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SHIFFER,J.D. Pacific Gas & Electric Co.
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Pacific Gas and Electric Company

77 Beale Street
San Francisco, CA 94106
415/973-4684
TWX 910-372-6587

James D. Shiffer
Senior Vice President and
General Manager
Nuclear Power Generation

July 2, 1990

PG&E Letter No. DCL-90-168

U.S. Nuclear Regulatory Commission
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Re: Docket No. 50-323, OL-DPR-82
Diablo Canyon Unit 2
Reactor Containment Building Integrated Leak Rate Test

Gentlemen:

Pursuant to the requirements of 10 CFR 50, Appendix J, and Diablo Canyon Power Plant (DCPP) Technical Specification 4.6.1.2.a, enclosed is a report of the DCPP Unit 2 reactor containment building Integrated Leak Rate Test (ILRT). The test was conducted in April 1990 during the DCPP Unit 2 third refueling outage. The test verified the leak-tight integrity of the containment.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,

J. D. Shiffer

cc: J. B. Martin
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Diablo Distribution

Enclosure

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ENCLOSURE

PACIFIC GAS AND ELECTRIC COMPANY
DIABLO CANYON POWER PLANT UNIT 2

# REACTOR CONTAINMENT BUILDING INTEGRATED LEAKAGE RATE TEST

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## 1.0 SUMMARY

This report describes the periodic Containment Integrated Leakage Rate Test (CILRT) performed by Pacific Gas and Electric Company on Unit 2 of the Diablo Canyon Power Plant in April 1990.

The CILRT was performed to verify containment integrity as required by the Technical Specifications of Operating License DPR-82.

A 24-hour CILRT was successfully performed from 0430, April 9 to 0430, April 10, 1990. The CILRT was followed by a successful verification test to confirm satisfactory performance of CILRT instrumentation. In accordance with ANSI/ANS 56.8-1987 the Absolute Method of leakage rate testing was used. Leakage rates were calculated by both the Total Time and the Mass Point methods. Results for the Total Time method are reported and those for the Mass Point method are included for comparison. Penalties for penetrations in other than post accident alignment and for differences between as-found/as-left leakage were less than 0.001 wt.%/day. Accordingly, no adjustments were made to the test data as reported. A summary of test results expressed in weight percent per day follows:

| | Test Results | | Acceptance Criteria |
|---|---|---|---|
| | Total Time | Mass Point | |
| CILRT Lam | 0.035 | 0.034 | < 0.075 |
| CILRT 95% UCL | 0.053 | 0.035 | < 0.075 |
| Verification Lam | 0.121 | 0.121 | 0.110 - 0.160 |

Remaining parts of the report are a description of the test, a chronology of events, a discussion of results, and supporting documentation. A tabular summary of plant data and test results, including a summary of Type B and Type C testing, appears in Appendix A.

## 2.0 DESCRIPTION OF TEST

The Containment Integrated Leakage Rate Test (CILRT) performed at Diablo Canyon Power Plant on Unit 2 utilized the absolute method of leakage rate testing as defined in ANSI/ANS 56.8-1987. The containment structure was pressurized to above 47 psig. Data from an array of calibrated pressure, temperature, and humidity sensors were used to calculate the containment air mass lost over time. Laboratory and field calibrations of the instrumentation verified that the requirements of ANSI 56.8-1987 were met. Dew cells and the temperature sensors (RTDs) were distributed throughout the containment as shown in Appendix B. Each instrument was assigned to monitor a specific subvolume (volume fraction) of the containment atmosphere. A survey of containment temperature and humidity conditions was performed prior to pressurization to verify the uniformity of the containment atmosphere. As required by 10 CFR 50, Appendix J, a visual inspection was performed to confirm the absence of structural defects in the interior and exterior of the containment.

A program to establish the as-found condition of the containment boundary was in effect. Penetration components requiring maintenance were identified and Type B or Type C tests, as appropriate, were performed before and following maintenance. The steam generators were inspected at shutdown in accordance with Appendix L of the CILRT test procedure. Results of this inspection and other factors influencing the as-found condition of the containment boundary are discussed in Appendix C to this report.

Type B and C leakage tests were current. The cumulative value of Type B and C leakage was 0.009 wt.%/day, well within the upper limit of 0.06 wt.%/day (0.06La) specified in the Technical Specification.

A walkdown of the containment prior to the CILRT confirmed that pressurized tanks or vessels had either been removed or vented to containment atmosphere. Pressure sources such as nitrogen and compressed air were isolated and vented outside the test boundary.

Valve lineups for containment penetrations were performed and independently verified. Closure of containment isolation valves was by their normal means of operation and without adjustment. Systems required to be drained, vented, and exposed to containment pressure in their post-accident condition were so aligned. The only test exceptions were the lines necessary for pressure and flow verification to the test instruments and Penetration 82C (VAC-2-116 and VAC-2-FCV-700) in which a plug was found following the CILRT. Local (Type C) leakage tests were performed on these lines as required and results have been added to the UCL. No repairs or adjustments were made to the containment boundary between the establishment of the test alignment and performance of the CILRT.

Test data were fed through a calibrated system to a data acquisition station. Data were recorded every 15 minutes and sent to a personal computer programmed to store, calculate, print, and plot test data and results.

## 3.0 TEST CHRONOLOGY

Immediately preceding pressurization of the containment, the dry bulb and wet bulb temperatures were measured and recorded at various accessible points throughout the containment. The results of this temperature survey showed the expected temperature gradient from bottom to top of the measured volume but generally less than one degree F variance on any given elevation. A comparison made between the survey values and values taken from the test instruments in the same general vicinity at about the same time showed less than two degrees variance and generally less than one degree difference between the two. Since the test was to be conducted with the fans off, the fans were kept off during the survey. No instruments were relocated.

Following completion of the necessary prerequisites, pressurization of the containment was started at 1833 on 7 April 1990. Oil free air which had passed through a refrigerated air dryer was the pressurizing medium. Water cooled containment fan cooling units (4) were used to further cool the pressurizing air. Although the pitch on the inlet vanes to these units had been throttled closed to compensate for the increased load anticipated from the more dense compressed air, during the test one after the other of the CFCU's had to be removed from service when their motor currents reached predetermined limits.

When containment pressure reached approximately 10 psig, checking external portions of the penetrations for leaks was started. The positioning of colored balloons on the penetration vents aided the leak check team. As containment pressure reached 30 psig, the temperature and pressure of each electrical penetration were recorded for baseline data. As pressure in the containment increased and throughout the remainder of the CILRT and verification test, no in-leakage into the electrical penetrations from the containment was observed. At a containment pressure of 48.5 psia, two of the four fan cooling units (CFCU) were removed from service after having reached their upper administrative limits for current. Shortly afterwards, the remaining two units were shut down for the same reason.

When containment pressure reached 49.3 psig, pressurizing was stopped. The pressurizing system was isolated from the containment system by means of a blind flange and the section between the flange and the outboard containment isolation valve vented. The temporary air supply, which had been rigged to hold the inboard isolation valve open during pressurization, was removed once the isolation valve was closed and the supply line capped. Cooling water to the containment fan cooling units was secured by closing all isolation valves.

Temperature stabilization was begun at 1115 on the morning of 8 April. By 1630 the acceptance criteria for temperature stabilization, as established by ANSI/ANS 56.8-1987, had been met. A look at the changes still taking place in the containment atmosphere showed the air mass was not yet stable and a decision was taken to delay start of the CILRT until the average temperature reached approximately 69 degrees F. At 0430 on 9 April, the start of the CILRT was declared. At the end of the 24 hour period, the UCL was 0.053 weight percent per day. While some of the dew cells showed less than linear performance during the early part of the test, all instruments were operable throughout the test and no data point was excluded.

The 24-hour CILRT was completed at 0430 April 10 and a verification flow equivalent to 0.1 weight percent per day (7.577 SCFM) was imposed. Flow was measured by a calibrated mass flowmeter. After four data points had fallen within the acceptance limits and the four hour duration criterion was satisfied, verification was acceptable and the verification test ended.

## 4.0 DISCUSSION

Performance of this CILRT was uneventful and the only aspect of the test which stands out is the longer than anticipated stabilization period.

When preparing for this CILRT heavy emphasis was placed on being able to pressurize with an ample supply of cool, dry air. Prior to pressurization relatively dry air was circulated into the then open containment to dilute the more moist natural atmosphere already there. Dual refrigerated air dryers gave more ample moisture removal capacity. During pressurization the containment fan cooling units (CFCU) were run. All of these efforts were aimed at shortening the stabilization period as much as possible and promoting smooth functioning of the dew cells. Seven hours into the stabilization period, although the ANSI/ANS 56.8-1987 stabilization criteria had been met, it became apparent from looking at the data that the air mass was still not sufficiently stable to provide reliable information. The upper portion of the containment atmosphere was still cooling and the lower section was warming. A decision was taken to wait until the average containment temperature approached 69.0 degrees F. It was then approximately 70 degrees F. After an additional eight hours and an average drop in the containment temperature of one-half degree F, the CILRT was started. By the end of the test the UCL had dropped to 0.053 weight percent per day and the data was stable. The conclusion is that without effective artificial mixing, the air mass in tall containments can take up to 24 hours to stabilize sufficiently before yielding accurate data.

The significant volumes of the personnel airlock, the emergency airlock, and the containment ventilation purge valves were monitored throughout the test by observing their respective pressures. The negligible increases observed confirmed the integrity of these major boundaries.

## 5.0 REFERENCES


5.1 ANSI N45.4-1972, "Leakage-Rate Testing of Containment Structures for Nuclear Reactors," American Nuclear Society.

5.2 ANSI/ANS-56.8-1987, "Containment System Leakage Testing Requirements," American Nuclear Society.

5.3 Code of Federal Regulations, Title 10, Part 50, Appendix J, "Primary Reactor Containment Leakage Testing for Water-Cooled Reactors."

5.4 Surveillance Test Procedure M-7, Rev. 9, "Containment Integrated Leakage Rate Test (ILRT), Type A," Diablo Canyon Power Plant

5.5 Diablo Canyon Power Plant Data Processing Procedure PC-1, Integrated Leakage Rate Data Reduction Program.

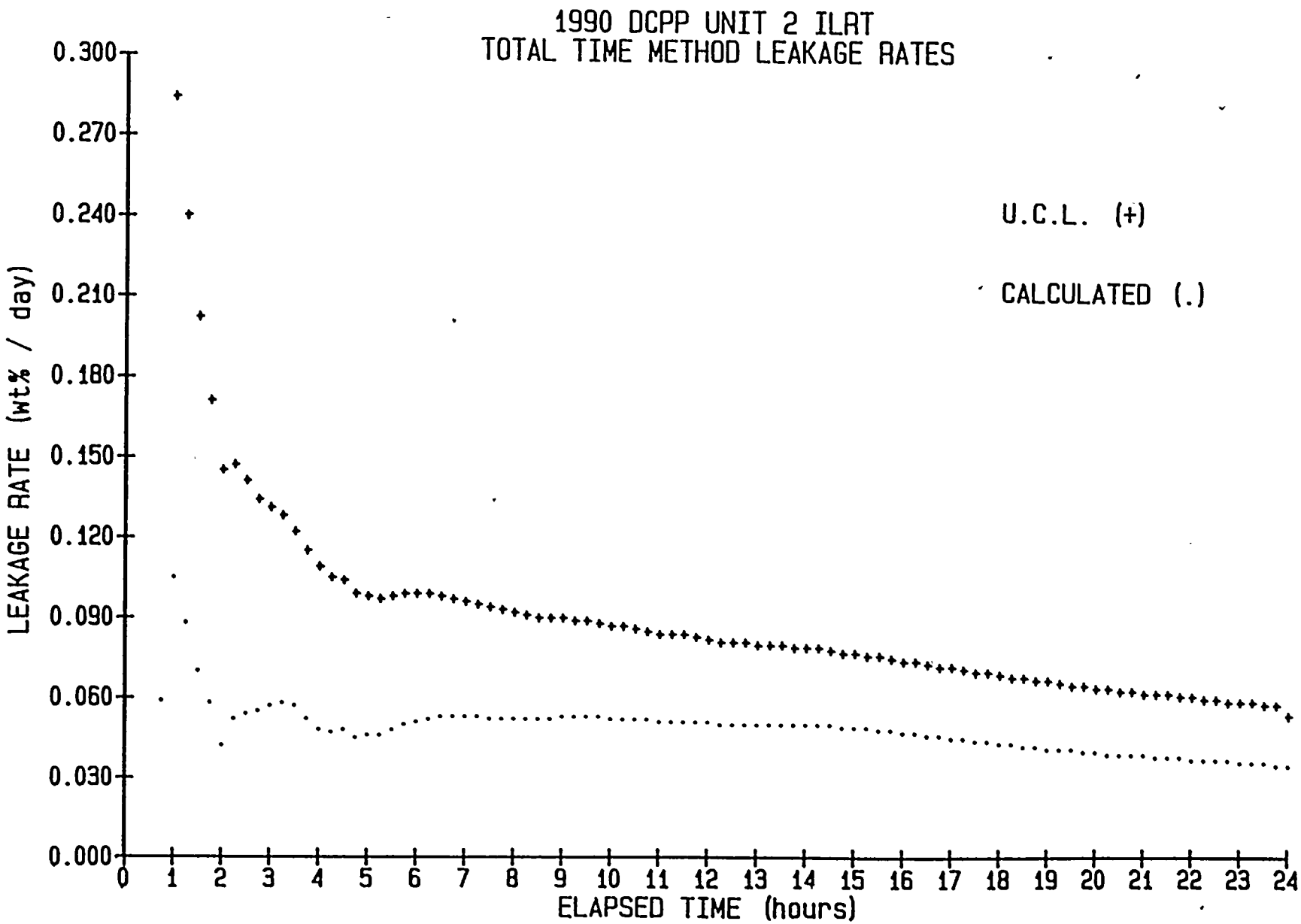
1990 DCPP UNIT 2 ILRT
TOTAL TIME METHOD LEAKAGE RATES
U.C.L. (+)
CALCULATED (.)
LEAKAGE RATE (wt% / day)
0.300
0.270
0.240
0.210
0.180
0.150
0.120
0.090
0.060
0.030
0.000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 1

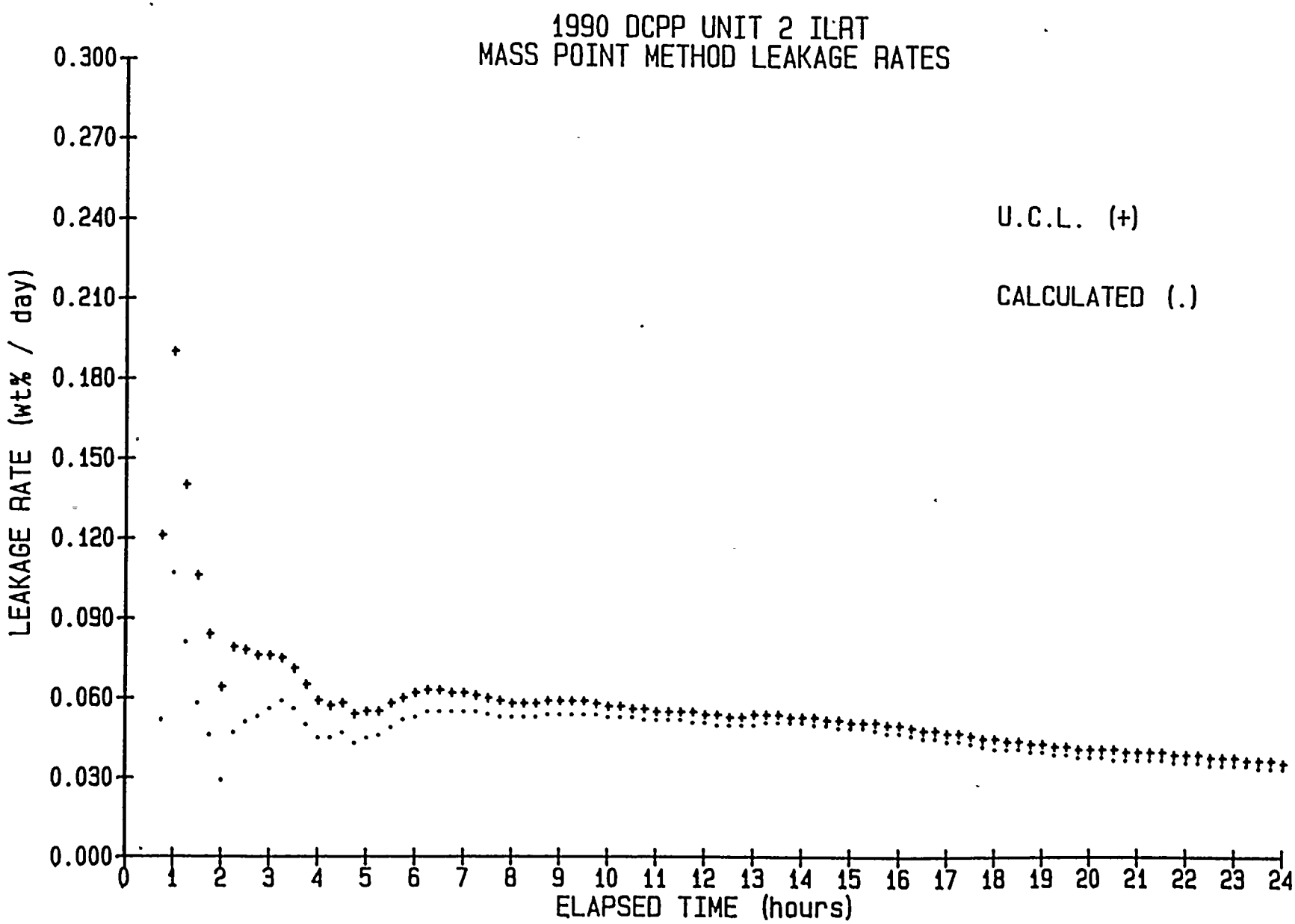
1990 DCPP UNIT 2 ILRT
MASS POINT METHOD LEAKAGE RATES
U.C.L. (+)
CALCULATED (.)
LEAKAGE RATE (wt% / day)
0.300
0.270
0.240
0.210
0.180
0.150
0.120
0.090
0.060
0.030
0.000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 2

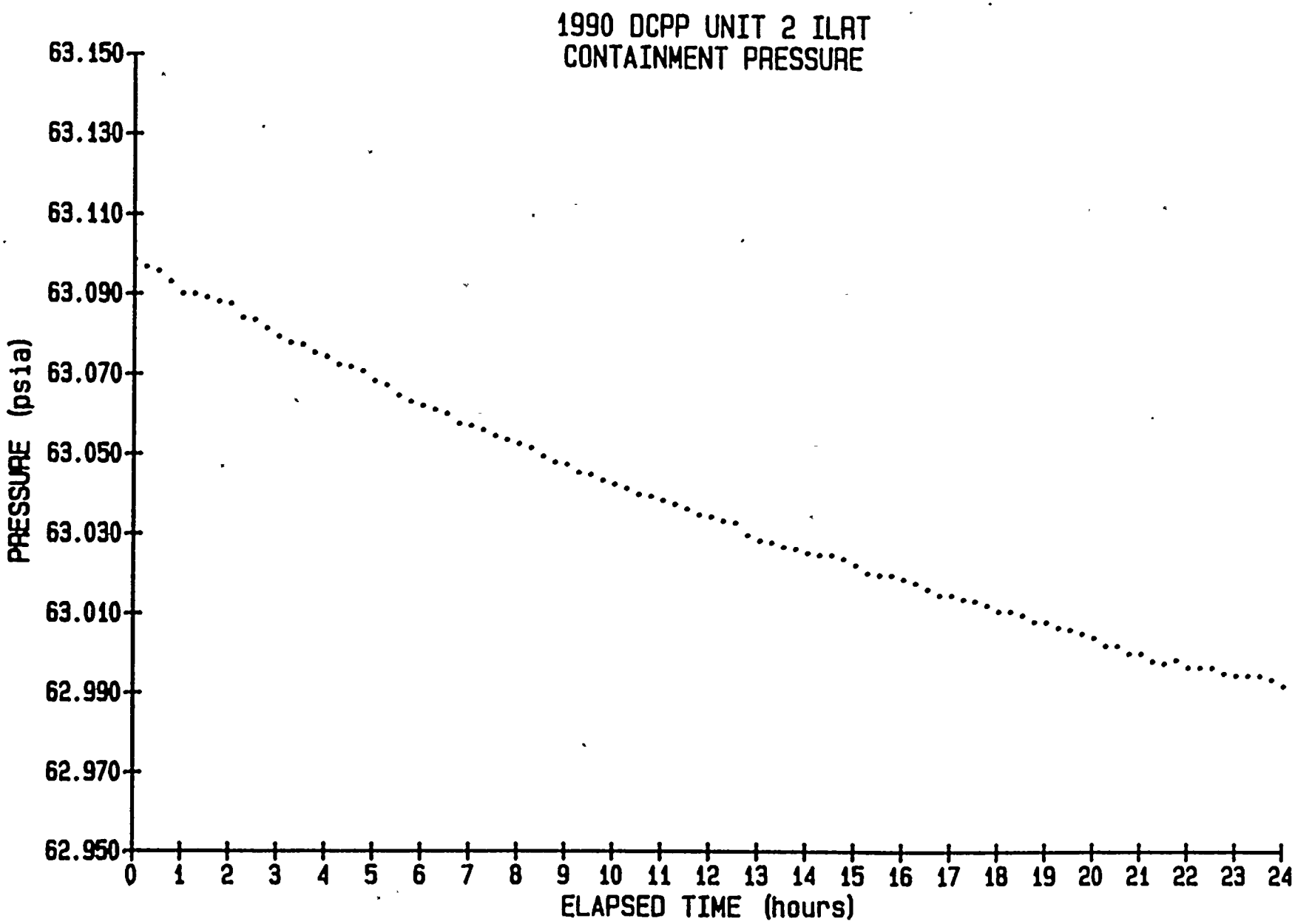
1990 DCPP UNIT 2 ILRT
CONTAINMENT PRESSURE
PRESSURE (psia)
63.150
63.130
63.110
63.090
63.070
63.050
63.030
63.010
62.990
62.970
62.950
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 3

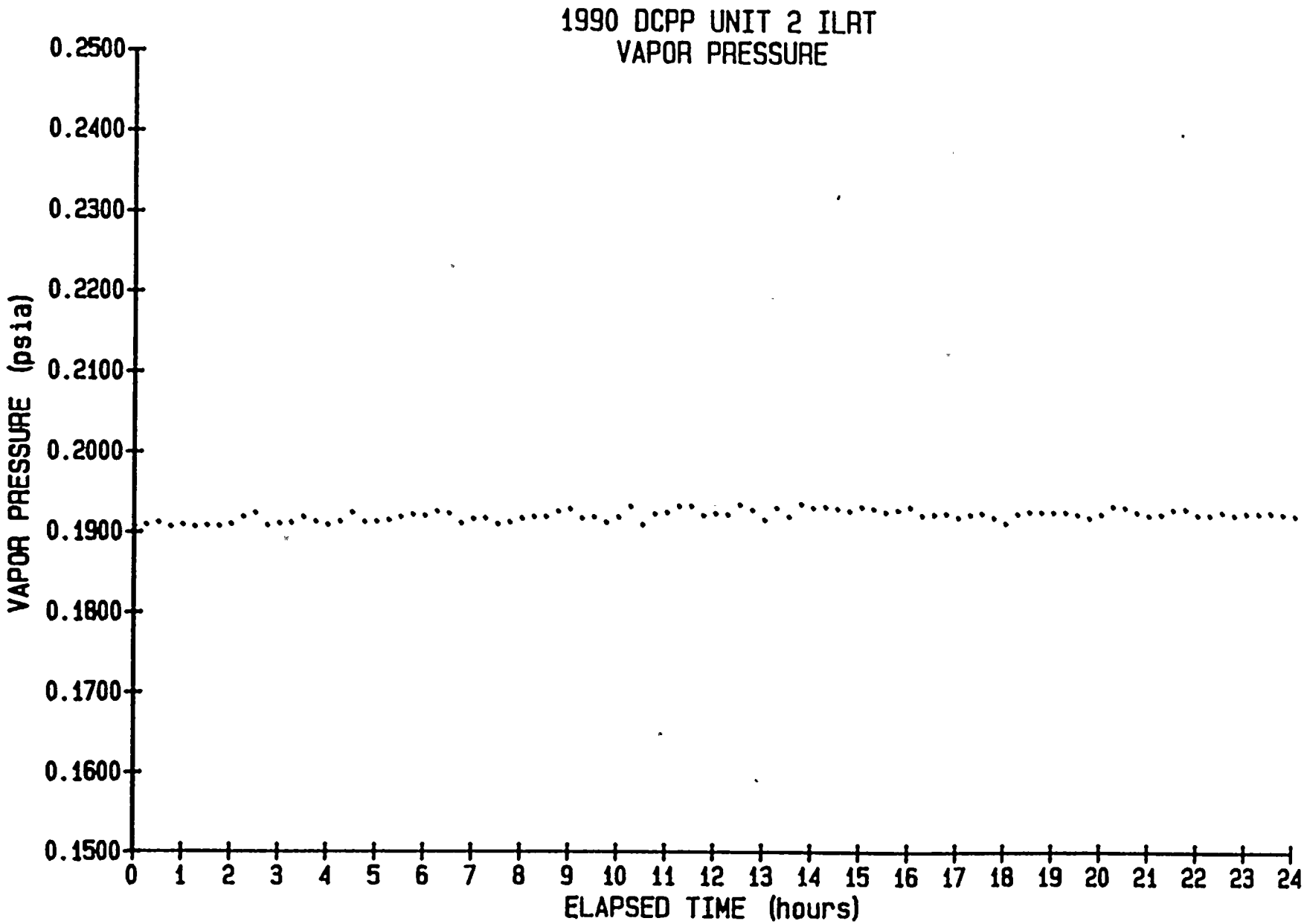
1990 DCPP UNIT 2 ILRT
VAPOR PRESSURE
VAPOR PRESSURE (psia)
0.2500
0.2400
0.2300
0.2200
0.2100
0.2000
0.1900
0.1800
0.1700
0.1600
0.1500
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 4

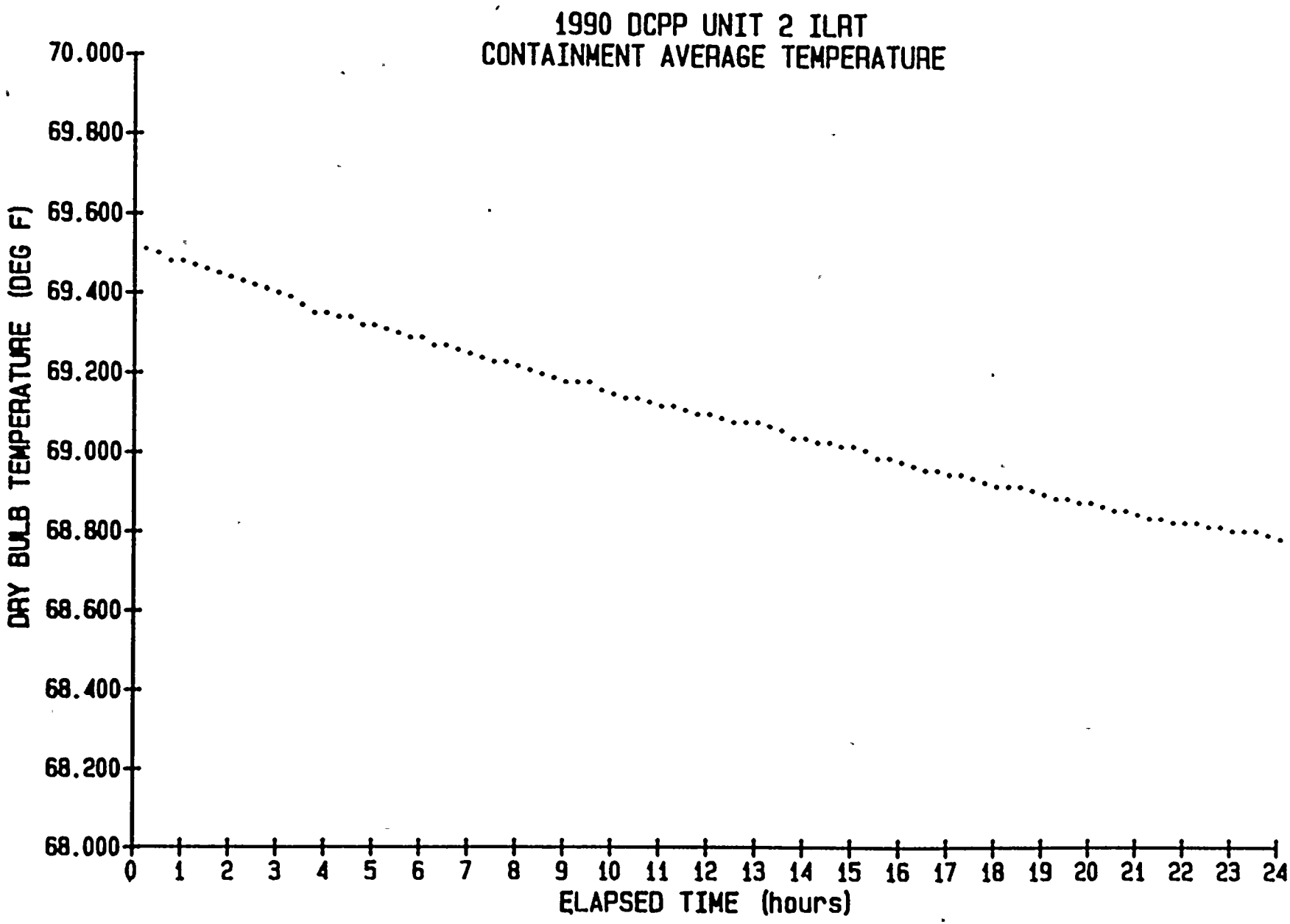
1990 DCPP UNIT 2 ILRT
CONTAINMENT AVERAGE TEMPERATURE
DRY BULB TEMPERATURE (DEG F)
70.000
69.800
69.600
69.400
69.200
69.000
68.800
68.600
68.400
68.200
68.000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 5

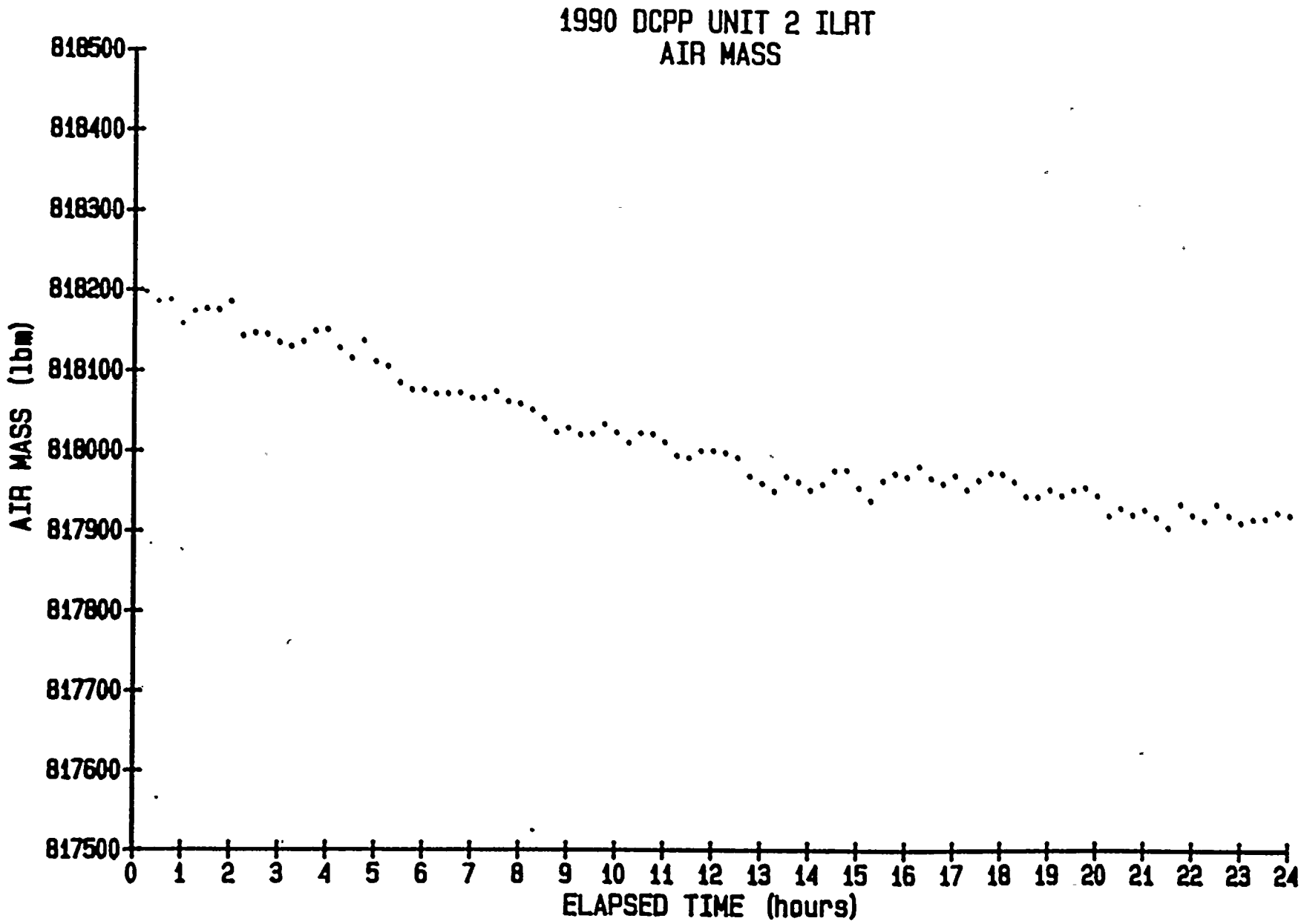
1990 DCPP UNIT 2 ILRT
AIR MASS
AIR MASS (lbm)
818500
818400
818300
818200
818100
818000
817900
817800
817700
817600
817500
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
ELAPSED TIME (hours)

FIGURE 6

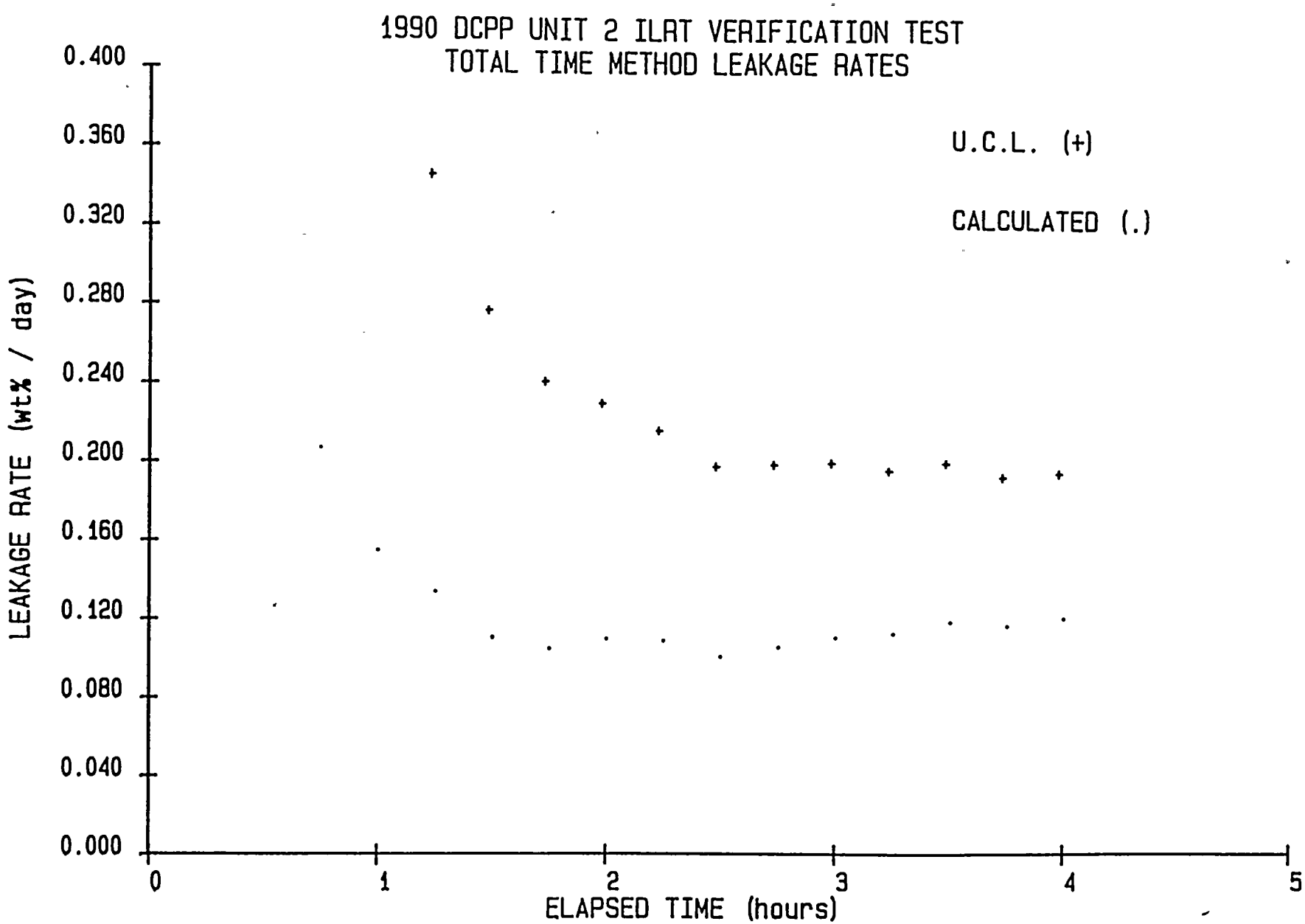
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
TOTAL TIME METHOD LEAKAGE RATES
U.C.L. (+)
CALCULATED (.)
LEAKAGE RATE (wt% / day)
0.400
0.360
0.320
0.280
0.240
0.200
0.160
0.120
0.080
0.040
0.000
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 7

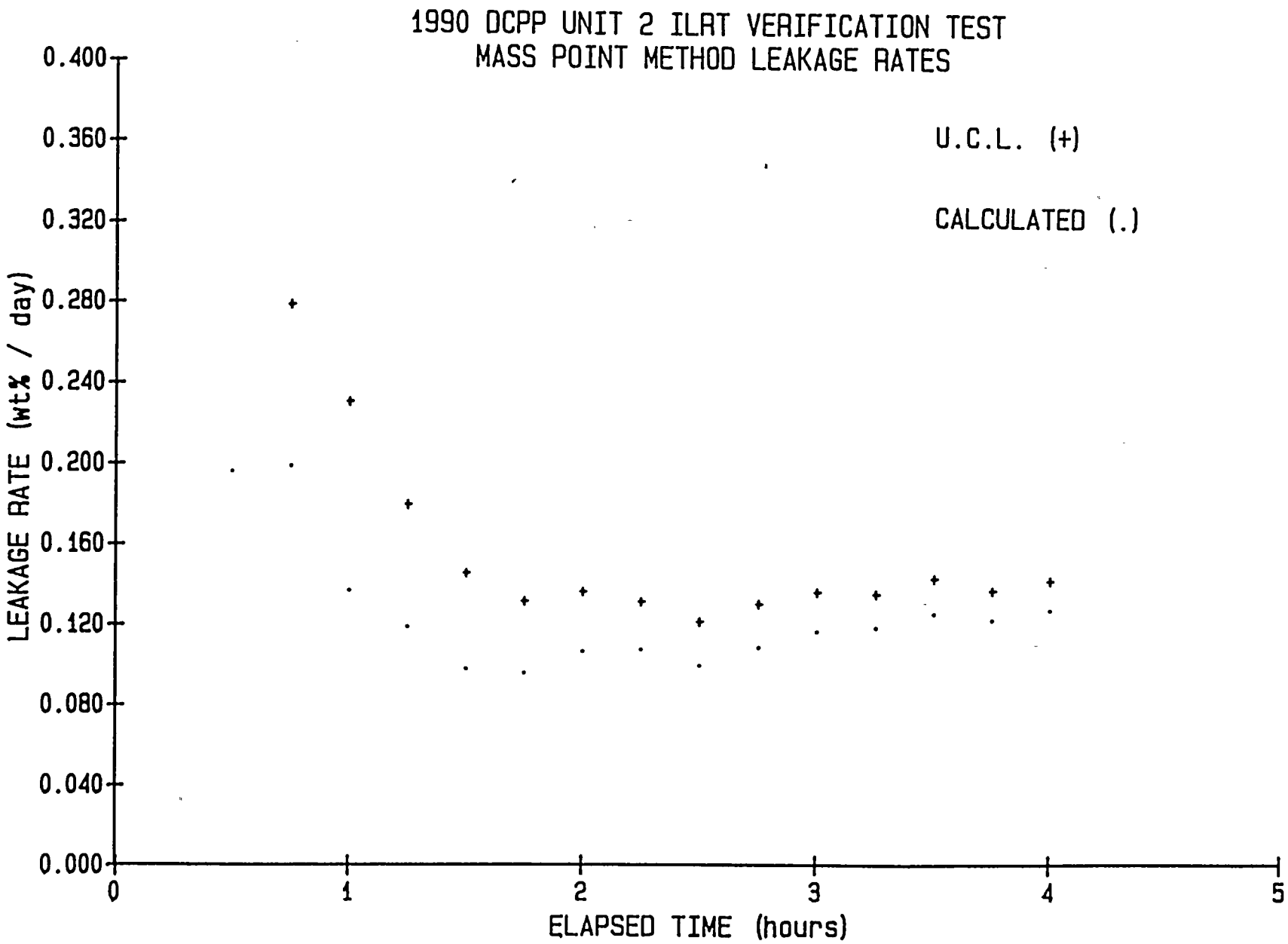
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
MASS POINT METHOD LEAKAGE RATES
U.C.L. (+)
CALCULATED (.)
LEAKAGE RATE (wt% / day)
0.400
0.360
0.320
0.280
0.240
0.200
0.160
0.120
0.080
0.040
0.000
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 8

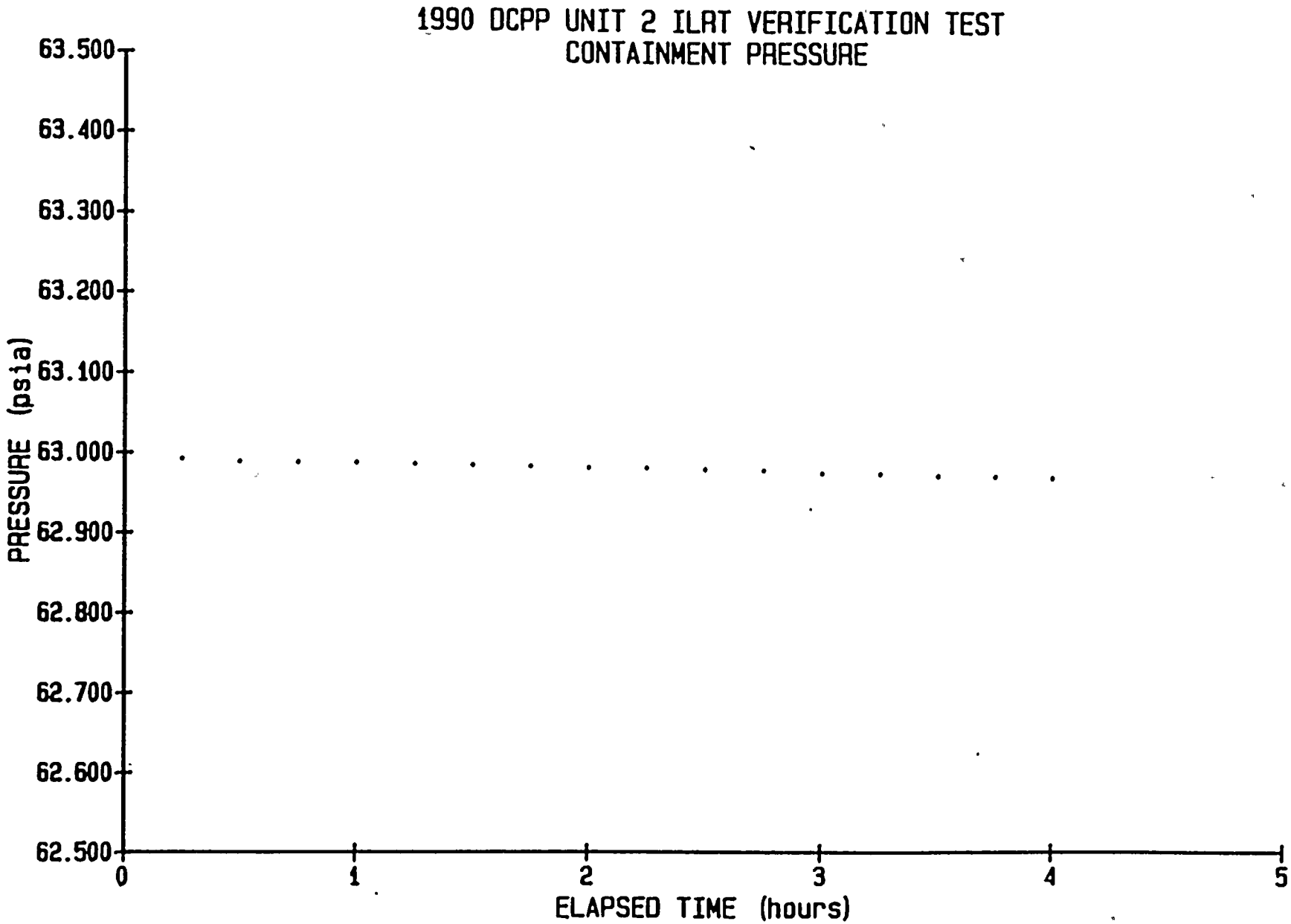
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
CONTAINMENT PRESSURE
PRESSURE (psia)
63.500
63.400
63.300
63.200
63.100
63.000
62.900
62.800
62.700
62.600
62.500
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 9

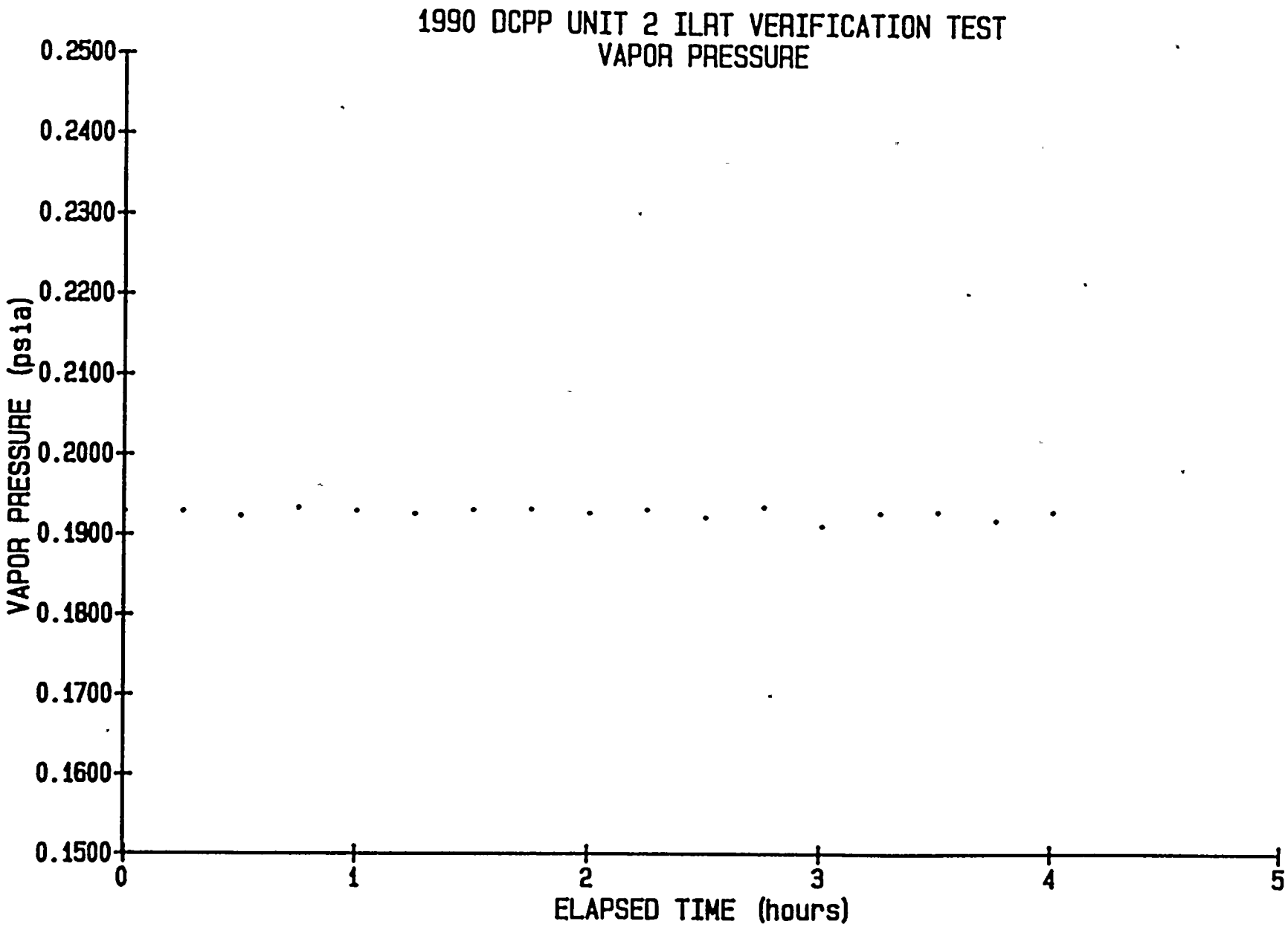
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
VAPOR PRESSURE
VAPOR PRESSURE (psia)
0.2500
0.2400
0.2300
0.2200
0.2100
0.2000
0.1900
0.1800
0.1700
0.1600
0.1500
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 10

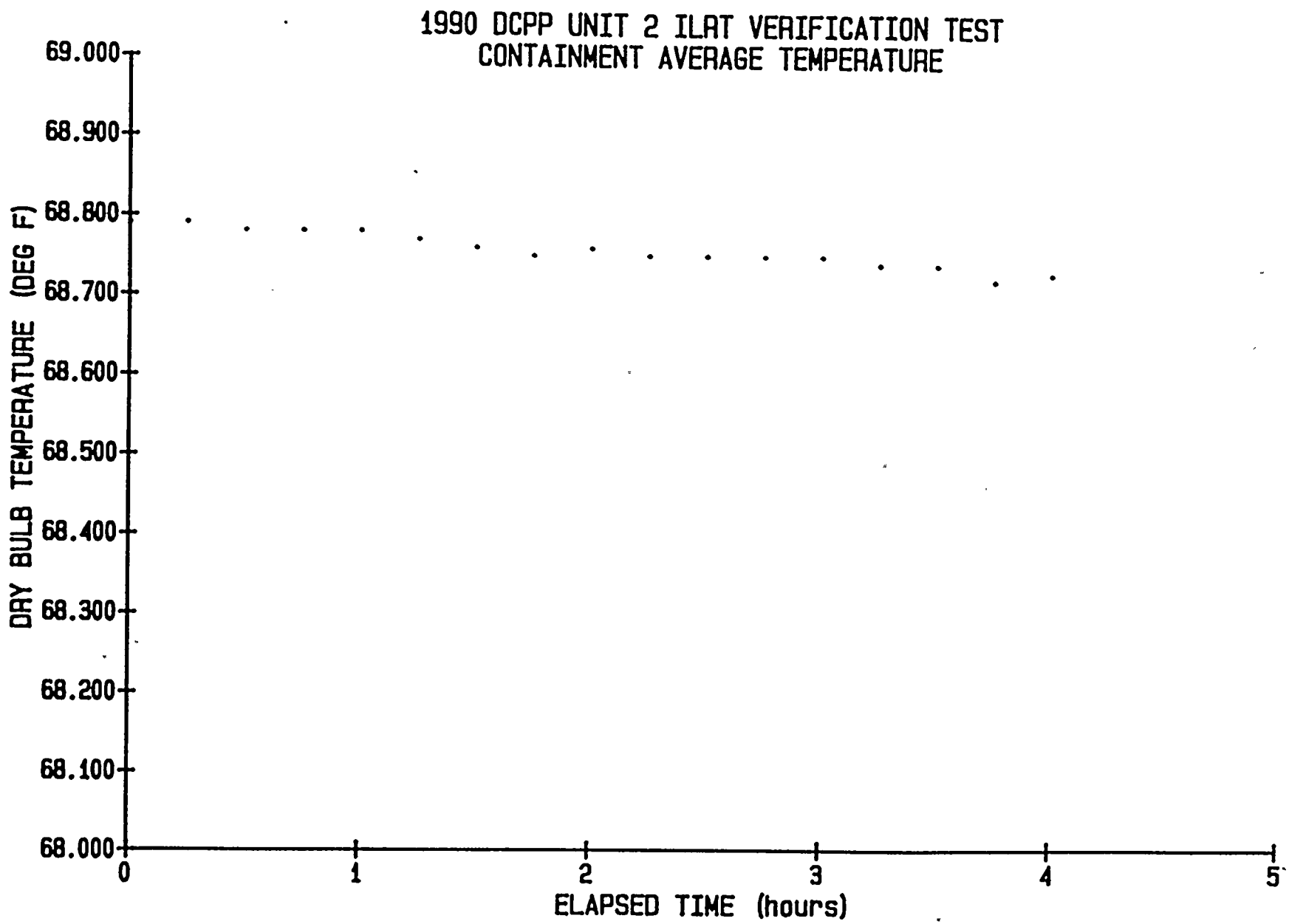
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
CONTAINMENT AVERAGE TEMPERATURE
DRY BULB TEMPERATURE (DEG F)
69.000
68.900
68.800
68.700
68.600
68.500
68.400
68.300
68.200
68.100
68.000
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 11

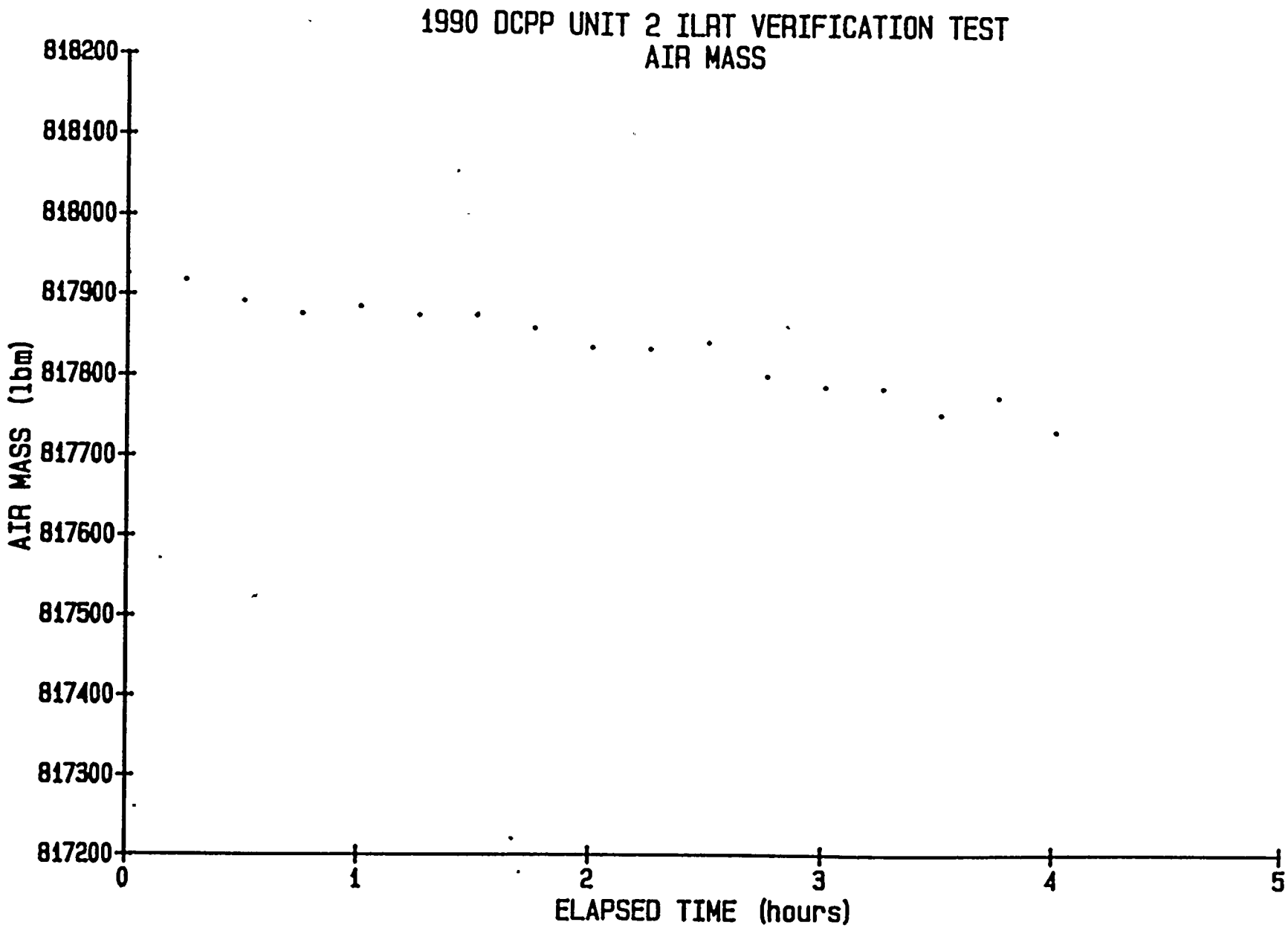
1990 DCPP UNIT 2 ILRT VERIFICATION TEST
AIR MASS
AIR MASS (lbm)
818200
818100
818000
817900
817800
817700
817600
817500
817400
817300
817200
0
1
2
3
4
5
ELAPSED TIME (hours)

FIGURE 12

# APPENDIX A

## Summary of Technical Data

## APPENDIX A
Summary of Technical Data

1. Plant Data

| | |
|---|---|
| Owner: | Pacific Gas and Electric Company |
| Plant: | Diablo Canyon Power Plant, UNIT 2 |
| Docket Number | 50-323 |
| Location: | Avila Beach, CA 93424 |
| Type of Containment | Reinforced Concrete PWR |
| Containment Volume | 2,550,000 cubic feet |
| Design Pressure | 47 psig |
| Design Temperature | 271°F |
| Peak Accident Pressure | 46.9 psig |
| Date CILRT was completed. | April 10, 1990 |

2.0 Test Equipment Data

| | |
|---|---|
| Number of RTDs | 24 |
| Type of RTDs | Rosemount 78S 100ohm Platinum |
| Accuracy | 0.1°F |
| Sensitivity | 0.01°F |
| Number of Dew Cells | 6 |
| Type of Dew Cells | EG&G 660-S2 Dew Point Sensor |
| Accuracy | 0.54°F |
| Sensitivity | 0.1°F |
| Precision Pressure Gauges | 2 |
| Type of Gauge | Mensor Quartz Bourdon Tube |
| Accuracy | 0.015% of Reading |
| Sensitivity | 0.001% of Full Scale |
| Flow Verification Meter: | Volumetrics Model FM-10 |
| Type: | Mass Flowmeter 0 -10 SCFM |
| Accuracy: | 1.0% of Full Scale |
| Sensitivity | 0.01 SCFM |
| Data Acquisition System | Volumetrics Model A-100 |
| Pressurizing Equipment | Atlas-Copco oil-free rotary compressors (10,200 total scfm) |
| Air Dryers | Arrow Model 4020 refrigeration air dryer(12,000 scfm) |

## APPENDIX A

### Summary of Technical Data

3.0 Test Results - Type A Test

| | |
|---|---|
| Test Method | Absolute |
| Data Analyzed by: | Total Time and Mass Point |
| Test Pressure | 47.0 +3 -0 |
| Technical Specification leakage | 0.1%/day |
| CILRT Acceptance Criteria | 0.075%/day |

| Integrated Leakage Rate Test Results | Weight %/day | |
|---|---|---|
| | Calculated(Lam) | 95% UCL |
| Total Time | 0.035 | 0.053 |
| Mass Point | 0.034 | 0.035 |
| Verification Test Results | | |
| Test upper limit | 0.160 | |
| Verification Lam | 0.121 | |
| Test lower limit | 0.110 | |

4.0 Local Leakage Rate Test Results

| | |
|---|---|
| Subtotal of Type B and Type C Tests: | 0.0092 wt.%/day |
| Penalty leakage for penetrations not in post-LOCA alignment: | wt.%/day |
| Penetration 80 - Test Instruments | 0.000019 |
| Penetration 82C - Plugged during ILRT | 0.000084 |
| Penalty for as-left improvement over as-found data. | 0.000479 |
| Total Penalty: | 0.000582 |

## APPENDIX A

Summary of Technical Data

5. Summary of Type B and C Leakage Test Results

| | Leakage Rate in lbs/day |
|---|---|
| Personnel Airlock | 5.907 |
| Emergency Airlock | 8.126 |
| Electrical Penetrations(total) | 0.0155 |
| Equipment Hatch Seals | 0.1716 |
| Fuel Transfer Tube Seals | 0.0585 |
| Personnel Airlock Seals | 0.9750 |
| Emergency Airlock Seals | 0.0546 |
| Containment Penetration Total | 57.8721 |
| Local Leakage Rate Total | 73.1803 (0.0092 wt.%/day) |

# APPENDIX B

## Instrument Location and Assigned Volume Fraction

## APPENDIX B

Instrument Location and Assigned Volume Fraction

RESISTANCE TEMPERATURE DETECTORS

| SENSOR NO. | ELEVATION FEET | AZIMUTH IN DEGREES | DISTANCE FROM CENTER IN FEET | ASSIGNED VOLUME FRACTION |
|---|---|---|---|---|
| 1 | 280 | 0 | 0 | 0.05151 |
| 2 | 260 | 45 | 42 | 0.05151 |
| 3 | 260 | 165 | 42 | 0.05151 |
| 4 | 260 | 285 | 42 | 0.05151 |
| 5 | 235 | 0 | 10 | 0.05151 |
| 6 | 235 | 180 | 10 | 0.05151 |
| 7 | 225 | 90 | 57 | 0.05151 |
| 8 | 225 | 270 | 57 | 0.05151 |
| 9 | 184 | 23 | 49 | 0.05151 |
| 10 | 184 | 155 | 49 | 0.05151 |
| 11 | 184 | 215 | 49 | 0.05151 |
| 12 | 184 | 325 | 49 | 0.05151 |
| 13 | 151 | 90 | 5 | 0.05151 |
| 14 | 150 | 135 | 55 | 0.05151 |
| 15 | 150 | 315 | 37 | 0.05151 |
| 16 | 120 | 90 | 40 | 0.02213 |
| 17 | 120 | 270 | 45 | 0.00153 |
| 18 | 110 | 180 | 35 | 0.03014 |
| 19 | 110 | 0 | 35 | 0.03014 |
| 20 | 130 | 135 | 45 | 0.03014 |
| 21 | 125 | 0 | 60 | 0.03521 |
| 22 | 100 | 240 | 62 | 0.03521 |
| 23 | 100 | 120 | 62 | 0.03521 |
| 24 | 74 | 270 | 20 | 0.00764 |
| | | | | 1.00000 |

DEWCELLS

| | | | | |
|---|---|---|---|---|
| DC-1 | 260 | 285 | 42 | 0.19868 |
| DC-2 | 235 | 180 | 10 | 0.19868 |
| DC-3 | 184 | 23 | 49 | 0.19868 |
| DC-4 | 150 | 250 | 37 | 0.19868 |
| DC-5 | 110 | 180 | 35 | 0.09806 |
| DC-6 | 125 | 0 | 60 | 0.10722 |
| | | | | 1.00000 |

# APPENDIX C

## Type B and C Leakage Summary

## Type B and C Leakage

This Appendix summarizes the results of the Local Leakage Rate Test (LLRT) program maintained in effect since performance of the last preceding ILRT on Unit 2 in August of 1984.

Each valve scheduled for maintenance during the refueling outage when this ILRT was performed received a premaintenance and a post-maintenance LLRT. NSS-2-9355A was the single exception. Following a premaintenance LLRT from which the results were poor because of a packing leak, the valve was entered. A successful LLRT which established the minimum pathway leakage was performed on the remaining isolation valve in the penetration.

Five valves failed to pressurize on the initial attempt. In every case a successful as-found test was performed on sufficient components in the penetration to establish the minimum pathway as-found leakage.

Total as-found Type B and C minimum pathway leakage was 28.22 lbm/day and the total as-left minimum pathway leakage was 24.43 lbm/day. Since the as-left leakage is the smaller value, there was improvement and the penalty is 0.0005 wt.%/day .

In arriving at the overall penetration leakage rates, the following evaluation was used:

1. For valves in series tested individually, the minimum pathway leakage was the lesser of the two leakage rates.

2. For valves tested individually on the same side of a penetration, the leakage rates were summed.

3. For valves tested in parallel (pressurized between the valves) across the containment boundary, minimum pathway leakage was taken as one-half of the total leakage.

4. Valves group tested in parallel on the same side of the containment boundary were treated as single valves.

After the unit was shut down and while in the hot standby condition, the steam generators were inspected for signs of leakage. All points where drips had been found on previous inspections were paid particular attention. No indications of leakage from the steam generators was found.

## APPENDIX C

Table 1
As Found Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 19 | CCW-2-585 | 189 | |
| | CCW-2-FCV-356 | 182 | 182 |
| 20 | CCW-2-FCV-363 | Note 1 | |
| | CCW-2-FCV-749 | 258 | |
| | CCW-2-581 | Note 2 | 258 |
| 21 | CCW-2-670 | 621 | |
| | CCW-2-FCV-750 | Note 2 | |
| | CCW-2-FCV-357 | 63 | 63 |
| 22 | CCW-2-695 | Note 3 | 51 |
| 23 | CCW-2-FCV-361 | 28 | 28 |
| 30 | CS-2-9011B | Note 1 | |
| | CS-2-32 | 401 | |
| | CS-2-9001B | Note 2 | 401 |
| 31 | CS-2-9011A | 754 | |
| | CS-2-31 | 106 | |
| | CS-2-9001A | Note 2 | 106 |
| 35 | CVCS-2-8149A | Note 1 | |
| | CVCS-2-8149B | Note 2 | |
| | CVCS-2-8149C | Note 2 | |
| | CVCS-2-8152 | 18 | 18 |
| 41 | CVCS-2-8368A | 19 | 19 |
| 42 | CVCS-2-8368B | 21 | 21 |
| 43 | CVCS-2-8368C | 150 | 150 |
| 44 | CVCS-2-8368D | 145 | 145 |

## APPENDIX C

Table 1
As Found Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 45 | CVCS-2-8112 | 1665 | |
| | CVCS-2-8109 | Note 2 | |
| | CVCS-2-8100 | 57 | 57 |
| 46 | LWSL-2-8787 | 60 | |
| | LWS-2-8796 | Note 2 | 30 |
| 47 | LWS-2-8767 | 50 | |
| | LWS-2-8795 | Note 2 | 25 |
| 49 | LWS-2-FCV-500 | 20 | |
| | LWS-2-FCV-501 | 87 | 20 |
| 50 | LWS-2-FCV-253 | 16 | |
| | LWS-2-FCV-254 | 18 | 16 |
| 51 | N2-2-8916 | 312 | |
| | N2-2-8880 | 72 | 72 |
| 51 | SI-2-8871 | 17 | |
| | SI-2-8883 | 24 | |
| | SI-2-8961 | Note 2 | |
| | SI-2-161 | Note 2 | 17 |
| 51 | LWS-2-FCV-255 | 15 | |
| | LWS-2-256 | 16 | 15 |
| 51 | LWS-2-257 | 15 | |
| | LWS-2-258 | 14 | 14 |
| 52 | RCS-2-8046 | 70 | |
| | RCS-2-8029 | 95 | 70 |
| 52 | RCS-2-8047 | 85 | |
| | RCS-2-8045 | 17 | 17 |
| 52 | LWS-2-60 | Note 1 | |
| | LWS-2-FCV-260 | 96 | 96 |

## APPENDIX C

Table 1
As Found Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 52 | VAC-2-FCV-235 | 18 | |
| | VAC-2-FCV-236 | 16 | 16 |
| 52 | VAC-2-FCV-237 | 17 | |
| | VAC-2-252 | 21 | 17 |
| 54 | AIR-I-2-587 | 260 | |
| | AIR-I-2-585 | 103 | |
| | AIR-I-2-FCV-584 | Note 2 | 103 |
| 56 | AIR-S-2-114 | 546 | |
| | AIR-S-2-200 | 122 | 122 |
| 57 | AIR-I-FCV-659 | 16 | |
| | AIR-1-FCV-669 | 688 | 16 |
| 59 | NSS-2-9355A | Voided by pretest repair. | |
| | NSS-2-9355B | 15 | 15 |
| 59 | NSS-2-9356A | 13 | |
| | NSS-2-9356B | 13 | 13 |
| 59 | NSS-2-9357A | 13 | |
| | NSS-2-9357B | 13 | 13 |
| 61 | VAC-2-FCV-661 | 1233 | |
| | VAC-2-FCV-660 | Note 2 | 617 |
| 62 | VAC-2-RCV-11 | 3715 | |
| | VAC-2-RCV-12 | Note 2 | 1858 |
| 63 | VAC-2-FCV-662 | 224 | |
| | VAC-2-FCV-663 | Note 2 | |
| | VAC-2-FCV-664 | Note 2 | 112 |
| 68 | VAC-2-FCV-678 | 11 | |
| | VAC-2-FCV-679 | Note 2 | 6 |

## APPENDIX C

Table 1
As Found Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 82 | VAC-2-FCV-654 | 61 | |
| | VAC-2-FCV-655 | 62 | 61 |
| 83 | VAC-2-FCV-656 | 16 | |
| | VAC-2-FCV-657 | 19 | 16 |
| 83 | VAC-2-200 | 318 | |
| | VAC-2-201 | 216 | |
| | VAC-2-1 | 98 | |
| | VAC-2-2 | Note 2 | 98 |

| | |
|---|---|
| Total As-Found Type C Leakage(SCCM) | 5255(SCCM) |
| (LBM/day) | 20.50(LBM/DAY) |

NOTES:
1. Test volume would not pressurize, no data available.
2. Tested in parallel with preceding listed valve.
3. Single outside check failed to pressurize. Following repair of check and LLRT of check and closed system, all of leakage was assigned to closed system for determination of as-found leakage.
4. Density of air in containment assumed at 0.07648 lb/cubic foot.

## APPENDIX C

Table 1
As Found Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 69 | VAC-2-21 | Note 1 | |
| | VAC-2-FCV-681 | 23 | 23 |
| 70 | AXS-2-208 | 3060 | |
| | AXS-2-26 | 61 | 61 |
| 71 | RCS-2-8028 | 56 | |
| | RCS-2-512 | 109 | 56 |
| 76 | NSS-2-9354A | 20 | |
| | NSS-2-9354B | 18 | 18 |
| 76 | RCS-2-8034A | 17 | |
| | RCS-2-8034B | 19 | 17 |
| 78 | VAC-2-FCV-238 | 20 | |
| | VAC-2-FCV-239 | 17 | 17 |
| 78 | VAC-2-FCV-240 | 16 | |
| | VAC-2-253 | 16 | 16 |
| 79 | FP-2-867 | 16 | |
| | FP-2-FCV-633 | 15454 | 16 |
| 81 | VAC-2-FCV-658 | 26 | |
| | VAC-2-FCV-668 | 219 | 26 |
| 82 | LWS-2-FCV-696 | 15 | |
| | LWS-2-FCV-697 | 14 | 14 |
| 82 | VAC-2-FCV-698 | 13 | |
| | VAC-2-FCV-699 | 13 | 13 |
| 82 | VAC-2-FCV-700 | 20 | |
| | VAC-2-116 | 17 | 17 |

## APPENDIX C

Table 2
As Left Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 19 | CCW-2-585 | 189 | |
| | CCW-2-FCV-356 | 182 | 182 |
| 20 | CCW-2-FCV-363 | 152 | |
| | CCW-2-FCV-749 | 152 | |
| | CCW-2-581 | Note 2 | 152 |
| 21 | CCW-2-670 | 114 | |
| | CCW-2-FCV-750 | Note 2 | |
| | CCW-2-FCV-357 | 42 | 42 |
| 22 | CCW-2-695 | 51 | 51 |
| 23 | CCW-2-FCV-361 | 28 | 28 |
| 30 | CS-2-9011B | 2248 | |
| | CS-2-32 | 151 | |
| | CS-2-9001B | Note 2 | 151 |
| 31 | CS-2-9011A | 1114 | |
| | CS-2-31 | 61 | |
| | CS-2-9001A | Note 2 | 61 |
| 35 | CVCS-2-8149A | 108 | |
| | CVCS-2-8149B | Note 2 | |
| | CVCS-2-8149C | Note 2 | |
| | CVCS-2-8152 | 74 | 74 |
| 41 | CVCS-2-8368A | 19 | 19 |
| 42 | CVCS-2-8368B | 21 | 21 |
| 43 | CVCS-2-8368C | 150 | 150 |
| 44 | CVCS-2-8368D | 145 | 145 |

## APPENDIX C

Table 2
As Left Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 45 | CVCS-2-8112 | 131 | |
| | CVCS-2-8109 | Note 2 | |
| | CVCS-2-8100 | 57 | 57 |
| 46 | LWSL-2-8787 | 60 | |
| | LWS-2-8796 | Note 2 | 30 |
| 47 | LWS-2-8767 | 50 | |
| | LWS-2-8795 | Note 2 | 25 |
| 49 | LWS-2-FCV-500 | 20 | |
| | LWS-2-FCV-501 | 87 | 20 |
| 50 | LWS-2-FCV-253 | 13 | |
| | LWS-2-FCV-254 | 16 | 13 |
| 51 | N2-2-8916 | 312 | |
| | N2-2-8880 | 72 | 72 |
| 51 | SI-2-8871 | 17 | |
| | SI-2-8883 | 24 | |
| | SI-2-8961 | Note 2 | |
| | SI-2-161 | Note 2 | 17 |
| 51 | LWS-2-FCV-255 | 15 | |
| | LWS-2-256 | 16 | 15 |
| 51 | LWS-2-257 | 13 | |
| | LWS-2-258 | 13 | 13 |
| 52 | RCS-2-8046 | 44 | |
| | RCS-2-8029 | 18 | 18 |
| 52 | RCS-2-8047 | 122 | |
| | RCS-2-8045 | 80 | 80 |
| 52 | LWS-2-60 | 564 | |
| | LWS-2-FCV-260 | 96 | 96 |

APPENDIX C

Table 2
As Left Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 52 | VAC-2-FCV-235 | 18 | |
| | VAC-2-FCV-236 | 16 | 16 |
| 52 | VAC-2-FCV-237 | 17 | |
| | VAC-2-252 | 21 | 17 |
| 54 | AIR-I-2-587 | 260 | |
| 54 | AIR-I-2-585 | 103 | |
| | AIR-I-2-FCV-584 | Note 2 | 103 |
| 56 | AIR-S-2-114 | 546 | |
| | AIR-S-2-200 | 122 | 122 |
| 57 | AIR-I-FCV-659 | 16 | |
| | AIR-1-FCV-669 | 688 | 16 |
| 59 | NSS-2-9355A | 13 | |
| | NSS-2-9355B | 13 | 13 |
| 59 | NSS-2-9356A | 13 | |
| | NSS-2-9356B | 13 | 13 |
| 59 | NSS-2-9357A | 13 | |
| | NSS-2-9357B | 13 | 13 |
| 61 | VAC-2-FCV-661 | 239 | |
| | VAC-2-FCV-660 | Note 2 | 120 |
| 62 | VAC-2-RCV-11 | 2743 | |
| | VAC-2-RCV-12 | Note 2 | 1372 |
| 63 | VAC-2-FCV-662 | 15 | |
| | VAC-2-FCV-663 | Note 2 | 8 |
| | VAC-2-FCV-664 | Note 2 | |
| 68 | VAC-2-FCV-678 | 11 | |
| | VAC-2-FCV-679 | Note 2 | 6 |

## APPENDIX C

Table 2
As Left Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 69 | VAC-2-21 | 18 | |
| | VAC-2-FCV-681 | 23 | 18 |
| 70 | AXS-2-208 | 333 | |
| | AXS-2-26 | 61 | 61 |
| 71 | RCS-2-8028 | 56 | |
| | RCS-2-512 | 109 | 56 |
| 76 | NSS-2-9354A | 16 | |
| | NSS-2-9354B | 16 | 16 |
| 76 | RCS-2-8034A | 18 | |
| | RCS-2-8034B | 19 | 18 |
| 78 | VAC-2-FCV-238 | 20 | |
| | VAC-2-FCV-239 | 17 | 17 |
| 78 | VAC-2-FCV-240 | 16 | |
| | VAC-2-253 | 16 | 16 |
| 79 | FP-2-867 | 16 | |
| | FP-2-FCV-633 | 384 | 16 |
| 81 | VAC-2-FCV-658 | 26 | |
| | VAC-2-FCV-668 | 219 | 26 |
| 82 | LWS-2-FCV-696 | 15 | |
| | LWS-2-FCV-697 | 14 | 14 |
| 82 | VAC-2-FCV-698 | 13 | |
| | VAC-2-FCV-699 | 13 | 13 |
| 82 | VAC-2-FCV-700 | 20 | |
| | VAC-2-116 | 17 | 17 |

## APPENDIX C

Table 2
As Left Type C Leakage Summary

| Penetration Number | Valve Identifier | Reported Leakage (SCCM) | Penetration Leakage (SCCM) |
|---|---|---|---|
| 82 | VAC-2-FCV-654 | 61 | |
| | VAC-2-FCV-655 | 62 | 61 |
| 83 | VAC-2-FCV-656 | 16 | |
| | VAC-2-FCV-657 | 19 | 62 |
| 83 | VAC-2-200 | 318 | |
| | VAC-2-201 | 216 | 216 |
| | VAC-2-1 | 98 | |
| | VAC-2-2 | Note 2 | 98 |

| | |
|---|---|
| Total As-Left Type C Leakage(SCCM) | 4048 SCCM |
| (LBM/day) | 15.79LBM/day |

NOTES:
1. Test volume would not pressurize, no data available.
2. Tested in parallel with preceding listed valve.
3. Single outside check failed to pressurize. Following repair of check and LLRT of check and closed system, all of leakage was assigned to closed system for determination of as-found leakage.
4. Density of air in containment assumed at 0.07648 lb/cubic foot.

## APPENDIX C

Table 3

As Found Type B Leakage Summary

| Component | Reported Leakage (lbs/day) | Penetration Leakage (lbs/day) |
|---|---|---|
| Personnel Airlock | 5.907 | 2.954 |
| Emergency Airlock | 8.468 | 4.234 |
| Equipment Hatch Seals | 0.1716 | 0.0858 |
| Fuel Transfer Tube Seals | 0.585 | 0.293 |
| Electrical Penetrations | 0.155 | 0.155 |
| Total As Found Type B Leakage | | 7.722 |

Table 4

As Left Type B Leakage Summary

| Component | Reported Leakage (lbs/day) | Penetration Leakage (lbs/day) |
|---|---|---|
| Personnel Airlock | 7.989 | 3.995 |
| Emergency Airlock | 8.126 | 4.063 |
| Equipment Hatch Seals | 0.070 | 0.035 |
| Fuel Transfer Tube Seals | 0.585 | 0.293 |
| Electrical Penetrations | 0.155 | 0.155 |
| Total As Left Type B Leakage (LBM/day) | | 8.641 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test. Generally only one valve tested.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 19 | CCW-2-585 | 4-16-85 | 256 | | | |
| | | 9-7-85 | | 28 | | |
| | CCW-2-FCV-356 | 4-16-85 | 270 | | | |
| | | 9-10-85 | | 202 | 270 | 256 |
| | CCW-2-585 | 4-13-87 | 25 | 25 | | |
| | CCW-2-FCV-356 | 4-13-87 | 470 | | | |
| | | 5-26-87 | | 194 | 470 | 25 |
| | CCW-2-585 | 10-10-88 | N/P | | | |
| | | 10-27-88 | N/P | | | |
| | | 10-31-88 | | 184 | | |
| | CCW-2-FCV-356 | 10-10-88 | 179 | 179 | Note 1 | 179 |
| | CC2-2-585 | 3-22-90 | 189 | 189 | | |
| | CCW-2-FCV-356 | 3-22-90 | 182 | 182 | 189 | 182 |
| 20 | CCW-2-FCV-363 | 4-17-85 | 125 | 125 | | |
| | CCW-2-FCV-749 | | | | | |
| | CCW-2-581 | 4-17-85 | 102 | | | |
| | | 9-23-85 | | 184 | 125 | 102 |
| | | 2-04-86 | 245 | 245 | Note 2 | |
| | CCW-2-FCV-363 | 4-14-87 | 6260 | | | |
| | | 5-20-87 | | 121 | | |
| | CCW-2-FCV-749 | | | | | |
| | CCW-2-581 | 4-14-87 | 224 | | | |
| | | 5-13-87 | | 193 | 6620 | 224 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test. Generally only one valve tested.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 20 | CCW-2-FCV-363 | 11-03-88 | 1190 | | | |
| | | 11-03-88 | | 148 | | |
| | CCW-2-FCV-749 | | | | | |
| | CCW-2-581 | 11-01-88 | 1420 | | | |
| | | 11-01-88 | | 688 | 1420 | 148 |
| | CCW-2-FCV-363 | 3-07-90 | N/P | | | |
| | | 3-08-90 | | 352 | | |
| | | 4-04-90 | | 152 | | |
| | CCW-2-FCV-749 | | | | | |
| | CCW-2-581 | 3-07-90 | 258 | | | |
| | | 4-04-90 | | 152 | Note 1 | 258 |
| 21 | CCW-2-670 | | | | | |
| | CCW-2-FCV-750 | 4-18-85 | 24 | | | |
| | | 9-12-85 | | 30 | | |
| | CCW-2-FCV-357 | 4-18-85 | 24 | | | |
| | | 9-12-85 | | 27 | 24 | 24 |
| | CCW-2-670 | | | | | |
| | CCW-2-FCV-750 | 4-15-87 | 380 | | | |
| | | 5-12-87 | | 371 | | |
| | CCW-2-FCV-357 | 4-15-87 | 223 | | | |
| | | 5-12-87 | | 16 | 380 | 223 |

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HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | CCW-2-670 | | | | | |
| | CCW-2-FCV-750 | 7-19-88 | 660 | 660 | Note 2 | |
| | CCW-2-670 | | | | | |
| | CCW-2-FCV-750 | 10-31-88 | 965 | | | |
| | | 11-01-88 | | 650 | | |
| | CCW-2-FCV-357 | 11-01-88 | 126 | 126 | 965 | 126 |
| | CCW-2-670 | | | | | |
| | CCW-2-FCV-750 | 3-08-90 | 621 | | | |
| | | 4=03-90 | | 114 | | |
| | CCW-2-FCV-357 | 3-08-90 | 63 | 42 | 621 | 63 |
| 22 | CCW-2-695 | 4-24-85 | 157 | | | |
| | | 9-05-85 | | 285 | 157 | 157 |
| | CCW-2-695 | 4-08-87 | 208 | 208 | 208 | 208 |
| | CCW-2-695 | 9-21-88 | 210 | 210 | 210 | 210 |
| | CCW-2-695 | 3-16-90 | N/P | | | |
| | | 3-26-90 | | 51 | Note 1 | 51 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 23 | CCW-2-361 | 4-24-85 | 157 | | | |
| | | 9-05-85 | | 67 | 157 | 157 |
| | CCW-2-361 | 4-08-87 | 75 | 75 | 75 | 75 |
| | CCW-2-361 | 9-21-88 | 174 | 174 | 174 | 174 |
| | CCW-2-361 | 3-16-90 | 28 | 28 | 28 | 28 |
| 30 | CS-2-9011B | 3-12-85 | N/P | | | |
| | | 3-19-85 | | 1379 | | |
| | | 6-25-85 | 2933 | | | |
| | | 9-10-85 | | 3093 | Note 2 | |
| | CS-2-32 | | | | | |
| | CS-2-9001B | 3-11-85 | 427 | | | |
| | | 9-10-85 | | 382 | 427 | 382 |
| | CS-2-9011B | 4-07-87 | 3469 | | | |
| | | 5-13-87 | | 2088 | | |
| | CS-2-32 | | | | | |
| | CS-2-9001B | 7-05-87 | N/P | | | |
| | | 5-18-87 | | 714 | | |
| | | 5-26-87 | | 377 | Note 1 | 3469 |
| | CS-2-9011B | 10-11-88 | 1615 | 1615 | | |
| | CS-2-32 | | | | | |
| | CS-2-9001B | 10-12-88 | 567 | 567 | 1615 | 567 |

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HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 30 | CS-2-9011B | 3-07-90 | N/P | | | |
| | | 3-24-90 | | 2248 | | |
| | CS-2-32 | | | | | |
| | CS-2-9001B | 3-07-90 | 401 | | | |
| | | 3-24-90 | | 151 | Note 1 | 401 |
| 31 | CS-2-9011A | 3-12-85 | 1003 | | | |
| | | 6-25-85 | 1690 | | | |
| | | 9-10-85 | | 1150 | | |
| | CS-2-31 | | | | | |
| | CS-2-9001A | 3-12-85 | 137 | | | |
| | | 9-10-85 | | 787 | 1690 | 137 |
| 31 | CS-2-9011A | 4-08-87 | 1763 | | | |
| | | 5-13-87 | | 2270 | | |
| | CS-2-31 | | | | | |
| | CS-2-9001A | 4-08-87 | 369 | | | |
| | | 5-13-87 | | 217 | 1763 | 369 |
| | CS-2-9011A | 3-07-90 | 754 | | | |
| | | 3-25-90 | | 1114 | | |
| | CS-2-31 | | | | | |
| | CS-2-9001A | 3-07-90 | 106 | 61 | 754 | 106 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 35 | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 4-10-85 | N/P | | | |
| | | 4-11-85 | | 24 | | |
| | | 9-24-85 | | 175 | | |
| | CVCS-2-8152 | 4-10-85 | 48 | | | |
| | | 9-24-85 | | 103 | Note 1 | 48 |
| | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 2-13-86 | 113 | 113 | | |
| | CVCS-2-8152 | 2-10-86 | 43 | 43 | 113 | 43 |
| | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 7-27-86 | 32500 | | | |
| | | 7-29-86 | | 140 | | |
| | | 8-01-86 | | 54 | Note 2 | |
| | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 4-29-87 | 110 | | | |
| | | 5-21-87 | | 357 | | |
| | CVCS-2-8152 | 4-29-87 | 40 | | | |
| | | 5-22-87 | | 538 | 110 | 40 |
| | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 10-03-88 | 226 | | | |
| | | 10-29-88 | | 117 | | |
| | CVCS-2-8152 | 10-04-88 | 70 | 70 | 226 | 70 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 35 | CVCS-2-8149A | | | | | |
| | CVCS-2-8149B | | | | | |
| | CVCS-2-8149C | 3-18-90 | N/P | | | |
| | | 4-02-90 | | 108 | | |
| | CVCS-2-8152 | 3-18-90 | 18 | | | |
| | | 3-26-90 | | 74 | Note 1 | 18 |
| 41 | CVCS-2-8368A | 2-26-85 | 157 | 157 | | |
| | | 9-13-85 | | 58 | 157 | 58 |
| | | 4-29-87 | 17 | 17 | 17 | 17 |
| | | 10-01-88 | 983 | 983 | 903 | 903 |
| | | 3-19-90 | 19 | 19 | 19 | 19 |
| 42 | CVCS-2-8368B | 2-26-85 | 24 | 24 | | |
| | | 9-13-85 | | 508 | 24 | 24 |
| | | 4-29-87 | 29 | 29 | 29 | 29 |
| | | 10-01-88 | 38 | 38 | 38 | 38 |
| | | 3-19-90 | 21 | 21 | 21 | 21 |
| 43 | CVCS-2-8368C | 2-26-85 | 1272 | | | |
| | | 9-13-85 | | 652 | 1272 | .1272 |
| | | 4-29-87 | 975 | 975 | 975 | 975 |
| | | 10-01-88 | 165 | 165 | 165 | 165 |
| | | 3-19-90 | 150 | 150 | 150 | 150 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 44 | CVCS-2-8368D | 2-26-85 | 255 | | | |
| | | 9-13-85 | | 1484 | 255 | 255 |
| | | 4-29-87 | 155 | 155 | 155 | 155 |
| | | 10-02-88 | 183 | 183 | 183 | 183 |
| | | 3-19-90 | 145 | 145 | 145 | 145 |
| 45 | CVCS-2-8112 | | | | | |
| | CVCS-2-8109 | 3-16-85 | 434 | | | |
| | | 9-21-85 | | 345 | | |
| | CVCS-2-8100 | 3-17-85 | 111 | | | |
| | | 9-21-85 | | 24 | 434 | 111 |
| | CVCS-2-8112 | | | | | |
| | CVCS-2-8109 | 5-06-87 | 20 | | | |
| | | 5-22-87 | | 618 | | |
| | CVCS-2-8100 | 5-06-87 | 31 | | | |
| | | 5-22-87 | | 310 | 31 | 20 |
| | CVCS-2-8112 | | | | | |
| | CVCS-2-8109 | 11-17-88 | 1128 | 1128 | | |
| | CVCS-2-8100 | 11-17-88 | 779 | 779 | 1128 | 779 |
| | CVCS-2-8112 | | | | | |
| | CVCS-2-8109 | 3-20-90 | 1665 | | | |
| | | 4-13-90 | | 131 | | |
| | CVCS-2-8100 | 4-03-90 | 57 | 57 | 1665 | 57 |
| 46 | LWS-2-8787 | | | | | |
| | LWS-2-8796 | 7-03-85 | 23 | | | |
| | | 9-09-85 | | 22 | 23 | 12 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | LWS-2-8787 | | | | | |
| | LWS-2-8796 | 4-07-87 | 25 | 25 | 25 | 13 |
| 46 | LWS-2-8787 | | | | | |
| | LWS-2-8796 | 9-20-88 | 14 | 14 | 14 | 7 |
| | | 3-06-90 | 60 | 60 | 60 | 30 |
| 47 | LWS-2-8767 | | | | | |
| | LWS-2-8795 | 7-03-85 | 28 | | | |
| | | 9-09-85 | | 16 | 28 | 14 |
| | LWS-2-8767 | | | | | |
| | LWS-2-8795 | 4-07-87 | 32 | 32 | 32 | 16 |
| | | 9-20-88 | 12 | 12 | 12 | 6 |
| | | 3-06-90 | 50 | 50 | 50 | 25 |
| 49 | LWS-2-FCV-500 | 7-03-85 | 22 | | | |
| | | 9-17-85 | | 90 | | |
| | LWS-2-FCV-501 | 7-03-85 | 27 | | | |
| | | 9-17-85 | | 93 | 27 | 22 |
| | LWS-2-FCV-500 | 4-28-87 | 22 | 22 | | |
| | LWS-2-FCV-501 | 4-28-87 | 18 | 18 | 22 | 18 |
| | LWS-2-FCV-500 | 10-03-88 | 48 | 48 | | |
| | LWS-2-FCV-501 | 10-03-88 | 44 | 44 | 48 | 44 |
| | LWS-2-FCV-500 | 3-06-90 | 20 | 20 | | |
| | LWS-2-FCV-501 | 3-06-90 | 87 | 87 | 87 | 20 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 50 | LWS-2-FCV-253 | 4-27-85 | 24 | | | |
| | | 9-24-85 | | 31 | | |
| | LWS-2-FCV-254 | 4-27-85 | 24 | | | |
| | | 9-24-85 | | 30 | 24 | 24 |
| | LWS-2-FCV-253 | 4-14-87 | 130 | 130 | | |
| | LWS-2-FCV-254 | 4-14-87 | 130 | 130 | 130 | 130 |
| | LWS-2-FCV-253 | 9-23-88 | 15 | 15 | | |
| | LWS-2-FCV-254 | 9-23-88 | 15 | 15 | 15 | 15 |
| | LWS-2-FCV-253 | 3-24-90 | 18 | 13 | | |
| | LWS-2-FCV-253 | 3-24-90 | 16 | 16 | 18 | 16 |
| 51 | NS-2-8916 | 2-23-85 | 466 | | | |
| | | 9-14-85 | | 367 | | |
| | N2-2-8880 | 2-23-85 | 24 | | | |
| | | 9-14-85 | | 144 | 446 | 24 |
| | N2-2-8916 | 4-15-87 | 221 | 221 | | |
| | N2-2-8880 | 4-15-87 | 79 | 79 | 221 | 79 |
| | N2-2-8916 | 9-23-88 | 432 | 432 | | |
| | N2-2-8880 | 9-23-88 | 195 | 195 | 432 | 195 |
| | N2-2-8916 | 3-08-90 | 312 | 312 | | |
| | N2-2-8880 | 3-08-90 | 72 | 72 | 312 | 72 |
| 51 | SI-2-8871 | 3-16-85 | 29 | 29 | | |
| | SI-2-8883 | | | | | |
| | SI-2-8961 | | | | | |
| | SI 2-161 | 3-16-85 | 35 | 35 | 35 | 29 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 51 | SI-2-8871 | 4-07-87 | 15 | | | |
| | | 5-02-87 | | 22 | | |
| | SI-2-8883 | | | | | |
| | SI-2-8961 | | | | | |
| | SI-2-161 | 4-07-87 | 15 | 15 | 15 | 15 |
| | SI-2-8871 | 10-08-88 | 19 | 15 | | |
| | SI-2-8883 | | | | | |
| | SI-2-8961 | | | | | |
| | SI-2-161 | 10-08-88 | 15 | 15 | 19 | 15 |
| | SI-2-8871 | 4-04-90 | 17 | 17 | | |
| | SI-2-8883 | | | | | |
| | SI-2-8961 | | | | | |
| | SI-2-161 | 4-04-90 | 24 | 24 | 24 | 17 |
| 51 | LWS-2-FCV-255 | 2-25-85 | 80 | | | |
| | | 9-24-85 | | 44 | | |
| | LWS-2-256 | 2-25-85 | 77 | | | |
| | | 9-24-85 | | 49 | 80 | 77 |
| | LWS-2-FCV-255 | 4-15-87 | 19 | 19 | | |
| | LWS-2-256 | 4-15-87 | 22 | 22 | 22 | 19 |
| 51 | LWS-2-255 | 9-23-88 | 15 | 15 | | |
| | LWS-2-256 | 9-23-88 | 13 | 13 | 15 | 13 |
| | LWS-2-255 | 3-20-90 | 15 | 15 | | |
| | LWS-2-256 | 3-20-90 | 16 | 16 | 16 | 15 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 51 | LWS-2-257 | 2-25-85 | 24 | | | |
| | | 9-16-85 | | 91 | | |
| | LWS-2-258 | 2-25-85 | 24 | | | |
| | | 9-16-85 | | 101 | 24 | 24 |
| | LWS-2-257 | 4-15-87 | 18 | 18 | | |
| | LWS-2-258 | 4-15-87 | 15 | 15 | 18 | 15 |
| | LWS-2-257 | 9-23-88 | 16 | 16 | | |
| | LWS-2-258 | 9-23-88 | 17 | 17 | 16 | 17 |
| | LWS-2-257 | 3-08-90 | 15 | | | |
| | | 4-04-90 | | 13 | | |
| | LWS-2-258 | 3-08-90 | 14 | | | |
| | | 4-4-90 | | 13 | 15 | 14 |
| 52 | RCS-2-8046 | 3-06-85 | 215 | | | |
| | | 9-19-85 | | 806 | | |
| | RCS-2-8029 | 2-06-85 | 41 | | | |
| | | 9-19-25 | | 394 | 215 | 41 |
| | RCS-2-8046 | 4-15-87 | 144 | | | |
| | | 5-02-87 | | 49 | | |
| | RCS-2-8029 | 4-15-87 | N/P | | | |
| | | 5-02-87 | | 22 | | |
| | | 6-15-87 | | 20 | 144 | 22 |
| | RCS-2-8046 | 10-26-88 | 135 | 135 | | |
| | RCS-2-8029 | 10-26-88 | 24 | 24 | 135 | 24 |
| | RCS-2-8046 | 3-07-90 | 70 | | | |
| | | 3-25-90 | | 44 | | |
| | RCS-2-8029 | 3-07-90 | 95 | | | |
| | | 3-25-90 | | 18 | 95 | 70 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 52 | RCS-2-8047 | 3-07-85 | 132 | | | |
| | | 9-06-85 | | 244 | | |
| | RCS-2-8045 | 3-07-85 | 17 | | | |
| | | 9-06-85 | | 46 | 132 | 17 |
| | RCS-2-8047 | 4-15-87 | 127 | 127 | | |
| | RCS-2-8045 | 4-15-87 | 20 | 20 | 127 | 20 |
| | RCS-2-8047 | 11-10-88 | 103 | 103 | | |
| | RCS-2-8045 | 11-13-88 | 13 | 13 | 103 | 13 |
| | RCS-2-8047 | 3-09-90 | 85 | | | |
| | | 3-17-90 | | 122 | | |
| | RCS-2-8045 | 3-09-90 | 17 | | | |
| | | 3-17-90 | | 80 | 85 | 17 |
| 52 | LWS-2-60 | 3-06-85 | 18490 | | | |
| | | 3-26-85 | | 495 | | |
| | | 9-17-85 | | 240 | | |
| | LWS-2-FCV-260 | 3-06-85 | | 17 | | |
| | | 9-17-85 | | 40 | 18490 | 17 |
| | LWS-2-60 | 4-15-87 | 317 | 317 | | |
| | LWS-2-260 | 4-15-87 | 54 | 54 | 317 | 54 |
| | LWS-2-60 | 11-10-88 | N/P | | | |
| | | 11-13-88 | | 718 | | |
| | LWS-2-260 | 11-10-88 | 83 | 83 | Note 1 | 83 |
| | LWS-2-60 | 3-08-90 | N/P | | | |
| | | 3-15-90 | | 564 | | |
| | LWS-2-260 | 3-08-90 | 96 | 96 | Note 1 | 96 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 52 | VAC-2-FCV-235 | 3-21-85 | 24 | | | |
| | | 9-09-85 | | 44 | | |
| | VAC-2-FCV-236 | 3-21-85 | 24 | | | |
| | | 9-09-85 | | 33 | 24 | 24 |
| | VAC-2-FCV-235 | 9-09-85 | 44 | 44 | | |
| | VAC-2-FCV-236 | 9-09-85 | 33 | 33 | 44 | 33 |
| | VAC-2-FCV-235 | 4-15-87 | 20 | 20 | | |
| | VAC-2-FCV-236 | 4-15-87 | 19 | 19 | 20 | 19 |
| | VAC-2-FCV-235 | 9-18-88 | 12 | 12 | | |
| | VAC-2-FCV-236 | 9-18-88 | 12 | 12 | 12 | 12 |
| | VAC-2-FCV-235 | 3-06-90 | 18 | 18 | | |
| | VAC-2-FCV-236 | 3-06-90 | 16 | 16 | 18 | 16 |
| 52 | VAC-2-FCV-237 | 3-21-85 | 24 | 24 | | |
| | VAC-2-252 | 3-21-85 | 24 | 24 | 24 | 24 |
| | VAC-2-FCV-237 | 9-09-85 | 38 | 38 | | |
| | VAC-2-252 | 9-09-85 | 31 | 31 | 38 | 31 |
| | VAC-2-FCV-237 | 4-15-87 | 19 | 19 | | |
| | VAC-2-252 | 4-15-87 | 18 | 18 | 19 | 18 |
| | VAC-2-FCV-237 | 9-09=88 | 26 | 26 | | |
| | VAC-2-252 | 9-09-88 | 18 | 18 | 26 | 18 |
| | VAC-2-FCV-237 | 3-06-90 | 17 | 17 | | |
| | VAC-2-252 | 3-06-90 | 21 | 21 | 21 | 17 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 54 | AIR-I-2-587 | 9-11-85 | 39 | 39 | | |
| | AIR-I-2-585 | | | | | |
| | AIR-I-2-FCV-584 | 9-11-85 | 25 | 25 | 39 | 25 |
| | AIR-I-2-587 | 5-03-87 | 50 | 50 | | |
| | AIR-I-2-585 | | | | | |
| | AIR-I-2-FCV-584 | 5-03-87 | 37 | 37 | 50 | 37 |
| | AIR-I-2-587 | 11-03-88 | 53 | 53 | | |
| | AIR-I-2-585 | | | | | |
| | AIR-I-2-FCV-584 | 11-03-88 | 130 | 130 | 130 | 53 |
| | AIR-I-2-587 | 3-17-90 | 260 | 260 | | |
| | AIR-I-2-585 | | | | | |
| | AIR-I-2-FCV-584 | 3-17-90 | 103 | 103 | 260 | 103 |
| 56 | AIR-S-2-114 | 3-17-85 | 927 | | | |
| | | 4-06-85 | | 42 | | |
| | | 9-21-85 | | 269 | | |
| | AIR-S-2-200 | 3-17-85 | 60 | | | |
| | | 9-21-85 | | 340 | 927 | 60 |
| | AIR-S-2-114 | 5-03-87 | 453 | 453 | | |
| | AIR-S-2-200 | 5-03-87 | 120 | 120 | 453 | 120 |
| | AIR-S-2-114 | 9-18-88 | 386 | 386 | | |
| | AIR-S-2-200 | 9-18-88 | 245 | 245 | 386 | 245 |
| | AIR-S-2-114 | 3-05-90 | 546 | 546 | | |
| | AIR-S-2-200 | 3-05-90 | 122 | 122 | 546 | 122 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 57 | AIR-I-FCV-659 | 2-15-85 | 19 | | | |
| | | 9-07-85 | | 225 | | |
| | AIR-1-FCV-669 | 2-15-85 | 119 | | | |
| | | 9-07-85 | | 280 | 119 | 19 |
| | AIR-I-FCV-659 | 5-02-87 | 46 | 46 | | |
| | AIR-I-FCV-669 | 5-02-87 | 105 | 105 | | |
| | AIR-I-FCV-659 | 11-10-88 | 104 | 104 | | |
| | AIR-I-FCV-669 | 11-12-88 | 1042 | | | |
| | | 11-18-88 | | 1502 | 1042 | 104 |
| | AIR-I-FCV-659 | 3-07-90 | 16 | 16 | | |
| | AIR-I-FCV-669 | 3-07-90 | 688 | 688 | 688 | 16 |
| 59 | NSS-2-9355A | 3-30-85 | 6 | | | |
| | | 9-14-85 | | 42 | | |
| | NSS-2-9355B | 3-30-85 | 6 | | | |
| | | 9-14-85 | | 43 | 43 | 6 |
| | NSS-2-9355A | 1-29-86 | 15 | 15 | | |
| | NSS-2-9355B | 1-29-86 | 17 | 17 | 17 | 15 |
| | NSS-2-9355A | 5-01-87 | 26 | | | |
| | | 6-13-87 | | 29 | | |
| | NSS-2-9355B | 5-01-87 | 2525 | | | |
| | | 6-13-87 | | 18 | 2525 | 26 |
| | NSS-2-9355A | 11-11-88 | 146 | 146 | | |
| | NSS-2-9355B | 11-11-88 | 83 | 83 | 146 | 83 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | NSS-2-9355A | As found condition voided by repair. | | | | |
| | | 4-06-90 | | 13 | | |
| | NSS-2-9355B | 4-02-90 | 15 | | | |
| | | 4-06-90 | | 13 | Note 1 | 15 |
| 59 | NSS-2-9356A | 4-01-85 | 5 | | | |
| | | 9-14-85 | | 38 | | |
| | NSS-2-9356B | 4-01-85 | 5 | | | |
| | | 9-14-85 | | 14 | 5 | 5 |
| | NSS-2-9356A | 1-29-86 | 21 | 21 | | |
| | NSS-2-9356B | 1-29-86 | 20 | 20 | 21 | 20 |
| | NSS-2-9356A | 5-01-87 | 28 | | | |
| | | 5-14-87 | | 16 | | |
| | NSS-2-9356B | 5-01-87 | 40 | | | |
| | | 5-14-87 | | 19 | | |
| | | 7-02-87 | | 189 | 40 | 28 |
| | NSS-2-9356A | 11-16-88 | 12 | 12 | | |
| | NSS-2-9356B | 11-16-88 | 13 | 13 | 13 | 12 |
| | NSS-2-9356A | 4-05-90 | 13 | 13 | | |
| | NSS-2-9356B | 4-05-90 | 13 | 13 | 13 | 13 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 59 | NSS-2-9357A | 4-01-85 | 5 | | | |
| | | 9-19-85 | | 15 | | |
| | NSS-2-9357B | 4-01-85 | 5 | | | |
| | | 9-21-85 | | 23 | 5 | 5 |
| | NSS-2-9357A | 5-01-87 | 17 | | | |
| | | 5-14-87 | | 18 | | |
| | NSS-2-9357B | 5-01-87 | 12 | | | |
| | | 5-14-87 | | 1572 | | |
| | | 5-19-87 | | 23 | 17 | 12 |
| | NSS-2-9357A | 11-11-88 | 21 | 21 | | |
| | NSS-2-9357B | 11-11-88 | 18 | 18 | 21 | 18 |
| | NSS-2-9357A | 3-07-90 | 13 | | | |
| | | 4-06-90 | | 13 | | |
| | NSS-2-93573 | 3-07-90 | 13 | | | |
| | | 4-06-90 | | 13 | 13 | 13 |

For Penetration 61: Unless otherwise indicated, As-found and As-left values are the same.

| | | | | |
|---|---|---|---|---|
| 61 | VAC-2-FCV-661 | | | |
| | VAC-2-FCV-660 | 5-04-85 | 5778 | 5778 |
| | | 7-18-85 | | 5403 |
| | | 7-29-85 | | 5393 |
| | | 8-05-85 | | 6175 |
| | | 8-12-85 | | 6528 |
| | | 8-15-85 | | 6063 |
| | | 8-17-85 | | 5700 |
| | | 10-02-85 | | 6795 |
| | | 10-04-85 | | 6795 |
| | | 10-20-85 | | 5638 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 61 | VAC-2-FCV-661 | 11-04-85 | | 5220 | | |
| | VAC-2-FCV-660 | 11-22-85 | | 6355 | | |
| | | 11-30-85 | | 6590 | | |
| | | 12-17-85 | | 6373 | | |
| | | 1-10-86 | | 6593 | | |
| | | 2-08-86 | | 6600 | | |
| | | 2-14-86 | | 7078 | | |
| | | 3-03-86 | | 6320 | | |
| | | 3-11-86 | | 6423 | | |
| | | 3-18-86 | | 6088 | | |
| | | 3-31-86 | | 5970 | Minimum pathway leakage | |
| | | 4-22-86 | | 6418 | will be one half of | |
| 61 | | 5-13-86 | | 6340 | penetration leakage. | |
| | | 6-03-86 | | 6285 | | |
| | | 6-17-86 | | 6250 | | |
| | | 7-26-86 | | 6438 | | |
| | | 7-29-86 | | 5648 | | |
| | | 8-05-86 | | 5715 | | |
| | | 9-18-86 | | 5210 | | |
| | | 10-02-86 | | 5843 | | |
| | | 10-12-86 | | 5426 | | |
| | | 11-04-86 | | 7350 | | |
| | | 11-11-86 | | 8570 | | |
| | | 11-18-86 | | 6268 | | |
| | | 12-03-86 | | 6008 | | |
| | | 12-08-86 | | 6780 | | |
| | | 12-26-86 | | 6505 | | |
| | | 12-31-86 | | 6005 | | |
| | | 1-12-87 | | 7045 | | |
| | | 1-20-87 | | 5928 | | |
| | | 2-04-87 | | 5168 | | |
| | | 2-18-87 | | 5115 | | |
| | | 3-10-87 | | 6389 | | |
| | | 6-26-87 | | 5575 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 7-07-87 | | 5365 | | |
| | | 7-10-87 | | 3590 | | |
| | | 7-17-87 | | 4580 | | |
| | | 8-25-87 | | 5573 | | |
| | | 9-15-87 | | 3230 | | |
| | | 9-18-87 | | 3398 | | |
| | | 10-08-87 | | 6420 | | |
| | | 10-22-87 | | 7537 | | |
| | | 10-30-87 | | 4363 | | |
| | | 11-18-87 | | 5800 | | |
| | | 12-23-87 | | 7448 | Minimum pathway leakage | |
| | | 12-09-87 | 6063 | | will be one half of | |
| | | 12-09-87 | | 6475 | penetration leakage. | |
| | | 12-15-87 | | 7288 | | |
| 61 | VAC-2-FCV-661 | 12-19-87 | | 5210 | | |
| | VAC-2-FCV-660 | 1-13-88 | | 6958 | | |
| | | 2-03-88 | | 5190 | | |
| | | 3-1-88 | | 6563 | | |
| | | 3-08-88 | | 6640 | | |
| | | 3-23-88 | | 6228 | | |
| | | 3-28-88 | | 7090 | | |
| | | 4-02-88 | | 5498 | | |
| | | 4-08-88 | | 5925 | | |
| | | 5-03-88 | | 5363 | | |
| | | 7-21-88 | | 7173 | | |
| | | 8-06-88 | 48600 | 4525 | | |
| Inboard butterfly rotated 180 degrees to seat in accident direction. | | | | | | |
| | | 11-09-88 | | 2045 | | |
| | | 11-20-88 | N/P | | | |
| | | 11-22-88 | 11135 | 2143 | | |
| | | 3-05-90 | 1233 | | | |
| | | 4-05-90 | | 239 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 62 | VAC-2-RCV-11 | | | | | |
| | VAC-2-RCV-12 | 2-20-85 | 279 | 279 | | |
| | | 5-03-85 | 4375 | 4375 | | |
| | | 7-18-85 | | 704 | | |
| | | 7-19-85 | | 1055 | | |
| | | 7-28-85 | | 1828 | | |
| | | 8-05-85 | | 2785 | | |
| | | 8-06-85 | | 967 | | |
| | | 8-09-85 | | 1830 | | |
| | | 8-12-85 | | 4778 | | |
| | | 8-15-85 | | 4528 | | |
| | | 8-17-85 | | 1515 | | |
| | | 8-21-85 | | 750 | | |
| | | 8-27-85 | | 720 | | |
| | | 10-02-85 | | 2690 | Minimum pathway leakage will be one half of penetration leakage. | |
| | | 10-04-85 | | 1023 | | |
| | | 10-05-85 | | 2464 | | |
| | | 10-07-85 | | 392 | | |
| | | 10-10-85 | | 380 | | |
| | | 10-16-85 | | 656 | | |
| | | 10-20-85 | | 732 | | |
| | | 10-24-85 | | 848 | | |
| | | 10-28-85 | | 563 | | |
| | | 11-04-85 | | 2835 | | |
| | | 11-10-85 | | 790 | | |
| | | 11-20-85 | | 1510 | | |
| | | 11-22-85 | | 1390 | | |
| | | 11-26-85 | | 527 | | |
| | | 11-30-85 | | 1795 | | |
| | | 12-04-85 | | 773 | | |
| | | 12-09-85 | | 963 | | |
| | | 12-17-85 | | 1718 | | |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 12-20-85 | | 1493 | | |
| | | 12-24-85 | | 2430 | | |
| | | 12-29-85 | | 1900 | | |
| | | 1-09-86 | | 2295 | | |
| | | 1-12-86 | | 700 | | |
| | | 2-08-86 | | 2320 | | |
| | | 2-14-86 | | 2360 | | |
| | | 2-15-86 | | 2283 | | |
| | | 2-19-86 | | 1804 | | |
| | | 2-26-86 | | 2890 | | |
| | | 3-03-86 | | 455 | | |
| | | 3-11-86 | | 3116 | | |
| | | 3-17-86 | | 2345 | | |
| | | 3-27-86 | | 2033 | | |
| | | 4-01-86 | | 2775 | | |
| 62 | VAC-2-RCV-11 | 4-06-86 | | 885 | Minimum pathway leakage | |
| | VAC-2-RCV-12 | 4-13-86 | | 1608 | will be one half of | |
| | | 4-21-86 | | 4503 | penetration leakage. | |
| | | 5-10-86 | | 9795 | | |
| | | 5-13-86 | | 3855 | | |
| | | 5-17-86 | | 940 | | |
| | | 5-19-86 | | 1793 | | |
| | | 5-22-86 | | 3715 | | |
| | | 5-26-86 | | 950 | | |
| | | 6-02-86 | | 3310 | | |
| | | 6-03-86 | | 790 | | |
| | | 6-09-86 | | 2175 | | |
| | | 6-17-86 | | 2790 | | |
| | | 6-24-86 | | 1838 | | |
| | | 7-03-86 | | 4976 | | |
| | | 7-11-86 | | 2008 | | |
| | | 7-21-86 | | 1930 | | |
| | | 7-26-86 | | 3485 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 7-29-86 | | 1793 | | |
| | | 8-05-86 | | 1738 | | |
| | | 8-11-86 | | 711 | | |
| | | 8-20-86 | | 1968 | | |
| | | 8-26-86 | | 2225 | | |
| | | 8-30-86 | | 2805 | | |
| | | 9-02-86 | | 1618 | | |
| | | 9-05-86 | | 2335 | | |
| | | 9-14-86 | | 2838 | | |
| | | 9-18-86 | | 2030 | | |
| | | 9-24-86 | | 1880 | | |
| | | 10-02-86 | | 1375 | | |
| | | 10-07-86 | | 2305 | | |
| | | 10-12-86 | | 1625 | | |
| | | 10-20-86 | | 3490 | | |
| | | 10-25-86 | | 2225 | Minimum pathway leakage | |
| | | 10-29-86 | | 775 | will be one half of | |
| | | 10-31-86 | | 2045 | penetration leakage. | |
| 62 | VAC-2-RCV-11 | 11-04-86 | | 843 | | |
| | VAC-2-RCV-12 | 11-06-86 | | 940 | | |
| | | 11-10-86 | | 782 | | |
| | | 11-11-86 | | 5813 | | |
| | | 11-13-86 | | 755 | | |
| | | 11-18-86 | | 5088 | | |
| | | 11-28-86 | | 3125 | | |
| | | 12-03-86 | | 1450 | | |
| | | 12-08-86 | | 2775 | | |
| | | 12-12-86 | | 5600 | | |
| | | 12-19-86 | | 1785 | | |
| | | 12-26-86 | | 1660 | | |
| | | 12-31-86 | | 1605 | | |
| | | 1-04-87 | | 2057 | | |
| | | 1-12-87 | | 713 | | |
| | | 1-20-87 | | 3563 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 1-26-87 | | 514 | | |
| | | 2-02-87 | | 950 | | |
| | | 2-04-87 | | 718 | | |
| | | 2-08-87 | | 4500 | | |
| | | 2-11-87 | | 700 | | |
| | | 2-15-87 | | 708 | | |
| | | 2-18-87 | | 1420 | | |
| | | 2-24-87 | | 747 | | |
| | | 3-07-87 | | 2675 | | |
| | | 3-10-87 | | 4175 | | |
| | | 3-18-87 | | 1171 | | |
| | | 3-25-87 | | 1565 | | |
| | | 3-31-87 | | 1087 | | |
| | | 6-28-87 | | 2380 | | |
| | | 6-29-87 | | 3873 | | |
| | | 7-06-87 | | 1578 | Minimum pathway leakage will be one half of penetration leakage. | |
| 62 | VAC-2-RCV-11 VAC-2-RCV-12 | 7-07-87 | | 1295 | | |
| | | 7-10-87 | | 1075 | | |
| | | 7-17-87 | | 3143 | | |
| | | 7-26-87 | | 3420 | | |
| | | 8-05-87 | | 2715 | | |
| | | 8-13-87 | | 990 | | |
| | | 8-21-87 | | 2660 | | |
| | | 8-25-87 | | 1553 | | |
| | | 9-01-87 | | 1173 | | |
| | | 9-11-87 | | 1220 | | |
| | | 9-15-87 | | 985 | | |
| | | 9-18-87 | | 3998 | | |
| | | 9-26-87 | | 1140 | | |
| | | 10-04-87 | | 973 | | |
| | | 10-08-87 | | 4248 | | |
| | | 10-18-87 | | 2365 | | |
| | | 10-27-87 | | 3243 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 10-30-87 | | 1113 | | |
| | | 10-31-87 | | 4122 | | |
| | | 11-04-87 | | 4448 | | |
| | | 11-13-87 | | 4890 | | |
| | | 11-19-87 | | 4515 | | |
| | | 11-23-87 | | 1408 | | |
| | | 11-25-87 | | 2968 | | |
| | | 12-01-87 | | 2363 | | |
| | | 12-09-87 | | 3045 | | |
| | | 12-15-87 | | 1115 | | |
| | | 12-19-87 | | 1110 | | |
| | | 12-28-87 | | 920 | | |
| | | 1-06-88 | | 2263 | | |
| | | 1-13-88 | | 2715 | | |
| | | 1-15-88 | | 3520 | | |
| | | 1-23-88 | | 1245 | Minimum pathway leakage will be one half of penetration leakage. | |
| | | 1-31-88 | | 1059 | | |
| | | 2-08-88 | | 2583 | | |
| 62 | VAC-2-RCV-11 | 2-15-88 | | 1195 | | |
| | VAC-2-RCV-12 | 2-23-88 | | 968 | | |
| | | 3-01-88 | | 1668 | | |
| | | 3-08-88 | | 5433 | | |
| | | 3-15-88 | | 2333 | | |
| | | 3-23-88 | | 1905 | | |
| | | 3-28-88 | | 5815 | | |
| | | 4-02-88 | | 389 | | |
| | | 4-08-88 | | 1020 | | |
| | | 4-14-88 | | 1308 | | |
| | | 4-19-88 | | 2413 | | |
| | | 4-26-88 | | 1965 | | |
| | | 5-03-88 | | 5685 | | |
| | | 5-09-88 | | 1178 | | |
| | | 5-15-88 | | 2620 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 62 | VAC-2-RCV-11 | | | | | |
| | VAC-2-RCV-12 | 5-20-88 | | 2580 | | |
| | | 7-21-88 | | 4965 | | |
| | | 8-06-88 | | 6650 | | |
| | | 11-06-88 | | 6420 | | |
| Inboard butterfly valve rotated 180 deg. to seat in accident direction. | | | | | | |
| | | 11-06-88 | | 5598 | | |
| | | 11-08-88 | | 5278 | | |
| | | 11-09-88 | | 4980 | | |
| | | 11-21-88 | | 4900 | | |
| | | 11-22-88 | | 5343 | | |
| | | 4-10-89 | | 3198 | Minimum pathway leakage | |
| | | 3-05-90 | 3715 | | will be one half of | |
| | | 4-06-90 | | 2743 | penetration leakage. | |
| 63 | VAC-2-FCV-662 | | | | | |
| | VAC-2-FCV-663 | | | | | |
| | VAC-2-FCV-664 | 7-12-85 | 127 | 127 | | |
| | | 7-21-85 | | 58 | | |
| | | 7-24-85 | | 319 | | |
| | | 7-30-85 | | 364 | | |
| | | 8-02-85 | | 396 | | |
| | | 8-05-85 | | 321 | | |
| | | 8-07-85 | | 27 | | |
| | | 10-02-85 | | 482 | | |
| | | 2-13-86 | | 235 | | |
| | | 11-11-86 | | 1315 | | |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 4-04-87 | | 188 | | |
| | | 6-16-87 | | 67 | | |
| | | 6-19-87 | | 141 | | |
| | | 6-25-87 | | 273 | | |
| | | 5-27-88 | | 196 | | |
| | | 6-02-88 | | 473 | | |
| | | 6-07-88 | | 752 | | |
| | | 6-10-88 | | 55 | | |
| | | 6-13-88 | | 94 | | |
| | | 6-21-88 | | 124 | | |
| | | 6-24-88 | | 548 | | |
| | | 6-29-88 | | 803 | | |
| | | 7-02-88 | | 630 | | |
| | | 7-08-88 | | 196 | | |
| | | 7-09-88 | | 22 | | |
| | | 7-14-88 | | 113 | | |
| | | 8-07-88 | | 360 | | |
| | | 8-10-88 | | 258 | | |
| | | 8-14-88 | | 66 | | |
| | | 8-19-88 | | 31 | | |
| | | 8-25-88 | | 98 | | |
| | | 8-30-88 | | 104 | | |
| 63 | VAC-2-FCV-662 | 9-04-88 | | 98 | | |
| | VAC-2-FCV-663 | 9-09-88 | | 453 | | |
| | VAC-2-FCV-664 | 9-14-88 | | 1368 | | |
| | | 9-17-88 | | 46 | | |
| | | 11-07-88 | 15998 | | | |
| | | 11 13-88 | | 7770 | | |
| | | 11-15-88 | | 595 | | |
| | | 11-20-88 | | 90 | | |
| | | 11-30-88 | | 510 | | |
| | | 12-02-88 | | 58 | | |
| | | 12-23-88 | | 1128 | | |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | | 1-05-89 | | 633 | | |
| | | 1-20-89 | | 510 | | |
| | | 2-09-89 | | 242 | | |
| | | 2-21-89 | | 603 | | |
| | | 3-10-89 | | 52 | | |
| | | 3-20-89 | | 138 | | |
| | | 4-05-89 | | 305 | | |
| | | 4-14-89 | | 80 | | |
| | | 4-24-89 | | 182 | | |
| | | 5-06-89 | | 24 | | |
| | | 5-20-89 | | 250 | | |
| 63 | VAC-2-FCV-662 | 6-04-89 | | 261 | | |
| | VAC-2-FCV-663 | 6-21-89 | | 180 | | |
| | VAC-2-FCV-664 | 6-30-89 | | 172 | | |
| | | 7-18-89 | | 39 | | |
| | | 8-02-89 | | 67 | | |
| | | 8-15-89 | | 80 | | |
| | | 8-30-89 | | 715 | | |
| | | 9-18-89 | | 58 | | |
| | | 10-03-89 | | 115 | | |
| | | 10-14-89 | | 24 | | |
| | | 11-01-89 | | 12 | | |
| | | 11-05-89 | | 980 | | |
| | | 11-17-89 | | 47 | | |
| | | 12-07-89 | | 91 | | |
| | | 12-29-89 | | 123 | | |
| | | 1-04-90 | | 90 | | |
| | | 1-10-90 | | 89 | | |
| | | 1-31-90 | | 15 | | |
| | | 2-08-90 | | 79 | | |
| | | 2-24-90 | 224 | 224 | | |
| | | 4-01-90 | | 12 | | |
| | | 4-02-90 | | 15 | | |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 68 | VAC-2-FCV-678 | | | | | |
| | VAC-2-FCV-679 | 7-13-85 | | 28 | | |
| | | 9-07-85 | 58 | 58 | 58 | 29 |
| | VAC-2-FCV-678 | | | | | |
| | VAC-2-FCV-679 | 4-08-87 | 21 | 21 | 21 | 21 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | VAC-2-FCV-678<br>VAC-2-FCV-679 | 9-24-88 | 12 | 12 | 12 | 12 |
| | VAC-2-FCV-678<br>VAC-2-FCV-679 | 3-17-90 | 11 | 11 | 11 | 6 |
| 69 | VAC-2-21 | 9-07-85 | | 56 | | |
| | VAC-2-FCV-681 | 9-07-85 | | 141 | | |
| | VAC-2-FCV-681 | 2-14-87 | | 14 | Note 2 | |
| | VAC-2-21 | 4-08-87 | N/P | | | |
| | | 4-17-87 | | 24 | | |
| | VAC-2-FCV-681 | 4-08-87 | 54 | 54 | Note 1 | 54 |
| | VAC-2-21 | 9-24-88 | 35 | 35 | | |
| | VAC-2-FCV-681 | 9-24-88 | 73 | 73 | 73 | 35 |
| | VAC-2-21 | 3-17-90 | N/P | | | |
| | | 4-01-90 | | 18 | | |
| | VAC-2-FCV-681 | 3-17-90 | 23 | 23 | Note 1 | 23 |
| 70 | AXS-2-208 | 9-17-85 | | 2008 | | |
| | AXS-2-26 | 9-17-85 | | 62 | | |
| | AXS-2-208 | 4-08-87 | 1100 | 1100 | | |
| | AXS-2-26 | 4-08-87 | 52 | 52 | 1100 | 52 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | AXS-2-208 | 9-19-88 | N/P | | | |
| | | 10-04-88 | | 976 | | |
| | AXS-2-26 | 9-19-88 | 114 | 114 | Note 1 | 114 |
| | AXS-2-208 | 3-21-90 | 3060 | | | |
| | | 4-02-90 | | 333 | | |
| | AXS-2-26 | 3-21-90 | 61 | 61 | 3060 | 61 |
| 71 | RCS-2-8028 | 9-18-85 | 248 | 248 | | |
| | RCS-2-512 | 9-23-85 | 692 | 692 | 692 | 248 |
| | RCS-2-8028 | 4-30-87 | 88 | 88 | | |
| | 2-512 | 4-03-87 | 401 | | | |
| | | 5-26-87 | | 367 | 401 | 88 |
| | RCS-8029 | 12-03-87 | 55 | | | |
| | | 12-24-97 | | 140 | | |
| | RCS-2-8028 | 10-14-88 | 361 | 361 | | |
| | RCS-2-512 | 10-14-88 | 44 | 44 | 361 | 44 |
| | RCS-2-8028 | 3-09-90 | 56 | 56 | | |
| | RCS-2-512 | 3-09-90 | 109 | | | |
| | | 3-20-90 | | 109 | 109 | 56 |
| 76 | NSS-2-9354A | 9-16-85 | 51 | 51 | | |
| | NSS-2-9354B | 9-16-85 | 30 | 30 | 51 | 30 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 76 | NSS-2-9354A | 5-01-87 | 52 | | | |
| | | 5-14-87 | | 28 | | |
| | NSS-2-9354B | 5-01-87 | 45 | | | |
| | | 5-19-87 | | 279 | 52 | 45 |
| | NSS-2-9354A | 11-11-88 | 18 | | | |
| | | 11-11-88 | | 17 | | |
| | NSS-2-9354B | 11-11-88 | 372 | | | |
| | | 11-11-88 | | 398 | | |
| | | 11-14-88 | | 275 | 372 | 18 |
| | NSS-2-9354B | 2-17-89 | | 20 | | |
| | NSS-2-9354A | 3-20-90 | 20 | | | |
| | | 4-05-90 | | 16 | | |
| | NSS-2-9354B | 3-20-90 | 18 | | | |
| | | 4-05-90 | | 16 | 20 | 18 |
| 76 | RCS-2-8034A | 9-19-85 | 21 | 21 | | |
| | RCS-2-8034B | 9-19-85 | 17 | 17 | 21 | 18 |
| | RCS-2-8034A | 5-01-87 | 61 | | | |
| | | 5-14-87 | | 52 | | |
| | RCS-2-8034B | 5-01-87 | 57 | | | |
| | | 5-14-87 | | 50 | 61 | 57 |
| | RCS-2-8034A | 11-12-88 | 18 | | | |
| | RCS-2-8034B | 11-12-88 | 818 | | | |
| | | 11-14-88 | | 16 | 818 | 18 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | RCS-2-8034A | 3-09-90 | 17 | | | |
| | | 4-09-90 | | 18 | | |
| | RCS-2-8034B | 3-09-90 | 19 | | | |
| | | 4-09-90 | | 19 | 19 | 17 |
| 78 | VAC-2-FCV-238 | 9-09-85 | | 28 | | |
| | VAC-2-FCV-239 | 9-09-239 | | 28 | | |
| | VAC-2-FCV-238 | 4-15-87 | 19 | 19 | | |
| | VAC-2-FCV-239 | 4-15-87 | 19 | 19 | | |
| | VAC-2-FCV-238 | 9-19-88 | 20 | 20 | | |
| | VAC-2-FCV-239 | 9-19-88 | 15 | 15 | | |
| | VAC-2-FCV-238 | 3-06-90 | 20 | 20 | | |
| | VAC-2-FCV-239 | 3-06-90 | 17 | 17 | | |
| 78 | VAC-2-FCV-240 | 9-09-85 | | 12 | | |
| | VAC-2-253 | 9-09-85 | | 17 | | |
| | FAC-2-FCV-240 | 4-15-87 | 17 | 17 | | |
| | VAC-2-253 | 4-15-87 | 20 | 20 | | |
| | VAC-2-FCV-240 | 9-19-88 | 20 | 20 | | |
| | VAC-2-253 | 9-19-88 | 29 | 29 | | |
| | VAC-2-FCV-240 | 3-06-90 | 16 | 16 | | |
| | VAC-2-253 | 3-06-90 | 16 | 16 | 16 | 16 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 79 | FP-2-867 | 9-21-85 | | 150 | | |
| | FP-2-FCV-633 | 9-21-85 | | 219 | | |
| | FP-2-867 | 4-08-87 | 127 | 127 | | |
| | FP-2-FCV-633 | 4-08-87 | 184 | 184 | 184 | 127 |
| | FP-2-867 | 9-21-88 | 16 | 16 | | |
| | FP-2-FCV-633 | 9-22-88 | 421 | 421 | 421 | 16 |
| | FP-2-867 | 3-22-90 | 16 | 16 | | |
| | FP-2-FCV-633 | 3-22-90 | 15454 | | | |
| | | 3-24-90 | | 384 | 15454 | 16 |
| 81 | VAC-2-FCV-658 | 9-18-85 | | 320 | | |
| | VAC-2-FCV-668 | 9-18-85 | | 228 | | |
| | VAC-2-FCV-658 | 4-09-87 | 25 | | | |
| | | 5-06-87 | | 17 | | |
| | VAC-2-FCV-668 | 4-09-87 | 1190 | | | |
| | | 5-06-87 | | 188 | 1190 | 25 |
| | VAC-2-FCV-658 | 11-08-88 | 15 | 15 | | |
| | VAC-2-FCV-668 | 11-10-88 | 234 | 234 | 234 | 15 |
| | VAC-2-FCV-658 | 3-06-90 | 26 | 26 | | |
| | VAC-2-FCV-668 | 3-06-90 | 219 | 219 | 219 | 26 |
| 82 | LWS-2-FCV-696 | 9-05-85 | | 13 | | |
| | LWS-2-FCV-697 | 9-05-85 | | 11 | 13 | 11 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | LWS-2-FCV-696 | 5-05-87 | 42 | 42 | | |
| | LWS-2-FCV-697 | 5-05-87 | 44 | 44 | 44 | 42 |
| | LWS-2-FCV-696 | 9-21-88 | 18 | 18 | | |
| | LWS-2-FCV-697 | 9-21-88 | 18 | 18 | 18 | 18 |
| | LWS-2-FCV-696 | 3-08-90 | 15 | 15 | | |
| | LWS-2-FCV-697 | 3-08-90 | 14 | 14 | 15 | 14 |
| 82 | VAC-2-FCV-698 | 9-10-85 | | 11 | | |
| | VAC-2-FCV-699 | 9-10-85 | | 12 | | |
| | VAC-2-FCV-698 | 5-04-87 | 18 | 18 | | |
| | VAC-2-FCV-699 | 5-05-87 | 23 | 23 | 23 | 18 |
| | VAC-2-FCV-698 | 9-22-88 | 19 | 19 | | |
| | VAC-2-FCV-699 | 9-22-88 | 19 | 19 | 19 | 19 |
| | VAC-2-FCV-698 | 3-08-90 | 13 | 13 | | |
| | VAC-2-FCV-699 | 3-08-90 | 13 | 13 | 13 | 13 |
| 82 | VAC-2-FCV-700 | 9-10-85 | 12 | 12 | | |
| | VAC-2-116 | 9-10-85 | 11 | 11 | 12 | 11 |
| | VAC-2-FCV-700 | 5-04-87 | 17 | 17 | | |
| | VAC-2-116 | 5-04-87 | 19 | 19 | 19 | 17 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| | VAC-2-FCV-700 | 9-22-88 | 16 | 16 | | |
| | VAC-2-116 | 9-22-88 | 18 | 18 | 18 | 16 |
| | VAC-2-FCV-700 | 3-08-90 | 20 | 20 | | |
| | VAC-2-116 | 3-08-90 | 17 | 17 | 20 | 17 |
| 82 | VAC-2-FCV-654 | 9-10-85 | 23 | 23 | | |
| | VAC-2-FCV-655 | 9-10-85 | 26 | 26 | 26 | 23 |
| | VAC-2-FCV-654 | 5-05-87 | 18 | 18 | | |
| | VAC-2-FCV-655 | 5-05-87 | 22 | 22 | 22 | 18 |
| | VAC-2-FCV-654 | 9-22-88 | 13 | 13 | | |
| | VAC-2-FCV-655 | 9-22-88 | 21 | 21 | 21 | 13 |
| | VAC-2-FCV-654 | 3-08-90 | 61 | 61 | | |
| | VAC-2-FCV-655 | 3-08-90 | 62 | 62 | 62 | 61 |
| 83 | VAC-2-FCV-656 | 9-10-85 | 32 | 32 | | |
| | VAC-2-FCV-657 | 9-10-85 | 53 | 53 | 53 | 32 |
| | VAC-2-FCV-656 | 5-05-87 | 18 | 18 | | |
| | VAC-2-FCV-657 | 5-05-87 | 21 | 21 | 21 | 18 |
| | VAC-2-FCV-656 | 9-22-88 | 22 | 22 | | |
| | VAC-2-FCV-657 | 9-22-88 | 19 | 19 | 22 | 19 |
| | VAC-2-FCV-656 | 3-09-90 | 16 | 16 | | |
| | VAC-2-FCV-657 | 3-09-90 | 19 | 19 | 19 | 16 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

LEGEND: N/P - Test volume would not pressurize to test pressure.
Note 1 - Magnitude of leakage could not be determined
Note 2 - Special test.

| Pen. No. | Valve Identity | Date Performed | As Found | As Left | As Found Maximum Pathway Leakage (SCCM) | As Found Minimum Pathway Leakage (SCCM) |
|---|---|---|---|---|---|---|
| 83 | VAC-2-200 | 9-10-85 | 191 | 191 | | |
| | VAC-2-201 | 9-11-85 | 212 | 212 | | |
| | VAC-2-1 | | | | | |
| | VAC-2-2 | 9-11-85 | 108 | 108 | 403 | 108 |
| | VAC-2-200 | 4-09-87 | 268 | 268 | | |
| | VAC-2-201 | 4-09-87 | 209 | 209 | | |
| | VAC-2-1 | | | | | |
| | VAC-2-2 | 4-09-87 | 132 | 132 | 477 | 132 |
| | VAC-2-200 | 9-20-88 | 262 | 262 | | |
| | VAC-2-201 | 9-19-88 | 169 | 169 | | |
| | VAC-2-1 | | | | | |
| | VAC-2-2 | 9-20-88 | 232 | 232 | 431 | 232 |
| | VAC-2-200 | 3-19-90 | 318 | 318 | | |
| | VAC-2-201 | 3-19-90 | 216 | 216 | | |
| | VAC-2-1 | | | | | |
| | VAC-2-2 | 3-19-90 | 98 | 98 | 534 | 98 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| Personnel Airlock | 6-26-85 | 8.283 |
| | 9-28-85 | 13.780 |
| | 2-04-86 | 59.648 |
| | 2-05-86 | 8.142 |
| | 8-04-86 | 3.0144 |
| | 1-27-87 | 2.2240 |
| | 6-19-87 | 13.133 |
| | 12-16-87 | 3.208 |
| | 6-14-88 | 6.288 |
| | 9-07-88 | 1.125 |
| | 11-10-88 | 28.5490 |
| | 5-10-89 | 2.5240 |
| | 11-07-89 | 1.925 |
| | 2-23-90 | 5.907 |
| | 4-06-90 | 7.989 |
| Seals to Personnel Airlock | 6-25-85 | .975 |
| | 7-19-85 | .975 |
| | 7-21-85 | .975 |
| | 7-24-85 | .975 |
| | 7-27-85 | .975 |
| | 7-30-85 | .975 |
| | 8-02-85 | .975 |
| | 8-05-85 | .975 |
| | 8-07-85 | .975 |
| | 8-09-85 | .975 |
| | 8-12-85 | .975 |
| | 8-15-85 | .975 |
| | 8-17-85 | .975 |
| | 8-20-85 | .975 |
| | 8-22-85 | .975 |

## APPENDIX C

HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| | 8-29-85 | .975 |
| | 10-03-85 | .975 |
| Seals to | 10-18-85 | .975 |
| Personnel Airlock | 10-19-85 | .975 |
| (continued) | 10-23-85 | .975 |
| | 10-25-85 | 1.9753 |
| | 11-06-85 | .975 |
| | 11-08-85 | .975 |
| | 11-12-85 | .975 |
| | 11-15-85 | .975 |
| | 11-17-85 | .975 |
| | 11-21-85 | .975 |
| | 11-22-85 | .975 |
| | 11-24-85 | .975 |
| | 11-28-85 | .975 |
| | 11-30-85 | .975 |
| | 12-02-85 | .975 |
| | 12-04-85 | .975 |
| | 12-06-85 | .975 |
| | 12-13-85 | .975 |
| | 12-15-85 | .975 |
| | 12-18-85 | .975 |
| | 2-09-86 | .975 |
| | 2-14-86 | .975 |
| | 2-16-86 | .975 |
| | 3-03-86 | .975 |
| | 3-03-86 | .975 |
| | 3-06-86 | .975 |
| | 3-08-86 | .975 |
| | 3-14-86 | .975 |
| | 3-18-86 | .975 |
| | 3-19-86 | .975 |
| | 3-20-86 | .975 |
| | 3-21-86 | .975 |
| | 3-24-86 | .975 |
| | 3-29-86 | .975 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| Seals to Personnel Airlock (continued) | 4-03-86 | .975 |
| | 4-04-86 | .975 |
| | 4-09-86 | .975 |
| | 4-11-86 | .975 |
| | 6-28-86 | .975 |
| | 8-01-86 | .975 |
| | 10-07-86 | .975 |
| | 6-27-87 | .975 |
| | 7-09-87 | .975 |
| | 10-10-87 | 1.5522 |
| | 10-23-87 | .975 |
| | 12-01-87 | 2.0865 |
| | 12-01-87 | .975 |
| | 12-19-87 | .975 |
| | 12-29-87 | .975 |
| | 12-31-87 | .975 |
| | 3-09-88 | .975 |
| | 8-07-88 | .975 |
| | 9-08-88 | .975 |
| | 11-27-88 | .975 |
| | 12-02-88 | .975 |
| | 12-03-88 | .975 |
| | 4-06-90 | .975 |
| | 4-21-90 | .975 |
| Emergency Airlock | 7-08-85 | 10.589 |
| | 8-31-84 | 12.543 |
| | 4-28-85 | 16.154 |
| | 7-10-85 | 10.589 |
| | 9-26-85 | 15.463 |
| | 2-03-86 | 12.590 |
| | 7-30-86 | 9.245 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| Emergency Airlock (continued) | 1-20-87 | 9.924 |
| | 6-17-87 | 9.516 |
| | 12-09-87 | 7.823 |
| | 6-07-88 | 10.427 |
| | 9-01-88 | 8.849 |
| | 11-11-88 | 9.826 |
| | 5-03-89 | 7.317 |
| | 10-31-89 | 7.725 |
| | 2-27-90 | 8.468 |
| | 4-04-90 | 8.126 |
| Seals to Emergency Airlock | 7-10-85 | .2691 |
| | 7-19-85 | .2769 |
| | 10-03-85 | .0897 |
| | 10-24-85 | .1453 |
| | 10-29-85 | .1073 |
| | 11-02-85 | .0975 |
| | 11-08-85 | .0644 |
| | 1-03-86 | .0722 |
| | 2-07-86 | .0702 |
| | 3-21-86 | .0624 |
| | 7-30-86 | .0741 |
| | 8-05-86 | .0605 |
| | 8-14-86 | .0722 |
| | 1-21-87 | .0846 |
| | 1-28-87 | .9750 |
| | 2-13-87 | .1170 |
| | 2-18-87 | .0795 |
| | 6-25-87 | .1443 |
| | 12-16-87 | .0819 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| | 12-17-87 | .1033 |
| | 12-30-87 | .1060 |
| | 6-08-88 | .1716 |
| | 6-14-88 | .2390 |
| | 6-16-88 | .0733 |
| Seals to Emergency Airlock (continued) | 7-06-88 | .0663 |
| | 9-08-88 | .0670 |
| | 11-22-88 | .0764 |
| | 11-28-88 | .1170 |
| | 11-29-88 | .1240 |
| | 1-26-89 | .0522 |
| | 5-03-89 | .0601 |
| | 5-10-89 | .1287 |
| | 5-25-89 | .0600 |
| | 11-08-89 | .0507 |
| | 11-29-89 | .0546 |
| | 2-23-90 | .0507 |
| | 2-24-90 | .0561 |
| | 2-27-90 | .0522 |
| | 4-13-90 | .0741 |
| Fuel Transfer Tube Seals | 9-26-84 | .4724 |
| | 5-20-85 | .0801 |
| | 9-12-85 | .1170 |
| | 2-07-86 | .1677 |
| | 3-26-87 | .1736 |
| | 6-15-87 | .0858 |
| | 11-12-88 | .0569 |
| | 3-06-90 | .0585 |
| | 4-05-90 | .0585 |

## APPENDIX C

### HISTORY OF LOCAL LEAKAGE TESTS BEGINNING AT AUGUST 1984 CILRT

Type B Leakage

| Component | Date Performed | Leakage in pounds of air per day. |
|---|---|---|
| Equipment Hatch Seals | 7-07-85 | .1404 |
| | 10-02-85 | .2204 |
| | 2-07-86 | .1677 |
| | 3-26-87 | .1735 |
| | 6-23-87 | .1618 |
| | 9-15-88 | .1528 |
| | 11-25-88 | .1852 |
| | 11-26-88 | .1755 |
| | 4-12-89 | .4824 |
| | 3-04-90 | .1716 |
| | 4-20-90 | .0702 |
| Electrical Penetrations (Cummulative) | 6-28-85 | .0163 |
| | 7-14-87 | .0259 |
| | 6-28-89 | .0155 |

# APPENDIX D

## Temperature Stabilization Data

## TEMPERATURE STABILIZATION TREND REPORT

| DATA SET | CLOCK TIME | AVG DRY BULB T (DEG F) | dT/dt 2 hour (F/hr) | d·T/dt· 2 hour (F/hr/hr) | dT/dt 1 hr (F/hr) | dT/dt 4 hr (F/hr) | dT/dt 4 hr-1 hr (F/hr) |
|---|---|---|---|---|---|---|---|
| 1 | 11:15 | 73.069 | - | - | - | - | - |
| 2 | 11:30 | 72.527 | - | - | - | - | - |
| 3 | 11:45 | 72.091 | - | - | - | - | - |
| 4 | 12:00 | 71.746 | - | - | - | - | - |
| 5 | 12:15 | 71.459 | - | - | -1.610 | - | - |
| 6 | 12:30 | 71.407 | - | - | -1.120 | - | - |
| 7 | 12:45 | 71.379 | - | - | -0.712 | - | - |
| 8 | 13:00 | 71.314 | - | - | -0.432 | - | - |
| 9 | 13:15 | 71.235 | -0.917 | - | -0.224 | - | - |
| 10 | 13:30 | 71.151 | -0.688 | 0.229 | -0.256 | - | - |
| 11 | 13:45 | 71.078 | -0.507 | 0.181 | -0.301 | - | - |
| 12 | 14:00 | 71.013 | -0.366 | 0.140 | -0.301 | - | - |
| 13 | 14:15 | 70.943 | -0.258 | 0.108 | -0.292 | - | - |
| 14 | 14:30 | 70.879 | -0.264 | -0.006 | -0.272 | - | - |
| 15 | 14:45 | 70.824 | -0.278 | -0.014 | -0.255 | - | - |
| 16 | 15:00 | 70.765 | -0.274 | 0.003 | -0.247 | - | - |
| 17 | 15:15 | 70.720 | -0.258 | 0.017 | -0.223 | -0.587 | -0.365 |
| 18 | 15:30 | 70.670 | -0.240 | 0.017 | -0.209 | -0.464 | -0.255 |
| 19 | 15:45 | 70.624 | -0.227 | 0.013 | -0.200 | -0.367 | -0.167 |
| 20 | 16:00 | 70.592 | -0.211 | 0.017 | -0.174 | -0.288 | -0.115 |
| 21 | 16:15 | 70.543 | -0.200 | 0.011 | -0.177 | -0.229 | -0.052 |
| 22 | 16:30 | 70.507 | -0.186 | 0.014 | -0.163 | -0.225 | -0.062 |
| 23 | 16:45 | 70.474 | -0.175 | 0.011 | -0.150 | -0.226 | -0.076 |
| 24 | 17:00 | 70.428 | -0.169 | 0.006 | -0.164 | -0.221 | -0.058 |
| 25 | 17:15 | 70.398 | -0.161 | 0.008 | -0.145 | -0.209 | -0.064 |
| 26 | 17:30 | 70.363 | -0.153 | 0.008 | -0.144 | -0.197 | -0.053 |
| 27 | 17:45 | 70.327 | -0.148 | 0.005 | -0.146 | -0.188 | -0.041 |
| 28 | 18:00 | 70.294 | -0.149 | -0.000 | -0.134 | -0.180 | -0.046 |
| 29 | 18:15 | 70.266 | -0.138 | 0.010 | -0.131 | -0.169 | -0.038 |
| 30 | 18:30 | 70.233 | -0.137 | 0.001 | -0.131 | -0.161 | -0.031 |
| 31 | 18:45 | 70.213 | -0.130 | 0.007 | -0.114 | -0.153 | -0.038 |
| 32 | 19:00 | 70.184 | -0.122 | 0.008 | -0.111 | -0.145 | -0.035 |
| 33 | 19:15 | 70.162 | -0.118 | 0.004 | -0.105 | -0.140 | -0.035 |
| 34 | 19:30 | 70.135 | -0.114 | 0.004 | -0.098 | -0.134 | -0.036 |
| 35 | 19:45 | 70.107 | -0.110 | 0.004 | -0.106 | -0.129 | -0.023 |
| 36 | 20:00 | 70.082 | -0.106 | 0.004 | -0.101 | -0.127 | -0.026 |
| 37 | 20:15 | 70.066 | -0.100 | 0.006 | -0.096 | -0.119 | -0.023 |
| 38 | 20:30 | 70.042 | -0.095 | 0.005 | -0.093 | -0.116 | -0.024 |
| 39 | 20:45 | 70.020 | -0.096 | -0.001 | -0.086 | -0.113 | -0.027 |
| 40 | 21:00 | 69.994 | -0.095 | 0.002 | -0.088 | -0.108 | -0.020 |
| 41 | 21:15 | 69.965 | -0.098 | -0.004 | -0.101 | -0.108 | -0.007 |
| 42 | 21:30 | 69.957 | -0.089 | 0.010 | -0.085 | -0.102 | -0.017 |
| 43 | 21:45 | 69.933 | -0.087 | 0.002 | -0.087 | -0.099 | -0.012 |
| 44 | 22:00 | 69.912 | -0.085 | 0.002 | -0.082 | -0.096 | -0.014 |
| 45 | 22:15 | 69.891 | -0.088 | -0.003 | -0.074 | -0.094 | -0.020 |
| 46 | 22:30 | 69.874 | -0.084 | 0.004 | -0.083 | -0.090 | -0.007 |
| 47 | 22:45 | 69.857 | -0.082 | 0.002 | -0.077 | -0.089 | -0.012 |
| 48 | 23:00 | 69.854 | -0.070 | 0.012 | -0.058 | -0.082 | -0.024 |
| 49 | 23:15 | 69.829 | -0.068 | 0.002 | -0.062 | -0.083 | -0.021 |
| 50 | 23:30 | 69.801 | -0.078 | -0.010 | -0.073 | -0.083 | -0.010 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 51 | 23:45 | 69.783 | -0.075 | 0.003 | -0.074 | -0.081 | -0.007 |
| 52 | 00:00 | 69.771 | -0.071 | 0.004 | -0.084 | -0.078 | 0.006 |
| 53 | 00:15 | 69.762 | -0.064 | 0.006 | -0.067 | -0.076 | -0.009 |
| 54 | 00:30 | 69.746 | -0.064 | 0.000 | -0.055 | -0.074 | -0.019 |
| 55 | 00:45 | 69.732 | -0.062 | 0.002 | -0.051 | -0.072 | -0.021 |
| 56 | 01:00 | 69.714 | -0.070 | -0.008 | -0.056 | -0.070 | -0.014 |
| 57 | 01:15 | 69.701 | -0.064 | 0.006 | -0.061 | -0.066 | -0.005 |
| 58 | 01:30 | 69.675 | -0.063 | 0.000 | -0.072 | -0.071 | 0.001 |
| 59 | 01:45 | 69.664 | -0.059 | 0.004 | -0.068 | -0.067 | 0.001 |
| 60 | 02:00 | 69.653 | -0.059 | 0.000 | -0.062 | -0.065 | -0.003 |
| 61 | 02:15 | 69.635 | -0.064 | -0.005 | -0.067 | -0.064 | 0.003 |
| 62 | 02:30 | 69.626 | -0.060 | 0.003 | -0.049 | -0.062 | -0.014 |
| 63 | 02:45 | 69.613 | -0.059 | 0.001 | -0.051 | -0.061 | -0.010 |
| 64 | 03:00 | 69.596 | -0.059 | 0.001 | -0.056 | -0.065 | -0.008 |
| 65 | 03:15 | 69.576 | -0.062 | -0.004 | -0.058 | -0.063 | -0.005 |
| 66 | 03:30 | 69.565 | -0.055 | 0.008 | -0.061 | -0.059 | 0.002 |
| 67 | 03:45 | 69.551 | -0.057 | -0.002 | -0.062 | -0.058 | 0.004 |
| 68 | 04:00 | 69.537 | -0.058 | -0.001 | -0.059 | -0.058 | 0.001 |
| 69 | 04:15 | 69.523 | -0.056 | 0.002 | -0.053 | -0.060 | -0.007 |
| 70 | 04:30 | 69.522 | -0.052 | 0.004 | -0.043 | -0.056 | -0.013 |

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | TTM MEASURED (%/DAY) | TTM CALC. LR (%/DAY) | TTM UCL LR (%/DAY) | MASS PT. LEAKRATE (%/DAY) | MASS PT. UCL LR (%/DAY) |
|---|---|---|---|---|---|---|
| 1 | 11:15 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | 11:30 | -.528 | 0.000 | 0.000 | -.528 | 0.000 |
| 3 | 11:45 | -.209 | 0.000 | 0.000 | -.209 | 0.952 |
| 4 | 12:00 | -.165 | -.119 | 0.966 | -.138 | 0.131 |
| 5 | 12:15 | -.155 | -.090 | 0.490 | -.120 | 0.007 |
| 6 | 12:30 | -.143 | -.075 | 0.362 | -.112 | -.036 |
| 7 | 12:45 | -.031 | -.013 | 0.319 | -.041 | 0.057 |
| 8 | 13:00 | 0.070 | 0.067 | 0.339 | 0.049 | 0.172 |
| 9 | 13:15 | 0.064 | 0.111 | 0.355 | 0.089 | 0.191 |
| 10 | 13:30 | 0.092 | 0.148 | 0.376 | 0.122 | 0.210 |
| 11 | 13:45 | 0.106 | 0.176 | 0.398 | 0.145 | 0.220 |
| 12 | 14:00 | 0.097 | 0.191 | 0.417 | 0.153 | 0.215 |
| 13 | 14:15 | 0.099 | 0.201 | 0.432 | 0.157 | 0.209 |
| 14 | 14:30 | 0.092 | 0.206 | 0.443 | 0.155 | 0.199 |
| 15 | 14:45 | 0.101 | 0.210 | 0.451 | 0.155 | 0.193 |
| 16 | 15:00 | 0.114 | 0.216 | 0.456 | 0.158 | 0.192 |
| 17 | 15:15 | 0.122 | 0.221 | 0.461 | 0.162 | 0.192 |
| 18 | 15:30 | 0.123 | 0.225 | 0.464 | 0.165 | 0.191 |
| 19 | 15:45 | 0.128 | 0.228 | 0.467 | 0.167 | 0.190 |
| 20 | 16:00 | 0.130 | 0.231 | 0.469 | 0.169 | 0.190 |
| 21 | 16:15 | 0.117 | 0.230 | 0.469 | 0.166 | 0.185 |
| 22 | 16:30 | 0.133 | 0.232 | 0.470 | 0.168 | 0.185 |
| 23 | 16:45 | 0.139 | 0.234 | 0.470 | 0.170 | 0.186 |
| 24 | 17:00 | 0.129 | 0.233 | 0.470 | 0.169 | 0.184 |
| 25 | 17:15 | 0.129 | 0.233 | 0.469 | 0.168 | 0.181 |
| 26 | 17:30 | 0.125 | 0.231 | 0.467 | 0.166 | 0.178 |
| 27 | 17:45 | 0.120 | 0.229 | 0.465 | 0.163 | 0.175 |
| 28 | 18:00 | 0.126 | 0.228 | 0.463 | 0.161 | 0.173 |
| 29 | 18:15 | 0.131 | 0.227 | 0.461 | 0.161 | 0.171 |
| 30 | 18:30 | 0.114 | 0.224 | 0.458 | 0.157 | 0.167 |
| 31 | 18:45 | 0.122 | 0.222 | 0.455 | 0.155 | 0.165 |
| 32 | 19:00 | 0.121 | 0.220 | 0.452 | 0.153 | 0.163 |
| 33 | 19:15 | 0.125 | 0.219 | 0.450 | 0.152 | 0.161 |
| 34 | 19:30 | 0.123 | 0.217 | 0.447 | 0.151 | 0.159 |
| 35 | 19:45 | 0.118 | 0.215 | 0.444 | 0.149 | 0.157 |
| 36 | 20:00 | 0.122 | 0.213 | 0.441 | 0.147 | 0.155 |
| 37 | 20:15 | 0.134 | 0.213 | 0.438 | 0.148 | 0.156 |
| 38 | 20:30 | 0.127 | 0.212 | 0.436 | 0.147 | 0.155 |
| 39 | 20:45 | 0.127 | 0.210 | 0.433 | 0.147 | 0.154 |
| 40 | 21:00 | 0.124 | 0.209 | 0.430 | 0.146 | 0.152 |
| 41 | 21:15 | 0.121 | 0.207 | 0.428 | 0.145 | 0.151 |
| 42 | 21:30 | 0.128 | 0.206 | 0.425 | 0.144 | 0.150 |
| 43 | 21:45 | 0.120 | 0.204 | 0.422 | 0.143 | 0.149 |
| 44 | 22:00 | 0.122 | 0.203 | 0.420 | 0.142 | 0.148 |
| 45 | 22:15 | 0.121 | 0.201 | 0.417 | 0.141 | 0.147 |
| 46 | 22:30 | 0.123 | 0.200 | 0.414 | 0.140 | 0.146 |
| 47 | 22:45 | 0.118 | 0.198 | 0.411 | 0.139 | 0.144 |
| 48 | 23:00 | 0.124 | 0.197 | 0.409 | 0.139 | 0.144 |
| 49 | 23:15 | 0.121 | 0.196 | 0.407 | 0.138 | 0.143 |
| 50 | 23:30 | 0.118 | 0.195 | 0.404 | 0.137 | 0.141 |

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|---|---|---|---|---|---|---|
| 51 | 23:45 | 0.113 | 0.193 | 0.401 | 0.135 | 0.140 |
| 52 | 00:00 | 0.115 | 0.191 | 0.398 | 0.134 | 0.139 |
| 53 | 00:15 | 0.115 | 0.190 | 0.396 | 0.133 | 0.138 |
| 54 | 00:30 | 0.114 | 0.188 | 0.393 | 0.132 | 0.136 |
| 55 | 00:45 | 0.116 | 0.187 | 0.391 | 0.131 | 0.135 |
| 56 | 01:00 | 0.113 | 0.185 | 0.388 | 0.130 | 0.134 |
| 57 | 01:15 | 0.111 | 0.183 | 0.386 | 0.128 | 0.133 |
| 58 | 01:30 | 0.111 | 0.182 | 0.383 | 0.127 | 0.132 |
| 59 | 01:45 | 0.105 | 0.180 | 0.380 | 0.126 | 0.130 |
| 60 | 02:00 | 0.109 | 0.178 | 0.378 | 0.124 | 0.129 |
| 61 | 02:15 | 0.106 | 0.177 | 0.375 | 0.123 | 0.128 |
| 62 | 02:30 | 0.110 | 0.175 | 0.373 | 0.122 | 0.127 |
| 63 | 02:45 | 0.106 | 0.174 | 0.370 | 0.121 | 0.126 |
| 64 | 03:00 | 0.102 | 0.172 | 0.368 | 0.120 | 0.124 |
| 65 | 03:15 | 0.098 | 0.170 | 0.365 | 0.118 | 0.123 |
| 66 | 03:30 | 0.102 | 0.169 | 0.363 | 0.117 | 0.121 |
| 67 | 03:45 | 0.098 | 0.167 | 0.360 | 0.115 | 0.120 |
| 68 | 04:00 | 0.098 | 0.165 | 0.358 | 0.114 | 0.119 |
| 69 | 04:15 | 0.096 | 0.164 | 0.355 | 0.112 | 0.117 |
| 70 | 04:30 | 0.099 | 0.162 | 0.353 | 0.111 | 0.116 |

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | AIR MASS (lbm) | PT. TO PT. MASS CHANGE (lbm) | TOTAL MASS CHANGE (lbm) |
|---|---|---|---|---|
| 1 | 11:15 | 818780 | 0 | 0 |
| 2 | 11:30 | 818825 | 45 | 45 |
| 3 | 11:45 | 818815 | -9 | 36 |
| 4 | 12:00 | 818822 | 7 | 42 |
| 5 | 12:15 | 818833 | 11 | 53 |
| 6 | 12:30 | 818841 | 8 | 61 |
| 7 | 12:45 | 818796 | -45 | 16 |
| 8 | 13:00 | 818738 | -58 | -42 |
| 9 | 13:15 | 818736 | -2 | -44 |
| 10 | 13:30 | 818709 | -27 | -71 |
| 11 | 13:45 | 818689 | -20 | -91 |
| 12 | 14:00 | 818689 | -0 | -91 |
| 13 | 14:15 | 818678 | -11 | -102 |
| 14 | 14:30 | 818678 | -0 | -102 |
| 15 | 14:45 | 818659 | -19 | -121 |
| 16 | 15:00 | 818634 | -25 | -146 |
| 17 | 15:15 | 818614 | -20 | -166 |
| 18 | 15:30 | 818601 | -13 | -179 |
| 19 | 15:45 | 818584 | -17 | -196 |
| 20 | 16:00 | 818569 | -15 | -211 |
| 21 | 16:15 | 818581 | 12 | -199 |
| 22 | 16:30 | 818541 | -40 | -239 |
| 23 | 16:45 | 818519 | -21 | -260 |
| 24 | 17:00 | 818528 | 8 | -252 |
| 25 | 17:15 | 818516 | -12 | -264 |
| 26 | 17:30 | 818514 | -2 | -266 |
| 27 | 17:45 | 818513 | -1 | -267 |
| 28 | 18:00 | 818489 | -23 | -290 |
| 29 | 18:15 | 818467 | -22 | -312 |
| 30 | 18:30 | 818498 | 30 | -282 |
| 31 | 18:45 | 818466 | -31 | -313 |
| 32 | 19:00 | 818459 | -7 | -321 |
| 33 | 19:15 | 818438 | -21 | -342 |
| 34 | 19:30 | 818432 | -6 | -348 |
| 35 | 19:45 | 818438 | 6 | -342 |
| 36 | 20:00 | 818416 | -22 | -364 |
| 37 | 20:15 | 818370 | -46 | -410 |
| 38 | 20:30 | 818379 | 9 | -401 |
| 39 | 20:45 | 818370 | -9 | -410 |
| 40 | 21:00 | 818366 | -3 | -413 |
| 41 | 21:15 | 818366 | -0 | -414 |
| 42 | 21:30 | 818331 | -35 | -449 |
| 43 | 21:45 | 818348 | 17 | -432 |
| 44 | 22:00 | 818332 | -16 | -448 |
| 45 | 22:15 | 818326 | -6 | -453 |
| 46 | 22:30 | 818308 | -18 | -472 |
| 47 | 22:45 | 818317 | 9 | -463 |
| 48 | 23:00 | 818281 | -36 | -499 |
| 49 | 23:15 | 818284 | 3 | -496 |
| 50 | 23:30 | 818287 | 3 | -493 |

| | | | | |
|---|---|---|---|---|
| 51 | 23:45 | 818297 | 11 | -483 |
| 52 | 00:00 | 818279 | -19 | -501 |
| 53 | 00:15 | 818268 | -11 | -512 |
| 54 | 00:30 | 818266 | -2 | -514 |
| 55 | 00:45 | 818244 | -22 | -535 |
| 56 | 01:00 | 818248 | 4 | -532 |
| 57 | 01:15 | 818251 | 3 | -529 |
| 58 | 01:30 | 818243 | -9 | -537 |
| 59 | 01:45 | 818260 | 18 | -519 |
| 60 | 02:00 | 818231 | -29 | -548 |
| 61 | 02:15 | 818236 | 5 | -543 |
| 62 | 02:30 | 818209 | -27 | -571 |
| 63 | 02:45 | 818222 | 12 | -558 |
| 64 | 03:00 | 818234 | 13 | -545 |
| 65 | 03:15 | 818244 | 10 | -536 |
| 66 | 03:30 | 818213 | -31 | -567 |
| 67 | 03:45 | 818226 | 13 | -554 |
| 68 | 04:00 | 818218 | -8 | -562 |
| 69 | 04:15 | 818222 | 4 | -558 |
| 70 | 04:30 | 818199 | -23 | -581 |

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | CONTAIN. PRESSURE (psia) | VAPOR PRESSURE (psia) | AIR PRESSURE (psia) | AVG. DRY BULB TEMP (DEG F) |
|---|---|---|---|---|---|
| 1 | 11:15 | 63.5648 | 0.1905 | 63.374 | 73.069 |
| 2 | 11:30 | 63.5039 | 0.1906 | 63.313 | 72.527 |
| 3 | 11:45 | 63.4530 | 0.1923 | 63.261 | 72.091 |
| 4 | 12:00 | 63.4123 | 0.1921 | 63.220 | 71.746 |
| 5 | 12:15 | 63.3770 | 0.1901 | 63.187 | 71.459 |
| 6 | 12:30 | 63.3725 | 0.1912 | 63.181 | 71.407 |
| 7 | 12:45 | 63.3639 | 0.1894 | 63.175 | 71.379 |
| 8 | 13:00 | 63.3513 | 0.1890 | 63.162 | 71.314 |
| 9 | 13:15 | 63.3413 | 0.1885 | 63.153 | 71.235 |
| 10 | 13:30 | 63.3302 | 0.1895 | 63.141 | 71.151 |
| 11 | 13:45 | 63.3211 | 0.1906 | 63.131 | 71.078 |
| 12 | 14:00 | 63.3126 | 0.1899 | 63.123 | 71.013 |
| 13 | 14:15 | 63.3040 | 0.1905 | 63.114 | 70.943 |
| 14 | 14:30 | 63.2959 | 0.1901 | 63.106 | 70.879 |
| 15 | 14:45 | 63.2884 | 0.1905 | 63.098 | 70.824 |
| 16 | 15:00 | 63.2803 | 0.1913 | 63.089 | 70.765 |
| 17 | 15:15 | 63.2723 | 0.1902 | 63.082 | 70.720 |
| 18 | 15:30 | 63.2647 | 0.1896 | 63.075 | 70.670 |
| 19 | 15:45 | 63.2587 | 0.1903 | 63.068 | 70.624 |
| 20 | 16:00 | 63.2531 | 0.1898 | 63.063 | 70.592 |
| 21 | 16:15 | 63.2481 | 0.1896 | 63.058 | 70.543 |
| 22 | 16:30 | 63.2416 | 0.1904 | 63.051 | 70.507 |
| 23 | 16:45 | 63.2365 | 0.1910 | 63.046 | 70.474 |
| 24 | 17:00 | 63.2315 | 0.1908 | 63.041 | 70.428 |
| 25 | 17:15 | 63.2264 | 0.1902 | 63.036 | 70.398 |
| 26 | 17:30 | 63.2224 | 0.1905 | 63.032 | 70.363 |
| 27 | 17:45 | 63.2184 | 0.1908 | 63.028 | 70.327 |
| 28 | 18:00 | 63.2129 | 0.1910 | 63.022 | 70.294 |
| 29 | 18:15 | 63.2078 | 0.1910 | 63.017 | 70.266 |
| 30 | 18:30 | 63.2058 | 0.1906 | 63.015 | 70.233 |
| 31 | 18:45 | 63.2013 | 0.1908 | 63.010 | 70.213 |
| 32 | 19:00 | 63.1962 | 0.1899 | 63.006 | 70.184 |
| 33 | 19:15 | 63.1927 | 0.1906 | 63.002 | 70.162 |
| 34 | 19:30 | 63.1897 | 0.1912 | 62.998 | 70.135 |
| 35 | 19:45 | 63.1862 | 0.1906 | 62.996 | 70.107 |
| 36 | 20:00 | 63.1822 | 0.1912 | 62.991 | 70.082 |
| 37 | 20:15 | 63.1776 | 0.1921 | 62.986 | 70.066 |
| 38 | 20:30 | 63.1741 | 0.1908 | 62.983 | 70.042 |
| 39 | 20:45 | 63.1711 | 0.1910 | 62.980 | 70.020 |
| 40 | 21:00 | 63.1676 | 0.1908 | 62.977 | 69.994 |
| 41 | 21:15 | 63.1640 | 0.1908 | 62.973 | 69.965 |
| 42 | 21:30 | 63.1610 | 0.1914 | 62.970 | 69.957 |
| 43 | 21:45 | 63.1590 | 0.1909 | 62.968 | 69.933 |
| 44 | 22:00 | 63.1560 | 0.1916 | 62.964 | 69.912 |
| 45 | 22:15 | 63.1525 | 0.1911 | 62.961 | 69.891 |
| 46 | 22:30 | 63.1499 | 0.1919 | 62.958 | 69.874 |
| 47 | 22:45 | 63.1479 | 0.1913 | 62.957 | 69.857 |
| 48 | 23:00 | 63.1449 | 0.1913 | 62.954 | 69.854 |
| 49 | 23:15 | 63.1424 | 0.1916 | 62.951 | 69.829 |
| 50 | 23:30 | 63.1389 | 0.1912 | 62.948 | 69.801 |

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|---|---|---|---|---|---|
| 51 | 23:45 | 63.1368 | 0.1906 | 62.946 | 69.783 |
| 52 | 00:00 | 63.1343 | 0.1909 | 62.943 | 69.771 |
| 53 | 00:15 | 63.1328 | 0.1913 | 62.942 | 69.762 |
| 54 | 00:30 | 63.1303 | 0.1908 | 62.940 | 69.746 |
| 55 | 00:45 | 63.1273 | 0.1911 | 62.936 | 69.732 |
| 56 | 01:00 | 63.1258 | 0.1914 | 62.934 | 69.714 |
| 57 | 01:15 | 63.1232 | 0.1902 | 62.933 | 69.701 |
| 58 | 01:30 | 63.1202 | 0.1910 | 62.929 | 69.675 |
| 59 | 01:45 | 63.1187 | 0.1894 | 62.929 | 69.664 |
| 60 | 02:00 | 63.1172 | 0.1915 | 62.926 | 69.653 |
| 61 | 02:15 | 63.1152 | 0.1912 | 62.924 | 69.635 |
| 62 | 02:30 | 63.1117 | 0.1908 | 62.921 | 69.626 |
| 63 | 02:45 | 63.1107 | 0.1904 | 62.920 | 69.613 |
| 64 | 03:00 | 63.1097 | 0.1904 | 62.919 | 69.596 |
| 65 | 03:15 | 63.1071 | 0.1895 | 62.918 | 69.576 |
| 66 | 03:30 | 63.1041 | 0.1902 | 62.914 | 69.565 |
| 67 | 03:45 | 63.1036 | 0.1903 | 62.913 | 69.551 |
| 68 | 04:00 | 63.1016 | 0.1906 | 62.911 | 69.537 |
| 69 | 04:15 | 63.1006 | 0.1909 | 62.910 | 69.523 |
| 70 | 04:30 | 63.0986 | 0.1908 | 62.908 | 69.522 |

********** ILRT TREND REPORT **********

| DATA SET | DEW CELL 1 (°F) | DEW CELL 2 (°F) | DEW CELL 3 (°F) | DEW CELL 4 (°F) | DEW CELL 5 (°F) | DEW CELL 6 (°F) |
|---|---|---|---|---|---|---|
| 1 | 57.865 | 58.477 | 49.708 | 45.372 | 45.178 | 44.496 |
| 2 | 58.335 | 57.730 | 50.083 | 45.408 | 45.262 | 44.572 |
| 3 | 58.250 | 58.308 | 50.441 | 45.568 | 45.349 | 44.772 |
| 4 | 58.696 | 58.053 | 50.013 | 45.652 | 45.384 | 44.703 |
| 5 | 58.598 | 56.979 | 49.827 | 45.748 | 45.445 | 44.792 |
| 6 | 58.291 | 57.612 | 50.012 | 45.971 | 45.475 | 44.949 |
| 7 | 58.221 | 56.640 | 49.871 | 45.988 | 45.518 | 45.076 |
| 8 | 57.499 | 57.150 | 49.723 | 46.089 | 45.556 | 45.163 |
| 9 | 57.391 | 56.839 | 49.702 | 46.159 | 45.721 | 45.192 |
| 10 | 57.598 | 56.942 | 50.064 | 46.228 | 45.665 | 45.254 |
| 11 | 58.003 | 57.194 | 49.945 | 46.244 | 45.855 | 45.237 |
| 12 | 57.469 | 57.270 | 49.845 | 46.313 | 45.919 | 45.332 |
| 13 | 57.727 | 57.220 | 50.016 | 46.365 | 45.884 | 45.326 |
| 14 | 57.673 | 57.067 | 49.858 | 46.424 | 45.889 | 45.428 |
| 15 | 57.766 | 57.266 | 49.700 | 46.482 | 45.979 | 45.481 |
| 16 | 57.824 | 57.543 | 49.833 | 46.505 | 45.977 | 45.565 |
| 17 | 57.101 | 57.519 | 49.794 | 46.568 | 46.197 | 45.571 |
| 18 | 57.719 | 56.898 | 49.218 | 46.666 | 46.141 | 45.660 |
| 19 | 57.307 | 57.331 | 49.650 | 46.730 | 46.296 | 45.631 |
| 20 | 57.041 | 57.139 | 49.707 | 46.826 | 46.347 | 45.690 |
| 21 | 57.063 | 57.231 | 49.469 | 46.803 | 46.340 | 45.634 |
| 22 | 56.741 | 57.356 | 50.054 | 46.925 | 46.455 | 45.921 |
| 23 | 57.493 | 57.189 | 49.731 | 46.987 | 46.559 | 45.779 |
| 24 | 57.263 | 57.339 | 49.481 | 47.084 | 46.539 | 45.951 |
| 25 | 57.051 | 57.275 | 49.288 | 47.177 | 46.646 | 45.922 |
| 26 | 57.109 | 57.223 | 49.385 | 47.256 | 46.579 | 46.003 |
| 27 | 57.029 | 57.350 | 49.401 | 47.354 | 46.720 | 46.072 |
| 28 | 57.254 | 57.127 | 49.446 | 47.430 | 46.737 | 46.104 |
| 29 | 57.144 | 57.196 | 49.330 | 47.502 | 46.847 | 46.197 |
| 30 | 56.758 | 57.225 | 49.339 | 47.647 | 46.946 | 46.205 |
| 31 | 57.074 | 57.026 | 49.394 | 47.648 | 46.908 | 46.183 |
| 32 | 56.965 | 56.660 | 48.986 | 47.753 | 47.039 | 46.362 |
| 33 | 56.697 | 57.083 | 49.295 | 47.802 | 46.998 | 46.423 |
| 34 | 56.858 | 57.302 | 49.400 | 47.750 | 47.082 | 46.286 |
| 35 | 56.637 | 56.846 | 49.385 | 47.932 | 47.171 | 46.630 |
| 36 | 56.861 | 56.945 | 49.530 | 47.923 | 47.126 | 46.476 |
| 37 | 56.799 | 57.234 | 49.775 | 48.054 | 47.224 | 46.550 |
| 38 | 56.732 | 56.636 | 49.473 | 48.077 | 47.308 | 46.630 |
| 39 | 56.738 | 56.700 | 49.534 | 48.094 | 47.335 | 46.650 |
| 40 | 56.637 | 56.721 | 49.334 | 48.214 | 47.396 | 46.716 |
| 41 | 56.689 | 56.601 | 49.356 | 48.211 | 47.438 | 46.757 |
| 42 | 56.588 | 56.802 | 49.614 | 48.242 | 47.543 | 46.777 |
| 43 | 56.665 | 56.539 | 49.472 | 48.266 | 47.526 | 46.736 |
| 44 | 56.707 | 56.768 | 49.496 | 48.266 | 47.619 | 47.009 |
| 45 | 56.521 | 56.634 | 49.418 | 48.376 | 47.570 | 47.030 |
| 46 | 56.524 | 56.765 | 49.835 | 48.474 | 47.584 | 46.928 |
| 47 | 56.541 | 56.619 | 49.491 | 48.394 | 47.740 | 47.056 |
| 48 | 56.521 | 56.564 | 49.577 | 48.397 | 47.723 | 47.077 |
| 49 | 56.568 | 56.729 | 49.459 | 48.439 | 47.811 | 47.084 |
| 50 | 56.471 | 56.422 | 49.549 | 48.507 | 47.831 | 47.123 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 56.126 | 56.378 | 49.472 | 48.533 | 47.827 | 47.213 |
| 52 | 56.198 | 56.448 | 49.491 | 48.553 | 47.944 | 47.229 |
| 53 | 56.285 | 56.526 | 49.566 | 48.568 | 47.900 | 47.177 |
| 54 | 56.271 | 56.164 | 49.446 | 48.652 | 47.946 | 47.374 |
| 55 | 56.256 | 56.413 | 49.386 | 48.613 | 48.063 | 47.393 |
| 56 | 56.129 | 56.488 | 49.632 | 48.678 | 48.059 | 47.464 |
| 57 | 56.160 | 55.886 | 49.317 | 48.692 | 48.167 | 47.427 |
| 58 | 56.172 | 56.163 | 49.557 | 48.716 | 48.135 | 47.544 |
| 59 | 56.053 | 55.700 | 48.973 | 48.747 | 48.201 | 47.428 |
| 60 | 56.095 | 56.259 | 49.662 | 48.794 | 48.310 | 47.650 |
| 61 | 56.179 | 56.152 | 49.525 | 48.848 | 48.265 | 47.473 |
| 62 | 56.129 | 55.963 | 49.426 | 48.822 | 48.323 | 47.689 |
| 63 | 56.080 | 55.976 | 49.160 | 48.825 | 48.304 | 47.602 |
| 64 | 55.950 | 55.838 | 49.308 | 48.913 | 48.405 | 47.734 |
| 65 | 56.042 | 55.424 | 49.008 | 48.869 | 48.400 | 47.789 |
| 66 | 55.891 | 55.909 | 49.101 | 48.930 | 48.486 | 47.741 |
| 67 | 55.854 | 55.804 | 49.365 | 48.991 | 48.428 | 47.732 |
| 68 | 55.903 | 55.926 | 49.357 | 48.951 | 48.483 | 47.743 |
| 69 | 56.105 | 55.799 | 49.411 | 49.026 | 48.568 | 47.744 |
| 70 | 55.932 | 55.809 | 49.404 | 49.087 | 48.573 | 47.828 |

********** DRY BULB 1-6 DATA **********

| DATA SET | DRY BULB 1 (°F) | DRY BULB 2 (°F) | DRY BULB 3 (°F) | DRY BULB 4 (°F) | DRY BULB 5 (°F) | DRY BULB 6 (°F) |
|---|---|---|---|---|---|---|
| 1 | 81.971 | 81.903 | 81.852 | 81.941 | 81.472 | 81.001 |
| 2 | 80.960 | 80.889 | 80.793 | 80.960 | 80.561 | 80.101 |
| 3 | 80.081 | 80.073 | 80.004 | 80.136 | 79.788 | 79.275 |
| 4 | 79.388 | 79.374 | 79.307 | 79.438 | 79.158 | 78.616 |
| 5 | 78.834 | 78.811 | 78.718 | 78.862 | 78.640 | 78.115 |
| 6 | 78.324 | 78.385 | 78.260 | 78.430 | 78.218 | 77.700 |
| 7 | 77.899 | 77.998 | 77.894 | 78.065 | 77.851 | 77.349 |
| 8 | 77.580 | 77.670 | 77.516 | 77.720 | 77.533 | 77.046 |
| 9 | 77.265 | 77.362 | 77.227 | 77.374 | 77.244 | 76.722 |
| 10 | 76.979 | 77.084 | 76.904 | 77.104 | 76.971 | 76.475 |
| 11 | 76.683 | 76.817 | 76.623 | 76.820 | 76.727 | 76.226 |
| 12 | 76.440 | 76.564 | 76.406 | 76.568 | 76.498 | 76.007 |
| 13 | 76.202 | 76.326 | 76.174 | 76.362 | 76.303 | 75.804 |
| 14 | 76.017 | 76.126 | 75.984 | 76.149 | 76.103 | 75.619 |
| 15 | 75.802 | 75.958 | 75.784 | 75.930 | 75.915 | 75.439 |
| 16 | 75.619 | 75.752 | 75.614 | 75.772 | 75.769 | 75.282 |
| 17 | 75.451 | 75.610 | 75.422 | 75.601 | 75.610 | 75.111 |
| 18 | 75.289 | 75.465 | 75.267 | 75.460 | 75.485 | 74.975 |
| 19 | 75.146 | 75.289 | 75.099 | 75.299 | 75.349 | 74.855 |
| 20 | 75.009 | 75.178 | 74.989 | 75.181 | 75.239 | 74.720 |
| 21 | 74.847 | 75.000 | 74.858 | 75.041 | 75.116 | 74.597 |
| 22 | 74.754 | 74.908 | 74.742 | 74.919 | 74.997 | 74.479 |
| 23 | 74.610 | 74.803 | 74.630 | 74.815 | 74.890 | 74.368 |
| 24 | 74.504 | 74.644 | 74.499 | 74.687 | 74.772 | 74.256 |
| 25 | 74.394 | 74.589 | 74.389 | 74.574 | 74.665 | 74.153 |
| 26 | 74.287 | 74.467 | 74.264 | 74.465 | 74.565 | 74.052 |
| 27 | 74.186 | 74.377 | 74.160 | 74.362 | 74.462 | 73.968 |
| 28 | 74.073 | 74.241 | 74.096 | 74.272 | 74.351 | 73.873 |
| 29 | 73.983 | 74.128 | 73.985 | 74.163 | 74.247 | 73.785 |
| 30 | 73.925 | 74.037 | 73.902 | 74.084 | 74.148 | 73.701 |
| 31 | 73.796 | 73.974 | 73.828 | 73.996 | 74.076 | 73.643 |
| 32 | 73.751 | 73.924 | 73.729 | 73.884 | 74.003 | 73.536 |
| 33 | 73.658 | 73.870 | 73.663 | 73.844 | 73.979 | 73.465 |
| 34 | 73.580 | 73.785 | 73.580 | 73.770 | 73.924 | 73.414 |
| 35 | 73.490 | 73.669 | 73.498 | 73.667 | 73.860 | 73.324 |
| 36 | 73.410 | 73.577 | 73.432 | 73.620 | 73.757 | 73.268 |
| 37 | 73.374 | 73.565 | 73.368 | 73.559 | 73.725 | 73.193 |
| 38 | 73.291 | 73.469 | 73.295 | 73.487 | 73.646 | 73.127 |
| 39 | 73.219 | 73.361 | 73.225 | 73.426 | 73.573 | 73.101 |
| 40 | 73.168 | 73.272 | 73.127 | 73.350 | 73.510 | 73.022 |
| 41 | 73.083 | 73.234 | 73.049 | 73.274 | 73.455 | 72.946 |
| 42 | 73.053 | 73.181 | 73.008 | 73.226 | 73.405 | 72.885 |
| 43 | 72.973 | 73.121 | 72.943 | 73.153 | 73.336 | 72.847 |
| 44 | 72.932 | 73.103 | 72.883 | 73.094 | 73.289 | 72.789 |
| 45 | 72.871 | 73.033 | 72.811 | 73.040 | 73.240 | 72.718 |
| 46 | 72.795 | 73.008 | 72.746 | 72.976 | 73.170 | 72.666 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 47 | 72.741 | 72.944 | 72.680 | 72.940 | 73.112 | 72.616 |
| 48 | 72.726 | 72.911 | 72.641 | 72.901 | 73.072 | 72.566 |
| 49 | 72.699 | 72.831 | 72.607 | 72.814 | 73.019 | 72.499 |
| 50 | 72.602 | 72.802 | 72.525 | 72.734 | 72.975 | 72.465 |
| 51 | 72.540 | 72.753 | 72.508 | 72.676 | 72.932 | 72.399 |
| 52 | 72.517 | 72.671 | 72.451 | 72.619 | 72.865 | 72.358 |
| 53 | 72.453 | 72.660 | 72.425 | 72.589 | 72.825 | 72.320 |
| 54 | 72.421 | 72.613 | 72.372 | 72.580 | 72.798 | 72.248 |
| 55 | 72.383 | 72.572 | 72.309 | 72.555 | 72.723 | 72.221 |
| 56 | 72.335 | 72.486 | 72.244 | 72.520 | 72.644 | 72.193 |
| 57 | 72.302 | 72.465 | 72.216 | 72.467 | 72.615 | 72.116 |
| 58 | 72.186 | 72.375 | 72.192 | 72.410 | 72.564 | 72.088 |
| 59 | 72.187 | 72.290 | 72.166 | 72.396 | 72.506 | 72.056 |
| 60 | 72.161 | 72.262 | 72.139 | 72.337 | 72.444 | 72.007 |
| 61 | 72.137 | 72.265 | 72.093 | 72.271 | 72.378 | 71.969 |
| 62 | 72.108 | 72.226 | 72.071 | 72.256 | 72.349 | 71.914 |
| 63 | 72.062 | 72.227 | 72.033 | 72.193 | 72.316 | 71.890 |
| 64 | 71.984 | 72.142 | 71.995 | 72.151 | 72.277 | 71.858 |
| 65 | 71.948 | 72.074 | 71.958 | 72.145 | 72.241 | 71.824 |
| 66 | 71.966 | 72.064 | 71.894 | 72.116 | 72.189 | 71.797 |
| 67 | 71.847 | 72.085 | 71.873 | 72.055 | 72.164 | 71.759 |
| 68 | 71.847 | 72.038 | 71.812 | 72.023 | 72.119 | 71.728 |
| 69 | 71.832 | 72.004 | 71.778 | 71.984 | 72.068 | 71.704 |
| 70 | 71.841 | 71.977 | 71.739 | 71.962 | 72.044 | 71.678 |

********** DRY BULB 7-12 DATA **********

| DATA SET | DRY BULB 7 (°F) | DRY BULB 8 (°F) | DRY BULB 9 (°F) | DRY BULB 10 (°F) | DRY BULB 11 (°F) | DRY BULB 12 (°F) |
|---|---|---|---|---|---|---|
| 1 | 80.883 | 80.603 | 73.298 | 72.743 | 72.468 | 72.981 |
| 2 | 80.049 | 79.718 | 72.689 | 72.117 | 71.804 | 72.273 |
| 3 | 79.254 | 79.019 | 72.190 | 71.646 | 71.374 | 71.780 |
| 4 | 78.663 | 78.460 | 71.650 | 71.377 | 71.043 | 71.501 |
| 5 | 78.186 | 77.958 | 71.357 | 71.112 | 70.745 | 71.244 |
| 6 | 77.800 | 77.557 | 71.289 | 71.032 | 70.550 | 71.186 |
| 7 | 77.461 | 77.229 | 71.319 | 71.084 | 70.614 | 71.258 |
| 8 | 77.151 | 76.942 | 71.340 | 71.095 | 70.642 | 71.276 |
| 9 | 76.881 | 76.669 | 71.365 | 71.055 | 70.669 | 71.275 |
| 10 | 76.641 | 76.425 | 71.365 | 71.038 | 70.680 | 71.250 |
| 11 | 76.409 | 76.184 | 71.324 | 71.083 | 70.674 | 71.234 |
| 12 | 76.196 | 75.959 | 71.308 | 71.072 | 70.646 | 71.211 |
| 13 | 75.987 | 75.778 | 71.269 | 71.035 | 70.619 | 71.176 |
| 14 | 75.804 | 75.592 | 71.237 | 70.976 | 70.573 | 71.153 |
| 15 | 75.643 | 75.421 | 71.202 | 70.996 | 70.568 | 71.130 |
| 16 | 75.463 | 75.273 | 71.186 | 70.971 | 70.559 | 71.098 |
| 17 | 75.323 | 75.114 | 71.145 | 70.935 | 70.529 | 71.081 |
| 18 | 75.181 | 74.989 | 71.119 | 70.898 | 70.494 | 71.046 |
| 19 | 75.044 | 74.881 | 71.093 | 70.898 | 70.460 | 70.996 |
| 20 | 74.931 | 74.740 | 71.066 | 70.889 | 70.459 | 70.968 |
| 21 | 74.791 | 74.623 | 71.023 | 70.843 | 70.436 | 70.941 |
| 22 | 74.691 | 74.499 | 71.009 | 70.806 | 70.401 | 70.906 |
| 23 | 74.566 | 74.383 | 70.974 | 70.797 | 70.361 | 70.895 |
| 24 | 74.446 | 74.266 | 70.942 | 70.761 | 70.324 | 70.857 |
| 25 | 74.346 | 74.160 | 70.918 | 70.756 | 70.298 | 70.819 |
| 26 | 74.275 | 74.054 | 70.892 | 70.739 | 70.283 | 70.791 |
| 27 | 74.150 | 73.967 | 70.864 | 70.709 | 70.269 | 70.765 |
| 28 | 74.057 | 73.860 | 70.843 | 70.663 | 70.228 | 70.723 |
| 29 | 73.971 | 73.754 | 70.809 | 70.651 | 70.163 | 70.735 |
| 30 | 73.880 | 73.678 | 70.793 | 70.625 | 70.161 | 70.698 |
| 31 | 73.808 | 73.619 | 70.750 | 70.600 | 70.149 | 70.669 |
| 32 | 73.732 | 73.526 | 70.730 | 70.587 | 70.134 | 70.663 |
| 33 | 73.634 | 73.455 | 70.710 | 70.552 | 70.143 | 70.623 |
| 34 | 73.556 | 73.361 | 70.666 | 70.518 | 70.076 | 70.626 |
| 35 | 73.487 | 73.301 | 70.648 | 70.510 | 70.051 | 70.571 |
| 36 | 73.399 | 73.248 | 70.617 | 70.486 | 70.054 | 70.561 |
| 37 | 73.339 | 73.168 | 70.596 | 70.451 | 70.021 | 70.546 |
| 38 | 73.283 | 73.097 | 70.567 | 70.440 | 70.022 | 70.536 |
| 39 | 73.208 | 73.056 | 70.549 | 70.402 | 70.007 | 70.518 |
| 40 | 73.149 | 72.984 | 70.521 | 70.394 | 69.947 | 70.495 |
| 41 | 73.077 | 72.937 | 70.494 | 70.372 | 69.944 | 70.457 |
| 42 | 73.027 | 72.900 | 70.483 | 70.344 | 69.934 | 70.448 |
| 43 | 72.956 | 72.842 | 70.463 | 70.327 | 69.926 | 70.422 |
| 44 | 72.892 | 72.782 | 70.443 | 70.320 | 69.883 | 70.399 |
| 45 | 72.834 | 72.729 | 70.417 | 70.280 | 69.870 | 70.369 |
| 46 | 72.784 | 72.692 | 70.402 | 70.282 | 69.847 | 70.358 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 47 | 72.728 | 72.645 | 70.378 | 70.275 | 69.824 | 70.356 |
| 48 | 72.679 | 72.613 | 70.361 | 70.259 | 69.810 | 70.303 |
| 49 | 72.619 | 72.573 | 70.335 | 70.253 | 69.796 | 70.311 |
| 50 | 72.567 | 72.506 | 70.304 | 70.224 | 69.775 | 70.278 |
| 51 | 72.512 | 72.470 | 70.291 | 70.225 | 69.747 | 70.263 |
| 52 | 72.473 | 72.428 | 70.268 | 70.207 | 69.738 | 70.266 |
| 53 | 72.422 | 72.380 | 70.265 | 70.187 | 69.751 | 70.222 |
| 54 | 72.377 | 72.338 | 70.246 | 70.184 | 69.757 | 70.224 |
| 55 | 72.340 | 72.276 | 70.219 | 70.159 | 69.761 | 70.204 |
| 56 | 72.300 | 72.222 | 70.221 | 70.173 | 69.747 | 70.176 |
| 57 | 72.245 | 72.219 | 70.202 | 70.190 | 69.732 | 70.153 |
| 58 | 72.195 | 72.171 | 70.163 | 70.188 | 69.708 | 70.137 |
| 59 | 72.140 | 72.134 | 70.161 | 70.173 | 69.670 | 70.120 |
| 60 | 72.111 | 72.082 | 70.137 | 70.161 | 69.657 | 70.112 |
| 61 | 72.059 | 72.044 | 70.130 | 70.141 | 69.659 | 70.100 |
| 62 | 72.030 | 72.012 | 70.120 | 70.141 | 69.651 | 70.082 |
| 63 | 71.995 | 71.957 | 70.109 | 70.120 | 69.639 | 70.066 |
| 64 | 71.955 | 71.917 | 70.095 | 70.108 | 69.581 | 70.048 |
| 65 | 71.937 | 71.884 | 70.086 | 70.082 | 69.570 | 70.030 |
| 66 | 71.884 | 71.823 | 70.051 | 70.077 | 69.580 | 70.004 |
| 67 | 71.852 | 71.772 | 70.047 | 70.062 | 69.577 | 69.987 |
| 68 | 71.824 | 71.731 | 70.031 | 70.057 | 69.543 | 69.970 |
| 69 | 71.777 | 71.684 | 70.021 | 70.036 | 69.517 | 69.970 |
| 70 | 71.763 | 71.658 | 70.022 | 70.028 | 69.490 | 69.947 |

********** DRY BULB 13-18 DATA **********

| DATA SET | DRY BULB 13 (°F) | DRY BULB 14 (°F) | DRY BULB 15 (°F) | DRY BULB 16 (°F) | DRY BULB 17 (°F) | DRY BULB 18 (°F) |
|---|---|---|---|---|---|---|
| 1 | 65.408 | 65.058 | 65.275 | 65.428 | 63.542 | 62.773 |
| 2 | 65.339 | 65.046 | 65.271 | 65.380 | 63.470 | 62.750 |
| 3 | 65.361 | 64.997 | 65.248 | 65.359 | 63.409 | 62.727 |
| 4 | 65.420 | 65.016 | 65.213 | 65.319 | 63.368 | 62.745 |
| 5 | 65.365 | 65.000 | 65.225 | 65.312 | 63.330 | 62.718 |
| 6 | 65.663 | 65.573 | 65.826 | 65.524 | 63.406 | 63.156 |
| 7 | 65.904 | 65.995 | 66.261 | 65.908 | 63.555 | 63.488 |
| 8 | 66.087 | 66.209 | 66.458 | 66.134 | 63.662 | 63.659 |
| 9 | 66.201 | 66.340 | 66.612 | 66.258 | 63.742 | 63.774 |
| 10 | 66.201 | 66.461 | 66.684 | 66.276 | 63.850 | 63.859 |
| 11 | 66.302 | 66.564 | 66.827 | 66.357 | 63.942 | 63.940 |
| 12 | 66.380 | 66.662 | 66.960 | 66.378 | 64.012 | 63.999 |
| 13 | 66.474 | 66.726 | 66.992 | 66.485 | 64.114 | 64.068 |
| 14 | 66.513 | 66.807 | 67.114 | 66.523 | 64.228 | 64.144 |
| 15 | 66.619 | 66.899 | 67.196 | 66.607 | 64.331 | 64.215 |
| 16 | 66.641 | 66.932 | 67.224 | 66.622 | 64.444 | 64.248 |
| 17 | 66.812 | 67.010 | 67.291 | 66.691 | 64.497 | 64.297 |
| 18 | 66.763 | 67.094 | 67.358 | 66.732 | 64.575 | 64.353 |
| 19 | 66.807 | 67.132 | 67.413 | 66.766 | 64.616 | 64.379 |
| 20 | 66.909 | 67.181 | 67.453 | 66.835 | 64.650 | 64.427 |
| 21 | 66.896 | 67.251 | 67.498 | 66.862 | 64.692 | 64.468 |
| 22 | 66.934 | 67.280 | 67.546 | 66.891 | 64.747 | 64.505 |
| 23 | 67.027 | 67.324 | 67.576 | 66.941 | 64.787 | 64.553 |
| 24 | 67.068 | 67.358 | 67.602 | 66.978 | 64.823 | 64.582 |
| 25 | 67.100 | 67.385 | 67.659 | 67.009 | 64.875 | 64.608 |
| 26 | 67.117 | 67.442 | 67.692 | 67.034 | 64.901 | 64.654 |
| 27 | 67.123 | 67.468 | 67.700 | 67.076 | 64.942 | 64.695 |
| 28 | 67.169 | 67.523 | 67.752 | 67.124 | 64.982 | 64.715 |
| 29 | 67.298 | 67.581 | 67.781 | 67.141 | 65.008 | 64.736 |
| 30 | 67.178 | 67.598 | 67.810 | 67.181 | 65.043 | 64.762 |
| 31 | 67.323 | 67.634 | 67.825 | 67.207 | 65.080 | 64.794 |
| 32 | 67.282 | 67.636 | 67.860 | 67.234 | 65.119 | 64.807 |
| 33 | 67.317 | 67.663 | 67.858 | 67.256 | 65.155 | 64.852 |
| 34 | 67.329 | 67.694 | 67.877 | 67.265 | 65.190 | 64.877 |
| 35 | 67.419 | 67.729 | 67.890 | 67.288 | 65.223 | 64.878 |
| 36 | 67.427 | 67.744 | 67.929 | 67.308 | 65.263 | 64.900 |
| 37 | 67.445 | 67.771 | 67.958 | 67.352 | 65.296 | 64.939 |
| 38 | 67.472 | 67.800 | 67.979 | 67.338 | 65.322 | 64.958 |
| 39 | 67.507 | 67.823 | 68.010 | 67.396 | 65.353 | 64.978 |
| 40 | 67.530 | 67.831 | 68.038 | 67.396 | 65.387 | 65.005 |
| 41 | 67.436 | 67.855 | 68.058 | 67.419 | 65.409 | 65.033 |
| 42 | 67.541 | 67.861 | 68.069 | 67.456 | 65.438 | 65.037 |
| 43 | 67.569 | 67.890 | 68.071 | 67.451 | 65.464 | 65.046 |
| 44 | 67.533 | 67.904 | 68.103 | 67.480 | 65.486 | 65.069 |
| 45 | 67.521 | 67.929 | 68.136 | 67.494 | 65.519 | 65.119 |
| 46 | 67.628 | 67.936 | 68.104 | 67.523 | 65.536 | 65.133 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 47 | 67.613 | 67.948 | 68.129 | 67.526 | 65.568 | 65.164 |
| 48 | 67.805 | 67.973 | 68.179 | 67.564 | 65.583 | 65.182 |
| 49 | 67.692 | 67.988 | 68.180 | 67.572 | 65.605 | 65.182 |
| 50 | 67.675 | 68.010 | 68.165 | 67.599 | 65.623 | 65.208 |
| 51 | 67.660 | 68.010 | 68.191 | 67.588 | 65.649 | 65.208 |
| 52 | 67.688 | 68.031 | 68.223 | 67.636 | 65.673 | 65.226 |
| 53 | 67.747 | 68.061 | 68.226 | 67.643 | 65.698 | 65.260 |
| 54 | 67.723 | 68.067 | 68.225 | 67.637 | 65.718 | 65.283 |
| 55 | 67.775 | 68.075 | 68.225 | 67.668 | 65.739 | 65.284 |
| 56 | 67.785 | 68.092 | 68.251 | 67.669 | 65.759 | 65.309 |
| 57 | 67.829 | 68.089 | 68.240 | 67.689 | 65.773 | 65.321 |
| 58 | 67.781 | 68.093 | 68.219 | 67.675 | 65.792 | 65.345 |
| 59 | 67.828 | 68.101 | 68.272 | 67.706 | 65.809 | 65.368 |
| 60 | 67.890 | 68.113 | 68.284 | 67.723 | 65.821 | 65.368 |
| 61 | 67.852 | 68.148 | 68.257 | 67.712 | 65.847 | 65.383 |
| 62 | 67.822 | 68.156 | 68.293 | 67.781 | 65.869 | 65.391 |
| 63 | 67.884 | 68.165 | 68.255 | 67.756 | 65.882 | 65.406 |
| 64 | 67.964 | 68.165 | 68.280 | 67.773 | 65.904 | 65.422 |
| 65 | 67.813 | 68.171 | 68.286 | 67.768 | 65.924 | 65.444 |
| 66 | 67.848 | 68.180 | 68.306 | 67.775 | 65.931 | 65.451 |
| 67 | 67.913 | 68.177 | 68.318 | 67.788 | 65.945 | 65.437 |
| 68 | 67.843 | 68.203 | 68.341 | 67.797 | 65.965 | 65.467 |
| 69 | 67.880 | 68.209 | 68.338 | 67.826 | 65.980 | 65.477 |
| 70 | 67.930 | 68.222 | 68.351 | 67.877 | 66.001 | 65.492 |

********** DRY BULB 19-24 DATA **********

| DATA SET | DRY BULB 19 (°F) | DRY BULB 20 (°F) | DRY BULB 21 (°F) | DRY BULB 22 (°F) | DRY BULB 23 (°F) | DRY BULB 24 (°F) |
|---|---|---|---|---|---|---|
| 1 | 62.748 | 63.000 | 63.429 | 63.610 | 63.479 | 61.700 |
| 2 | 62.692 | 62.956 | 63.333 | 63.565 | 63.398 | 61.698 |
| 3 | 62.661 | 62.928 | 63.320 | 63.531 | 63.385 | 61.663 |
| 4 | 62.619 | 62.912 | 63.293 | 63.511 | 63.328 | 61.669 |
| 5 | 62.620 | 62.886 | 63.258 | 63.485 | 63.287 | 61.677 |
| 6 | 63.201 | 63.224 | 63.679 | 63.504 | 63.349 | 62.503 |
| 7 | 63.490 | 63.456 | 63.957 | 63.604 | 63.487 | 62.878 |
| 8 | 63.655 | 63.610 | 64.137 | 63.676 | 63.584 | 63.053 |
| 9 | 63.732 | 63.742 | 64.283 | 63.761 | 63.645 | 63.232 |
| 10 | 63.862 | 63.862 | 64.300 | 63.807 | 63.761 | 63.450 |
| 11 | 63.945 | 63.961 | 64.387 | 63.858 | 63.842 | 63.586 |
| 12 | 64.048 | 64.057 | 64.503 | 63.909 | 63.911 | 63.737 |
| 13 | 64.080 | 64.140 | 64.581 | 63.960 | 63.960 | 63.816 |
| 14 | 64.172 | 64.227 | 64.541 | 63.996 | 64.007 | 63.935 |
| 15 | 64.198 | 64.299 | 64.518 | 64.050 | 64.050 | 64.027 |
| 16 | 64.279 | 64.367 | 64.541 | 64.085 | 64.114 | 64.100 |
| 17 | 64.353 | 64.427 | 64.602 | 64.102 | 64.157 | 64.161 |
| 18 | 64.375 | 64.480 | 64.639 | 64.126 | 64.215 | 64.234 |
| 19 | 64.462 | 64.532 | 64.717 | 64.154 | 64.270 | 64.311 |
| 20 | 64.485 | 64.579 | 64.785 | 64.193 | 64.321 | 64.390 |
| 21 | 64.503 | 64.630 | 64.865 | 64.244 | 64.372 | 64.401 |
| 22 | 64.576 | 64.669 | 64.892 | 64.277 | 64.428 | 64.505 |
| 23 | 64.625 | 64.720 | 64.929 | 64.308 | 64.483 | 64.564 |
| 24 | 64.621 | 64.758 | 64.976 | 64.347 | 64.527 | 64.592 |
| 25 | 64.660 | 64.820 | 65.013 | 64.395 | 64.581 | 64.677 |
| 26 | 64.720 | 64.852 | 65.049 | 64.408 | 64.616 | 64.700 |
| 27 | 64.727 | 64.897 | 65.092 | 64.434 | 64.656 | 64.726 |
| 28 | 64.762 | 64.933 | 65.133 | 64.465 | 64.709 | 64.770 |
| 29 | 64.791 | 64.975 | 65.159 | 64.506 | 64.749 | 64.857 |
| 30 | 64.839 | 65.020 | 65.191 | 64.537 | 64.790 | 64.857 |
| 31 | 64.839 | 65.068 | 65.228 | 64.579 | 64.825 | 64.915 |
| 32 | 64.869 | 65.103 | 65.257 | 64.631 | 64.865 | 64.946 |
| 33 | 64.898 | 65.139 | 65.290 | 64.645 | 64.875 | 64.965 |
| 34 | 64.956 | 65.176 | 65.321 | 64.689 | 64.904 | 64.990 |
| 35 | 64.975 | 65.202 | 65.342 | 64.715 | 64.942 | 65.031 |
| 36 | 64.982 | 65.226 | 65.373 | 64.750 | 64.956 | 65.129 |
| 37 | 64.988 | 65.255 | 65.403 | 64.784 | 64.990 | 65.141 |
| 38 | 65.002 | 65.296 | 65.440 | 64.808 | 65.022 | 65.126 |
| 39 | 65.020 | 65.329 | 65.460 | 64.827 | 65.042 | 65.133 |
| 40 | 65.054 | 65.356 | 65.493 | 64.860 | 65.077 | 65.255 |
| 41 | 65.078 | 65.382 | 65.519 | 64.889 | 65.109 | 65.176 |
| 42 | 65.152 | 65.412 | 65.556 | 64.923 | 65.126 | 65.252 |
| 43 | 65.150 | 65.449 | 65.551 | 64.949 | 65.153 | 65.289 |
| 44 | 65.130 | 65.469 | 65.596 | 64.976 | 65.173 | 65.249 |
| 45 | 65.182 | 65.498 | 65.620 | 64.994 | 65.193 | 65.289 |
| 46 | 65.206 | 65.522 | 65.626 | 65.029 | 65.211 | 65.278 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 47 | 65.234 | 65.547 | 65.657 | 65.057 | 65.242 | 65.313 |
| 48 | 65.235 | 65.577 | 65.658 | 65.084 | 65.266 | 65.364 |
| 49 | 65.271 | 65.593 | 65.698 | 65.106 | 65.280 | 65.368 |
| 50 | 65.261 | 65.612 | 65.710 | 65.129 | 65.300 | 65.362 |
| 51 | 65.284 | 65.641 | 65.733 | 65.144 | 65.327 | 65.374 |
| 52 | 65.325 | 65.670 | 65.765 | 65.177 | 65.345 | 65.437 |
| 53 | 65.347 | 65.690 | 65.785 | 65.205 | 65.380 | 65.422 |
| 54 | 65.348 | 65.707 | 65.800 | 65.213 | 65.391 | 65.487 |
| 55 | 65.403 | 65.728 | 65.823 | 65.237 | 65.409 | 65.480 |
| 56 | 65.359 | 65.742 | 65.844 | 65.269 | 65.435 | 65.515 |
| 57 | 65.391 | 65.759 | 65.853 | 65.290 | 65.437 | 65.495 |
| 58 | 65.429 | 65.786 | 65.876 | 65.298 | 65.449 | 65.571 |
| 59 | 65.426 | 65.808 | 65.882 | 65.316 | 65.473 | 65.551 |
| 60 | 65.464 | 65.820 | 65.896 | 65.339 | 65.496 | 65.550 |
| 61 | 65.493 | 65.835 | 65.908 | 65.358 | 65.495 | 65.538 |
| 62 | 65.484 | 65.855 | 65.933 | 65.393 | 65.506 | 65.602 |
| 63 | 65.522 | 65.875 | 65.953 | 65.420 | 65.525 | 65.580 |
| 64 | 65.516 | 65.893 | 65.968 | 65.431 | 65.557 | 65.583 |
| 65 | 65.551 | 65.914 | 66.003 | 65.438 | 65.565 | 65.622 |
| 66 | 65.535 | 65.927 | 66.006 | 65.460 | 65.594 | 65.654 |
| 67 | 65.548 | 65.942 | 66.012 | 65.461 | 65.603 | 65.628 |
| 68 | 65.597 | 65.957 | 66.030 | 65.492 | 65.622 | 65.678 |
| 69 | 65.589 | 65.971 | 66.061 | 65.496 | 65.614 | 65.650 |
| 70 | 65.634 | 65.997 | 66.081 | 65.518 | 65.640 | 65.708 |

# APPENDIX E

## ILRT Test Data

********** LEAKAGE RATE DATA **********

| DATA SET | CLOCK TIME | TTM MEASURED (%/DAY) | TTM CALC. LR (%/DAY) | TTM UCL LR (%/DAY) | MASS PT. LEAKRATE (%/DAY) | MASS PT. UCL LR (%/DAY) |
|---|---|---|---|---|---|---|
| 1 | 04:30 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | 04:45 | 0.023 | 0.000 | 0.000 | 0.023 | 0.000 |
| 3 | 05:00 | 0.083 | 0.000 | 0.000 | 0.083 | 0.301 |
| 4 | 05:15 | 0.042 | 0.059 | 0.455 | 0.052 | 0.120 |
| 5 | 05:30 | 0.121 | 0.105 | 0.283 | 0.107 | 0.189 |
| 6 | 05:45 | 0.059 | 0.088 | 0.239 | 0.081 | 0.139 |
| 7 | 06:00 | 0.043 | 0.070 | 0.201 | 0.058 | 0.105 |
| 8 | 06:15 | 0.040 | 0.058 | 0.170 | 0.046 | 0.083 |
| 9 | 06:30 | 0.020 | 0.042 | 0.144 | 0.029 | 0.063 |
| 10 | 06:45 | 0.073 | 0.052 | 0.146 | 0.047 | 0.078 |
| 11 | 07:00 | 0.061 | 0.054 | 0.140 | 0.051 | 0.077 |
| 12 | 07:15 | 0.057 | 0.055 | 0.133 | 0.053 | 0.075 |
| 13 | 07:30 | 0.063 | 0.057 | 0.130 | 0.056 | 0.075 |
| 14 | 07:45 | 0.063 | 0.058 | 0.127 | 0.059 | 0.074 |
| 15 | 08:00 | 0.052 | 0.057 | 0.121 | 0.056 | 0.070 |
| 16 | 08:15 | 0.038 | 0.052 | 0.114 | 0.050 | 0.064 |
| 17 | 08:30 | 0.035 | 0.048 | 0.108 | 0.045 | 0.058 |
| 18 | 08:45 | 0.048 | 0.047 | 0.104 | 0.045 | 0.056 |
| 19 | 09:00 | 0.055 | 0.048 | 0.103 | 0.047 | 0.057 |
| 20 | 09:15 | 0.038 | 0.045 | 0.098 | 0.043 | 0.053 |
| 21 | 09:30 | 0.051 | 0.046 | 0.097 | 0.045 | 0.054 |
| 22 | 09:45 | 0.052 | 0.046 | 0.096 | 0.046 | 0.054 |
| 23 | 10:00 | 0.061 | 0.048 | 0.097 | 0.049 | 0.057 |
| 24 | 10:15 | 0.062 | 0.050 | 0.098 | 0.052 | 0.059 |
| 25 | 10:30 | 0.060 | 0.051 | 0.098 | 0.053 | 0.061 |
| 26 | 10:45 | 0.060 | 0.052 | 0.098 | 0.055 | 0.062 |
| 27 | 11:00 | 0.057 | 0.053 | 0.097 | 0.055 | 0.062 |
| 28 | 11:15 | 0.054 | 0.053 | 0.096 | 0.055 | 0.061 |
| 29 | 11:30 | 0.055 | 0.053 | 0.095 | 0.055 | 0.061 |
| 30 | 11:45 | 0.053 | 0.053 | 0.094 | 0.055 | 0.060 |
| 31 | 12:00 | 0.048 | 0.052 | 0.093 | 0.054 | 0.059 |
| 32 | 12:15 | 0.051 | 0.052 | 0.092 | 0.053 | 0.058 |
| 33 | 12:30 | 0.051 | 0.052 | 0.091 | 0.053 | 0.057 |
| 34 | 12:45 | 0.052 | 0.052 | 0.090 | 0.053 | 0.057 |
| 35 | 13:00 | 0.054 | 0.052 | 0.089 | 0.053 | 0.057 |
| 36 | 13:15 | 0.058 | 0.052 | 0.089 | 0.054 | 0.058 |
| 37 | 13:30 | 0.055 | 0.053 | 0.089 | 0.054 | 0.058 |
| 38 | 13:45 | 0.056 | 0.053 | 0.088 | 0.054 | 0.058 |
| 39 | 14:00 | 0.054 | 0.053 | 0.088 | 0.054 | 0.058 |
| 40 | 14:15 | 0.049 | 0.053 | 0.087 | 0.054 | 0.057 |
| 41 | 14:30 | 0.051 | 0.052 | 0.086 | 0.053 | 0.056 |
| 42 | 14:45 | 0.054 | 0.052 | 0.086 | 0.053 | 0.056 |
| 43 | 15:00 | 0.049 | 0.052 | 0.085 | 0.053 | 0.055 |
| 44 | 15:15 | 0.048 | 0.052 | 0.084 | 0.052 | 0.055 |
| 45 | 15:30 | 0.050 | 0.051 | 0.083 | 0.052 | 0.054 |
| 46 | 15:45 | 0.053 | 0.051 | 0.083 | 0.052 | 0.054 |
| 47 | 16:00 | 0.053 | 0.051 | 0.083 | 0.052 | 0.054 |
| 48 | 16:15 | 0.049 | 0.051 | 0.082 | 0.051 | 0.054 |
| 49 | 16:30 | 0.048 | 0.051 | 0.081 | 0.051 | 0.053 |
| 50 | 16:45 | 0.048 | 0.050 | 0.080 | 0.050 | 0.053 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 17:00 | 0.048 | 0.050 | 0.080 | 0.050 | 0.052 |
| 52 | 17:15 | 0.053 | 0.050 | 0.080 | 0.050 | 0.052 |
| 53 | 17:30 | 0.053 | 0.050 | 0.079 | 0.050 | 0.053 |
| 54 | 17:45 | 0.055 | 0.050 | 0.079 | 0.051 | 0.053 |
| 55 | 18:00 | 0.049 | 0.050 | 0.079 | 0.051 | 0.053 |
| 56 | 18:15 | 0.050 | 0.050 | 0.078 | 0.051 | 0.052 |
| 57 | 18:30 | 0.051 | 0.050 | 0.078 | 0.051 | 0.052 |
| 58 | 18:45 | 0.049 | 0.050 | 0.078 | 0.050 | 0.052 |
| 59 | 19:00 | 0.045 | 0.050 | 0.077 | 0.050 | 0.051 |
| 60 | 19:15 | 0.044 | 0.049 | 0.076 | 0.049 | 0.051 |
| 61 | 19:30 | 0.047 | 0.049 | 0.076 | 0.049 | 0.050 |
| 62 | 19:45 | 0.050 | 0.049 | 0.075 | 0.049 | 0.050 |
| 63 | 20:00 | 0.044 | 0.048 | 0.075 | 0.048 | 0.050 |
| 64 | 20:15 | 0.042 | 0.048 | 0.074 | 0.047 | 0.049 |
| 65 | 20:30 | 0.042 | 0.047 | 0.073 | 0.047 | 0.049 |
| 66 | 20:45 | 0.039 | 0.047 | 0.073 | 0.046 | 0.048 |
| 67 | 21:00 | 0.041 | 0.046 | 0.072 | 0.045 | 0.047 |
| 68 | 21:15 | 0.041 | 0.046 | 0.071 | 0.045 | 0.047 |
| 69 | 21:30 | 0.039 | 0.045 | 0.071 | 0.044 | 0.046 |
| 70 | 21:45 | 0.041 | 0.045 | 0.070 | 0.044 | 0.046 |
| 71 | 22:00 | 0.039 | 0.044 | 0.069 | 0.043 | 0.045 |
| 72 | 22:15 | 0.037 | 0.044 | 0.069 | 0.042 | 0.044 |
| 73 | 22:30 | 0.036 | 0.043 | 0.068 | 0.041 | 0.044 |
| 74 | 22:45 | 0.037 | 0.043 | 0.067 | 0.041 | 0.043 |
| 75 | 23:00 | 0.040 | 0.042 | 0.067 | 0.041 | 0.043 |
| 76 | 23:15 | 0.039 | 0.042 | 0.066 | 0.040 | 0.042 |
| 77 | 23:30 | 0.037 | 0.041 | 0.066 | 0.040 | 0.042 |
| 78 | 23:45 | 0.038 | 0.041 | 0.065 | 0.039 | 0.041 |
| 79 | 00:00 | 0.036 | 0.041 | 0.064 | 0.039 | 0.041 |
| 80 | 00:15 | 0.035 | 0.040 | 0.064 | 0.038 | 0.040 |
| 81 | 00:30 | 0.037 | 0.040 | 0.063 | 0.038 | 0.040 |
| 82 | 00:45 | 0.040 | 0.039 | 0.063 | 0.038 | 0.040 |
| 83 | 01:00 | 0.038 | 0.039 | 0.062 | 0.037 | 0.040 |
| 84 | 01:15 | 0.039 | 0.039 | 0.062 | 0.037 | 0.039 |
| 85 | 01:30 | 0.037 | 0.039 | 0.061 | 0.037 | 0.039 |
| 86 | 01:45 | 0.038 | 0.038 | 0.061 | 0.037 | 0.039 |
| 87 | 02:00 | 0.040 | 0.038 | 0.061 | 0.037 | 0.039 |
| 88 | 02:15 | 0.035 | 0.038 | 0.060 | 0.036 | 0.038 |
| 89 | 02:30 | 0.037 | 0.037 | 0.060 | 0.036 | 0.038 |
| 90 | 02:45 | 0.037 | 0.037 | 0.059 | 0.036 | 0.038 |
| 91 | 03:00 | 0.034 | 0.037 | 0.059 | 0.035 | 0.037 |
| 92 | 03:15 | 0.035 | 0.037 | 0.058 | 0.035 | 0.037 |
| 93 | 03:30 | 0.036 | 0.036 | 0.058 | 0.035 | 0.037 |
| 94 | 03:45 | 0.035 | 0.036 | 0.058 | 0.035 | 0.036 |
| 95 | 04:00 | 0.035 | 0.036 | 0.057 | 0.034 | 0.036 |
| 96 | 04:15 | 0.033 | 0.035 | 0.057 | 0.034 | 0.036 |
| 97 | 04:30 | 0.033 | 0.035 | 0.053 | 0.034 | 0.035 |

********** AIR MASS DATA **********

| DATA SET | CLOCK TIME | AIR MASS (lbm) | PT. TO PT. MASS CHANGE (lbm) | TOTAL MASS CHANGE (lbm) |
|---|---|---|---|---|
| 1 | 04:30 | 818199 | 0 | 0 |
| 2 | 04:45 | 818197 | -2 | -2 |
| 3 | 05:00 | 818185 | -12 | -14 |
| 4 | 05:15 | 818188 | 3 | -11 |
| 5 | 05:30 | 818158 | -30 | -41 |
| 6 | 05:45 | 818174 | 16 | -25 |
| 7 | 06:00 | 818177 | 3 | -22 |
| 8 | 06:15 | 818175 | -2 | -24 |
| 9 | 06:30 | 818186 | 11 | -14 |
| 10 | 06:45 | 818143 | -43 | -56 |
| 11 | 07:00 | 818147 | 4 | -52 |
| 12 | 07:15 | 818145 | -2 | -54 |
| 13 | 07:30 | 818135 | -11 | -64 |
| 14 | 07:45 | 818130 | -5 | -70 |
| 15 | 08:00 | 818137 | 7 | -62 |
| 16 | 08:15 | 818150 | 13 | -49 |
| 17 | 08:30 | 818152 | 2 | -47 |
| 18 | 08:45 | 818129 | -22 | -70 |
| 19 | 09:00 | 818116 | -14 | -84 |
| 20 | 09:15 | 818138 | 23 | -61 |
| 21 | 09:30 | 818112 | -26 | -87 |
| 22 | 09:45 | 818106 | -6 | -94 |
| 23 | 10:00 | 818086 | -20 | -114 |
| 24 | 10:15 | 818077 | -9 | -122 |
| 25 | 10:30 | 818077 | 0 | -122 |
| 26 | 10:45 | 818072 | -5 | -127 |
| 27 | 11:00 | 818073 | 1 | -126 |
| 28 | 11:15 | 818074 | 1 | -125 |
| 29 | 11:30 | 818067 | -7 | -132 |
| 30 | 11:45 | 818067 | 0 | -132 |
| 31 | 12:00 | 818076 | 9 | -123 |
| 32 | 12:15 | 818063 | -13 | -136 |
| 33 | 12:30 | 818060 | -3 | -139 |
| 34 | 12:45 | 818053 | -7 | -146 |
| 35 | 13:00 | 818042 | -11 | -157 |
| 36 | 13:15 | 818025 | -17 | -174 |
| 37 | 13:30 | 818031 | 6 | -168 |
| 38 | 13:45 | 818022 | -10 | -178 |
| 39 | 14:00 | 818024 | 2 | -175 |
| 40 | 14:15 | 818036 | 12 | -163 |
| 41 | 14:30 | 818025 | -11 | -174 |
| 42 | 14:45 | 818012 | -13 | -187 |
| 43 | 15:00 | 818025 | 13 | -174 |
| 44 | 15:15 | 818023 | -3 | -176 |
| 45 | 15:30 | 818013 | -9 | -186 |
| 46 | 15:45 | 817996 | -17 | -203 |
| 47 | 16:00 | 817993 | -4 | -207 |
| 48 | 16:15 | 818003 | 11 | -196 |
| 49 | 16:30 | 818003 | -1 | -196 |
| 50 | 16:45 | 818000 | -2 | -199 |

| | | | | |
|---|---|---|---|---|
| 51 | 17:00 | 817994 | -6 | -205 |
| 52 | 17:15 | 817971 | -24 | -229 |
| 53 | 17:30 | 817962 | -8 | -237 |
| 54 | 17:45 | 817952 | -10 | -247 |
| 55 | 18:00 | 817971 | 19 | -228 |
| 56 | 18:15 | 817964 | -8 | -236 |
| 57 | 18:30 | 817954 | -9 | -245 |
| 58 | 18:45 | 817962 | 8 | -237 |
| 59 | 19:00 | 817979 | 17 | -220 |
| 60 | 19:15 | 817980 | 0 | -219 |
| 61 | 19:30 | 817957 | -22 | -242 |
| 62 | 19:45 | 817941 | -16 | -258 |
| 63 | 20:00 | 817966 | 25 | -233 |
| 64 | 20:15 | 817976 | 10 | -223 |
| 65 | 20:30 | 817971 | -4 | -228 |
| 66 | 20:45 | 817985 | 14 | -214 |
| 67 | 21:00 | 817970 | -15 | -229 |
| 68 | 21:15 | 817963 | -7 | -236 |
| 69 | 21:30 | 817974 | 11 | -225 |
| 70 | 21:45 | 817956 | -19 | -243 |
| 71 | 22:00 | 817968 | 12 | -231 |
| 72 | 22:15 | 817978 | 10 | -222 |
| 73 | 22:30 | 817976 | -1 | -223 |
| 74 | 22:45 | 817966 | -10 | -233 |
| 75 | 23:00 | 817948 | -18 | -251 |
| 76 | 23:15 | 817947 | -1 | -252 |
| 77 | 23:30 | 817957 | 10 | -243 |
| 78 | 23:45 | 817949 | -8 | -250 |
| 79 | 00:00 | 817957 | 9 | -242 |
| 80 | 00:15 | 817960 | 3 | -239 |
| 81 | 00:30 | 817949 | -11 | -250 |
| 82 | 00:45 | 817924 | -25 | -275 |
| 83 | 01:00 | 817934 | 10 | -265 |
| 84 | 01:15 | 817925 | -9 | -274 |
| 85 | 01:30 | 817932 | 7 | -267 |
| 86 | 01:45 | 817922 | -10 | -277 |
| 87 | 02:00 | 817909 | -13 | -290 |
| 88 | 02:15 | 817939 | 30 | -260 |
| 89 | 02:30 | 817925 | -14 | -274 |
| 90 | 02:45 | 817918 | -7 | -281 |
| 91 | 03:00 | 817939 | 20 | -260 |
| 92 | 03:15 | 817925 | -13 | -274 |
| 93 | 03:30 | 817916 | -9 | -283 |
| 94 | 03:45 | 817921 | 5 | -278 |
| 95 | 04:00 | 817922 | 1 | -277 |
| 96 | 04:15 | 817930 | 8 | -269 |
| 97 | 04:30 | 817926 | -3 | -273 |

********** CALCULATED VALUES **********

| DATA SET | CLOCK TIME | CONTAIN. PRESSURE (psia) | VAPOR PRESSURE (psia) | AIR PRESSURE (psia) | AVG. DRY BULB TEMP (DEG F) |
|---|---|---|---|---|---|
| 1 | 04:30 | 63.0986 | 0.1908 | 62.908 | 69.522 |
| 2 | 04:45 | 63.0966 | 0.1910 | 62.906 | 69.505 |
| 3 | 05:00 | 63.0956 | 0.1913 | 62.904 | 69.501 |
| 4 | 05:15 | 63.0930 | 0.1907 | 62.902 | 69.483 |
| 5 | 05:30 | 63.0900 | 0.1910 | 62.899 | 69.476 |
| 6 | 05:45 | 63.0900 | 0.1907 | 62.899 | 69.468 |
| 7 | 06:00 | 63.0890 | 0.1909 | 62.898 | 69.455 |
| 8 | 06:15 | 63.0880 | 0.1908 | 62.897 | 69.449 |
| 9 | 06:30 | 63.0875 | 0.1911 | 62.896 | 69.436 |
| 10 | 06:45 | 63.0840 | 0.1920 | 62.892 | 69.426 |
| 11 | 07:00 | 63.0835 | 0.1925 | 62.891 | 69.415 |
| 12 | 07:15 | 63.0814 | 0.1909 | 62.891 | 69.412 |
| 13 | 07:30 | 63.0794 | 0.1912 | 62.888 | 69.399 |
| 14 | 07:45 | 63.0779 | 0.1913 | 62.887 | 69.390 |
| 15 | 08:00 | 63.0774 | 0.1920 | 62.885 | 69.374 |
| 16 | 08:15 | 63.0754 | 0.1914 | 62.884 | 69.354 |
| 17 | 08:30 | 63.0744 | 0.1910 | 62.883 | 69.348 |
| 18 | 08:45 | 63.0724 | 0.1915 | 62.881 | 69.341 |
| 19 | 09:00 | 63.0719 | 0.1926 | 62.879 | 69.337 |
| 20 | 09:15 | 63.0709 | 0.1914 | 62.880 | 69.324 |
| 21 | 09:30 | 63.0684 | 0.1915 | 62.877 | 69.319 |
| 22 | 09:45 | 63.0674 | 0.1917 | 62.876 | 69.312 |
| 23 | 10:00 | 63.0648 | 0.1921 | 62.873 | 69.301 |
| 24 | 10:15 | 63.0633 | 0.1924 | 62.871 | 69.292 |
| 25 | 10:30 | 63.0623 | 0.1922 | 62.870 | 69.285 |
| 26 | 10:45 | 63.0613 | 0.1928 | 62.869 | 69.274 |
| 27 | 11:00 | 63.0603 | 0.1925 | 62.868 | 69.267 |
| 28 | 11:15 | 63.0578 | 0.1913 | 62.867 | 69.256 |
| 29 | 11:30 | 63.0573 | 0.1919 | 62.865 | 69.251 |
| 30 | 11:45 | 63.0563 | 0.1920 | 62.864 | 69.242 |
| 31 | 12:00 | 63.0548 | 0.1912 | 62.864 | 69.230 |
| 32 | 12:15 | 63.0538 | 0.1915 | 62.862 | 69.227 |
| 33 | 12:30 | 63.0528 | 0.1920 | 62.861 | 69.217 |
| 34 | 12:45 | 63.0518 | 0.1922 | 62.860 | 69.211 |
| 35 | 13:00 | 63.0497 | 0.1922 | 62.858 | 69.201 |
| 36 | 13:15 | 63.0482 | 0.1929 | 62.855 | 69.194 |
| 37 | 13:30 | 63.0477 | 0.1932 | 62.855 | 69.183 |
| 38 | 13:45 | 63.0457 | 0.1920 | 62.854 | 69.183 |
| 39 | 14:00 | 63.0452 | 0.1922 | 62.853 | 69.175 |
| 40 | 14:15 | 63.0437 | 0.1915 | 62.852 | 69.160 |
| 41 | 14:30 | 63.0427 | 0.1922 | 62.850 | 69.153 |
| 42 | 14:45 | 63.0417 | 0.1935 | 62.848 | 69.142 |
| 43 | 15:00 | 63.0402 | 0.1912 | 62.849 | 69.140 |
| 44 | 15:15 | 63.0397 | 0.1926 | 62.847 | 69.126 |
| 45 | 15:30 | 63.0387 | 0.1928 | 62.846 | 69.121 |
| 46 | 15:45 | 63.0377 | 0.1936 | 62.844 | 69.118 |
| 47 | 16:00 | 63.0366 | 0.1936 | 62.843 | 69.112 |
| 48 | 16:15 | 63.0351 | 0.1924 | 62.843 | 69.101 |
| 49 | 16:30 | 63.0346 | 0.1927 | 62.842 | 69.096 |
| 50 | 16:45 | 63.0336 | 0.1925 | 62.841 | 69.090 |

| | | | | | |
|---|---|---|---|---|---|
| 51 | 17:00 | 63.0331 | 0.1938 | 62.839 | 69.079 |
| 52 | 17:15 | 63.0301 | 0.1931 | 62.837 | 69.075 |
| 53 | 17:30 | 63.0286 | 0.1919 | 62.837 | 69.078 |
| 54 | 17:45 | 63.0281 | 0.1934 | 62.835 | 69.067 |
| 55 | 18:00 | 63.0271 | 0.1923 | 62.835 | 69.056 |
| 56 | 18:15 | 63.0266 | 0.1939 | 62.833 | 69.043 |
| 57 | 18:30 | 63.0256 | 0.1934 | 62.832 | 69.044 |
| 58 | 18:45 | 63.0251 | 0.1936 | 62.831 | 69.034 |
| 59 | 19:00 | 63.0251 | 0.1933 | 62.832 | 69.025 |
| 60 | 19:15 | 63.0241 | 0.1930 | 62.831 | 69.019 |
| 61 | 19:30 | 63.0225 | 0.1936 | 62.829 | 69.016 |
| 62 | 19:45 | 63.0205 | 0.1933 | 62.827 | 69.012 |
| 63 | 20:00 | 63.0200 | 0.1929 | 62.827 | 68.994 |
| 64 | 20:15 | 63.0200 | 0.1932 | 62.827 | 68.985 |
| 65 | 20:30 | 63.0190 | 0.1936 | 62.825 | 68.977 |
| 66 | 20:45 | 63.0180 | 0.1925 | 62.826 | 68.969 |
| 67 | 21:00 | 63.0165 | 0.1927 | 62.824 | 68.964 |
| 68 | 21:15 | 63.0150 | 0.1928 | 62.822 | 68.955 |
| 69 | 21:30 | 63.0150 | 0.1923 | 62.823 | 68.952 |
| 70 | 21:45 | 63.0140 | 0.1927 | 62.821 | 68.952 |
| 71 | 22:00 | 63.0135 | 0.1929 | 62.821 | 68.939 |
| 72 | 22:15 | 63.0125 | 0.1923 | 62.820 | 68.929 |
| 73 | 22:30 | 63.0110 | 0.1916 | 62.819 | 68.923 |
| 74 | 22:45 | 63.0110 | 0.1928 | 62.818 | 68.919 |
| 75 | 23:00 | 63.0100 | 0.1931 | 62.817 | 68.920 |
| 76 | 23:15 | 63.0084 | 0.1930 | 62.815 | 68.909 |
| 77 | 23:30 | 63.0084 | 0.1930 | 62.815 | 68.903 |
| 78 | 23:45 | 63.0069 | 0.1930 | 62.814 | 68.894 |
| 79 | 00:00 | 63.0064 | 0.1927 | 62.814 | 68.887 |
| 80 | 00:15 | 63.0054 | 0.1923 | 62.813 | 68.880 |
| 81 | 00:30 | 63.0044 | 0.1928 | 62.812 | 68.875 |
| 82 | 00:45 | 63.0024 | 0.1938 | 62.809 | 68.865 |
| 83 | 01:00 | 63.0024 | 0.1936 | 62.809 | 68.861 |
| 84 | 01:15 | 63.0004 | 0.1930 | 62.807 | 68.855 |
| 85 | 01:30 | 63.0004 | 0.1926 | 62.808 | 68.854 |
| 86 | 01:45 | 62.9984 | 0.1928 | 62.806 | 68.841 |
| 87 | 02:00 | 62.9979 | 0.1934 | 62.804 | 68.841 |
| 88 | 02:15 | 62.9989 | 0.1935 | 62.805 | 68.829 |
| 89 | 02:30 | 62.9969 | 0.1927 | 62.804 | 68.828 |
| 90 | 02:45 | 62.9969 | 0.1927 | 62.804 | 68.832 |
| 91 | 03:00 | 62.9969 | 0.1931 | 62.804 | 68.816 |
| 92 | 03:15 | 62.9954 | 0.1927 | 62.803 | 68.815 |
| 93 | 03:30 | 62.9949 | 0.1930 | 62.802 | 68.814 |
| 94 | 03:45 | 62.9949 | 0.1930 | 62.802 | 68.811 |
| 95 | 04:00 | 62.9949 | 0.1931 | 62.802 | 68.810 |
| 96 | 04:15 | 62.9939 | 0.1929 | 62.801 | 68.797 |
| 97 | 04:30 | 62.9923 | 0.1927 | 62.800 | 68.789 |

********** DEW CELL DATA **********

| DATA SET | DEW CELL 1 (°F) | DEW CELL 2 (°F) | DEW CELL 3 (°F) | DEW CELL 4 (°F) | DEW CELL 5 (°F) | DEW CELL 6 (°F) |
|---|---|---|---|---|---|---|
| 1 | 55.932 | 55.809 | 49.404 | 49.087 | 48.573 | 47.828 |
| 2 | 56.022 | 55.738 | 49.452 | 49.078 | 48.602 | 48.010 |
| 3 | 55.931 | 55.923 | 49.507 | 49.116 | 48.686 | 48.025 |
| 4 | 55.851 | 55.705 | 49.340 | 49.154 | 48.709 | 48.022 |
| 5 | 55.921 | 55.815 | 49.298 | 49.165 | 48.770 | 47.995 |
| 6 | 55.865 | 55.668 | 49.284 | 49.182 | 48.790 | 48.002 |
| 7 | 55.876 | 55.725 | 49.324 | 49.218 | 48.761 | 48.045 |
| 8 | 55.842 | 55.600 | 49.386 | 49.249 | 48.774 | 48.106 |
| 9 | 55.850 | 55.728 | 49.356 | 49.269 | 48.893 | 48.072 |
| 10 | 55.979 | 55.796 | 49.748 | 49.304 | 48.954 | 48.175 |
| 11 | 55.998 | 56.050 | 49.717 | 49.334 | 48.947 | 48.185 |
| 12 | 55.935 | 55.520 | 49.299 | 49.334 | 48.909 | 48.132 |
| 13 | 55.897 | 55.589 | 49.346 | 49.388 | 49.043 | 48.202 |
| 14 | 55.958 | 55.421 | 49.446 | 49.400 | 49.008 | 48.320 |
| 15 | 55.934 | 55.827 | 49.581 | 49.417 | 48.994 | 48.274 |
| 16 | 55.859 | 55.735 | 49.337 | 49.441 | 48.986 | 48.222 |
| 17 | 55.793 | 55.332 | 49.386 | 49.479 | 49.082 | 48.378 |
| 18 | 55.833 | 55.558 | 49.447 | 49.502 | 49.067 | 48.451 |
| 19 | 55.844 | 56.143 | 49.501 | 49.536 | 49.115 | 48.443 |
| 20 | 55.777 | 55.688 | 49.157 | 49.536 | 49.150 | 48.417 |
| 21 | 55.831 | 55.680 | 49.212 | 49.525 | 49.162 | 48.432 |
| 22 | 55.857 | 55.430 | 49.568 | 49.604 | 49.168 | 48.461 |
| 23 | 55.795 | 55.714 | 49.554 | 49.630 | 49.223 | 48.498 |
| 24 | 55.752 | 56.018 | 49.501 | 49.621 | 49.188 | 48.388 |
| 25 | 55.767 | 55.690 | 49.586 | 49.705 | 49.243 | 48.448 |
| 26 | 55.744 | 56.012 | 49.586 | 49.728 | 49.299 | 48.580 |
| 27 | 55.755 | 55.828 | 49.591 | 49.746 | 49.285 | 48.545 |
| 28 | 55.719 | 55.232 | 49.337 | 49.786 | 49.319 | 48.536 |
| 29 | 55.694 | 55.502 | 49.465 | 49.789 | 49.307 | 48.608 |
| 30 | 55.715 | 55.532 | 49.472 | 49.815 | 49.319 | 48.652 |
| 31 | 55.668 | 55.282 | 49.160 | 49.819 | 49.356 | 48.680 |
| 32 | 55.679 | 55.282 | 49.350 | 49.852 | 49.372 | 48.629 |
| 33 | 55.648 | 55.612 | 49.437 | 49.818 | 49.293 | 48.651 |
| 34 | 55.558 | 55.706 | 49.528 | 49.839 | 49.421 | 48.619 |
| 35 | 55.618 | 55.433 | 49.780 | 49.838 | 49.459 | 48.632 |
| 36 | 55.680 | 55.859 | 49.719 | 49.852 | 49.441 | 48.637 |
| 37 | 55.589 | 56.063 | 49.671 | 49.894 | 49.464 | 48.707 |
| 38 | 55.630 | 55.444 | 49.401 | 49.931 | 49.575 | 48.648 |
| 39 | 55.645 | 55.572 | 49.447 | 49.932 | 49.465 | 48.652 |
| 40 | 55.455 | 55.252 | 49.505 | 49.923 | 49.484 | 48.680 |
| 41 | 55.682 | 55.389 | 49.508 | 49.963 | 49.517 | 48.768 |
| 42 | 55.619 | 56.063 | 49.897 | 49.948 | 49.362 | 48.750 |
| 43 | 55.522 | 55.125 | 49.267 | 49.934 | 49.563 | 48.713 |
| 44 | 55.584 | 55.590 | 49.668 | 49.974 | 49.484 | 48.815 |
| 45 | 55.638 | 55.494 | 49.815 | 50.004 | 49.572 | 48.869 |
| 46 | 55.648 | 55.804 | 49.856 | 50.088 | 49.621 | 48.910 |
| 47 | 55.403 | 56.080 | 49.845 | 50.112 | 49.641 | 48.786 |
| 48 | 55.371 | 55.281 | 49.870 | 50.137 | 49.671 | 48.928 |
| 49 | 55.607 | 55.448 | 49.581 | 50.123 | 49.624 | 48.979 |
| 50 | 55.612 | 55.444 | 49.519 | 50.178 | 49.592 | 48.828 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 55.561 | 55.754 | 50.061 | 50.163 | 49.607 | 49.057 |
| 52 | 55.510 | 55.583 | 49.812 | 50.186 | 49.679 | 48.855 |
| 53 | 55.444 | 55.189 | 49.321 | 50.227 | 49.778 | 48.905 |
| 54 | 55.465 | 55.616 | 49.963 | 50.238 | 49.736 | 48.899 |
| 55 | 55.407 | 55.241 | 49.604 | 50.238 | 49.717 | 48.996 |
| 56 | 55.397 | 55.760 | 50.148 | 50.280 | 49.780 | 49.063 |
| 57 | 55.438 | 55.593 | 49.928 | 50.262 | 49.845 | 49.018 |
| 58 | 55.468 | 55.583 | 49.910 | 50.308 | 49.848 | 49.148 |
| 59 | 55.479 | 55.436 | 49.908 | 50.320 | 49.803 | 49.025 |
| 60 | 55.429 | 55.287 | 49.826 | 50.340 | 49.839 | 49.125 |
| 61 | 55.447 | 55.549 | 50.000 | 50.277 | 49.961 | 49.040 |
| 62 | 55.404 | 55.459 | 49.984 | 50.341 | 49.899 | 48.915 |
| 63 | 55.387 | 55.264 | 49.867 | 50.338 | 49.830 | 49.081 |
| 64 | 55.378 | 55.361 | 49.977 | 50.361 | 49.928 | 49.038 |
| 65 | 55.365 | 55.432 | 50.125 | 50.346 | 49.928 | 49.156 |
| 66 | 55.328 | 55.059 | 49.864 | 50.351 | 49.798 | 49.076 |
| 67 | 55.365 | 55.050 | 49.865 | 50.399 | 49.980 | 49.128 |
| 68 | 55.384 | 55.082 | 49.986 | 50.351 | 49.868 | 49.151 |
| 69 | 55.305 | 54.898 | 49.839 | 50.351 | 49.948 | 49.096 |
| 70 | 55.284 | 55.047 | 49.978 | 50.376 | 49.980 | 49.058 |
| 71 | 55.233 | 55.192 | 49.995 | 50.378 | 49.942 | 49.115 |
| 72 | 54.936 | 55.043 | 50.001 | 50.430 | 49.989 | 49.177 |
| 73 | 55.033 | 54.724 | 49.646 | 50.418 | 50.036 | 49.247 |
| 74 | 55.217 | 55.052 | 50.062 | 50.410 | 49.916 | 49.243 |
| 75 | 55.056 | 55.177 | 50.228 | 50.413 | 50.024 | 49.266 |
| 76 | 55.156 | 55.168 | 50.056 | 50.441 | 50.033 | 49.209 |
| 77 | 55.229 | 55.015 | 50.106 | 50.471 | 50.032 | 49.240 |
| 78 | 55.256 | 54.985 | 50.154 | 50.459 | 50.000 | 49.288 |
| 79 | 55.156 | 54.957 | 50.038 | 50.483 | 50.085 | 49.206 |
| 80 | 54.884 | 54.876 | 50.135 | 50.465 | 50.041 | 49.348 |
| 81 | 55.152 | 54.921 | 50.111 | 50.470 | 50.085 | 49.298 |
| 82 | 55.162 | 55.319 | 50.462 | 50.494 | 50.094 | 49.185 |
| 83 | 55.160 | 55.142 | 50.347 | 50.494 | 50.158 | 49.324 |
| 84 | 55.069 | 54.852 | 50.363 | 50.485 | 50.125 | 49.412 |
| 85 | 54.989 | 54.893 | 50.039 | 50.544 | 50.091 | 49.446 |
| 86 | 54.899 | 55.032 | 50.213 | 50.512 | 50.190 | 49.307 |
| 87 | 55.078 | 54.937 | 50.430 | 50.555 | 50.222 | 49.429 |
| 88 | 55.178 | 54.975 | 50.407 | 50.563 | 50.094 | 49.377 |
| 89 | 54.763 | 54.904 | 50.332 | 50.555 | 50.091 | 49.421 |
| 90 | 54.982 | 54.840 | 50.175 | 50.558 | 50.157 | 49.330 |
| 91 | 55.021 | 54.875 | 50.306 | 50.547 | 50.257 | 49.408 |
| 92 | 54.870 | 54.803 | 50.276 | 50.578 | 50.219 | 49.362 |
| 93 | 55.041 | 54.800 | 50.328 | 50.593 | 50.195 | 49.391 |
| 94 | 55.026 | 54.783 | 50.357 | 50.572 | 50.193 | 49.400 |
| 95 | 55.026 | 54.728 | 50.399 | 50.621 | 50.268 | 49.411 |
| 96 | 54.946 | 54.722 | 50.410 | 50.611 | 50.199 | 49.456 |
| 97 | 54.988 | 54.646 | 50.268 | 50.614 | 50.213 | 49.409 |

********** DRY BULB 1-6 DATA **********

| DATA SET | DRY BULB 1 (°F) | DRY BULB 2 (°F) | DRY BULB 3 (°F) | DRY BULB 4 (°F) | DRY BULB 5 (°F) | DRY BULB 6 (°F) |
|---|---|---|---|---|---|---|
| 1 | 71.841 | 71.977 | 71.739 | 71.962 | 72.044 | 71.678 |
| 2 | 71.766 | 71.928 | 71.705 | 71.908 | 72.010 | 71.627 |
| 3 | 71.711 | 71.929 | 71.672 | 71.876 | 71.965 | 71.612 |
| 4 | 71.685 | 71.894 | 71.638 | 71.847 | 71.945 | 71.595 |
| 5 | 71.691 | 71.839 | 71.629 | 71.788 | 71.913 | 71.539 |
| 6 | 71.661 | 71.812 | 71.614 | 71.783 | 71.894 | 71.516 |
| 7 | 71.603 | 71.788 | 71.582 | 71.778 | 71.858 | 71.493 |
| 8 | 71.583 | 71.754 | 71.562 | 71.733 | 71.836 | 71.461 |
| 9 | 71.569 | 71.719 | 71.524 | 71.710 | 71.810 | 71.444 |
| 10 | 71.524 | 71.688 | 71.485 | 71.682 | 71.798 | 71.402 |
| 11 | 71.530 | 71.678 | 71.456 | 71.629 | 71.768 | 71.369 |
| 12 | 71.478 | 71.656 | 71.434 | 71.615 | 71.745 | 71.357 |
| 13 | 71.482 | 71.637 | 71.408 | 71.600 | 71.702 | 71.322 |
| 14 | 71.426 | 71.589 | 71.385 | 71.566 | 71.678 | 71.276 |
| 15 | 71.380 | 71.562 | 71.345 | 71.519 | 71.661 | 71.244 |
| 16 | 71.325 | 71.531 | 71.315 | 71.479 | 71.637 | 71.192 |
| 17 | 71.289 | 71.484 | 71.289 | 71.458 | 71.621 | 71.189 |
| 18 | 71.287 | 71.476 | 71.273 | 71.447 | 71.575 | 71.180 |
| 19 | 71.289 | 71.434 | 71.241 | 71.455 | 71.546 | 71.145 |
| 20 | 71.250 | 71.418 | 71.215 | 71.380 | 71.525 | 71.116 |
| 21 | 71.286 | 71.385 | 71.192 | 71.360 | 71.493 | 71.102 |
| 22 | 71.250 | 71.371 | 71.189 | 71.333 | 71.466 | 71.072 |
| 23 | 71.237 | 71.336 | 71.160 | 71.308 | 71.453 | 71.046 |
| 24 | 71.212 | 71.321 | 71.128 | 71.273 | 71.440 | 71.028 |
| 25 | 71.189 | 71.290 | 71.084 | 71.254 | 71.423 | 70.993 |
| 26 | 71.176 | 71.247 | 71.064 | 71.240 | 71.379 | 70.979 |
| 27 | 71.109 | 71.217 | 71.044 | 71.223 | 71.353 | 70.967 |
| 28 | 71.073 | 71.214 | 71.029 | 71.206 | 71.327 | 70.924 |
| 29 | 71.083 | 71.179 | 71.003 | 71.165 | 71.301 | 70.903 |
| 30 | 71.069 | 71.160 | 70.986 | 71.131 | 71.278 | 70.875 |
| 31 | 71.046 | 71.138 | 70.970 | 71.090 | 71.250 | 70.848 |
| 32 | 71.026 | 71.133 | 70.942 | 71.078 | 71.241 | 70.826 |
| 33 | 71.009 | 71.107 | 70.921 | 71.067 | 71.212 | 70.817 |
| 34 | 70.956 | 71.084 | 70.898 | 71.070 | 71.191 | 70.803 |
| 35 | 70.916 | 71.029 | 70.883 | 71.038 | 71.174 | 70.794 |
| 36 | 70.889 | 71.015 | 70.860 | 70.988 | 71.167 | 70.767 |
| 37 | 70.887 | 71.002 | 70.838 | 70.999 | 71.133 | 70.747 |
| 38 | 70.883 | 70.996 | 70.822 | 71.003 | 71.125 | 70.730 |
| 39 | 70.857 | 70.986 | 70.796 | 71.014 | 71.104 | 70.712 |
| 40 | 70.814 | 70.948 | 70.767 | 70.959 | 71.069 | 70.680 |
| 41 | 70.799 | 70.929 | 70.733 | 70.919 | 71.054 | 70.651 |
| 42 | 70.800 | 70.913 | 70.726 | 70.904 | 71.026 | 70.637 |
| 43 | 70.785 | 70.883 | 70.713 | 70.895 | 71.025 | 70.616 |
| 44 | 70.736 | 70.849 | 70.680 | 70.858 | 70.991 | 70.581 |
| 45 | 70.698 | 70.843 | 70.657 | 70.852 | 70.970 | 70.558 |
| 46 | 70.689 | 70.811 | 70.629 | 70.840 | 70.950 | 70.541 |
| 47 | 70.648 | 70.800 | 70.619 | 70.829 | 70.919 | 70.533 |
| 48 | 70.625 | 70.803 | 70.602 | 70.784 | 70.907 | 70.500 |
| 49 | 70.594 | 70.761 | 70.576 | 70.764 | 70.890 | 70.507 |
| 50 | 70.565 | 70.764 | 70.567 | 70.718 | 70.878 | 70.469 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 70.539 | 70.733 | 70.536 | 70.692 | 70.866 | 70.431 |
| 52 | 70.547 | 70.713 | 70.512 | 70.687 | 70.828 | 70.417 |
| 53 | 70.517 | 70.713 | 70.506 | 70.677 | 70.819 | 70.401 |
| 54 | 70.494 | 70.690 | 70.477 | 70.666 | 70.791 | 70.375 |
| 55 | 70.475 | 70.666 | 70.454 | 70.623 | 70.785 | 70.349 |
| 56 | 70.440 | 70.648 | 70.425 | 70.603 | 70.753 | 70.344 |
| 57 | 70.430 | 70.632 | 70.416 | 70.590 | 70.747 | 70.352 |
| 58 | 70.416 | 70.611 | 70.390 | 70.532 | 70.729 | 70.340 |
| 59 | 70.390 | 70.553 | 70.365 | 70.547 | 70.686 | 70.294 |
| 60 | 70.385 | 70.518 | 70.352 | 70.517 | 70.666 | 70.269 |
| 61 | 70.369 | 70.542 | 70.341 | 70.512 | 70.654 | 70.239 |
| 62 | 70.330 | 70.517 | 70.318 | 70.510 | 70.651 | 70.222 |
| 63 | 70.297 | 70.509 | 70.304 | 70.457 | 70.622 | 70.198 |
| 64 | 70.295 | 70.471 | 70.288 | 70.451 | 70.610 | 70.190 |
| 65 | 70.286 | 70.468 | 70.265 | 70.462 | 70.588 | 70.169 |
| 66 | 70.259 | 70.451 | 70.243 | 70.443 | 70.581 | 70.144 |
| 67 | 70.233 | 70.436 | 70.216 | 70.414 | 70.558 | 70.152 |
| 68 | 70.217 | 70.410 | 70.207 | 70.387 | 70.541 | 70.120 |
| 69 | 70.227 | 70.405 | 70.193 | 70.376 | 70.517 | 70.123 |
| 70 | 70.201 | 70.373 | 70.176 | 70.343 | 70.526 | 70.098 |
| 71 | 70.187 | 70.344 | 70.152 | 70.350 | 70.484 | 70.060 |
| 72 | 70.147 | 70.350 | 70.129 | 70.318 | 70.465 | 70.056 |
| 73 | 70.106 | 70.329 | 70.112 | 70.307 | 70.452 | 70.033 |
| 74 | 70.085 | 70.326 | 70.106 | 70.323 | 70.434 | 70.007 |
| 75 | 70.091 | 70.260 | 70.082 | 70.283 | 70.452 | 69.987 |
| 76 | 70.085 | 70.280 | 70.065 | 70.254 | 70.448 | 69.955 |
| 77 | 70.092 | 70.275 | 70.053 | 70.236 | 70.399 | 69.944 |
| 78 | 70.040 | 70.269 | 70.031 | 70.208 | 70.364 | 69.952 |
| 79 | 70.011 | 70.243 | 70.010 | 70.199 | 70.335 | 69.926 |
| 80 | 70.021 | 70.210 | 69.992 | 70.179 | 70.320 | 69.924 |
| 81 | 70.018 | 70.198 | 69.976 | 70.152 | 70.320 | 69.895 |
| 82 | 70.005 | 70.163 | 69.967 | 70.156 | 70.321 | 69.868 |
| 83 | 69.958 | 70.149 | 69.950 | 70.143 | 70.309 | 69.859 |
| 84 | 69.938 | 70.144 | 69.937 | 70.143 | 70.292 | 69.833 |
| 85 | 69.923 | 70.127 | 69.926 | 70.123 | 70.282 | 69.830 |
| 86 | 69.885 | 70.074 | 69.895 | 70.109 | 70.286 | 69.809 |
| 87 | 69.885 | 70.088 | 69.895 | 70.076 | 70.257 | 69.801 |
| 88 | 69.862 | 70.098 | 69.859 | 70.040 | 70.253 | 69.799 |
| 89 | 69.854 | 70.105 | 69.859 | 70.042 | 70.233 | 69.786 |
| 90 | 69.816 | 70.056 | 69.859 | 70.048 | 70.217 | 69.780 |
| 91 | 69.821 | 70.062 | 69.834 | 70.010 | 70.205 | 69.758 |
| 92 | 69.863 | 70.062 | 69.821 | 70.005 | 70.192 | 69.752 |
| 93 | 69.839 | 70.054 | 69.801 | 70.015 | 70.201 | 69.749 |
| 94 | 69.851 | 70.036 | 69.798 | 70.013 | 70.199 | 69.747 |
| 95 | 69.844 | 70.019 | 69.780 | 69.996 | 70.170 | 69.717 |
| 96 | 69.825 | 70.011 | 69.760 | 69.970 | 70.149 | 69.702 |
| 97 | 69.822 | 69.967 | 69.752 | 69.958 | 70.141 | 69.679 |

********** DRY BULB 7-12 DATA **********

| DATA SET | DRY BULB 7 (°F) | DRY BULB 8 (°F) | DRY BULB 9 (°F) | DRY BULB 10 (°F) | DRY BULB 11 (°F) | DRY BULB 12 (°F) |
|---|---|---|---|---|---|---|
| 1 | 71.763 | 71.658 | 70.022 | 70.028 | 69.490 | 69.947 |
| 2 | 71.728 | 71.652 | 69.986 | 70.022 | 69.503 | 69.946 |
| 3 | 71.667 | 71.652 | 69.982 | 70.002 | 69.505 | 69.928 |
| 4 | 71.640 | 71.618 | 69.970 | 69.982 | 69.480 | 69.911 |
| 5 | 71.615 | 71.582 | 69.966 | 69.990 | 69.490 | 69.894 |
| 6 | 71.582 | 71.568 | 69.934 | 69.966 | 69.456 | 69.885 |
| 7 | 71.554 | 71.533 | 69.931 | 69.955 | 69.448 | 69.862 |
| 8 | 71.517 | 71.514 | 69.920 | 69.937 | 69.459 | 69.856 |
| 9 | 71.502 | 71.467 | 69.888 | 69.926 | 69.447 | 69.836 |
| 10 | 71.473 | 71.453 | 69.892 | 69.905 | 69.422 | 69.828 |
| 11 | 71.431 | 71.392 | 69.888 | 69.905 | 69.422 | 69.810 |
| 12 | 71.395 | 71.363 | 69.877 | 69.897 | 69.395 | 69.805 |
| 13 | 71.388 | 71.359 | 69.866 | 69.888 | 69.390 | 69.784 |
| 14 | 71.368 | 71.340 | 69.851 | 69.854 | 69.378 | 69.780 |
| 15 | 71.340 | 71.296 | 69.850 | 69.834 | 69.363 | 69.754 |
| 16 | 71.305 | 71.267 | 69.831 | 69.810 | 69.351 | 69.755 |
| 17 | 71.279 | 71.240 | 69.827 | 69.809 | 69.329 | 69.731 |
| 18 | 71.244 | 71.214 | 69.805 | 69.805 | 69.323 | 69.712 |
| 19 | 71.232 | 71.202 | 69.807 | 69.790 | 69.319 | 69.712 |
| 20 | 71.208 | 71.168 | 69.789 | 69.772 | 69.314 | 69.700 |
| 21 | 71.185 | 71.130 | 69.784 | 69.784 | 69.311 | 69.686 |
| 22 | 71.173 | 71.104 | 69.769 | 69.761 | 69.296 | 69.659 |
| 23 | 71.138 | 71.089 | 69.740 | 69.758 | 69.258 | 69.657 |
| 24 | 71.116 | 71.064 | 69.732 | 69.763 | 69.259 | 69.661 |
| 25 | 71.093 | 71.051 | 69.725 | 69.751 | 69.238 | 69.654 |
| 26 | 71.057 | 71.009 | 69.711 | 69.717 | 69.236 | 69.642 |
| 27 | 71.034 | 70.974 | 69.711 | 69.720 | 69.236 | 69.628 |
| 28 | 71.003 | 70.954 | 69.689 | 69.700 | 69.238 | 69.615 |
| 29 | 70.979 | 70.936 | 69.693 | 69.709 | 69.235 | 69.607 |
| 30 | 70.965 | 70.921 | 69.688 | 69.705 | 69.235 | 69.590 |
| 31 | 70.936 | 70.893 | 69.668 | 69.674 | 69.227 | 69.578 |
| 32 | 70.927 | 70.867 | 69.650 | 69.653 | 69.223 | 69.570 |
| 33 | 70.901 | 70.854 | 69.648 | 69.633 | 69.213 | 69.572 |
| 34 | 70.895 | 70.832 | 69.638 | 69.618 | 69.191 | 69.566 |
| 35 | 70.887 | 70.811 | 69.630 | 69.639 | 69.189 | 69.534 |
| 36 | 70.838 | 70.787 | 69.635 | 69.644 | 69.174 | 69.528 |
| 37 | 70.808 | 70.764 | 69.622 | 69.624 | 69.157 | 69.529 |
| 38 | 70.793 | 70.748 | 69.615 | 69.618 | 69.163 | 69.519 |
| 39 | 70.773 | 70.732 | 69.590 | 69.625 | 69.120 | 69.505 |
| 40 | 70.756 | 70.703 | 69.578 | 69.618 | 69.119 | 69.493 |
| 41 | 70.723 | 70.677 | 69.587 | 69.609 | 69.123 | 69.488 |
| 42 | 70.724 | 70.652 | 69.587 | 69.590 | 69.094 | 69.487 |
| 43 | 70.698 | 70.645 | 69.586 | 69.590 | 69.113 | 69.467 |
| 44 | 70.672 | 70.617 | 69.564 | 69.570 | 69.111 | 69.453 |
| 45 | 70.649 | 70.602 | 69.537 | 69.569 | 69.097 | 69.444 |
| 46 | 70.637 | 70.571 | 69.535 | 69.557 | 69.107 | 69.427 |
| 47 | 70.617 | 70.553 | 69.537 | 69.520 | 69.093 | 69.418 |
| 48 | 70.596 | 70.539 | 69.520 | 69.540 | 69.097 | 69.413 |
| 49 | 70.582 | 70.517 | 69.514 | 69.514 | 69.084 | 69.418 |
| 50 | 70.561 | 70.501 | 69.500 | 69.538 | 69.073 | 69.392 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 70.539 | 70.475 | 69.508 | 69.523 | 69.050 | 69.387 |
| 52 | 70.518 | 70.455 | 69.503 | 69.499 | 69.047 | 69.368 |
| 53 | 70.518 | 70.439 | 69.476 | 69.503 | 69.049 | 69.386 |
| 54 | 70.495 | 70.417 | 69.455 | 69.512 | 69.038 | 69.364 |
| 55 | 70.477 | 70.410 | 69.456 | 69.500 | 69.015 | 69.358 |
| 56 | 70.455 | 70.387 | 69.433 | 69.490 | 69.009 | 69.331 |
| 57 | 70.436 | 70.365 | 69.427 | 69.474 | 69.006 | 69.325 |
| 58 | 70.404 | 70.347 | 69.419 | 69.433 | 68.992 | 69.320 |
| 59 | 70.387 | 70.318 | 69.413 | 69.458 | 68.988 | 69.320 |
| 60 | 70.381 | 70.309 | 69.412 | 69.450 | 68.974 | 69.310 |
| 61 | 70.335 | 70.288 | 69.404 | 69.432 | 68.983 | 69.303 |
| 62 | 70.330 | 70.272 | 69.384 | 69.453 | 68.972 | 69.288 |
| 63 | 70.303 | 70.257 | 69.372 | 69.447 | 68.952 | 69.270 |
| 64 | 70.298 | 70.242 | 69.375 | 69.418 | 68.939 | 69.273 |
| 65 | 70.275 | 70.216 | 69.363 | 69.403 | 68.911 | 69.259 |
| 66 | 70.249 | 70.192 | 69.354 | 69.349 | 68.896 | 69.250 |
| 67 | 70.233 | 70.173 | 69.343 | 69.381 | 68.875 | 69.253 |
| 68 | 70.208 | 70.144 | 69.349 | 69.375 | 68.899 | 69.235 |
| 69 | 70.199 | 70.152 | 69.332 | 69.372 | 68.866 | 69.224 |
| 70 | 70.172 | 70.147 | 69.349 | 69.381 | 68.873 | 69.221 |
| 71 | 70.155 | 70.118 | 69.317 | 69.364 | 68.882 | 69.227 |
| 72 | 70.126 | 70.106 | 69.313 | 69.357 | 68.862 | 69.206 |
| 73 | 70.123 | 70.089 | 69.299 | 69.360 | 68.872 | 69.203 |
| 74 | 70.112 | 70.076 | 69.290 | 69.334 | 68.855 | 69.191 |
| 75 | 70.089 | 70.062 | 69.293 | 69.329 | 68.859 | 69.194 |
| 76 | 70.074 | 70.043 | 69.285 | 69.323 | 68.844 | 69.174 |
| 77 | 70.059 | 70.005 | 69.252 | 69.300 | 68.841 | 69.158 |
| 78 | 70.048 | 69.993 | 69.270 | 69.328 | 68.832 | 69.162 |
| 79 | 70.027 | 69.972 | 69.253 | 69.306 | 68.780 | 69.152 |
| 80 | 69.996 | 69.964 | 69.256 | 69.310 | 68.788 | 69.143 |
| 81 | 69.969 | 69.960 | 69.255 | 69.296 | 68.768 | 69.137 |
| 82 | 69.958 | 69.921 | 69.249 | 69.287 | 68.774 | 69.125 |
| 83 | 69.947 | 69.911 | 69.221 | 69.256 | 68.762 | 69.120 |
| 84 | 69.918 | 69.908 | 69.215 | 69.279 | 68.763 | 69.111 |
| 85 | 69.906 | 69.885 | 69.212 | 69.297 | 68.774 | 69.102 |
| 86 | 69.897 | 69.891 | 69.194 | 69.267 | 68.785 | 69.094 |
| 87 | 69.903 | 69.876 | 69.198 | 69.262 | 68.765 | 69.093 |
| 88 | 69.870 | 69.871 | 69.191 | 69.253 | 68.750 | 69.090 |
| 89 | 69.854 | 69.848 | 69.180 | 69.271 | 68.751 | 69.099 |
| 90 | 69.827 | 69.838 | 69.186 | 69.250 | 68.748 | 69.076 |
| 91 | 69.818 | 69.824 | 69.168 | 69.252 | 68.747 | 69.067 |
| 92 | 69.798 | 69.812 | 69.165 | 69.230 | 68.731 | 69.064 |
| 93 | 69.789 | 69.807 | 69.136 | 69.241 | 68.724 | 69.061 |
| 94 | 69.764 | 69.796 | 69.143 | 69.230 | 68.724 | 69.067 |
| 95 | 69.769 | 69.792 | 69.133 | 69.247 | 68.734 | 69.052 |
| 96 | 69.737 | 69.776 | 69.142 | 69.227 | 68.698 | 69.058 |
| 97 | 69.729 | 69.761 | 69.113 | 69.213 | 68.682 | 69.039 |

********** DRY BULB 13-18 DATA **********

| DATA SET | DRY BULB 13 (°F) | DRY BULB 14 (°F) | DRY BULB 15 (°F) | DRY BULB 16 (°F) | DRY BULB 17 (°F) | DRY BULB 18 (°F) |
|---|---|---|---|---|---|---|
| 1 | 67.930 | 68.222 | 68.351 | 67.877 | 66.001 | 65.492 |
| 2 | 67.936 | 68.234 | 68.344 | 67.839 | 66.026 | 65.496 |
| 3 | 68.054 | 68.234 | 68.356 | 67.865 | 66.035 | 65.521 |
| 4 | 67.970 | 68.249 | 68.356 | 67.855 | 66.056 | 65.519 |
| 5 | 67.996 | 68.248 | 68.359 | 67.887 | 66.078 | 65.533 |
| 6 | 68.019 | 68.255 | 68.368 | 67.887 | 66.081 | 65.544 |
| 7 | 68.020 | 68.269 | 68.365 | 67.895 | 66.108 | 65.556 |
| 8 | 68.052 | 68.278 | 68.365 | 67.918 | 66.117 | 65.574 |
| 9 | 67.994 | 68.283 | 68.406 | 67.916 | 66.139 | 65.576 |
| 10 | 68.034 | 68.292 | 68.412 | 67.916 | 66.154 | 65.585 |
| 11 | 68.038 | 68.304 | 68.431 | 67.903 | 66.163 | 65.583 |
| 12 | 68.176 | 68.301 | 68.438 | 67.950 | 66.174 | 65.603 |
| 13 | 68.064 | 68.313 | 68.415 | 67.953 | 66.192 | 65.615 |
| 14 | 68.121 | 68.321 | 68.450 | 67.952 | 66.212 | 65.618 |
| 15 | 68.125 | 68.324 | 68.432 | 67.955 | 66.232 | 65.638 |
| 16 | 68.040 | 68.319 | 68.428 | 67.974 | 66.241 | 65.632 |
| 17 | 68.083 | 68.325 | 68.460 | 67.984 | 66.253 | 65.670 |
| 18 | 68.098 | 68.347 | 68.447 | 67.993 | 66.265 | 65.669 |
| 19 | 68.103 | 68.354 | 68.454 | 67.994 | 66.290 | 65.681 |
| 20 | 68.104 | 68.364 | 68.475 | 68.000 | 66.288 | 65.701 |
| 21 | 68.161 | 68.368 | 68.443 | 68.028 | 66.288 | 65.686 |
| 22 | 68.220 | 68.380 | 68.461 | 68.006 | 66.304 | 65.687 |
| 23 | 68.254 | 68.383 | 68.437 | 68.038 | 66.304 | 65.681 |
| 24 | 68.173 | 68.397 | 68.469 | 68.031 | 66.322 | 65.681 |
| 25 | 68.212 | 68.406 | 68.463 | 68.045 | 66.337 | 65.710 |
| 26 | 68.222 | 68.415 | 68.470 | 68.083 | 66.352 | 65.725 |
| 27 | 68.293 | 68.414 | 68.460 | 68.101 | 66.355 | 65.736 |
| 28 | 68.287 | 68.423 | 68.464 | 68.112 | 66.365 | 65.730 |
| 29 | 68.232 | 68.435 | 68.525 | 68.106 | 66.374 | 65.750 |
| 30 | 68.255 | 68.438 | 68.473 | 68.106 | 66.395 | 65.757 |
| 31 | 68.286 | 68.441 | 68.458 | 68.119 | 66.398 | 65.747 |
| 32 | 68.293 | 68.444 | 68.505 | 68.129 | 66.420 | 65.785 |
| 33 | 68.270 | 68.446 | 68.455 | 68.147 | 66.421 | 65.779 |
| 34 | 68.324 | 68.450 | 68.484 | 68.147 | 66.420 | 65.806 |
| 35 | 68.325 | 68.454 | 68.483 | 68.136 | 66.439 | 65.782 |
| 36 | 68.321 | 68.455 | 68.498 | 68.145 | 66.452 | 65.808 |
| 37 | 68.286 | 68.455 | 68.489 | 68.153 | 66.456 | 65.795 |
| 38 | 68.309 | 68.467 | 68.508 | 68.135 | 66.470 | 65.811 |
| 39 | 68.325 | 68.469 | 68.489 | 68.142 | 66.485 | 65.814 |
| 40 | 68.306 | 68.475 | 68.512 | 68.177 | 66.493 | 65.827 |
| 41 | 68.357 | 68.479 | 68.481 | 68.170 | 66.503 | 65.834 |
| 42 | 68.292 | 68.473 | 68.467 | 68.173 | 66.505 | 65.840 |
| 43 | 68.307 | 68.473 | 68.493 | 68.170 | 66.525 | 65.846 |
| 44 | 68.301 | 68.478 | 68.498 | 68.191 | 66.537 | 65.858 |
| 45 | 68.373 | 68.486 | 68.490 | 68.196 | 66.542 | 65.864 |
| 46 | 68.383 | 68.495 | 68.522 | 68.219 | 66.572 | 65.870 |
| 47 | 68.507 | 68.496 | 68.510 | 68.203 | 66.583 | 65.873 |
| 48 | 68.394 | 68.502 | 68.536 | 68.212 | 66.593 | 65.873 |
| 49 | 68.423 | 68.516 | 68.519 | 68.212 | 66.600 | 65.905 |
| 50 | 68.377 | 68.519 | 68.573 | 68.229 | 66.613 | 65.908 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 68.382 | 68.536 | 68.582 | 68.240 | 66.621 | 65.914 |
| 52 | 68.408 | 68.534 | 68.600 | 68.254 | 66.633 | 65.910 |
| 53 | 68:495 | 68.553 | 68.597 | 68.246 | 66.648 | 65.916 |
| 54 | 68.479 | 68.537 | 68.632 | 68.269 | 66.645 | 65.928 |
| 55 | 68.487 | 68.550 | 68.563 | 68.267 | 66.655 | 65.937 |
| 56 | 68.440 | 68.554 | 68.566 | 68.269 | 66.661 | 65.930 |
| 57 | 68.566 | 68.563 | 68.542 | 68.278 | 66.673 | 65.942 |
| 58 | 68.562 | 68.568 | 68.551 | 68.280 | 66.684 | 65.957 |
| 59 | 68.537 | 68.571 | 68.586 | 68.298 | 66.691 | 65.957 |
| 60 | 68.551 | 68.583 | 68.623 | 68.304 | 66.694 | 65.963 |
| 61 | 68.574 | 68.586 | 68.621 | 68.290 | 66.703 | 65.976 |
| 62 | 68.650 | 68.568 | 68.615 | 68.299 | 66.714 | 65.974 |
| 63 | 68.547 | 68.576 | 68.612 | 68.310 | 66.720 | 65.977 |
| 64 | 68.457 | 68.595 | 68.595 | 68.316 | 66.725 | 65.983 |
| 65 | 68.463 | 68.582 | 68.594 | 68.310 | 66.726 | 65.997 |
| 66 | 68.528 | 68.585 | 68.589 | 68.321 | 66.732 | 65.998 |
| 67 | 68.521 | 68.597 | 68.589 | 68.327 | 66.749 | 66.015 |
| 68 | 68.512 | 68.585 | 68.591 | 68.316 | 66.748 | 66.003 |
| 69 | 68.495 | 68.608 | 68.598 | 68.328 | 66.764 | 66.015 |
| 70 | 68.583 | 68.602 | 68.629 | 68.331 | 66.769 | 66.035 |
| 71 | 68.496 | 68.592 | 68.615 | 68.324 | 66.774 | 66.041 |
| 72 | 68.545 | 68.589 | 68.583 | 68.327 | 66.786 | 66.023 |
| 73 | 68.541 | 68.608 | 68.588 | 68.331 | 66.795 | 66.041 |
| 74 | 68.536 | 68.605 | 68.615 | 68.330 | 66.799 | 66.050 |
| 75 | 68.693 | 68.594 | 68.631 | 68.347 | 66.815 | 66.053 |
| 76 | 68.565 | 68.597 | 68.640 | 68.347 | 66.819 | 66.066 |
| 77 | 68.627 | 68.595 | 68.649 | 68.350 | 66.835 | 66.078 |
| 78 | 68.554 | 68.588 | 68.644 | 68.342 | 66.836 | 66.082 |
| 79 | 68.721 | 68.602 | 68.588 | 68.350 | 66.841 | 66.066 |
| 80 | 68.614 | 68.614 | 68.618 | 68.335 | 66.845 | 66.096 |
| 81 | 68.637 | 68.597 | 68.631 | 68.350 | 66.851 | 66.088 |
| 82 | 68.608 | 68.606 | 68.632 | 68.341 | 66.857 | 66.104 |
| 83 | 68.699 | 68.605 | 68.634 | 68.364 | 66.873 | 66.095 |
| 84 | 68.647 | 68.611 | 68.650 | 68.362 | 66.868 | 66.113 |
| 85 | 68.682 | 68.594 | 68.632 | 68.360 | 66.876 | 66.113 |
| 86 | 68.612 | 68.608 | 68.641 | 68.371 | 66.886 | 66.124 |
| 87 | 68.637 | 68.620 | 68.637 | 68.386 | 66.896 | 66.133 |
| 88 | 68.591 | 68.606 | 68.641 | 68.382 | 66.894 | 66.130 |
| 89 | 68.618 | 68.603 | 68.627 | 68.376 | 66.896 | 66.130 |
| 90 | 68.756 | 68.612 | 68.673 | 68.389 | 66.908 | 66.143 |
| 91 | 68.615 | 68.609 | 68.647 | 68.388 | 66.909 | 66.154 |
| 92 | 68.634 | 68.612 | 68.641 | 68.388 | 66.920 | 66.159 |
| 93 | 68.663 | 68.620 | 68.644 | 68.399 | 66.926 | 66.162 |
| 94 | 68.615 | 68.606 | 68.667 | 68.389 | 66.937 | 66.160 |
| 95 | 68.731 | 68.620 | 68.614 | 68.389 | 66.943 | 66.171 |
| 96 | 68.631 | 68.629 | 68.634 | 68.386 | 66.949 | 66.178 |
| 97 | 68.650 | 68.617 | 68.641 | 68.406 | 66.955 | 66.172 |

********** DRY BULB 19-24 DATA **********

| DATA SET | DRY BULB 19 (°F) | DRY BULB 20 (°F) | DRY BULB 21 (°F) | DRY BULB 22 (°F) | DRY BULB 23 (°F) | DRY BULB 24 (°F) |
|---|---|---|---|---|---|---|
| 1 | 65.634 | 65.997 | 66.081 | 65.518 | 65.640 | 65.708 |
| 2 | 65.617 | 66.011 | 66.105 | 65.528 | 65.654 | 65.702 |
| 3 | 65.634 | 66.033 | 66.122 | 65.541 | 65.673 | 65.721 |
| 4 | 65.641 | 66.046 | 66.133 | 65.548 | 65.666 | 65.730 |
| 5 | 65.670 | 66.058 | 66.157 | 65.562 | 65.687 | 65.736 |
| 6 | 65.696 | 66.079 | 66.168 | 65.571 | 65.715 | 65.757 |
| 7 | 65.689 | 66.093 | 66.175 | 65.588 | 65.725 | 65.736 |
| 8 | 65.679 | 66.127 | 66.203 | 65.614 | 65.741 | 65.777 |
| 9 | 65.725 | 66.127 | 66.206 | 65.626 | 65.753 | 65.780 |
| 10 | 65.731 | 66.148 | 66.218 | 65.625 | 65.759 | 65.808 |
| 11 | 65.741 | 66.154 | 66.233 | 65.638 | 65.771 | 65.815 |
| 12 | 65.741 | 66.177 | 66.233 | 65.649 | 65.776 | 65.849 |
| 13 | 65.741 | 66.189 | 66.262 | 65.683 | 65.792 | 65.847 |
| 14 | 65.759 | 66.200 | 66.288 | 65.689 | 65.795 | 65.875 |
| 15 | 65.783 | 66.206 | 66.279 | 65.707 | 65.817 | 65.887 |
| 16 | 65.806 | 66.220 | 66.296 | 65.715 | 65.832 | 65.847 |
| 17 | 65.789 | 66.233 | 66.296 | 65.736 | 65.860 | 65.879 |
| 18 | 65.809 | 66.250 | 66.301 | 65.748 | 65.870 | 65.852 |
| 19 | 65.818 | 66.268 | 66.328 | 65.768 | 65.875 | 65.879 |
| 20 | 65.823 | 66.281 | 66.339 | 65.777 | 65.881 | 65.861 |
| 21 | 65.826 | 66.288 | 66.342 | 65.780 | 65.884 | 65.928 |
| 22 | 65.852 | 66.302 | 66.351 | 65.797 | 65.902 | 65.940 |
| 23 | 65.838 | 66.305 | 66.362 | 65.802 | 65.914 | 65.921 |
| 24 | 65.852 | 66.319 | 66.371 | 65.811 | 65.939 | 65.931 |
| 25 | 65.867 | 66.333 | 66.383 | 65.827 | 65.956 | 65.948 |
| 26 | 65.875 | 66.345 | 66.403 | 65.840 | 65.943 | 65.980 |
| 27 | 65.890 | 66.360 | 66.413 | 65.846 | 65.956 | 65.985 |
| 28 | 65.878 | 66.372 | 66.421 | 65.849 | 65.957 | 66.023 |
| 29 | 65.901 | 66.383 | 66.438 | 65.866 | 65.997 | 65.980 |
| 30 | 65.931 | 66.395 | 66.445 | 65.869 | 65.979 | 65.972 |
| 31 | 65.901 | 66.403 | 66.459 | 65.885 | 66.003 | 66.052 |
| 32 | 65.943 | 66.415 | 66.479 | 65.895 | 66.014 | 66.000 |
| 33 | 65.943 | 66.438 | 66.488 | 65.908 | 66.024 | 66.072 |
| 34 | 65.907 | 66.453 | 66.491 | 65.921 | 66.043 | 65.988 |
| 35 | 65.939 | 66.455 | 66.499 | 65.931 | 66.040 | 66.033 |
| 36 | 65.956 | 66.473 | 66.513 | 65.936 | 66.061 | 66.067 |
| 37 | 65.974 | 66.494 | 66.523 | 65.953 | 66.058 | 66.023 |
| 38 | 65.963 | 66.496 | 66.539 | 65.954 | 66.078 | 66.058 |
| 39 | 65.979 | 66.516 | 66.549 | 65.971 | 66.091 | 66.076 |
| 40 | 65.963 | 66.514 | 66.546 | 65.974 | 66.096 | 66.073 |
| 41 | 65.974 | 66.528 | 66.560 | 65.982 | 66.104 | 66.119 |
| 42 | 65.962 | 66.534 | 66.583 | 65.985 | 66.107 | 66.095 |
| 43 | 65.979 | 66.549 | 66.598 | 65.998 | 66.124 | 66.102 |
| 44 | 65.991 | 66.569 | 66.595 | 66.006 | 66.133 | 66.139 |
| 45 | 66.009 | 66.575 | 66.604 | 66.023 | 66.142 | 66.159 |
| 46 | 66.047 | 66.583 | 66.621 | 66.032 | 66.151 | 66.157 |
| 47 | 66.009 | 66.586 | 66.622 | 66.029 | 66.154 | 66.156 |
| 48 | 66.008 | 66.616 | 66.647 | 66.035 | 66.163 | 66.108 |
| 49 | 66.046 | 66.612 | 66.658 | 66.052 | 66.165 | 66.142 |
| 50 | 66.052 | 66.638 | 66.670 | 66.076 | 66.183 | 66.182 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 51 | 66.029 | 66.645 | 66.679 | 66.072 | 66.189 | 66.189 |
| 52 | 66.056 | 66.668 | 66.693 | 66.079 | 66.212 | 66.214 |
| 53 | 66.064 | 66.679 | 66.699 | 66.101 | 66.226 | 66.220 |
| 54 | 66.064 | 66.687 | 66.709 | 66.102 | 66.215 | 66.209 |
| 55 | 66.055 | 66.699 | 66.723 | 66.111 | 66.233 | 66.168 |
| 56 | 66.059 | 66.716 | 66.735 | 66.125 | 66.236 | 66.226 |
| 57 | 66.091 | 66.728 | 66.731 | 66.128 | 66.249 | 66.207 |
| 58 | 66.098 | 66.731 | 66.752 | 66.137 | 66.259 | 66.230 |
| 59 | 66.130 | 66.746 | 66.755 | 66.139 | 66.265 | 66.210 |
| 60 | 66.066 | 66.752 | 66.754 | 66.143 | 66.270 | 66.301 |
| 61 | 66.101 | 66.764 | 66.770 | 66.163 | 66.282 | 66.238 |
| 62 | 66.082 | 66.783 | 66.784 | 66.165 | 66.294 | 66.239 |
| 63 | 66.117 | 66.783 | 66.780 | 66.169 | 66.288 | 66.256 |
| 64 | 66.111 | 66.793 | 66.796 | 66.191 | 66.308 | 66.273 |
| 65 | 66.134 | 66.806 | 66.801 | 66.198 | 66.305 | 66.230 |
| 66 | 66.133 | 66.809 | 66.810 | 66.204 | 66.322 | 66.281 |
| 67 | 66.151 | 66.821 | 66.813 | 66.207 | 66.326 | 66.279 |
| 68 | 66.169 | 66.824 | 66.822 | 66.223 | 66.323 | 66.293 |
| 69 | 66.163 | 66.841 | 66.842 | 66.220 | 66.337 | 66.325 |
| 70 | 66.166 | 66.844 | 66.842 | 66.229 | 66.342 | 66.264 |
| 71 | 66.197 | 66.865 | 66.864 | 66.243 | 66.354 | 66.308 |
| 72 | 66.180 | 66.874 | 66.857 | 66.253 | 66.360 | 66.299 |
| 73 | 66.168 | 66.883 | 66.864 | 66.246 | 66.374 | 66.305 |
| 74 | 66.189 | 66.890 | 66.874 | 66.262 | 66.374 | 66.346 |
| 75 | 66.172 | 66.903 | 66.885 | 66.262 | 66.384 | 66.348 |
| 76 | 66.210 | 66.906 | 66.885 | 66.273 | 66.392 | 66.366 |
| 77 | 66.200 | 66.915 | 66.893 | 66.278 | 66.404 | 66.371 |
| 78 | 66.214 | 66.938 | 66.912 | 66.294 | 66.406 | 66.357 |
| 79 | 66.233 | 66.952 | 66.912 | 66.294 | 66.418 | 66.342 |
| 80 | 66.230 | 66.966 | 66.908 | 66.313 | 66.423 | 66.383 |
| 81 | 66.233 | 66.976 | 66.929 | 66.323 | 66.432 | 66.404 |
| 82 | 66.204 | 66.973 | 66.922 | 66.330 | 66.427 | 66.403 |
| 83 | 66.229 | 66.981 | 66.941 | 66.331 | 66.435 | 66.377 |
| 84 | 66.221 | 66.983 | 66.934 | 66.331 | 66.444 | 66.369 |
| 85 | 66.279 | 66.993 | 66.944 | 66.349 | 66.464 | 66.354 |
| 86 | 66.235 | 67.004 | 66.966 | 66.352 | 66.459 | 66.392 |
| 87 | 66.253 | 67.013 | 66.966 | 66.357 | 66.470 | 66.391 |
| 88 | 66.261 | 67.018 | 66.955 | 66.349 | 66.482 | 66.391 |
| 89 | 66.249 | 67.027 | 66.975 | 66.372 | 66.476 | 66.418 |
| 90 | 66.284 | 67.041 | 66.978 | 66.384 | 66.496 | 66.423 |
| 91 | 66.272 | 67.028 | 66.983 | 66.375 | 66.491 | 66.420 |
| 92 | 66.285 | 67.042 | 66.999 | 66.391 | 66.491 | 66.430 |
| 93 | 66.275 | 67.056 | 66.992 | 66.401 | 66.497 | 66.410 |
| 94 | 66.290 | 67.063 | 66.999 | 66.412 | 66.503 | 66.468 |
| 95 | 66.299 | 67.070 | 67.007 | 66.404 | 66.513 | 66.413 |
| 96 | 66.296 | 67.079 | 67.012 | 66.412 | 66.528 | 66.429 |
| 97 | 66.294 | 67.094 | 67.022 | 66.413 | 66.536 | 66.421 |

# APPENDIX F

## Verification Test Data

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | TTM MEASURED (%/DAY) | TTM CALC. LR (%/DAY) | TTM UCL LR (%/DAY) | MASS PT. LEAKRATE (%/DAY) | MASS PT. UCL LR (%/DAY) |
|---|---|---|---|---|---|---|
| 1 | 04:45 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 2 | 05:00 | 0.094 | 0.000 | 0.000 | 0.094 | 0.000 |
| 3 | 05:15 | 0.196 | 0.000 | 0.000 | 0.196 | 0.570 |
| 4 | 05:30 | 0.188 | 0.207 | 0.643 | 0.199 | 0.277 |
| 5 | 05:45 | 0.112 | 0.155 | 0.474 | 0.137 | 0.229 |
| 6 | 06:00 | 0.117 | 0.134 | 0.344 | 0.119 | 0.178 |
| 7 | 06:15 | 0.094 | 0.111 | 0.275 | 0.098 | 0.144 |
| 8 | 06:30 | 0.108 | 0.105 | 0.239 | 0.096 | 0.130 |
| 9 | 06:45 | 0.128 | 0.110 | 0.228 | 0.107 | 0.135 |
| 10 | 07:00 | 0.117 | 0.109 | 0.214 | 0.108 | 0.130 |
| 11 | 07:15 | 0.095 | 0.101 | 0.196 | 0.100 | 0.120 |
| 12 | 07:30 | 0.130 | 0.106 | 0.197 | 0.109 | 0.129 |
| 13 | 07:45 | 0.133 | 0.111 | 0.198 | 0.117 | 0.135 |
| 14 | 08:00 | 0.124 | 0.113 | 0.194 | 0.119 | 0.134 |
| 15 | 08:15 | 0.142 | 0.119 | 0.198 | 0.126 | 0.142 |
| 16 | 08:30 | 0.114 | 0.117 | 0.191 | 0.123 | 0.136 |
| 17 | 08:45 | 0.139 | 0.121 | 0.193 | 0.128 | 0.141 |

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | AIR MASS (lbm) | PT. TO PT. MASS CHANGE (lbm) | TOTAL MASS CHANGE (lbm) |
|---|---|---|---|---|
| 1 | 04:45 | 817925 | 0 | 0 |
| 2 | 05:00 | 817917 | -8 | -8 |
| 3 | 05:15 | 817891 | -25 | -33 |
| 4 | 05:30 | 817876 | -15 | -48 |
| 5 | 05:45 | 817886 | 10 | -38 |
| 6 | 06:00 | 817875 | -12 | -50 |
| 7 | 06:15 | 817876 | 2 | -48 |
| 8 | 06:30 | 817860 | -16 | -64 |
| 9 | 06:45 | 817837 | -23 | -87 |
| 10 | 07:00 | 817835 | -2 | -89 |
| 11 | 07:15 | 817844 | 9 | -81 |
| 12 | 07:30 | 817802 | -41 | -122 |
| 13 | 07:45 | 817789 | -13 | -135 |
| 14 | 08:00 | 817787 | -2 | -137 |
| 15 | 08:15 | 817755 | -32 | -169 |
| 16 | 08:30 | 817778 | 23 | -146 |
| 17 | 08:45 | 817735 | -43 | -189 |

********** ILRT TREND REPORT **********

| DATA SET | CLOCK TIME | CONTAIN. PRESSURE (psia) | VAPOR PRESSURE (psia) | AIR PRESSURE (psia) | AVG. DRY BULB TEMP (Deg F) |
|---|---|---|---|---|---|
| 1 | 04:45 | 62.9923 | 0.1928 | 62.800 | 68.789 |
| 2 | 05:00 | 62.9913 | 0.1928 | 62.798 | 68.786 |
| 3 | 05:15 | 62.9883 | 0.1922 | 62.796 | 68.782 |
| 4 | 05:30 | 62.9878 | 0.1933 | 62.795 | 68.778 |
| 5 | 05:45 | 62.9878 | 0.1929 | 62.795 | 68.775 |
| 6 | 06:00 | 62.9863 | 0.1925 | 62.794 | 68.774 |
| 7 | 06:15 | 62.9853 | 0.1931 | 62.792 | 68.759 |
| 8 | 06:30 | 62.9838 | 0.1932 | 62.791 | 68.755 |
| 9 | 06:45 | 62.9823 | 0.1927 | 62.790 | 68.762 |
| 10 | 07:00 | 62.9818 | 0.1932 | 62.789 | 68.755 |
| 11 | 07:15 | 62.9803 | 0.1922 | 62.788 | 68.745 |
| 12 | 07:30 | 62.9793 | 0.1936 | 62.786 | 68.751 |
| 13 | 07:45 | 62.9757 | 0.1912 | 62.784 | 68.750 |
| 14 | 08:00 | 62.9757 | 0.1929 | 62.783 | 68.737 |
| 15 | 08:15 | 62.9732 | 0.1931 | 62.780 | 68.735 |
| 16 | 08:30 | 62.9727 | 0.1920 | 62.781 | 68.725 |
| 17 | 08:45 | 62.9712 | 0.1932 | 62.778 | 68.730 |

********** ILRT TREND REPORT **********

| DATA SET | DEW CELL 1 (Deg F) | DEW CELL 2 (Deg F) | DEW CELL 3 (Deg F) | DEW CELL 4 (Deg F) | DEW CELL 5 (Deg F) | DEW CELL 6 (Deg F) |
|---|---|---|---|---|---|---|
| 1 | 54.782 | 54.801 | 50.347 | 50.640 | 50.235 | 49.459 |
| 2 | 54.841 | 54.747 | 50.354 | 50.624 | 50.280 | 49.508 |
| 3 | 54.957 | 54.414 | 50.140 | 50.642 | 50.236 | 49.514 |
| 4 | 54.942 | 54.830 | 50.468 | 50.662 | 50.257 | 49.449 |
| 5 | 54.789 | 54.823 | 50.383 | 50.666 | 50.289 | 49.432 |
| 6 | 54.853 | 54.515 | 50.343 | 50.665 | 50.253 | 49.408 |
| 7 | 54.879 | 54.693 | 50.410 | 50.735 | 50.293 | 49.559 |
| 8 | 54.864 | 54.841 | 50.470 | 50.643 | 50.334 | 49.502 |
| 9 | 54.815 | 54.650 | 50.300 | 50.672 | 50.331 | 49.513 |
| 10 | 54.866 | 54.762 | 50.427 | 50.729 | 50.352 | 49.556 |
| 11 | 54.731 | 54.371 | 50.245 | 50.717 | 50.408 | 49.572 |
| 12 | 54.837 | 54.859 | 50.650 | 50.717 | 50.387 | 49.577 |
| 13 | 54.702 | 54.136 | 49.832 | 50.761 | 50.361 | 49.472 |
| 14 | 54.794 | 54.507 | 50.558 | 50.758 | 50.415 | 49.420 |
| 15 | 54.786 | 54.644 | 50.509 | 50.773 | 50.369 | 49.610 |
| 16 | 54.707 | 54.222 | 50.129 | 50.801 | 50.437 | 49.632 |
| 17 | 54.380 | 54.879 | 50.747 | 50.788 | 50.463 | 49.522 |

********** ILRT TREND REPORT **********

| DATA SET | DRY BULB 1 (Deg F) | DRY BULB 2 (Deg F) | DRY BULB 3 (Deg F) | DRY BULB 4 (Deg F) | DRY BULB 5 (Deg F) | DRY BULB 6 (Deg F) |
|---|---|---|---|---|---|---|
| 1 | 69.790 | 69.950 | 69.752 | 69.934 | 70.141 | 69.683 |
| 2 | 69.812 | 69.950 | 69.741 | 69.918 | 70.146 | 69.677 |
| 3 | 69.810 | 69.914 | 69.729 | 69.908 | 70.121 | 69.653 |
| 4 | 69.795 | 69.915 | 69.705 | 69.915 | 70.083 | 69.641 |
| 5 | 69.787 | 69.894 | 69.696 | 69.915 | 70.085 | 69.624 |
| 6 | 69.757 | 69.879 | 69.685 | 69.889 | 70.068 | 69.625 |
| 7 | 69.767 | 69.844 | 69.673 | 69.859 | 70.060 | 69.609 |
| 8 | 69.740 | 69.839 | 69.659 | 69.859 | 70.065 | 69.596 |
| 9 | 69.766 | 69.842 | 69.661 | 69.834 | 70.060 | 69.599 |
| 10 | 69.717 | 69.824 | 69.656 | 69.827 | 70.057 | 69.595 |
| 11 | 69.711 | 69.796 | 69.630 | 69.819 | 70.043 | 69.575 |
| 12 | 69.738 | 69.783 | 69.628 | 69.815 | 70.021 | 69.548 |
| 13 | 69.749 | 69.798 | 69.628 | 69.807 | 70.024 | 69.566 |
| 14 | 69.725 | 69.784 | 69.607 | 69.793 | 69.992 | 69.560 |
| 15 | 69.731 | 69.760 | 69.599 | 69.778 | 69.992 | 69.532 |
| 16 | 69.703 | 69.761 | 69.599 | 69.760 | 69.981 | 69.502 |
| 17 | 69.682 | 69.743 | 69.575 | 69.778 | 69.967 | 69.503 |

********** ILRT TREND REPORT **********

| DATA SET | DRY BULB 7 (Deg F) | DRY BULB 8 (Deg F) | DRY BULB 9 (Deg F) | DRY BULB 10 (Deg F) | DRY BULB 11 (Deg F) | DRY BULB 12 (Deg F) |
|---|---|---|---|---|---|---|
| 1 | 69.711 | 69.714 | 69.122 | 69.221 | 68.669 | 69.039 |
| 2 | 69.702 | 69.718 | 69.125 | 69.201 | 68.687 | 69.044 |
| 3 | 69.693 | 69.715 | 69.122 | 69.206 | 68.685 | 69.039 |
| 4 | 69.671 | 69.694 | 69.111 | 69.212 | 68.693 | 69.018 |
| 5 | 69.661 | 69.676 | 69.099 | 69.213 | 68.649 | 69.023 |
| 6 | 69.662 | 69.647 | 69.102 | 69.204 | 68.663 | 69.000 |
| 7 | 69.616 | 69.668 | 69.079 | 69.210 | 68.632 | 69.007 |
| 8 | 69.628 | 69.662 | 69.064 | 69.212 | 68.629 | 69.006 |
| 9 | 69.596 | 69.641 | 69.075 | 69.216 | 68.655 | 69.004 |
| 10 | 69.603 | 69.618 | 69.094 | 69.178 | 68.647 | 68.997 |
| 11 | 69.575 | 69.598 | 69.067 | 69.180 | 68.583 | 68.991 |
| 12 | 69.577 | 69.601 | 69.067 | 69.216 | 68.586 | 68.994 |
| 13 | 69.574 | 69.592 | 69.062 | 69.213 | 68.592 | 68.985 |
| 14 | 69.560 | 69.555 | 69.056 | 69.186 | 68.615 | 68.985 |
| 15 | 69.546 | 69.554 | 69.043 | 69.169 | 68.635 | 68.969 |
| 16 | 69.552 | 69.551 | 69.058 | 69.162 | 68.595 | 68.948 |
| 17 | 69.519 | 69.541 | 69.046 | 69.146 | 68.609 | 68.972 |

********** ILRT TREND REPORT **********

| DATA SET | DRY BULB 13 (Deg F) | DRY BULB 14 (Deg F) | DRY BULB 15 (Deg F) | DRY BULB 16 (Deg F) | DRY BULB 17 (Deg F) | DRY BULB 18 (Deg F) |
|---|---|---|---|---|---|---|
| 1 | 68.766 | 68.617 | 68.635 | 68.414 | 66.967 | 66.168 |
| 2 | 68.681 | 68.614 | 68.638 | 68.396 | 66.973 | 66.192 |
| 3 | 68.719 | 68.611 | 68.637 | 68.397 | 66.984 | 66.183 |
| 4 | 68.724 | 68.618 | 68.644 | 68.417 | 66.995 | 66.207 |
| 5 | 68.800 | 68.615 | 68.640 | 68.403 | 66.989 | 66.195 |
| 6 | 68.837 | 68.621 | 68.653 | 68.420 | 67.007 | 66.203 |
| 7 | 68.753 | 68.602 | 68.632 | 68.402 | 67.004 | 66.194 |
| 8 | 68.698 | 68.623 | 68.638 | 68.397 | 67.012 | 66.194 |
| 9 | 68.797 | 68.611 | 68.626 | 68.434 | 67.022 | 66.226 |
| 10 | 68.760 | 68.608 | 68.638 | 68.431 | 67.030 | 66.239 |
| 11 | 68.759 | 68.627 | 68.655 | 68.412 | 67.025 | 66.220 |
| 12 | 68.864 | 68.620 | 68.666 | 68.406 | 67.028 | 66.224 |
| 13 | 68.803 | 68.624 | 68.649 | 68.438 | 67.041 | 66.233 |
| 14 | 68.707 | 68.609 | 68.666 | 68.446 | 67.059 | 66.233 |
| 15 | 68.743 | 68.629 | 68.653 | 68.438 | 67.056 | 66.249 |
| 16 | 68.679 | 68.620 | 68.663 | 68.438 | 67.057 | 66.250 |
| 17 | 68.818 | 68.623 | 68.678 | 68.440 | 67.056 | 66.246 |

********** ILRT TREND REPORT **********

| DATA SET | DRY BULB 19 (Deg F) | DRY BULB 20 (Deg F) | DRY BULB 21 (Deg F) | DRY BULB 22 (Deg F) | DRY BULB 23 (Deg F) | DRY BULB 24 (Deg F) |
|---|---|---|---|---|---|---|
| 1 | 66.302 | 67.102 | 67.021 | 66.426 | 66.532 | 66.478 |
| 2 | 66.288 | 67.099 | 67.038 | 66.430 | 66.540 | 66.476 |
| 3 | 66.287 | 67.109 | 67.050 | 66.435 | 66.552 | 66.458 |
| 4 | 66.326 | 67.112 | 67.045 | 66.449 | 66.552 | 66.473 |
| 5 | 66.304 | 67.128 | 67.053 | 66.444 | 66.558 | 66.493 |
| 6 | 66.330 | 67.141 | 67.063 | 66.458 | 66.572 | 66.491 |
| 7 | 66.307 | 67.147 | 67.083 | 66.468 | 66.564 | 66.487 |
| 8 | 66.314 | 67.181 | 67.065 | 66.478 | 66.577 | 66.499 |
| 9 | 66.326 | 67.179 | 67.086 | 66.482 | 66.583 | 66.508 |
| 10 | 66.340 | 67.163 | 67.083 | 66.500 | 66.595 | 66.502 |
| 11 | 66.375 | 67.175 | 67.092 | 66.494 | 66.606 | 66.523 |
| 12 | 66.357 | 67.179 | 67.100 | 66.510 | 66.609 | 66.482 |
| 13 | 66.362 | 67.190 | 67.115 | 66.507 | 66.610 | 66.510 |
| 14 | 66.369 | 67.205 | 67.109 | 66.511 | 66.607 | 66.554 |
| 15 | 66.371 | 67.201 | 67.118 | 66.520 | 66.612 | 66.511 |
| 16 | 66.380 | 67.190 | 67.132 | 66.516 | 66.619 | 66.545 |
| 17 | 66.371 | 67.230 | 67.131 | 66.526 | 66.635 | 66.522 |