	=	84.37601 deg. F
pressure	=	52.92700 psia
vapor pressure	=	0.35688 psia
volume	=	343040 cu. ft.
dry air mass	=	89469.73 lbm

WNP2 1994 ILRT

data set 27

time = 1030 date = 719

sensor		raw data		value	
temperature	1	(106.160)	=	106.160	deg. F
temperature	2	(94.630)	=	94.630	deg. F
temperature	3	(105.730)	=	105.730	deg. F
temperature	4	(82.700)	=	82.700	deg. F
temperature	5	(100.030)	=	100.030	deg. F
temperature	6	(83.280)	=	83.280	deg. F
temperature	7	(86.850)	=	86.850	deg. F
temperature	8	(84.370)	=	84.370	deg. F
temperature	9	(85.730)	=	85.730	deg. F
temperature	10	(102.430)	=	102.430	deg. F
temperature	11	(103.610)	=	103.610	deg. F
temperature	12	(85.810)	=	85.810	deg. F
temperature	13	(86.430)	=	86.430	deg. F
temperature	14	(81.630)	=	81.630	deg. F
temperature	15	(76.380)	=	76.380	deg. F
temperature	16	(76.310)	=	76.310	deg. F
temperature	17	(76.330)	=	76.330	deg. F
temperature	18	(76.430)	=	76.430	deg. F
dewpoint	1	(64.870)	=	64.870	deg. F , 0.3041 psia
dewpoint	2	(64.340)	=	64.340	deg. F , 0.2985 psia
dewpoint	3	(64.990)	=	64.990	deg. F , 0.3053 psia
dewpoint	4	(64.750)	=	64.750	deg. F , 0.3028 psia
dewpoint	5	(75.370)	=	75.370	deg. F , 0.4350 psia
dewpoint	6	(75.560)	=	75.560	deg. F , 0.4377 psia
pressure	1	(52.9254)	=	52.9254	psia
pressure	2	(52.9206)	=	52.9206	psia

weighted averages, volume and air mass

temperature	=	84.36774	deg. F
pressure	=	52.92540	psia
vapor pressure	=	0.35701	psia
volume	=	343040	cu. ft.
dry air mass	=	89468.15	lbm

WNP2 1994 ILRT

data set 28

time = 1045 date = 719

sensor		raw data		value	
temperature	1	(106.170)	=	106.170 deg. F	
temperature	2	(94.670)	=	94.670 deg. F	
temperature	3	(105.640)	=	105.640 deg. F	
temperature	4	(82.700)	=	82.700 deg. F	
temperature	5	(100.060)	=	100.060 deg. F	
temperature	6	(83.270)	=	83.270 deg. F	
temperature	7	(86.840)	=	86.840 deg. F	
temperature	8	(84.380)	=	84.380 deg. F	
temperature	9	(85.730)	=	85.730 deg. F	
temperature	10	(102.430)	=	102.430 deg. F	
temperature	11	(103.630)	=	103.630 deg. F	
temperature	12	(85.830)	=	85.830 deg. F	
temperature	13	(86.450)	=	86.450 deg. F	
temperature	14	(81.630)	=	81.630 deg. F	
temperature	15	(76.360)	=	76.360 deg. F	
temperature	16	(76.300)	=	76.300 deg. F	
temperature	17	(76.320)	=	76.320 deg. F	
temperature	18	(76.430)	=	76.430 deg. F	
dewpoint	1	(64.990)	=	64.990 deg. F	, 0.3053 psia
dewpoint	2	(64.380)	=	64.380 deg. F	, 0.2989 psia
dewpoint	3	(65.080)	=	65.080 deg. F	, 0.3063 psia
dewpoint	4	(64.880)	=	64.880 deg. F	, 0.3042 psia
dewpoint	5	(75.390)	=	75.390 deg. F	, 0.4353 psia
dewpoint	6	(75.530)	=	75.530 deg. F	, 0.4373 psia
pressure	1	(52.9246)	=	52.9246 psia	
pressure	2	(52.9194)	=	52.9194 psia	

weighted averages, volume and air mass

temperature	=	84.36472 deg. F
pressure	=	52.92460 psia
vapor pressure	=	0.35753 psia
volume	=	343040 cu. ft.
dry air mass	=	89466.41 lbm

WNP2 1994 ILRT

data set 29

time = 1100 date = 719

sensor		raw data		value	
temperature	1	(106.180)	=	106.180 deg.	F
temperature	2	(94.690)	=	94.690 deg.	F
temperature	3	(105.660)	=	105.660 deg.	F
temperature	4	(82.700)	=	82.700 deg.	F
temperature	5	(100.070)	=	100.070 deg.	F
temperature	6	(83.270)	=	83.270 deg.	F
temperature	7	(86.890)	=	86.890 deg.	F
temperature	8	(84.400)	=	84.400 deg.	F
temperature	9	(85.750)	=	85.750 deg.	F
temperature	10	(102.450)	=	102.450 deg.	F
temperature	11	(103.630)	=	103.630 deg.	F
temperature	12	(85.840)	=	85.840 deg.	F
temperature	13	(86.470)	=	86.470 deg.	F
temperature	14	(81.630)	=	81.630 deg.	F
temperature	15	(76.350)	=	76.350 deg.	F
temperature	16	(76.280)	=	76.280 deg.	F
temperature	17	(76.310)	=	76.310 deg.	F
temperature	18	(76.410)	=	76.410 deg.	F
dewpoint	1	(65.120)	=	65.120 deg.	F , 0.3067 psia
dewpoint	2	(64.470)	=	64.470 deg.	F , 0.2999 psia
dewpoint	3	(65.170)	=	65.170 deg.	F , 0.3073 psia
dewpoint	4	(64.880)	=	64.880 deg.	F , 0.3042 psia
dewpoint	5	(75.320)	=	75.320 deg.	F , 0.4343 psia
dewpoint	6	(75.530)	=	75.530 deg.	F , 0.4373 psia
pressure	1	(52.9235)	=	52.9235	psia
pressure	2	(52.9184)	=	52.9184	psia

weighted averages, volume and air mass

temperature	=	84.36665 deg.	F
pressure	=	52.92350	psia
vapor pressure	=	0.35782	psia
volume	=	343040	cu. ft.
dry air mass	=	89463.72	lbm

WNP2 1994 ILRT

data set 30

time = 1115 date = 719

sensor		raw data		value	
temperature	1	(106.170)	=	106.170	deg. F
temperature	2	(94.750)	=	94.750	deg. F
temperature	3	(105.600)	=	105.600	deg. F
temperature	4	(82.700)	=	82.700	deg. F
temperature	5	(100.100)	=	100.100	deg. F
temperature	6	(83.270)	=	83.270	deg. F
temperature	7	(86.870)	=	86.870	deg. F
temperature	8	(84.400)	=	84.400	deg. F
temperature	9	(85.770)	=	85.770	deg. F
temperature	10	(102.440)	=	102.440	deg. F
temperature	11	(103.630)	=	103.630	deg. F
temperature	12	(85.860)	=	85.860	deg. F
temperature	13	(86.460)	=	86.460	deg. F
temperature	14	(81.600)	=	81.600	deg. F
temperature	15	(76.340)	=	76.340	deg. F
temperature	16	(76.270)	=	76.270	deg. F
temperature	17	(76.280)	=	76.280	deg. F
temperature	18	(76.400)	=	76.400	deg. F
dewpoint	1	(65.250)	=	65.250	deg. F , 0.3081 psia
dewpoint	2	(64.600)	=	64.600	deg. F , 0.3012 psia
dewpoint	3	(65.310)	=	65.310	deg. F , 0.3088 psia
dewpoint	4	(65.030)	=	65.030	deg. F , 0.3058 psia
dewpoint	5	(75.310)	=	75.310	deg. F , 0.4341 psia
dewpoint	6	(75.500)	=	75.500	deg. F , 0.4369 psia
pressure	1	(52.9223)	=	52.9223	psia
pressure	2	(52.9170)	=	52.9170	psia

weighted averages, volume and air mass

temperature	=	84.35975	deg. F
pressure	=	52.92230	psia
vapor pressure	=	0.35856	psia
volume	=	343040	cu. ft.
dry air mass	=	89461.55	lbm

WNP2 1994 ILRT

data set 31

time = 1130 date = 719

sensor		raw data		value	
temperature	1	(106.160)	=	106.160 deg.	F
temperature	2	(94.780)	=	94.780 deg.	F
temperature	3	(105.570)	=	105.570 deg.	F
temperature	4	(82.690)	=	82.690 deg.	F
temperature	5	(100.120)	=	100.120 deg.	F
temperature	6	(83.270)	=	83.270 deg.	F
temperature	7	(86.880)	=	86.880 deg.	F
temperature	8	(84.390)	=	84.390 deg.	F
temperature	9	(85.680)	=	85.680 deg.	F
temperature	10	(102.450)	=	102.450 deg.	F
temperature	11	(103.620)	=	103.620 deg.	F
temperature	12	(85.830)	=	85.830 deg.	F
temperature	13	(86.460)	=	86.460 deg.	F
temperature	14	(81.620)	=	81.620 deg.	F
temperature	15	(76.330)	=	76.330 deg.	F
temperature	16	(76.260)	=	76.260 deg.	F
temperature	17	(76.280)	=	76.280 deg.	F
temperature	18	(76.380)	=	76.380 deg.	F
dewpoint	1	(65.280)	=	65.280 deg.	F , 0.3084 psia
dewpoint	2	(64.680)	=	64.680 deg.	F , 0.3021 psia
dewpoint	3	(65.380)	=	65.380 deg.	F , 0.3095 psia
dewpoint	4	(65.050)	=	65.050 deg.	F , 0.3060 psia
dewpoint	5	(75.340)	=	75.340 deg.	F , 0.4345 psia
dewpoint	6	(75.490)	=	75.490 deg.	F , 0.4367 psia
pressure	1	(52.9211)	=	52.9211	psia
pressure	2	(52.9159)	=	52.9159	psia

weighted averages, volume and air mass

temperature	=	84.35135 deg.	F
pressure	=	52.92110	psia
vapor pressure	=	0.35897	psia
volume	=	343040	cu. ft.
dry air mass	=	89460.19	lbm

WNP2 1994 ILRT

data set 32

time = 1145 date = 719

sensor		raw data		value		
temperature	1	(	106.170)	=	106.170	deg. F
temperature	2	(	94.800)	=	94.800	deg. F
temperature	3	(	105.580)	=	105.580	deg. F
temperature	4	(	82.700)	=	82.700	deg. F
temperature	5	(	100.140)	=	100.140	deg. F
temperature	6	(	83.280)	=	83.280	deg. F
temperature	7	(	86.870)	=	86.870	deg. F
temperature	8	(	84.400)	=	84.400	deg. F
temperature	9	(	85.680)	=	85.680	deg. F
temperature	10	(	102.450)	=	102.450	deg. F
temperature	11	(	103.610)	=	103.610	deg. F
temperature	12	(	85.870)	=	85.870	deg. F
temperature	13	(	86.460)	=	86.460	deg. F
temperature	14	(	81.590)	=	81.590	deg. F
temperature	15	(	76.310)	=	76.310	deg. F
temperature	16	(	76.240)	=	76.240	deg. F
temperature	17	(	76.260)	=	76.260	deg. F
temperature	18	(	76.360)	=	76.360	deg. F
dewpoint	1	(	65.310)	=	65.310	deg. F , 0.3088 psia
dewpoint	2	(	64.760)	=	64.760	deg. F , 0.3029 psia
dewpoint	3	(	65.490)	=	65.490	deg. F , 0.3107 psia
dewpoint	4	(	65.070)	=	65.070	deg. F , 0.3062 psia
dewpoint	5	(	75.250)	=	75.250	deg. F , 0.4332 psia
dewpoint	6	(	75.460)	=	75.460	deg. F , 0.4363 psia
pressure	1	(	52.9201)	=	52.9201	psia
pressure	2	(	52.9150)	=	52.9150	psia

weighted averages, volume and air mass

temperature	=	84.34604	deg. F
pressure	=	52.92010	psia
vapor pressure	=	0.35904	psia
volume	=	343040	cu. ft.
dry air mass	=	89459.24	lbm

WNP2 1994 ILRT

data set 33

time = 1200 date = 719

sensor	raw data	value
temperature 1	(106.150)	= 106.150 deg. F
temperature 2	(94.840)	= 94.840 deg. F
temperature 3	(105.560)	= 105.560 deg. F
temperature 4	(82.730)	= 82.730 deg. F
temperature 5	(100.150)	= 100.150 deg. F
temperature 6	(83.280)	= 83.280 deg. F
temperature 7	(86.870)	= 86.870 deg. F
temperature 8	(84.390)	= 84.390 deg. F
temperature 9	(85.670)	= 85.670 deg. F
temperature 10	(102.460)	= 102.460 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.850)	= 85.850 deg. F
temperature 13	(86.480)	= 86.480 deg. F
temperature 14	(81.640)	= 81.640 deg. F
temperature 15	(76.290)	= 76.290 deg. F
temperature 16	(76.230)	= 76.230 deg. F
temperature 17	(76.250)	= 76.250 deg. F
temperature 18	(76.350)	= 76.350 deg. F
dewpoint 1	(65.460)	= 65.460 deg. F , 0.3104 psia
dewpoint 2	(64.820)	= 64.820 deg. F , 0.3035 psia
dewpoint 3	(65.530)	= 65.530 deg. F , 0.3111 psia
dewpoint 4	(65.150)	= 65.150 deg. F , 0.3071 psia
dewpoint 5	(75.230)	= 75.230 deg. F , 0.4330 psia
dewpoint 6	(75.450)	= 75.450 deg. F , 0.4361 psia
pressure 1	(52.9193)	= 52.9193 psia
pressure 2	(52.9142)	= 52.9142 psia

weighted averages, volume and air mass

temperature	=	84.34559 deg. F
pressure	=	52.91930 psia
vapor pressure	=	0.35944 psia
volume	=	343040 cu. ft.
dry air mass	=	89457.29 lbm

WNP2 1994 ILRT

data set 34

time = 1215 date = 719

sensor	raw data	value
temperature 1	(106.140)	= 106.140 deg. F
temperature 2	(94.870)	= 94.870 deg. F
temperature 3	(105.480)	= 105.480 deg. F
temperature 4	(82.790)	= 82.790 deg. F
temperature 5	(100.180)	= 100.180 deg. F
temperature 6	(83.300)	= 83.300 deg. F
temperature 7	(86.880)	= 86.880 deg. F
temperature 8	(84.420)	= 84.420 deg. F
temperature 9	(85.680)	= 85.680 deg. F
temperature 10	(102.480)	= 102.480 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.850)	= 85.850 deg. F
temperature 13	(86.510)	= 86.510 deg. F
temperature 14	(81.630)	= 81.630 deg. F
temperature 15	(76.280)	= 76.280 deg. F
temperature 16	(76.220)	= 76.220 deg. F
temperature 17	(76.240)	= 76.240 deg. F
temperature 18	(76.340)	= 76.340 deg. F
dewpoint 1	(65.490)	= 65.490 deg. F , 0.3107 psia
dewpoint 2	(64.890)	= 64.890 deg. F , 0.3043 psia
dewpoint 3	(65.620)	= 65.620 deg. F , 0.3121 psia
dewpoint 4	(65.280)	= 65.280 deg. F , 0.3084 psia
dewpoint 5	(75.220)	= 75.220 deg. F , 0.4328 psia
dewpoint 6	(75.420)	= 75.420 deg. F , 0.4357 psia
pressure 1	(52.9186)	= 52.9186 psia
pressure 2	(52.9136)	= 52.9136 psia

weighted averages, volume and air mass

temperature	=	84.34883 deg. F
pressure	=	52.91860 psia
vapor pressure	=	0.35982 psia
volume	=	343040 cu. ft.
dry air mass	=	89454.90 lbm

WNP2 1994 ILRT

data set 35

time = 1230 date = 719

sensor		raw data		value	
temperature	1	(106.150)	=	106.150 deg. F	
temperature	2	(94.900)	=	94.900 deg. F	
temperature	3	(105.480)	=	105.480 deg. F	
temperature	4	(82.770)	=	82.770 deg. F	
temperature	5	(100.200)	=	100.200 deg. F	
temperature	6	(83.300)	=	83.300 deg. F	
temperature	7	(86.890)	=	86.890 deg. F	
temperature	8	(84.430)	=	84.430 deg. F	
temperature	9	(85.750)	=	85.750 deg. F	
temperature	10	(102.480)	=	102.480 deg. F	
temperature	11	(103.630)	=	103.630 deg. F	
temperature	12	(85.850)	=	85.850 deg. F	
temperature	13	(86.510)	=	86.510 deg. F	
temperature	14	(81.640)	=	81.640 deg. F	
temperature	15	(76.270)	=	76.270 deg. F	
temperature	16	(76.200)	=	76.200 deg. F	
temperature	17	(76.220)	=	76.220 deg. F	
temperature	18	(76.330)	=	76.330 deg. F	
dewpoint	1	(65.590)	=	65.590 deg. F	, 0.3118 psia
dewpoint	2	(64.990)	=	64.990 deg. F	, 0.3053 psia
dewpoint	3	(65.640)	=	65.640 deg. F	, 0.3123 psia
dewpoint	4	(65.340)	=	65.340 deg. F	, 0.3091 psia
dewpoint	5	(75.190)	=	75.190 deg. F	, 0.4324 psia
dewpoint	6	(75.430)	=	75.430 deg. F	, 0.4359 psia
pressure	1	(52.9177)	=	52.9177 psia	
pressure	2	(52.9129)	=	52.9129 psia	

weighted averages, volume and air mass

temperature	=	84.34828 deg. F
pressure	=	52.91770 psia
vapor pressure	=	0.36021 psia
volume	=	343040 cu. ft.
dry air mass	=	89452.81 lbm

WNP2 1994 ILRT

data set 36

time = 1245 date = 719

sensor		raw data		value		
temperature	1	(106.160)	=	106.160	deg. F	
temperature	2	(94.940)	=	94.940	deg. F	
temperature	3	(105.420)	=	105.420	deg. F	
temperature	4	(82.800)	=	82.800	deg. F	
temperature	5	(100.220)	=	100.220	deg. F	
temperature	6	(83.320)	=	83.320	deg. F	
temperature	7	(86.920)	=	86.920	deg. F	
temperature	8	(84.450)	=	84.450	deg. F	
temperature	9	(85.750)	=	85.750	deg. F	
temperature	10	(102.500)	=	102.500	deg. F	
temperature	11	(103.640)	=	103.640	deg. F	
temperature	12	(85.890)	=	85.890	deg. F	
temperature	13	(86.530)	=	86.530	deg. F	
temperature	14	(81.680)	=	81.680	deg. F	
temperature	15	(76.250)	=	76.250	deg. F	
temperature	16	(76.190)	=	76.190	deg. F	
temperature	17	(76.210)	=	76.210	deg. F	
temperature	18	(76.320)	=	76.320	deg. F	
dewpoint	1	(65.640)	=	65.640	deg. F	, 0.3123 psia
dewpoint	2	(65.060)	=	65.060	deg. F	, 0.3061 psia
dewpoint	3	(65.780)	=	65.780	deg. F	, 0.3139 psia
dewpoint	4	(65.410)	=	65.410	deg. F	, 0.3098 psia
dewpoint	5	(75.180)	=	75.180	deg. F	, 0.4322 psia
dewpoint	6	(75.420)	=	75.420	deg. F	, 0.4357 psia
pressure	1	(52.9175)	=	52.9175	psia	
pressure	2	(52.9128)	=	52.9128	psia	

weighted averages, volume and air mass

temperature	=	84.35413 deg. F
pressure	=	52.91750 psia
vapor pressure	=	0.36070 psia
volume	=	343040 cu. ft.
dry air mass	=	89450.67 lbm

WNP2 1994 ILRT

data set 37

time = 1300 date = 719

sensor		raw data		value	
temperature	1	(106.190)	=	106.190 deg. F	
temperature	2	(94.980)	=	94.980 deg. F	
temperature	3	(105.420)	=	105.420 deg. F	
temperature	4	(82.800)	=	82.800 deg. F	
temperature	5	(100.240)	=	100.240 deg. F	
temperature	6	(83.350)	=	83.350 deg. F	
temperature	7	(86.940)	=	86.940 deg. F	
temperature	8	(84.460)	=	84.460 deg. F	
temperature	9	(85.780)	=	85.780 deg. F	
temperature	10	(102.510)	=	102.510 deg. F	
temperature	11	(103.650)	=	103.650 deg. F	
temperature	12	(85.870)	=	85.870 deg. F	
temperature	13	(86.540)	=	86.540 deg. F	
temperature	14	(81.640)	=	81.640 deg. F	
temperature	15	(76.250)	=	76.250 deg. F	
temperature	16	(76.180)	=	76.180 deg. F	
temperature	17	(76.200)	=	76.200 deg. F	
temperature	18	(76.300)	=	76.300 deg. F	
dewpoint	1	(65.690)	=	65.690 deg. F	, 0.3129 psia
dewpoint	2	(65.140)	=	65.140 deg. F	, 0.3069 psia
dewpoint	3	(65.790)	=	65.790 deg. F	, 0.3140 psia
dewpoint	4	(65.450)	=	65.450 deg. F	, 0.3103 psia
dewpoint	5	(75.120)	=	75.120 deg. F	, 0.4314 psia
dewpoint	6	(75.410)	=	75.410 deg. F	, 0.4356 psia
pressure	1	(52.9169)	=	52.9169 psia	
pressure	2	(52.9121)	=	52.9121 psia	

weighted averages, volume and air mass

temperature	=	84.35500 deg. F
pressure	=	52.91690 psia
vapor pressure	=	0.36079 psia
volume	=	343040 cu. ft.
dry air mass	=	89449.36 lbm

WNP2 1994 ILRT

data set 38

time = 1315 date = 719

sensor		raw data		value	
temperature	1	(106.170)	=	106.170 deg. F	
temperature	2	(95.020)	=	95.020 deg. F	
temperature	3	(105.410)	=	105.410 deg. F	
temperature	4	(82.840)	=	82.840 deg. F	
temperature	5	(100.280)	=	100.280 deg. F	
temperature	6	(83.370)	=	83.370 deg. F	
temperature	7	(86.980)	=	86.980 deg. F	
temperature	8	(84.470)	=	84.470 deg. F	
temperature	9	(85.780)	=	85.780 deg. F	
temperature	10	(102.520)	=	102.520 deg. F	
temperature	11	(103.650)	=	103.650 deg. F	
temperature	12	(85.890)	=	85.890 deg. F	
temperature	13	(86.550)	=	86.550 deg. F	
temperature	14	(81.680)	=	81.680 deg. F	
temperature	15	(76.230)	=	76.230 deg. F	
temperature	16	(76.160)	=	76.160 deg. F	
temperature	17	(76.190)	=	76.190 deg. F	
temperature	18	(76.290)	=	76.290 deg. F	
dewpoint	1	(65.780)	=	65.780 deg. F	, 0.3139 psia
dewpoint	2	(65.210)	=	65.210 deg. F	, 0.3077 psia
dewpoint	3	(65.910)	=	65.910 deg. F	, 0.3153 psia
dewpoint	4	(65.610)	=	65.610 deg. F	, 0.3120 psia
dewpoint	5	(75.080)	=	75.080 deg. F	, 0.4308 psia
dewpoint	6	(75.390)	=	75.390 deg. F	, 0.4353 psia
pressure	1	(52.9152)	=	52.9152 psia	
pressure	2	(52.9103)	=	52.9103 psia	

weighted averages, volume and air mass

temperature	=	84.36047 deg. F
pressure	=	52.91520 psia
vapor pressure	=	0.36129 psia
volume	=	343040 cu. ft.
dry air mass	=	89444.71 lbm

WNP2 1994 ILRT

data set 39

time = 1330 date = 719

sensor		raw data		value	
temperature	1	(106.150)	=	106.150 deg.	F
temperature	2	(95.040)	=	95.040 deg.	F
temperature	3	(105.370)	=	105.370 deg.	F
temperature	4	(82.830)	=	82.830 deg.	F
temperature	5	(100.280)	=	100.280 deg.	F
temperature	6	(83.370)	=	83.370 deg.	F
temperature	7	(86.990)	=	86.990 deg.	F
temperature	8	(84.490)	=	84.490 deg.	F
temperature	9	(85.720)	=	85.720 deg.	F
temperature	10	(102.550)	=	102.550 deg.	F
temperature	11	(103.660)	=	103.660 deg.	F
temperature	12	(85.930)	=	85.930 deg.	F
temperature	13	(86.550)	=	86.550 deg.	F
temperature	14	(81.660)	=	81.660 deg.	F
temperature	15	(76.220)	=	76.220 deg.	F
temperature	16	(76.170)	=	76.170 deg.	F
temperature	17	(76.180)	=	76.180 deg.	F
temperature	18	(76.280)	=	76.280 deg.	F
dewpoint	1	(65.850)	=	65.850 deg. F ,	0.3146 psia
dewpoint	2	(65.280)	=	65.280 deg. F ,	0.3084 psia
dewpoint	3	(66.010)	=	66.010 deg. F ,	0.3164 psia
dewpoint	4	(65.670)	=	65.670 deg. F ,	0.3127 psia
dewpoint	5	(75.030)	=	75.030 deg. F ,	0.4301 psia
dewpoint	6	(75.390)	=	75.390 deg. F ,	0.4353 psia
pressure	1	(52.9139)	=	52.9139 psia	
pressure	2	(52.9092)	=	52.9092 psia	

weighted averages, volume and air mass

temperature	=	84.35738 deg. F
pressure	=	52.91390 psia
vapor pressure	=	0.36163 psia
volume	=	343040 cu. ft.
dry air mass	=	89442.42 lbm

WNP2 1994 ILRT

data set 40

time = 1345 date = 719

sensor		raw data		value	
temperature	1	(106.120)	=	106.120 deg.	F
temperature	2	(95.070)	=	95.070 deg.	F
temperature	3	(105.300)	=	105.300 deg.	F
temperature	4	(82.840)	=	82.840 deg.	F
temperature	5	(100.300)	=	100.300 deg.	F
temperature	6	(83.370)	=	83.370 deg.	F
temperature	7	(86.990)	=	86.990 deg.	F
temperature	8	(84.480)	=	84.480 deg.	F
temperature	9	(85.750)	=	85.750 deg.	F
temperature	10	(102.540)	=	102.540 deg.	F
temperature	11	(103.640)	=	103.640 deg.	F
temperature	12	(85.890)	=	85.890 deg.	F
temperature	13	(86.560)	=	86.560 deg.	F
temperature	14	(81.710)	=	81.710 deg.	F
temperature	15	(76.210)	=	76.210 deg.	F
temperature	16	(76.150)	=	76.150 deg.	F
temperature	17	(76.170)	=	76.170 deg.	F
temperature	18	(76.270)	=	76.270 deg.	F
dewpoint	1	(65.920)	=	65.920 deg. F ,	0.3154 psia
dewpoint	2	(65.380)	=	65.380 deg. F ,	0.3095 psia
dewpoint	3	(66.070)	=	66.070 deg. F ,	0.3170 psia
dewpoint	4	(65.630)	=	65.630 deg. F ,	0.3122 psia
dewpoint	5	(74.970)	=	74.970 deg. F ,	0.4292 psia
dewpoint	6	(75.350)	=	75.350 deg. F ,	0.4347 psia
pressure	1	(52.9128)	=	52.9128	psia
pressure	2	(52.9083)	=	52.9083	psia

weighted averages, volume and air mass

temperature	=	84.35290 deg. F
pressure	=	52.91280 psia
vapor pressure	=	0.36170 psia
volume	=	343040 cu. ft.
dry air mass	=	89441.17 lbm

WNP2 1994 ILRT

data set 41

time = 1400 date = 719

sensor	raw data	value
temperature 1	(106.110)	= 106.110 deg. F
temperature 2	(95.090)	= 95.090 deg. F
temperature 3	(105.290)	= 105.290 deg. F
temperature 4	(82.890)	= 82.890 deg. F
temperature 5	(100.310)	= 100.310 deg. F
temperature 6	(83.380)	= 83.380 deg. F
temperature 7	(87.010)	= 87.010 deg. F
temperature 8	(84.480)	= 84.480 deg. F
temperature 9	(85.770)	= 85.770 deg. F
temperature 10	(102.550)	= 102.550 deg. F
temperature 11	(103.630)	= 103.630 deg. F
temperature 12	(85.950)	= 85.950 deg. F
temperature 13	(86.580)	= 86.580 deg. F
temperature 14	(81.730)	= 81.730 deg. F
temperature 15	(76.200)	= 76.200 deg. F
temperature 16	(76.140)	= 76.140 deg. F
temperature 17	(76.160)	= 76.160 deg. F
temperature 18	(76.260)	= 76.260 deg. F
dewpoint 1	(66.020)	= 66.020 deg. F , 0.3165 psia
dewpoint 2	(65.460)	= 65.460 deg. F , 0.3104 psia
dewpoint 3	(66.130)	= 66.130 deg. F , 0.3177 psia
dewpoint 4	(65.670)	= 65.670 deg. F , 0.3127 psia
dewpoint 5	(75.020)	= 75.020 deg. F , 0.4299 psia
dewpoint 6	(75.340)	= 75.340 deg. F , 0.4345 psia
pressure 1	(52.9121)	= 52.9121 psia
pressure 2	(52.9074)	= 52.9074 psia

weighted averages, volume and air mass

temperature	=	84.35944 deg. F
pressure	=	52.91210 psia
vapor pressure	=	0.36227 psia
volume	=	343040 cu. ft.
dry air mass	=	89437.94 lbm

WNP2 1994 ILRT

data set 42

time = 1415 date = 719

sensor	raw data	value
temperature 1	(106.080)	= 106.080 deg. F
temperature 2	(95.130)	= 95.130 deg. F
temperature 3	(105.290)	= 105.290 deg. F
temperature 4	(82.870)	= 82.870 deg. F
temperature 5	(100.320)	= 100.320 deg. F
temperature 6	(83.390)	= 83.390 deg. F
temperature 7	(87.010)	= 87.010 deg. F
temperature 8	(84.520)	= 84.520 deg. F
temperature 9	(85.760)	= 85.760 deg. F
temperature 10	(102.540)	= 102.540 deg. F
temperature 11	(103.620)	= 103.620 deg. F
temperature 12	(85.900)	= 85.900 deg. F
temperature 13	(86.590)	= 86.590 deg. F
temperature 14	(81.740)	= 81.740 deg. F
temperature 15	(76.190)	= 76.190 deg. F
temperature 16	(76.130)	= 76.130 deg. F
temperature 17	(76.140)	= 76.140 deg. F
temperature 18	(76.240)	= 76.240 deg. F
dewpoint 1	(66.060)	= 66.060 deg. F , 0.3169 psia
dewpoint 2	(65.530)	= 65.530 deg. F , 0.3111 psia
dewpoint 3	(66.220)	= 66.220 deg. F , 0.3187 psia
dewpoint 4	(65.750)	= 65.750 deg. F , 0.3135 psia
dewpoint 5	(75.040)	= 75.040 deg. F , 0.4302 psia
dewpoint 6	(75.310)	= 75.310 deg. F , 0.4341 psia
pressure 1	(52.9115)	= 52.9115 psia
pressure 2	(52.9069)	= 52.9069 psia

weighted averages, volume and air mass

temperature	=	84.35341 deg. F
pressure	=	52.91150 psia
vapor pressure	=	0.36270 psia
volume	=	343040 cu. ft.
dry air mass	=	89437.17 lbm

WNP2 1994 ILRT

data set 43

time = 1430 date = 719

sensor		raw data		value	
temperature	1	(106.090)	=	106.090 deg. F	
temperature	2	(95.170)	=	95.170 deg. F	
temperature	3	(105.250)	=	105.250 deg. F	
temperature	4	(82.880)	=	82.880 deg. F	
temperature	5	(100.330)	=	100.330 deg. F	
temperature	6	(83.400)	=	83.400 deg. F	
temperature	7	(87.000)	=	87.000 deg. F	
temperature	8	(84.520)	=	84.520 deg. F	
temperature	9	(85.820)	=	85.820 deg. F	
temperature	10	(102.530)	=	102.530 deg. F	
temperature	11	(103.610)	=	103.610 deg. F	
temperature	12	(85.930)	=	85.930 deg. F	
temperature	13	(86.600)	=	86.600 deg. F	
temperature	14	(81.690)	=	81.690 deg. F	
temperature	15	(76.170)	=	76.170 deg. F	
temperature	16	(76.110)	=	76.110 deg. F	
temperature	17	(76.130)	=	76.130 deg. F	
temperature	18	(76.230)	=	76.230 deg. F	
dewpoint	1	(66.130)	=	66.130 deg. F	, 0.3177 psia
dewpoint	2	(65.590)	=	65.590 deg. F	, 0.3118 psia
dewpoint	3	(66.280)	=	66.280 deg. F	, 0.3193 psia
dewpoint	4	(65.880)	=	65.880 deg. F	, 0.3149 psia
dewpoint	5	(75.090)	=	75.090 deg. F	, 0.4309 psia
dewpoint	6	(75.300)	=	75.300 deg. F	, 0.4340 psia
pressure	1	(52.9118)	=	52.9118 psia	
pressure	2	(52.9071)	=	52.9071 psia	

weighted averages, volume and air mass

temperature	=	84.34956 deg. F
pressure	=	52.91180 psia
vapor pressure	=	0.36331 psia
volume	=	343040 cu. ft.
dry air mass	=	89437.28 lbm

WNP2 1994 ILRT

data set 44

time = 1445 date = 719

sensor		raw data		value	
temperature	1	(106.100)	=	106.100 deg.	F
temperature	2	(95.190)	=	95.190 deg.	F
temperature	3	(105.220)	=	105.220 deg.	F
temperature	4	(82.900)	=	82.900 deg.	F
temperature	5	(100.350)	=	100.350 deg.	F
temperature	6	(83.410)	=	83.410 deg.	F
temperature	7	(87.050)	=	87.050 deg.	F
temperature	8	(84.540)	=	84.540 deg.	F
temperature	9	(85.830)	=	85.830 deg.	F
temperature	10	(102.540)	=	102.540 deg.	F
temperature	11	(103.640)	=	103.640 deg.	F
temperature	12	(85.980)	=	85.980 deg.	F
temperature	13	(86.610)	=	86.610 deg.	F
temperature	14	(81.740)	=	81.740 deg.	F
temperature	15	(76.160)	=	76.160 deg.	F
temperature	16	(76.110)	=	76.110 deg.	F
temperature	17	(76.120)	=	76.120 deg.	F
temperature	18	(76.220)	=	76.220 deg.	F
dewpoint	1	(66.180)	=	66.180 deg.	F , 0.3182 psia
dewpoint	2	(65.630)	=	65.630 deg.	F , 0.3122 psia
dewpoint	3	(66.360)	=	66.360 deg.	F , 0.3202 psia
dewpoint	4	(65.890)	=	65.890 deg.	F , 0.3151 psia
dewpoint	5	(75.060)	=	75.060 deg.	F , 0.4305 psia
dewpoint	6	(75.300)	=	75.300 deg.	F , 0.4340 psia
pressure	1	(52.9116)	=	52.9116	psia
pressure	2	(52.9068)	=	52.9068	psia

weighted averages, volume and air mass

temperature	=	84.35875 deg.	F
pressure	=	52.91160	psia
vapor pressure	=	0.36353	psia
volume	=	343040	cu. ft.
dry air mass	=	89435.05	lbm

WNP2 1994 ILRT

data set 45

time = 1500 date = 719

sensor	raw data	value
temperature 1	(106.120)	= 106.120 deg. F
temperature 2	(95.230)	= 95.230 deg. F
temperature 3	(105.180)	= 105.180 deg. F
temperature 4	(82.920)	= 82.920 deg. F
temperature 5	(100.380)	= 100.380 deg. F
temperature 6	(83.420)	= 83.420 deg. F
temperature 7	(87.070)	= 87.070 deg. F
temperature 8	(84.540)	= 84.540 deg. F
temperature 9	(85.830)	= 85.830 deg. F
temperature 10	(102.560)	= 102.560 deg. F
temperature 11	(103.650)	= 103.650 deg. F
temperature 12	(85.960)	= 85.960 deg. F
temperature 13	(86.640)	= 86.640 deg. F
temperature 14	(81.710)	= 81.710 deg. F
temperature 15	(76.150)	= 76.150 deg. F
temperature 16	(76.090)	= 76.090 deg. F
temperature 17	(76.110)	= 76.110 deg. F
temperature 18	(76.210)	= 76.210 deg. F
dewpoint 1	(66.300)	= 66.300 deg. F , 0.3196 psia
dewpoint 2	(65.730)	= 65.730 deg. F , 0.3133 psia
dewpoint 3	(66.430)	= 66.430 deg. F , 0.3210 psia
dewpoint 4	(65.910)	= 65.910 deg. F , 0.3153 psia
dewpoint 5	(75.080)	= 75.080 deg. F , 0.4308 psia
dewpoint 6	(75.270)	= 75.270 deg. F , 0.4335 psia
pressure 1	(52.9102)	= 52.9102 psia
pressure 2	(52.9055)	= 52.9055 psia

weighted averages, volume and air mass

temperature	=	84.35717 deg. F
pressure	=	52.91020 psia
vapor pressure	=	0.36402 psia
volume	=	343040 cu. ft.
dry air mass	=	89432.09 lbm

WNP2 1994 ILRT

data set 46

time = 1515 date = 719

sensor		raw data		value	
temperature	1	(106.110)	=	106.110 deg.	F
temperature	2	(95.270)	=	95.270 deg.	F
temperature	3	(105.120)	=	105.120 deg.	F
temperature	4	(82.950)	=	82.950 deg.	F
temperature	5	(100.390)	=	100.390 deg.	F
temperature	6	(83.420)	=	83.420 deg.	F
temperature	7	(87.070)	=	87.070 deg.	F
temperature	8	(84.560)	=	84.560 deg.	F
temperature	9	(85.840)	=	85.840 deg.	F
temperature	10	(102.570)	=	102.570 deg.	F
temperature	11	(103.660)	=	103.660 deg.	F
temperature	12	(85.980)	=	85.980 deg.	F
temperature	13	(86.630)	=	86.630 deg.	F
temperature	14	(81.720)	=	81.720 deg.	F
temperature	15	(76.140)	=	76.140 deg.	F
temperature	16	(76.080)	=	76.080 deg.	F
temperature	17	(76.100)	=	76.100 deg.	F
temperature	18	(76.200)	=	76.200 deg.	F
dewpoint	1	(66.300)	=	66.300 deg.	F , 0.3196 psia
dewpoint	2	(65.810)	=	65.810 deg.	F , 0.3142 psia
dewpoint	3	(66.470)	=	66.470 deg.	F , 0.3215 psia
dewpoint	4	(66.030)	=	66.030 deg.	F , 0.3166 psia
dewpoint	5	(74.970)	=	74.970 deg.	F , 0.4292 psia
dewpoint	6	(75.280)	=	75.280 deg.	F , 0.4337 psia
pressure	1	(52.9086)	=	52.9086	psia
pressure	2	(52.9038)	=	52.9038	psia

weighted averages, volume and air mass

temperature	=	84.35713 deg.	F
pressure	=	52.90860	psia
vapor pressure	=	0.36412	psia
volume	=	343040	cu. ft.
dry air mass	=	89429.20	lbm

WNP2 1994 ILRT

data set 47

time = 1530 date = 719

sensor		raw data		value	
temperature	1	(106.100)	=	106.100 deg.	F
temperature	2	(95.300)	=	95.300 deg.	F
temperature	3	(105.110)	=	105.110 deg.	F
temperature	4	(82.910)	=	82.910 deg.	F
temperature	5	(100.420)	=	100.420 deg.	F
temperature	6	(83.420)	=	83.420 deg.	F
temperature	7	(87.090)	=	87.090 deg.	F
temperature	8	(84.570)	=	84.570 deg.	F
temperature	9	(85.820)	=	85.820 deg.	F
temperature	10	(102.600)	=	102.600 deg.	F
temperature	11	(103.630)	=	103.630 deg.	F
temperature	12	(85.970)	=	85.970 deg.	F
temperature	13	(86.660)	=	86.660 deg.	F
temperature	14	(81.710)	=	81.710 deg.	F
temperature	15	(76.130)	=	76.130 deg.	F
temperature	16	(76.080)	=	76.080 deg.	F
temperature	17	(76.090)	=	76.090 deg.	F
temperature	18	(76.190)	=	76.190 deg.	F
dewpoint	1	(66.410)	=	66.410 deg. F ,	0.3208 psia
dewpoint	2	(65.850)	=	65.850 deg. F ,	0.3146 psia
dewpoint	3	(66.530)	=	66.530 deg. F ,	0.3221 psia
dewpoint	4	(66.060)	=	66.060 deg. F ,	0.3169 psia
dewpoint	5	(75.000)	=	75.000 deg. F ,	0.4296 psia
dewpoint	6	(75.270)	=	75.270 deg. F ,	0.4335 psia
pressure	1	(52.9095)	=	52.9095	psia
pressure	2	(52.9045)	=	52.9045	psia

weighted averages, volume and air mass

temperature	=	84.35472 deg. F
pressure	=	52.90950 psia
vapor pressure	=	0.36455 psia
volume	=	343040 cu. ft.
dry air mass	=	89430.39 lbm

WNP2 1994 ILRT

data set 48

time = 1545 date = 719

sensor		raw data		value	
temperature	1	(106.100)	=	106.100	deg. F
temperature	2	(95.320)	=	95.320	deg. F
temperature	3	(105.070)	=	105.070	deg. F
temperature	4	(82.970)	=	82.970	deg. F
temperature	5	(100.430)	=	100.430	deg. F
temperature	6	(83.460)	=	83.460	deg. F
temperature	7	(87.120)	=	87.120	deg. F
temperature	8	(84.590)	=	84.590	deg. F
temperature	9	(85.880)	=	85.880	deg. F
temperature	10	(102.570)	=	102.570	deg. F
temperature	11	(103.630)	=	103.630	deg. F
temperature	12	(86.020)	=	86.020	deg. F
temperature	13	(86.700)	=	86.700	deg. F
temperature	14	(81.700)	=	81.700	deg. F
temperature	15	(76.130)	=	76.130	deg. F
temperature	16	(76.060)	=	76.060	deg. F
temperature	17	(76.080)	=	76.080	deg. F
temperature	18	(76.180)	=	76.180	deg. F
dewpoint	1	(66.450)	=	66.450	deg. F , 0.3212 psia
dewpoint	2	(65.940)	=	65.940	deg. F , 0.3156 psia
dewpoint	3	(66.640)	=	66.640	deg. F , 0.3234 psia
dewpoint	4	(66.120)	=	66.120	deg. F , 0.3176 psia
dewpoint	5	(75.060)	=	75.060	deg. F , 0.4305 psia
dewpoint	6	(75.220)	=	75.220	deg. F , 0.4328 psia
pressure	1	(52.9104)	=	52.9104	psia
pressure	2	(52.9056)	=	52.9056	psia

weighted averages, volume and air mass

temperature	=	84.36320 deg. F
pressure	=	52.91040 psia
vapor pressure	=	0.36511 psia
volume	=	343040 cu. ft.
dry air mass	=	89429.59 lbm

WNP2 1994 ILRT

data set 49

time = 1600 date = 719

sensor		raw data		value	
temperature	1	(106.100)	=	106.100 deg.	F
temperature	2	(95.350)	=	95.350 deg.	F
temperature	3	(105.040)	=	105.040 deg.	F
temperature	4	(83.000)	=	83.000 deg.	F
temperature	5	(100.440)	=	100.440 deg.	F
temperature	6	(83.470)	=	83.470 deg.	F
temperature	7	(87.140)	=	87.140 deg.	F
temperature	8	(84.620)	=	84.620 deg.	F
temperature	9	(85.950)	=	85.950 deg.	F
temperature	10	(102.600)	=	102.600 deg.	F
temperature	11	(103.670)	=	103.670 deg.	F
temperature	12	(86.040)	=	86.040 deg.	F
temperature	13	(86.720)	=	86.720 deg.	F
temperature	14	(81.730)	=	81.730 deg.	F
temperature	15	(76.120)	=	76.120 deg.	F
temperature	16	(76.060)	=	76.060 deg.	F
temperature	17	(76.060)	=	76.060 deg.	F
temperature	18	(76.160)	=	76.160 deg.	F
dewpoint	1	(66.560)	=	66.560 deg.	F , 0.3225 psia
dewpoint	2	(65.970)	=	65.970 deg.	F , 0.3159 psia
dewpoint	3	(66.690)	=	66.690 deg.	F , 0.3239 psia
dewpoint	4	(66.240)	=	66.240 deg.	F , 0.3189 psia
dewpoint	5	(75.020)	=	75.020 deg.	F , 0.4299 psia
dewpoint	6	(75.240)	=	75.240 deg.	F , 0.4331 psia
pressure	1	(52.9106)	=	52.9106	psia
pressure	2	(52.9060)	=	52.9060	psia

weighted averages, volume and air mass

temperature	=	84.37133 deg.	F
pressure	=	52.91060	psia
vapor pressure	=	0.36550	psia
volume	=	343040	cu. ft.
dry air mass	=	89427.93	lbm

PRE-DATA REPORT

title = WNP2 1994 ILRT -- Verification

volume = 343040

La = 0.5000

leap year : no

temperature volume fractions (sum = 1.0000)

t(1)=0.0200	t(2)=0.0390	t(3)=0.0400	t(4)=0.0550	t(5)=0.0390
t(6)=0.0550	t(7)=0.0460	t(8)=0.0460	t(9)=0.0460	t(10)=0.0390
t(11)=0.0200	t(12)=0.0460	t(13)=0.0460	t(14)=0.0550	t(15)=0.1020
t(16)=0.1020	t(17)=0.1020	t(18)=0.1020		

dewpoint volume fractions (sum = 1.0000)

dp(1)=0.1150	dp(2)=0.1970	dp(3)=0.1650	dp(4)=0.1150	dp(5)=0.2040
dp(6)=0.2040				

pressure volume fractions (sum = 1.0000)

p(1)=1.0000 p(2)=0.0000

WNP2 1994 ILRT -- Verification

DATA SUMMARY REPORT

data set	time	date	temperature deg F	pressure psia	vapor pressure psia	dry air mass lbm
1	1715	719	84.3848	52.9056	0.3674	89414.03
2	1730	719	84.3709	52.9015	0.3677	89408.84
3	1745	719	84.3662	52.8977	0.3678	89402.85
4	1800	719	84.3622	52.8937	0.3680	89396.34
5	1815	719	84.3630	52.8900	0.3684	89389.27
6	1830	719	84.3536	52.8864	0.3685	89384.57
7	1845	719	84.3590	52.8829	0.3687	89377.30
8	1900	719	84.3532	52.8794	0.3693	89371.36
9	1915	719	84.3538	52.8760	0.3697	89364.74
10	1930	719	84.3469	52.8725	0.3698	89359.75
11	1945	719	84.3465	52.8689	0.3698	89353.66
12	2000	719	84.3502	52.8655	0.3703	89346.41
13	2015	719	84.3433	52.8622	0.3707	89341.33
14	2030	719	84.3450	52.8587	0.3710	89334.53
15	2045	719	84.3363	52.8553	0.3712	89329.90
16	2100	719	84.3382	52.8518	0.3716	89322.96
17	2115	719	84.3360	52.8484	0.3715	89317.62

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data set 1

time = 1715 date = 719

sensor	raw data	value
temperature 1	(106.250)	= 106.250 deg. F
temperature 2	(95.560)	= 95.560 deg. F
temperature 3	(104.930)	= 104.930 deg. F
temperature 4	(83.040)	= 83.040 deg. F
temperature 5	(100.580)	= 100.580 deg. F
temperature 6	(83.540)	= 83.540 deg. F
temperature 7	(87.260)	= 87.260 deg. F
temperature 8	(84.650)	= 84.650 deg. F
temperature 9	(85.890)	= 85.890 deg. F
temperature 10	(102.690)	= 102.690 deg. F
temperature 11	(103.740)	= 103.740 deg. F
temperature 12	(86.140)	= 86.140 deg. F
temperature 13	(86.810)	= 86.810 deg. F
temperature 14	(81.700)	= 81.700 deg. F
temperature 15	(76.070)	= 76.070 deg. F
temperature 16	(76.000)	= 76.000 deg. F
temperature 17	(76.020)	= 76.020 deg. F
temperature 18	(76.120)	= 76.120 deg. F
dewpoint 1	(66.780)	= 66.780 deg. F , 0.3249 psia
dewpoint 2	(66.340)	= 66.340 deg. F , 0.3200 psia
dewpoint 3	(67.060)	= 67.060 deg. F , 0.3281 psia
dewpoint 4	(66.520)	= 66.520 deg. F , 0.3220 psia
dewpoint 5	(75.030)	= 75.030 deg. F , 0.4301 psia
dewpoint 6	(75.140)	= 75.140 deg. F , 0.4317 psia
pressure 1	(52.9056)	= 52.9056 psia
pressure 2	(52.9008)	= 52.9008 psia

weighted averages, volume and air mass

temperature	=	84.38480 deg. F
pressure	=	52.90560 psia
vapor pressure	=	0.36737 psia
volume	=	343040 cu. ft.
dry air mass	=	89414.03 lbm

WNP2 1994 ILRT -- Verification

data set 2

time = 1730 date = 719

sensor	raw data	value
temperature 1	(106.130)	= 106.130 deg. F
temperature 2	(95.560)	= 95.560 deg. F
temperature 3	(104.900)	= 104.900 deg. F
temperature 4	(83.010)	= 83.010 deg. F
temperature 5	(100.580)	= 100.580 deg. F
temperature 6	(83.520)	= 83.520 deg. F
temperature 7	(87.260)	= 87.260 deg. F
temperature 8	(84.650)	= 84.650 deg. F
temperature 9	(85.890)	= 85.890 deg. F
temperature 10	(102.680)	= 102.680 deg. F
temperature 11	(103.720)	= 103.720 deg. F
temperature 12	(86.100)	= 86.100 deg. F
temperature 13	(86.810)	= 86.810 deg. F
temperature 14	(81.700)	= 81.700 deg. F
temperature 15	(76.050)	= 76.050 deg. F
temperature 16	(75.990)	= 75.990 deg. F
temperature 17	(76.010)	= 76.010 deg. F
temperature 18	(76.110)	= 76.110 deg. F
dewpoint 1	(66.870)	= 66.870 deg. F , 0.3259 psia
dewpoint 2	(66.380)	= 66.380 deg. F , 0.3205 psia
dewpoint 3	(67.120)	= 67.120 deg. F , 0.3288 psia
dewpoint 4	(66.480)	= 66.480 deg. F , 0.3216 psia
dewpoint 5	(75.030)	= 75.030 deg. F , 0.4301 psia
dewpoint 6	(75.150)	= 75.150 deg. F , 0.4318 psia
pressure 1	(52.9015)	= 52.9015 psia
pressure 2	(52.8969)	= 52.8969 psia

weighted averages, volume and air mass

temperature	=	84.37088 deg. F
pressure	=	52.90150 psia
vapor pressure	=	0.36766 psia
volume	=	343040 cu. ft.
dry air mass	=	89408.84 lbm

WNP2 1994 ILRT -- Verification

data set 3

time = 1745 date = 719

sensor	raw data	value
temperature 1	(106.090)	= 106.090 deg. F
temperature 2	(95.570)	= 95.570 deg. F
temperature 3	(104.850)	= 104.850 deg. F
temperature 4	(83.000)	= 83.000 deg. F
temperature 5	(100.580)	= 100.580 deg. F
temperature 6	(83.520)	= 83.520 deg. F
temperature 7	(87.260)	= 87.260 deg. F
temperature 8	(84.670)	= 84.670 deg. F
temperature 9	(85.890)	= 85.890 deg. F
temperature 10	(102.670)	= 102.670 deg. F
temperature 11	(103.690)	= 103.690 deg. F
temperature 12	(86.130)	= 86.130 deg. F
temperature 13	(86.820)	= 86.820 deg. F
temperature 14	(81.710)	= 81.710 deg. F
temperature 15	(76.050)	= 76.050 deg. F
temperature 16	(75.980)	= 75.980 deg. F
temperature 17	(76.000)	= 76.000 deg. F
temperature 18	(76.090)	= 76.090 deg. F
dewpoint 1	(66.960)	= 66.960 deg. F , 0.3270 psia
dewpoint 2	(66.450)	= 66.450 deg. F , 0.3212 psia
dewpoint 3	(67.140)	= 67.140 deg. F , 0.3290 psia
dewpoint 4	(66.620)	= 66.620 deg. F , 0.3231 psia
dewpoint 5	(74.920)	= 74.920 deg. F , 0.4285 psia
dewpoint 6	(75.150)	= 75.150 deg. F , 0.4318 psia
pressure 1	(52.8977)	= 52.8977 psia
pressure 2	(52.8930)	= 52.8930 psia

weighted averages, volume and air mass

temperature	=	84.36623 deg. F
pressure	=	52.89770 psia
vapor pressure	=	0.36783 psia
volume	=	343040 cu. ft.
dry air mass	=	89402.85 lbm

WNP2 1994 ILRT -- Verification

data set 4

time = 1800 date = 719

sensor	raw data	value
temperature 1	(106.020)	= 106.020 deg. F
temperature 2	(95.580)	= 95.580 deg. F
temperature 3	(104.830)	= 104.830 deg. F
temperature 4	(83.030)	= 83.030 deg. F
temperature 5	(100.580)	= 100.580 deg. F
temperature 6	(83.540)	= 83.540 deg. F
temperature 7	(87.270)	= 87.270 deg. F
temperature 8	(84.660)	= 84.660 deg. F
temperature 9	(85.890)	= 85.890 deg. F
temperature 10	(102.660)	= 102.660 deg. F
temperature 11	(103.660)	= 103.660 deg. F
temperature 12	(86.140)	= 86.140 deg. F
temperature 13	(86.820)	= 86.820 deg. F
temperature 14	(81.700)	= 81.700 deg. F
temperature 15	(76.030)	= 76.030 deg. F
temperature 16	(75.970)	= 75.970 deg. F
temperature 17	(75.990)	= 75.990 deg. F
temperature 18	(76.090)	= 76.090 deg. F
dewpoint 1	(66.990)	= 66.990 deg. F , 0.3273 psia
dewpoint 2	(66.490)	= 66.490 deg. F , 0.3217 psia
dewpoint 3	(67.210)	= 67.210 deg. F , 0.3298 psia
dewpoint 4	(66.610)	= 66.610 deg. F , 0.3230 psia
dewpoint 5	(74.890)	= 74.890 deg. F , 0.4281 psia
dewpoint 6	(75.170)	= 75.170 deg. F , 0.4321 psia
pressure 1	(52.8937)	= 52.8937 psia
pressure 2	(52.8893)	= 52.8893 psia

weighted averages, volume and air mass

temperature	=	84.36217 deg. F
pressure	=	52.89370 psia
vapor pressure	=	0.36804 psia
volume	=	343040 cu. ft.
dry air mass	=	89396.34 lbm

WNP2 1994 ILRT -- Verification

data set 5

time = 1815 date = 719

sensor		raw data		value	
temperature	1	(105.960)	=	105.960 deg. F	
temperature	2	(95.590)	=	95.590 deg. F	
temperature	3	(104.820)	=	104.820 deg. F	
temperature	4	(83.030)	=	83.030 deg. F	
temperature	5	(100.590)	=	100.590 deg. F	
temperature	6	(83.540)	=	83.540 deg. F	
temperature	7	(87.280)	=	87.280 deg. F	
temperature	8	(84.660)	=	84.660 deg. F	
temperature	9	(85.960)	=	85.960 deg. F	
temperature	10	(102.650)	=	102.650 deg. F	
temperature	11	(103.650)	=	103.650 deg. F	
temperature	12	(86.120)	=	86.120 deg. F	
temperature	13	(86.840)	=	86.840 deg. F	
temperature	14	(81.710)	=	81.710 deg. F	
temperature	15	(76.030)	=	76.030 deg. F	
temperature	16	(75.970)	=	75.970 deg. F	
temperature	17	(75.980)	=	75.980 deg. F	
temperature	18	(76.080)	=	76.080 deg. F	
dewpoint	1	(67.070)	=	67.070 deg. F	0.3282 psia
dewpoint	2	(66.550)	=	66.550 deg. F	0.3223 psia
dewpoint	3	(67.310)	=	67.310 deg. F	0.3309 psia
dewpoint	4	(66.710)	=	66.710 deg. F	0.3241 psia
dewpoint	5	(74.880)	=	74.880 deg. F	0.4279 psia
dewpoint	6	(75.120)	=	75.120 deg. F	0.4314 psia
pressure	1	(52.8900)	=	52.8900 psia	
pressure	2	(52.8857)	=	52.8857 psia	

weighted averages, volume and air mass

temperature	=	84.36295 deg. F
pressure	=	52.89000 psia
vapor pressure	=	0.36842 psia
volume	=	343040 cu. ft.
dry air mass	=	89389.27 lbm

WNP2 1994 ILRT -- Verification

data set 6

time = 1830 date = 719

sensor	raw data	value
temperature 1	(105.910)	= 105.910 deg. F
temperature 2	(95.610)	= 95.610 deg. F
temperature 3	(104.760)	= 104.760 deg. F
temperature 4	(83.040)	= 83.040 deg. F
temperature 5	(100.570)	= 100.570 deg. F
temperature 6	(83.550)	= 83.550 deg. F
temperature 7	(87.290)	= 87.290 deg. F
temperature 8	(84.650)	= 84.650 deg. F
temperature 9	(85.930)	= 85.930 deg. F
temperature 10	(102.630)	= 102.630 deg. F
temperature 11	(103.640)	= 103.640 deg. F
temperature 12	(86.160)	= 86.160 deg. F
temperature 13	(86.850)	= 86.850 deg. F
temperature 14	(81.710)	= 81.710 deg. F
temperature 15	(76.020)	= 76.020 deg. F
temperature 16	(75.950)	= 75.950 deg. F
temperature 17	(75.960)	= 75.960 deg. F
temperature 18	(76.060)	= 76.060 deg. F
dewpoint 1	(67.100)	= 67.100 deg. F , 0.3285 psia
dewpoint 2	(66.610)	= 66.610 deg. F , 0.3230 psia
dewpoint 3	(67.280)	= 67.280 deg. F , 0.3306 psia
dewpoint 4	(66.700)	= 66.700 deg. F , 0.3240 psia
dewpoint 5	(74.880)	= 74.880 deg. F , 0.4279 psia
dewpoint 6	(75.110)	= 75.110 deg. F , 0.4312 psia
pressure 1	(52.8864)	= 52.8864 psia
pressure 2	(52.8821)	= 52.8821 psia

weighted averages, volume and air mass

temperature	=	84.35355 deg. F
pressure	=	52.88640 psia
vapor pressure	=	0.36849 psia
volume	=	343040 cu. ft.
dry air mass	=	89384.57 lbm

WNP2 1994 ILRT -- Verification

data set 7

time = 1845 date = 719

sensor	raw data	value
temperature 1	(105.890)	= 105.890 deg. F
temperature 2	(95.630)	= 95.630 deg. F
temperature 3	(104.710)	= 104.710 deg. F
temperature 4	(83.060)	= 83.060 deg. F
temperature 5	(100.590)	= 100.590 deg. F
temperature 6	(83.570)	= 83.570 deg. F
temperature 7	(87.310)	= 87.310 deg. F
temperature 8	(84.640)	= 84.640 deg. F
temperature 9	(85.970)	= 85.970 deg. F
temperature 10	(102.640)	= 102.640 deg. F
temperature 11	(103.630)	= 103.630 deg. F
temperature 12	(86.150)	= 86.150 deg. F
temperature 13	(86.870)	= 86.870 deg. F
temperature 14	(81.710)	= 81.710 deg. F
temperature 15	(76.010)	= 76.010 deg. F
temperature 16	(75.960)	= 75.960 deg. F
temperature 17	(75.970)	= 75.970 deg. F
temperature 18	(76.060)	= 76.060 deg. F
dewpoint 1	(67.140)	= 67.140 deg. F , 0.3290 psia
dewpoint 2	(66.660)	= 66.660 deg. F , 0.3236 psia
dewpoint 3	(67.350)	= 67.350 deg. F , 0.3314 psia
dewpoint 4	(66.820)	= 66.820 deg. F , 0.3254 psia
dewpoint 5	(74.810)	= 74.810 deg. F , 0.4269 psia
dewpoint 6	(75.110)	= 75.110 deg. F , 0.4312 psia
pressure 1	(52.8829)	= 52.8829 psia
pressure 2	(52.8784)	= 52.8784 psia

weighted averages, volume and air mass

temperature	=	84.35899 deg. F
pressure	=	52.88290 psia
vapor pressure	=	0.36874 psia
volume	=	343040 cu. ft.
dry air mass	=	89377.30 lbm

WNP2 1994 ILRT -- Verification

data set 8

time = 1900 date = 719

sensor		raw data		value	
temperature	1	(105.880)	=	105.880 deg. F	
temperature	2	(95.660)	=	95.660 deg. F	
temperature	3	(104.710)	=	104.710 deg. F	
temperature	4	(83.060)	=	83.060 deg. F	
temperature	5	(100.590)	=	100.590 deg. F	
temperature	6	(83.570)	=	83.570 deg. F	
temperature	7	(87.320)	=	87.320 deg. F	
temperature	8	(84.650)	=	84.650 deg. F	
temperature	9	(85.890)	=	85.890 deg. F	
temperature	10	(102.630)	=	102.630 deg. F	
temperature	11	(103.610)	=	103.610 deg. F	
temperature	12	(86.150)	=	86.150 deg. F	
temperature	13	(86.880)	=	86.880 deg. F	
temperature	14	(81.720)	=	81.720 deg. F	
temperature	15	(76.000)	=	76.000 deg. F	
temperature	16	(75.940)	=	75.940 deg. F	
temperature	17	(75.960)	=	75.960 deg. F	
temperature	18	(76.060)	=	76.060 deg. F	
dewpoint	1	(67.220)	=	67.220 deg. F	, 0.3299 psia
dewpoint	2	(66.730)	=	66.730 deg. F	, 0.3244 psia
dewpoint	3	(67.380)	=	67.380 deg. F	, 0.3317 psia
dewpoint	4	(66.910)	=	66.910 deg. F	, 0.3264 psia
dewpoint	5	(74.840)	=	74.840 deg. F	, 0.4274 psia
dewpoint	6	(75.120)	=	75.120 deg. F	, 0.4314 psia
pressure	1	(52.8794)	=	52.8794 psia	
pressure	2	(52.8747)	=	52.8747 psia	

weighted averages, volume and air mass

temperature	=	84.35320 deg. F
pressure	=	52.87940 psia
vapor pressure	=	0.36929 psia
volume	=	343040 cu. ft.
dry air mass	=	89371.36 lbm

WNP2 1994 ILRT -- Verification

data set 9

time = 1915 date = 719

sensor	raw data	value
temperature 1	(105.860)	= 105.860 deg. F
temperature 2	(95.680)	= 95.680 deg. F
temperature 3	(104.670)	= 104.670 deg. F
temperature 4	(83.060)	= 83.060 deg. F
temperature 5	(100.600)	= 100.600 deg. F
temperature 6	(83.570)	= 83.570 deg. F
temperature 7	(87.330)	= 87.330 deg. F
temperature 8	(84.630)	= 84.630 deg. F
temperature 9	(85.980)	= 85.980 deg. F
temperature 10	(102.630)	= 102.630 deg. F
temperature 11	(103.610)	= 103.610 deg. F
temperature 12	(86.180)	= 86.180 deg. F
temperature 13	(86.880)	= 86.880 deg. F
temperature 14	(81.710)	= 81.710 deg. F
temperature 15	(76.000)	= 76.000 deg. F
temperature 16	(75.930)	= 75.930 deg. F
temperature 17	(75.950)	= 75.950 deg. F
temperature 18	(76.050)	= 76.050 deg. F
dewpoint 1	(67.260)	= 67.260 deg. F , 0.3304 psia
dewpoint 2	(66.800)	= 66.800 deg. F , 0.3251 psia
dewpoint 3	(67.570)	= 67.570 deg. F , 0.3339 psia
dewpoint 4	(66.940)	= 66.940 deg. F , 0.3267 psia
dewpoint 5	(74.780)	= 74.780 deg. F , 0.4265 psia
dewpoint 6	(75.120)	= 75.120 deg. F , 0.4314 psia
pressure 1	(52.8760)	= 52.8760 psia
pressure 2	(52.8714)	= 52.8714 psia

weighted averages, volume and air mass

temperature	=	84.35383 deg. F
pressure	=	52.87600 psia
vapor pressure	=	0.36972 psia
volume	=	343040 cu. ft.
dry air mass	=	89364.74 lbm

WNP2 1994 ILRT -- Verification

data set 10

time = 1930 date = 719

sensor		raw data		value	
temperature	1	(105.830)	=	105.830	deg. F
temperature	2	(95.690)	=	95.690	deg. F
temperature	3	(104.650)	=	104.650	deg. F
temperature	4	(83.050)	=	83.050	deg. F
temperature	5	(100.590)	=	100.590	deg. F
temperature	6	(83.580)	=	83.580	deg. F
temperature	7	(87.350)	=	87.350	deg. F
temperature	8	(84.610)	=	84.610	deg. F
temperature	9	(86.010)	=	86.010	deg. F
temperature	10	(102.620)	=	102.620	deg. F
temperature	11	(103.590)	=	103.590	deg. F
temperature	12	(86.150)	=	86.150	deg. F
temperature	13	(86.900)	=	86.900	deg. F
temperature	14	(81.700)	=	81.700	deg. F
temperature	15	(75.980)	=	75.980	deg. F
temperature	16	(75.930)	=	75.930	deg. F
temperature	17	(75.940)	=	75.940	deg. F
temperature	18	(76.030)	=	76.030	deg. F
dewpoint	1	(67.330)	=	67.330	deg. F , 0.3312 psia
dewpoint	2	(66.860)	=	66.860	deg. F , 0.3258 psia
dewpoint	3	(67.500)	=	67.500	deg. F , 0.3331 psia
dewpoint	4	(66.970)	=	66.970	deg. F , 0.3271 psia
dewpoint	5	(74.790)	=	74.790	deg. F , 0.4266 psia
dewpoint	6	(75.100)	=	75.100	deg. F , 0.4311 psia
pressure	1	(52.8725)	=	52.8725	psia
pressure	2	(52.8680)	=	52.8680	psia

weighted averages, volume and air mass

temperature	=	84.34686 deg. F
pressure	=	52.87250 psia
vapor pressure	=	0.36982 psia
volume	=	343040 cu. ft.
dry air mass	=	89359.75 lbm

WNP2 1994 ILRT -- Verification

data set 11

time = 1945 date = 719

sensor	raw data	value
temperature 1	(105.820)	= 105.820 deg. F
temperature 2	(95.720)	= 95.720 deg. F
temperature 3	(104.620)	= 104.620 deg. F
temperature 4	(83.070)	= 83.070 deg. F
temperature 5	(100.610)	= 100.610 deg. F
temperature 6	(83.590)	= 83.590 deg. F
temperature 7	(87.370)	= 87.370 deg. F
temperature 8	(84.610)	= 84.610 deg. F
temperature 9	(85.970)	= 85.970 deg. F
temperature 10	(102.610)	= 102.610 deg. F
temperature 11	(103.580)	= 103.580 deg. F
temperature 12	(86.170)	= 86.170 deg. F
temperature 13	(86.910)	= 86.910 deg. F
temperature 14	(81.730)	= 81.730 deg. F
temperature 15	(75.970)	= 75.970 deg. F
temperature 16	(75.920)	= 75.920 deg. F
temperature 17	(75.930)	= 75.930 deg. F
temperature 18	(76.020)	= 76.020 deg. F
dewpoint 1	(67.360)	= 67.360 deg. F , 0.3315 psia
dewpoint 2	(66.890)	= 66.890 deg. F , 0.3262 psia
dewpoint 3	(67.580)	= 67.580 deg. F , 0.3340 psia
dewpoint 4	(66.940)	= 66.940 deg. F , 0.3267 psia
dewpoint 5	(74.760)	= 74.760 deg. F , 0.4262 psia
dewpoint 6	(75.060)	= 75.060 deg. F , 0.4305 psia
pressure 1	(52.8689)	= 52.8689 psia
pressure 2	(52.8644)	= 52.8644 psia

weighted averages, volume and air mass

temperature	=	84.34649 deg. F
pressure	=	52.86890 psia
vapor pressure	=	0.36983 psia
volume	=	343040 cu. ft.
dry air mass	=	89353.66 lbm

WNP2 1994 ILRT -- Verification

data set 12

time = 2000 date = 719

sensor	raw data	value
temperature 1	(105.800)	= 105.800 deg. F
temperature 2	(95.750)	= 95.750 deg. F
temperature 3	(104.580)	= 104.580 deg. F
temperature 4	(83.100)	= 83.100 deg. F
temperature 5	(100.610)	= 100.610 deg. F
temperature 6	(83.600)	= 83.600 deg. F
temperature 7	(87.390)	= 87.390 deg. F
temperature 8	(84.620)	= 84.620 deg. F
temperature 9	(85.950)	= 85.950 deg. F
temperature 10	(102.620)	= 102.620 deg. F
temperature 11	(103.590)	= 103.590 deg. F
temperature 12	(86.190)	= 86.190 deg. F
temperature 13	(86.930)	= 86.930 deg. F
temperature 14	(81.720)	= 81.720 deg. F
temperature 15	(75.980)	= 75.980 deg. F
temperature 16	(75.910)	= 75.910 deg. F
temperature 17	(75.930)	= 75.930 deg. F
temperature 18	(76.020)	= 76.020 deg. F
dewpoint 1	(67.420)	= 67.420 deg. F , 0.3322 psia
dewpoint 2	(66.960)	= 66.960 deg. F , 0.3270 psia
dewpoint 3	(67.660)	= 67.660 deg. F , 0.3349 psia
dewpoint 4	(67.050)	= 67.050 deg. F , 0.3280 psia
dewpoint 5	(74.760)	= 74.760 deg. F , 0.4262 psia
dewpoint 6	(75.050)	= 75.050 deg. F , 0.4304 psia
pressure 1	(52.8655)	= 52.8655 psia
pressure 2	(52.8610)	= 52.8610 psia

weighted averages, volume and air mass

temperature	=	84.35021 deg. F
pressure	=	52.86550 psia
vapor pressure	=	0.37033 psia
volume	=	343040 cu. ft.
dry air mass	=	89346.41 lbm

WNP2 1994 ILRT -- Verification

data set 13

time = 2015 date = 719

sensor		raw data		value	
temperature	1	(105.800)	=	105.800 deg. F	
temperature	2	(95.760)	=	95.760 deg. F	
temperature	3	(104.520)	=	104.520 deg. F	
temperature	4	(83.070)	=	83.070 deg. F	
temperature	5	(100.620)	=	100.620 deg. F	
temperature	6	(83.600)	=	83.600 deg. F	
temperature	7	(87.390)	=	87.390 deg. F	
temperature	8	(84.610)	=	84.610 deg. F	
temperature	9	(86.010)	=	86.010 deg. F	
temperature	10	(102.600)	=	102.600 deg. F	
temperature	11	(103.560)	=	103.560 deg. F	
temperature	12	(86.190)	=	86.190 deg. F	
temperature	13	(86.930)	=	86.930 deg. F	
temperature	14	(81.710)	=	81.710 deg. F	
temperature	15	(75.960)	=	75.960 deg. F	
temperature	16	(75.910)	=	75.910 deg. F	
temperature	17	(75.920)	=	75.920 deg. F	
temperature	18	(76.010)	=	76.010 deg. F	
dewpoint	1	(67.450)	=	67.450 deg. F	, 0.3325 psia
dewpoint	2	(67.010)	=	67.010 deg. F	, 0.3275 psia
dewpoint	3	(67.660)	=	67.660 deg. F	, 0.3349 psia
dewpoint	4	(67.140)	=	67.140 deg. F	, 0.3290 psia
dewpoint	5	(74.770)	=	74.770 deg. F	, 0.4264 psia
dewpoint	6	(75.070)	=	75.070 deg. F	, 0.4306 psia
pressure	1	(52.8622)	=	52.8622 psia	
pressure	2	(52.8576)	=	52.8576 psia	

weighted averages, volume and air mass

temperature	=	84.34328 deg. F
pressure	=	52.86220 psia
vapor pressure	=	0.37069 psia
volume	=	343040 cu. ft.
dry air mass	=	89341.33 lbm

WNP2 1994 ILRT -- Verification

data set 14

time = 2030 date = 719

sensor	raw data	value
temperature 1	(105.770)	= 105.770 deg. F
temperature 2	(95.780)	= 95.780 deg. F
temperature 3	(104.530)	= 104.530 deg. F
temperature 4	(83.100)	= 83.100 deg. F
temperature 5	(100.620)	= 100.620 deg. F
temperature 6	(83.610)	= 83.610 deg. F
temperature 7	(87.400)	= 87.400 deg. F
temperature 8	(84.610)	= 84.610 deg. F
temperature 9	(86.080)	= 86.080 deg. F
temperature 10	(102.610)	= 102.610 deg. F
temperature 11	(103.550)	= 103.550 deg. F
temperature 12	(86.210)	= 86.210 deg. F
temperature 13	(86.930)	= 86.930 deg. F
temperature 14	(81.700)	= 81.700 deg. F
temperature 15	(75.950)	= 75.950 deg. F
temperature 16	(75.890)	= 75.890 deg. F
temperature 17	(75.910)	= 75.910 deg. F
temperature 18	(76.000)	= 76.000 deg. F
dewpoint 1	(67.560)	= 67.560 deg. F , 0.3338 psia
dewpoint 2	(67.050)	= 67.050 deg. F , 0.3280 psia
dewpoint 3	(67.760)	= 67.760 deg. F , 0.3361 psia
dewpoint 4	(67.110)	= 67.110 deg. F , 0.3287 psia
dewpoint 5	(74.760)	= 74.760 deg. F , 0.4262 psia
dewpoint 6	(75.060)	= 75.060 deg. F , 0.4305 psia
pressure 1	(52.8587)	= 52.8587 psia
pressure 2	(52.8543)	= 52.8543 psia

weighted averages, volume and air mass

temperature	=	84.34497 deg. F
pressure	=	52.85870 psia
vapor pressure	=	0.37102 psia
volume	=	343040 cu. ft.
dry air mass	=	89334.53 lbm

WNP2 1994 ILRT -- Verification

data set 15

time = 2045 date = 719

sensor		raw data		value	
temperature	1	(105.750)	=	105.750	deg. F
temperature	2	(95.810)	=	95.810	deg. F
temperature	3	(104.460)	=	104.460	deg. F
temperature	4	(83.100)	=	83.100	deg. F
temperature	5	(100.630)	=	100.630	deg. F
temperature	6	(83.610)	=	83.610	deg. F
temperature	7	(87.410)	=	87.410	deg. F
temperature	8	(84.600)	=	84.600	deg. F
temperature	9	(85.990)	=	85.990	deg. F
temperature	10	(102.600)	=	102.600	deg. F
temperature	11	(103.550)	=	103.550	deg. F
temperature	12	(86.200)	=	86.200	deg. F
temperature	13	(86.950)	=	86.950	deg. F
temperature	14	(81.700)	=	81.700	deg. F
temperature	15	(75.940)	=	75.940	deg. F
temperature	16	(75.880)	=	75.880	deg. F
temperature	17	(75.900)	=	75.900	deg. F
temperature	18	(76.000)	=	76.000	deg. F
dewpoint	1	(67.570)	=	67.570	deg. F , 0.3339 psia
dewpoint	2	(67.130)	=	67.130	deg. F , 0.3289 psia
dewpoint	3	(67.780)	=	67.780	deg. F , 0.3363 psia
dewpoint	4	(67.170)	=	67.170	deg. F , 0.3293 psia
dewpoint	5	(74.720)	=	74.720	deg. F , 0.4256 psia
dewpoint	6	(75.050)	=	75.050	deg. F , 0.4304 psia
pressure	1	(52.8553)	=	52.8553	psia
pressure	2	(52.8508)	=	52.8508	psia

weighted averages, volume and air mass

temperature	=	84.33629	deg. F
pressure	=	52.85530	psia
vapor pressure	=	0.37118	psia
volume	=	343040	cu. ft.
dry air mass	=	89329.90	lbm

WNP2 1994 ILRT -- Verification

data set 16

time = 2100 date = 719

sensor	raw data	value
temperature 1	(105.750)	= 105.750 deg. F
temperature 2	(95.840)	= 95.840 deg. F
temperature 3	(104.470)	= 104.470 deg. F
temperature 4	(83.090)	= 83.090 deg. F
temperature 5	(100.640)	= 100.640 deg. F
temperature 6	(83.610)	= 83.610 deg. F
temperature 7	(87.430)	= 87.430 deg. F
temperature 8	(84.600)	= 84.600 deg. F
temperature 9	(86.010)	= 86.010 deg. F
temperature 10	(102.600)	= 102.600 deg. F
temperature 11	(103.550)	= 103.550 deg. F
temperature 12	(86.200)	= 86.200 deg. F
temperature 13	(86.970)	= 86.970 deg. F
temperature 14	(81.680)	= 81.680 deg. F
temperature 15	(75.940)	= 75.940 deg. F
temperature 16	(75.880)	= 75.880 deg. F
temperature 17	(75.900)	= 75.900 deg. F
temperature 18	(75.990)	= 75.990 deg. F
dewpoint 1	(67.640)	= 67.640 deg. F , 0.3347 psia
dewpoint 2	(67.170)	= 67.170 deg. F , 0.3293 psia
dewpoint 3	(67.870)	= 67.870 deg. F , 0.3374 psia
dewpoint 4	(67.240)	= 67.240 deg. F , 0.3301 psia
dewpoint 5	(74.700)	= 74.700 deg. F , 0.4254 psia
dewpoint 6	(75.050)	= 75.050 deg. F , 0.4304 psia
pressure 1	(52.8518)	= 52.8518 psia
pressure 2	(52.8474)	= 52.8474 psia

weighted averages, volume and air mass

temperature	=	84.33818 deg. F
pressure	=	52.85180 psia
vapor pressure	=	0.37157 psia
volume	=	343040 cu. ft.
dry air mass	=	89322.96 lbm

WNP2 1994 ILRT -- Verification

data set 17

time = 2115 date = 719

sensor		raw data		value	
temperature	1	(105.730)	=	105.730 deg. F	
temperature	2	(95.860)	=	95.860 deg. F	
temperature	3	(104.400)	=	104.400 deg. F	
temperature	4	(83.110)	=	83.110 deg. F	
temperature	5	(100.650)	=	100.650 deg. F	
temperature	6	(83.620)	=	83.620 deg. F	
temperature	7	(87.440)	=	87.440 deg. F	
temperature	8	(84.610)	=	84.610 deg. F	
temperature	9	(86.010)	=	86.010 deg. F	
temperature	10	(102.600)	=	102.600 deg. F	
temperature	11	(103.540)	=	103.540 deg. F	
temperature	12	(86.210)	=	86.210 deg. F	
temperature	13	(86.970)	=	86.970 deg. F	
temperature	14	(81.700)	=	81.700 deg. F	
temperature	15	(75.930)	=	75.930 deg. F	
temperature	16	(75.870)	=	75.870 deg. F	
temperature	17	(75.890)	=	75.890 deg. F	
temperature	18	(75.980)	=	75.980 deg. F	
dewpoint	1	(67.640)	=	67.640 deg. F	, 0.3347 psia
dewpoint	2	(67.230)	=	67.230 deg. F	, 0.3300 psia
dewpoint	3	(67.880)	=	67.880 deg. F	, 0.3375 psia
dewpoint	4	(67.280)	=	67.280 deg. F	, 0.3306 psia
dewpoint	5	(74.620)	=	74.620 deg. F	, 0.4242 psia
dewpoint	6	(75.040)	=	75.040 deg. F	, 0.4302 psia
pressure	1	(52.8484)	=	52.8484 psia	
pressure	2	(52.8440)	=	52.8440 psia	

weighted averages, volume and air mass

temperature	=	84.33604 deg. F
pressure	=	52.84840 psia
vapor pressure	=	0.37151 psia
volume	=	343040 cu. ft.
dry air mass	=	89317.62 lbm

APPENDIX IV
TYPE B & C TEST RESULTS
SUMMARY REPORT

**TYPE B & C TEST RESULTS
SUMMARY REPORT**

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**TYPE B & C TEST RESULTS
SUMMARY REPORT**

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1.0 INTRODUCTION

During each annual spring outage in 1992, 1993 and 1994, Type B and C local leak rate testing was performed on Primary Containment Isolation Valves as prescribed by Appendix J, WNP-2 FSAR and Plant Technical Specifications. Leak testing is initially performed with valves in their "as-found" condition, i.e. prior to any adjustments or repairs which would affect a valve's leakage characteristics. Each Type C penetration is analyzed for total leakage using single failure criteria to arrive at the 'maximum pathway' leakage rate total for that containment penetration. The total penetration leakage reported is the largest leak rate calculated from considering all possible single failures of active isolation boundaries.

The Primary Containment Integrated Leak Rate Test (PCILRT) was conducted at the end of the 1994 outage, after Type B and C testing was complete. Several isolation valves were repaired prior to the PCILRT due to excessive leakage detected from LLRT's or due to scheduled maintenance on resilient seals. The ILRT results (as-left) are adjusted by the difference in minimum pathway leakage rates before and after repairs or maintenance activities to arrive at the Type A "as-found" value.

The totals for Type B and C testing for the 1992, 1993 and 1994 outages yielded as-found values less than 0.6 La.

2.0 DISCUSSION (Type B & C Tests)

2.1 Methods

The pneumatic Type B and C tests were performed utilizing the Pressure Decay and Flow Makeup Methods. Hydrostatic Type C testing on water sealed valves was accomplished using the Flow Makeup Method.

2.2 Specific Testing Categories, Acceptance Criteria, and Results

The first category consists of air and nitrogen - tested Type B & C penetrations. During the 1992, 1993 and 1994 outages, Type B & C testing was performed in accordance with Exemption to Appendix J Testing issued by the NRC with Amendment No. 41 to Facility Operating License NPF-21. This allowed testing of approximately half of the Type B & C penetrations during each shutdown for refueling. For determining the Type B & C summations, those penetrations not tested have leakage values applied from the previous outage as-left condition.

The measured As-Left Type B & C Leakage Rate summations are tabulated in the following Table 1.

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Outage Year	Sum of Type B	Sum of Type C	Sum of Type B & C	Allowable Limit
1992	2,646 sccm	14,768 sccm	17,414 sccm	56,600 sccm (0.5 La)
1993	410 sccm	10,774 sccm	11,184 sccm	56,600 sccm (0.5 La)
1994	3,148 sccm	11,188 sccm	14,336 sccm	56,600 sccm (0.5 La)

Table 1. LLRT As-Left Results for Type B & C Testing Performed Since 1991 ILRT

Outage Year	Sum of Type B	Sum of Type C	Sum of Type B & C	Allowable Limit
1992	2,627 sccm	15,301 sccm	17,928 sccm	56,600 sccm (0.5 La)
1993	689 sccm	13,558 sccm	14,247 sccm	56,600 sccm (0.5 La)
1994	774 sccm	13,489 sccm	14,263 sccm	56,600 sccm (0.5 La)

Table 2. LLRT As-Found Results for Type B & C Testing Performed Since 1991 ILRT

The second category is a subset of the above Type C tests, being the measured leakage rates on the secondary containment bypass lines that must be included in the sum of the Type B & C tests. The allowable leakage rate from these secondary containment bypass sources is 349.2 sccm. The total is derived by employing minimum pathway analysis for these specific penetrations with exception of the penetration yielding the largest leakage from a single component failure⁽¹⁾. The results are tabulated in Table 3.

Notes: 1. Passive components are considered exempt.

Penetration	Service	Leakage Rate (SCCM)		
		1992	1993	1994
X-14	RWCU from RPV	0.0	30.7	7.5
X-22	MS Drain	11.9	11.9	1.0
X-27f	TIP Line	4.0	*62.9	0.2
X-53	Drywell HVAC Supply	52.5	27.2	0.8
X-56	CIA to SRV Accumulators	*18.6	17.7	*95.6
X-66	Wetwell HVAC Supply	19.0	1.7	9.4
X-77Aa	RRC Sample Line	12.0	1.0	28.3
X-92	DW Service to Drywell	9.5	0.4	1.5
X-93	Air to Drywell for Maintenance	0.0	1.2	3.9
*Failed Component	TOTALS	127.5	154.7	148.2

Table 3. LLRT Results for Secondary Bypass Leakage Sources

A third category applies to the Main Steam Isolation Valves (MSIV's). they are similar to the second category in that any process line leakage passes directly from the PRC to the Turbine Building, thereby "bypassing" the SGT system. The line leakage is not

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added to the sum of the Type C leakage rates because the Main Steam Leakage Control System intercepts all leakage past the inboard CIV up to the allowable limit. The allowable leakage rate per Technical Specifications is 5,428 sccm per valve at test pressure of 25 psig. The as-left test results are tabulated in Table 3.

Penetration	As-Left Leakage Rate (SCCM)		
	1992	1993	1994
X-18A	2,285	3,903	3,291
X-18B	3,715	344	500
X-18C	3,719	656	1,594
X-18D	5,137	344	3,251

Table 4. As-Left LLRT Results for MSIV's

The fourth and final category pertains to Containment Isolation Valves (CIV) sealed with fluid from a seal system. Hydrostatic tests were performed on water sealed valves required to maintain Primary Reactor Coolant System integrity during an accident event. Leak rate testing was performed at a pressure equal to 1.1 Pa using the flow makeup method with water. The maximum allowable leakage rate per Technical Specifications is 1.0 gpm times the total number of valves (currently, there are seven penetrations and nine valves in this category). The total number of valves greatly decreased with the exclusion of vent and drain connections from the leak rate program in 1990. The total measured leakage from all valves was 0.070 gpm for the 1992 outage, 0.050 gpm for the 1993 outage, and 3.204 gpm for the 1994 outage.

3.0 TYPE B & C AS-FOUND TESTING

During the 1992, 1993 and 1994 testing sequences, the total Type B & C As-Found leakage rates were below the allowable limit of 0.6 La (67,920 sccm). Tables 5,6 and 7 list the isolation valves repaired or otherwise adjusted due to excessive as-found leakage and includes a description of the deficiency which caused the excessive leakage and the corrective action taken to reduce the leakage.

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Pen #	Valve No.	As-Found (SCCM)	As-Left (SCCM)	Deficiency/Corrective Action
X-5	RCC-V-5	15,662	451	REWORK VALVE SEAT
X-13	SLC-V-7	870	35.2	MACHINED VALVE SEAT
X-25A	RHR-V-27A	11.0	0.0	LAP VALVE SEAT
X-48	RHR-FCV-64B	4,780	8.5	REPAIR VALVE SEAT
X-56	CIA-V-21	244	5.0	REPAIR SOFT SEAT
X-83A	PSR-V-X83/1	184.1	113.4	LAP VALVE SEAT
X-96	CAC-FCV-2A	>20,000	192.8	REWORK VALVE INTERNALS
X-98	CAC-FCV-2B	1,643	143.0	REWORK VALVE INTERNALS
X-102	CAC-FCV-4A	>20,000	70.7	REWORK VALVE INTERNALS
X-103	CAC-FCV-4B	4,787	1,110	REWORK VALVE INTERNALS
X-117	RHR-V-134A	38.0	575	LAP VALVE SEAT

Table 5. 1992 Outage - Isolation Valves Repaired/Adjusted

Pen #	Valve No.	As-Found (SCCM)	As-Left (SCCM)	Deficiency/Corrective Action
X-5	RCC-V-5,-104	4,200	0.0	FLUSHED W/ WATER
X-56	CIA-V-20	1,530	17.7	MOVATS
X-56	CIA-V-21	6,950	18.7	REPAIR SOFT SEAT
X-83A	PSR-V-X83/1	274	35.6	FLUSHED W/ WATER
X-99	CAC-V-6 CAC-FCV-1A	5,200	826	REWORK VALVE INTERNALS
X-103	CAC-V-13 CAC-FCV-4B	1,330	0.5	MOVATS

Table 6. 1993 Outage - Isolation Valves Repaired/Adjusted

Pen #	Valve No.	As-Found (SCCM)	As-Left (SCCM)	Deficiency/Corrective Action
X-17B	RFW-V-10B	14,130	3,243	REWORK VALVE INTERNALS
X-21	RCIC-V-76	202	12.4	REWORK VALVE INTERNALS
X-64	RCIC-V-28	799	167.5	REWORK VALVE INTERNALS
X-73E	PI-EFC-X73E	282	0.1	REPLACE VALVE
X-73F	PSR-V-X73/2	165.1	133	REWORK VALVE INTERNALS
X-77Ac	PSR-V-X77A/1	244	67.8	REWORK VALVE INTERNALS
X-89B	CIA-V-31A	279	33.5	REWORK VALVE INTERNALS
X-102	CAC-V-4	2,250	433.3	REWORK VALVE INTERNALS
X-117	RHR-V-73A	432	168	REWORK VALVE INTERNALS

Table 7. 1994 Outage - Isolation Valves Repaired/Adjusted

3.1 Main Steam Isolation Valves (MSIV's)

The as-found leak rates for the MSIV's are shown in Table 8 below. These valves are tested at 25 psig in accordance with Plant Technical Specifications and are not included in the sum of Type B and C testing. However, these isolation boundaries are subject to the Type A test and as such, their leak rates are reflected in the total Type A results. The allowable leak rate per Technical Specifications is 5,427 sccm per valve.

Penetration	As-Found Leakage Rate (SCCM)		
	1992	1993	1994
X-18A	1,568	3,903	3,291
X-18B	0	344	500
X-18C	485	656	1,594
X-18D	5,172	344	3,251

Table 8. As-Found LLRT Results for MSIV's

4.0 TYPE A TEST

The as-left Type A test results were corrected to include the minimum pathway leak rate differential for Type B and C containment isolation boundaries which were repaired or otherwise adjusted during the refueling outage just prior to the 1994 PCILRT. This corrected value is referred to as the As-Found Type A leak rate. The containment boundaries which were repaired or adjusted during the 1994 outage and their as-found and as-left minimum pathway leak rates are listed in Table 9.

The total adjustment for repaired or adjusted Type B and C penetrations from Table 7 was 6,691.8 sccm (0.028 wt%/day). Adding this figure to the as-left Type A leak rate of 0.3016 wt%/day, yields a total As-Found Type A leak rate of 0.3296 wt%/day. This does not exceed the maximum allowable leakage rate, L_a , of 0.5 wt%/day (Ref.1) or the As-Found acceptance criteria set forth in NRC I.E., Information Notice 85-71 of 0.75 L_a (0.375 wt%/day).

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Pen #	Valve No./ Description	As-Found (SCCM)	As-Left (SCCM)	Penalties (SCCM)
X-000	DRYWELL HEAD	15.4	4.5	11
X-53	CSP-V-1,-2	2711	22.5	2688.5
X-66	CSP-V-3,-4	4023	91	3932
X-67	CEP-V-3A,-4A,-3B,-4B	725	92	-633
X-101D	ELECT. PENETRATION	31.98	0.0	31.98
X-105B	ELECT. PENETRATION	38.95	0.0	38.95
X-47	RHR-FCV-64A	667	750	-82.5
X-63	LPCS-RV-18	1.3	0.0	1.3
X-11A	RHR-V-16A,-17A	10.31	16.36	-6.05
X-11B	RHR-V-16B,-17B	4.65	23.65	-19.0
X-14	RWCU-V-1,-4	8.9	3.75	5.15
X-17A	RFW-V-65A,-65B	1	43.2	-42
X-17B	RWCU-V-40			
X-21	RCIC-V-63,-64,-8,-76	101	6.2	95
X-22	MS-V-16,-19	3	1	2
X-25B	RHR-V-27B	2.5	31.3	-28.8
X-43B	RRC-V-16B	0.46	8.5	-8.04
X-46	RCC-V-40,-21	663	160	503
X-77Ac	PSR-V-X77A/1	106	68	38
X-89B	CIA-V-30A	92	20	72
X-117	RHR-V-134A RHR-V-73A	552	355.7	196.3
X-118	RHR-V-134B	7.8	20.6	-12.8
X-119	CSP-V-9,-10	108	199.2	-91.2
		TOTAL		6691.8

Table 9. 1994 Minimum Pathway Leak Rates for As-Found Type A Adjustment

5.0 TYPE B & C CONTAINMENT PENETRATION TEST SCHEDULE

On April 29, 1987, the NRC granted an exemption to a provision of Appendix J to WNP-2 (issued by the NRC with Amendment No.41 to Facility Operating License NPF-2). this exemption allowed containment isolation boundaries to be tested at a frequency of every 24 months rather than every refueling outage as required by Appendix J (Ref. 7).

Certain conditions were agreed upon between the NRC and WNP-2 Plant Staff regarding the exceptions to the 24 month duration between leak rate tests. Of greatest significance is the requirement to establish leakage limits for each containment barrier. Barriers which exceed this leakage limit are required to be retested during the next refueling outage.

One of the conditions of the granted exemption is that the reporting requirements of Appendix J be augmented to include the information associated with the unique aspects of the WNP-2 Type B & C testing program. In particular, a tabulation of leakage limits established for each barrier is required. This tabulation must also indicate those barriers which were tested during the 1994 outage, those which exceeded their leakage limits and must be retested during the 1995 outage, and those penetrations/valves not tested in 1994 and thus being scheduled for testing during the 1995 refueling outage.

The information required under the conditions of the granted exemption to Appendix J is presented in Table 10.

TABLE 10
CONTAINMENT PENETRATION SCHEDULE FOR TYPE B & C TESTS

Page 1 of 5

PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	YES	TESTED IN 1994			TEST IN 1995	NOTES
					NO	PASSED	FAILED		
X-3	X-3-1	CEP-V-1A,1B,2A,2B	2125	X		X			
X-4	X-4-4	RCIC-V-68,-40	1475	X		X			
X-5	X-5-4	RCC-V-5,-104	1475	X		X			
X-11A	X-11A-1	RHR-V-17A,-16A	1415	X		X			
X-11B	X-11B-1	RHR-V-16B,-17B	1415	X		X			
X-13	X-13-1	SLC-V-7	221	X					
X-13	X-13-2	SLC-V-4A,-4B	221	X		X		X	
X-14	X-14-1	RWCU-V-1,-4	885	X		X			
X-17A	X-17A-1	RFW-V-10A	2125	X		X		X	4
X-17A	X-17A-2	RFW-V-65B,-65A, RWCU-V-40	2125	X			X	X	
X-17A	X-17A-4	RFW-V-32A	2125	X		X		X	4
X-17B	X-17B-1	RFW-V-10B	2125	X			X	X	4
X-17B	X-17B-2	RFW-V-32B	2125	X		X		X	4
X-21	X-21-1	RCIC-V-64,-63,-76,-8	1475	X		X			
X-22	X-22-1	MS-V-16,-19	442	X		X			
X-23	X-23-1	EDR-V-20	442	X		X			
X-23	X-23-2	EDR-V-19	442	X		X			
X-24	X-24-1	FDR-V-4	442	X		X			
X-24	X-24-2	FDR-V-3	442	X		X			
X-25A	X-25A-1	RHR-V-27A	885	X		X			
X-25B	X-25B-3	RHR-V-27B	885	X		X			
X-26	X-26-1	RHR-FCV-64C	442	X		X			
X-26	X-26-3	RHR-V-21	1595	X		X			
X-27A	X-27A-2	TIP-V-1	50	X		X			
X-27B	X-27B-2	TIP-V-2	50	X		X			
X-27C	X-27C-2	TIP-V-3	50	X		X			
X-27D	X-27D-2	TIP-V-4	50	X		X			
X-27E	X-27E-2	TIP-V-5	50	X		X			
X-27F	X-27F-2	TIP-V-15 AND THREADED UNION	148	X		X			
X-27F	X-27F-3	TIP-V-6	74	X		X			
X-29a/c	X-29ac-1	PI-VX-257	148	X		X			
X-29a/c	X-29ac-2	PI-VX-256	148	X		X			
X-42d	X-42d-1	PI-VX-42d, PI-VX-216	148	X		X			
X-43A	X-43A-1	RRC-V-13A	110	X		X			
X-43A	X-43A-2	RRC-V-16A	110	X		X			

TABLE 10
CONTAINMENT PENETRATION SCHEDULE FOR TYPE B & C TESTS

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PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	YES	TESTED IN 1994			TEST IN 1995	NOTES
					NO	PASSED	FAILED		
X-43B	X-43B-1	RRC-V-16B	110	X		X			
X-43B	X-43B-3	RRC-V-13B	110	X		X			
X-46	X-46-1	RCC-V-40,-21	1475	X		X			
X-47	X-47-3	RHR-FCV-64A	442	X		X			
X-47	X-47-6	RHR-V-121,-120	885	X		X			
X-47	X-47-9	RHR-V-24A,-11A	1595	X		X			
X-48	X-48-4	RHR-V-11B, -24B	1595	X		X			
X-48	X-48-5	RHR-FCV-64B	442	X		X			
X-49	X-49-1	HPCS-V-23	1062	X		X			
X-49	X-49-3	HPCS-V-12	590	X		X			
X-53	X-53-1	CSP-V-96	148	X		X			
X-53	X-53-2	CSP-V-97	148	X		X			
X-53	X-53-5	PPM 7.4.6.1.8.3 - CSP-V-1,-2	5660	X		X			1
X-54Aa	X-54Aa-1	RCIC-V-184, -740	148	X		X			
X-54Bf	X-54Bf-1	PI-VX-54Bf, PI-VX-218	148	X		X			
X-56	X-56-1	CIA-V-21	110	X		X			
X-56	X-56-3	CIA-V-20	110	X		X			
X-61f	X-61f-1	PI-VX-219, PI-VX-61f	148	X		X			
X-62f	X-62f-1	PI-VX-62f, PI-VX-220	148	X		X			
X-63	X-63-1	LPCS-V-12	1062	X		X			
X-63	X-63-4	LPCS-FCV-11	442	X		X			
X-64	X-64-1	RCIC-V-69, -28	221	X			X	X	
X-65	X-65-1	RCIC-V-19	295	X		X			
X-66	X-66-1	CSP-V-98	148	X		X			
X-66	X-66-2	CSP-V-93	148	X		X			
X-66	X-66-3	CSP-V-5, -7	2124	X		X			
X-66	X-66-4	CSP-V-3,-4	2124	X		X			
X-67	X-67-1	CSP-V-6, -8	2124	X		X			
X-67		PPM 7.4.6.1.8.2 - CEP-V-3A,3B,4A,4B	5660	X		X			1
X-69c	X-69c-1	PI-VX-69c, PI-VX-221	148	X		X			
X-72f	X-72f-1	PI-VX-253	148	X		X			
X-72f	X-72f-2	PI-EFC-X72f / PI-V-X72f/1	148	X			X	X	
X-73e	X-73e-1	PI-VX-259	148	X		X			
X-73e	X-73e-2	PI-EFC-X-73e / PI-V-X73e/1	148	X			X	X	

TABLE 10
CONTAINMENT PENETRATION SCHEDULE FOR TYPE B & C TESTS

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PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	YES	TESTED IN 1994			TEST IN 1995	NOTES
					NO	PASSED	FAILED		
X-73f	X-73f-1	PSR-V-X73-1	148	X		X			
X-73f	X-73f-2	PSR-V-X73-2	148	X			X	X	
X-77Aa	X-77Aa-1	RRC-V-20	148	X		X			
X-77Aa	X-77Aa-2	RRC-V-19	148	X		X			
X-77Ac	X-77Ac-1	PSR-V-X77A-1	148	X			X	X	
X-77Ac	X-77Ac-2	PSR-V-X77A-2	148	X		X			
X-77Ad	X-77Ad-1	PSR-V-X77A-3	148	X		X			
X-77Ad	X-77Ad-2	PSR-V-X77A-4	148	X		X			
X-78d	X-78d-1	LPCS-V-66, -67	148	X		X			
X-78e	X-78e-1	HPCS-V-65, -68	148	X		X			
X-80b	X-80b-1	PSR-V-X80-1	148	X		X			
X-80b	X-80b-2	PSR-V-X80-2	148	X		X			
X-82d	X-82d-1	PSR-V-X82-1	148	X		X			
X-82d	X-82d-2	PSR-V-X82-2	148	X		X			
X-82e	X-82e-1	CAS-VX-82e, CAS-V-730	148	X		X			
X-82f	X-82f-1	PSR-V-X82-7	148	X		X			
X-82f	X-82f-4	PSR-V-X82-8	148	X		X			
X-83a	X-83a-1	PSR-V-X83-1	148	X		X			
X-83a	X-83a-4	PSR-V-X83-2	148	X		X			
X-84f	X-84f-1	PSR-V-X84-1	148	X		X			
X-84f	X-84f-4	PSR-V-X84-2	148	X		X			
X-85a/c	X-85ac-1	PI-VX-251	148	X		X			
X-85a/c	X-85ac-2	PI-VX-250	148	X		X			
X-88	X-88-1	PSR-V-X88-1	148	X		X			
X-88	X-88-4	PSR-V-X88-2	148	X		X			
X-89B	X-89B-1	CIA-V-30A	74	X			X	X	
X-89B	X-89B-2	CIA-V-31A	74	X			X	X	
X-91	X-91-1	CIA-V-30B	74	X		X			
X-91	X-91-3	CIA-V-31B	74	X		X			
X-92	X-92-1	DW-V-156,-157	295	X		X			
X-93	X-93-1	SA-V-109 AND PIPE CAP	295	X		X			
X-94	X-94-1	MWR-V-124	110	X		X			
X-94	X-94-2	X-94 PIPE CAP	0	X		X			
X-95	X-95-1	MWR-V-125	110	X		X			
X-95	X-95-2	X-95 PIPE CAP	0	X		X			

TABLE 10
CONTAINMENT PENETRATION SCHEDULE FOR TYPE B & C TESTS

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PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	TESTED IN 1994				TEST IN 1995	NOTES
				YES	NO	PASSED	FAILED		
X-96	X-96-1	CAC-V-2, CAC-FCV-2A	590	X		X			
X-97	X-97-1	CAC-V-15, CAC-FCV-1B	590	X			X	X	
X-98	X-98-1	CAC-V-11, CAC-FCV-2B	590	X		X			
X-99	X-99-1	CAC-V-6, CAC-FCV-1A	590	X		X			
X-101	X-101-1	FPC-V-156,-149	885	X		X			
X-102	X-102-1	CAC-V-4, CAC-FCV-4A	590	X			X	X	
X-103	X-103-1	CAC-V-13, CAC-FCV-4B	590	X		X			
X-104	X-104-1	CAC-V-17, CAC-FCV-3B	590	X		X			
X-105	X-105-1	CAC-V-8, CAC-FCV-3A	590	X		X			
X-117	X-117-1	RHR-V-124A, -124B	221	X		X			
X-117	X-117-2	RHR-V-134A	295	X		X			
X-117	X-117-3	RHR-V-73A	295	X			X	X	
X-118	X-118-1	RHR-V-125A, -125B	221	X		X			
X-118	X-118-2	RHR-V-134B	295	X		X			
X-118	X-118-3	RHR-V-73B	295	X		X			
X-119	X-119-1	CSP-V-9, -10	2124	X		X			

TYPE B TESTS

PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	TESTED IN 1994				TEST IN 1995	NOTES
				YES	NO	PASSED	FAILED		
BX-000		DRYWELL HEAD	50	X		X			3
BX-1A		INSPECTION PORT	50	X		X			
BX-1B		INSPECTION PORT	50	X		X			
BX-1C		INSPECTION PORT	50	X		X			
BX-1D		INSPECTION PORT	50	X		X			
BX-1E		INSPECTION PORT	50	X		X			
BX-1F		INSPECTION PORT	50	X		X			
BX-1G		INSPECTION PORT	50	X		X			
BX-1H		INSPECTION PORT	50	X		X			
BX-15		EQUIPMENT HATCH	50	X		X			3
BX-16		PERSONNEL AIRLOCK - PPM 7.4.6.1.3.2	5664	X		X			2
BX-27A	BX-27A-1	TIP DRIVE FLANGE	50	X		X			
BX-27B	BX-27B-1	TIP DRIVE FLANGE	50	X		X			
BX-27C	BX-27C-1	TIP DRIVE FLANGE	50	X		X			
BX-27D	BX-27D-1	TIP DRIVE FLANGE	50	X		X			
BX-27E	BX-27E-1	TIP DRIVE FLANGE	50	X		X			
BX-27F	BX-27F-1	TIP PURGE FLANGE	50	X		X			
BX-28		CRD REMOVAL HATCH	50	X		X			
BX-51		SUPPRESSION CHAMBER HATCH	50	X		X			3
BX-100A		NEUTRON MONITORING	50	X		X			
BX-100B		NEUTRON MONITORING	50	X		X			
BX-100C		NEUTRON MONITORING	50	X		X			

TABLE 10
CONTAINMENT PENETRATION SCHEDULE FOR TYPE B & C TESTS

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PEN #	TEST ID #	DESCRIPTION	LEAKLIMIT	TESTED IN 1994				TEST IN 1995	NOTES
				YES	NO	PASSED	FAILED		
BX-100D		NEUTRON MONITORING	50	X		X			
BX-101A		CONTROL ROD POSITION INDICATOR	50	X		X			
BX-101B		THERMOCOUPLE AND RTD	50	X		X			
BX-101C		THERMOCOUPLE AND RTD	50	X		X			
BX-101D		THERMOCOUPLE AND RTD	50	X		X			
BX-102A		THERMOCOUPLE AND RTD	50	X		X			
BX-102B		THERMOCOUPLE AND RTD	50	X		X			
BX-103A		MEDIUM VOLTAGE POWER	50	X		X			
BX-103B		MEDIUM VOLTAGE POWER	50	X		X			
BX-103C		MEDIUM VOLTAGE POWER	50	X		X			
BX-103D		MEDIUM VOLTAGE POWER	50	X		X			
BX-104A		LOW VOLTAGE POWER	50	X		X			
BX-104B		LOW VOLTAGE POWER	50	X		X			
BX-104C		LOW VOLTAGE POWER	50	X		X			
BX-104D		LOW VOLTAGE POWER	50	X		X			
BX-105A		CONTROL AND INDICATION	50	X		X			
BX-105B		CONTROL AND INDICATION	50	X		X			
BX-105C		CONTROL AND INDICATION	50	X		X			
BX-105D		CONTROL AND INDICATION	50	X		X			
BX-106C		WIDE RANGE NEUTRON MONITORING	50	X		X			
BX-106D		WIDE RANGE NEUTRON MONITORING	50	X		X			
BX-107A		LOW VOLTAGE PWR. AND CTL. IND.	50	X		X			
BX-107B		LOW VOLTAGE PWR. AND CTL. IND.	50	X		X			
BX-26	BX26RV-1	RHR-RV-25C DISCHARGE FLANGE	50	X		X			
BX-26	BX26RV-2	RHR-RV-88C DISCHARGE FLANGE	50	X		X			
BX-47	BX47RV-1	RHR-RV-1A DISCHARGE FLANGE	50	X		X			
BX-47	BX47RV-2	RHR-RV-25A DISCHARGE FLANGE	50	X		X			
BX-47	BX47RV-3	RHR-RV-88A DISCHARGE FLANGE	50	X		X			
BX-48	BX48RV-1	RHR-RV-1B DISCHARGE FLANGE	50	X		X			
BX-48	BX48RV-2	RHR-RV-5 DISCHARGE FLANGE	50	X		X			
BX-48	BX48RV-3	RHR-RV-25B DISCHARGE FLANGE	50	X		X			
BX-48	BX48RV-4	RHR-RV-88B DISCHARGE FLANGE	50	X		X			
BX-48	BX48RV-5	RHR-RV-30 DISCHARGE FLANGE	50	X		X			
BX-49	BX49RV-1	HPCS-RV-14 DISCHARGE FLANGE	50	X		X			
BX-49	BX49RV-2	HPCS-RV-35 DISCHARGE FLANGE	50	X		X			
BX-63	BX63RV-1	LPCS-RV-18 DISCHARGE FLANGE	50	X		X			
BX-63	BX63RV-2	LPCS-RV-31 DISCHARGE FLANGE	50	X		X			

- NOTES:**
1. Containment Purge butterfly valves; tested every 6 months per Plant Technical Specifications. Leakage limit defined by Technical Spec.'s
 2. Airlock tested every 6 months per Plant Technical Specifications
Leakage limit defined by Technical Specifications
 3. Component will be leak tested if opened during the 1995 outage
 4. Feedwater check valve soft seat. Tested every refueling outage per conditions of granted exemption.