DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 2

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION
UNIT 2
REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST
(PREOPERATIONAL)

CONDUCTED JUNE 29 - JULY 11, 1985

Prepared By: W M Carwile
W. M. Carwile
Associate Engineer

Reviewed By: R A Jones
R. A. Jones
Test Engineer

Reviewed By: W F Beaver
W. F. Beaver
Performance Engineer

Approved By: J W Cox
J. W. Cox
Superintendent of Technical Services

TABLE OF CONTENTS

I. DEFINITION OF SYMBOLS AND ABBREVIATIONS

ILRT	Integrated Leak Rate Test
E	Repeatability error
e	Absolute error
Σ	Measurement system error
°F	Temperature, degrees Fahrenheit
FOM	Figure of Merit
L_a	0.20% by weight of the containment air per 24 hours at P_a, 14.68 psig
L_{am}	Measured overall integrated containment leakage rate. It is $\leq$ 0.75 L_a
L_t	Maximum allowable reduced pressure (7.34 psig) test leak rate. Determined during the preoperational test and is equal to L_a (L_{tm}/L_{am}) with $L_{tm}/L_{am} \leq 0.7$
L_{tm}	Measured overall integrated containment leakage rate during reduced pressure test. It is $\leq$ 0.75 L_t
LR	Total observed leak rate during the ILRT.
LR(95%)	95% upper confidence level of observed leak rate of the containment vessel
L_{aux}	Leak rate of all penetrations, valves, flanges which cannot be exposed to test pressure.
L_c	Total observed leak rate during the supplemental test
L_o	The known leakage rate superimposed on the containment during the supplemental test.
LLRT	Local leak rate test
P	Pressure
P_a	Design accident pressure
psia	absolute pressure
psig	Gauge pressure

°R	Temperature, degrees Rankine
SIT	Structural integrity test
T	Temperature
T_{dp}	Dew point temperature
t	Time
V	Containment volume, cubic feet

II. INTRODUCTION

The purpose of this report is to provide adequate information so that an objective review of the test can be performed. This will ensure that the test results reflect truly the leakage characteristic of the as-built containment. In conformance with the Appendix J of 10CFR50 and associated ANSI standards, the absolute method and mass-plot techniques, which require monitoring the containment vessel temperature and pressure to determine the change in containment vessel air mass caused by leakage, are used as the framework for selecting test equipment, developing test computer programs and test procedures.

The Catawba Unit 2 Containment System consists of a containment vessel and a separate reactor building enclosing an annulus. The following containment vessel specifications are used as base data for the containment leak rate test.

- Containment Net Free Volume	1,216,173 ft^3 (no ice loaded)
- Design pressure	15 PSIG
- Calculated Peak Accident Pressure	14.68 PSIG
- Test Pressure	$\geq$ 14.68 PSIG for Full Pressure Test
- Test Temperature	Ambient

51 Resistance Temperature Detectors, 3 Dewpoint hygrometers and 3 pressure sensors are installed at predetermined locations in the containment vessel to determine the weighted averages of containment vessel temperature, vapor pressure and pressure. The Catawba containment vessel leak rate test utilizes a fully automatic Data Acquisition System. All raw test data is scanned, printed and recorded on Cassette tape automatically to minimize uncontrolled random errors. Assigned engineers of Duke Power Company were responsible for drafting and conducting the test. Two 12-hour shift crews which consisted of one shift coordinator, one shift engineer, and two technicians were utilized to maintain 24 hour test activity.

Pressurization for the Catawba Unit 2 ILRT was accomplished by 3 diesel driven portable air compressors/dryers rented from Atlas-Copco. Two compressors were rated at 900 cfm @ 120 psig and one was rated for 1200 cfm @ 120 psig. These compressors supplied air directly to Upper and Lower Containment and to the Ice Condenser through a 40°F dewpoint dryer. When the test was completed, the containment vessel was depressurized through the containment hydrogen sample and purge system in the annulus and the containment air release and addition system in the Auxiliary Building. The release rate can be controlled if the air is contaminated. Section IX, Figures 2 and 3 show the pressurization and depressurization path used in this test.

III. TEST PURPOSE

The purpose of the Preoperational Containment Integrated Leak Rate Test is to determine the leak rate of the containment vessel under controlled test conditions; to verify that there were no unidentified openings in the containment vessel due to incomplete construction; and to evaluate the possibility of accurately measuring the containment leak rate in a shorter period of time and/or at a reduced pressure.

The containment vessel was preconditioned to provide test conditions which satisfy the following:

- The vessel is under a calculated accident pressure of 14.68 psig for the Full Pressure Test.

- Air temperature and pressure are stable to avoid biasing the leakage characteristics.

- The containment vessel and all penetrations are lined up as close as possible to the predicted post-accident condition; i.e., those portions of the fluid system that are part of the reactor coolant pressure boundary and are opened directly to the containment atmosphere under post-accident conditions and become an extension of the boundary of the containment shall be opened or vented to the containment atmosphere prior to and during the test.

The test utilized highly accurate sensors and an automatic data system to assure the accuracy and quality of the test data.

Statistical and error propagation analyses are performed on the test data to ensure that the test results are reliable and accurate.

IV. SUMMARY

The Containment Vessel Integrated Leak Rate and Structural Integrity Test was initiated on 6/29/85 and completed on 7/9/85. It was conducted in compliance with the Catawba FSAR and Title 10, Code of Federal Regulations, Part 50, Appendix J, which states that the containment vessel is subject to a test to assure that an acceptable upper limit of leakage of radioactive material is not exceeded under design accident basis.

The vessel was initially pressurized up to 16.618 psig (110.8% of design pressure) and held for 10 minutes for the Structural Integrity Test. Pressure was then reduced to $\leq$ 85% of P_T and held for $\geq$ 24 hours to allow for outgassing. Pressure was then increased to $\geq$ 7.34 psig and the reduced pressure test was begun at 0215 on 7/2/85 after a > 4 hour temperature stabilization period. After obtaining 22 hours worth of what appeared to be acceptable results, the data aquisition equipment began to fail. Values were reading correctly on the digital display, but were being randomly changed as they were relayed to the data logger. Due to this problem and the fact that a half-pressure test was not required, the half pressure test was aborted and efforts concentrated on repairing the equipment.

Pressure was then increased to $\geq$ 14.68 psig and the full pressure ILRT was begun at 0415 on 7/6/85 after a > 4 hour temperature stabilization period. The data was recorded manually from the digital output display and edited if necessary, on the computer. The test was evaluated as acceptable at 0745 on 7/8/85 using 27.5 hours of test data with the following results:

LR = 0.1202962%/Day
LR(95%) = 0.1255774%/Day

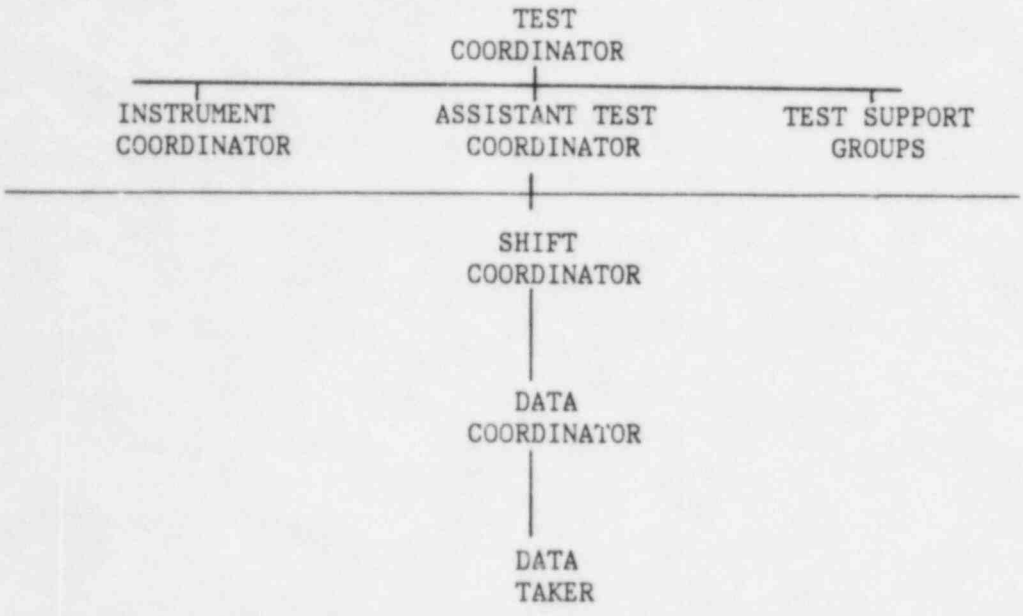
The 95% UCL was less than the acceptance criteria of 0.15%/day.

The supplemental verification test began at 0735 on 7/8/85 and was determined acceptable at 1835 on 7/8/85 with an observed leak rate of 0.3018148%/day.

This test was conducted per test procedure TP/2/A/1200/06, Containment Initial Integrated Leak Rate Test and Structural Integrity Test.

V. TEST ORGANIZATION

In order to assure that the test is conducted in a safe and efficient manner, assigned personnel are organized as shown and their responsibility defined.



Test Coordinator: His lead responsibility is to provide overall planning and efficient execution of the test. He is also to provide same support to his 12 hour shift.

Assistant Test Coordinator: His lead responsibility is to assume test coordinator responsibilities during his 12 hour shift.

Instrumentation Coordinator: His responsibility is to provide test equipment maintenance support to Test Coordinator.

Test Support Groups: Their responsibilities are to furnish technical support to Test personnel as required in conducting the ILRT, solving test problems, and minimizing schedule delays.

Shift Coordinator: Assume general responsibility for ILRT execution on a shift basis.

Data Coordinator: His lead responsibility is to process and edit raw data.

Data Taker: Record data accurately at correct intervals.

VI. TEST BACKGROUND INFORMATION

A. Test Method: The absolute method of leakage rate testing is used for the Catawba test. This requires the determination and calculation of air losses by the containment vessel leakage over a stated period of time by the means of direct pressure, temperature and dewpoint observations during the period of the test. Sensors are properly located to provide an average value of the containment vessel temperature and pressure. The effect of the partial pressure of water vapor is measured and compensated.

Upon completion of the 24 hour leak rate test, a test is performed to verify the accuracy of the leak rate test. This requires superimposing a controlled and measurable leak on the containment vessel and the composite leakage of both the containment vessel and the superimposed leak is measured. The difference between the result of the leakage measurement obtained prior to the introduction of the superimposed leak and that of the composite leak determines the accuracy of the leak rate test.

The test environment is simulated as close to that of designed accident basis as possible. All portions of the fluid systems that are postulated as opening directly to the containment or outside atmosphere under post-accident conditions are opened or vented during the test except systems required to maintain the plant in safe conditions during the test.

The test pressure is the calculated design basis accident pressure of 14.68 psig for the full pressure test.

B. Calculation Technique: Mass of the containment vessel air volume is calculated by the Ideal Gas Law for 24 consecutive hours and plotted against time. The leak rate is obtained by a linear least square fit to the mass plot graph. The 95% confidence upper limit of the leak rate is calculated by applying the Student T Distribution Test on the leak rate test result. This upper limit is compared with the acceptance criteria to determine the completion of the test. See also Appendix A.

C. Test Activity Flow Chart: Figure 1, Containment Pressure versus Time provides an overall look of the test activities. This provides information for test planning and test execution.

D. Test Acceptance Criteria And Test Results

1.a. Structural Integrity Test Acceptance Criteria:

The Containment Structural Integrity Test is acceptable if a pressure of at least 16.5 psig is maintained for 10 minutes without any apparent changes in appearance of or other abnormal degredation of the containment vessel surfaces.

The Reactor Building Structural Integrity Test is acceptable if a visual inspection detects no abnormal degredation or changes in appearance.

1.b. Structural Integrity Test Results:

No apparent changes in appearance or abnormal degradation of the containment vessel surfaces were detected after a > 10 minute hold at 16.618 psig.

The Reactor Building Inspection detected no abnormal degradation or changes in appearance.

2.a Hot Penetrations Leakage Test Acceptance Criteria:

The hot penetration soap bubble test detects no leakage for those penetrations listed in the test procedure per Tech Spec 4.6.1.2.e.

2.b Hot Penetrations Leakage Test Results:

No leakage was detected for those penetrations listed in the test procedure.

3.a. Full Pressure Test Acceptance Criteria:

The measured overall integrated containment leakage rate (L_{am}) is less than or equal to 0.75 L_a with the test pressure $\geq$ 14.68 psig. $L_{am} \leq 0.75\ L_a$ where L_a = 0.20 percent by weight of the containment air per 24 hours @ P_a (14.68 psig) $L_{am} \leq 0.15\%/Day$.

Also, $L_{am} = LR(95\%) + L_{aux}$

where LR(95%) = 95% Upper Confidence Level of observed leak rate of the Containment Vessel

and L_{aux} = Leak rate of all penetrations, valves, flanges which cannot be exposed to test pressure due to system operation.

The difference between the supplemental verification test and the total observed leak rate is within 0.25 L_a:

$$\left|(L_c - L_o) - LR\right| \leq 0.25\ L_a$$

Where L_c = Total observed leak rate during supplemental test

L_o = The known leakage rate superimposed on the containment during the supplemental test

The quantity of air bled from containment during the supplemental test must be equivalent to 75 to 125% of the leakage rate L_a.

$0.75\ L_a \leq L_o \leq 1.25\ L_a$

3.b Full Pressure Test Results:

24-Hour Test Result (0415, 7/6/85 to 0744, 7/7/85)

LR = 0.1202962 %/Day

LR(95%) = 0.1255774 %/Day

The following penetration were not exposed to test pressure due to system alignment required by ILRT. They were Type C tested and the leakage added to L_{aux}.

Penetration #	System	Reason
M204	VQ	Flowpath for turbine flowmeter during imposed leak rate test.
M346	VY	Relief valve for containment connected to this penetration.
CNIP-2MI5	MI	ILRT Pressure sensing line.
CNIP-2MI6	MI	ILRT Pressure sensing line.
CNIP-2MI7	MI	ILRT Pressure sensing line.

The following penetrations were not exposed to test pressure due to an exemption from venting and draining in Supplement 3 to the Catawba SER. These penetrations contain a "reverse" check valve for overpressurization protection and process containment isolation valves receiving seal injection water. Therefore the reverse check valve is Type C tested and the results added to L_{aux}.

Penetration #	System
M256 (2NV90 only)	NV
M230 (2RN485 only)	RN
M308 (2RN430 only)	RN
M221 (2WL868 only)	WL
M345 (2WL806 only)	WL
M359 (2WLA22 only)	WL
M374 (2WL321 only)	WL

The following penetrations were not exposed to test pressure due to following reasons:

Penetration #	System	Reason
CNIP-2NS10	NS	Pressure transmitter 2NSPT5260 was an exception to turnover and was not installed prior to ILRT. The transmitter was Type C tested after ILRT and the results added to L_{aux}.
M240	RN	This penetration has the outside isolation valve supplied by NW. The inside check unit is type C tested. However, it was noticed to be leaking excessivly prior to beginning the 24 hour leak rate test and so the penetration was isolated. Maintenance was performed on 2RN438 and valve internals were rebuilt/ replaced. A Type C test was performed on 2RN438 and results were added to L_{aux}.
M321 (2KC279 only)	KC	Exempted from venting and draining since both containment isolation valves receive seal injection water. A reverse check valve bypasses this inside containment isolation valve. This check valve is Type C tested and results added to L_{aux}. The NRC was notified that this penetration would be exempted from venting and draining for Type A testing per letter from H. B. Tucker to Harold R. Denton, dated July 30, 1985, File No.: CN-801.01.
Upper Air Lock Emerg. Air Peneration	IAE	Pressurization fixture was installed on penetration to allow entry into containment during inspections. Type B test results were added to L_{aux}.

Penetration	System	Leakage (sccm)		%/Day sccm		Leakage %/Day
M308	RN	1	x 2.1476×10^{-8}		=	2.1476×10^{-8}
M221	WL	1	x 2.1476×10^{-8}		=	2.1476×10^{-8}
M345	WL	1.8	x 2.1476×10^{-8}		=	3.8657×10^{-8}
M359	WL	1.6	x 2.1476×10^{-8}		=	3.4362×10^{-8}
M374	WL	49.4	x 2.1476×10^{-8}		=	1.0609×10^{-6}
M240	RN	13	x 2.1476×10^{-8}		=	2.7919×10^{-7}
M321	KC	1	x 2.1476×10^{-8}		=	2.1476×10^{-8}
CNIP-2NS10	NS	1.8	X 2.1476×10^{-8}		=	3.8657×10^{-8}
Upper Air Lock Emerg. Air Penetration	IAE	3.16	x 2.1476×10^{-8}		=	6.7864×10^{-8}

Total L_{aux} = 3.3279×10^{-6} %/Day

Therefore,

L_{am} = LR(95%) + L_{aux}

= 0.1255774%/Day + 3.3279×10^{-6} %/Day

= 0.1255807 %/Day

Which is within Acceptable Criteria of $\leq$ 0.15%/Day

Supplemental Verification Test Results:

L_c = 0.3018148%/Day

L_o = 0.200003%/Day

LR = 0.1202962%/Day

$$\left|(L_c - L_o) - LR\right| \leq 0.25\ L_a$$

$$\left|(0.3018148-0.20003) - 0.1202962\right| \leq 0.050\%/Day$$

$0.0185 \leq 0.050\%/Day$
which is within Acceptance Criteria

$$0.75\ L_a \leq L_o \leq 1.25\ L_a$$

$0.75\ (0.20) \leq 0.200003 \leq 1.25\ (0.20)$

$0.15\%/Day \leq 0.200003\%/Day \leq 0.25\%/Day$
Which is within Acceptance Criteria.

E. RESULTS OF TYPE B AND C LEAK RATE TESTS

Test	Final Conservative Test Results	
PT/2/A/4200/01C, Isolation	2006.6	sccm
Valve Leak Rate Test =	4.3411×10^{-5}	%/Day
PT/2/A/4200/41A, Containment	3395.8	sccm
Purge Isolation Valve Leak Rate Test =	7.293×10^{-5}	%/Day
PT/2/A/4200/41B, VQ Penetration	80.0	sccm
Leak Rate Test =	1.7181×10^{-6}	%/Day
PT/2/A/4200/01D, Fuel Transfer	1.0	sccm
Tube Leak Rate Test =	2.1476×10^{-8}	%/Day
TP/2/A/1200/18, Upper Cont.	1683	sccm
Personnel Lock Leak Rate Test =	3.6144×10^{-5}	%/Day
TP/2/A/1200/19, Lower Cont.	1861	sccm
Personnel Lock Leak Rate Test =	3.997×10^{-5}	%/Day
PT/2/A/4200/01H, Equipment Hatch	14.5	sccm
Leak Rate Test =	3.1140×10^{-7}	%/Day
PT/2/A/4200/01B, Electrical	271.4	sccm
Penetration Leak Rate Test =	5.8286×10^{-6}	%/Day
PT/2/A/4200/01P, NF Penetration	4.2	sccm
Leak Rate Test =	9.020×10^{-8}	%/Day
PT/2/A/4200/01R, M301 Penetration	2.8	sccm
Leak Rate Test =	6.013280×10^{-8}	%/Day

VII. TEST EQUIPMENT

The ILRT instrumentation system is designed to accurately record test parameters. The system consists of a central data acquisition system with a remote scanner/multiplexer unit and individual temperature, pressure, and dewpoint sensors. All RTD's are wired to the remote scanner/multiplexer unit located inside containment. The signals are then multiplexed and sent to the central data acquisition facility. All other sensors are wired directly to the data acquisition facility located outside containment in a test van.

A. Instrument Specifications

Precision Pressure Gauges are Ruska Model 6000-801-40 PSIA gauges.

Range: 0 to 40 PSIA Repeatability - 24 Hr: ± .0008 PSI:
90 Day: ± .0016 PSI

Accuracy: ± (.008% Full Scale + .012% Reading) or better, traceable to NBS

Output: Direct digital output plus BCD parallel signal for recording.

The Dewpoint Temperature Analyzers are General Eastern system 1200 AP sensors with Model 700 aspirators.

Range: -40 to +120°F Dewpoint Repeatability -±.05°F

Accuracy: ±.4°F dewpoint, traceable to NBS

Output: Direct digital readout plus 0-50 mV signal recording

The Resistance Temperature Detectors are Leeds & Northup Catalog Number 178055

Range: -100 to +250°F

Accuracy: ±.40°F over 32 to 100°F

Element: Copper

Resistance: 10 ohms at 77°F

Section IX, Figure 5 shows placement of RTD's while Section X gives their general locations.

The Turbine Flowmeter is a Flow Technology Model FTC-8C5.0-GJS Flocapsule with Model PRI-402A Flow Rate Monitor.

Range: 0.5 to 5 ACFM Repeatability - ±.25% FS

Accuracy: ±0.2%, Traceable to NBS. ±.0125 ACFM

Output: Visual display plus 0-5 VDC signal for recording

The Data Acquisition Facility is a Leeds and Northup Catalog Number 70072-409-4999-6-000000-0600-00-001-301-099 Digital Data Surveillance Facility with the following features:

- Numation Numeric Display
- Scanner/Programmer
- Digital Printer
- Digital Clock
- Cassette Tape Recorder

Section IX, Figure 4 shows the test instrumentation set-up.

B. Computer Program

To provide on-line data analysis, a computer program is developed using formulas and methods specified in Appendix A. The Leak Rate Test Program (LRT) reads instrument readings from a magnetic tape cassette taken from the data recorder on the Digital Data Surveillance Facility (DDSF). The raw data from the tape is calibrated using quadratic curve fits. This calibrated data is then checked for validity. Using the mass plot analysis method, the calibrated verified data is processed to yield a normalized weight which is the ratio of the mass of air in the containment at the present time to that which was initially present when the test began. Linear regression and confidence interval calculations are then performed to determine whether the results have coveraged sufficiently to yield an accurate indication of the actual containment leak rate.

Using the terminal procedures detailed in the user documentation, the test administrator can run the program from any teletype-compatible terminal device having magnetic tape cassette capability. The program is designed for interactive processing so that at each step the user will be queried as to how he wishes the work to be accomplished. Instrument parameters and readings can be entered into the computer system either automatically from cassette or manually from the terminal keyboard. If any errors are detected in the data, then the user will have the option of correcting the specific error on the computer instead of re-entering all of the data.

All data stored in the computer is protected by a password selected at the beginning of the test and must be specified each time the program is run to gain access to the data. This provides some measure of protection against inadvertent intrusion during the conduct of the test. At the conclusion of the test all of the stored data, from raw instrument readings through intermediate results to the final results, will be copied to an archival storage medium to satisfy long-term retention requirements of regulatory agencies. The archives can be placed on active storage at any time to verify calculations or generate reports.

C. Instrument Error Analysis

(Equations used in the section can be found in ANS N274, Draft Revision 3, November 15, 1978)

Symbols:

FOM = Instrument Figure of Merit (%/day)
t = Test duration (hrs)
P = Test pressure (PSIA) (use 14.68 psig for Full Pressure Test, 7.34 psig for Reduced Pressure Test)
P_v = Vapor pressure at test time (PSIA)
T = Cont. weighted average absolute test temp. (°F) (Assume 76.63°F)
e = Error associated with measurement of change
E = Sensor error (Sensitivity)
Σ = Measurement system error excluding sensor

1. Pressure:

No. of sensors = 3
Range 0 - 40 PSIA

Sensor Error (E_p) = ± 0.008%FS = 0.0032 PSIA

Measurement system repeatability error (Σp) = ±0.002%FS = 0.0008 PSIA

$$e_p = \pm \frac{[(E_p)^2 + (\Sigma_p)^2]^{\frac{1}{2}}}{(3)^{\frac{1}{2}}} = \pm 0.0019044 \text{ PSIA}$$

2. Vapor Pressure:

No. of sensors = 3
Range -40°F to 120°F

Sensor Error E = ±0.40°F or ± .001268 PSIA*

Measurement System Error (Σ) = ±0.05°F or ±.0001585 PSIA*

$$e_{P_v} = \frac{[(.001268)^2 + (.0001585)^2]^{\frac{1}{2}}}{(3)^{\frac{1}{2}}} = \pm .0007378 \text{ PSIA}$$

*At dewpoint of 36°F, the rate of vapor pressure change per 1°F is .00317 PSIA/°F

3. Temperature

No. of Sensor = 52*

Sensor Error = ± 0.40°F or ± 0.40°R

Measurement System Error = ± .15°F or ± .15°R

$$e_T = \pm \frac{[(.4°R)^2 + (.15°R)^2]^{\frac{1}{2}}}{(52)^{\frac{1}{2}}} = \pm .0592420°R$$

*Although only 51 were used during the test due to one RTD giving an open signal.

4. FOM (Figure of Merit)

$$FOM = \pm \frac{2400}{t}\left[\left(2\frac{e_p}{p}\right)^2 + 2\left(\frac{e_{PV}}{p}\right)^2 + 2\left(\frac{e_T}{T}\right)^2\right]^{1/2}$$

$$= \pm \frac{2400}{24}\left[2\left(\frac{.0019044}{29.376}\right)^2 + 2\left(\frac{.0007378}{29.376}\right)^2 + 2\left(\frac{.0592420}{536.3}\right)^2\right]^{1/2}$$

= ± .0184585% per day for Full Pressure Test
(Note that value is $\leq 0.25L_a = 0.05$)

These FOM values indicate that test instrument repeatability is adequate to provide a precision measurement of maximum allowable leak rate for both Full and Reduced Pressure Leakage Tests.

Random errors on test results were analyzed under 95% confidence analysis and incorporated into the test results for acceptance verification.

The test also underwent the required accuracy test at the end of the 24 hour ILRT and met the Acceptance Criteria (See test results).

VIII. CONCLUSION

With all conservative factors built in the test results analysis, the following conclusions were made on the Catawba Unit 2 ILRT:

1. Catawba Unit 2 Containment Vessel is capable of safely containing fission products under designed accident conditions.

2. With a properly controlled test environment, test acceptance could be attained much earlier than the 24 hour minimum required time for a 24-hour test.

3. No unidentified opening in the Catawba Unit 2 Containment vessel exists due to incomplete construction.

IX. ILRT FIGURES

1. Containment Pressure vs Time
2. RTD Locations and Pressurization/Depressurization Paths
3. Pressurization System
4. Test Instrumentation System

FIGURE 1

Containment Pressure Vs. Time

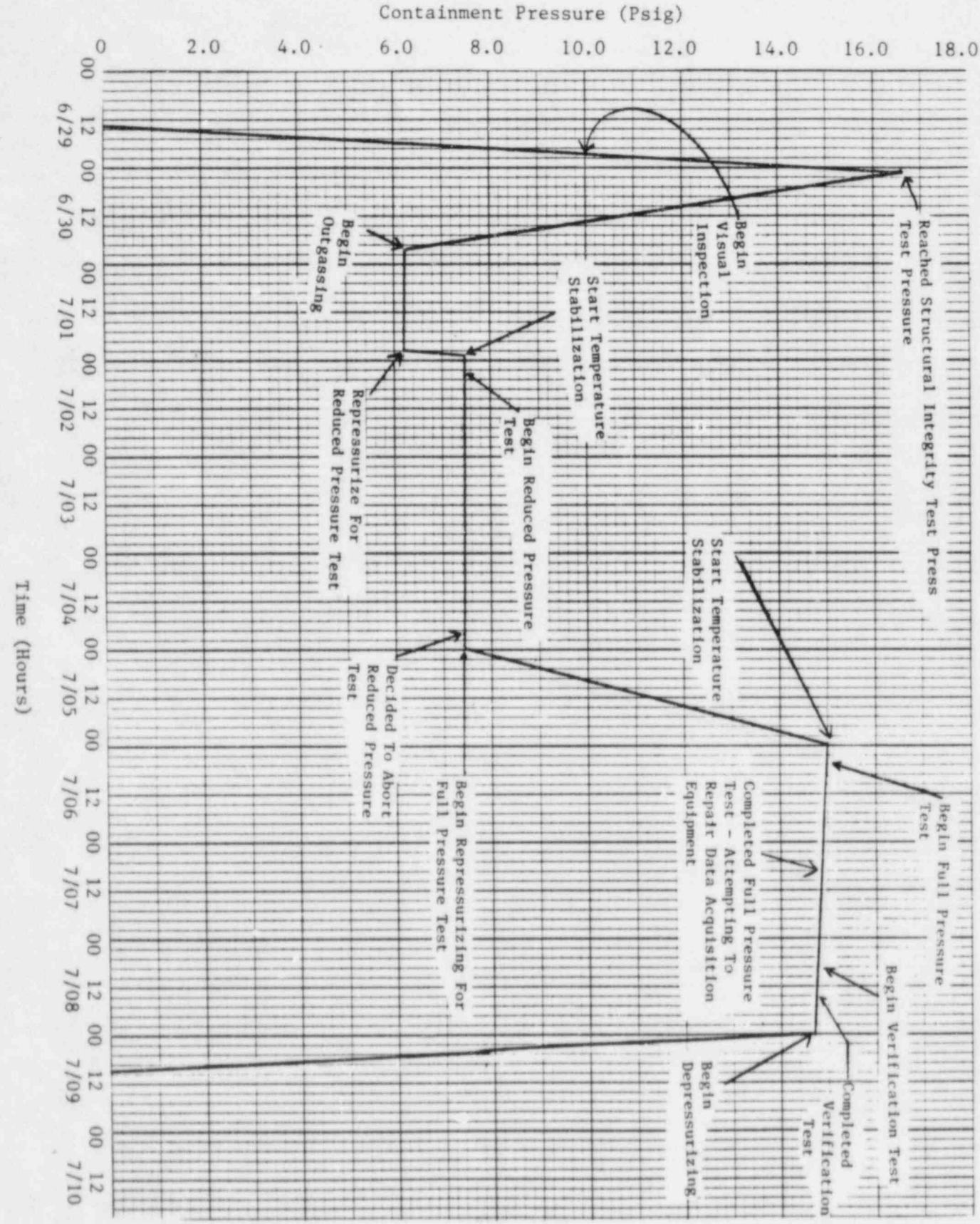
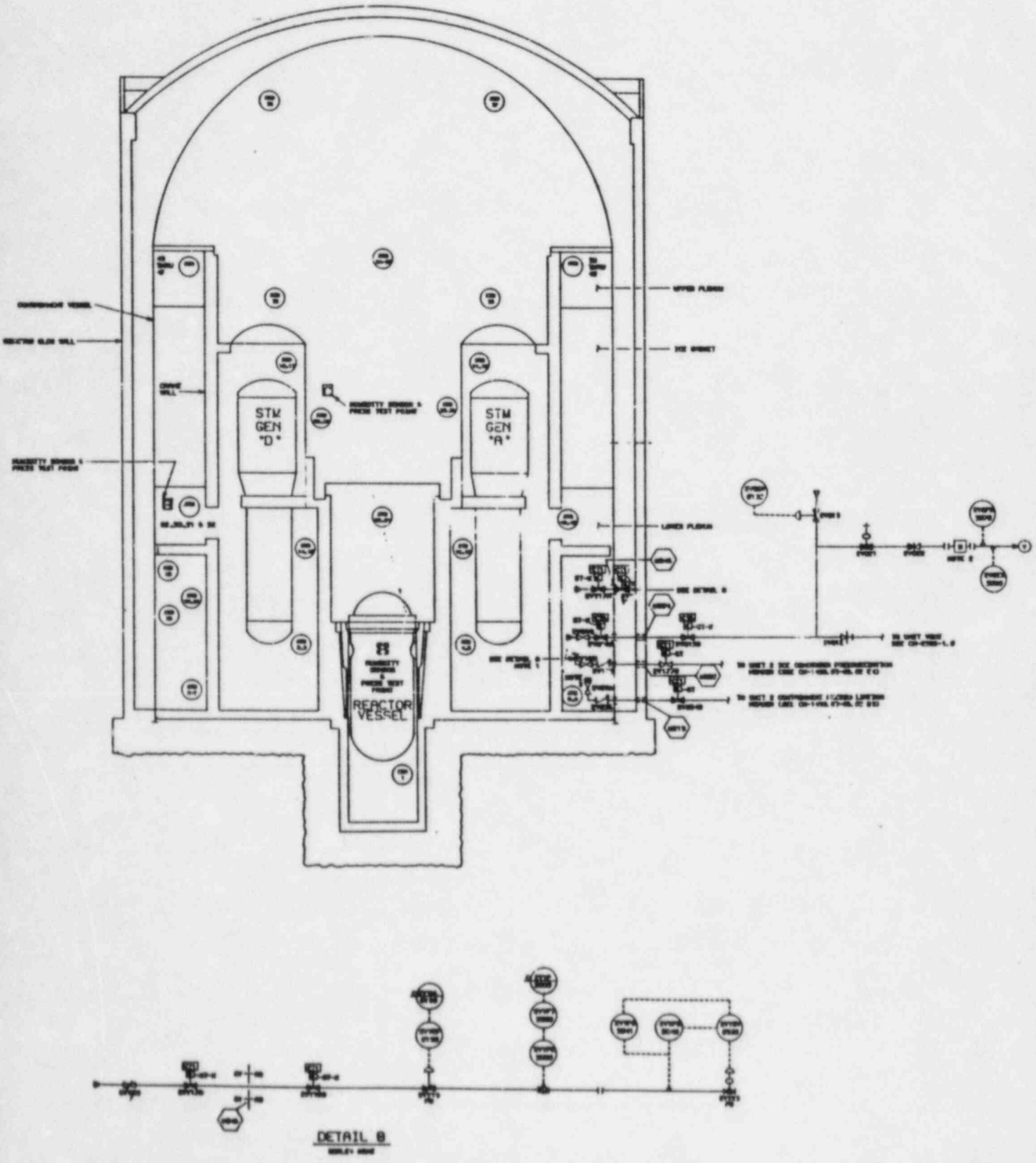


FIGURE 2

RTD Locations and Pressurization/Depressurization Paths



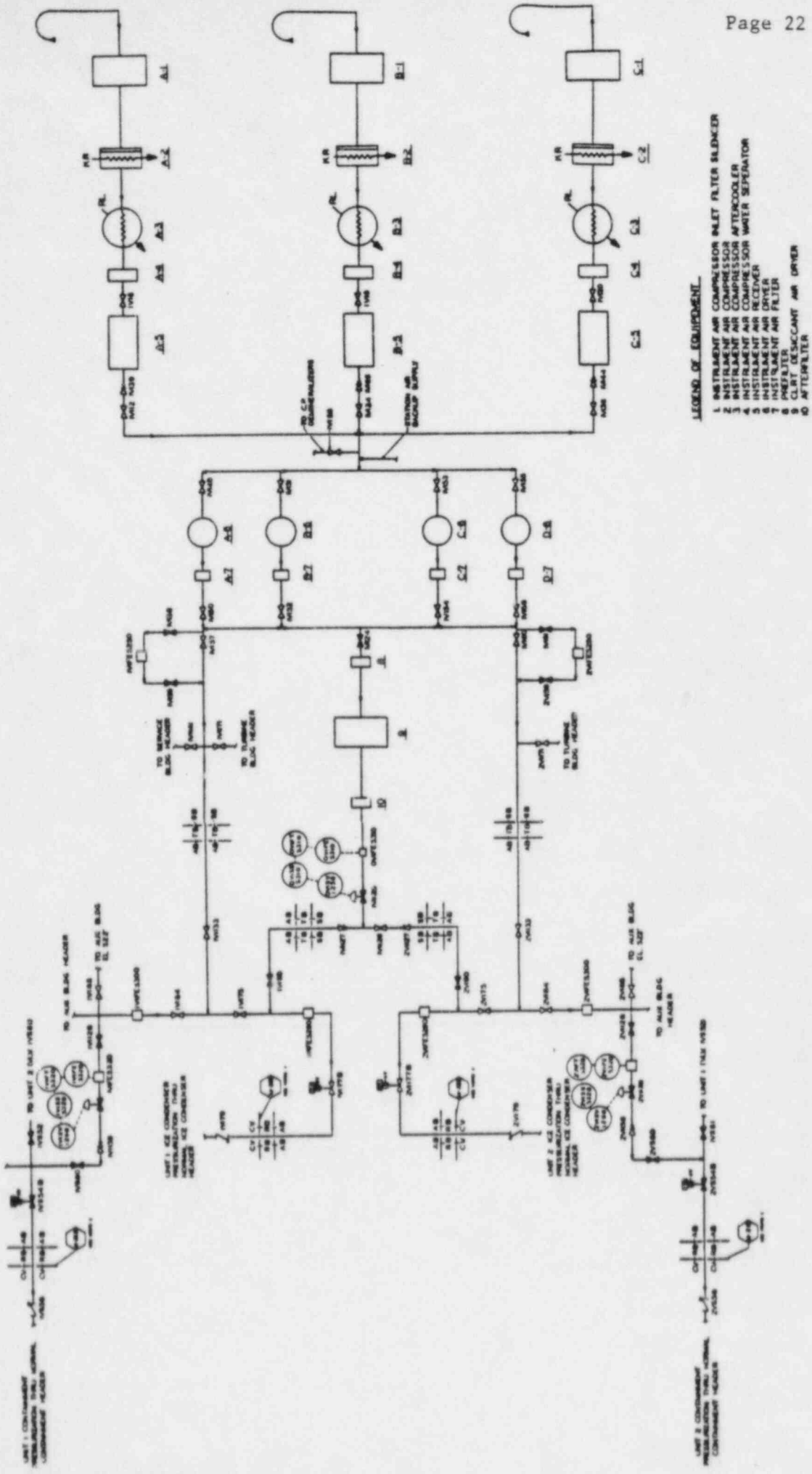


FIGURE 3

Pressurization System

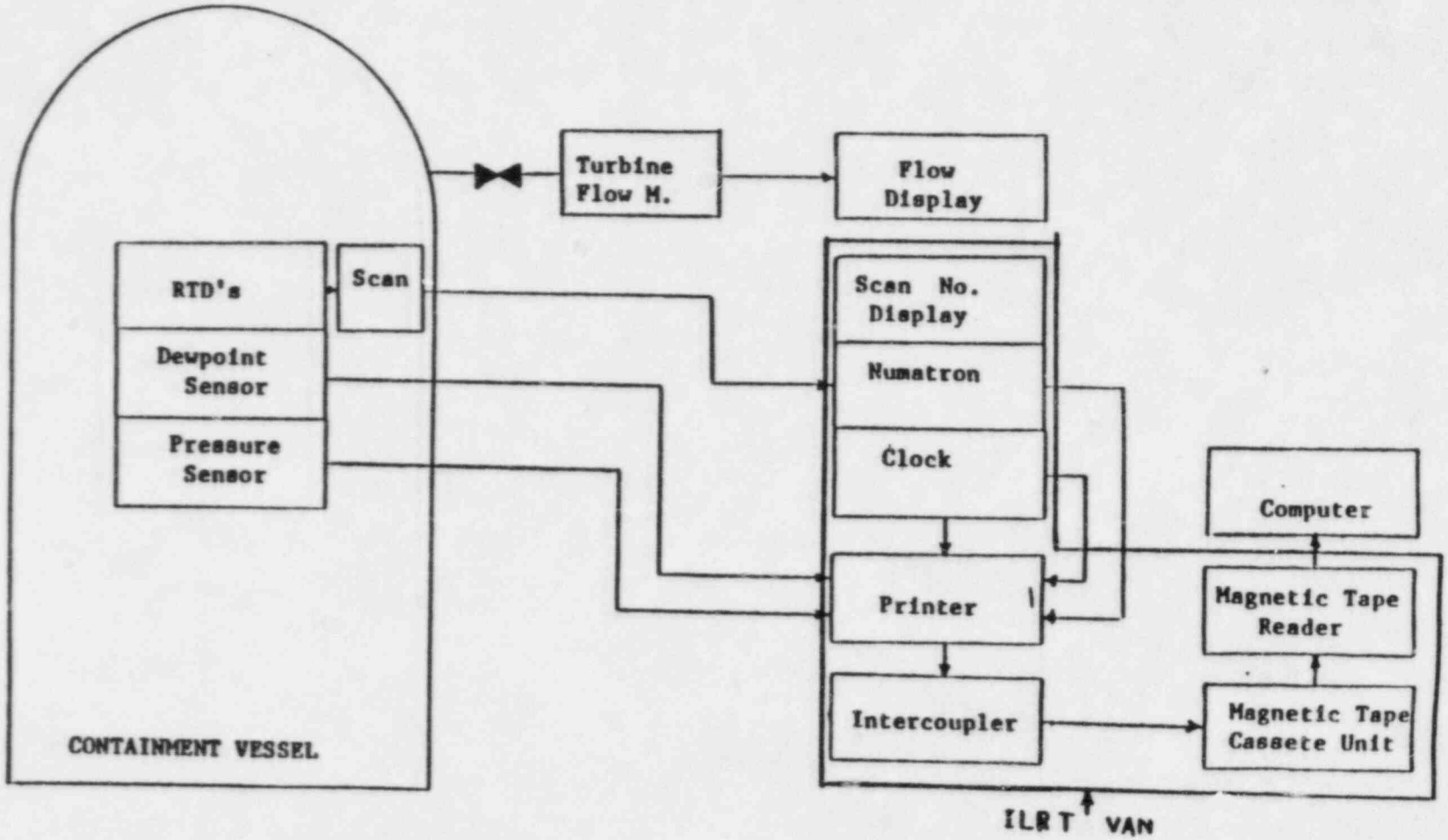


FIGURE 4
Test Instrumentation System

X. RTD LOCATIONS

LOWER CONTAINMENT (CONTAINMENT VOLUME FRACTION = 0.2612)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTION
1	Wall mounted in incore inst. area	0.0528
2	S.G. D lower support structure el. 570'	0.0530
3	S.G. A lower support structure el. 570'	0.0530
4	S.G. B lower support structure el. 570'	0.0530
5	S.G. C lower support structure el. 570'	0.0530
6	Wall mounted in tunnel area	0.0327
7	Wall mounted in tunnel area	0.0327
8	Wall mounted in tunnel area	0.0327
9	Wall mounted in tunnel area	0.0327
10	On top of S.G. 2D	0.0530
11	On top of S.G. 2C	0.0530
12	On top of S.G. 2B	0.0530
13	On top of S.G. 2A	0.0530
14	On top of NC Pump 2D	0.0530
15	On top of NC Pump 2A	0.0530
16	On top of NC Pump 2B	0.0530
17	On top of NC Pump 2C	0.0530
18	In Accumulator Room 2D	0.0120
19	In Accumulator Room 2C	0.0101
20	In Accumulator Room 2B	0.0116
21	In Accumulator Room 2A	0.0116

RTD #	GENERAL LOCATION	CONTAINMENT VOLUME FRACTION
25	Column mounted in incore instrumentation area	0.0533
26	Column mounted near lower containment vent	0.0419
27	Column mounted near lower containment vent	0.0399

UPPER CONTAINMENT (CONTAINMENT VOLUME FRACTION = 0.5734)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTION
28	On concrete housing for S.G. 2D	0.0590
29	On concrete housing for S.G. 2A	0.0590
30	On concrete housing for S.G. 2B	0.0590
31	On concrete housing for S.G. 2C	0.0590
32	On wall between S.G. 2A & 2D	0.1150
33	On wall between S.G. 2B & 2C	0.1150
34	On wall below crane track el. 665'	0.1100
35	On wall below crane track el. 665'	0.1100
36	On cont. spray piping 31'6" of center el. 707'	0.0950
37	On cont. spray piping 31'6" of center el. 707'	0.0950
22	Wall mounted in room with air return fans	0.0200
23	Mounted on ladder support in reactor cavity	0.0590
24	Mounted on ladder support in reactor internals storage area	0.0450

ICE CONDENSER (CONTAINMENT VOLUME FRACTION = 0.1654)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTION
38-43	Evenly spaced around the upper plenum area el. 669'	0.0538 Each
44-47	Evenly spaced around the upper plenum area	0.0539 Each
48-49	Evenly spaced around the lower plenum area el. 600'	0.0882 Each
50	Lower plenum area el. 600'	0.1385
52	Lower plenum area el. 600'	0.1384

APPENDICES

APPENDIX A

DERIVATIONS AND FORMULAS FOR CATAWBA CONTAINMENT LEAK RATE COMPUTATIONS

This appendix presents derivations of formulas used to develop the Catawba leak rate computer program.

DEFINITION OF SYMBOLS

P = Absolute pressure in the Containment Vessel (PSFA)
T = Weighted average absolute temperature of the Containment Vessel air compartment (°R)
W_i = Normalized mass of containment vessel air at i^{th} data point (dimension less)
P_v = Partial pressure of water vapor (PSFA)
t = time (min)
V_k = Assigned volume fraction of k^{th} sensor (Fraction of volume)
T_k = Recorded temperature of k^{th} sensor (°R)

W_i = Estimated value of W_i in the least square fit calculation
b = Slope of the least square fit line (fraction/min.)
LR(95%) = 95% confidence value of LR
LR = Measured containment leakage rate (%/day)
a = y intercept of the least square fit line (dimensionless)
S_W^2 = the variance of W_i

S_b^2 = the variance of b

SUBSCRIPTS

u = upper containment compartment
L = lower containment compartment
I = Ice Condenser compartment
v = vapor
1 = data point at start of test
i = i^{th} data point (i = 1 to N)
N = Final data point of a given set
k = k^{th} sensor

MASS PLOT CALCULATION AND STATISTICAL TREATMENT OF LEAK RATE DATA

Normalized Containment Vessel Air Mass

The air mass of the Containment Vessel is calculated using ideal gas law compensated for partial water vapor pressure. Air mass of 3 compartments (lower, upper, Ice) are determined separately and combined to yield the whole Containment Vessel to simplify the calculation. Normalization of W_i is applied by taking the ratio of the i^{th} value and that of the initial value.

The values 0.5734, 0.2612, 0.1654 are the assigned volume fraction for upper containment, lower containment and Ice Condenser

The average temperature T at each compartment is calculated as the sum of the volume weighted recorded temperatures.

$$W_i = \frac{0.5734\left(\frac{P-P_v}{T}\right)^i_u + 0.2612\left(\frac{P-P_v}{T}\right)^i_L + 0.1654\left(\frac{P-P_v}{T}\right)^i_I}{0.5734\left(\frac{P-P_v}{T}\right)^1_u + 0.2612\left(\frac{P-P_v}{T}\right)^1_L + 0.1654\left(\frac{P-P_v}{T}\right)^1_I}$$

$$T = \sum^{T\ V}_{k\ k}$$

k = 1 to 21, 25 to 27 for lower containment

k = 22 to 24, 28 to 37 for upper containment

k = 39 to 52 for ice condenser

See Section X for volume fraction of each sensor.

Leakage Rate of the Containment Vessel

The graph of W_i versus time is least square fitted to yield an estimated straight line. The rate of the containment vessel air mass loss (or the containment vessel leak rate) is the slope b of the least square fitted line $\hat{W}_i$:

$$\hat{W}_i = bt_i + a$$

The value of a and b can be determined by taking the first partial derivation of the sum of square of deviation Q ($Q = \Sigma (W_i - \hat{W}_i)^2$ with respect to a and b and minimize them:

$$\frac{\delta Q}{\delta a} = \frac{\delta\left[\Sigma (W_i - \hat{W}_i)^2\right]}{\delta a} = 0$$

$$\hat{W}_i = bt_i + a$$

$$W_i - \hat{W}_i = W_i - bt_i - a$$

$$\frac{\delta\left[\Sigma\ (W_i - \hat{W}_i)^2\right]}{\delta a} = 2\ \Sigma\ (W_i - bt_i - a) = 0$$

$$\Sigma\ (W_i - bt_i - a) = 0$$

$$Na + b\Sigma t_i = \Sigma W_i \quad (1)$$

$$\frac{\delta Q}{\delta b} = \frac{\delta\left[\Sigma\ (W_i - \hat{W}_i)^2\right]}{\delta b} = 0 \qquad \hat{W}_i = bt_i + a$$

$$W_i - \hat{W}_i = W_i - bt_i - a$$

$$\frac{\delta\left[\Sigma\ (W_i - \hat{W}_i)^2\right]}{\delta b} = 2\ \Sigma -t_i\ (W_i - bt_i - a) = 0$$

$$\Sigma -t_i(W_i - bt_i - a) = 0 \quad (2)$$

$$a\Sigma t_i + b\Sigma t_i^2 = \Sigma t_i W_i \quad (3)$$

with (1) and (3), a and b can be solved by matrix:

$$Na + (\Sigma t_i)\ b = \Sigma W_i \quad (1)$$

$$(\Sigma t_i)\ a + (\Sigma t_i^2)\ b = \Sigma t_i W_i \quad (3)$$

$$b = \frac{\begin{matrix} N & \Sigma W_i \\ \Sigma t_i & \Sigma t_i W_i \end{matrix}}{\begin{matrix} N & \Sigma t_i \\ \Sigma t_i & \Sigma t_i^2 \end{matrix}} = \frac{N\Sigma t_i W_i - (\Sigma W_i)(\Sigma t_i)}{N\Sigma t_i^2 - (\Sigma t_i)^2} \quad (4)$$

$$\begin{vmatrix} \Sigma w_i & \Sigma t_i \end{vmatrix}$$

$$a = \frac{\begin{vmatrix} \Sigma t_i W_i & \Sigma t_i^2 \\ N & \Sigma t_i \end{vmatrix}}{\begin{vmatrix} \Sigma t_i & \Sigma t_i^2 \end{vmatrix}} = \frac{\Sigma W_i \Sigma t_i^2 - \Sigma t_i \Sigma t_i W_i}{N\Sigma t_i^2 - (\Sigma t_i)^2} \qquad (5)$$

$$LR = -b\ 144000\% \text{ per day}$$

(*unless otherwise specified, all summation will be from i = 1 to i = N

It is important to emphasize here that the slope b or leak rate is formulated on the following assumptions:

- the deviation of W_i from the true value are distributed according to the gas distribution function

- only the W_i contains random error, not the t_i

The Confidence Limit of the Slope of the Least Square Line

As indicated in the error analysis, the random error is a major contribution which deviates the test result from the true value. Due to the random characteristics of this error, only statistical treatment can possibly evaluate the error effect on the test result. In order to choose a proper statistical treatment, it is important to identify the characteristics of the observed data. In the previous derivation, it is found that LR is the outcome of the calculation from the observed temperature and pressure in the Containment Vessel using the ideal gas law and curve fitting method. It is now obvious that the observed data is a continuous measurement which is completely different from the discrete measurement. The latter requires discrete statistical treatment (χ^2 CHi SQUARE), while the former requires continuous statistical treatment (The t test).

The t test provides information which indicates how much the calculated leak rate deviated from the true value and at what probability.

In other words:

$L_{(TRUE)}$ = LR ± "Deviation" (percent of probability)

For t test method "deviation" is defined as:

$$\text{Deviation} = t\, S_b$$

- t is a tabulated value which corresponds to the number of Data sets taken and the required probability (in this case 95% is chosen on popular basis).

- S_b is the standard deviation of the variance of the containment air weight.

Equation (4) indicates that $b = f(W_i)$ and by definition of variance:

$$S_b^2 = \Sigma \left(\frac{\delta b}{\delta W_i}\right)^2 S_w^2 \qquad (5)$$

where S_w^2 is the variance of W_i:

$$S_w^2 = \frac{(W_i - a - bt_i)^2}{N-2} \qquad (6)$$

The (N-2) is chosen here instead of N because the least square line W_i is restricted by value of b and a. The freedom to evaluate the variance of W_i is reduced by 2 even though N data is recorded.

$$\frac{\delta b}{\delta W_i} = \frac{\delta \dfrac{\left(N\Sigma t_i W_i - (\Sigma W_i)(\Sigma t_i) \right)}{N\Sigma t_i^2 - (\Sigma t_i)^2}}{\delta W_i}$$

let $c = N\Sigma t_i^2 - (\Sigma t_i)^2$

$$\frac{\delta b}{\delta W_i} = \frac{\delta \dfrac{\left(N\Sigma t_i W_i - (\Sigma W_i)(\Sigma t_i) \right)}{c}}{\delta W_i}$$

$$= \frac{1}{c} \delta \frac{\left(N\Sigma t_i W_i - (\Sigma W_i)(\Sigma t_i) \right)}{\delta W_i}$$

$$= \frac{1}{c}\left(Nt_i - \Sigma t_i \right)$$

$$\frac{\delta b}{\delta W_i}^2 = \frac{1}{C^2}\left(Nt_i - \Sigma t_i \right)^2 \qquad (7)$$

Substitute (7) to (5)

$$S_b^2 = \frac{S_w^2}{c^2} \Sigma (Nt_i - \Sigma t_i)^2$$

$$= \frac{S_w^2}{c^2} \Sigma (N^2 t_i^2 - 2Nt_i \Sigma t_i + (\Sigma t_i)^2)$$

$$= \frac{S_w^2}{c^2} (N^2 \Sigma t_i^2 - 2N\Sigma t_i \Sigma t_i + N(\Sigma t_i)^2)$$

$$= \frac{S_w^2}{c^2} \quad (N^2 \Sigma t_i^{\,2} - N(\Sigma t_i)^2) \qquad (8)$$

Substitute $c = N\Sigma t_i^{\,2} - (\Sigma t_i)^2$ to (8):

$$S_b^{\,2} = \frac{NS^2W}{c} = S^2_{w/\frac{c}{N}}$$

$$\frac{c}{N} = \frac{N\Sigma t_i^{\,2} - \Sigma t_i^{\,2}}{N} = \Sigma t_i^{\,2} - \frac{\Sigma t_i^{\,2}}{N}$$

$$S_b^{\,2} = \frac{S^2W}{\Sigma t_i^{\,2} - \frac{\Sigma t_i^{\,2}}{N}}$$

The identity provides:

$$\Sigma(t_i - \bar{t})^2 = \Sigma t_i^{\,2} - \frac{(\Sigma t_i)^2}{N} = \Sigma t_i^{\,2} - \bar{t}\,\Sigma t_i$$

$$S_b^{\,2} = \frac{S_w^2}{\Sigma t_i^{\,2} - \frac{\Sigma t_i^{\,2}}{N}} = \frac{S_w^2}{\Sigma(t_i - \bar{t})^2} = \frac{S_w^2}{\Sigma t_i^{\,2} - \bar{t}\,\Sigma t_i} \qquad (9)$$

Summarization:

The following are the essential equations used in developing ILRT computer program:

$$W_i = \frac{0.5734\left(\frac{(P-P_v)}{T}\right)_u^i + 0.2612\left(\frac{(P-P_v)}{T}\right)_L^i + 0.1654\left(\frac{(P-P_v)}{T}\right)_I^i}{0.5734\left(\frac{(P-P_v)}{T}\right)_u^1 + 0.2612\left(\frac{(P-P_v)}{T}\right)_L^1 + 0.1654\left(\frac{(P-P_v)}{T}\right)_I^1}$$

$$T = \Sigma T_k V_k$$

$$W_i = bt_i + a$$

$$b = \frac{N\Sigma t_i W_i - (\Sigma W_i)(\Sigma t_i)}{N\Sigma t_i^2 - (\Sigma t_i)^2}$$

$$a = \frac{\Sigma W_i (\Sigma t_i^2) - (\Sigma t_i)(\Sigma t_i W_i)}{N\Sigma t_i^2 - (\Sigma t_i)^2}$$

$$LR = -b$$

$$LR(95\%) = LR \pm tS_b$$

t value corresponds to f = N-2 and 0.975

$$S_W^2 = \frac{\Sigma(W_i - a - bt_i)^2}{N-2}$$

$$S_b = \left[\frac{S_W^2}{\Sigma t_i^2 - \bar{t}\,\Sigma t_i}\right]^{\frac{1}{2}}$$

APPENDIX B

RAW AND PROCESSED DATA

INITIALIZATION DATA

LEAK RATE INITIALIZATION

LOWER CONTAINMENT
26 INSTRUMENT POINTS, 26.1% BLDG VOLUME

BANK-PT	VOL	TYP	A(X**2)	B(X)	C
101	0.0528	[illegible]	[illegible]	[illegible]	-0.47887
102	0.0530	2	-0.1792E-03	1.01733	-0.46960
103	0.0530	2	-0.1843E-03	1.01757	-0.46199
104	0.0530	2	-0.1664E-03	1.01590	-0.34333
105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
106	0.0327	2	-0.1406E-03	1.01326	-0.20995
107	0.0327	2	-0.1772E-03	1.01723	-0.48238
108	0.0327	2	-0.1850E-03	1.01784	-0.45188
109	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	0.0530	2	-0.1944E-03	1.02050	-0.55976
201	0.0530	2	-0.1722E-03	1.01609	-0.55573
202	0.0530	2	-0.1957E-03	1.02185	-0.54130
203	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
204	0.0530	2	-0.1959E-03	1.02063	-0.42233
205	0.0530	2	-0.1943E-03	1.01874	-0.46109
206	0.0530	2	-0.1547E-03	1.01579	-0.49155
207	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
208	0.0120	2	-0.1644E-03	1.01580	-0.39366
209	0.0101	2	-0.1071E-03	1.01118	-0.31334
210	0.0116	2	-0.1735E-03	1.01650	-0.41071
301	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
305	0.0533	2	-0.1709E-03	1.01651	-0.44677
306	0.0419	2	-0.1885E-03	1.01780	-0.42783
307	0.0399	2	-0.1838E-03	1.01904	-0.52369
703	1.0000	[illegible]	[illegible]	[illegible]	[illegible]
706	1.0000	3	0.0000E+00	1.00000	0.00000

UPPER CONTAINMENT
1? INSTRUMENT POINTS, ?.87% BLDG VOLUME

BANK-PT	VOL	TYP	A(X**2)	B(X)	C
302	0.0200	2	-0.1970E-03	1.01937	-0.33283
303	0.0590	2	-0.1875E-03	1.01825	-0.52270
304	0.0450	[illegible]	[illegible]	[illegible]	[illegible]
308	0.0590	2	-0.1430E-03	1.01293	-0.30347
309	0.0590	2	-0.1885E-03	1.01786	-0.60290
310	0.0590	2	-0.1955E-03	1.01912	-0.52423
401	0.0590	[illegible]	[illegible]	[illegible]	[illegible]
402	0.1150	2	-0.1664E-03	1.01599	-0.36442
403	0.1150	2	-0.1943E-03	1.01863	-0.41775
404	0.1100	2	-0.1500E-03	1.01398	-0.25673
405	0.1100	[illegible]	[illegible]	[illegible]	[illegible]
406	0.0950	2	-0.1687E-03	1.01637	-0.44975
407	0.0950	2	-0.2048E-03	1.02052	-0.55478
702	1.0000	4	0.0000E+00	1.00000	0.00000
708	1.0000	3	0.0000E+00	1.00000	0.00000

ICE CONDENSER
16 INSTRUMENT POINTS, 16.5% BLDG VOLUME

BANK-PT	VOL	TYP	A(X**2)	B(X)	C
408	0.0538	2	-0.1619E-03	1.01541	-0.35040
409	0.0538	2	-0.1393E-03	1.01316	-0.36285

1/2

LEAK RATE INITIALIZATION

410	0.0538	2	-0.1853E-03	1.01799	-0.49368
501	0.0538	2	-0.1908E-03	1.01856	-0.47303
502	0.0538	2	-0.1910E-03	1.01861	-0.46519
503	0.0538	2	-0.1968E-03	1.01956	-0.53723
504	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
505	0.0539	2	-0.2219E-03	1.02528	-0.45524
506	0.0539	2	-0.1760E-03	1.01718	-0.42919
507	0.0539	2	-0.1445E-03	1.01301	-0.29612
508	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
509	0.0913	2	-0.1898E-03	1.01848	-0.49570
510	0.1385	2	-0.1920E-03	1.01880	-0.45113
602	0.1384	2	0.2425E-05	0.99789	0.01594
701	1.0000	[illegible]	0.0000E+00	1.00000	0.00000
704	1.0000	3	0.0000E+00	1.00000	0.00000

2/2

FULL PRESSURE TEST CALIBRATED DATA

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
425 READING AT 85187, 415										
BANK 1	88.014	97.282	96.488	96.998	96.360	93.784	93.109	94.191	93.087	100.974
BANK 2	101.075	101.092	101.185	99.898	99.676	99.619	99.727	96.966	97.365	98.621
BANK 3	97.558	97.646	98.260	93.540	98.581	96.839	97.449	99.263	99.455	99.070
BANK 4	99.129	99.187	98.660	98.933	99.107	98.410	98.352	100.554	100.565	100.492
BANK 5	100.634	100.496	100.597	[illegible]	[illegible]	[illegible]	[illegible]	98.991	98.837	98.981
BANK 6	0.000	98.881	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.386	29.400	29.344	81.570	84.310	84.950	0.000	0.000	0.000	0.000
426 READING AT 85187, [illegible]										
BANK 1	87.099	97.252	96.479	96.899	96.350	93.804	93.296	94.082	93.237	100.959
BANK 2	101.006	101.082	101.156	99.858	99.627	99.481	99.688	97.045	97.516	98.542
BANK 3	97.539	97.480	98.250	93.500	98.552	96.800	97.438	99.234	99.416	98.872
BANK 4	99.096	99.178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.455	100.466	100.558	100.467	100.628	100.194	100.642	99.011	98.827	98.881
BANK 6	0.000	98.871	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.378	29.400	29.312	81.530	83.860	84.970	0.000	0.000	0.000	0.000
427 READING AT 85187, 435										
BANK 1	87.109	97.301	96.439	96.948	96.311	93.883	93.178	94.051	93.237	100.930
BANK 2	101.006	101.062	101.107	99.790	99.597	99.589	[illegible]	96.937	[illegible]	98.532
BANK 3	97.809	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	99.041	99.237	98.621	98.923	99.136	98.351	98.332	100.525	100.536	100.394
BANK 5	100.416	100.436	100.509	100.477	100.618	99.611	100.673	98.971	98.848	98.842
BANK 6	0.000	98.831	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.383	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
428 READING AT 85187, 445										
BANK 1	87.050	97.282	96.429	96.879	96.301	93.695	93.227	94.043	93.208	100.891
BANK 2	100.977	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.450	97.470	98.240	93.460	98.523	96.731	97.321	99.165	99.406	98.883
BANK 4	99.060	99.119	98.611	98.887	99.087	98.370	98.313	100.476	100.534	100.483
BANK 5	100.406	100.426	100.500	100.400	100.550	100.018	100.563	98.991	98.807	98.871
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.383	29.398	29.338	81.550	83.880	84.930	0.000	0.000	0.000	0.000
429 READING AT 85187, 455										
BANK 1	87.040	97.218	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.937	101.003	101.097	99.760	99.558	99.540	99.509	96.966	97.556	98.503
BANK 3	97.421	97.450	98.240	93.470	98.493	96.892	97.360	99.214	99.428	99.080
BANK 4	99.041	99.158	98.611	98.884	99.056	98.370	98.293	100.505	100.496	100.453
BANK 5	100.406	100.319	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.851	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.383	29.399	29.338	81.580	83.980	84.930	0.000	0.000	0.000	0.000
430 READING AT 85187, [illegible]										
BANK 1	87.060	97.184	96.420	96.869	96.282	93.904	93.197	94.003	93.178	100.861
BANK 2	100.928	100.964	101.077	99.721	99.519	99.261	99.899	96.937	97.407	98.493
BANK 3	97.401	97.401	98.211	93.470	98.473	96.653	97.242	99.145	99.406	99.060
BANK 4	99.021	99.099	98.611	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.426	100.367	100.500	100.467	100.560	100.430	100.642	98.932	98.837	98.861
BANK 6	0.000	98.791	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.378	29.395	29.332	81.560	83.950	84.990	0.000	0.000	0.000	0.000

LEAK RATE INSTRUMENT CALIBRATED DATA

431 READING AT 85187: 515

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.080	97.184	96.418	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.888	100.984	101.048	99.662	99.529	99.501	99.290	96.917	97.397	98.444
BANK 3	97.401	97.303	98.269	93.520	98.434	96.643	97.313	99.234	99.367	99.011
BANK 4	98.907	99.080	98.591	98.852	98.979	98.301	98.515	100.336	100.486	100.011
BANK 5	100.485	100.350	100.481	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.781	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000
BANK 7	29.381	29.396	29.334	81.690	83.920	84.910	0.000	0.000	0.000	0.000

432 READING AT 85187: [illegible]

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.070	97.164	96.439	96.879	96.292	93.735	93.148	93.874	93.149	100.842
BANK 2	100.908	100.954	101.048	[illegible]	[illegible]	[illegible]	[illegible]	96.907	97.387	98.434
BANK 3	97.352	97.284	98.220	93.470	98.424	96.602	97.174	99.135	99.367	98.972
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.387	100.309	100.441	100.418	100.599	100.351	100.622	98.932	98.827	98.852
BANK 6	0.000	98.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.380	29.398	29.331	81.600	83.970	84.900	0.000	0.000	0.000	0.000

433 READING AT 85187: 535

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.050	97.174	96.410	96.810	96.213	93.724	93.140	93.974	93.110	100.802
BANK 2	100.859	100.935	101.028	99.662	99.499	99.392	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	99.011	99.050	98.381	98.864	99.009	98.331	98.751	100.307	100.447	100.394
BANK 5	100.357	100.279	100.451	100.400	100.680	100.440	100.612	98.922	98.807	98.842
BANK 6	0.000	98.692	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

434 READING AT 85187: 545

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.030	97.136	96.361	96.830	96.213	93.853	93.217	93.844	93.110	100.792
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.352	97.136	98.269	93.530	98.395	96.613	97.134	99.174	99.377	98.923
BANK 4	98.972	99.089	98.542	98.864	98.969	98.331	98.744	100.367	100.447	100.368
BANK 5	100.280	100.348	100.451	100.380	100.520	100.341	100.504	98.842	98.802	98.822
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.379	29.396	29.329	81.600	83.950	84.880	0.000	0.000	0.000	0.000

435 READING AT 85187: 555

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.060	97.105	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.839	100.886	100.989	99.613	99.199	99.471	99.521	96.809	97.328	98.365
BANK 3	97.323	97.185	98.211	93.480	98.346	96.604	97.108	99.158	99.418	98.874
BANK 4	98.972	99.001	98.542	98.835	98.960	98.321	98.225	100.387	100.408	100.355
BANK 5	100.230	100.299	100.399	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.801	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.377	29.395	29.332	81.600	83.990	84.880	0.000	0.000	0.000	0.000

436 READING AT 85187: 605

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	87.001	97.066	96.361	96.781	96.184	93.833	93.160	93.925	93.080	100.783
BANK 2	100.800	100.886	100.989	99.613	99.450	99.353	99.501	96.730	97.298	98.297
BANK 3	97.254	97.225	98.191	93.480	98.365	96.564	97.006	99.106	99.377	98.864
BANK 4	98.943	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.259	100.328	100.402	100.300	100.520	98.770	100.504	98.803	98.788	98.802
BANK 6	0.000	98.721	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.377	29.397	29.330	81.610	83.990	84.850	0.000	0.000	0.000	0.000

2/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
437 READING AT 85187.615										
BANK 1	[illegible]	[illegible]	98.381	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.734
BANK 2	100.751	100.846	100.940	99.564	99.421	99.353	99.482	96.701	97.278	98.356
BANK 3	97.313	97.029	98.201	93.470	96.355	96.548	97.075	99.155	99.318	98.933
BANK 4	98.923	99.089	98.513	98.776	98.960	98.292	98.156	100.368	100.408	100.257
BANK 5	100.181	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.731	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.377	29.396	29.344	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
438 READING AT 85187.625										
BANK 1	87.020	97.056	96.292	96.712	96.223	93.863	93.109	93.905	93.031	100.734
BANK 2	100.770	100.907	100.921	[illegible]	[illegible]	[illegible]	[illegible]	96.720	97.298	98.277
BANK 3	97.241	97.185	98.152	93.500	[illegible]	[illegible]	[illegible]	99.076	99.318	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.298	100.260	100.313	100.320	100.461	99.684	100.455	98.893	98.758	98.832
BANK 6	0.000	98.701	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.377	29.394	29.342	81.490	83.760	84.810	0.000	0.000	0.000	0.000
439 READING AT 85187.635										
BANK 1	87.030	97.046	96.351	96.741	96.184	93.708	93.071	93.076	93.091	100.734
BANK 2	100.731	100.817	100.832	99.505	99.391	99.304	99.401	96.691	97.268	98.287
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.903	99.079	98.513	98.736	98.960	98.243	98.126	100.338	100.378	100.218
BANK 5	100.259	100.230	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	98.873	98.748	98.822
BANK 6	0.000	98.692	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
440 READING AT 85187.645										
BANK 1	87.030	[illegible]	96.331	96.712	96.154	[illegible]	93.071	[illegible]	[illegible]	100.704
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.215	97.195	98.171	93.470	98.296	96.437	96.957	99.096	99.318	98.825
BANK 4	98.854	98.991	98.503	[illegible]	[illegible]	[illegible]	[illegible]	100.318	100.348	100.247
BANK 5	100.200	100.211	[illegible]	100.300	100.401	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.375	29.394	29.335	81.530	83.850	84.810	0.000	0.000	0.000	0.000
441 READING AT 85187.655										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	[illegible]	100.778	100.852	99.505	99.362	99.304	99.374	96.661	97.249	98.267
BANK 3	97.205	97.087	98.162	93.480	98.247	96.427	[illegible]	99.115	99.328	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.319	100.262
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.673	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.373	29.393	29.338	81.550	83.830	84.810	0.000	0.000	0.000	0.000
442 READING AT 85187.708										
BANK 1	87.040	96.938	96.263	96.653	96.144	93.557	92.961	93.826	93.002	100.685
BANK 2	100.702	100.758	100.872	99.485	99.352	99.284	99.374	96.642	97.209	98.247
BANK 3	97.175	96.999	98.132	93.490	98.238	96.398	96.947	99.066	99.279	98.874
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.259	100.191	100.284	100.271	100.422	100.292	100.523	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.692	0.000	0.000	0.000	0.000	0.000	98.883	98.729	98.812
BANK 7	29.373	29.391	29.335	81.550	83.840	84.820	0.000	0.000	0.000	0.000

3/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
443 READING AT 85187: 715										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.662	100.748	100.852	99.466	99.303	99.284	99.354	96.632	97.189	98.257
BANK 3	97.185	97.048	98.132	93.470	98.257	96.368	96.908	99.027	99.359	98.835
BANK 4	98.835	99.020	98.444	98.736	98.930	98.233	98.068	100.299	100.329	100.227
BANK 5	100.191	100.181	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.682	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.372	29.394	29.334	81.570	83.880	84.810	0.000	0.000	0.000	0.000
444 READING AT 85187: 725										
BANK 1	87.011	97.007	96.263	96.623	96.105	93.439	92.892	93.817	92.972	100.694
BANK 2	100.692	100.758	100.803	99.387	99.303	[illegible]	[illegible]	96.632	97.179	98.198
BANK 3	97.175	96.960	98.132	93.500	[illegible]	[illegible]	[illegible]	99.106	99.220	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.279	100.132	100.215	100.271	100.442	100.292	100.464	98.844	98.709	98.783
BANK 6	0.000	98.647	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.372	29.391	29.333	81.560	83.860	84.780	0.000	0.000	0.000	0.000
445 READING AT 85187: 735										
BANK 1	87.001	96.952	96.233	96.604	96.108	93.439	[illegible]	93.807	92.982	100.635
BANK 2	[illegible]	[illegible]	100.813	99.436	99.274	[illegible]	[illegible]	[illegible]	97.183	98.218
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.825	99.069	98.454	98.697	98.930	98.193	98.097	100.299	100.329	100.237
BANK 5	100.269	100.191	100.294	100.242	100.403	100.273	100.474	98.778	98.709	98.783
BANK 6	0.000	98.652	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
446 READING AT 85187: 745										
BANK 1	86.971	96.938	96.223	96.594	96.046	93.388	92.882	93.826	92.943	100.577
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.136	97.048	98.142	93.480	98.238	96.319	96.828	99.007	99.269	98.835
BANK 4	98.776	99.128	98.052	98.477	98.930	98.203	98.078	100.289	100.279	100.139
BANK 5	100.161	100.152	100.264	100.281	100.373	98.701	100.386	98.804	98.690	98.763
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.370	29.390	29.328	81.580	83.940	84.790	0.000	0.000	0.000	0.000
447 READING AT 85187: 755										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.643	100.640	100.754	99.348	99.284	99.235	99.325	96.592	97.140	98.139
BANK 3	97.136	96.999	98.093	93.490	98.149	96.339	[illegible]	99.007	99.240	98.835
BANK 4	98.776	99.060	98.444	[illegible]	[illegible]	[illegible]	98.078	100.269	100.329	100.178
BANK 5	100.161	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.370	29.387	29.327	81.560	83.920	84.750	0.000	0.000	0.000	0.000
448 READING AT 85187: 805										
BANK 1	86.991	96.958	96.204	96.633	96.095	93.685	92.804	93.797	92.923	100.635
BANK 2	100.633	100.709	100.764	99.407	99.235	99.235	99.335	96.592	97.120	98.120
BANK 3	97.097	96.999	98.132	93.490	98.159	96.319	96.761	99.047	99.240	98.776
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.230	100.132	100.245	100.251	100.373	100.037	100.435	98.795	98.709	98.763
BANK 6	0.000	98.612	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.369	29.388	29.324	81.590	83.950	84.740	0.000	0.000	0.000	0.000

4/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
449 READING AT 051871 815										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93.777	[illegible]	100.898
BANK 2	100.603	100.650	100.774	99.397	99.195	99.156	99.276	96.553	97.090	98.169
BANK 3	97.116	96.891	98.122	93.490	98.139	96.260	96.741	98.958	99.220	98.746
BANK 4	98.776	99.010	98.433	98.677	98.871	98.134	98.048	100.230	100.260	100.159
BANK 5	100.191	100.113	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	98.744
BANK 6	0.000	98.582	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.369	29.388	29.327	81.590	83.950	84.810	0.000	0.000	0.000	0.000
450 READING AT 051871 825										
BANK 1	86.922	96.889	96.223	96.545	96.036	93.389	92.725	93.767	92.884	100.586
BANK 2	100.485	100.660	100.715	99.378	99.238	99.146	99.266	96.543	97.070	98.071
BANK 3	97.107	96.901	98.093	93.470	98.159	96.260	96.702	98.970	99.220	98.835
BANK 4	98.737	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.220	100.113	100.245	100.212	100.265	100.283	100.327	98.765	98.680	98.734
BANK 6	0.000	98.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.368	29.386	29.328	81.580	83.980	84.800	0.000	0.000	0.000	0.000
451 READING AT 051871 835										
BANK 1	86.922	96.889	96.204	96.884?	96.007	93.808?	92.764	93.787	92.884	100.567
BANK 2	100.584	100.640	100.705	99.358	99.225	99.136	99.236	96.484	97.051	98.130
BANK 3	97.097	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.786	99.040	98.385	98.638	98.803	98.144	98.048	100.210	100.220	100.110
BANK 5	100.142	100.103	100.049	100.212	100.344	99.380	100.337	98.765	98.680	98.724
BANK 6	0.000	98.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.370	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000
452 READING AT 051871 845										
BANK 1	86.912	96.879	96.194	96.545	95.997	93.399	92.794	93.718	92.874	100.567
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.087	96.862	98.044	93.500	98.149	96.270	96.770	99.007	99.210	98.815
BANK 4	98.747	98.912	98.419	[illegible]	[illegible]	[illegible]	[illegible]	100.210	100.240	100.120
BANK 5	100.191	100.083	100.225	100.133	100.131	100.145	100.307	98.775	98.660	98.724
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.367	29.384	29.332	81.600	83.940	84.790	0.000	0.000	0.000	0.000
453 READING AT 051871 855										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.436	100.611	100.715	99.299	99.186	99.126	99.237	96.455	97.060	98.090
BANK 3	97.087	96.921	98.093	93.500	98.139	96.231	96.731	98.938	99.132	98.818
BANK 4	98.756	98.921	98.385	98.658	98.881	98.131	98.009	100.220	100.240	100.051
BANK 5	100.112	100.084	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.367	29.381	29.327	81.600	83.990	84.820	0.000	0.000	0.000	0.000
454 READING AT 051871 905										
BANK 1	86.922	96.869	96.174	96.564	96.036	93.418	92.725	93.758	92.874	100.547
BANK 2	100.574	100.601	100.676	99.338	99.225	99.146	99.236	96.455	97.031	98.149
BANK 3	97.087	96.980	98.103	93.500	98.129	96.211	96.731	98.968	99.240	98.756
BANK 4	98.737	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.181	100.015	100.166	100.202	100.363	100.037	100.278	98.765	98.670	98.734
BANK 6	0.000	98.622	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.367	29.381	29.327	81.600	84.000	84.790	0.000	0.000	0.000	0.000

5/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
455 READING AT 85187; 915										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.505	100.611	100.686	99.299	99.176	99.146	99.236	96.435	97.001	98.971
BANK 3	97.018	96.911	98.063	93.470	98.100	96.211	96.731	98.919	99.181	98.738
BANK 4	98.766	98.971	98.366	98.609	98.822	98.115	98.009	100.181	100.250	100.002
BANK 5	100.149	100.074	100.178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.552	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.363	29.379	29.331	81.870	84.030	84.740	0.000	0.000	0.000	0.000
456 READING AT [illegible]										
BANK 1	86.892	96.800	96.145	96.535	96.007	93.369	92.617	93.738	92.825	100.510
BANK 2	100.505	100.571	100.676	99.319	99.186	99.107	99.209	96.438	97.001	98.081
BANK 3	97.077	96.731	98.103	93.510	[illegible]	96.201	96.602	99.017	99.230	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.014	100.054	100.166	100.163	100.314	99.811	100.327	98.746	98.650	98.704
BANK 6	0.000	98.532	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.360	29.381	29.332	81.520	84.020	84.810	0.000	0.000	0.000	0.000
457 READING AT 85187; 935										
BANK 1	86.912	94.879	96.128	96.404	95.997	93.997	92.754	93.708	92.844	100.508
BANK 2	100.505	100.552	99.677	99.279	99.176	99.117	99.207	96.415	96.991	98.020
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.786	98.981	98.366	98.599	98.783	98.105	97.989	100.161	100.211	100.970
BANK 5	100.083	99.966	100.186	100.094	100.238	[illegible]	100.387	98.647	98.611	98.704
BANK 6	0.000	98.552	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
458 READING AT 85187; 945										
BANK 1	86.863	96.800	96.096	96.505	96.026	93.507	92.735	93.698	92.805	100.498
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.938	96.862	98.054	93.490	98.041	96.182	96.652	98.960	99.230	98.707
BANK 4	98.747	99.020	98.336	98.849	98.783	98.108	97.980	100.151	100.211	100.139
BANK 5	99.975	100.025	100.157	100.153	100.338	[illegible]	100.238	98.716	98.650	98.685
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.362	29.377	29.330	81.600	83.980	84.850	0.000	0.000	0.000	0.000
459 READING AT 85187; 955										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.475	100.542	100.676	99.279	99.146	99.087	99.187	96.396	96.991	97.982
BANK 3	97.048	96.872	98.054	93.820	98.051	96.172	96.633	98.958	99.102	98.727
BANK 4	98.727	98.902	98.327	98.559	98.764	98.105	97.980	100.151	100.240	[illegible]
BANK 5	100.093	100.034	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.376	29.332	81.610	84.060	84.770	0.000	0.000	0.000	0.000
460 READING AT 85187;1008										
BANK 1	86.814	96.859	96.155	96.466	95.968	93.300	92.685	93.689	92.795	100.479
BANK 2	100.475	100.522	100.617	99.289	99.127	99.107	99.187	96.386	96.912	98.012
BANK 3	97.028	96.901	98.063	93.510	98.051	96.152	96.603	98.899	99.151	98.776
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.073	100.044	100.039	100.134	100.167	99.693	100.218	98.706	98.641	98.695
BANK 6	0.000	98.552	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.376	29.317	81.630	84.090	84.810	0.000	0.000	0.000	0.000

6/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
461 READING AT 85187:1015										
BANK 1	86.794?	96.781?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.436	100.523	100.597	99.270	99.097	99.067	99.148	96.396	96.942	97.982
BANK 3	97.028	96.813	98.103	93.510	98.011	96.152	96.613	98.820	99.210	98.687
BANK 4	98.727	98.932	98.327	98.520	98.852	98.026?	97.950	100.122	100.161	100.031
BANK 5	100.044	100.028?	100.147	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.360	29.375	29.303	81.630	84.080	84.790	0.000	0.000	0.000	0.000
462 READING AT 85187:1025?										
BANK 1	86.754	96.800	96.096	96.436	95.938	93.241	92.508	93.640	92.776	100.449
BANK 2	100.456	100.561	100.627	99.260	99.107	99.102	99.148?	96.386	96.882?	97.972?
BANK 3	97.018	96.842?	98.024?	93.510	98.002	96.152	96.554?	98.919	99.151	98.746?
BANK 4	98.678	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	100.122	99.976	100.137	100.114	100.167	99.821	100.218	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.492	0.000	0.000	0.000	0.000	0.000	98.696	98.631	98.695
BANK 7	29.360	29.375	29.303	81.620	84.090	84.850	0.000	0.000	0.000	0.000
463 READING AT 85187:1035										
BANK 1	86.735	96.791	96.155	96.436	95.889?	93.261	92.877	93.610	92.776	100.449
BANK 2	100.436?	100.502	100.380?	99.260	99.107	99.102	[illegible]	96.386?	96.872?	97.943?
BANK 3	97.008?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.658	98.834?	98.317	98.520	98.761	98.075	97.901	100.112	100.132	100.002?
BANK 5	99.946	99.966	100.029	100.065	100.226?	99.733	100.180?	98.687?	98.621	98.655
BANK 6	0.000	98.502	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.380?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
464 READING AT 85187:1045										
BANK 1	86.774?	96.722	96.076	96.416	95.909?	93.350	92.518	93.640	92.756	100.420
BANK 2	100.466?	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	97.018	96.863	98.034	93.500	98.002	96.113	96.361	98.919	99.102	98.707
BANK 4	98.688	98.804	98.307	98.590?	98.744?	98.036	97.940?	100.093	100.134?	100.018
BANK 5	100.034	99.995	100.127	100.084?	100.210	99.605	100.297?	98.667?	98.582?	98.685
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.359	29.372	29.299	81.630	84.120	84.790	0.000	0.000	0.000	0.000
465 READING AT 85187:1055										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.416	100.513	100.490	99.211	99.069	99.049?	99.119	96.346	96.872	97.943
BANK 3	96.979	96.842?	98.034	93.500	98.002?	96.093	96.374?	98.845?	99.123	98.727
BANK 4	98.658	98.861?	98.317	98.421	98.743?	98.036	97.940	100.063	100.132	99.914?
BANK 5	99.968	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.358	29.375	29.315	81.620	84.130	84.870	0.000	0.000	0.000	0.000
466 READING AT 85187:1105										
BANK 1	86.754	96.722	96.056	96.397	95.869	93.350	92.538	93.610	92.756	100.410
BANK 2	100.416	100.483	100.568	99.240	99.088?	99.028	99.129?	96.356	96.852	97.943
BANK 3	96.989	96.764	98.054	93.510	97.992	96.093	96.564?	96.879	99.083	98.660
BANK 4	98.640?	98.788?	98.317	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.995	99.966	100.108	100.084	100.216	99.193	100.189	98.647	98.562	98.655
BANK 6	0.000	98.452	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.357	29.371	29.303	81.630	84.130	84.820	0.000	0.000	0.000	0.000

7/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
467 READING AT 851871115										
BANK 1	[illegible]	[illegible]	96.027	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.387	100.463	100.548	99.211	99.048	99.038	99.129	96.337	96.843	97.943
BANK 3	96.969	96.754	98.073	93.500	97.972	96.064	96.854	98.889	99.102	98.668
BANK 4	98.649	98.765	98.297	98.490	98.744	98.016	97.931	100.073	100.092	100.002
BANK 5	100.024	[illegible]	100.016	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.358	29.372	29.302	81.830	84.100	84.830	0.000	0.000	0.000	0.000
468 READING AT 851871125										
BANK 1	86.794	96.673	96.037	96.367	95.879	93.241	92.498	93.591	92.746	100.420
BANK 2	100.387	100.444	100.558	99.220	99.078	99.018	99.188	96.317	96.833	97.933
BANK 3	96.969	96.842	97.995	93.500	97.913	96.014	96.554	98.820	99.142	98.687
BANK 4	98.787	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.926	99.956	100.068	100.045	100.089	99.369	100.189	98.638	98.533	98.655
BANK 6	0.000	98.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.357	29.372	29.300	81.610	84.120	84.800	0.000	0.000	0.000	0.000
469 READING AT 851871135										
BANK 1	86.794	96.673	96.027	96.367	95.830	93.390	92.478	93.571	92.687	100.410
BANK 2	100.387	100.375	100.529	99.171	99.058	[illegible]	99.109	96.292	96.823	97.923
BANK 3	98.940	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.639	98.853	98.307	98.500	98.715	98.007	97.931	100.053	100.092	99.992
BANK 5	99.897	99.887	100.059	100.058	100.107	99.836	100.180	98.647	98.542	98.638
BANK 6	0.000	98.482	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
470 READING AT 851871145										
BANK 1	86.774	96.673	96.017	96.367	95.879	93.212	92.508	93.571	92.638	100.400
BANK 2	100.387	100.434	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.930	96.744	98.024	93.310	97.933	96.074	96.275	98.810	99.093	98.580
BANK 4	98.639	98.775	98.258	98.510	98.718	98.007	97.931	100.043	100.082	99.894
BANK 5	99.965	99.917	99.980	100.026	100.079	99.835	100.159	98.620	98.533	98.636
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.364	29.375	29.313	81.620	84.140	84.820	0.000	0.000	0.000	0.000
471 READING AT 851871155										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.357	100.411	100.519	99.162	99.039	99.028	99.099	96.327	96.843	97.923
BANK 3	96.920	96.754	98.024	93.500	97.955	96.074	96.195	98.840	99.053	98.660
BANK 4	98.649	98.725	98.258	98.490	98.724	97.987	97.921	100.024	100.082	99.855
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.356	29.372	29.310	81.650	84.110	84.810	0.000	0.000	0.000	0.000
472 READING AT 851871205										
BANK 1	86.823	96.633	96.027	96.358	95.909	93.350	92.528	93.561	92.648	100.380
BANK 2	100.357	100.404	100.480	99.103	99.097	98.998	99.089	96.287	96.852	97.894
BANK 3	96.920	96.675	97.985	93.550	97.933	96.054	96.504	98.830	99.044	98.638
BANK 4	98.619	98.768	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.808	99.858	99.941	100.045	100.050	99.890	100.100	98.618	98.542	98.616
BANK 6	0.000	98.402	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.354	29.369	29.315	81.630	84.150	84.850	0.000	0.000	0.000	0.000

8/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
473 READING AT 85187:1215										
BANK 1	[illegible]	[illegible]	96.017	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.371
BANK 2	100.397	100.434	100.431	99.201	99.019	98.979	99.119	96.297	96.852	97.884
BANK 3	96.891	96.774	98.014	93.520	97.923	96.014	[illegible]	98.820	99.014	98.638
BANK 4	98.609	98.773	98.258	[illegible]	98.715	97.957	97.321	100.024	100.053	99.972
BANK 5	99.877	99.927	99.690	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.388	29.311	81.830	84.180	84.840	0.000	0.000	0.000	0.000
474 READING AT 85187:1305										
BANK 1	86.439	96.584	96.027	96.318	95.801	93.231	92.518	93.561	92.589	100.312
BANK 2	100.151	100.275	100.431	99.162	99.030	[illegible]	[illegible]	[illegible]	96.793	97.894
BANK 3	[illegible]	96.774	[illegible]	93.530	[illegible]	95.905	96.456	98.791	99.053	98.580
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.916	99.750	99.990	100.006	100.009	98.516	100.081	98.580	98.513	98.606
BANK 6	0.000	98.412	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.366	29.298	81.680	84.180	84.850	0.000	0.000	0.000	0.000
475 READING AT 85187:1315										
BANK 1	86.774	96.555	96.017	96.318	95.791	93.102	92.498	93.522	92.579	100.282
BANK 2	100.112	100.326	100.382	99.132	98.999	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.590	98.735	98.072	98.461	98.715	97.547	97.791	100.004	100.053	99.873
BANK 5	99.867	99.770	99.812	[illegible]	100.128	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.372	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
476 READING AT 85187:1325										
BANK 1	[illegible]	[illegible]	95.968	96.278	95.742	93.083	92.418	93.482	92.530	100.263
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.851	96.607	97.916	93.500	97.843	95.926	96.429	98.800	98.975	98.531
BANK 4	98.560	98.746	98.178	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.926	[illegible]	[illegible]	99.937	100.079	[illegible]	100.140	[illegible]	[illegible]	[illegible]
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.351	29.365	29.305	81.660	84.200	84.860	0.000	0.000	0.000	0.000
477 READING AT 85187:1335										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.230	100.149	100.382	99.336	98.960	98.900	99.001	96.199	96.701	97.737
BANK 3	96.832	96.656	97.948	93.490	97.905	95.928	[illegible]	98.741	98.985	96.870
BANK 4	98.531	98.676	98.160	98.421	98.577	97.938	97.813	99.915	99.984	99.864
BANK 5	99.710	99.721	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.362	29.302	81.650	84.210	84.840	0.000	0.000	0.000	0.000
478 READING AT 85187:1345										
BANK 1	86.508	96.476	95.909	96.259	95.742	93.142	92.429	93.482	92.510	100.233
BANK 2	100.220	100.286	100.402	99.063	98.960	98.900	99.001	96.189	96.714	97.776
BANK 3	96.822	96.685	97.955	93.470	97.815	95.917	96.387	98.643	98.965	98.413
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.798	99.721	99.755	99.908	99.873	98.849	100.002	98.530	98.435	98.498
BANK 6	0.000	98.302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.361	29.302	81.690	84.220	84.880	0.000	0.000	0.000	0.000

9/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
479 READING AT 851871355										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	95.771	[illegible]	[illegible]	93.443	[illegible]	[illegible]
BANK 2	100.063	100.286	100.323	99.063	98.941	98.929	98.992	96.130	96.763	97.766
BANK 3	96.812	96.685	97.955	93.510	97.766	95.936	96.346	98.682	98.955	98.589
BANK 4	98.492	98.637	98.140	98.402	98.577	97.918	97.764	99.925	99.991	99.737
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.349	29.358	29.302	81.690	84.230	84.850	0.000	0.000	0.000	0.000
480 READING AT 851871408										
BANK 1	86.794	96.525	95.948	96.240	95.742	93.093	92.449	93.512	92.471	100.214
BANK 2	100.210	100.257	100.402	99.063	98.980	98.919	99.021	96.169	96.724	97.756
BANK 3	96.812	96.695	97.936	93.500	97.815	95.887	96.348	98.672	98.936	98.521
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.769	99.730	99.941	99.721	99.853	97.857	100.032	98.520	98.454	98.498
BANK 6	0.000	98.242	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.349	29.361	29.299	81.690	84.230	84.880	0.000	0.000	0.000	0.000
481 READING AT 851871415										
BANK 1	86.648	96.457	95.899	96.190	95.771	93.024	92.430	93.404	92.800	100.243
BANK 2	100.181	100.218	100.313	99.063	98.931	98.900	98.991	96.120	96.654	97.717
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.482	98.578	98.111	98.382	98.558	97.869	97.744	99.896	99.954	99.747
BANK 5	99.861	99.789	99.843	[illegible]	[illegible]	[illegible]	[illegible]	98.500	98.435	98.489
BANK 6	0.000	98.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.349	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
482 READING AT 851871455										
BANK 1	[illegible]	[illegible]	95.850	96.249	95.722	93.281	92.498	93.453	92.500	100.233
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.802	96.695	97.975	93.510	97.825	95.887	96.429	98.741	98.926	98.521
BANK 4	98.531	98.676	98.160	98.392	98.818	97.898	97.833	99.918	99.945	99.871
BANK 5	99.828	99.730	99.970	[illegible]	100.001	99.576	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.348	29.357	29.289	81.710	84.230	84.890	0.000	0.000	0.000	0.000
483 READING AT 851871504										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.220	100.326	100.362	99.055	98.950	98.929	98.952	96.130	96.743	97.688
BANK 3	96.792	96.744	97.926	93.550	97.776	95.897	96.426	98.682	98.877	98.599
BANK 4	98.462	98.607	98.160	98.402	98.597	97.908	97.781	99.896	99.945	99.649
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.348	29.359	29.291	81.710	84.240	84.870	0.000	0.000	0.000	0.000
484 READING AT 851871518										
BANK 1	86.715	96.329	95.889	96.279	95.693	93.231	92.498	93.414	92.481	100.194
BANK 2	100.230	100.286	100.333	99.054	98.911	98.890	98.952	96.120	96.635	97.737
BANK 3	96.792	96.734	97.965	93.540	97.697	95.868	96.446	98.702	98.916	98.511
BANK 4	98.511	98.728	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.798	99.730	99.745	99.672	100.069	98.407	100.002	98.490	98.435	98.489
BANK 6	0.000	98.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.345	29.356	29.287	81.690	84.220	84.920	0.000	0.000	0.000	0.000

10/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
485 READING AT 05187:1530										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.144
BANK 2	100.220	100.276	100.137	98.847	98.892	98.831	98.982	95.982	96.605	97.688
BANK 3	96.763	96.646	97.916	93.540	97.785	95.868	96.357	98.672	98.867	98.540
BANK 4	98.492	98.588	98.160	98.362	98.577	97.879	97.793	99.837	99.935	99.639
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.345	29.355	29.295	81.830	83.810	84.810	0.000	0.000	0.000	0.000
486 READING AT 05187:1834										
BANK 1	86.666	96.496	95.899	96.131	95.702	93.004	92.390	93.374	92.392	100.145
BANK 2	100.161	100.208	100.284	99.004	98.882	98.841	98.942	96.091	96.618	97.648
BANK 3	96.734	96.617	97.897	93.540	97.746	95.799	96.397	98.672	98.857	98.452
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.710	99.701	99.921	98.711	100.040	98.605	100.061	98.431	98.346	98.459
BANK 6	0.000	98.252	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.342	29.352	29.304	81.600	83.930	84.810	0.000	0.000	0.000	0.000
487 READING AT 05187:1644										
BANK 1	86.636	96.496	95.899	96.190	95.722	93.083	92.410	93.364	92.392	100.106
BANK 2	100.171	100.237	100.353	[illegible]	98.872	98.821	[illegible]	96.022	96.605	97.638
BANK 3	96.763	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.483	98.499	98.072	[illegible]	98.547	97.829	97.751	99.856	99.895	99.708
BANK 5	99.642	99.780	99.814	[illegible]	99.971	99.807	[illegible]	[illegible]	98.386	98.440
BANK 6	0.000	98.202	0.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.336	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
488 READING AT 05187:1654										
BANK 1	86.676	96.476	95.840	96.082	95.673	93.133	92.380	93.374	92.432	100.125
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.734	96.705	97.897	93.550	97.697	95.828	96.377	98.594	98.916	98.472
BANK 4	98.472	98.529	98.081	98.343	98.548	97.839	97.695	99.827	99.689	99.600
BANK 5	99.642	99.832	99.804	99.800	99.902	99.733	99.992	98.353	98.356	98.410
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.342	29.349	29.301	81.610	83.940	84.850	0.000	0.000	0.000	0.000
489 READING AT 05187:1705										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.141	100.189	100.304	98.985	98.852	98.921	98.991	95.982	96.555	97.570
BANK 3	96.743	96.723	97.906	93.590	97.738	95.789	96.367	98.633	98.887	98.423
BANK 4	98.433	98.539	98.062	98.313	98.548	97.820	97.735	99.886	99.826	99.678
BANK 5	99.612	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.222	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.334	29.343	29.298	81.830	83.970	84.880	0.000	0.000	0.000	0.000
490 READING AT 05187:1714										
BANK 1	86.685	96.417	95.811	96.141	95.624	93.103	93.384	93.345	92.402	100.086
BANK 2	100.131	100.090	100.304	98.946	98.882	98.773	98.913	96.032	96.625	97.629
BANK 3	96.694	96.656	97.887	93.570	97.707	95.779	96.348	98.643	98.838	98.452
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.583	99.642	99.921	99.721	99.883	98.043	99.864	98.451	98.346	98.400
BANK 6	0.000	98.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.340	29.340	29.304	81.610	83.980	84.880	0.000	0.000	0.000	0.000

11/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
491 READING AT 85187:1725										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.973	100.176	100.225	98.946	98.943	98.901	98.342	96.061	96.595	97.619
BANK 3	96.725	96.550	97.887	93.560	97.697	95.789	97.318	98.883	98.867	98.523
BANK 4	98.394	98.529	98.023	98.333	98.528	97.771	97.725	99.807	99.679	99.570
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	98.314	[illegible]	98.418
BANK 6	0.000	98.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.339	29.350	29.298	81.580	83.940	84.880	0.000	0.000	0.000	0.000
492 READING AT 85187:1734										
BANK 1	86.646	96.398	95.421	96.072	95.644	93.142	92.429	93.335	92.264	100.096
BANK 2	100.082	100.090	100.255	[illegible]	[illegible]	[illegible]	[illegible]	96.041	96.588	97.629
BANK 3	96.714	96.656	97.906	93.500	97.697	95.740	96.340	98.525	98.709	98.452
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.583	99.613	99.882	99.682	99.785	98.574	99.933	98.196	98.317	98.400
BANK 6	0.000	98.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.338	29.348	29.301	81.630	83.960	84.830	0.000	0.000	0.000	0.000
493 READING AT 85187:1745										
BANK 1	86.695	96.437	95.752	96.112	95.712	93.083	92.390	93.325	92.238	100.037
BANK 2	99.925	100.100	100.186	[illegible]	[illegible]	[illegible]	[illegible]	96.002	[illegible]	97.570
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.443	98.519	98.032	98.323	98.518	97.761	97.705	99.788	99.856	99.648
BANK 5	99.465	99.882	99.678	[illegible]	[illegible]	[illegible]	[illegible]	98.333	98.307	98.400
BANK 6	0.000	98.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
494 READING AT 85187:1754										
BANK 1	[illegible]	[illegible]	95.801	96.082	95.624	92.540	92.174	93.355	92.323	100.066
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.714	96.636	97.818	93.530	97.677	95.720	96.318	98.515	98.818	98.364
BANK 4	98.364	98.519	98.013	[illegible]	[illegible]	[illegible]	[illegible]	99.837	[illegible]	[illegible]
BANK 5	99.789	99.691	99.755	99.790	99.863	99.860	99.913	98.323	98.316	98.400
BANK 6	0.000	[illegible]	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.339	29.347	29.300	81.640	84.030	84.840	0.000	0.000	0.000	0.000
495 READING AT 85187:1805										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.102	100.031	100.049	98.936	98.803	98.713	98.883	95.972	96.575	97.570
BANK 3	96.694	96.646	97.867	93.560	97.658	95.711	96.308	98.625	98.818	98.328
BANK 4	98.433	98.519	97.993	98.274	[illegible]	97.731	97.686	99.779	99.708	99.727
BANK 5	99.720	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.337	29.347	29.298	81.510	83.800	84.750	0.000	0.000	0.000	0.000
496 READING AT 85187:1814										
BANK 1	86.666	96.407	95.752	96.072	95.653	92.471	92.144	93.296	92.294	100.056
BANK 2	100.092	100.100	100.235	98.828	98.794	98.722	98.903	95.992	98.555	97.550
BANK 3	96.694	96.646	97.848	93.550	97.648	95.730	96.289	98.663	98.789	98.433
BANK 4	98.376	98.519	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.867	99.701	99.745	99.692	99.961	99.870	99.982	98.166	98.327	98.381
BANK 6	0.000	98.112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.337	29.347	29.297	81.570	83.850	84.820	0.000	0.000	0.000	0.000

12/26

LEAK RATE INSTHUMENT CALIBRATED DATA

POINTS:

497 READING AT 851871825

	1	2	3	4	5	6	7	8	9	10
BANK 1	86.685	[illegible]	98.811	[illegible]	[illegible]	[illegible]	[illegible]	93.305	92.209	[illegible]
BANK 2	100.102	100.208	100.176	98.936	98.823	98.732	98.874	95.982	96.516	100.027
BANK 3	96.724	96.666	97.818	93.560	97.667	95.720	96.338	98.544	98.867	98.47
BANK 4	98.374	98.519	98.013	98.323	98.499	97.233	97.705	[illegible]	[illegible]	[illegible]
BANK 5	99.779	99.781	99.774	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.338	29.347	29.288	81.890	83.910	84.830	0.000	0.000	0.000	0.000

498 READING AT 851871834

	1	2	3	4	5	6	7	8	9	10
BANK 1	86.636	96.427	95.722	96.072	95.624	92.521	92.111	93.256	92.284	100.000
BANK 2	100.122	100.139	100.049	98.906	[illegible]	98.703	[illegible]	[illegible]	96.476	97.901
BANK 3	96.665	96.636	97.838	93.530	[illegible]	95.711	96.332	98.613	98.828	98.366
BANK 4	98.374	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.789	99.554	99.814	98.741	99.828	98.841	98.884	98.274	98.268	98.332
BANK 6	0.000	98.112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.288	[illegible]	29.287	81.620	83.910	84.850	0.000	0.000	0.000	0.000

499 READING AT 851871845

	1	2	3	4	5	6	7	8	9	10
BANK 1	86.616	96.358	95.732	96.002	95.875	92.471	92.168	93.246	92.294	99.998
BANK 2	[illegible]	100.011	100.186	[illegible]	[illegible]	[illegible]	[illegible]	95.953	[illegible]	97.542
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.354	98.539	97.951	98.234	98.450	97.721	97.637	99.729	99.718	99.590
BANK 5	99.828	99.583	99.649	99.741	99.814	99.811	99.904	98.353	98.278	98.353
BANK 6	0.000	98.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

500 READING AT 851871854

	1	2	3	4	5	6	7	8	9	10
BANK 1	86.616	96.330	95.722	96.043	95.503	92.511	92.105	93.286	92.314	[illegible]
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.586	96.568	97.838	93.540	97.677	95.691	96.279	98.535	98.769	98.413
BANK 4	98.335	98.450	97.974	98.244	98.440	97.781	97.817	99.721	99.669	99.560
BANK 5	99.710	99.405	99.823	99.595	99.834	99.792	99.913	98.285	98.258	98.302
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.337	29.342	29.276	81.600	83.990	84.850	0.000	0.000	0.000	0.000

501 READING AT 851871905

	1	2	3	4	5	6	7	8	9	10
BANK 1	[illegible]	[illegible]	95.718	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.043	100.060	100.196	98.847	98.754	98.742	98.815	95.913	96.436	97.530
BANK 3	96.616	96.607	97.779	93.510	97.640	95.715	96.328	98.518	98.779	98.384
BANK 4	98.305	98.480	97.954	98.224	98.450	97.672	97.607	99.719	99.652	99.502
BANK 5	99.789	99.656	99.814	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.334	29.345	29.278	81.610	83.980	84.840	0.000	0.000	0.000	0.000

502 READING AT 851871914

	1	2	3	4	5	6	7	8	9	10
BANK 1	86.607	96.319	95.673	95.994	95.545	92.570	92.095	93.197	92.264	99.979
BANK 2	100.013	100.100	100.069	98.867	98.764	98.713	98.815	95.904	96.466	97.462
BANK 3	96.606	96.744	97.789	93.510	97.599	95.661	96.259	98.594	98.799	98.285
BANK 4	98.384	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.651	99.554	99.667	99.721	99.795	99.782	99.923	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.083	0.000	0.000	0.000	0.000	0.000	98.206	98.248	98.302
BANK 7	29.336	29.342	29.293	81.620	84.000	84.890	0.000	0.000	0.000	0.000

13/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
503 READING AT 85187:1924										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.023	100.001	99.980	98.857	98.745	98.732	98.515	95.884	96.456	97.501
BANK 3	96.606	96.675	97.789	93.530	97.648	95.642	96.289	98.554	98.730	98.374
BANK 4	98.256	98.460	97.925	98.244	98.352	97.682	97.597	99.740	99.757	99.570
BANK 5	99.710	[illegible]	99.748	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.333	29.344	29.296	81.640	84.020	84.870	0.000	0.000	0.000	0.000
504 READING AT 85187:1934										
BANK 1	86.597	96.260	95.703	95.964	95.496	92.698	92.164	93.217	92.235	99.939
BANK 2	100.083	99.982	100.029	98.857	98.728	98.703	[illegible]	95.904	96.366	97.442
BANK 3	96.596	96.636	97.818	93.510	97.530	95.691	96.190	98.515	98.710	98.325
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.563	99.642	99.569	99.584	99.883	99.477	99.845	98.314	98.229	98.283
BANK 6	0.000	98.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.334	29.343	29.296	81.630	84.030	84.860	0.000	0.000	0.000	0.000
505 READING AT 85187:1944										
BANK 1	86.607	96.250	95.595	95.994	95.516	92.680	92.134	93.107	92.215	99.968
BANK 2	100.004	100.080	100.059	[illegible]	[illegible]	98.732	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.276	98.401	97.934	98.195	98.430	97.672	97.607	99.709	99.728	99.511
BANK 5	99.583	99.554	99.768	99.613	99.883	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.063	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
506 READING AT 85187:1954										
BANK 1	[illegible]	96.339	95.683	95.994	95.526	92.797	92.164	93.237	92.245	99.978
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.596	96.685	97.799	93.530	97.599	95.661	96.239	98.475	98.720	98.285
BANK 4	98.335	98.450	97.934	98.188	98.420	[illegible]	[illegible]	99.660	99.639	99.649
BANK 5	99.465	99.564	99.657	99.701	99.785	99.635	99.736	98.314	98.219	98.273
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.332	29.334	29.291	81.660	84.060	84.850	0.000	0.000	0.000	0.000
507 READING AT 85187:2004										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	100.004	99.982	100.000	98.928	98.696	98.673	[illegible]	95.874	96.486	97.403
BANK 3	96.886	96.626	97.740	93.550	97.579	95.642	[illegible]	98.535	98.701	98.364
BANK 4	98.296	98.332	97.895	98.185	98.401	97.643	97.578	99.670	99.688	99.521
BANK 5	99.710	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.332	29.341	29.290	81.680	84.090	84.880	0.000	0.000	0.000	0.000
508 READING AT 85187:2014										
BANK 1	86.597	96.270	95.634	95.964	95.467	92.659	92.134	93.197	92.245	99.938
BANK 2	99.905	99.903	100.020	98.828	98.696	98.673	98.795	95.835	96.456	97.471
BANK 3	96.527	96.597	97.719	93.580	97.599	95.652	96.180	98.466	98.730	98.344
BANK 4	98.237	98.371	97.898	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.583	99.642	99.667	99.495	99.814	99.546	99.805	98.343	98.238	98.273
BANK 6	0.000	98.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.331	29.342	29.299	81.660	84.120	84.880	0.000	0.000	0.000	0.000

14/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
509 READING AT 85187:2024										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93.417	[illegible]	[illegible]
BANK 2	100.013	100.051	100.137	98.847	98.705	98.683	98.795	95.835	96.446	97.412
BANK 3	96.567	96.587	97.808	93.540	97.479	95.632	98.141	98.495	98.710	98.325
BANK 4	98.276	98.401	97.925	98.195	98.411	97.633	97.617	99.660	99.629	99.649
BANK 5	99.593	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.331	29.340	29.283	81.740	84.100	84.850	0.000	0.000	0.000	0.000
510 READING AT 85187:2034										
BANK 1	86.587	96.250	95.595	95.964	95.447	92.649	92.075	93.197	92.186	99.968
BANK 2	99.994	99.952	100.137	98.887	98.686	98.873	98.748	98.815	96.397	97.452
BANK 3	96.537	96.520	97.740	93.560	97.550	95.632	96.171	98.505	98.710	98.325
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.691	99.525	99.696	99.505	99.706	99.625	99.726	98.304	98.209	98.253
BANK 6	0.000	98.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.326	29.347	29.291	81.670	84.110	84.840	0.000	0.000	0.000	0.000
511 READING AT 85187:2044										
BANK 1	86.587	96.250	95.588	95.964	95.457	92.609	92.114	93.150	92.196	99.949
BANK 2	99.974	100.060	99.971	98.878	[illegible]	98.613	[illegible]	95.825	96.417	97.462
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.276	98.411	97.925	98.215	98.371	97.653	97.561	99.670	99.619	99.531
BANK 5	99.455	99.508	99.647	99.633	99.765	99.674	[illegible]	98.176	98.209	98.253
BANK 6	0.000	98.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
512 READING AT 85187:2054										
BANK 1	86.547	96.260	95.611	95.905	95.477	92.750	92.124	93.168	92.225	99.929
BANK 2	99.984	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.567	96.499	97.740	93.550	97.550	95.632	96.161	98.475	98.652	98.295
BANK 4	98.227	98.352	97.956	98.156	98.381	97.644	97.580	99.729	99.670	99.651
BANK 5	99.514	99.603	99.637	99.602	99.736	99.977	99.766	98.215	98.189	98.224
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.329	29.339	29.279	81.670	84.160	84.920	0.000	0.000	0.000	0.000
513 READING AT 85187:2104										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.984	99.923	100.108	98.818	98.676	98.604	98.815	95.925	96.397	97.471
BANK 3	96.537	96.538	97.755	93.570	97.550	95.632	98.200	98.468	98.720	98.339
BANK 4	98.266	98.313	97.935	98.185	98.381	97.653	97.598	99.670	99.590	99.521
BANK 5	99.814	99.818	99.615	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	98.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.340	29.280	81.740	84.190	84.930	0.000	0.000	0.000	0.000
514 READING AT 85187:2114										
BANK 1	86.607	96.270	95.565	95.944	95.486	92.659	92.105	93.168	92.215	99.909
BANK 2	99.964	100.041	100.020	98.818	98.666	98.654	98.805	95.805	96.407	97.373
BANK 3	96.537	96.548	97.730	93.570	97.540	95.612	96.161	98.485	98.681	98.285
BANK 4	98.267	98.322	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.504	99.476	99.637	99.643	99.667	99.094	99.760	98.274	98.179	98.224
BANK 6	0.000	98.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.338	29.280	81.680	84.100	84.850	0.000	0.000	0.000	0.000

15/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
515 READING AT 85187:2124										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93.188	[illegible]	99.919
BANK 2	99.954	100.041	100.010	98.798	98.745	98.693	98.796	95.825	96.367	97.363
BANK 3	96.527	96.558	97.769	93.540	97.540	97.516	96.171	98.495	98.632	98.266
BANK 4	98.217	98.371	97.846	98.175	98.352	97.603	97.558	99.640	99.560	99.590
BANK 5	99.804	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	98.179	98.234
BANK 6	0.000	98.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.339	29.275	81.710	84.190	84.980	0.000	0.000	0.000	0.000
516 READING AT 85187:21[illegible]										
BANK 1	86.607	96.221	95.614	95.915	95.486	92.659	92.036	93.138	92.176	99.941
BANK 2	99.797	99.972	99.941	98.779	98.686	98.834	98.808	95.795	96.357	97.393
BANK 3	96.547	96.460	97.720	93.570	97.550	95.501	96.100	98.426	98.301	98.207
BANK 4	98.207	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.563	99.466	99.608	99.603	99.746	99.507	99.746	98.235	98.179	98.204
BANK 6	0.000	97.993	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.327	29.332	29.278	81.700	84.200	84.920	0.000	0.000	0.000	0.000
517 READING AT 85187:2144										
BANK 1	86.538	96.240	95.555	95.908	95.497	92.580	92.016	93.138	92.188	99.919
BANK 2	99.895	100.011	100.010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.227	98.352	97.836	98.165	98.352	97.531	97.558	99.630	99.590	99.590
BANK 5	99.495	[illegible]	99.559	99.476	[illegible]	[illegible]	[illegible]	98.218	98.180	98.224
BANK 6	0.000	97.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
518 READING AT 85187:2155										
BANK 1	86.557	96.210	95.575	95.925	95.457	92.600	92.016	[illegible]	92.205	[illegible]
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.517	96.360	97.720	93.560	97.510	95.511	96.102	98.426	98.230	98.236
BANK 4	98.170	98.391	97.856	98.178	98.248	97.874	97.548	99.611	[illegible]	99.482
BANK 5	99.544	99.574	99.539	99.033	99.718	99.550	[illegible]	98.215	98.160	98.226
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.326	29.338	29.275	81.720	84.250	84.950	0.000	0.000	0.000	0.000
519 READING AT 85187:2204										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.738	99.923	100.098	98.749	98.637	98.601	98.766	95.776	96.357	97.363
BANK 3	96.488	96.499	97.720	93.570	97.520	95.534	96.112	98.387	98.593	98.335
BANK 4	98.207	98.273	97.817	98.156	98.332	[illegible]	[illegible]	99.601	[illegible]	[illegible]
BANK 5	99.804	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.326	29.336	29.274	81.690	84.260	84.940	0.000	0.000	0.000	0.000
520 READING AT 85187:2215										
BANK 1	86.577	96.152	95.555	95.925	95.428	92.679	92.075	93.128	92.176	99.890
BANK 2	99.876	99.992	100.020	98.759	98.647	98.624	98.760	95.795	96.327	97.383
BANK 3	[illegible]	96.520	97.730	93.570	97.510	95.495	96.121	98.318	98.593	98.335
BANK 4	98.217	98.283	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.436	99.485	99.716	99.554	99.696	99.438	99.736	98.206	98.170	98.224
BANK 6	0.000	97.983	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.327	29.336	29.278	81.740	84.270	84.980	0.000	0.000	0.000	0.000

16/26

LEAK RATE INSTHUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
521 READING AT 85187:2234										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.886	99.893	100.098	98.759	98.627	98.611	98.746	95.775	96.347	97.314
BANK 3	96.449	96.460	97.691	93.570	97.510	95.553	96.131	98.377	98.691	98.187
BANK 4	98.190	98.293	97.885	98.067	98.352	97.613	97.529	99.611	99.600	99.453
BANK 5	99.883	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.973	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.325	29.335	29.278	81.730	84.280	84.750	0.000	0.000	0.000	0.000
522 READING AT 85187:22[illegible]										
BANK 1	86.646	96.131	95.605	95.905	95.428	92.688	92.026	93.099	92.146	99.890
BANK 2	99.876	100.021	99.980	98.730	[illegible]	98.614	[illegible]	96.806	96.387	97.334
BANK 3	96.459	[illegible]	97.700	93.590	97.520	95.514	96.092	98.347	98.603	98.285
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.544	99.476	99.608	99.564	99.687	99.428	99.687	98.252	98.150	98.204
BANK 6	0.000	97.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.325	29.335	29.281	[illegible]	[illegible]	84.950	0.000	0.000	0.000	0.000
523 READING AT 85187:2244										
BANK 1	86.616	96.201	95.585	95.876	95.388	92.649	92.008	93.119	92.127	99.890
BANK 2	[illegible]	[illegible]	100.059	98.710	[illegible]	98.594	[illegible]	95.715	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.149	98.332	97.790	98.126	98.322	97.925	97.490	98.552	98.531	98.462
BANK 5	99.485	99.427	99.570	99.603	99.687	[illegible]	[illegible]	[illegible]	98.180	98.188
BANK 6	0.000	97.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
524 READING AT 85187:2255										
BANK 1	86.626	96.221	95.585	95.885	95.400	92.750	92.065	93.110	92.127	99.870
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.498	96.460	97.720	93.580	97.500	95.553	96.062	98.446	98.642	98.276
BANK 4	98.198	98.342	97.807	98.146	98.332	[illegible]	97.490	99.680	99.473	99.462
BANK 5	99.504	99.392	99.569	99.466	99.706	99.193	99.697	98.157	98.150	98.193
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.323	29.334	29.282	81.760	84.300	84.950	0.000	0.000	0.000	0.000
525 READING AT 85187:2304										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.905	99.844	100.029	98.651	98.678	98.611	98.725	95.755	96.298	97.353
BANK 3	96.459	96.381	97.720	93.580	97.500	95.514	96.013	98.387	98.642	98.307
BANK 4	98.139	98.362	97.768	98.106	98.322	97.515	97.470	99.512	99.531	99.443
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.943	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.322	29.333	29.281	81.730	84.300	84.980	0.000	0.000	0.000	0.000
526 READING AT 85187:2318										
BANK 1	86.607	96.181	95.585	95.876	95.369	92.688	91.298	93.089	92.156	99.831
BANK 2	99.895	99.923	99.980	98.710	98.617	98.594	98.746	95.746	96.327	97.334
BANK 3	96.419	96.479	97.681	93.580	97.510	95.446	96.062	98.397	98.612	98.295
BANK 4	98.188	98.313	97.787	98.108	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.436	99.436	99.588	99.407	99.687	99.428	99.697	98.049	98.130	98.185
BANK 6	0.000	97.963	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.323	29.334	29.282	81.730	84.300	84.960	0.000	0.000	0.000	0.000

17/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
527 READING AT 05187:2324										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.738	99.903	99.971	98.710	98.627	98.614	98.746	95.756	96.280	97.285
BANK 3	96.351	96.391	97.700	93.590	97.491	95.495	95.974	96.436	98.701	98.227
BANK 4	98.168	98.293	97.797	98.126	98.342	97.603	97.499	99.611	99.521	99.403
BANK 5	99.478	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.943	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.322	29.333	29.276	81.740	84.330	84.990	0.000	0.000	0.000	0.000
528 READING AT 05187:2334										
BANK 1	85.607	96.122	95.546	95.856	95.329	92.570	91.996	93.069	92.146	99.850
BANK 2	99.607	99.923	99.980	98.700	98.607	98.594	98.748	95.736	96.278	97.285
BANK 3	96.360	96.342	97.730	93.570	97.481	95.475	95.993	98.330	98.612	98.336
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.426	99.417	99.549	99.387	99.687	99.301	99.667	98.137	98.111	98.175
BANK 6	0.000	97.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.322	29.332	29.268	81.740	84.350	84.980	0.000	0.000	0.000	0.000
529 READING AT 05187:2344										
BANK 1	86.646	95.602	95.575	95.846	95.378	92.718	91.907	93.089	92.148	99.860
BANK 2	99.750	99.766	100.078	98.700	98.637	98.703	98.766	95.730	96.290	97.378
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.188	98.195	97.787	98.106	98.313	97.544	97.519	99.621	99.531	99.433
BANK 5	99.455	99.436	99.588	99.407	99.677	99.389	99.717	98.148	98.130	98.173
BANK 6	0.000	97.933	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.321	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
530 READING AT 05187:2354										
BANK 1	86.607	96.093	95.526	95.895	95.339	92.313	91.030	92.086	91.888	99.742
BANK 2	99.817	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.370	96.430	97.632	93.570	97.451	95.416	95.961	98.397	98.622	98.187
BANK 4	98.168	98.283	97.777	98.087	98.303	97.428	97.434	99.483	99.491	99.405
BANK 5	99.416	99.397	99.529	99.456	99.667	99.369	99.667	98.132	98.111	98.165
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.321	29.332	29.262	81.750	84.350	84.970	0.000	0.000	0.000	0.000
531 READING AT 05188: 5										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.895	99.952	100.020	98.533	98.570	98.565	98.746	95.735	96.278	97.255
BANK 3	96.341	96.303	97.641	93.570	97.451	95.426	95.993	98.347	98.642	98.258
BANK 4	98.149	98.224	97.787	98.106	98.283	97.485	97.470	99.493	99.501	99.391
BANK 5	99.436	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.913	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.320	29.334	29.267	81.780	84.360	84.980	0.000	0.000	0.000	0.000
532 READING AT 05188: 14										
BANK 1	86.626	96.162	95.555	95.846	95.339	92.580	91.996	93.069	92.137	99.841
BANK 2	99.895	99.874	100.029	98.690	98.558	98.594	98.748	95.736	96.288	97.253
BANK 3	96.341	96.411	97.622	93.590	97.471	95.436	95.993	98.387	98.622	98.217
BANK 4	98.129	98.204	97.748	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.436	99.436	99.569	99.397	99.677	99.202	99.697	98.107	98.130	98.165
BANK 6	0.000	97.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.320	29.332	29.258	81.930	83.910	84.990	0.000	0.000	0.000	0.000

18/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
533 READING AT 05108: 25										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93.080	[illegible]	[illegible]
BANK 2	99.709	99.942	99.941	98.690	98.558	98.594	98.746	95.726	96.278	97.245
BANK 3	96.419	96.273	97.651	93.580	97.461	95.468	95.964	98.357	98.495	98.197
BANK 4	98.132	98.224	97.777	98.067	98.313	97.495	97.460	99.552	99.501	99.374
BANK 5	99.436	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.933	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.319	29.332	29.257	81.670	83.980	84.990	0.000	0.000	0.000	0.000
534 READING AT 05108: 34										
BANK 1	86.626	96.152	95.477	95.807	95.320	92.471	91.947	93.069	92.107	99.860
BANK 2	99.768	99.953	99.931	98.700	98.607	98.576	98.726	95.707	96.300	97.248
BANK 3	96.419	96.391	97.661	93.620	97.461	95.485	[illegible]	98.347	98.503	98.256
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.455	99.407	99.539	99.564	99.638	99.291	99.677	98.030	98.111	98.185
BANK 6	0.000	97.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.319	29.329	29.256	81.680	84.010	84.980	0.000	0.000	0.000	0.000
535 READING AT 05108: 45										
BANK 1	86.646	96.083	95.526	95.876	95.329	92.870	91.937	93.050	92.117	99.841
BANK 2	99.866	99.915	99.882	98.690	98.539	98.594	[illegible]	95.726	96.268	97.264
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.129	98.254	97.777	98.097	98.372	97.495	97.460	99.542	99.531	99.333
BANK 5	99.446	99.427	99.549	[illegible]	[illegible]	[illegible]	[illegible]	98.196	98.111	98.166
BANK 6	0.000	97.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.317	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
536 READING AT 05108: 54										
BANK 1	86.616	96.192	95.546	95.846	95.320	92.550	91.927	93.050	92.117	99.821
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.400	96.303	97.942	93.610	97.461	95.465	[illegible]	98.318	98.534	98.227
BANK 4	98.119	98.214	97.777	98.077	98.332	97.495	97.380	99.532	99.511	99.423
BANK 5	99.465	99.417	99.569	99.574	99.617	99.310	99.707	98.122	98.130	98.155
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.317	29.329	29.258	81.690	84.080	84.980	0.000	0.000	0.000	0.000
537 READING AT 05108: 105										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.699	99.864	99.922	98.680	98.529	98.604	98.726	95.697	96.259	97.265
BANK 3	96.331	96.381	97.730	93.630	97.481	95.387	[illegible]	98.387	98.524	98.187
BANK 4	98.139	98.303	97.768	98.106	98.273	97.515	97.410	99.522	99.531	99.403
BANK 5	99.446	99.417	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.863	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.317	29.328	29.261	81.710	84.090	85.040	0.000	0.000	0.000	0.000
538 READING AT 05108: 114										
BANK 1	86.616	96.142	95.477	95.797	95.300	92.550	91.996	93.050	92.107	99.841
BANK 2	99.856	99.874	99.892	98.700	98.519	98.594	98.766	95.707	96.298	97.228
BANK 3	96.351	96.332	97.641	93.590	97.441	95.396	95.925	98.318	98.495	98.256
BANK 4	98.139	98.348	97.709	98.087	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.387	99.387	99.549	99.564	99.657	99.487	99.687	98.196	98.091	98.136
BANK 6	0.000	97.893	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.316	29.327	29.264	81.710	84.110	85.030	0.000	0.000	0.000	0.000

19/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
539 READING AT 85180: 124										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.866	99.825	99.843	98.706	98.398	98.375	98.726	95.937	96.258	97.255
BANK 3	96.331	96.254	97.700	97.656	97.461	95.465	96.613	98.357	98.514	98.148
BANK 4	98.119	98.273	97.738	98.087	98.291	97.476	97.391	99.503	99.501	99.364
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.863	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.315	29.327	29.265	81.690	84.140	85.030	0.000	0.000	0.000	0.000
540 READING AT 85180: 138										
BANK 1	86.616	96.142	95.457	95.787	95.290	92.560	91.977	93.030	92.097	99.831
BANK 2	99.718	99.923	99.990	98.641	98.619	98.588	98.717	95.677	96.248	97.294
BANK 3	96.370	96.303	97.691	93.610	97.432	95.406	95.954	98.416	98.642	98.187
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.426	99.387	99.539	99.426	99.618	99.527	99.638	98.245	98.081	98.116
BANK 6	0.000	97.883	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.315	29.327	29.270	81.690	84.160	85.170	0.000	0.000	0.000	0.000
541 READING AT 85180: 144										
BANK 1	86.587	96.083	95.497	95.787	95.300	92.708	91.907	93.030	92.078	99.901
BANK 2	99.738	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.109	98.224	97.748	98.037	98.261	97.456	97.421	99.503	99.491	99.356
BANK 5	99.446	99.387	99.530	99.486	99.630	99.488	99.600	98.176	98.052	98.116
BANK 6	0.000	97.883	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.314	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
542 READING AT 85180: 155										
BANK 1	86.597	96.122	95.477	95.787	95.270	92.432	91.927	93.020	92.048	99.811
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.380	96.274	97.677	93.620	97.412	95.108	95.941	98.308	[illegible]	98.226
BANK 4	98.100	98.233	97.738	98.087	98.273	97.495	97.440	99.483	99.462	99.364
BANK 5	99.406	99.387	99.520	99.417	99.618	99.409	99.607	98.186	98.072	98.116
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.314	29.326	29.278	81.710	84.190	85.090	0.000	0.000	0.000	0.000
543 READING AT 85180: 204										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.728	99.874	99.912	98.612	98.300	98.535	98.636	95.628	96.238	97.245
BANK 3	96.360	96.195	97.632	93.580	97.412	95.387	95.964	98.279	98.514	98.197
BANK 4	98.060	98.283	97.728	97.998	98.234	97.456	97.382	99.463	99.432	99.345
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.833	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.314	29.326	29.282	81.710	84.210	85.090	0.000	0.000	0.000	0.000
544 READING AT 85180: 215										
BANK 1	86.567	96.024	95.438	95.708	95.261	92.452	91.898	92.991	92.038	99.801
BANK 2	99.797	99.775	100.000	98.612	98.480	98.508	98.640	95.618	96.228	97.208
BANK 3	96.370	96.254	97.632	93.570	97.383	95.416	95.934	98.328	98.495	98.187
BANK 4	98.100	98.214	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.367	99.378	99.529	99.476	99.608	99.134	99.579	98.039	98.042	98.087
BANK 6	0.000	97.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.313	29.326	29.270	81.740	84.210	85.090	0.000	0.000	0.000	0.000

20/26

LEAK RATE INSTRUMENT CALIBRATED DATA

545 READING AT 85180: 224

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.607	96.084	95.408	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.699	99.805	99.951	98.572	98.500	98.565	98.697	95.628	96.228	97.206
BANK 3	96.370	96.303	97.602	93.620	97.402	95.387	95.875	98.329	98.583	98.168
BANK 4	98.041	98.263	97.715	98.047	[illegible]	97.417	97.411	[illegible]	99.472	99.335
BANK 5	99.397	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.312	29.327	29.288	81.740	84.230	85.070	0.000	0.000	0.000	0.000

546 READING AT 85180: 234

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.577	96.044	95.408	95.720	95.270	92.471	91.927	92.981	92.029	99.782
BANK 2	99.840	99.897	99.902	98.631	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	97.198
BANK 3	96.351	96.263	97.671	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.367	99.378	99.520	99.505	[illegible]	[illegible]	[illegible]	98.040	98.052	98.087
BANK 6	0.000	97.823	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.311	29.327	29.298	81.760	84.250	85.100	0.000	0.000	0.000	0.000

547 READING AT 85180: 245

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.636	96.054	95.408	95.720	95.290	92.611	91.878	93.001	92.029	99.782
BANK 2	99.610	[illegible]	100.010	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	97.206
BANK 3	96.380	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.051	98.203	97.707	98.028	98.248	97.476	97.162	99.393	99.472	99.315
BANK 5	99.259	99.319	99.500	99.488	99.400	99.143	99.438	98.049	98.042	98.077
BANK 6	0.000	97.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

548 READING AT 85180: 254

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	[illegible]	96.093	95.417	95.680	95.270	92.401	91.868	93.001	92.028	99.782
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.390	96.225	97.700	93.630	97.392	95.387	95.866	98.289	98.524	98.178
BANK 4	98.021	98.158	97.709	98.047	98.234	97.716	97.401	99.404	99.463	99.338
BANK 5	99.367	99.350	99.529	99.476	99.479	99.249	99.588	98.039	98.023	98.067
BANK 6	0.000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.311	29.326	29.264	81.770	84.260	85.090	0.000	0.000	0.000	0.000

549 READING AT 85180: 305

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.787	99.746	99.892	98.474	98.470	[illegible]	98.648	95.599	96.169	97.177
BANK 3	96.321	96.148	97.641	93.620	97.402	95.327	95.905	98.328	98.495	98.119
BANK 4	98.070	98.185	97.719	98.008	98.224	97.456	97.372	99.414	99.462	99.335
BANK 5	99.387	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.833	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.311	29.326	29.265	81.770	84.350	85.110	0.000	0.000	0.000	0.000

550 READING AT 85180: 314

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.656	96.034	95.398	95.748	95.280	92.560	91.927	92.951	92.029	99.782
BANK 2	99.610	99.844	99.814	98.592	98.490	98.555	98.697	95.599	96.159	97.198
BANK 3	96.370	96.214	97.612	93.610	97.402	95.387	95.885	98.269	98.475	98.178
BANK 4	98.011	98.178	[illegible]	98.047	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.397	99.329	99.520	99.446	99.579	99.232	99.628	98.117	98.042	98.067
BANK 6	0.000	97.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.310	29.326	29.259	81.790	84.280	85.090	0.000	0.000	0.000	0.000

21/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
READING										
READING										
READING										
READING										
READING										
READING										

LEAK RATE INSTRUMENT CALIBRATED DATA

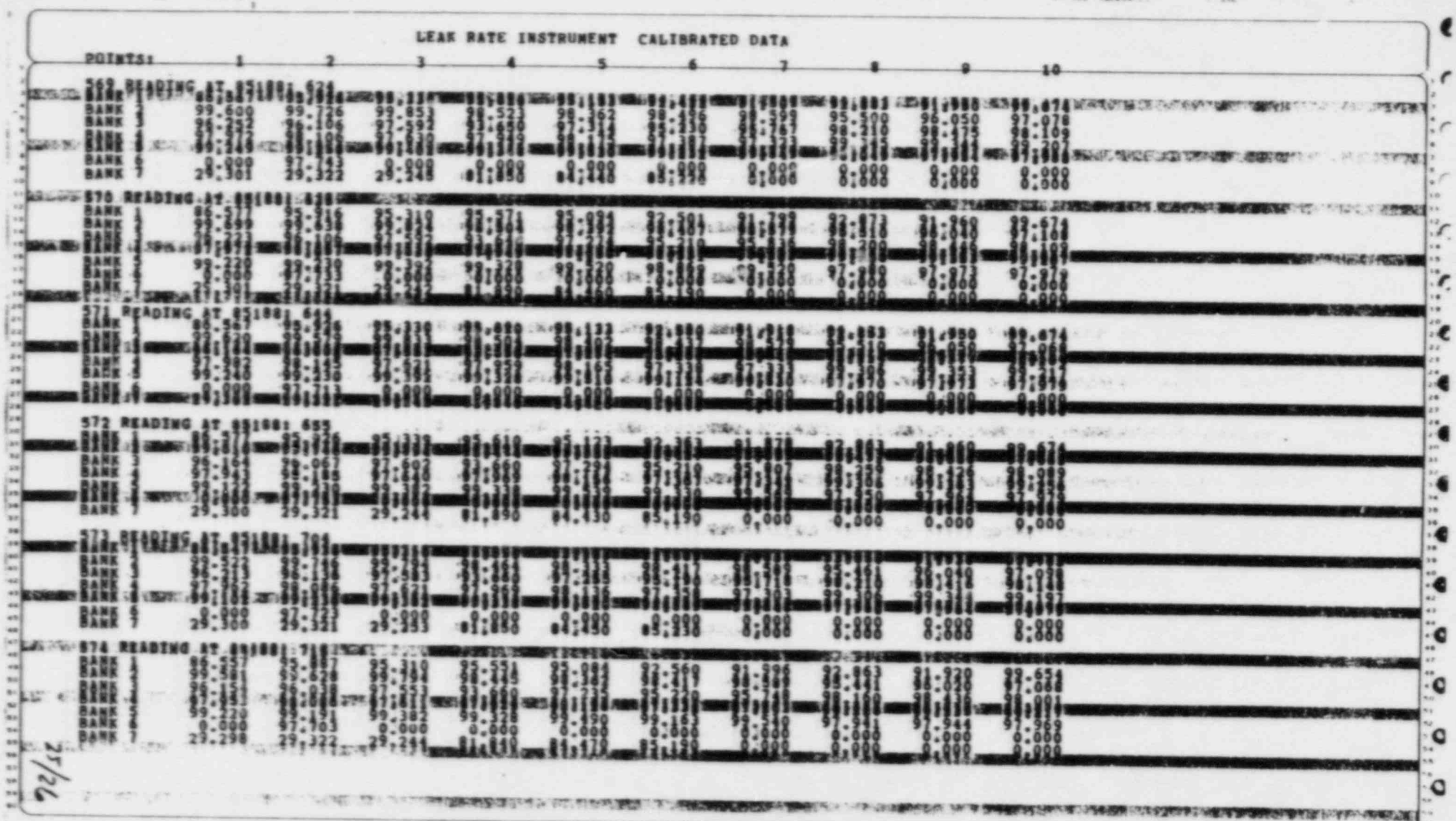
POINTS:	1	2	3	4	5	6	7	8	9	10
557 READING AT 05:00: 424										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.699	99.795	99.833	98.474	98.441	98.466	98.609	95.549	96.139	97.177
BANK 3	96.321	96.067	97.651	93.630	97.343	95.318	97.826	98.288	98.465	98.09?
BANK 4	98.041	98.175	97.600	98.008	98.165	97.367	97.391	99.474	99.422	99.375
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.763	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.308	29.323	29.283	81.780	84.340	85.180	0.000	0.000	0.000	0.000
558 READING AT 05:00: 435										
BANK 1	86.597	96.054	95.369	95.689	95.231	92.649	91.947	92.902	91.989	99.723
BANK 2	99.600	99.775	99.883	98.532	98.481	98.466	98.626	95.580	96.139	97.187
BANK 3	96.257	96.116	97.602	93.650	[illegible]	95.30?	95.866	98.288	98.426	[illegible]
BANK 4	98.081	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.298	99.329	99.480	99.348	99.269	98.268	98.549	98.018	97.993	98.018
BANK 6	0.000	97.763	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.306	29.323	29.268	81.790	84.320	85.110	0.000	0.000	0.000	0.000
559 READING AT 05:00: 444										
BANK 1	86.567	95.975	95.388	95.689	95.231	92.698	91.987	92.932	91.970	99.743
BANK 2	99.759	99.718	99.853	98.631	98.421	98.496	98.609	95.539	[illegible]	97.142
BANK 3	96.233	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	98.002	98.145	97.699	98.018	98.205	97.417	97.382	[illegible]	[illegible]	[illegible]
BANK 5	99.279	99.329	99.471	99.348	99.269	99.134	[illegible]	99.423	99.423	99.325
BANK 6	0.000	97.763	0.000	0.000	0.000	0.000	0.000	98.019	97.973	98.038
BANK 7	29.308	[illegible]	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000
560 READING AT 05:00: 455										
BANK 1	86.597	95.995	95.388	95.679	95.231	92.619	91.947	92.892	91.989	99.742
BANK 2	99.786	99.718	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	96.243	96.234	97.592	93.640	97.331	95.309	95.826	98.249	98.136	98.168
BANK 4	98.002	98.176	97.679	98.008	98.178	97.407	97.333	99.434	99.383	99.305
BANK 5	99.210	99.319	99.490	99.387	99.269	99.242	99.459	98.019	97.983	98.018
BANK 6	0.000	97.763	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.305	29.323	29.257	81.800	84.370	85.170	0.000	0.000	0.000	0.000
561 READING AT 05:00: 504										
BANK 1	86.577	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.610	99.795	99.814	98.592	98.421	98.466	98.589	95.549	96.070	97.118
BANK 3	96.272	96.185	97.603	93.688	97.333	95.308	95.757	98.229	98.504	98.148
BANK 4	97.983	98.155	97.670	[illegible]	98.172	97.456	97.333	99.414	99.412	99.305
BANK 5	99.330	99.319	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.743	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.305	29.323	29.257	81.810	84.380	85.130	0.000	0.000	0.000	0.000
562 READING AT 05:00: 514										
BANK 1	86.567	95.896	95.408	95.659	95.221	92.679	91.937	92.883	91.975	99.713
BANK 2	99.669	99.707	99.833	98.563	98.421	98.456	98.589	95.530	96.080	97.088
BANK 3	96.203	96.126	97.592	93.630	97.343	95.269	95.757	98.210	98.485	98.160
BANK 4	98.011	98.148	97.670	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	99.298	99.299	99.461	99.387	99.559	98.397	99.559	97.980	97.993	98.008
BANK 6	0.000	97.713	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.305	29.323	29.265	81.820	84.410	85.150	0.000	0.000	0.000	0.000

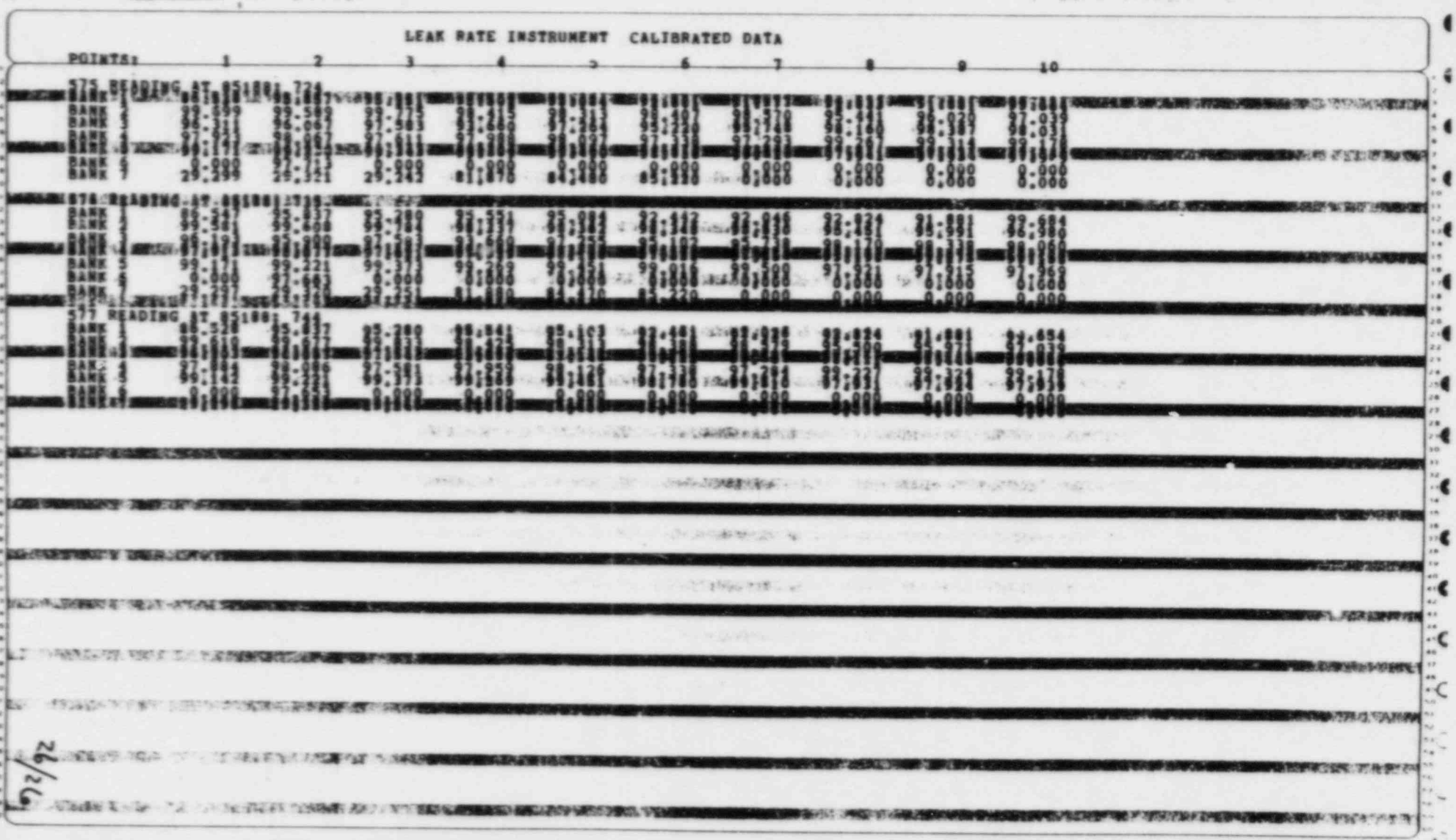
27/26

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
READING										
READING										
READING										
READING										
READING										
READING										

84/26


LEAK RATE INSTRUMENT CALIBRATED DATA
POINTS: 1 2 3 4 5 6 7 8 9 10
569 READING AT 851881 624
570 READING AT 851881 638
571 READING AT 851881 651
572 READING AT 851881 655
573 READING AT 851881 701
574 READING AT 851881 718


LEAK RATE INSTRUMENT CALIBRATED DATA
POINTS: 1 2 3 4 5 6 7 8 9 10
575 READING AT 05188: 724
BANK 1
BANK 2
BANK 3
BANK 4
BANK 5
BANK 6
BANK 7
29.299 29.321 29.243 81.870 84.288 85.888 0.000 0.000 0.000 0.000
576 READING AT 05188: 738
BANK 1
BANK 2
BANK 3
BANK 4
BANK 5
BANK 6
577 READING AT 05188: 744
BANK 1
BANK 2
BANK 3
BANK 4
BANK 5
BANK 6

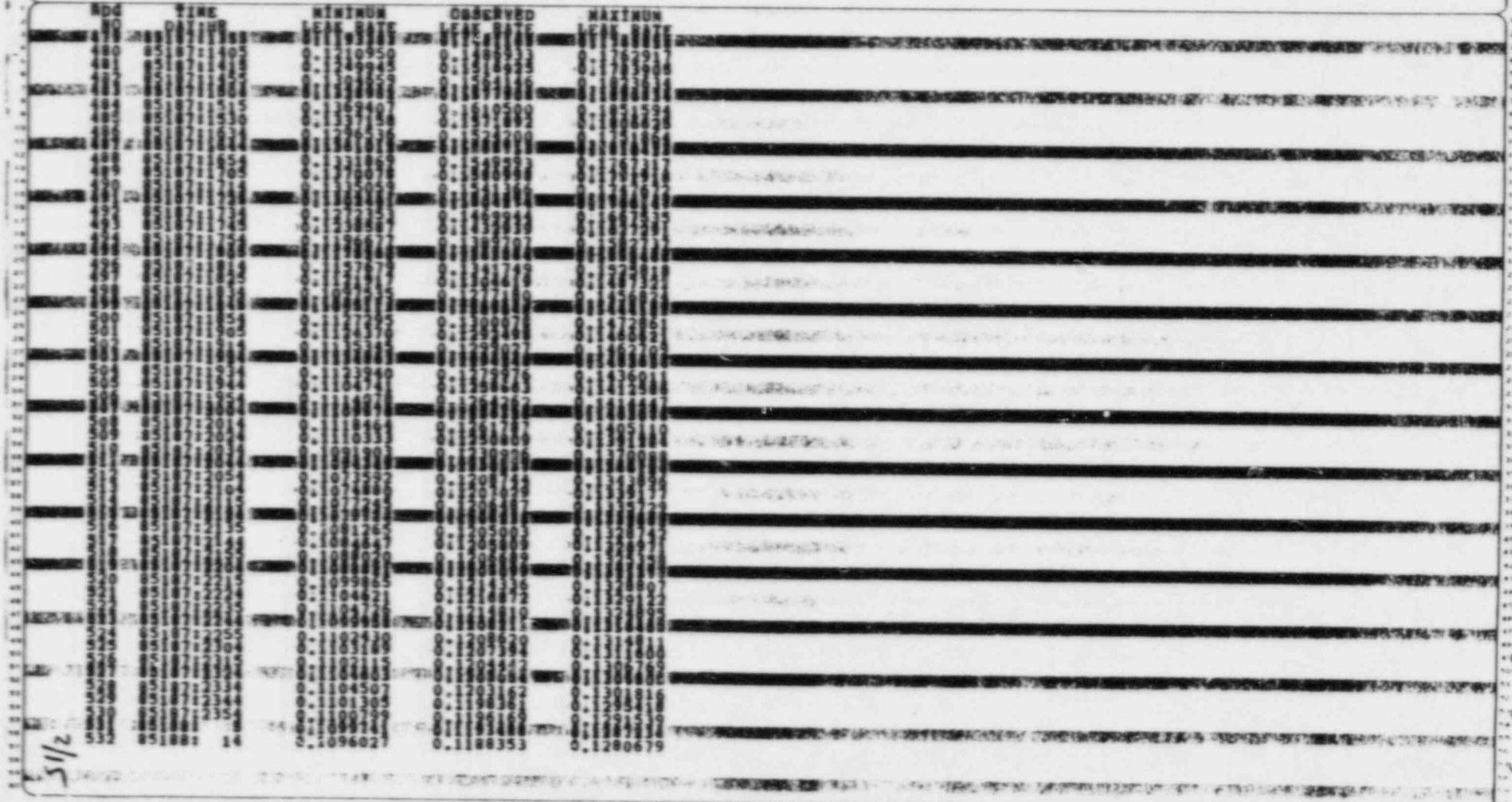
FULL PRESSURE TEST 24 HOUR RESULTS

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

ROC	TIME	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
1	1	0.0000000	0.0000000	0.0000000
2	2	0.0000000	0.0000000	0.0000000
3	3	0.0000000	0.0000000	0.0000000
4	4	0.0000000	0.0000000	0.0000000
5	5	0.0000000	0.0000000	0.0000000
6	6	0.0000000	0.0000000	0.0000000
7	7	0.0000000	0.0000000	0.0000000
8	8	0.0000000	0.0000000	0.0000000
9	9	0.0000000	0.0000000	0.0000000
10	10	0.0000000	0.0000000	0.0000000
11	11	0.0000000	0.0000000	0.0000000
12	12	0.0000000	0.0000000	0.0000000
13	13	0.0000000	0.0000000	0.0000000
14	14	0.0000000	0.0000000	0.0000000
15	15	0.0000000	0.0000000	0.0000000
16	16	0.0000000	0.0000000	0.0000000
17	17	0.0000000	0.0000000	0.0000000
18	18	0.0000000	0.0000000	0.0000000
19	19	0.0000000	0.0000000	0.0000000
20	20	0.0000000	0.0000000	0.0000000
21	21	0.0000000	0.0000000	0.0000000
22	22	0.0000000	0.0000000	0.0000000
23	23	0.0000000	0.0000000	0.0000000
24	24	0.0000000	0.0000000	0.0000000
25	25	0.0000000	0.0000000	0.0000000
26	26	0.0000000	0.0000000	0.0000000
27	27	0.0000000	0.0000000	0.0000000
28	28	0.0000000	0.0000000	0.0000000
29	29	0.0000000	0.0000000	0.0000000
30	30	0.0000000	0.0000000	0.0000000
31	31	0.0000000	0.0000000	0.0000000
32	32	0.0000000	0.0000000	0.0000000
33	33	0.0000000	0.0000000	0.0000000
34	34	0.0000000	0.0000000	0.0000000
35	35	0.0000000	0.0000000	0.0000000
36	36	0.0000000	0.0000000	0.0000000
37	37	0.0000000	0.0000000	0.0000000
38	38	0.0000000	0.0000000	0.0000000
39	39	0.0000000	0.0000000	0.0000000
40	40	0.0000000	0.0000000	0.0000000
41	41	0.0000000	0.0000000	0.0000000
42	42	0.0000000	0.0000000	0.0000000
43	43	0.0000000	0.0000000	0.0000000
44	44	0.0000000	0.0000000	0.0000000
45	45	0.1160667	0.1460237	0.1759807

5/11

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)



RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

PDG	TIME	MINIMUM	OBSERVED	MAXIMUM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

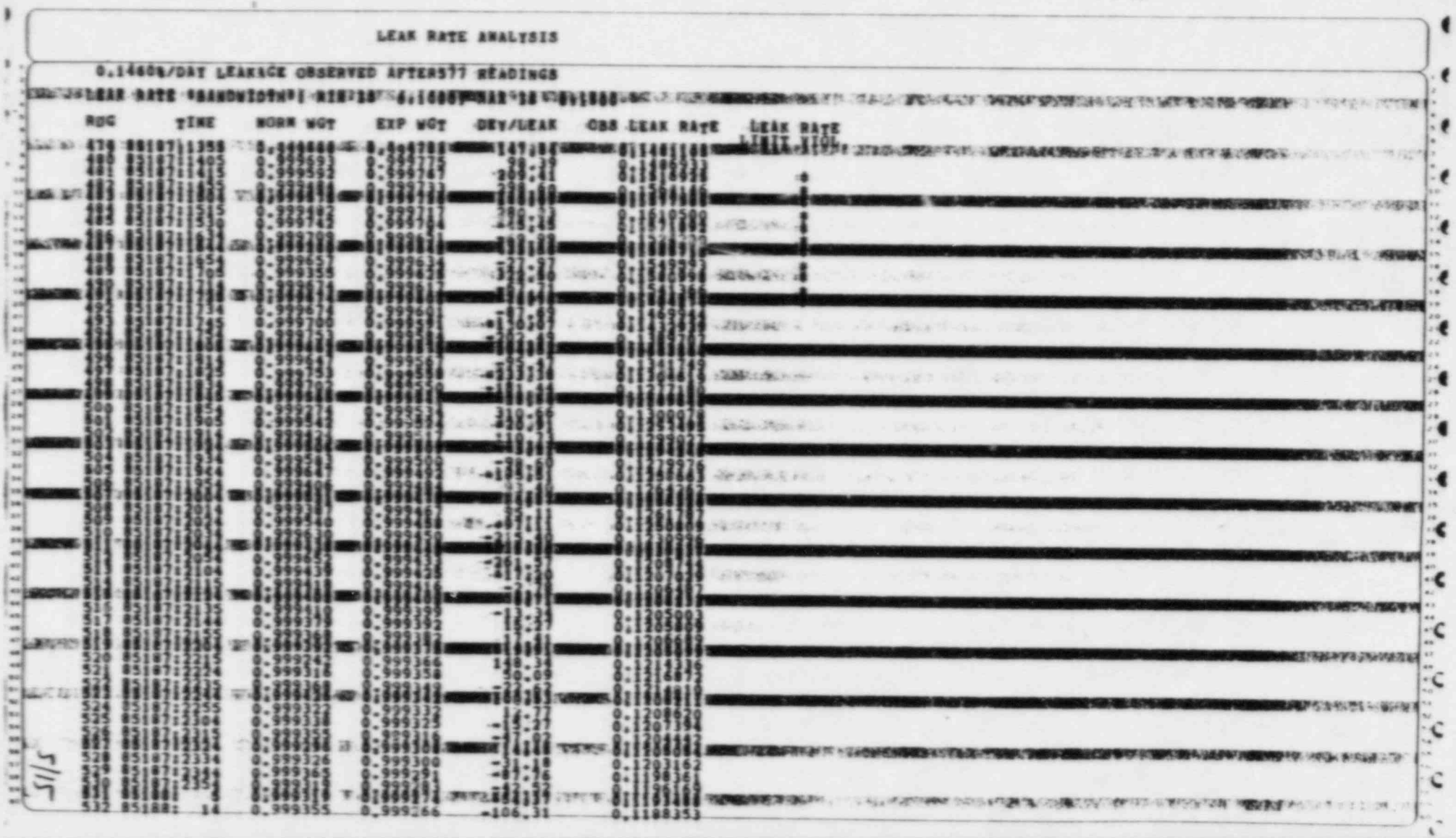
3/15

LEAK RATE ANALYSIS

0.12036/DAY LEAKAGE OBSERVED AFTER577 READINGS

NOG	TIME	NORM WGT	EXP WGT	DEV/LEAK	OBS LEAK RATE	LEAK RATE LIMIT

4/15


LEAK RATE ANALYSIS
0.1460%/DAY LEAKAGE OBSERVED AFTER577 READINGS
RDG
TIME
NORM WGT
EXP WGT
DEV/LEAK
OBS LEAK RATE
LEAK RATE
LIMIT VIOL

LEAK RATE ANALYSIS

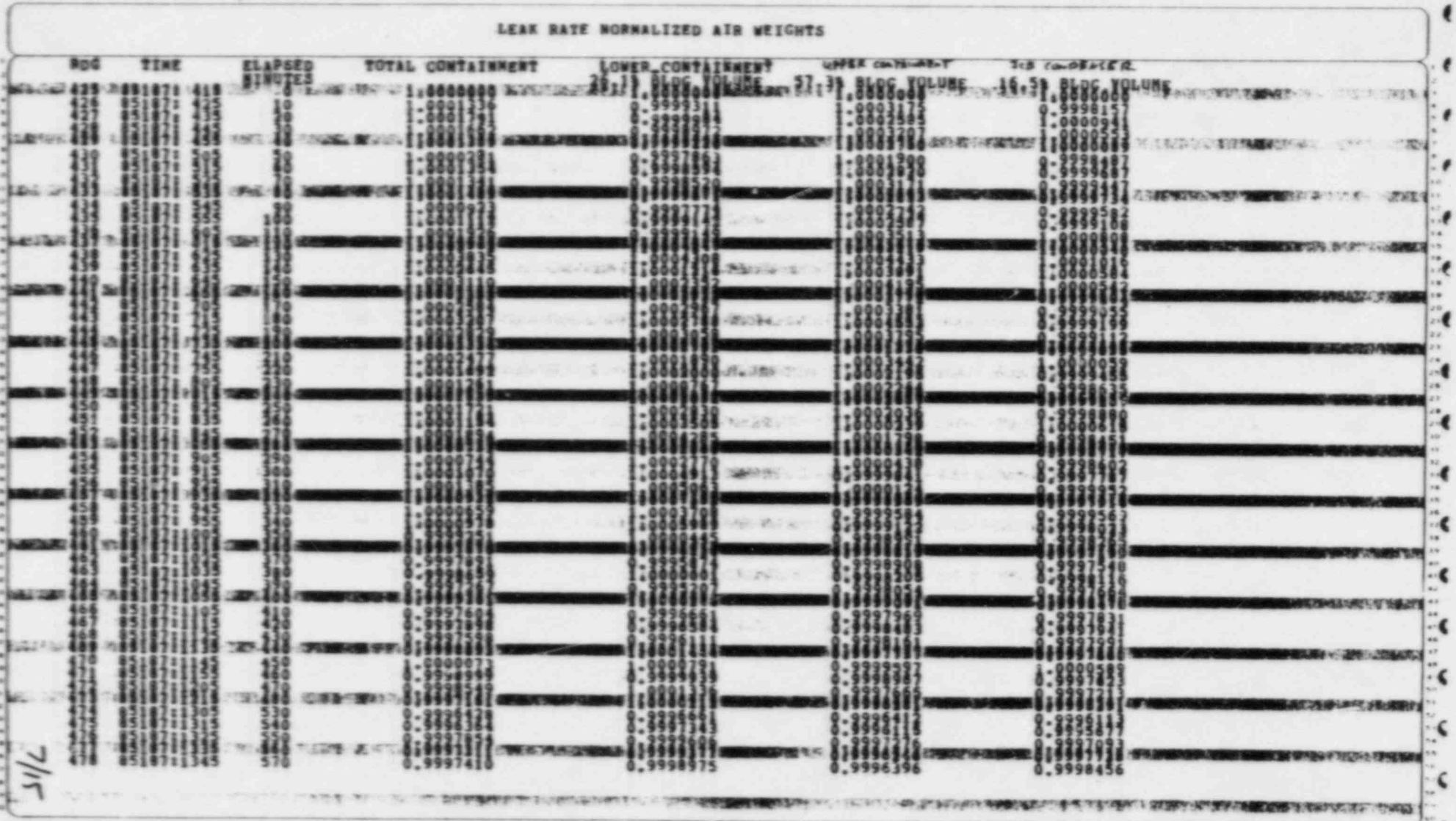
0.11[illegible]%/DAY LEAKAGE OBSERVED AFTER STT READINGS

LEAK RATE [illegible]

RDG	TIME	NORM WGT	EXP WGT	DEV/LEAK	OBS LEAK RATE	LEAK RATE LIMIT HIGH

5/19

LEAK RATE NORMALIZED AIR WEIGHTS



LEAK RATE NORMALIZED AIR WEIGHTS

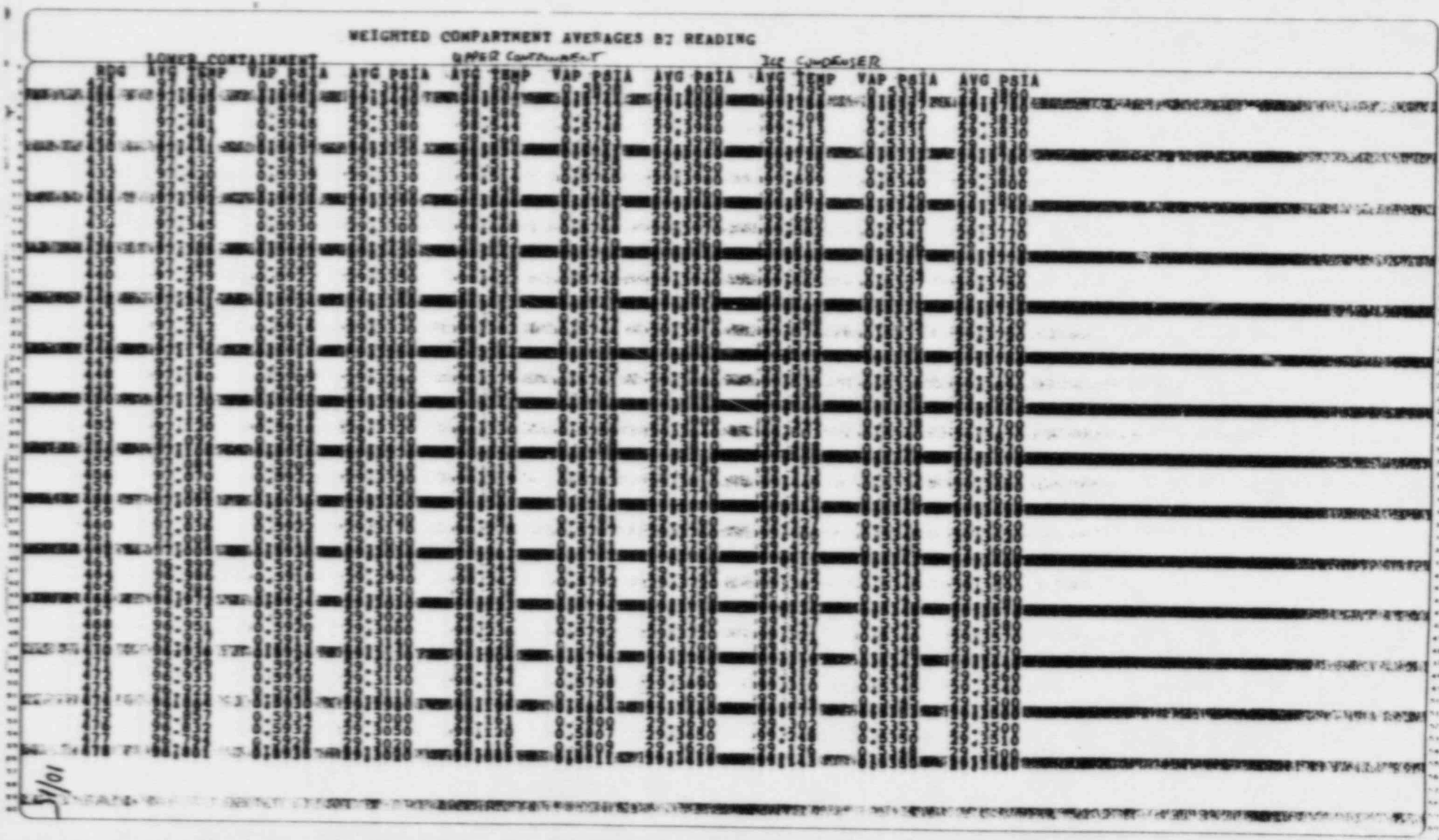
RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.11% BLDG VOLUME	UPPER CONTAINMENT 57.39% BLDG VOLUME	ICE CONDENSER 16.5% BLDG VOLUME
479	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
480	851871405	590	0.9998325	0.9997701	0.9995022	0.9999199
481	851871415	600	0.9998316	0.9997783	0.9998897	0.9997613
482	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
483	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
484	851871515	660	0.9997520	0.9997728	0.9994488	0.9997590
485	851871530	670	[illegible]	0.9997695	0.9997092	0.9997811
486	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
487	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
488	851871654	759	[illegible]	[illegible]	0.9994905	0.9996825
489	851871705	770	[illegible]	0.9998356	0.9993739	0.9993845
490	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
491	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
492	851871735	799	0.9995738	1.0001025	0.9996037	0.9997191
493	851871745	810	[illegible]	[illegible]	0.9994776	0.9996929
494	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
495	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
496	851871815	[illegible]	[illegible]	1.0000545	[illegible]	0.9997724
497	851871825	850	[illegible]	[illegible]	[illegible]	0.9995814
498	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
499	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
500	851871854	879	[illegible]	[illegible]	[illegible]	[illegible]
501	851871905	890	[illegible]	[illegible]	[illegible]	0.9996602
502	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
503	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
504	851871934	919	[illegible]	[illegible]	0.9994429	0.9996026
505	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
506	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
507	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
508	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
509	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
510	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
511	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
512	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
513	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
514	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
515	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
516	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
517	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
518	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
519	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
520	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
521	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
522	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
523	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
524	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
525	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
526	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
527	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
528	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
529	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
530	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
531	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
532	85188: 14	1199	0.9993551	0.9989320	0.9993878	0.9993877

8/15

LEAK RATE NORMALIZED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.13 BLDG VOLUME	UPPER CONTAINMENT 57.35 BLDG VOLUME	ICE CONDENSER 16.53 BLDG VOLUME
533	851001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
534	851001 34	1219	0.9992688	0.9989020	0.9992958	0.9993213
535	851001 45	1230	0.9993445	0.9989640	0.9991769	0.9992488
536	851001 [illegible]	[illegible]	[illegible]	0.9989783?	0.9991986	0.9993240
537	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
538	851001 114	1259	0.9991453	0.9991673	0.9991093	0.9991507
539	851001 124	1269	0.9991286?	0.9991061?	0.9991026	0.9992438
540	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
541	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
542	851001 155	1300	0.9991406?	0.9990840?	0.9990372	0.9991744
543	851001 [illegible]	1309	0.9992374?	[illegible]	[illegible]	0.9992246
544	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9992076
545	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
546	851001 [illegible]	[illegible]	0.9992891?	0.9993030?	[illegible]	0.9991282
547	851001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9991799
548	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
549	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
550	851001 314	1379	0.9992734?	[illegible]	[illegible]	0.9990538
551	851001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9990979
552	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9990912
553	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
554	851001 354	1419	0.9991280?	[illegible]	[illegible]	0.9991882
555	851001 404	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
556	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
557	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
558	851001 435	1460	[illegible]	[illegible]	0.9989772?	[illegible]
559	851001 444	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
560	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
561	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
562	851001 514	1499	[illegible]	[illegible]	0.9989320?	0.9989627?
563	851001 524	1509	[illegible]	[illegible]	[illegible]	[illegible]
564	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
565	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
566	851001 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
567	851001 605	1550	[illegible]	[illegible]	0.9989146	0.9989573
568	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
569	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
570	851001 [illegible]	1580	0.9988452	[illegible]	[illegible]	0.9989001
571	851001 644	1589	0.9988454?	[illegible]	0.9989167?	0.9989443
572	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
573	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
574	851001 715	1620	0.9988130	[illegible]	[illegible]	0.9988370
575	851001 [illegible]	1629	[illegible]	[illegible]	[illegible]	[illegible]
576	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
577	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

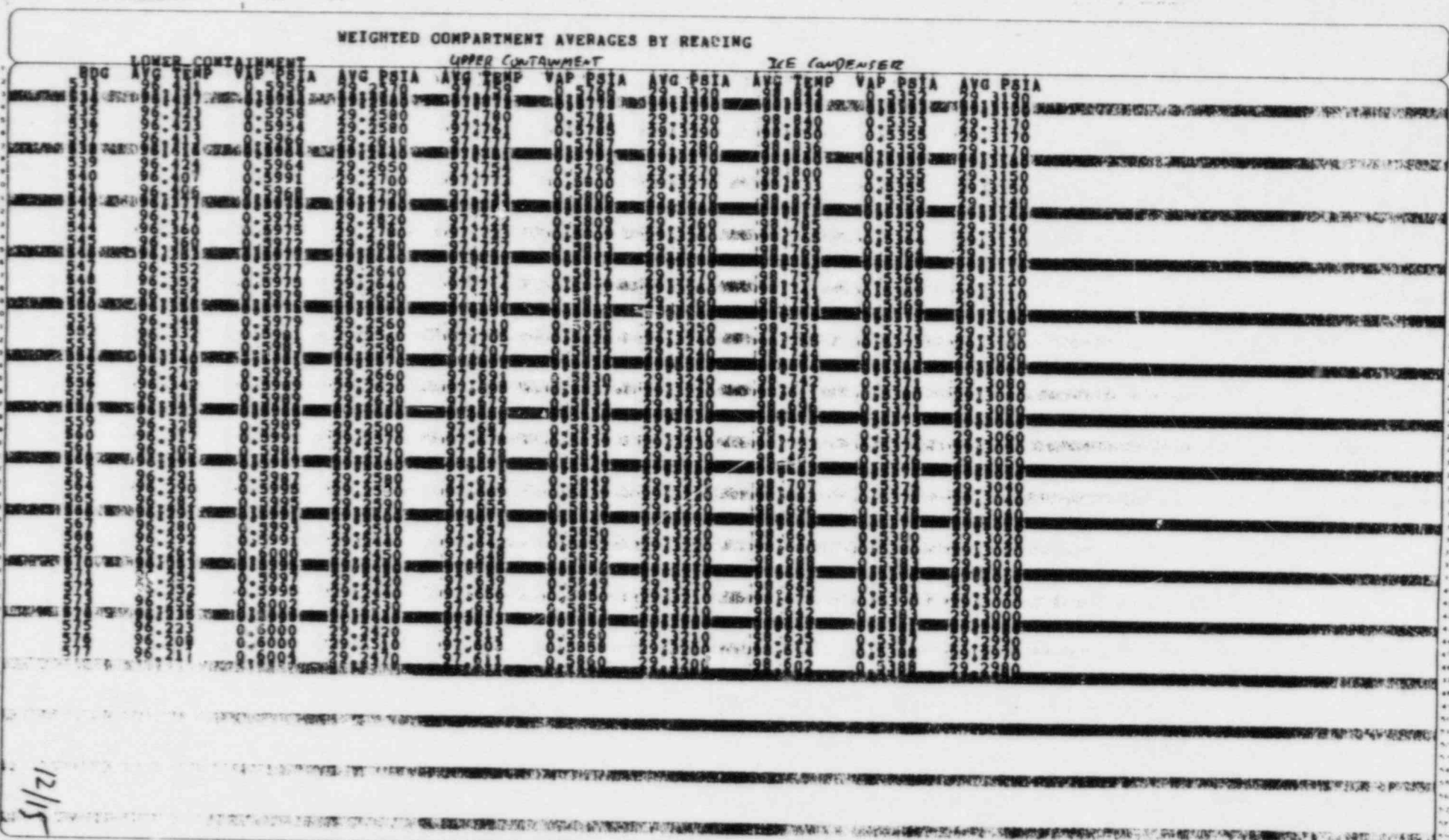
9/15


WEIGHTED COMPARTMENT AVERAGES BY READING
LOWER CONTAINMENT
UPPER CONTAINMENT
ICE CONDENSER
RDG
AVG
TEMP
VAP
PSIA
AVG
PSIA
AVG
TEMP
VAP
PSIA
AVG
PSIA
AVG
TEMP
VAP
PSIA
AVG
PSIA

WEIGHTED COMPARTMENT AVERAGES BY READING

	LOWER CONTAINMENT				UPPER CONTAINMENT				ICE CONDENSER			
	DOG AVG TEMP	VAP PSIA	AVG PSIA	AVG	TEMP	VAP PSIA	AVG PSIA	AVG	TEMP	VAP PSIA	AVG PSIA	AVG

WEIGHTED COMPARTMENT AVERAGES BY READING



12/15

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	UPPER CONTAINMENT 57.3% BLDG VOLUME	ICE CONDENSER 16.5% BLDG VOLUME
425	85187: 415	0	[illegible]	[illegible]	[illegible]	[illegible]
426	85187: 425	10	0.0516114	0.0515919	0.0516345	0.0515622
427	85187: 435	20	0.0516138	0.0515954	0.0516315	0.0515768
428	85187: 445	30	0.0516131	0.0515902	0.0516347	0.0515746
429	[illegible]	40	[illegible]	[illegible]	[illegible]	[illegible]
430	85187: 505	50	0.0516060	0.0515844	0.0516279	0.0515639
431	85187: 515	60	0.0516115	0.0515882	0.0516327	0.0515701
432	85187: 525	70	0.0516115	0.0515878	0.0516345	0.0515689
433	[illegible]	80	[illegible]	[illegible]	[illegible]	[illegible]
434	85187: 545	90	0.0516093	0.0515840	0.0516323	0.0515696
435	85187: 555	100	0.0516103	0.0515910	0.0516318	0.0515671
436	85187: 605	110	0.0516145	0.0515971	0.0516303	0.0515759
437	[illegible]	120	[illegible]	[illegible]	[illegible]	[illegible]
438	85187: 625	130	0.0516243	0.0516177	0.0516410	0.0515769
439	85187: 635	140	0.0516182	0.0516017	0.0516383	0.0515747
440	85187: 645	150	0.0516206	0.0516026	0.0516298	0.0515746
441	[illegible]	160	[illegible]	[illegible]	[illegible]	[illegible]
442	85187: 705	170	0.0516179	0.0516108	0.0516356	0.0515668
443	85187: 715	180	0.0516211	0.0516098	0.0516416	0.0515676
444	85187: 725	190	0.0516191	0.0516112	0.0516377	0.0515671
445	[illegible]	200	[illegible]	[illegible]	[illegible]	[illegible]
446	85187: 745	210	0.0516173	0.0516052	0.0516359	0.0515720
447	85187: 755	220	0.0516133	0.0516088	0.0516291	0.0515689
448	85187: 805	230	0.0516110	0.0515994	0.0516297	0.0515647
449	[illegible]	240	[illegible]	[illegible]	[illegible]	[illegible]
450	85187: 825	250	0.0516134	0.0516101	0.0516286	0.0515659
451	85187: 835	260	0.0516108	0.0516138	0.0516194	0.0515749
452	85187: 845	270	0.0516143	0.0516176	0.0516270	0.0515637
453	[illegible]	280	[illegible]	[illegible]	[illegible]	[illegible]
454	85187: 905	290	0.0516084	0.0516096	0.0516291	0.0515645
455	85187: 915	300	0.0516101	0.0516206	0.0516173	0.0515603
456	85187: 925	310	0.0516117	0.0516216	0.0516180	0.0515715
457	[illegible]	320	[illegible]	[illegible]	[illegible]	[illegible]
458	85187: 945	330	0.0516079	0.0516146	0.0516160	0.0515695
459	85187: 955	340	0.0516096	0.0516264	0.0516136	0.0515618
460	85187:1005	350	0.0516007	0.0515970	0.0516129	0.0515628
461	[illegible]	360	[illegible]	[illegible]	[illegible]	[illegible]
462	85187:1025	370	0.0515937	0.0515742	0.0516125	0.0515591
463	85187:1035	380	0.0515976	0.0515958	0.0516089	0.0515620
464	85187:1045	390	0.0515904	0.0515707	0.0516081	0.0515597
465	[illegible]	400	[illegible]	[illegible]	[illegible]	[illegible]
466	85187:1105	410	0.0515922	0.0515782	0.0516077	0.0515605
467	85187:1115	420	0.0515937	0.0515776	0.0516103	0.0515611
468	85187:1125	430	0.0515921	0.0515754	0.0516086	0.0515614
469	[illegible]	440	[illegible]	[illegible]	[illegible]	[illegible]
470	85187:1145	450	0.0516049	0.0515995	0.0516161	0.0515747
471	85187:1155	460	0.0515994	0.0515951	0.0516128	0.0515595
472	85187:1205	470	0.0515971	0.0516024	0.0516061	0.0515573
473	[illegible]	480	[illegible]	[illegible]	[illegible]	[illegible]
474	85187:1305	530	0.0515861	0.0515782	0.0515996	0.0515517
475	85187:1315	540	0.0515858	0.0515818	0.0515961	0.0515494
476	85187:1325	550	0.0515935	0.0515934	0.0516041	0.0515567
477	[illegible]	560	[illegible]	[illegible]	[illegible]	[illegible]
478	85187:1345	570	0.0515912	0.0515902	0.0515995	0.0515637

13/15

LEAK RATE CALCULATED AIR WEIGHTS

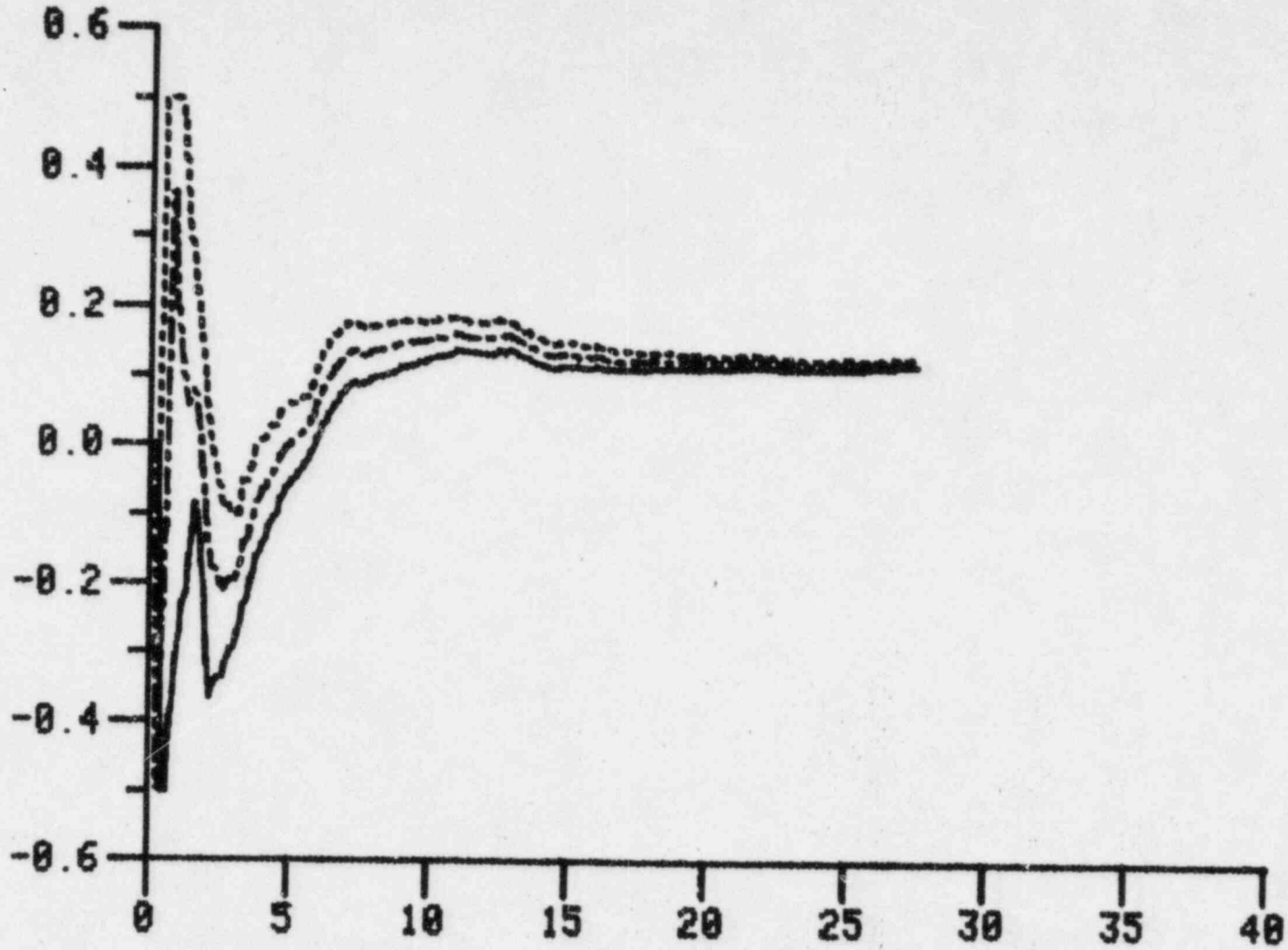
RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	UPPER CONTAINMENT 57.3% BLDG VOLUME	ICE CONDENSER 16.5% BLDG VOLUME
479	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
480	85187:1405	590	0.0515887	0.0515836	0.0515971	0.0515676
481	85187:1415	600	0.0515835	0.0515582	0.0516019	0.0515594
482	85187:1455	640	0.0515779	0.0515664	0.0515895	0.0515550
483	85187:1504	649	[illegible]	[illegible]	[illegible]	[illegible]
484	85187:1515	660	0.0515778	0.0515635	0.0515897	0.0515593
485	85187:1530	675	0.0515912	0.0515846	0.0516031	0.0515604
486	85187:1634	739	0.0515895	0.0516006	0.0515956	0.0515509
487	85187:1644	749	[illegible]	[illegible]	[illegible]	[illegible]
488	85187:1654	759	0.0515869	0.0515959	0.0515918	0.0515553
489	85187:1705	770	0.0515714	0.0515870	0.0515806	0.0515400
490	85187:1714	779	0.0515877	0.0515993	0.0515905	0.0515597
491	[illegible]	790	[illegible]	[illegible]	[illegible]	[illegible]
492	85187:1734	799	0.0515877	0.0516008	0.0515977	0.0515572
493	85187:1745	810	0.0515890	0.0515992	0.0515912	0.0515538
494	85187:1754	819	0.0515916	0.0516023	0.0515898	0.0515408
495	85187:1805	830	[illegible]	[illegible]	[illegible]	[illegible]
496	85187:1814	839	0.0515863	0.0515983	0.0515964	0.0515497
497	85187:1825	850	0.0515916	0.0515778	0.0515934	0.0515501
498	85187:1834	859	0.0515892	0.0515809	0.0515909	0.0515626
499	85187:1845	870	[illegible]	[illegible]	[illegible]	[illegible]
500	85187:1854	879	0.0515671	0.0515639	0.0515862	0.0515542
501	85187:1905	890	0.0515809	0.0515870	0.0515932	0.0515486
502	85187:1914	899	0.0515748	0.0515940	0.0515868	0.0515526
503	[illegible]	909	[illegible]	[illegible]	[illegible]	[illegible]
504	85187:1934	919	0.0515830	0.0516019	0.0515897	0.0515512
505	85187:1944	929	0.0515863	0.0516082	0.0515907	0.0515474
506	85187:1954	939	0.0515739	0.0515901	0.0515724	[illegible]
507	85187:2004	949	[illegible]	[illegible]	[illegible]	[illegible]
508	85187:2014	959	0.0515729	0.0516082	0.0515861	0.0515452
509	85187:2024	969	0.0515808	0.0515786	0.0515831	0.0515436
510	85187:2034	979	0.0515854	0.0515950	0.0515964	0.0515379
511	85187:2044	989	[illegible]	[illegible]	[illegible]	[illegible]
512	85187:2054	999	0.0515866	0.0515735	0.0515920	0.0515473
513	85187:2104	1009	0.0515756	0.0515738	0.0515829	0.0515436
514	85187:2115	1020	0.0515745	0.0515766	0.0515807	0.0515372
515	85187:2124	1029	[illegible]	[illegible]	[illegible]	[illegible]
516	85187:2135	1040	0.0515741	0.0515733	0.0515799	0.0515421
517	85187:2144	1049	0.0515725	0.0515816	0.0515782	0.0515423
518	85187:2155	1060	0.0515719	[illegible]	0.0515792	0.0515393
519	85187:2204	1069	[illegible]	[illegible]	[illegible]	[illegible]
520	85187:2215	1080	0.0515653	0.0515723	0.0515769	0.0515423
521	85187:2224	1089	0.0515693	0.0515690	0.0515759	0.0515404
522	85187:2235	1100	0.0515719	0.0515785	0.0515744	0.0515398
523	85187:2244	1109	[illegible]	[illegible]	[illegible]	[illegible]
524	85187:2255	1120	0.0515695	0.0515811	0.0515720	0.0515391
525	85187:2304	1129	0.0515703	0.0515810	0.0515731	0.0515384
526	85187:2315	1140	0.0515712	0.0515827	0.0515748	0.0515409
527	85187:2324	1149	[illegible]	[illegible]	[illegible]	[illegible]
528	85187:2334	1159	0.0515697	0.0515589	0.0515710	0.0515400
529	85187:2344	1169	0.0515718	0.0515602	0.0515697	0.0515348
530	85187:2354	1179	0.0515694	0.0515511	0.0515715	0.0515381
531	85188: 5	1190	[illegible]	[illegible]	[illegible]	[illegible]
532	85188: 14	1199	0.0515713	0.0515404	0.0515865	0.0515401

5I/H

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME		ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	UPPER CONTAINMENT 57.3% BLDG VOLUME	ICE CONDENSER 16.5% BLDG VOLUME
533	85188:	[illegible]	1210	[illegible]	[illegible]	[illegible]	[illegible]
534	85188:	34	1219	0.0515660	0.0515388	0.0515771	0.0515367
535	85188:	45	1230	0.0515655	0.0515420	0.0515756	0.0515330
536	85188:	54	1239	0.0515604	0.0515427	0.0515768	0.0515317
537	85188:	105	1250	[illegible]	[illegible]	[illegible]	[illegible]
538	85188:	114	1259	0.0515604	0.0515525	0.0515722	0.0515283
539	85188:	124	1269	0.0515596	0.0515535	0.0515718	0.0515327
540	85188:	135	1280	0.0515598	0.0515592	0.0515694	0.0515296
541	85188:	144	1289	[illegible]	[illegible]	[illegible]	[illegible]
542	85188:	155	1300	0.0515602	0.0515792	0.0515684	0.0515291
543	85188:	204	1309	0.0515662	0.0515667	0.0515707	0.0515317
544	85188:	215	1320	0.0515647	0.0515808	0.0515706	0.0515308
545	85188:	224	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
546	85188:	234	1339	0.0515667	0.0515595	0.0515712	0.0515268
547	85188:	245	1350	0.0515662	0.0515560	0.0515719	0.0515294
548	85188:	254	1359	0.0515647	0.0515563	0.0515698	0.0515285
549	85188:	305	1370	[illegible]	[illegible]	[illegible]	[illegible]
550	85188:	314	1379	0.0515671	0.0515471	0.0515706	0.0515229
551	85188:	325	1390	0.0515622	0.0515416	0.0515666	0.0515282
552	85188:	334	1399	0.0515600	0.0515427	0.0515653	0.0515218
553	85188:	[illegible]	1410	[illegible]	[illegible]	[illegible]	[illegible]
554	85188:	354	1419	0.0515594	0.0515438	0.0515670	0.0515299
555	85188:	404	1429	0.0515601	0.0515637	0.0515663	0.0515227
556	85188:	415	1439	0.0515560	0.0515512	0.0515606	0.0515332
557	85188:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
558	85188:	435	1460	0.0515527	0.0515645	0.0515653	0.0515252
559	85188:	444	1469	0.0515561	0.0515309	0.0515596	0.0515209
560	85188:	455	1480	0.0515585	0.0515462	0.0515639	0.0515185
561	85188:	504	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
562	85188:	514	1499	0.0515513	0.0515613	0.0515633	0.0515233
563	85188:	524	1509	0.0515558	0.0515497	0.0515627	0.0515163
564	85188:	534	1519	0.0515562	0.0515476	0.0515631	0.0515198
565	85188:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
566	85188:	554	1539	0.0515519	0.0515520	0.0515615	0.0515165
567	85188:	605	1550	[illegible]	0.0515368	0.0515681	0.0515179
568	85188:	614	1559	0.0515576	0.0515232	0.0515631	0.0515162
569	85188:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
570	85188:	635	1580	0.0515519	0.0515225	0.0515530	0.0515150
571	85188:	644	1589	0.0515548	0.0515230	0.0515623	0.0515173
572	85188:	655	1600	0.0515387	0.0515261	0.0515604	0.0515108
573	85188:	704	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
574	85188:	715	1620	0.0515433	0.0515278	0.0515649	0.0515117
575	85188:	724	1629	0.0515485	0.0515243	0.0515627	0.0515146
576	85188:	735	1640	0.0515461	0.0515418	0.0515622	0.0515117
577	85188:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

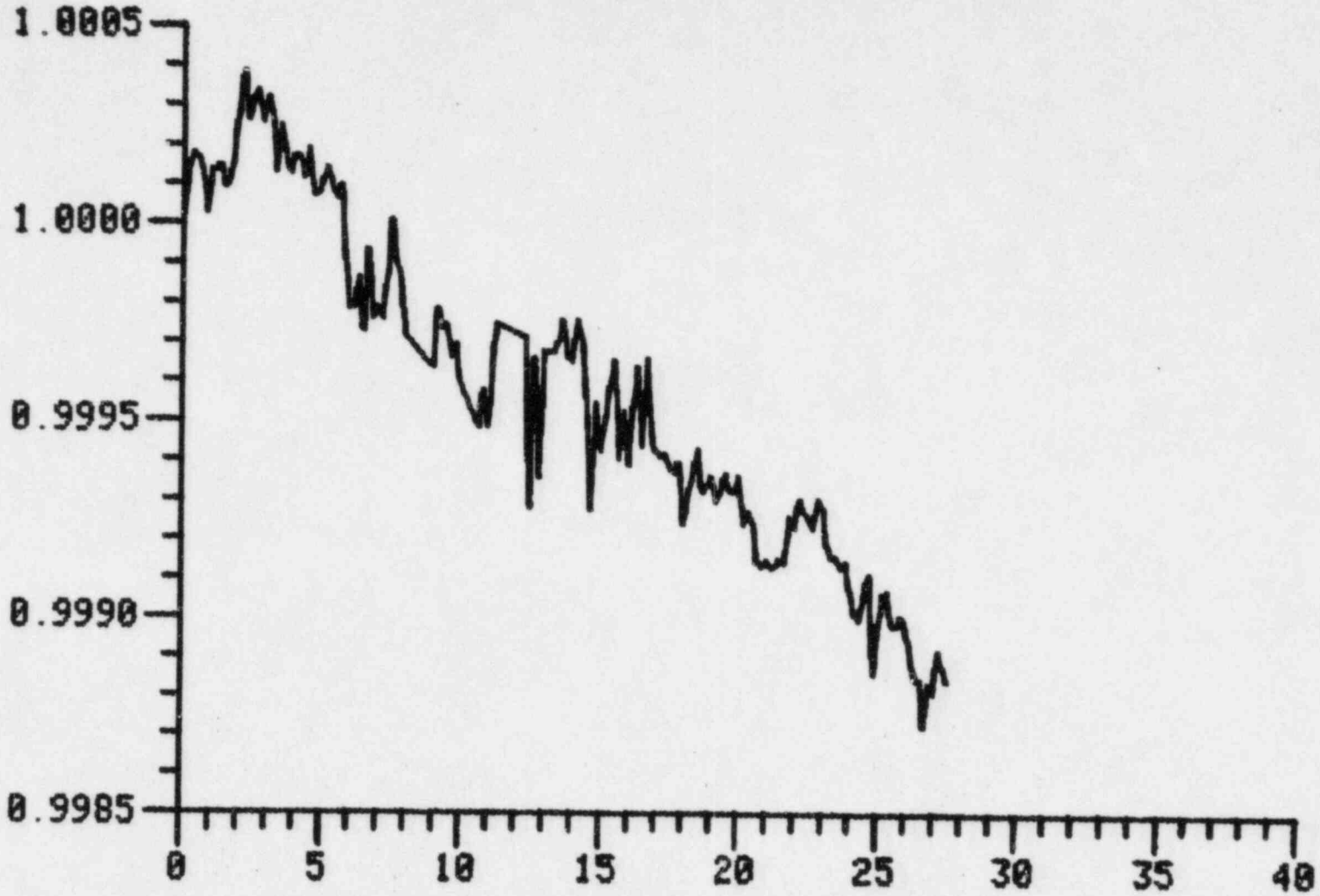
DUKE POWER COMPANY, CATAWBA 2
MASS PLOT ANALYSIS (MIN, OBS, MAX)



85187: 415 THRU 85188: 744
MIN - SOLID LINE
MAX - DASH LINE
OBS - DOT/DASH LINE

1/1

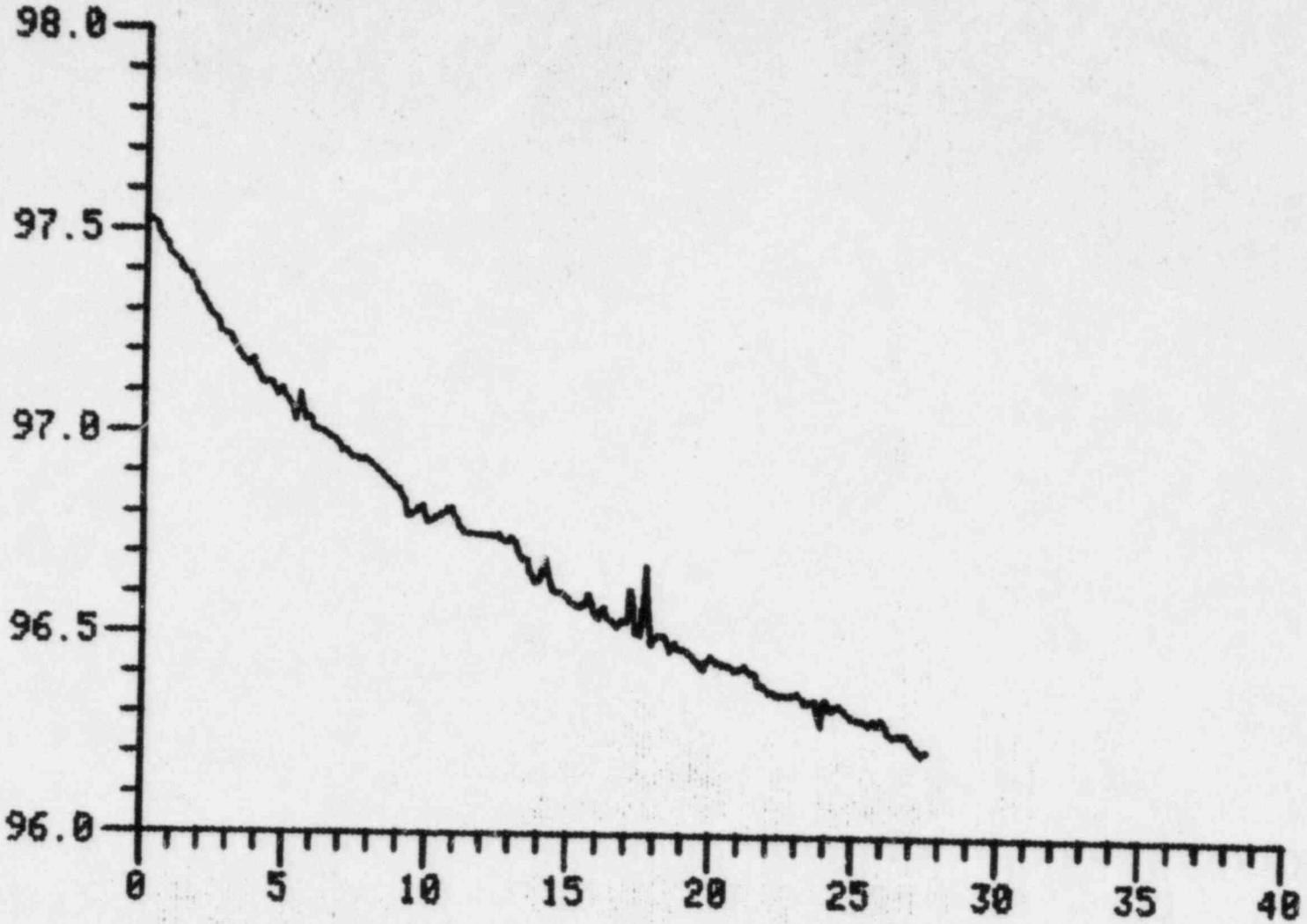
DUKE POWER COMPANY, CATAWBA 2
NORMALIZED AIR MASS



85187: 415 THRU 85188: 744

2/11

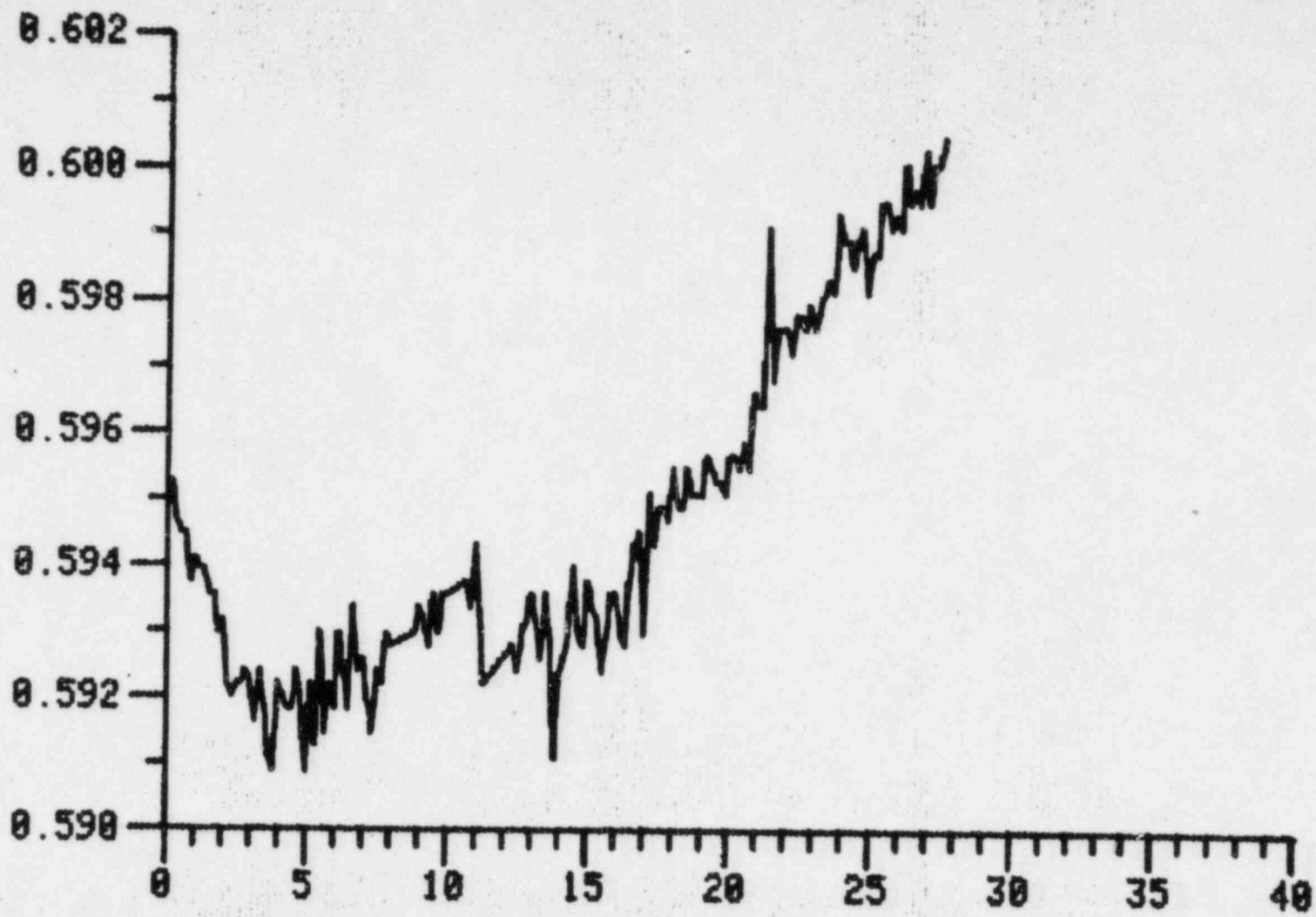
DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT TEMPERATURE



85187: 415 THRU 85188: 744

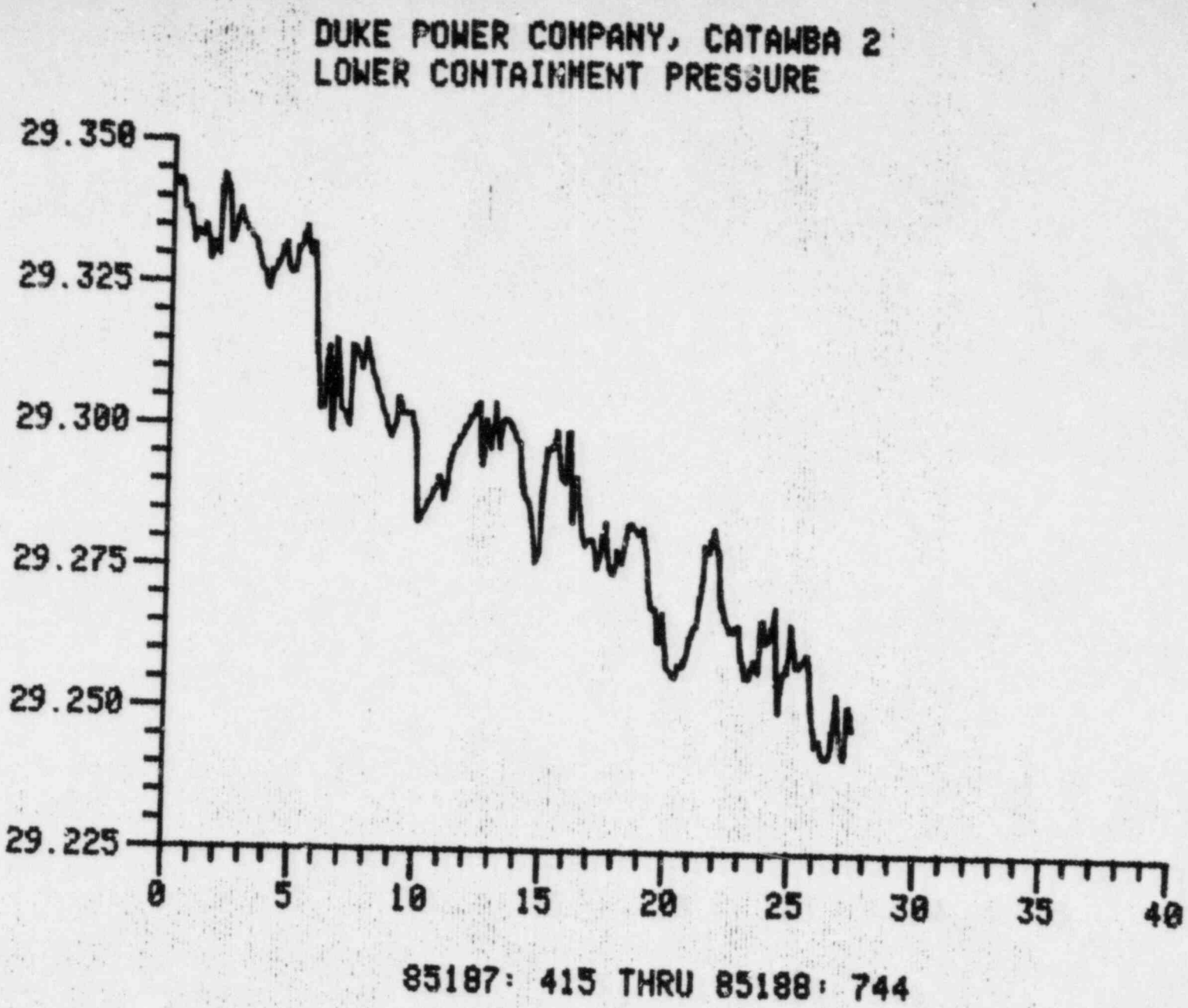
11/3

DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT VAPOR PRESSURE



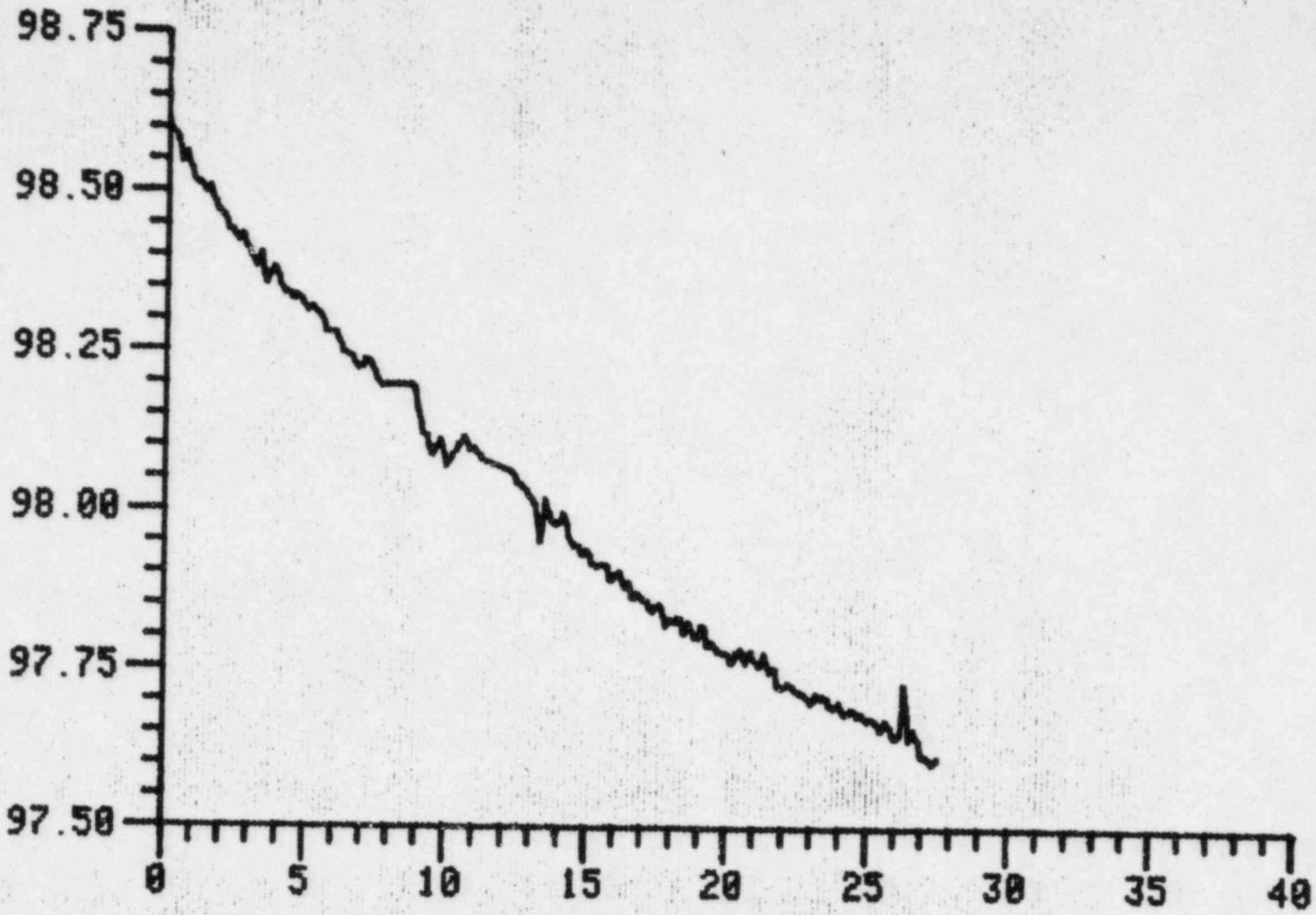
85187: 415 THRU 85188: 744

11/4


DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT PRESSURE
29.350
29.325
29.300
29.275
29.250
29.225
0
5
10
15
20
25
30
35
40
85187: 415 THRU 85188: 744

5/11

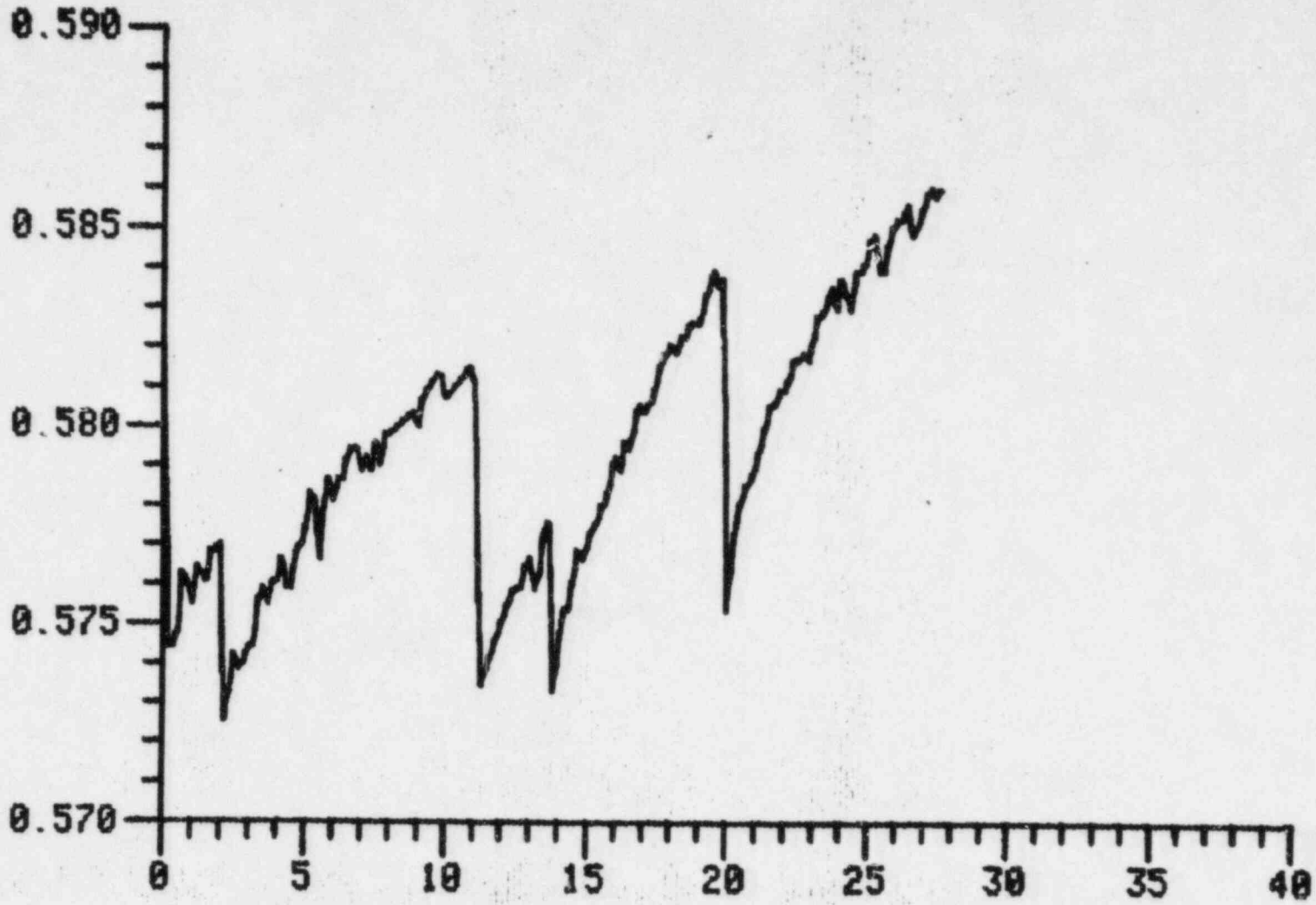
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT TEMPERATURE



85187: 415 THRU 85188: 744

11/9

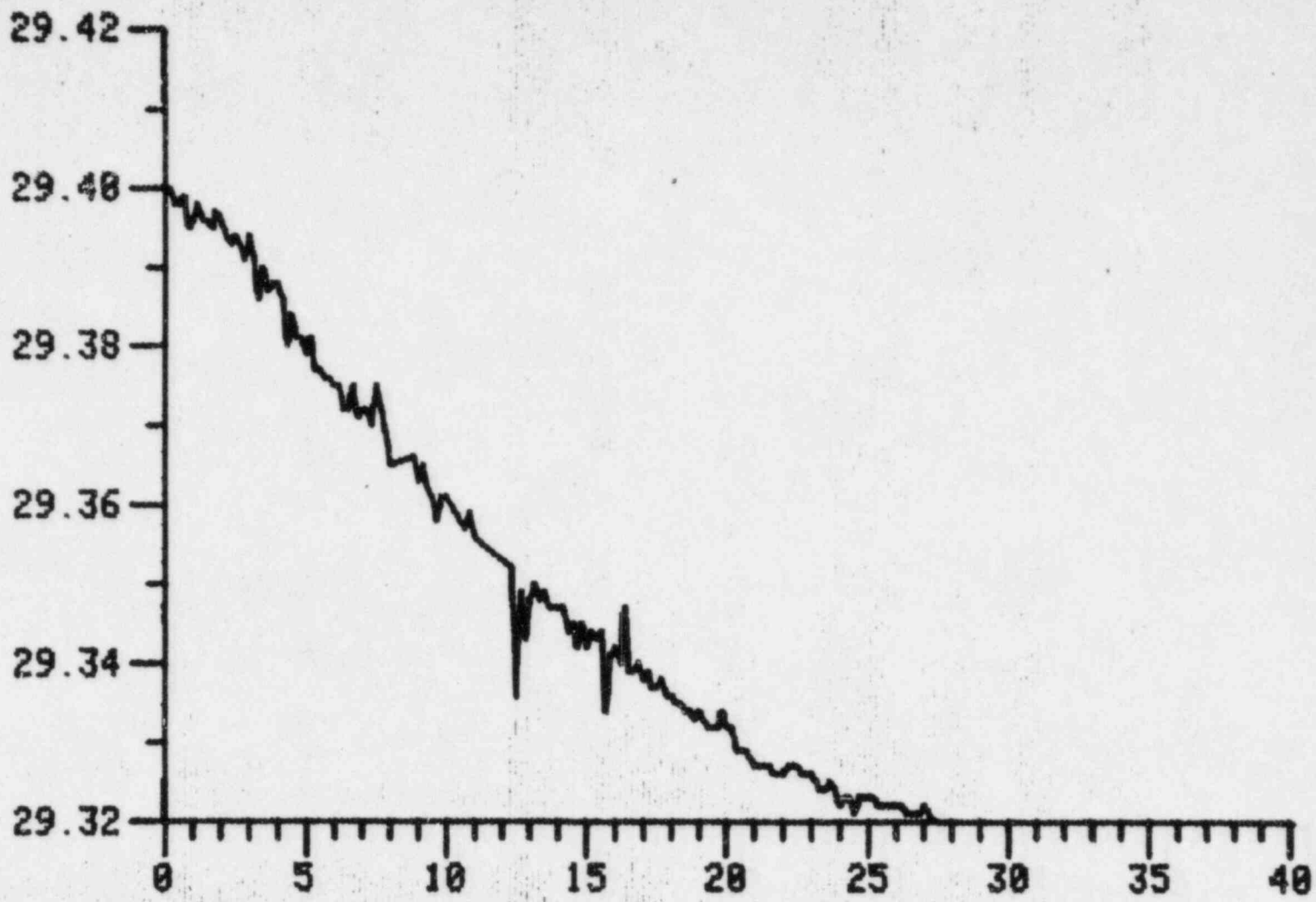
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT VAPOR PRESSURE



85187: 415 THRU 85188: 744

11/2

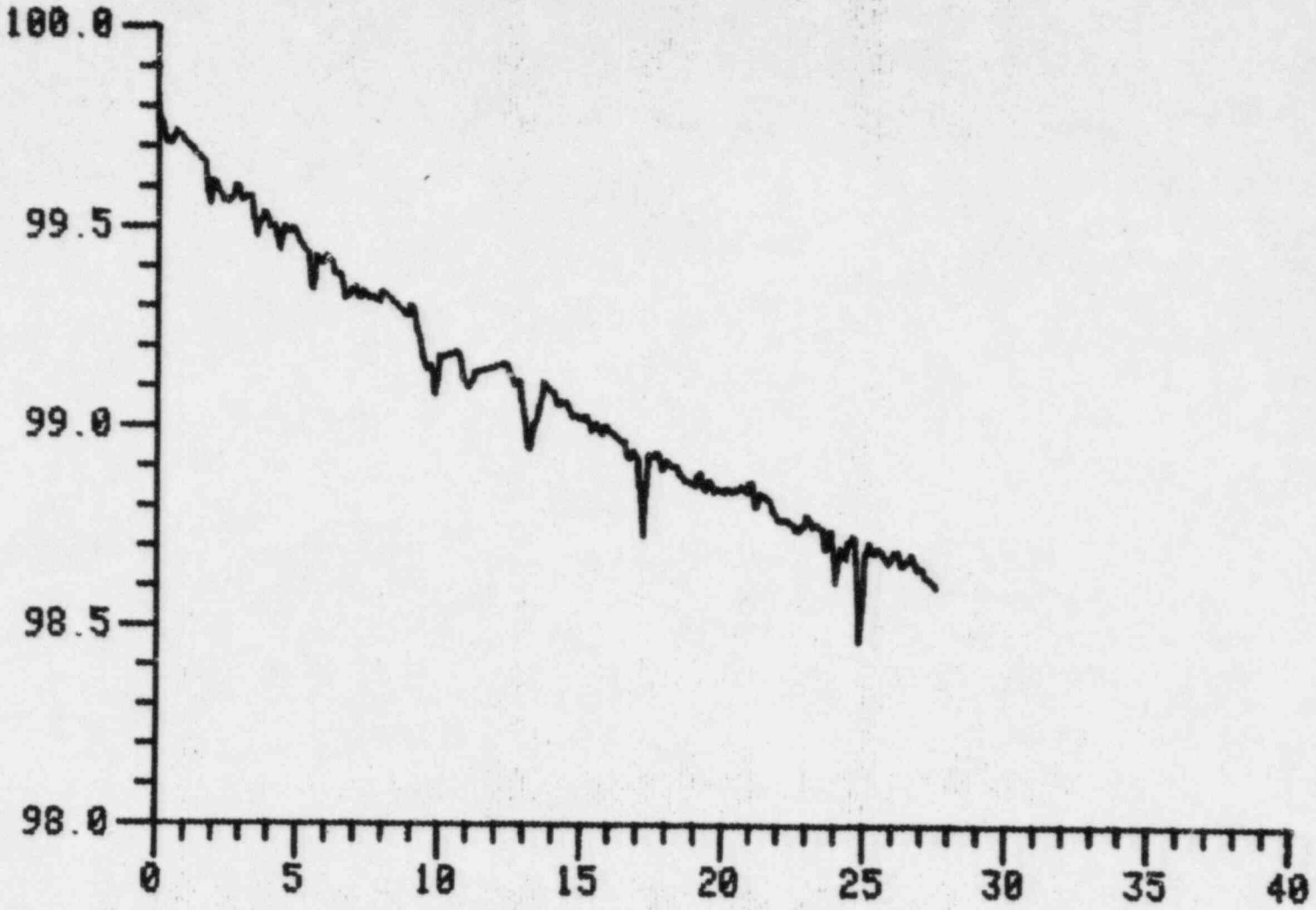
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT PRESSURE



85187: 415 THRU 85188: 744

11/8

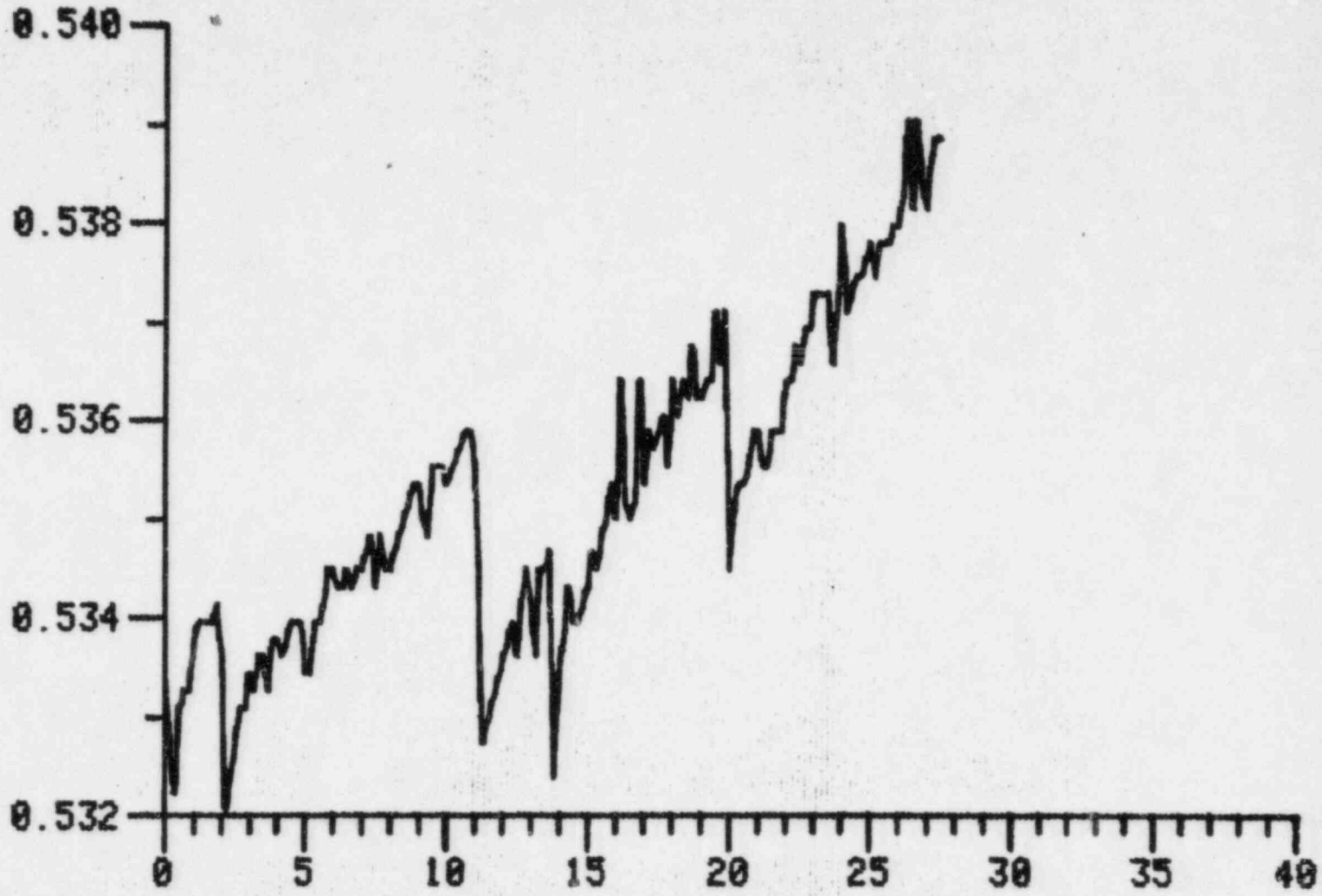
DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER TEMPERATURE



85187: 415 THRU 85188: 744

4/11

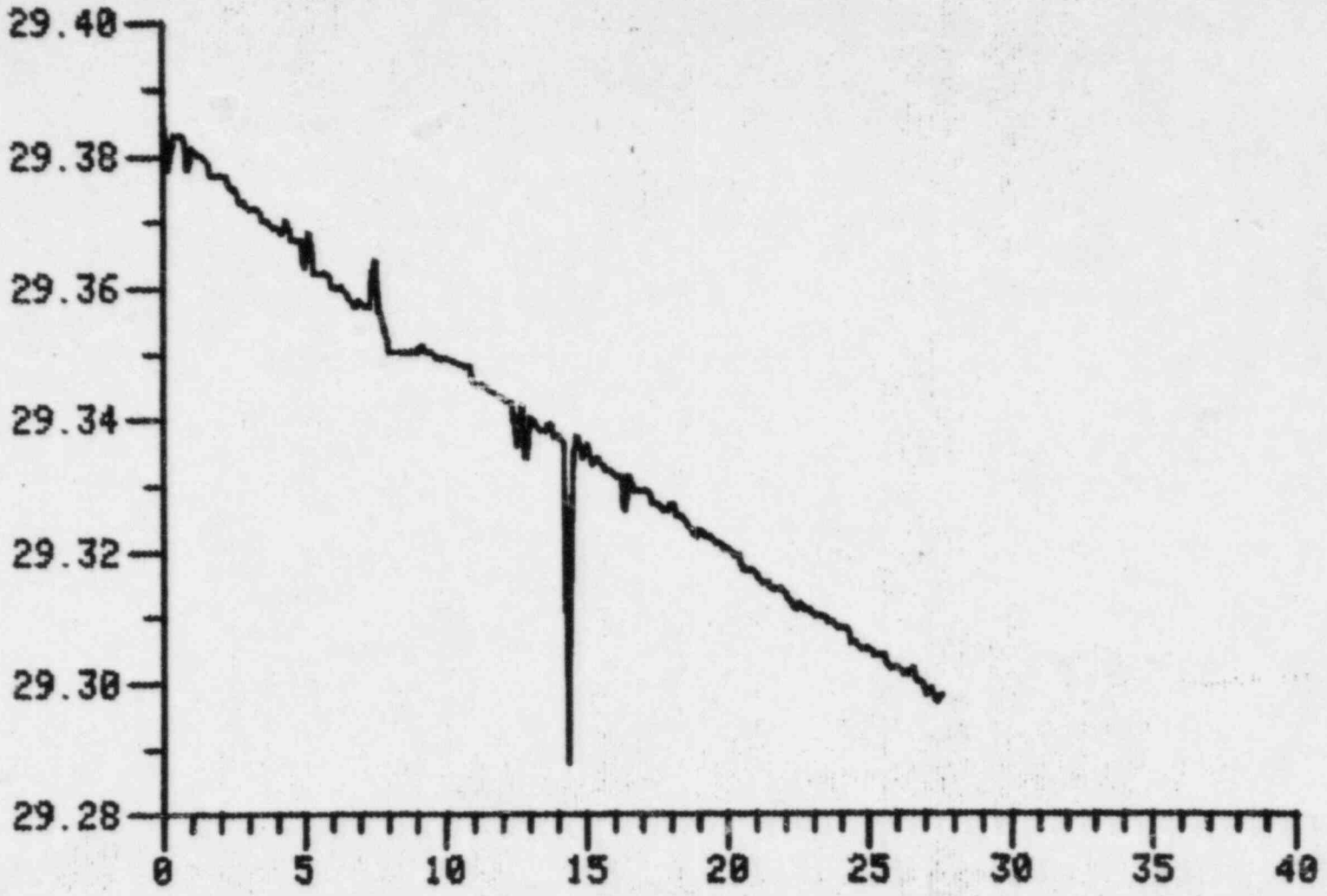
DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER VAPOR PRESSURE



85187: 415 THRU 85188: 744

11/11

DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER PRESSURE



85187: 415 THRU 85188: 744

11/11

FULL PRESSURE VERIFICATION TEST CALIBRATED DATA

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
620 READING AT 851831 735										
BANK 1	86.134	95.140	94.652	94.931	94.377	91.326	91.445	92.135	91.141	99.055
BANK 2	98.912	98.979	99.216	97.856	97.794	91.788	97.981	94.781	95.288	96.202
BANK 3	95.516	95.626	97.141	93.700	96.596	94.552	95.118	97.599	97.769	97.550
BANK 4	97.394	97.437	97.022	97.407	97.548	96.787	96.695	98.647	98.752	98.559
BANK 5	98.847	98.691	98.824	98.759	98.921	98.937	98.969	97.381	97.306	97.341
BANK 6	0.000	97.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.208	29.208	29.174	82.090	84.498	85.438	0.000	0.000	0.000	0.000
621 READING AT 851891 748										
BANK 1	86.134	95.120	94.662	94.941	94.396	91.336	91.445	92.145	91.163	99.055
BANK 2	98.922	98.979	99.216	97.866	97.794	91.788	97.981	94.781	95.288	96.202
BANK 3	95.536	95.636	97.131	93.700	96.606	94.562	95.118	97.599	97.779	97.560
BANK 4	97.403	97.437	97.032	97.407	97.548	96.787	96.695	98.647	98.752	98.559
BANK 5	98.838	98.691	98.814	98.768	98.912	98.937	98.969	97.381	97.316	97.351
BANK 6	0.000	97.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.208	29.207	29.174	82.100	84.490	85.420	0.000	0.000	0.000	0.000
622 READING AT 851891 754										
BANK 1	86.134	95.149	94.668	94.941	94.386	91.336	91.435	92.145	91.183	99.068
BANK 2	98.912	98.979	99.220	97.866	97.804	91.798	97.991	94.791	95.272	96.202
BANK 3	95.526	95.636	97.141	93.700	96.606	94.562	95.118	97.599	97.769	97.560
BANK 4	97.394	97.446	97.022	97.417	97.558	96.787	96.695	98.647	98.752	98.569
BANK 5	98.847	98.681	98.824	98.748	98.912	98.937	98.969	97.381	97.316	97.351
BANK 6	0.000	97.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.208	29.207	29.174	82.100	84.490	85.420	0.000	0.000	0.000	0.000
623 READING AT 851891 805										
BANK 1	86.134	95.149	94.652	94.941	94.386	91.336	91.425	92.145	91.153	99.055
BANK 2	98.912	98.979	99.216	97.866	97.804	91.798	97.991	94.791	95.272	96.202
BANK 3	95.526	95.645	97.141	93.700	96.596	94.552	95.108	97.599	97.779	97.570
BANK 4	97.364	97.456	97.014	97.388	97.548	96.787	96.695	98.647	98.752	98.569
BANK 5	98.847	98.681	98.824	98.738	98.912	98.937	98.969	97.381	97.316	97.351
BANK 6	0.000	97.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.206	29.203	29.174	82.110	84.520	85.430	0.000	0.000	0.000	0.000
624 READING AT 851891 815										
BANK 1	86.134	95.140	94.652	94.941	94.377	91.326	91.445	92.135	91.141	99.055
BANK 2	98.912	98.979	99.216	97.856	97.794	91.788	97.981	94.781	95.288	96.202
BANK 3	95.516	95.626	97.141	93.700	96.596	94.562	95.118	97.599	97.769	97.550
BANK 4	97.403	97.437	97.032	97.407	97.548	96.787	96.715	98.647	98.742	98.559
BANK 5	98.847	98.691	98.824	98.759	98.921	98.937	98.969	97.381	97.306	97.341
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.206	29.205	29.171	82.120	84.520	85.430	0.000	0.000	0.000	0.000
625 READING AT 851891 844										
BANK 1	86.134	95.140	94.652	94.931	94.377	91.326	91.445	92.135	91.141	99.055
BANK 2	98.912	98.969	99.216	97.856	97.794	91.788	97.981	94.781	95.288	96.202
BANK 3	95.516	95.626	97.141	93.700	96.596	94.552	95.118	97.599	97.769	97.550
BANK 4	97.403	97.437	97.032	97.407	97.548	96.787	96.695	98.647	98.752	98.559
BANK 5	98.847	98.691	98.824	98.759	98.921	98.937	98.969	97.381	97.306	97.341
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.205	29.205	29.172	82.130	84.540	85.410	0.000	0.000	0.000	0.000

1/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
626 READING AT 85189 835										
BANK 1	86.124	95.140	94.622	94.901	94.367	91.296	91.297	92.116	91.114	89.036
BANK 2	98.892	98.960	99.208	97.856	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.496	95.606	97.121	93.709	96.586	94.532	95.088	97.650	97.118	97.530
BANK 4	97.423	97.516	97.003	97.388	97.558	96.794	96.885	98.657	98.752	98.682
BANK 5	98.847	98.701	98.843	98.768	98.921	98.947	98.979	97.351	97.296	97.331
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.204	29.204	29.183	82.140	84.580	85.430	0.000	0.000	0.000	0.000
627 READING AT 85189 844										
BANK 1	86.124	95.140	94.642	94.931	94.377	91.316	91.327	92.125	91.134	89.045
BANK 2	98.892	98.969	99.187	97.866	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.516	95.577	97.121	93.709	96.596	94.542	95.138	97.659	97.129	97.540
BANK 4	97.423	97.516	97.003	97.388	97.558	96.794	96.885	98.657	98.752	98.682
BANK 5	98.847	98.701	98.843	98.759	98.921	98.928	98.979	97.361	97.306	97.341
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.204	29.202	29.187	82.140	84.590	85.430	0.000	0.000	0.000	0.000
628 READING AT 85189 855										
BANK 1	86.124	95.140	94.642	94.921	94.387	91.316	91.327	92.125	91.134	89.045
BANK 2	98.892	98.969	99.208	97.866	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.516	95.577	97.121	93.709	96.596	94.542	95.138	97.659	97.129	97.540
BANK 4	97.423	97.516	97.003	97.388	97.558	96.794	96.885	98.657	98.752	98.682
BANK 5	98.847	98.701	98.843	98.759	98.921	98.928	98.979	97.361	97.306	97.341
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.203	29.202	29.187	82.140	84.590	85.430	0.000	0.000	0.000	0.000
629 READING AT 85189 905										
BANK 1	86.124	95.140	94.632	94.911	94.387	91.306	91.307	92.116	91.124	89.036
BANK 2	98.892	98.969	99.208	97.866	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.506	95.577	97.111	93.709	96.586	94.532	95.088	97.650	97.129	97.530
BANK 4	97.394	97.516	97.014	97.388	97.548	96.784	96.885	98.657	98.752	98.672
BANK 5	98.847	98.701	98.843	98.759	98.921	98.937	98.979	97.361	97.306	97.331
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.201	29.203	29.185	82.160	84.600	85.440	0.000	0.000	0.000	0.000
630 READING AT 85189 914										
BANK 1	86.124	95.140	94.622	94.911	94.377	91.306	91.307	92.116	91.124	89.036
BANK 2	98.902	98.950	99.187	97.856	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.496	95.598	97.121	93.709	96.586	94.532	95.088	97.650	97.118	97.530
BANK 4	97.423	97.516	97.014	97.388	97.558	96.794	96.885	98.657	98.752	98.682
BANK 5	98.847	98.701	98.843	98.759	98.921	98.947	98.979	97.361	97.306	97.331
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.203	29.202	29.188	82.160	84.600	85.430	0.000	0.000	0.000	0.000
631 READING AT 85189 928										
BANK 1	86.124	95.140	94.622	94.901	94.367	91.296	91.297	92.116	91.114	89.036
BANK 2	98.892	98.960	99.208	97.856	97.794	94.757	94.951	94.782	95.248	96.262
BANK 3	95.496	95.606	97.121	93.709	96.586	94.532	95.088	97.650	97.129	97.530
BANK 4	97.423	97.516	97.003	97.388	97.558	96.794	96.885	98.657	98.752	98.682
BANK 5	98.847	98.701	98.843	98.768	98.921	98.947	98.979	97.351	97.296	97.331
BANK 6	0.000	97.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.202	29.200	29.186	82.170	84.610	85.450	0.000	0.000	0.000	0.000

2/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
632 READING AT 85189: 934										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.892	98.960	99.197	97.956	97.774	97.757	97.942	94.762	95.248	96.262
BANK 3	95.496	95.498	97.141	93.709	96.576	94.522	95.079	97.619	97.710	97.550
BANK 4	97.403	97.467	97.012	97.397	97.550	96.768	96.685	98.657	98.762	98.687
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.202	29.198	29.188	82.180	84.820	85.470	0.000	0.000	0.000	0.000
633 READING AT 85189: [illegible]										
BANK 1	86.124	95.159	94.632	94.901	94.357	91.296	91.406	92.106	91.094	99.036
BANK 2	98.902	98.960	99.206	97.885	97.784	97.767	97.981	94.752	95.248	96.262
BANK 3	95.496	95.508	97.131	93.709	96.576	94.523	95.059	97.589	97.720	97.521
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.867	98.711	98.843	98.768	98.931	98.928	98.979	97.351	97.287	97.321
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.201	29.200	29.183	82.170	[illegible]	85.470	0.000	0.000	0.000	0.000
634 READING AT 85189: 955										
BANK 1	86.114	95.081	94.622	94.901	94.347	91.286	91.317	92.106	91.094	99.036
BANK 2	98.892	98.950	99.197	97.875	97.794	97.767	97.951	94.752	95.238	96.262
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.443	97.506	97.003	97.338	97.567	96.768	96.685	98.667	98.762	98.687
BANK 5	98.857	98.711	98.843	98.768	98.921	98.937	98.988	97.342	97.287	97.321
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000
635 READING AT 85189:1004										
BANK 1	86.114	[illegible]	94.622	94.901	94.347	91.296	91.228	92.096	91.084	99.026
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.486	95.606	97.131	93.709	96.566	94.503	[illegible]	97.569	[illegible]	97.549
BANK 4	97.423	97.536	96.993	97.278	[illegible]	[illegible]	[illegible]	96.677	[illegible]	[illegible]
BANK 5	98.877	98.721	98.853	98.768	98.931	98.957	98.988	97.342	97.287	97.321
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.199	29.198	29.170	82.170	84.650	85.450	0.000	0.000	0.000	0.000
636 READING AT 85189:1015										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.892	98.950	99.197	97.875	97.784	97.767	97.951	94.742	95.248	[illegible]
BANK 3	95.486	95.527	97.111	93.709	96.566	94.532	95.079	[illegible]	[illegible]	[illegible]
BANK 4	97.413	97.496	97.022	97.397	97.567	96.787	96.685	98.696	98.782	98.707
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.199	29.199	29.186	82.030	84.460	85.380	0.000	0.000	0.000	0.000
637 READING AT 85189:1024										
BANK 1	86.094	95.090	94.612	94.911	94.357	91.393	91.120	92.125	91.114	99.045
BANK 2	98.892	98.960	99.206	97.885	97.784	97.767	97.942	94.782	95.248	96.262
BANK 3	95.486	95.606	97.131	93.719	96.566	94.493	95.059	97.579	97.740	97.530
BANK 4	97.403	97.498	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.857	98.721	98.843	98.778	98.931	98.937	98.988	97.332	97.277	97.311
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.199	29.200	29.172	82.070	84.500	85.390	0.000	0.000	0.000	0.000

3/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
638 READING AT 85189:1035										
BANK 1	98.892	98.940	99.197	97.875	97.794	97.757	97.842	97.732	97.218	96.233
BANK 2	98.892	98.940	99.197	97.875	97.794	97.757	97.842	97.732	97.218	96.233
BANK 3	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 4	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 5	98.661	98.721	98.853	98.768	98.931	98.466	98.949	97.312	97.257	97.292
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.198	29.198	29.182	82.080	84.818	85.448	0.000	0.000	0.000	0.000
639 READING AT 85189:1048										
BANK 1	86.114	95.051	94.612	94.892	94.337	94.543	94.110	93.106	93.108	93.026
BANK 2	98.892	98.940	99.197	97.875	97.794	97.757	97.842	97.732	97.218	96.233
BANK 3	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 4	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 5	98.769	98.721	98.843	98.778	98.921	98.483	98.959	97.332	97.267	97.311
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.197	29.196	29.183	82.100	84.810	85.410	0.000	0.000	0.000	0.000
640 READING AT 85189:1054										
BANK 1	86.104	95.061	94.612	94.901	94.347	94.810	94.107	93.114	93.114	93.026
BANK 2	98.892	98.950	99.202	97.875	97.794	97.757	97.842	97.732	97.218	96.233
BANK 3	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 4	95.476	95.547	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 5	98.622	98.711	98.825	98.788	98.921	98.484	98.949	97.322	97.257	97.302
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.198	29.198	29.182	82.080	84.818	85.448	0.000	0.000	0.000	0.000
641 READING AT 85189:1105										
BANK 1	86.084	95.044	94.622	94.892	94.347	94.701	94.107	93.106	93.106	93.026
BANK 2	98.873	98.930	99.246	97.865	97.784	97.757	97.842	97.732	97.218	96.233
BANK 3	95.476	95.606	97.141	97.719	96.557	94.503	95.069	97.569	97.259	97.521
BANK 4	97.472	97.548	97.045	97.719	96.557	94.503	95.069	97.569	97.259	97.521
BANK 5	98.632	98.711	98.825	98.778	98.921	98.474	98.949	97.322	97.267	97.302
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.197	29.194	29.169	82.110	84.560	85.350	0.000	0.000	0.000	0.000
642 READING AT 85189:1114										
BANK 1	86.084	95.044	94.622	94.892	94.347	94.701	94.107	93.106	93.106	93.026
BANK 2	98.873	98.930	99.246	97.865	97.784	97.757	97.842	97.732	97.218	96.233
BANK 3	95.467	95.606	97.111	97.719	96.566	94.484	95.069	97.578	97.259	97.530
BANK 4	97.463	97.538	97.035	97.719	96.566	94.484	95.069	97.578	97.259	97.530
BANK 5	98.632	98.711	98.825	98.778	98.921	98.474	98.949	97.322	97.267	97.302
BANK 6	0.000	97.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.196	29.196	29.172	82.110	84.560	85.420	0.000	0.000	0.000	0.000
643 READING AT 85189:1125										
BANK 1	86.114	95.041	94.612	94.892	94.337	94.681	94.107	93.106	93.085	93.026
BANK 2	98.873	98.940	99.187	97.865	97.774	97.757	97.842	97.732	97.218	96.233
BANK 3	95.476	95.626	97.131	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 4	97.463	97.538	97.035	97.719	96.576	94.532	95.108	97.578	97.249	97.530
BANK 5	98.661	98.721	98.853	98.768	98.931	98.466	98.949	97.312	97.257	97.292
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.196	29.193	29.171	82.070	84.430	85.350	0.000	0.000	0.000	0.000

21/4

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
644 READING AT 85189 1135										
BANK 1	[illegible]	[illegible]	94.893	[illegible]	[illegible]	91.408	91.100	92.066	91.068	99.006
BANK 2	98.863	98.920	99.187	97.873	97.784	97.767	97.951	94.742	95.228	96.223
BANK 3	95.467	95.626	97.121	93.719	96.547	94.493	95.020	97.550	97.740	97.530
BANK 4	97.433	97.575	97.003	97.329	97.567	96.748	96.676	98.696	98.772	98.717
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.195	29.192	29.180	82.070	84.470	85.380	0.000	0.000	0.000	0.000
645 READING AT 85189 1144										
BANK 1	86.104	95.031	94.593	94.872	94.327	91.395	91.150	92.076	91.055	99.006
BANK 2	98.863	98.930	99.177	97.845	97.802	97.816	97.951	94.762	95.228	96.233
BANK 3	95.476	95.655	97.072	93.720	96.547	94.512	95.110	97.610	97.740	97.540
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.592	98.721	98.843	98.768	98.931	98.476	98.988	97.312	97.257	97.292
BANK 6	0.000	97.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.195	29.190	29.177	82.070	84.500	85.320	0.000	0.000	0.000	0.000
646 READING AT 85189 1155										
BANK 1	86.045	95.051	94.873	94.882	94.318	91.336	91.190	92.076	91.058	99.006
BANK 2	98.863	98.920	99.187	97.856	97.813	97.757	97.912	94.752	95.218	96.223
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.433	97.496	97.032	97.338	97.530	96.740	96.734	98.726	98.792	98.717
BANK 5	98.749	98.730	98.853	[illegible]	[illegible]	[illegible]	[illegible]	97.302	97.247	97.292
BANK 6	0.000	97.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
647 READING AT 85189 1205										
BANK 1	86.084	95.061	94.593	94.862	94.327	91.415	91.180	92.076	91.055	98.996
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.457	95.665	97.102	93.729	96.547	94.503	95.100	[illegible]	[illegible]	[illegible]
BANK 4	97.482	97.595	97.032	97.358	97.567	96.788	[illegible]	97.589	97.789	97.501
BANK 5	98.838	98.740	98.853	98.778	98.961	98.800	98.998	97.302	97.247	97.282
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.191	29.190	29.177	82.100	84.520	85.400	0.000	0.000	0.000	0.000
648 READING AT 85189 1214										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.863	98.920	99.167	97.865	97.784	97.757	97.922	94.762	95.218	96.223
BANK 3	95.457	95.665	97.102	93.729	96.537	94.493	95.090	97.629	97.720	97.491
BANK 4	97.452	97.546	97.052	97.309	97.567	96.772	96.685	98.716	98.703	98.727
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.192	29.190	29.174	82.100	84.560	85.420	0.000	0.000	0.000	0.000
649 READING AT 85189 1228										
BANK 1	86.104	95.041	94.583	94.862	94.318	91.454	91.228	92.076	91.055	98.996
BANK 2	98.863	98.910	99.148	97.875	97.774	97.767	97.932	94.742	95.218	96.184
BANK 3	95.457	95.626	97.102	93.700	96.537	94.493	95.059	97.638	97.820	97.481
BANK 4	97.433	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.632	98.721	98.833	98.759	98.931	98.633	98.939	97.292	97.238	97.272
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.192	29.180	29.164	82.120	84.570	85.420	0.000	0.000	0.000	0.000

5/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
650 READING AT 05189:1235										
BANK 1	[illegible]	[illegible]	94.873	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	91.048	[illegible]
BANK 2	98.853	98.910	99.167	97.885	97.803	97.767	97.922	94.742	95.208	96.243
BANK 3	95.467	95.635	97.121	93.709	96.537	94.493	95.088	97.589	97.759	97.472
BANK 4	97.443	97.516	97.042	97.348	97.528	96.728	96.685	98.716	98.782	98.717
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.192	29.187	29.183	82.130	84.590	85.400	0.000	0.000	0.000	0.000
651 READING AT 05189:1244										
BANK 1	86.065	95.051	94.573	94.852	94.327	91.662	91.278	92.086	91.045	98.996
BANK 2	98.853	98.910	99.167	97.868	97.785	97.787	97.922	94.752	95.218	96.213
BANK 3	95.467	95.635	97.111	93.729	96.527	94.493	95.088	97.610	[illegible]	[illegible]
BANK 4	97.482	97.477	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.759	98.730	98.853	98.768	98.931	98.612	98.878	97.282	97.238	97.282
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.189	29.187	29.164	82.130	84.800	85.390	0.000	0.000	0.000	0.000
652 READING AT 05189:1255										
BANK 1	86.104	95.022	94.873	[illegible]	[illegible]	[illegible]	[illegible]	92.086	91.048	[illegible]
BANK 2	98.853	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.472	97.526	97.022	[illegible]	[illegible]	96.777	96.676	[illegible]	[illegible]	[illegible]
BANK 5	98.759	98.721	98.843	[illegible]	[illegible]	[illegible]	[illegible]	97.283	97.238	97.282
BANK 6	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.190	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
653 READING AT 05189:1304										
BANK 1	86.073	95.061	94.583	94.862	94.318	91.681	91.287	92.086	[illegible]	[illegible]
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.457	95.527	97.121	93.729	96.527	94.493	95.079	97.599	97.749	97.550
BANK 4	97.462	97.506	97.033	[illegible]	[illegible]	[illegible]	[illegible]	98.726	[illegible]	98.738
BANK 5	98.730	98.730	[illegible]	98.768	98.941	[illegible]	98.929	97.282	97.238	97.232
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.190	29.185	29.171	82.140	84.630	85.420	0.000	0.000	0.000	0.000
654 READING AT 05189:1314										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.853	98.910	99.157	97.865	97.774	97.757	97.932	94.752	95.218	96.203
BANK 3	95.447	95.604	97.111	93.729	96.517	94.503	95.089	97.609	97.661	97.590
BANK 4	97.433	97.506	97.012	97.338	97.577	96.758	96.605	98.746	98.792	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.187	29.185	29.173	82.150	84.620	85.440	0.000	0.000	0.000	0.000
655 READING AT 05189:1325										
BANK 1	86.094	95.061	94.583	94.842	94.318	91.543	91.238	92.076	91.026	98.987
BANK 2	98.843	98.910	99.167	97.875	97.774	97.757	97.932	94.763	95.218	96.203
BANK 3	95.447	95.645	97.121	93.729	96.517	94.503	95.088	97.619	97.749	97.501
BANK 4	97.452	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.789	98.740	98.863	98.778	98.951	98.761	98.998	97.292	97.238	97.272
BANK 6	0.000	97.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.189	29.185	29.169	82.150	84.680	85.430	0.000	0.000	0.000	0.000

6/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
656 READING AT 85189:1334										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	99.833	98.910	99.167	97.865	97.754	97.757	97.912	94.762	95.218	96.203
BANK 3	95.447	95.635	97.111	93.739	96.527	94.483	95.089	97.619	97.779	97.452
BANK 4	97.482	97.487	97.012	97.358	97.528	96.777	96.676	98.726	98.792	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.188	29.183	29.172	82.150	84.890	85.430	0.000	0.000	0.000	0.000
657 READING AT 85189:1348										
BANK 1	86.105	95.041	94.573	94.842	94.308	91.622	91.287	92.086	91.016	98.987
BANK 2	98.833	98.891	99.167	97.856	97.774	97.787	97.912	94.762	95.198	96.194
BANK 3	95.447	95.665	97.121	93.729	96.527	94.503	95.118	97.619	97.720	97.452
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.602	98.721	98.843	98.759	98.921	96.068	98.900	97.273	97.218	97.262
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.186	29.182	29.168	82.160	84.880	85.430	0.000	0.000	0.000	0.000
658 READING AT 85189:1355										
BANK 1	86.065	95.031	94.573	94.872	94.308	91.781	91.237	92.066	91.016	99.016
BANK 2	98.863	98.920	99.157	97.836	97.784	97.747	97.902	94.772	95.218	96.194
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.462	97.487	97.032	97.319	97.538	96.807	96.666	98.726	98.792	98.736
BANK 5	98.612	98.711	98.843	98.789	98.931	98.889	[illegible]	97.273	97.218	97.253
BANK 6	0.000	97.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
659 READING AT 85189:1404										
BANK 1	86.094	95.031	94.573	94.842	94.327	91.632	91.317	92.066	91.016	98.977
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.447	95.733	97.102	93.739	96.527	94.503	95.089	97.619	97.779	97.511
BANK 4	97.423	97.477	97.032	97.348	97.538	96.788	[illegible]	98.726	98.792	98.737
BANK 5	98.671	98.730	98.853	98.768	98.931	97.257	98.959	97.273	97.218	97.253
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.186	29.181	29.168	82.170	84.720	85.450	0.000	0.000	0.000	0.000
660 READING AT 85189:1415										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.823	98.891	99.108	97.836	97.764	97.727	97.902	94.762	95.198	96.194
BANK 3	95.427	95.724	97.111	93.729	96.507	94.483	95.049	97.589	97.749	97.481
BANK 4	97.452	97.555	97.003	97.338	97.538	96.768	96.656	98.726	98.782	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.183	29.180	29.159	82.180	84.730	85.420	0.000	0.000	0.000	0.000
661 READING AT 85189:1428										
BANK 1	86.055	95.041	94.583	94.842	94.308	92.096	91.553	92.086	91.016	98.977
BANK 2	98.823	98.851	99.138	97.856	97.774	97.737	97.902	94.762	95.208	96.194
BANK 3	95.437	95.665	97.092	93.739	96.517	94.513	95.079	97.628	97.730	97.521
BANK 4	97.462	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.622	98.730	98.853	98.768	98.941	98.888	98.998	97.263	97.218	97.243
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.186	29.178	29.158	82.170	84.730	85.470	0.000	0.000	0.000	0.000

7/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
662 READING AT 85189:1434										
BANK 1	[illegible]	[illegible]	94.892	[illegible]	94.318	[illegible]	[illegible]	[illegible]	91.016	[illegible]
BANK 2	98.833	98.891	99.167	97.856	97.774	97.708	97.912	94.781	95.218	96.194
BANK 3	95.447	95.675	97.111	93.749	96.817	94.523	95.059	97.638	97.789	97.530
BANK 4	97.462	97.467	97.032	97.338	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.543	98.740	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.184	29.179	29.154	82.180	84.780	85.480	0.000	0.000	0.000	0.000
663 READING AT 85189:1444										
BANK 1	86.065	95.061	94.593	94.842	94.318	92.017	91.553	92.086	91.016	98.977
BANK 2	98.833	98.891	99.157	97.856	97.774	97.787	97.912	94.781	95.218	96.203
BANK 3	95.447	95.714	97.121	93.739	96.507	94.532	95.039	97.650	97.730	97.521
BANK 4	97.433	97.477	97.003	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.485	98.730	98.863	98.778	98.951	97.228	[illegible]	97.263	97.208	97.243
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.183	29.179	29.155	82.200	84.790	85.450	0.000	0.000	0.000	0.000
664 READING AT 85189:1455										
BANK 1	86.074	95.022	94.863	94.833	94.290	91.237	91.189	92.087	90.987	98.957
BANK 2	98.823	98.881	99.118	97.846	97.764	97.717	97.902	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.413	97.447	96.973	97.329	97.510	96.729	96.660	96.735	98.792	98.736
BANK 5	98.916	98.760	98.873	[illegible]	[illegible]	[illegible]	[illegible]	97.263	97.218	97.243
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
665 READING AT 85189:1504										
BANK 1	86.065	95.022	96.573	94.823	94.280	91.247	91.200	92.057	90.957	[illegible]
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.437	95.684	97.111	93.739	96.497	94.513	95.098	97.589	97.730	97.501
BANK 4	97.433	97.467	[illegible]	97.309	97.926	96.748	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.902	98.760	98.882	98.788	98.951	98.967	99.008	97.263	97.208	97.233
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.183	29.176	29.156	82.210	84.780	85.460	0.000	0.000	0.000	0.000
666 READING AT 85189:1514										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.813	98.881	99.128	97.856	97.774	97.737	97.893	94.791	95.188	96.184
BANK 3	95.457	95.694	97.092	93.719	96.488	94.503	95.059	97.609	97.720	97.801
BANK 4	97.433	97.477	96.973	97.319	97.528	96.709	96.676	98.736	98.802	98.736
BANK 5	98.877	98.780	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.182	29.175	29.155	82.210	84.780	85.460	0.000	0.000	0.000	0.000
667 READING AT 85189:1524										
BANK 1	85.996	94.982	94.563	94.823	94.290	91.356	91.228	92.096	90.986	98.928
BANK 2	98.813	98.871	99.138	97.846	97.764	97.737	97.902	94.781	95.198	96.174
BANK 3	95.437	95.733	97.102	93.739	96.497	94.493	95.059	97.609	97.790	97.521
BANK 4	97.443	97.467	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.867	98.760	98.873	98.778	98.941	98.869	99.008	97.253	97.208	97.233
BANK 6	0.000	97.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.181	29.176	29.153	82.220	84.780	85.180	0.000	0.000	0.000	0.000

8/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
668 READING AT 85189:1534										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	90.987	[illegible]
BANK 2	98.804	98.881	99.106	97.856	97.764	97.737	97.853	94.772	95.208	96.174
BANK 3	95.427	95.724	97.111	93.739	96.488	94.513	95.059	97.589	97.740	97.560
BANK 4	97.452	97.467	97.003	97.299	97.528	96.758	96.666	98.736	98.782	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.180	29.175	29.155	82.210	84.810	85.430	0.000	0.000	0.000	0.000
669 READING AT 85189:1544										
BANK 1	86.084	95.022	94.583	94.832	94.318	91.959	91.406	92.066	90.957	90.065
BANK 2	98.823	98.881	99.157	[illegible]	[illegible]	[illegible]	[illegible]	94.791	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	97.102	[illegible]	96.507	94.513	95.079	97.610	[illegible]	[illegible]
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.749	98.730	98.853	98.768	98.941	98.535	98.979	97.243	97.198	97.223
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.170	[illegible]	29.156	82.110	[illegible]	[illegible]	0.000	0.000	0.000	0.000
670 READING AT 85189:1555										
BANK 1	86.084	95.002	94.873	[illegible]	[illegible]	[illegible]	91.376	92.074	90.957	90.987
BANK 2	98.813	[illegible]	99.128	97.856	97.764	[illegible]	97.902	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.443	97.506	97.071	97.309	97.539	96.679	96.666	98.755	98.811	98.736
BANK 5	98.749	98.740	98.863	98.778	98.941	[illegible]	98.979	97.243	97.198	97.223
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
671 READING AT 85189:1604										
BANK 1	[illegible]	[illegible]	94.573	94.813	94.298	91.622	91.396	92.057	90.957	90.957
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.437	95.684	97.102	93.769	96.438	[illegible]	95.079	97.590	97.700	97.362
BANK 4	97.452	97.526	96.993	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.563	98.730	98.873	98.770	98.941	[illegible]	98.988	[illegible]	97.188	97.223
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.179	29.173	29.156	82.160	84.520	85.440	0.000	0.000	0.000	0.000
672 READING AT 85189:1614										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.794	98.851	99.146	[illegible]	97.745	[illegible]	[illegible]	94.791	95.208	96.184
BANK 3	95.427	[illegible]	97.072	93.749	96.488	[illegible]	[illegible]	[illegible]	97.730	97.491
BANK 4	97.472	97.467	96.993	97.289	97.540	[illegible]	96.636	96.755	98.802	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	96.964	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.177	29.173	29.154	82.160	84.520	85.420	0.000	0.000	0.000	0.000
673 READING AT 85189:1625										
BANK 1	86.065	95.041	94.544	94.813	94.298	91.435	91.278	92.057	90.976	90.967
BANK 2	98.794	98.861	99.118	97.826	97.745	[illegible]	[illegible]	94.772	95.198	96.184
BANK 3	95.427	95.675	[illegible]	93.739	96.468	94.513	95.108	[illegible]	97.720	97.481
BANK 4	97.462	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.828	98.760	98.882	98.788	98.961	98.721	98.988	97.243	97.188	97.213
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.178	29.172	29.153	82.170	84.530	85.410	0.000	0.000	0.000	0.000

9/12

LEAK RATE INSTRUMENT CALIBRATED DATA

674 READING AT 85189:1634

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.035	94.022	94.872	94.813	94.298	91.848	91.287	92.066	90.917	98.997
BANK 2	98.794	98.851	99.118	97.836	97.751	97.698	97.893	94.762	95.198	95.164
BANK 3	95.427	95.724	97.102	93.739	96.478	94.513	95.038	97.609	97.710	97.472
BANK 4	97.423	97.520	96.983	97.295	97.540	96.710	96.636	96.716	96.811	96.736
BANK 5	[illegible]	96.760	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.177	29.169	29.152	82.170	84.540	85.490	0.000	0.000	0.000	0.000

675 READING AT 85189:1648

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	85.986	94.972	94.544	94.803	94.308	91.405	91.287	92.066	90.937	98.957
BANK 2	98.784	98.851	99.108	97.836	97.792	97.698	97.863	94.781	95.186	96.164
BANK 3	95.427	95.673	97.092	93.749	96.478	94.503	95.039	97.629	97.720	97.452
BANK 4	97.433	97.468	96.973	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.877	98.770	98.892	98.788	98.961	98.898	98.008	97.234	97.188	97.213
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.176	29.171	29.150	82.190	84.550	85.410	0.000	0.000	0.000	0.000

676 READING AT 85189:1655

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.035	94.972	94.563	94.813	94.298	91.277	91.288	92.087	90.917	98.947
BANK 2	98.794	98.861	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.433	97.477	96.983	97.289	97.529	96.709	96.646	98.716	98.792	98.736
BANK 5	98.877	96.760	98.882	98.788	98.961	98.918	[illegible]	97.234	97.179	97.213
BANK 6	0.000	97.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.000	0.000	0.000	0.000

677 READING AT 85189:1704

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.025	95.012	94.563	94.813	94.298	91.286	91.308	92.057	90.917	98.947
BANK 2	98.794	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.417	95.724	97.082	93.749	96.478	92.513	95.019	97.510	97.691	97.511
BANK 4	97.423	97.467	96.993	[illegible]	[illegible]	92.718	[illegible]	96.758	96.798	96.736
BANK 5	98.877	98.760	98.882	98.788	98.651	98.918	99.008	97.233	97.179	97.203
BANK 6	0.000	[illegible]	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.176	29.170	29.149	82.200	84.570	85.440	0.000	0.000	0.000	0.000

678 READING AT 85189:1715

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.794	98.842	99.108	97.836	97.745	97.709	97.873	94.791	95.198	96.154
BANK 3	95.417	95.733	97.082	93.749	96.468	94.493	96.079	97.640	97.740	97.481
BANK 4	97.433	97.496	96.963	97.299	97.520	96.728	96.656	98.716	98.802	98.756
BANK 5	98.867	98.760	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.175	29.168	29.150	82.110	84.460	85.370	0.000	0.000	0.000	0.000

679 READING AT 85189:1728

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	86.025	94.982	94.563	94.803	94.288	91.306	91.248	92.057	90.917	98.947
BANK 2	98.784	98.851	99.118	97.836	97.735	97.708	97.873	94.781	95.188	96.154
BANK 3	95.417	95.733	97.082	93.759	96.468	94.523	95.059	97.609	97.779	97.501
BANK 4	97.472	97.487	96.973	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.867	98.760	98.882	98.788	98.951	98.898	98.998	97.224	97.179	97.203
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.174	29.160	29.151	82.140	84.490	85.430	0.000	0.000	0.000	0.000

10/12

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
600 READING AT 05189:1736										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.784	98.851	99.089	97.836	97.735	97.718	97.873	94.791	95.218	96.154
BANK 3	95.427	95.841	97.102	93.789	96.468	94.493	94.078	97.619	97.749	97.472
BANK 4	97.492	97.526	96.973	97.289	97.518	96.759	96.607	98.746	98.821	98.736
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	97.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.173	29.166	29.151	82.150	84.490	85.420	0.000	0.000	0.000	0.000
601 READING AT [illegible]										
BANK 1	86.045	95.012	94.563	94.803	94.298	91.425	91.287	92.057	90.917	98.937
BANK 2	98.784	98.851	99.099	97.816	97.738	97.698	97.883	94.781	95.180	96.154
BANK 3	95.417	95.763	97.111	93.759	96.468	94.527	95.088	97.589	97.691	97.481
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.828	98.760	98.882	98.788	98.961	98.721	98.988	97.214	97.169	97.194
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.171	29.167	29.148	82.170	84.520	85.450	0.000	0.000	0.000	0.000
602 READING AT 05189:1755										
BANK 1	86.015	95.002	94.563	94.803	94.298	91.428	91.287	92.057	90.917	98.937
BANK 2	98.784	[illegible]	99.099	[illegible]	97.745	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 4	97.433	97.506	96.963	97.329	97.520	96.718	96.636	98.755	98.802	98.746
BANK 5	98.838	98.780	98.882	[illegible]	[illegible]	[illegible]	[illegible]	97.214	97.169	97.203
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
603 READING AT 05189:1804										
BANK 1	86.025	95.041	94.563	94.793	94.288	91.404	91.347	92.057	90.927	98.928
BANK 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 3	95.408	95.732	97.092	93.759	96.507	94.512	95.098	97.589	97.798	97.491
BANK 4	97.423	97.496	96.973	97.309	97.499	96.718	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.622	98.730	98.863	98.788	98.951	98.839	98.988	97.214	97.169	97.194
BANK 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 7	29.172	29.172	29.145	82.180	84.520	85.430	0.000	0.000	0.000	0.000
604 READING AT 05189:1815										
BANK 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.794	98.842	99.118	97.926	97.745	97.708	97.873	94.772	95.178	96.145
BANK 3	95.417	95.704	97.092	93.749	96.468	94.532	95.039	97.609	97.700	97.472
BANK 4	97.413	97.428	96.973	97.289	97.508	96.699	96.627	98.746	98.792	98.736
BANK 5	98.847	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.171	29.167	29.151	82.200	84.560	85.420	0.000	0.000	0.000	0.000
605 READING AT [illegible]										
BANK 1	85.996	95.012	94.553	94.793	94.288	91.593	91.347	92.066	90.917	98.957
BANK 2	98.774	98.851	99.089	97.946	97.715	97.698	97.863	94.781	95.180	96.164
BANK 3	95.408	95.684	97.102	93.759	96.458	94.523	95.039	97.569	97.671	97.472
BANK 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 5	98.800	98.750	98.873	98.788	98.961	98.535	98.988	97.204	97.159	97.184
BANK 6	0.000	97.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.171	29.164	29.151	82.200	84.570	85.410	0.000	0.000	0.000	0.000

11/12

LEAK RATE INSTRUMENT CALIBRATED DATA

686 READING AT 05189:1034

POINTS:	1	2	3	4	5	6	7	8	9	10
BANK 1	[illegible]	[illegible]	94.583	[illegible]	94.878	91.464	[illegible]	[illegible]	[illegible]	[illegible]
BANK 2	98.774	98.832	99.099	97.816	97.725	97.688	97.863	94.791	95.178	96.145
BANK 3	95.408	95.763	97.092	93.759	96.458	94.532	95.049	97.578	97.691	97.472
BANK 4	97.384	97.477	96.973	97.299	97.538	96.758	96.636	98.765	98.792	98.746
BANK 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BANK 6	0.000	96.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.169	29.163	29.145	82.190	84.560	85.420	0.000	0.000	0.000	0.000

12/12

FULL PRESSURE VERIFICATION TEST RESULTS

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

RDG NO	TIME DAY:HR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
[illegible]	85189: 735	0.0000000	0.0000000	0.0000000
621	85189: 745	0.0000000	0.0000000	0.0000000
622	85189: 754	0.0000000	-0.1695421	0.0000000
623	85189: 805	-1.6903915	0.1100686	1.9105286
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
625	85189: 824	-0.6163463	0.3241342	1.2646147
626	85189: 835	-0.1767037	0.3577640	0.8922317
627	85189: 844	-0.0108206	0.3423713	0.6955712
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
629	85189: 905	-0.0870657	0.1546544	0.3963745
630	85189: 914	-0.0161741	0.2319808	0.4477869
631	85189: 925	-0.0018771	0.1821913	0.3662596
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
633	85189: 945	-0.0061722	0.1296188	0.2654098
634	85189: 955	0.0275729	0.1439288	0.2602847
635	85189:1004	0.0523863	0.1531671	0.2530379
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
637	85189:1024	0.1074250	0.2032262	0.2990275
638	85189:1035	0.0620275	0.1614916	0.2601554
639	85189:1045	0.0711634	0.1589863	0.2468092
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
641	85189:1105	0.0961437	0.1723287	0.2485138
642	85189:1114	0.1174597	0.1896326	0.2619054
643	85189:1125	0.1357417	0.2034363	0.2711280
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
645	85189:1144	0.1497466	0.2065931	0.2634395
646	85189:1155	0.1469635	0.1998891	0.2528146
647	85189:1205	0.1515622	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
649	85189:1225	0.1589364	0.2014876	0.2440389
650	85189:1235	0.1670054	0.2072118	0.2474182
651	85189:1244	0.1798257	0.2206203	0.2614149
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
653	85189:1304	0.2038091	0.2444852	0.2851612
654	85189:1314	0.2134510	0.2529896	0.2925282
655	85189:1325	0.2192140	0.2566907	0.2941673
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
657	85189:1345	0.2291770	0.2630123	0.2968476
658	85189:1355	0.2338980	0.2661180	0.2983381
659	85189:1404	0.2381371	0.2688504	0.2995636
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
661	85189:1425	0.2382836	0.2670245	0.2957653
662	85189:1434	0.2466243	0.2758743	0.3051243
663	85189:1444	0.2554197	0.2854591	0.3154984
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
665	85189:1504	0.2698010	0.2993578	0.3289147
666	85189:1514	0.2758170	0.3047699	0.3337229
667	85189:1524	0.2814185	0.3097179	0.3380172
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
669	85189:1544	0.2915008	0.3184169	0.3453329
670	85189:1555	0.2953884	0.3214460	0.3475036
671	85189:1604	0.2943989	0.3195234	0.3446479
[illegible]	85189:1614	0.2928183	[illegible]	0.3414336
673	85189:1625	0.2920664	0.3155151	0.3389639

1/10

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

RDG NO	TIME DAY:HR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
674	85189:1634	0.2915838	0.3141867	0.3368097
675	85189:1645	0.2912876	0.3131103	0.3349331
676	85189:1655	0.2924636	0.3135007	0.3345377
677	85189:1704	0.2928598	0.3131548	0.3334499
678	85189:1715	0.2924748	0.3120978	0.3317203
679	85189:1725	0.2923502	0.3113204	0.3302906
680	85189:1734	0.2913053	0.3097293	0.3281532
681	85189:1745	0.2903416	0.3082363	0.3261310
682	85189:1755	[illegible]	[illegible]	[illegible]
683	85189:1804	0.2904079	0.3071854	0.3239629
684	85189:1815	0.2904683	0.3067239	0.3229795
685	85189:1825	0.2877813	[illegible]	[illegible]
686	85189:1834	[illegible]	[illegible]	[illegible]

2/10

LEAK RATE ANALYSIS

0.3018%/DAY LEAKAGE OBSERVED AFTER686 READINGS

LEAK RATE "BANDWIDTH": MIN IS 0.2703; MAX IS 0.3703

RDG	TIME	NORM WGT	EXP WGT	DEV/LEAK	OBS LEAK RATE	LEAK RATE LIMIT VIOL.
620	85189: 735	1.000000	1.000123	[illegible]	0.0000000	
621	85189: 745	1.000008	1.000102	44.76	0.0020000	
622	85189: 754	1.000019	1.000083	30.66	-0.1895421	
623	85189: 805	0.999994	1.000060	31.57	0.1100686	
624	85189: 815	[illegible]	1.000039	[illegible]	[illegible]	
625	85189: 824	0.999878	1.000020	67.85	0.3241342	
626	85189: 835	0.999905	0.999997	43.82	0.3577640	
627	85189: 844	0.999200	0.999978	37.23	0.3423713	
628	85189: 855	[illegible]	[illegible]	[illegible]	[illegible]	
629	85189: 905	0.999968	0.999934	-15.95	0.1546544	
630	85189: 914	0.999813	0.999915	48.91	0.2319808	
631	85189: 925	0.999936	0.999892	20.93	0.1821913	
632	85189: 935	[illegible]	[illegible]	[illegible]	[illegible]	
633	85189: 945	0.999901	0.999850	-24.17	0.1296188	
634	85189: 955	0.999848	0.999829	-8.73	0.1439288	
635	85189:1004	0.999838	0.999811	13.25	0.1531671	
636	85189:1014	[illegible]	[illegible]	[illegible]	[illegible]	
637	85189:1024	0.999669	0.999769	47.32	0.2032762	
638	85189:1035	0.999940	0.999745	-96.41	[illegible]	
639	85189:1045	0.999817	0.999725	-41.02	[illegible]	
640	85189:1054	[illegible]	[illegible]	[illegible]	[illegible]	
641	85189:1105	0.999678	0.999683	2.19	0.1723287	
642	85189:1114	0.999661	0.999664	1.37	0.1896326	
643	85189:1125	0.999641	0.999641	[illegible]	0.2034363	
644	85189:1135	[illegible]	[illegible]	[illegible]	[illegible]	
645	85189:1144	0.999681	0.999601	-38.14	0.2065931	
646	85189:1155	0.999725	0.999578	-70.01	0.1998091	
647	85189:1205	0.999660	0.999557	-48.97	0.2004468	
648	85189:1214	[illegible]	[illegible]	[illegible]	[illegible]	
649	85189:1225	0.999597	0.999515	-39.39	0.2014876	
650	85189:1235	0.999559	0.999494	-31.08	0.2072116	
651	85189:1244	0.999445	0.999475	14.25	0.2206203	
652	85189:1255	[illegible]	[illegible]	[illegible]	[illegible]	
653	85189:1304	0.999389	0.999433	21.27	0.2444852	
654	85189:1314	0.999380	0.999412	15.53	0.2529898	
655	85189:1325	0.999411	0.999389	-10.29	0.2566907	
656	85189:1334	0.999407	[illegible]	[illegible]	[illegible]	
657	85189:1345	0.999354	0.999347	-3.04	0.2630123	
658	85189:1355	0.999341	0.999326	-7.00	0.2661100	
659	85189:1404	0.999323	0.999307	-7.19	0.2688504	
660	85189:1414	[illegible]	[illegible]	[illegible]	[illegible]	
661	85189:1425	0.999263	0.999263	0.43	0.2670245	
662	85189:1434	0.999129	0.999245	54.94	0.2758743	
663	85189:1444	0.999068	0.999224	74.08	0.2854591	
664	85189:1455	0.999067	[illegible]	[illegible]	[illegible]	
665	85189:1504	0.999051	0.999182	62.42	0.2993578	
666	85189:1514	0.999035	0.999161	59.98	0.3047699	
667	85189:1524	0.999009	0.999140	62.51	0.3097179	
668	85189:1534	0.998977	[illegible]	[illegible]	[illegible]	
669	85189:1544	0.998961	0.999098	65.10	0.3184165	
670	85189:1555	0.998951	0.999075	58.84	0.3214460	
671	85189:1604	0.999073	0.999056	-7.91	0.3195234	
672	85189:1614	0.999072	0.999035	-11.80	0.3171288	
673	85189:1625	[illegible]	[illegible]	[illegible]	[illegible]	

3/10

LEAK RATE ANALYSIS

0.3155%/DAY LEAKAGE OBSERVED AFTER686 READINGS

LEAK RATE "BANDWIDTH": MIN IS 0.2703; MAX IS 0.3703

RDG	TIME	NORM WGT	EXP WGT	DEV/LEAK	OBS LEAK RATE	LEAK RATE LIMIT VIOL.
674	85189:1634	0.999007	0.998991	6.74	0.3141867	
675	85189:1645	0.998979	0.998970	-4.29	0.3131103	
676	85189:1655	0.998907	0.998949	19.91	0.3135007	
677	85189:1704	0.998914	0.998930	7.51	0.3131540	
678	85189:1715	[illegible]	[illegible]	[illegible]	[illegible]	
679	85189:1725	0.998891	0.998886	-2.36	0.3113204	
680	85189:1734	0.998909	0.998867	-20.08	0.3097293	
681	85189:1745	0.998888	0.998844	-20.79	0.3082362	
682	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
683	85189:1804	0.998807	0.998804	-1.08	0.3071854	
684	85189:1815	0.998788	0.998781	-3.16	0.3067239	
685	85189:1825	0.998887	0.998760	-60.52	0.3038694	
686	85189:1834	[illegible]	[illegible]	[illegible]	[illegible]	

4/10

LEAK RATE NORMALIZED AIR WEIGHTS

RDC	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	57.3% BLDG VOLUME	16.5% BLDG VOLUME
620	[illegible]	0	1.0000000	1.0000000	1.0000000	1.0000000
621	85189: 745	10	1.0000080	1.0000059	0.9999557	0.9999930
622	85189: 754	19	1.0000187	1.0000398	1.0000407	0.9999858
623	85189: 805	30	0.9999938	1.0000070	0.9997753	0.9999160
[illegible]	[illegible]	40	[illegible]	[illegible]	[illegible]	[illegible]
625	85189: 824	49	0.9998778	0.9999555	0.9998495	0.9998755
626	85189: 835	60	0.9999052	1.0003308	0.9998020	0.9998350
627	85189: 844	69	0.9999002	1.0004803	0.9997396	0.9998347
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
629	85189: 905	90	0.9999676	1.0004177	0.9997473	0.9997164
630	85189: 914	99	0.9998128	1.0005434	0.9997068	0.9997859
631	85189: 925	110	0.9999361	[illegible]	0.9996604	0.9997431
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
633	85189: 945	130	0.9999010	1.0003331	0.9996166	0.9997119
634	85189: 955	140	0.9998477	1.0003705	0.9996011	0.9996827
635	85189:1004	149	0.9998383	0.9999109	0.9995357	0.9996383
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
637	85189:1024	169	0.9996694	1.0000117	0.9997278	0.9997045
638	85189:1035	180	0.9999478	1.0003266	0.9996288	0.9996868
639	85189:1045	190	0.9998168	0.9999083	0.9995303	0.9997130
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
641	85189:1105	210	0.9996701	0.9999031	0.9994318	0.9998520
642	85189:1114	219	0.9996609	1.0000248	0.9995133	0.9998391
643	85189:1125	230	0.9996431	1.0000017	0.9994994	0.9996897
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
645	85189:1144	249	0.9996808	1.0002302	0.9993690	0.9996520
646	85189:1155	260	0.9997248	1.0002343	0.9994107	0.9998332
647	85189:1205	270	0.9996595	1.0002268	0.9993242	0.9994275
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
649	85189:1225	290	0.9995975	0.9997622	0.9992494	0.9995103
650	85189:1235	300	0.9995591	0.9997206	0.9992073	0.9994028
651	85189:1244	309	0.9994453	0.9997679	0.9991859	0.9993792
[illegible]	[illegible]	320	[illegible]	[illegible]	[illegible]	[illegible]
653	85189:1304	329	0.9993886	0.9999925	0.9991078	0.9994293
654	85189:1314	339	0.9993797	1.0000539	0.9991138	0.9992900
655	85189:1325	350	0.9994108	0.9999255	0.9990625	0.9993460
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
657	85189:1345	370	0.9993536	0.9998900	0.9989680	0.9995308
658	85189:1355	380	0.9993410	0.9998335	0.9992023	0.9996110
659	85189:1404	389	0.9993225	0.9998055	0.9989023	0.9994145
[illegible]	[illegible]	400	[illegible]	[illegible]	[illegible]	[illegible]
661	85189:1425	410	0.9992626	0.9994846	0.9987932	0.9992518
662	85189:1434	419	0.9991294	0.9993522	0.9988066	0.9994058
663	85189:1444	429	0.9990684	0.9993884	0.9987906	0.9993067
[illegible]	[illegible]	440	[illegible]	[illegible]	[illegible]	[illegible]
665	85189:1504	449	0.9990509	0.9995101	0.9987254	0.9990859
666	85189:1514	459	0.9990351	0.9994874	0.9986958	0.9990630
667	85189:1524	469	0.9990088	0.9993970	0.9987105	0.9990101
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
669	85189:1544	489	0.9989614	0.9995025	0.9988510	0.9990484
670	85189:1555	500	0.9989515	0.9994266	0.9988225	0.9992659
671	85189:1604	509	0.9990726	0.9994957	0.9987781	0.9990567
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
673	85189:1625	530	0.9990304	0.9994178	0.9987493	0.9989691

5/10

LEAK RATE NORMALIZED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	57.3% BLDG VOLUME	16.5% BLDG VOLUME
674	85189:1634	[illegible]	[illegible]	0.9993970	[illegible]	[illegible]
675	85189:1645	550	0.9989790	0.9993576	0.9986925	0.9988708
676	85189:1655	560	0.9989073	0.9994031	0.9986705	0.9989074
677	85189:1704	569	0.9989145	0.9993042	0.9986740	0.9988755
678	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9988940
679	85189:1725	590	0.9988911	0.9993913	0.9986375	0.9988470
680	85189:1734	599	0.9989094	0.9993893	0.9985545	0.5388171
681	85189:1745	610	0.9988878	0.9992561	0.9985857	0.9987496
682	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9986103
683	85189:1804	629	0.9988067	0.9991537	0.9987603	0.9987934
684	85189:1815	640	0.9987880	0.9993802	0.9985981	0.9987181
685	85189:1825	650	0.9988872	0.9993413	0.9984873	0.9987555
686	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.9987678

6/10

WEIGHTED COMPARTMENT AVERAGES BY READING

LOWER CONTAINMENT

RDG	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA	AVG PSIA
620	95.591	0.6039	29.1740	97.074	0.5862	29.2080	98.093	0.5425	29.2080
621	95.588	0.6039	29.1740	97.079	[illegible]	29.2070	98.093	0.5427	[illegible]
622	95.588	0.6039	29.1750	97.083	0.5865	29.2100	98.094	0.5429	29.2080
623	95.583	0.6041	29.1740	97.091	0.5867	29.2030	98.094	0.5429	29.2060
624	95.580	0.6041	29.1710	97.078	0.5867	29.2050	98.091	0.5430	29.2060
625	95.581	0.6037	[illegible]	[illegible]	[illegible]	[illegible]	98.090	[illegible]	[illegible]
626	95.579	0.6041	29.1830	97.081	0.5875	29.2040	98.080	0.5434	29.2040
627	95.573	0.6041	29.1870	97.077	0.5875	29.2020	98.090	0.5434	29.2040
628	95.568	0.6039	29.1720	97.084	0.5879	29.2020	98.091	0.5436	29.2030
629	95.565	0.6043	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.5437	29.2010
630	95.558	0.6041	29.1880	97.080	0.5882	29.2020	98.091	0.5437	29.2030
631	95.559	0.6045	29.1860	97.063	0.5884	29.2000	98.092	0.5439	29.2020
632	95.555	0.6049	29.1860	97.073	0.5886	29.1980	98.089	0.5437	29.2020
633	[illegible]	[illegible]	29.1830	[illegible]	[illegible]	[illegible]	98.086	[illegible]	29.2010
634	95.553	0.6043	29.1830	97.073	0.5886	29.1990	98.087	0.5439	29.2000
635	95.551	0.6045	29.1700	97.079	0.5892	29.1980	98.092	0.5439	29.1990
636	95.546	0.6027	29.1860	97.076	0.5856	29.1990	98.077	0.5415	29.1990
637	95.557	0.6033	29.1780	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
638	95.558	0.6043	29.1820	97.079	0.5865	29.1980	98.073	0.5425	29.1980
639	95.549	0.6037	29.1690	97.087	0.5869	29.1960	98.038	0.5427	29.1970
640	95.566	0.6037	29.1630	97.088	0.5875	29.1950	97.938	0.5427	29.1960
641	95.559	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
642	95.539	0.6039	29.1720	97.086	0.5875	29.1960	98.054	0.5429	29.1960
643	95.550	0.6025	29.1710	97.083	0.5850	29.1930	98.040	0.5422	29.1980
644	95.533	0.6031	29.1800	97.075	0.5858	29.1920	98.080	0.5422	29.1950
645	95.540	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
646	95.527	0.6035	29.1770	97.071	0.5862	29.1910	98.025	0.5425	29.1940
647	95.531	0.6035	29.1770	97.089	0.5867	29.1900	98.073	0.5427	29.1910
648	95.535	0.6039	29.1740	97.087	0.5875	29.1900	98.066	0.5427	29.1920
649	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
650	95.532	0.6039	29.1630	97.070	0.5881	29.1870	98.060	0.5430	29.1920
651	95.537	0.6033	29.1640	97.078	0.5882	29.1870	98.058	0.5432	29.1880
652	95.534	0.6035	29.1640	[illegible]	0.5882	29.1860	98.037	[illegible]	29.1900
653	95.537	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
654	95.534	0.6043	29.1730	97.072	0.5886	29.1850	98.060	0.5436	29.1870
655	95.531	0.6041	29.1690	97.079	0.5898	29.1880	98.087	0.5438	29.1890
656	95.531	0.6041	29.1720	97.073	[illegible]	29.1830	98.056	0.5436	29.1880
657	95.532	0.6041	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
658	95.536	0.6045	29.1670	97.075	0.5899	29.1890	98.052	0.5437	29.1960
659	95.527	0.6045	29.1680	97.075	0.5905	29.1810	97.984	0.5439	29.1880
660	95.496	0.6039	29.1590	97.074	0.5907	29.1800	98.066	0.5441	29.1830
661	95.547	0.6049	29.1580	97.074	0.5907	[illegible]	[illegible]	[illegible]	[illegible]
662	95.547	0.6047	29.1540	97.079	0.5911	29.1790	97.927	0.5441	29.1840
663	95.550	0.6045	29.1550	97.073	0.5918	29.1790	97.955	0.5444	29.1830
664	95.496	0.6045	29.1550	97.050	0.5913	29.1770	98.079	0.5444	29.1830
665	95.498	0.6047	29.1560	[illegible]	[illegible]	[illegible]	98.078	[illegible]	[illegible]
666	95.502	0.6047	29.1550	97.052	0.5916	29.1750	98.069	0.5446	29.1820
667	95.495	0.6050	29.1530	97.063	0.5916	29.1760	98.064	0.5448	29.1810
668	95.500	0.6041	29.1550	97.063	0.5922	29.1750	98.060	[illegible]	29.1800
669	95.538	0.6039	29.1560	[illegible]	[illegible]	29.1740	[illegible]	[illegible]	29.1780
670	95.517	0.6041	29.1540	97.065	0.5864	29.1740	98.018	0.5434	29.1840
671	95.514	0.6043	29.1560	97.062	0.5867	29.1730	98.031	0.5437	29.1790
672	95.517	0.6039	29.1540	97.057	0.5867	29.1730	98.033	0.5437	29.1770
673	95.499	0.6043	29.1530	[illegible]	0.5869	[illegible]	98.057	0.5439	29.1760

WEIGHTED COMPARTMENT AVERAGES BY READING

LOWER CONTAINMENT

RDG	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA	AVG PSIA
674	95.498	0.6039	29.1520	97.055	0.5871	29.1690	98.048	0.5439	29.1770
675	95.485	0.6037	29.1500	[illegible]	[illegible]	29.1710	[illegible]	0.5443	29.1760
676	95.481	0.6045	29.1520	97.046	0.5977	29.1700	98.062	0.5444	29.1770
677	95.484	0.6043	29.1490	97.043	0.5877	29.1700	98.060	0.5444	29.1760
678	95.490	0.6029	29.1500	97.048	0.5856	29.1680	98.061	0.5429	29.1750
679	95.482	0.6034	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.5434	29.1740
680	95.483	0.6039	29.1510	97.062	0.5862	29.1660	98.051	0.5436	29.1730
681	95.467	0.6045	29.1480	97.053	0.5867	29.1670	98.043	0.5439	29.1710
682	95.485	0.6043	29.1460	97.047	0.5867	29.1660	98.018	0.5439	29.1730
683	95.493	0.6041	29.1450	[illegible]	[illegible]	[illegible]	[illegible]	0.5441	[illegible]
684	95.488	0.6039	29.1510	97.031	0.5875	29.1670	98.052	0.5441	29.1710
685	95.489	0.6049	29.1510	97.031	0.5877	29.1640	98.029	0.5444	29.1710
686	95.482	0.6039	29.1450	97.046	0.5875	29.1630	98.021	0.5443	29.1690

8/10

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 26.1% BLDG VOLUME	57.3% BLDG VOLUME	16.5% BLDG VOLUME
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
621	85189: 745	10	0.0514177	0.0514538	0.0514070	0.0513934
622	85189: 754	19	0.0514183	0.0514555	[illegible]	0.0513929
623	85189: 805	30	0.0514170	0.0514530	0.0513978	0.0513891
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
625	85189: 824	49	0.0514110	0.0514512	0.0514016	0.0513873
626	85189: 835	60	0.0514124	0.0514705	0.0513991	0.0513852
627	85189: 844	69	0.0514122	0.0514782	0.0513959	0.0513852
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
629	85189: 905	90	0.0514156	0.0514750	0.0513963	0.0513791
630	85189: 914	99	0.0514077	0.0514614	0.0513943	0.0513827
631	85189: 925	110	0.0514140	0.0514770	0.0513919	0.0513805
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
633	85189: 945	130	0.0514122	0.0514706	0.0513896	0.0513789
634	85189: 955	140	0.0514095	0.0514738	0.0513858	0.0513774
635	85189:1004	149	0.0514090	0.0514689	0.0513855	0.0513751
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
637	85189:1024	169	0.0514003	0.0514541	0.0513953	0.0513785
638	85189:1035	180	0.0514146	0.0514703	0.0513908	0.0513776
639	85189:1045	190	0.0514079	[illegible]	0.0513852	0.0513790
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
641	85189:1105	210	0.0514008	0.0514485	0.0513801	0.0513961
642	85189:1114	219	0.0513999	0.0514447	0.0513843	0.0513751
643	85189:1125	230	0.0513990	0.0514536	0.0513836	0.0513777
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
645	85189:1144	249	0.0514009	0.0514653	0.0513769	0.0513758
646	85189:1155	260	0.0514031	0.0514685	0.0513796	0.0513748
647	85189:1205	270	0.0513996	0.0514651	0.0513780	0.0513689
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
649	85189:1225	290	0.0513[illegible]56	0.0514412	0.0513707	0.0513685
650	85189:1235	300	[illegible]	0.0514391	0.0513686	0.0513671
651	85189:1244	309	[illegible]	0.0514415	0.0513675	0.0513610
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
653	85189:1304	329	0.0513859	0.0514531	0.0513635	0.0513643
654	85189:1314	339	0.0513854	0.0514569	0.0513638	0.0513572
655	85189:1325	350	0.0513870	0.0514496	0.0513611	0.0513601
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
657	85189:1345	370	0.0513841	0.0514478	0.0513563	0.0513709
658	85189:1355	380	0.0513834	0.0514449	0.0513683	0.0513737
659	85189:1404	389	0.0513825	0.0514476	0.0513529	0.0513636
660	[illegible]	400	[illegible]	[illegible]	[illegible]	[illegible]
661	85189:1425	410	0.0513794	0.0514270	0.0513473	0.0513552
662	85189:1434	419	0.0513725	0.0514201	0.0513480	0.0513631
663	85189:1444	429	0.0513694	0.0514220	0.0513472	0.0513580
[illegible]	[illegible]	440	[illegible]	[illegible]	[illegible]	[illegible]
665	85189:1504	449	0.0513685	0.0514283	0.0513438	0.0513467
666	85189:1514	459	0.0513677	0.0514261	0.0513423	0.0513455
667	85189:1524	469	0.0513663	0.0514224	0.0513430	0.0513438
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
669	85189:1544	48[illegible]	0.0513639	0.0514279	0.0513503	0.0513448
670	85189:1555	500	0.0513634	0.0514240	0.0513485	0.0513559
671	85189:1604	509	0.0513696	0.0514275	0.0513465	0.0513452
[illegible]	[illegible]	519	[illegible]	[illegible]	[illegible]	[illegible]
673	85189:1625	530	0.0513675	0.0514235	0.0513450	0.0513407

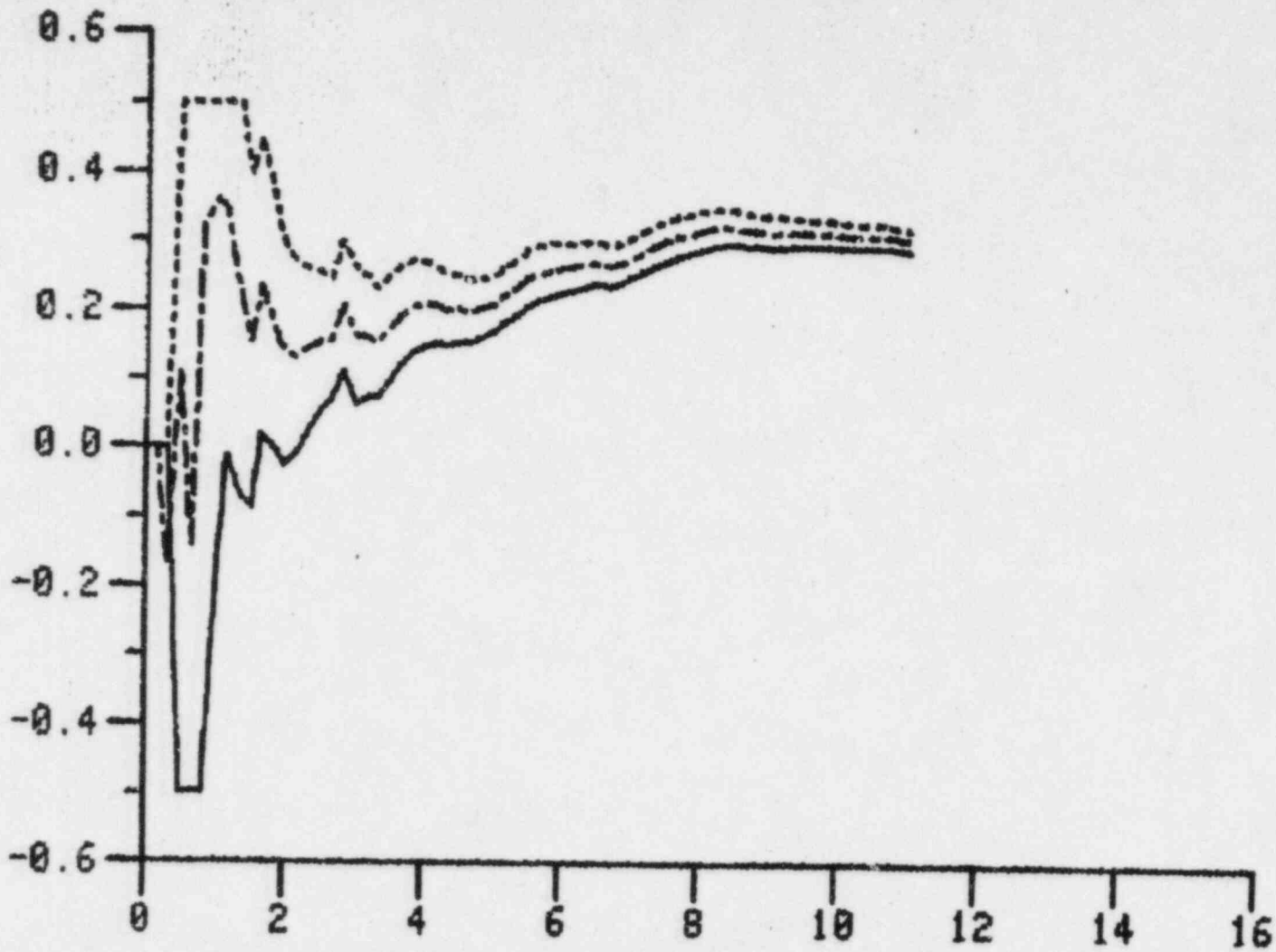
9/10

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER_CONTAINMENT 26.1% BLDG VOLUME	57.3% BLDG VOLUME	16.5% BLDG VOLUME
674	85189:1634	539	[illegible]	[illegible]	0.0513394	0.0513397
675	85189:1645	550	0.0513648	0.0514204	0.0513421	0.0513356
676	85189:1655	560	0.0513614	0.0514220	0.0513410	0.0513375
677	85189:1704	569	0.0513615	0.0514177	0.0513412	0.0513359
678	85189:1714	580	[illegible]	[illegible]	0.0513409	[illegible]
679	85189:1725	590	0.0513603	0.0514222	0.0513393	0.0513344
680	85189:1734	599	0.0513612	0.0514221	0.0513350	0.0513329
681	85189:1745	610	0.0513601	0.0514152	0.0513366	0.0513294
682	85189:1755	620	[illegible]	[illegible]	[illegible]	[illegible]
683	85189:1804	629	0.0513560	0.0514099	0.0513456	0.0513317
684	85189:1815	640	0.0513580	0.0514216	0.0513373	0.0513276
685	85189:1825	650	0.0513601	0.0514197	0.0513316	0.0513297
686	85189:1834	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

10/10

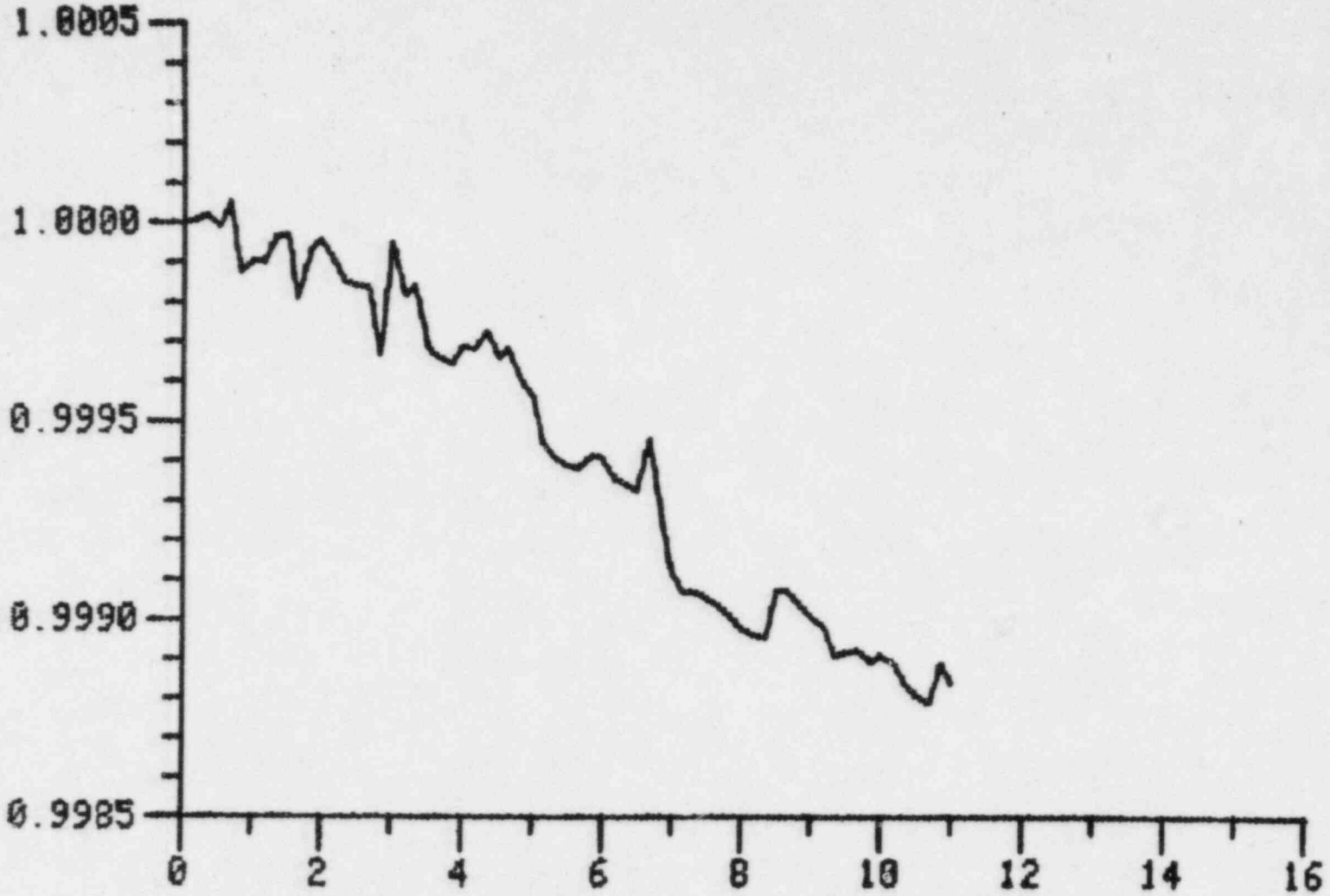
DUKE POWER COMPANY, CATAWBA 2
MASS PLOT ANALYSIS (MIN, OBS, MAX)



85189: 735 THRU 85189:1834
MIN - SOLID LINE
MAX - DASH LINE
OBS - DOT/DASH LINE

11/1

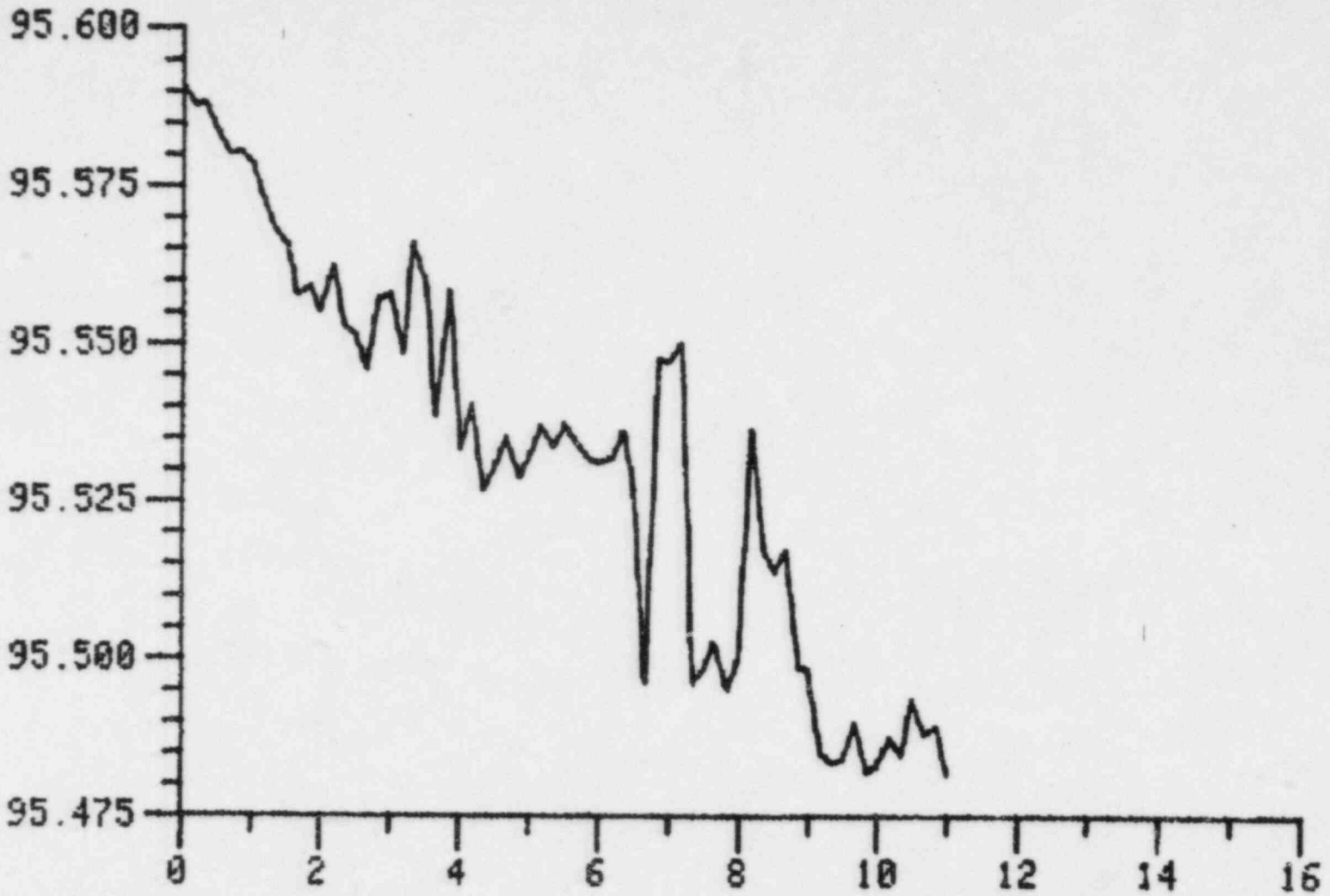
DUKE POWER COMPANY, CATAWBA 2
NORMALIZED AIR MASS



85189: 735 THRU 85189:1834

11/2

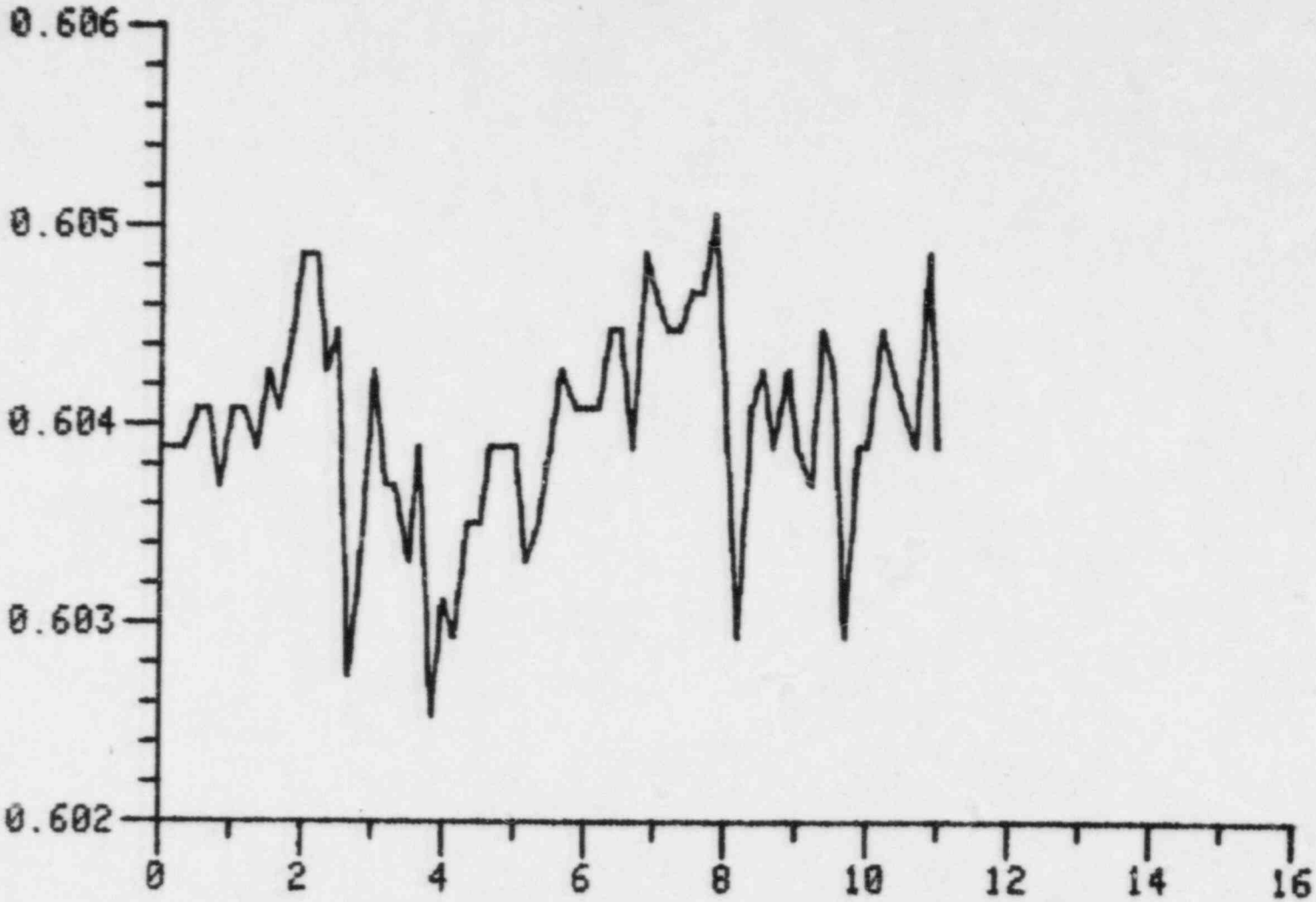
DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT TEMPERATURE



85189: 735 THRU 85189:1834

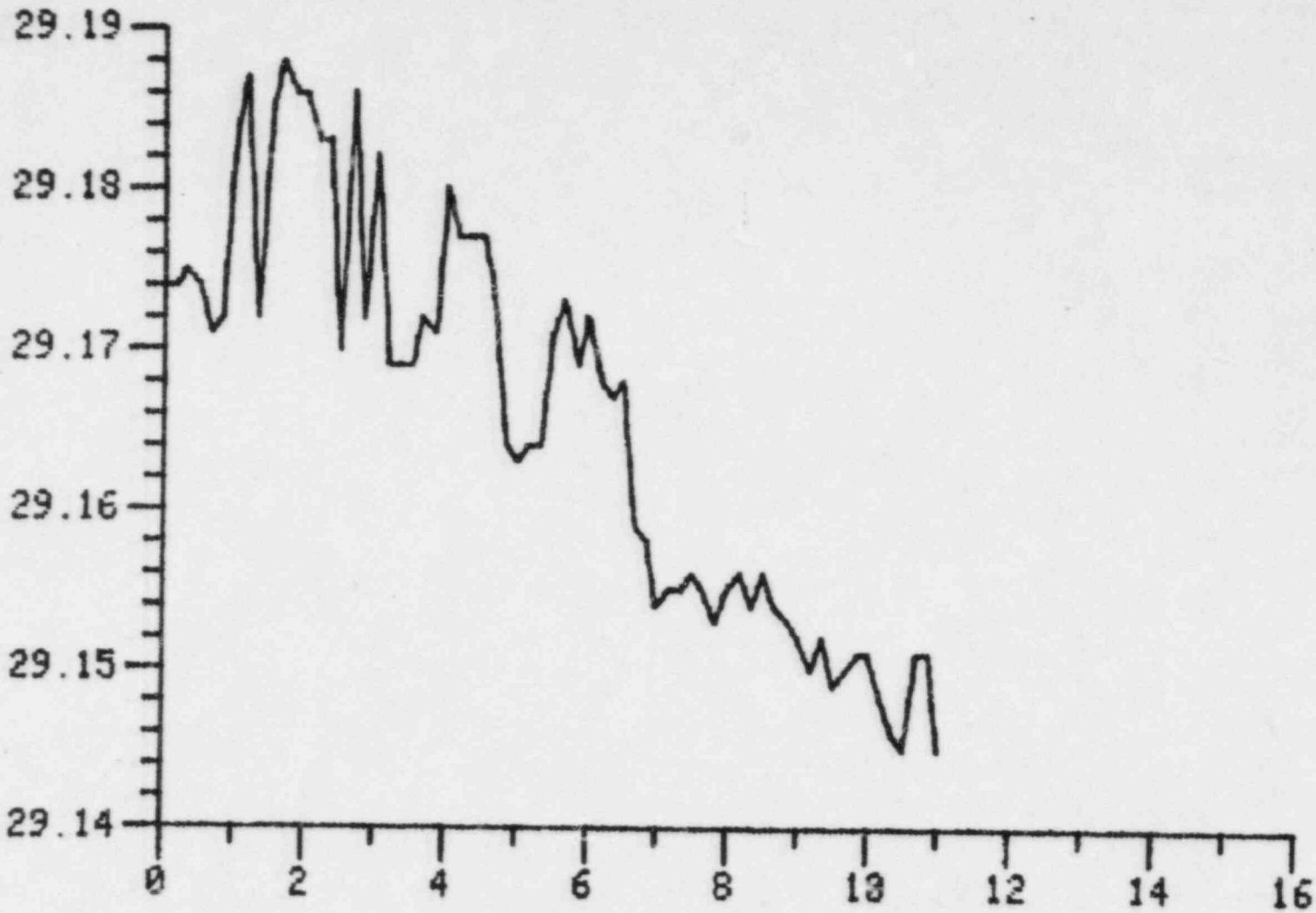
3/11

DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT VAPOR PRESSURE



85189: 735 THRU 85189:1834

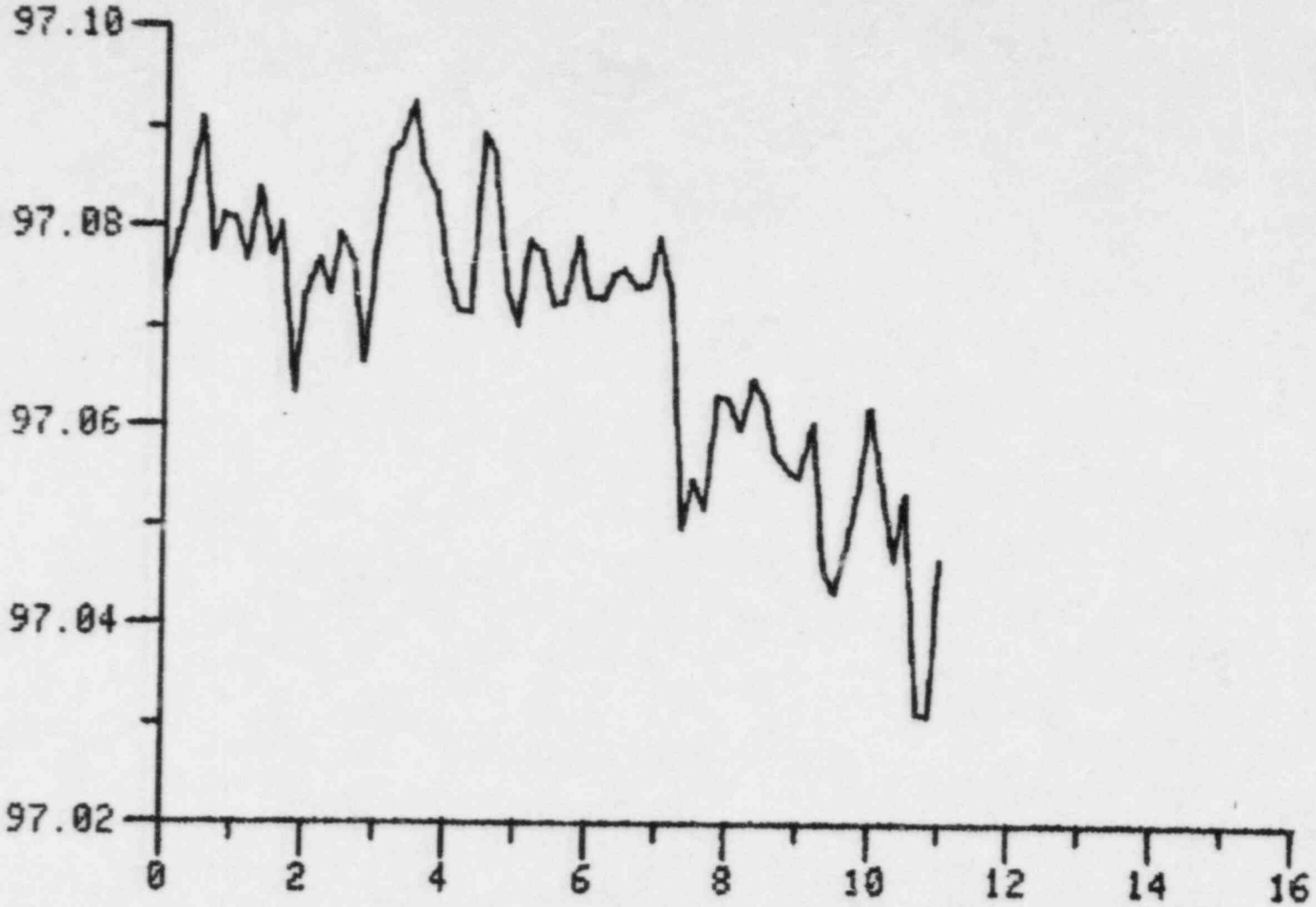
DUKE POWER COMPANY, CATAWBA 2
LOWER CONTAINMENT PRESSURE



85189: 735 THRU 85189:1834

11/5

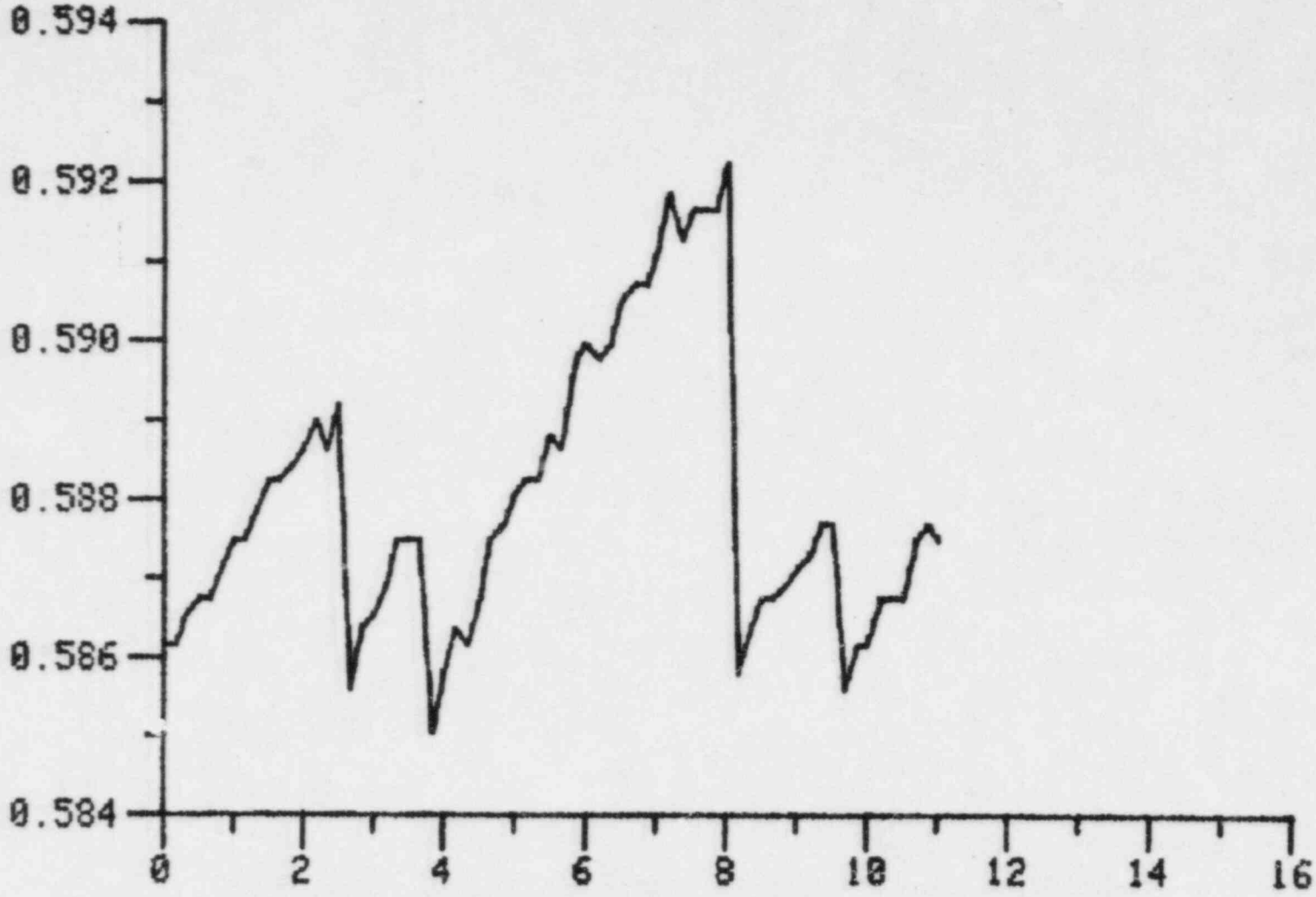
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT TEMPERATURE



85189: 735 THRU 85189:1834

11/9

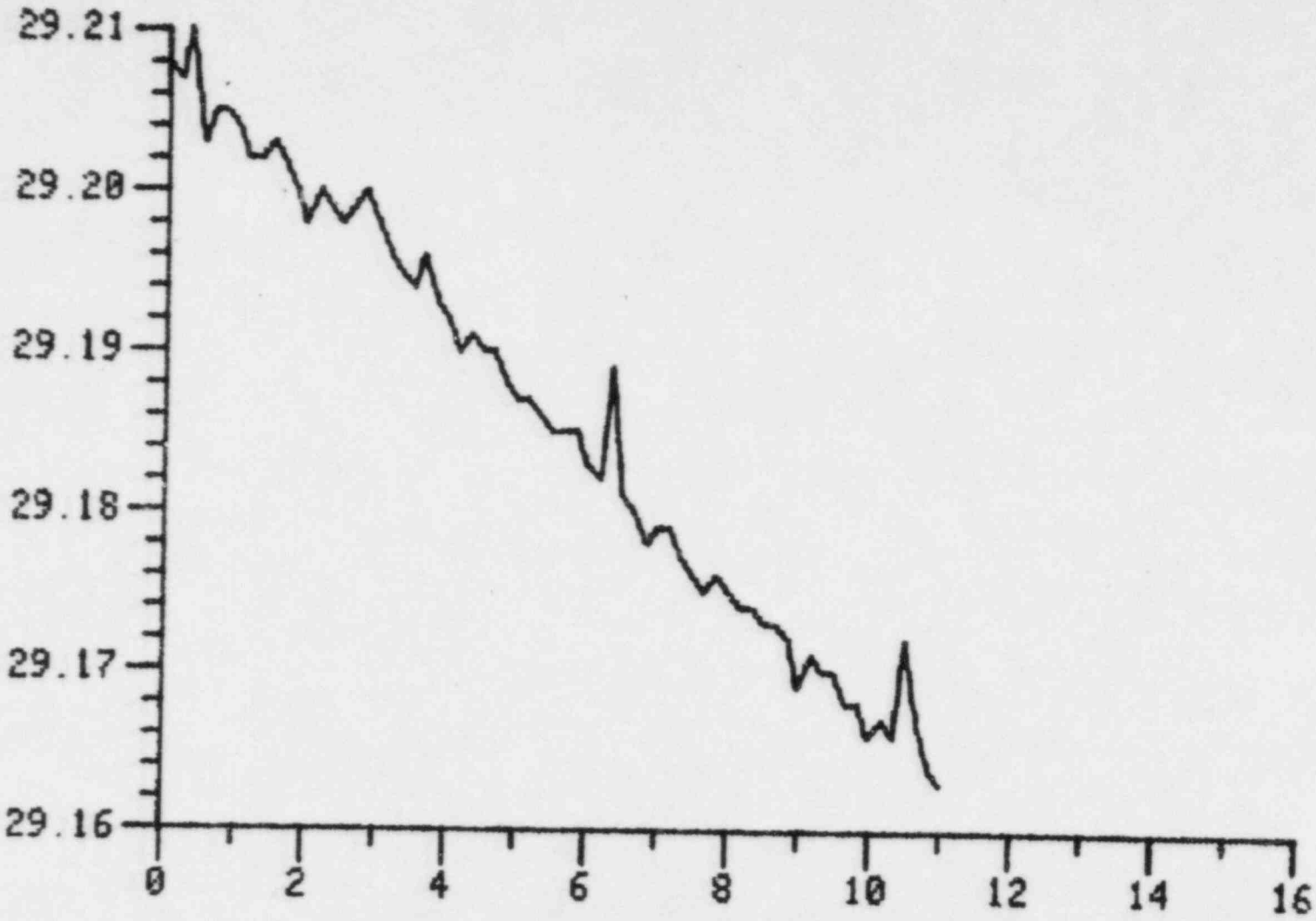
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT VAPOR PRESSURE



85189: 735 THRU 85189:1834

11/7

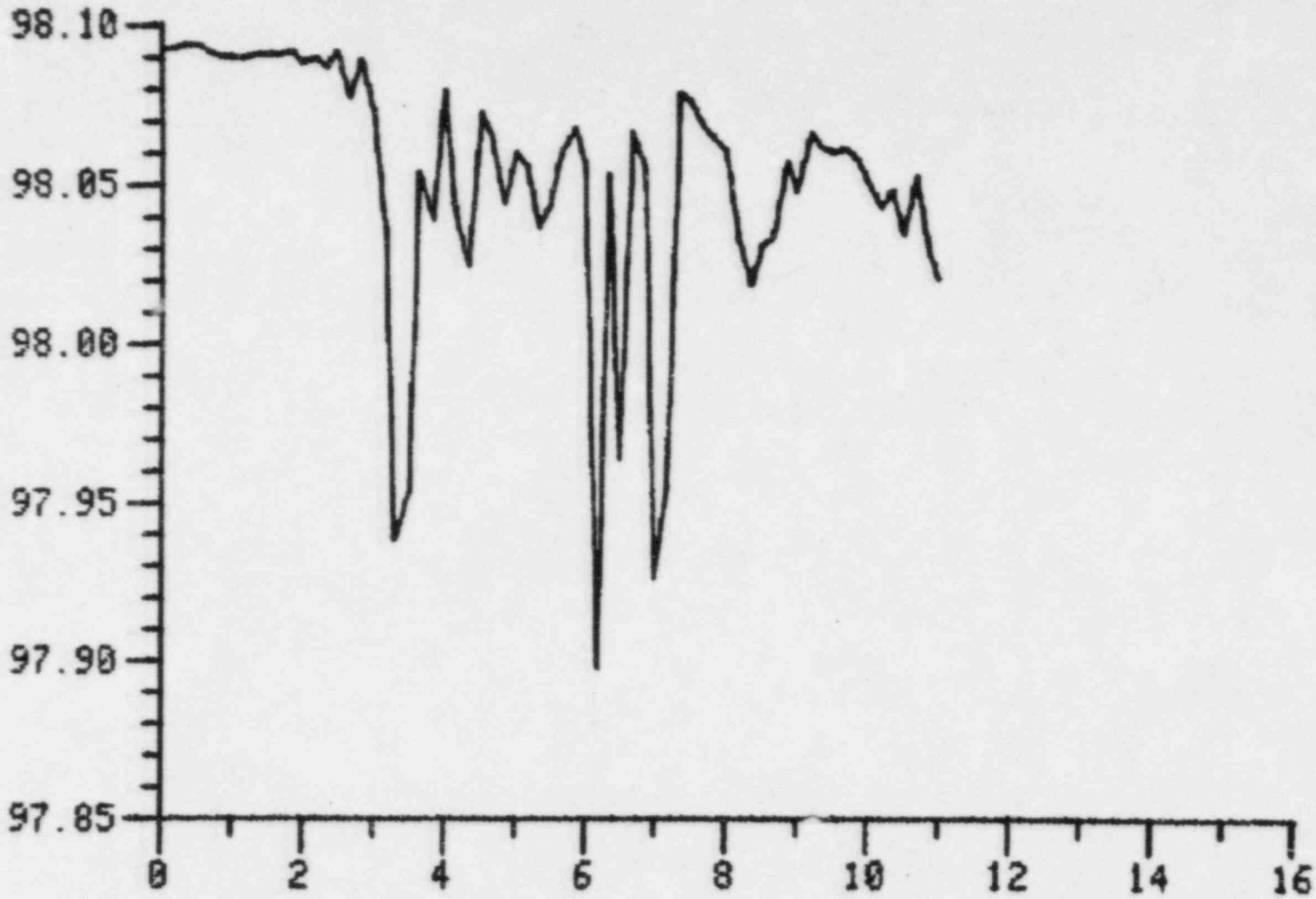
DUKE POWER COMPANY, CATAWBA 2
UPPER CONTAINMENT PRESSURE



85189: 735 THRU 85189:1834

11/8

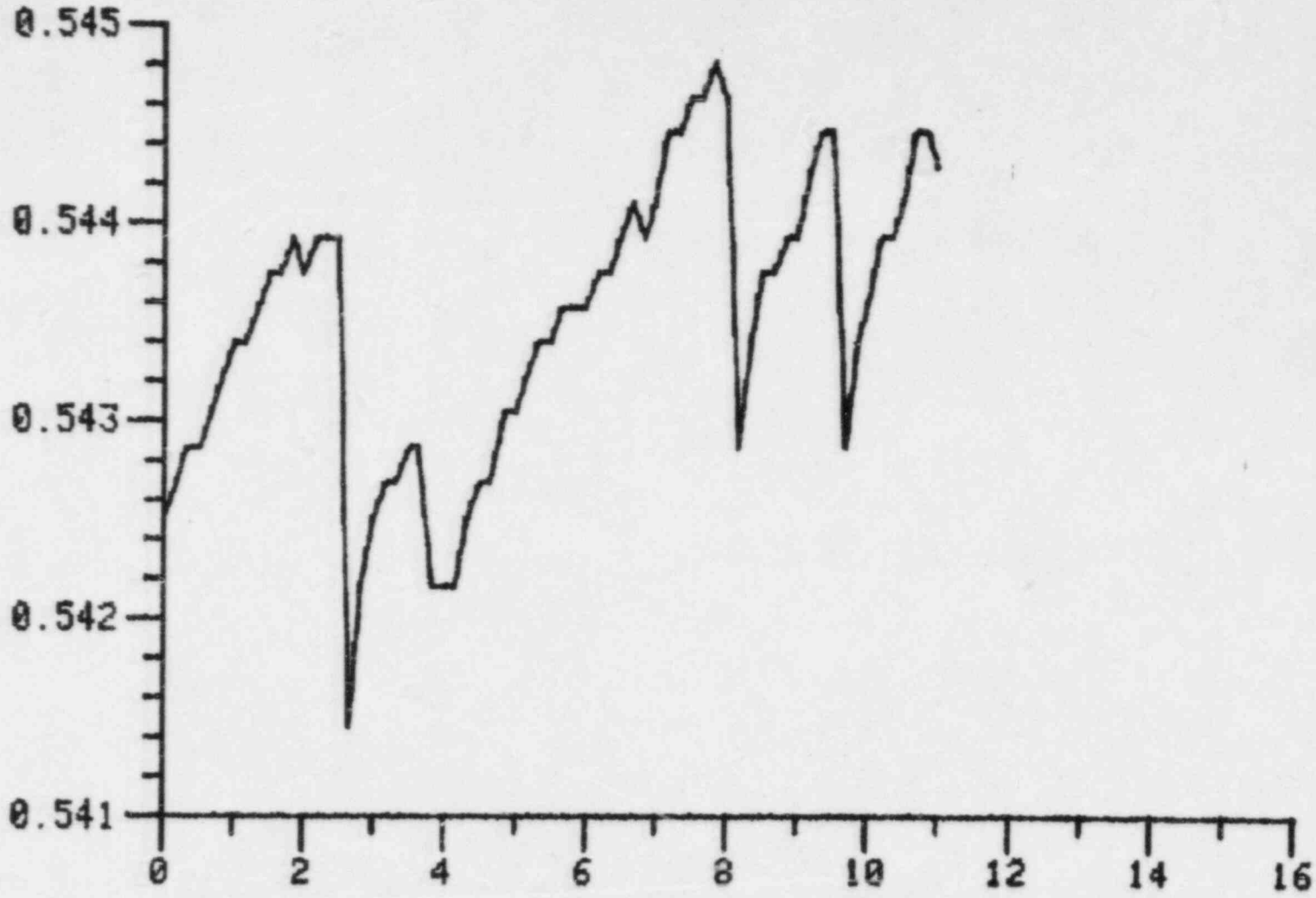
DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER TEMPERATURE



85189: 735 THRU 85189:1834

1/1

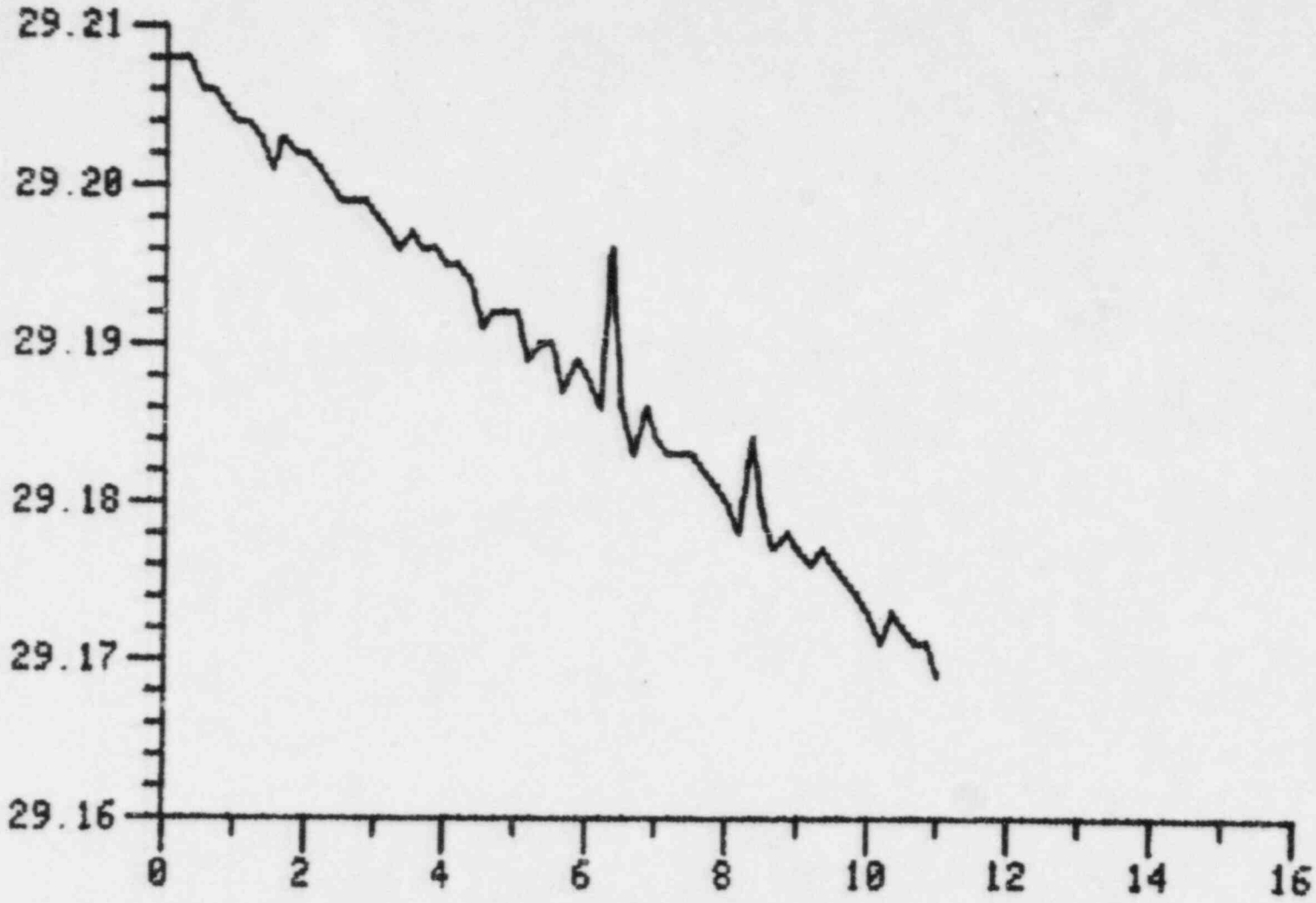
DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER VAPOR PRESSURE



85189: 735 THRU 85189:1834

11/11

DUKE POWER COMPANY, CATAWBA 2
ICE CONDENSER PRESSURE



85189: 735 THRU 85189:1834

APPENDIX C

TEST LOG

SUMMARY OF MAJOR ACTIVITIES DURING ILRT

Date/Time	Comments
May 9, 1985	Design Engineering completed pre-ILRT inspections.
June 8, 1985	Began valve alignments for ILRT.
June 21, 1985	Completed set up of rental compressors.
June 26, 1985	Ran and checked out rental compressors. Checked out O.K.
June 27, 1985	Began venting of Mechanical Penetration bellows to the annulus.
June 29, 1985/1400	Began pressurization of Containment for Structural Integrity Test.
June 29, 1985/2130	Entered Containment for visual inspection.
June 30, 1985/0100	Reached SIT pressure of 16.618 psig. Started 10 minute hold period.
June 30, 1985/0330	Personnel entered Containment to perform Post SIT inspection.
June 30, 1985/0815	Personnel exited Containment after performing Post SIT inspection.
June 30, 1985/2030	Reached .85P_T. Began 24-hour outgassing period.
July 1, 1985/2045	Began repressurization to P_T.
July 1, 1985/2200	Began 4 hour hold period for temperature stabilization.
July 2, 1985/0215	Began Reduced Pressure Test.
July 4, 1985/2000	Decided to abort Reduced Pressure Test due to unacceptable readings and problems with data acquisition equipment.
July 4, 1985/2330	Began pressurizing to Pa. Due to problems with data acquisition equipment, readings were taken manually to verify correctness.
July 5, 1985/2345	Began 4 hour hold period for temperature stabilization.
July 6, 1985/0415	Began Full Pressure Test.

Date/Time	Comments
July 7, 1985/0715	Satisfactorily completed Full Pressure Test. Allowed General Office Personnel to work on data acquisition equipment.
July 8, 1985/0735	Data acquisition equipment now working better - continued to take manual readings and started the Supplemental Verification Test.
July 8, 1985/1835	Completed Supplemental Verification Test.
July 8, 1985/2100	Began depressurization of containment after checking results of ILRT.
July 9, 1985/0715	Completed depressurization of Containment.