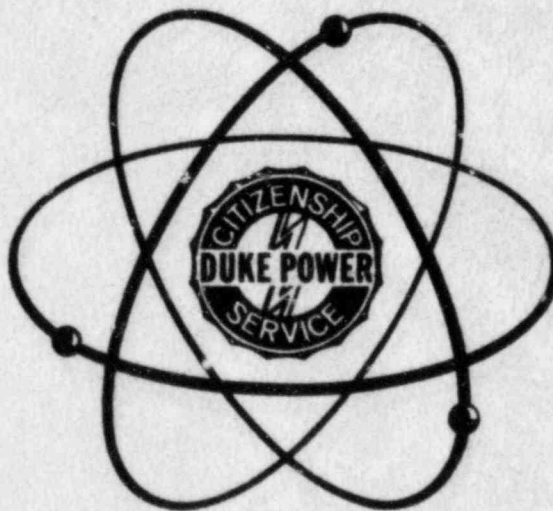


DUKE POWER COMPANY McGUIRE NUCLEAR STATION UNIT II

REACTOR CONTAINMENT BUILDING INTEGRATED LEAK RATE TEST



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DUKE POWER COMPANY
McGUIRE NUCLEAR STATION
UNIT II

REACTOR CONTAINMENT BUILDING
INTEGRATED LEAK RATE TEST
CONDUCTED SEPTEMBER 23-28, 1982

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DEFINITION OF SYMBOLS AND ABBREVIATIONS

ILRT	Integrated Leak Rate Test
E	Repeatability error
e	Absolute error
Σ	Measurement system error
$^{\circ}\text{F}$	Temperature, degrees Fahrenheit
FOM	Figure of Merit
L_A	Maximum allowable leakage rate
L_{AM}	Containment leak rate during 24 hour ILRT (UCL) + L_{AUX}
L_O	Imposed leak rate for verification
L_C	Containment leak rate during verification
L_{OBSRVD}	Total measured leak rate during 24 hour ILRT
$L_{OBSRVD}(95\%)$	95% Upper Confidence Valve of measured leak rate of the containment vessel = UCL
L_{AUX}	Leak rate of all penetrations, valves, flanges not exposed to ILRT test pressure
LLRT	Local leak rate test
P	Pressure
P_a	Design accident pressure
psia	Absolute pressure
psig	Gauge pressure
$^{\circ}\text{R}$	Temperature, degrees Rankine
SIT	Structural integrity test
T	Temperature
T_{dp}	Dew point temperature
t	Time
V	Containment volume, cubic feet

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 all associated ANSI, the absolute method and mass-plot technique 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 McGuire 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 data base for the containment leak rate test.

- Containment Net Free Volume	1,239,759 ft ³ (without ice)
- Design pressure	15 PSIG
- Calculated Peak Accident Pressure	14.8 PSIG
- Test Pressure	15.0 PSIG
- Test Temperature	Ambient

52 Resistance Temperature Detectors, three (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 McGuire 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. Three 8-hour shift crews which consisted of one shift coordinator and two technicians were utilized to maintain 24 hour test activity.

Pressurization for the McGuire Unit 2 ILRT was accomplished by a portable air compressor/dryer rented from Ingersol-Rand. The compressor/dryer was rated at 1800ICFM @ 125 PSIG. This compressor supplied air to the Upper and Lower Compartments only. The Ice Condenser Compartment was pressurized using station Instrument Air through a special -40°F dewpoint dryer. When the test was completed, the containment vessel was depressurized through the Ventilation Evacuation system in the annulus. 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.

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.

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

- The vessel is under calculated accident pressure, 14.8 psig.
- 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 analysis are performed on the test data to ensure that the test results are reliable and accurate.

Summary

"THE CONTAINMENT VESSEL INTEGRATED LEAK RATE AND STRUCTURAL INTEGRITY TEST" was initiated on 9/23/82 and completed on 9/28/82. It was conducted in compliance with the McGuire 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 16.970 PSIG for the Structural Integrity Test. Pressure was then reduced to 15.0 PSIG and the Integrated Leak Rate Test begun at 0245 (Run 1) on 9/26/82 after a > 4 hour stabilization period. The test result was evaluated acceptable at 1445 on 9/27/82 after a 36 hour test run. At Run 143 computer printout indicated:

The containment vessel leak rate (observed)	= 0.0770901% per day
The containment vessel leak rate upper limit (95% UCL)	= 0.0876706% per day
The containment vessel leak rate lower limit	= 0.0665096% per day

The 95% upper confidence limit of the leakage rate was less than the acceptance criteria which is 0.15% per day.

The verification test to demonstrate the sensitivity and accuracy of test equipment started at Run 148 and attained acceptable measured value of 0.3496252% per day at Run 186.

Based on the low value of the measured leakage rate compared with the acceptance criteria and the analysis of all graphical data, the Containment Vessel leak rate test for McGuire Nuclear Station Unit 2 was declared successfully completed and terminated at 0130 on 9/28/82. This test was conducted per test procedure

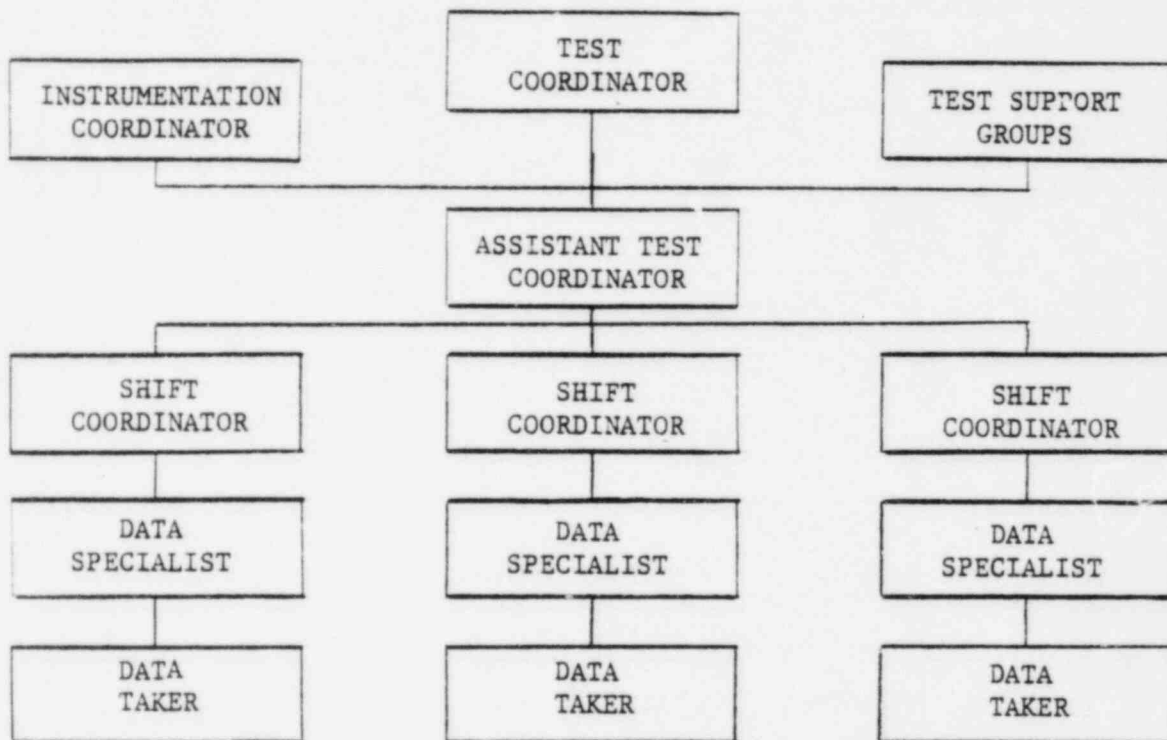
TP/2/A/1200/29, Containment Initial Integrated Leak Rate Test and Structural Integrity Test.

Problems were encountered with the ILRT computer after initiation of the 24 hour test and were not cleared up until about 35 hours later. From this data we chose our 24 hour limits (Readings 48-143). However, because of these problems and time being essential, the leak rate was considered initial at Reading #1. So our leak rate included leakage from Readings #1-47. Later analysis showed that at an initiation point at Reading #48, the leak rate could have been reduced to 0.026685%/Day observed and $L_{95\%}$ (95%) to 0.0429875%/Day. This would also affect the limits

for the supplemental verification test equation. We would now have .0469402%/Day
 \leq .05%/Day; still within the acceptance criteria.

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.

Assistant Test Coordinator: His lead responsibility is to assume test coordinator responsibilities during his 12 hour shift. Only Test and Assistant Test Coordinators are on 12 hour shifts.

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

Test Support: 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 Specialist: His lead responsibility is to process and edit raw data.

Data Taker: Record data accurately at correct intervals.

TEST BACKGROUND INFORMATION

TEST METHOD AND CALCULATION TECHNIQUE (DETAIL IN APPENDIX A)

TEST METHOD: The absolute method of leakage rate testing is used for the McGuire 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 humidity 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 leaks 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 14.8 PSIG.

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.

TEST ACTIVITY FLOW CHART: Figure 1, Test Pressure versus Time Curve, provides an overall look of the test activities. This provides critical information for test planning and test execution.

TEST ACCEPTANCE CRITERIA AND TEST RESULTS:Acceptance Criteria

24 Hour Leak Test: The total Containment Vessel Leak Rate (L_{AM})

is less than $.75 L_A$; $L_{AM} < .75 L_A$

where $L_A = .20\%$ of the Containment Vessel air mass per day.

Now $L_{AM} = L_{OBSRVD} (95\%) + L_{AUX}$

where $L_{OBSRVD} (95\%)$ Upper Confidence Value of measured leak rate of the containment vessel.

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

Supplemental Verification Test: The difference between the supplemental verification and the total measured leak rate is within $.25 L_A$:

$$|(L_C - L_O) - L_{OBSRVD}| \leq .25 L_A$$

where L_C = Total measured leak rate during supplemental test

L_O = Imposed Known leakage

L_{OBSRVD} = Total measured leak rate during 24 hour test

Test Results

The following are results of McGuire Unit 2 Preoperational ILRT completed on September 28, 1982:

24-Hour Test Results

$L_{OBSRVD} = 0.0770901 \% \text{ per day}$

$L_{OBSRVD} (95\%) = 0.0876706 \% \text{ per day}$

Now Ventilation Instrument Air penetration M-359 (2VI) was not exposed to ILRT test conditions because this penetration needed to be available to provide air to the inner seal of the Upper Personnel Air Lock Reactor Door for entry into the pressurized vessel if necessary. This was the only Thru Line Leak Class 2 penetration not exposed to test conditions. It was, however, tested immediately after ILRT on 10/1/82 and the resulting leakage was 0.00028% per day.

So $L_{AM} = L_{OBSRVD} (95\%) + L_{AUX}$

and $L_{AM} = 0.0876706\%/Day + 0.00028\%/Day$

$L_{AM} = 0.0879506\%/Day$

Verification Test Results

$$L_C = 0.3496252\%/Day$$

$$L_O = 0.276\%/Day$$

$$L_{OBSRVD} = 0.0770901\%/Day$$

$$(0.3496252\%/Day - 0.276\%/Day) - 0.0770901\%/Day \leq .05\%/Day$$

.0034649%/Day \leq .05%/Day, well within the acceptance criteria.

NOTE: Some questions have been raised concerning inlet pressure measurements for the turbine flowmeter during the supplemental verification test. See Appendix D, Attachment #3.

RESULTS OF TYPE B AND C LEAK RATE TESTS:

<u>Test</u>	<u>Final Conservative Test Results</u>
TP/2/A/1200/16, Isolation Valves Leak Rate Test	1452.61 sccm = $4.2199819 \times 10^{-6}\%$ /Day
TP/2/A/1200/15, Mechanical Penetrations Leak Rate Test	1900.0 sccm = $3.4549135 \times 10^{-6}\%$ /Day
TP/2/A/1200/18, Upper Con- tainment Personnel Air Lock Leak Rate Test	*
TP/2/A/1200/19, Lower Con- tainment Personnel Air Lock Leak Rate Test	*
TP/2/A/1200/17, Fuel Transfer Tube Leak Rate Test	0.2 sccm = $5.8102063 \times 10^{-10}\%$ /Day
TP/2/A/1200/20, Equipment Hatch Leak Rate Test	90.0 sccm = $2.6145928 \times 10^{-7}\%$ /Day
TP/2/A/1350/24, Electrical Penetration O-Ring Leak Rate Test	3.974 sccm = $1.154488 \times 10^{-8}\%$ /Day

Formula Used for Conversion:

$$(\%/Day) = 100\% \times \frac{\dot{Q}_2}{m_1} \quad \text{where } \dot{Q}_2 = \text{Measured leakage of TP in question (lbm/Day)}$$

$$m_1 = \text{Mass containment vessel at start of 24 hr. test (lbm).}$$

$$(\%/Day) = 100\% \frac{P_2}{R} \frac{\dot{Q}_2}{T_2} = 100 \frac{P_2}{P_1} \frac{\dot{Q}_2}{V_1} \frac{T_1}{T_2} ; \text{ where } P_2 = \text{Test pressure of B or C test (PSIA)}$$

$$\dot{Q}_2 = \text{Final leakage results (SCFM)}$$

$$T_1 = \text{Temp of Vessel at start of 24 Hour Test}$$

$$= 546.17^\circ R$$

$$SCFM = SCCM \times (3.5314667 \times 10^{-5})$$

$$P_1 = \text{Pressure of Vessel at start of 24 Hr. Test}$$

$$= 29.355 \text{ PSIA}$$

$$V_1 = \text{Volume of Vessel} = 1,239,759 \text{ ft}^3$$

$$T_2 = \text{Use } 80^\circ F (540^\circ R) \text{ as standard for B \& C}$$

$$\text{test temperatures}$$

* These tests cannot be completed by due date of this report. When test is completed, results will be submitted to the NEC.

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.

Instrument Specifications

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

Range: 0 to 40 PSIA Repeatability - 24 Hr: $\pm .0008$ PSI; 90 Day: $\pm .0016$ PSI
Accuracy: $\pm (.008\%$ 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 $+120^{\circ}\text{F}$ Dewpoint Repeatability - $\pm .05^{\circ}\text{F}$

Accuracy: $\pm .4^{\circ}\text{F}$ dewpoint, tracable to NBS

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

The Resistance Temperature Detectors are Leeds & Northrup Catalog number 178055

Range: -100 to $+250^{\circ}\text{F}$ Repeatability - $\pm .035\%$ Span

Accuracy: $\pm .07^{\circ}\text{F}$ (32°F and 77°F) $0-120^{\circ}\text{F} = \pm .042^{\circ}\text{F}$

$\pm .10^{\circ}\text{F}$ (at 120°F)

Element: Copper

Resistance: 100 ohms at 77°F

Section IX, Figure 6 shows placement of RTD while Section X, Table 1 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 - $\pm .25\%$ FS

Accuracy: $\pm 0.2\%$, traceable to NBS. $\pm .0125$ ACFM

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

The Data Acquisition Facility is a Leeds and Northrup 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.

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 are calibrated using quadratic curve fits. These calibrated data are then checked for validity. Using the mass plot analysis method, the calibrated verified data are 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 converged 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 both enter 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.

*Instrument Error Analysis

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

Symbols:

FOM = Instrument figure of merit (%/day)

t = Test duration (hr.)

p = Test pressure (PSIA)

P_v = Vapor pressure at test time (PSIA)

T = Cont. weighed average absolute test temp. (°F)

e = Error associated with measurement of change

E = Sensor error (Sensitivity)

Σ = Measurement system error excluding sensor

1. Pressure:

No. of sensor = 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

$$e_p = \pm \frac{\left[(E_p)^2 + (\Sigma_p)^2 \right]^{1/2}}{\text{No. of sensors}^{1/2}} = \pm 0.0019044 \text{ PSIA}$$

2. Vapor Pressure:

No. of sensor = 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*

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

*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 = $\pm .042^{\circ}\text{F}$ or $\pm .042^{\circ}\text{R}$

Measurement System Error = $\pm .15^{\circ}\text{F}$ or $.15^{\circ}\text{R}$

$$e_T = \pm \frac{\left[(.042^{\circ}\text{R})^2 + (.15^{\circ}\text{R})^2 \right]^{\frac{1}{2}}}{52^{\frac{1}{2}}} = \pm .0216013^{\circ}\text{R}$$

4. FOM (Figure of Merit)

$$\begin{aligned} \text{FOM} &= \pm \frac{2400}{t} \left[2 \left(\frac{e_p}{p} \right)^2 + 2 \left(\frac{e_{PV}}{p} \right)^2 + 2 \left(\frac{e_T}{T} \right)^2 \right]^{\frac{1}{2}} \\ &= \pm \frac{2400}{24} \left[2 \left(\frac{.0019044}{29.27} \right)^2 + 2 \left(\frac{.0007378}{29.27} \right)^2 + 2 \left(\frac{.0216013}{536.3} \right)^2 \right]^{\frac{1}{2}} \\ &= \pm .0080566\% \text{ per day} \end{aligned}$$

This FOM value indicates that test instrument repeatability is adequate to provide a precision measurement of maximum allowable leak rate of 0.20%/day.

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

The test method also underwent a required accuracy test at the end of the 24 hour ILRT. It met the Acceptance Criteria (See test result).

CONCLUSION

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

1. McGuire 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. The supplemental test could be achieved in about 6.5 hours.
3. No identified opening in the McGuire Unit 2 Containment vessel exist due to incomplete construction.

ILRT FIGURES

- 1) Pressure vs Time
- 2) Depressurization Path
- 3) Pressurization Path
- 4) Test Instrumentation System
- 5) Sectional View of Containment Vessel
- 6) RTD Locations

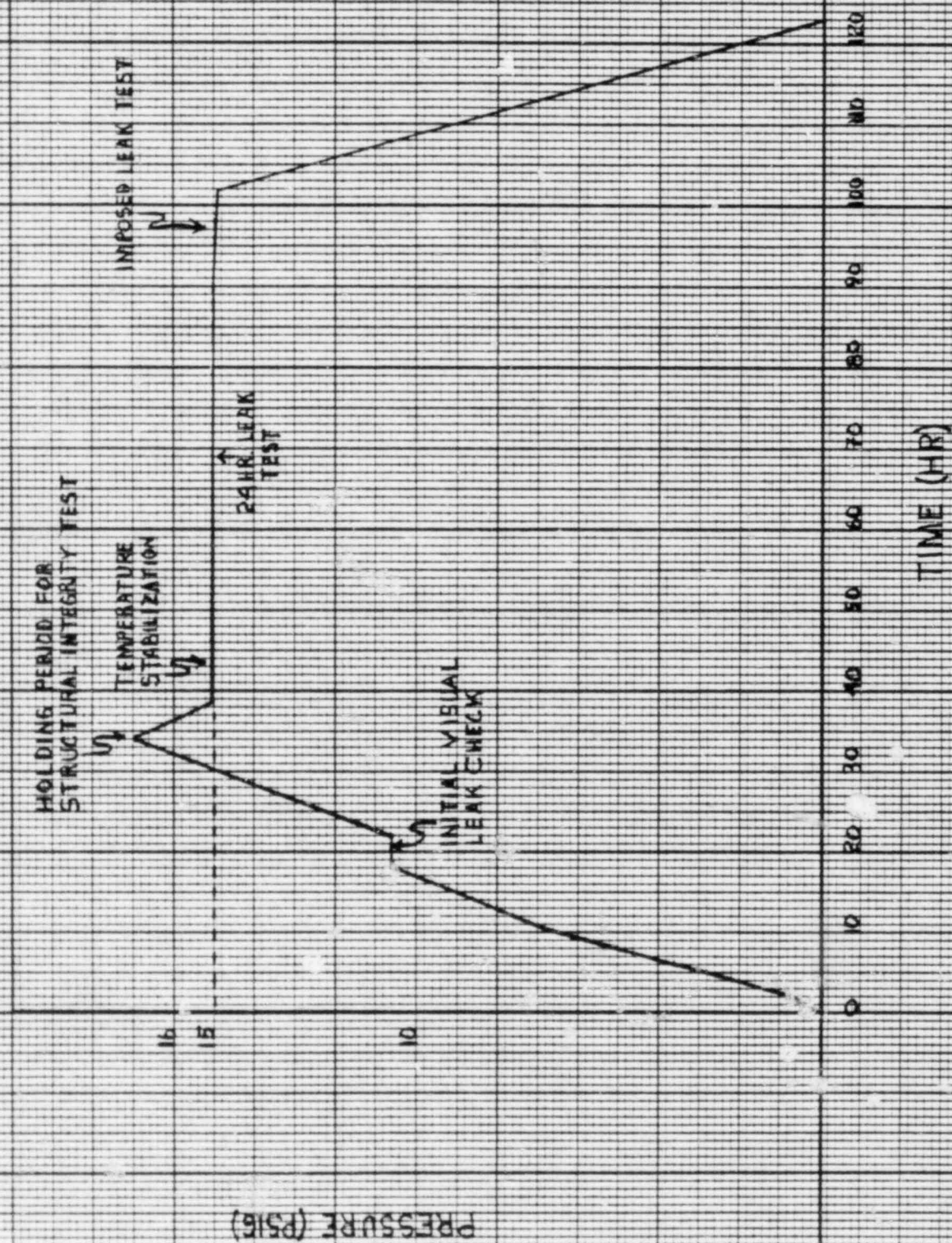
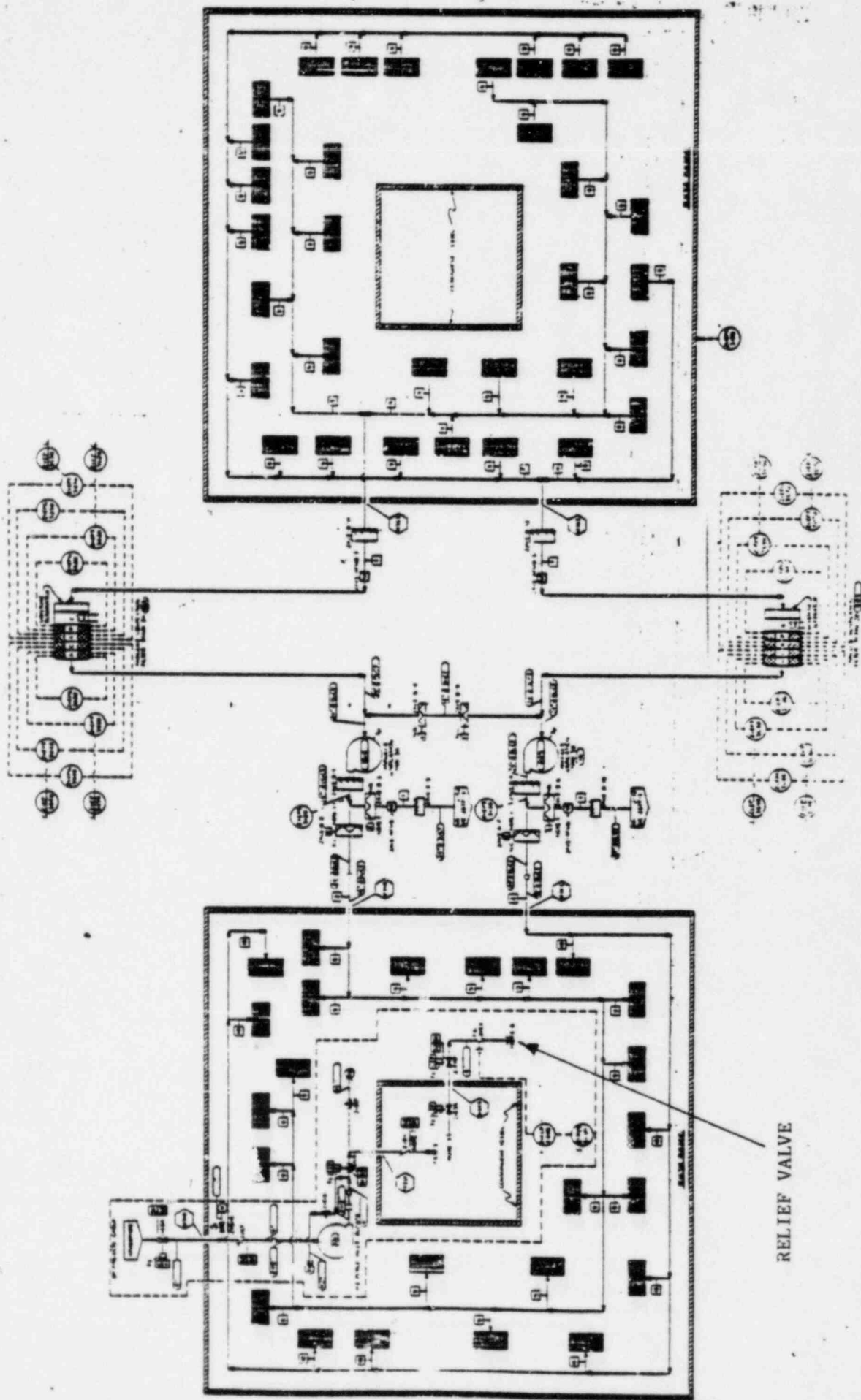
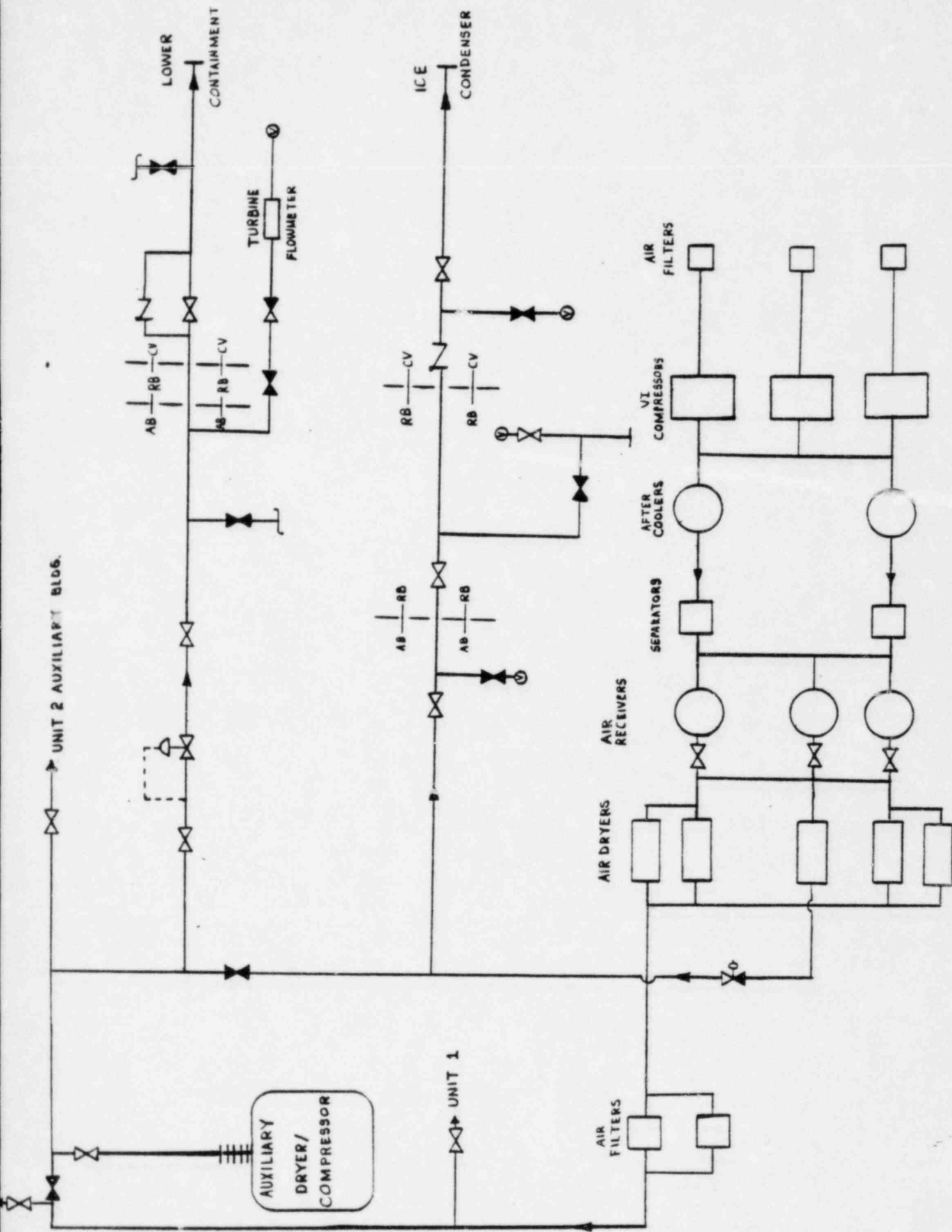
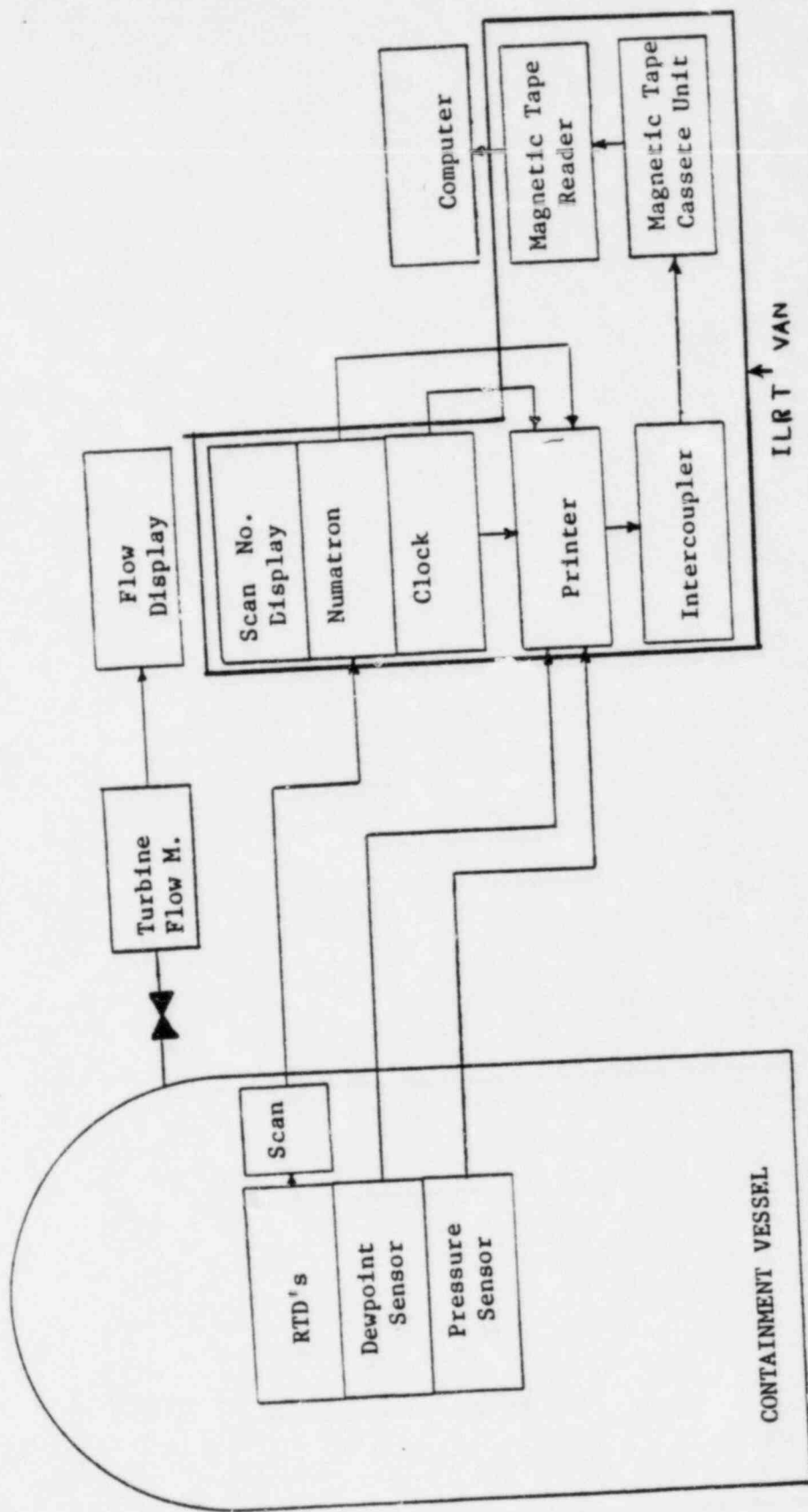


FIGURE #2



UNIT 2 AUXILIARY BLDG.





TEST INSTRUMENTATION SYSTEM

FIGURE 4

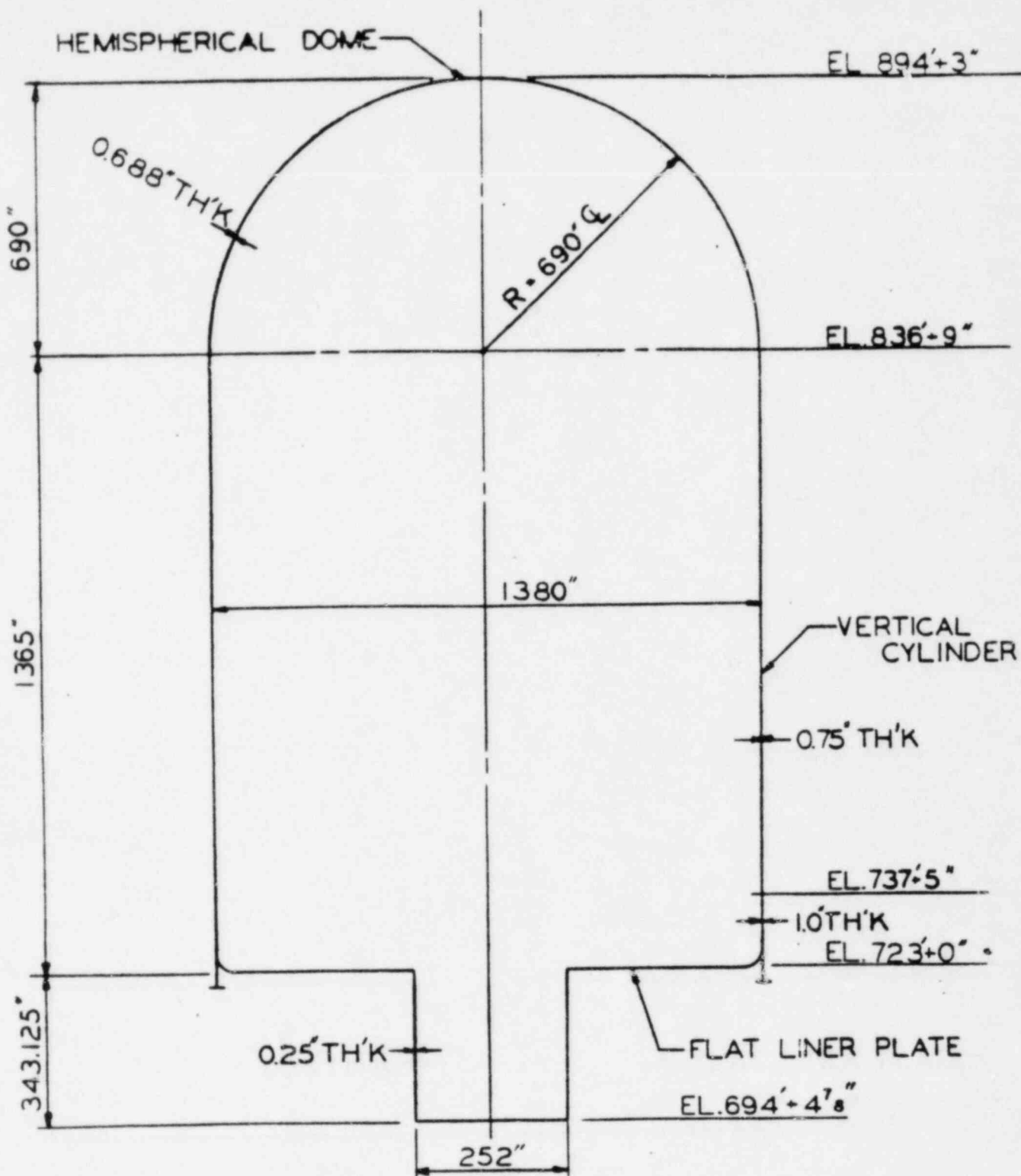


Figure 5
Sectional View of Containment Vessel

Figure 6
RTD LOCATIONS

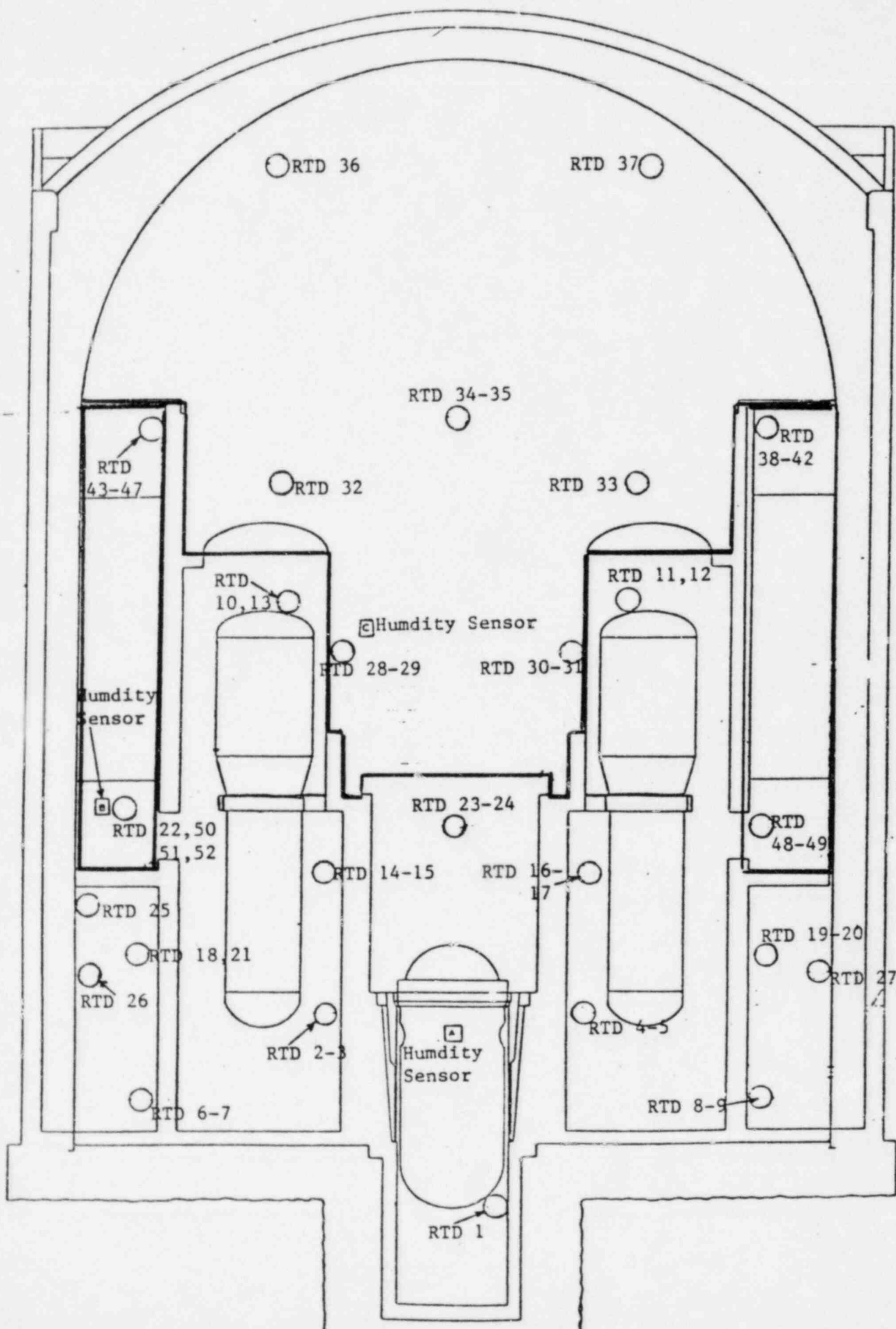


TABLE 1
RTD LOCATIONS

LOWER CONTAINMENT (COMPARTMENT VOLUME FRACTION = .297)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTIONS
1	Wall mounted in incore inst. area	.0417
2	S.G. D lower support structure el. 745'	.0566
3	S.G. A lower support structure el. 745'	.0566
4	S.G. B lower support structure el. 745'	.0566
5	S.G. C lower support structure el. 745'	.0566
6	Wall mounted in tunnel area	.0297
7	Wall mounted in tunnel area	.0297
8	Wall mounted in tunnel area	.0297
9	Wall mounted in tunnel area	.0297
10	On top of S.G. 2D	.0378
11	On top of S.G. 2C	.0378
12	On top of S.G. 2B	.0378
13	On top of S.G. 2A	.0378
14	On top of RC pump 2D	.0377
15	On top of RC pump 2A	.0566
16	On top of RC pump 2B	.0566
17	On top of RC pump 2C	.0377
18	In accumulator room 2D	.0117
19	In accumulator room 2C	.0099
20	In accumulator room 2B	.0112
21	In accumulator room 2A	.0112
22	Wall mounted in room with air return fans	.0345
23	Mounted on ladder support in reactor cavity	.0438

TABLE 1 (Cont.)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTIONS
24	Mounted on ladder support in reactor internals storage area	.0377
25	Column mounted in incore instrumentation area	.0321
26	Column mounted near lower containment vent. Unit 2 D	.0406
27	Column mounted near lower containment vent. Unit 2 B	.0406

UPPER CONTAINMENT (COMPARTMENT VOLUME FRACTION = .541)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTIONS
28	On concrete housing for S.G. 2D	.0763
29	On concrete housing for S.G. 2A	.0763
30	On concrete housing for S.G. 2B	.0763
31	On concrete housing for S.G. 2C	.0763
32	On wall between S.G. 2A & 2 D	.0847
33	On wall between S.G. 2 B & 2 C	.0847
34	On wall below crane track el. 838'	.1356
35	On wall below crane track el. 838'	.1356
36	On cont. spray piping 31'6" west of center el. 875'	.1271
37	On cont. spray piping 31'6" east of center el. 875'	.1271

ICE CONDENSER (COMPARTMENT VOLUME FRACTION = .162)

RTD #	GENERAL LOCATION	COMPARTMENT VOLUME FRACTIONS
38-47	Evenly spaced around the upper plenum area el. 835'	.0557
48-52	Evenly spaced around the lower plenum area el. 773'	.0886

APPENDIX A

DERIVATIONS AND FORMULAS FOR MCGUIRE CONTAINMENT LEAK RATE COMPUTATIONS

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

A.1 DEFINITION OF SYMBOLS

- P = Absolute pressure in the Containment Vessel (PSIA)
 T = Weighted average absolute temperature of the Containment Vessel air compartment ($^{\circ}\text{R}$)
 W_i = Normalized mass of containment vessel air at i^{th} data point (dimension less)
 P_v = Partial pressure of water vapor (PSIA)
 t = time (min.)
 V_k = Assigned volume fraction of k^{th} sensor (Fraction of volume)
 T_k = Recorded temperature of k^{th} sensor ($^{\circ}\text{R}$)
 \hat{W}_i = Estimated value of W_i in the least square fit calculation
 b = Slope of the least square fit line (fraction/min.)
 $L_{\text{OBSRVD}}^{(95\%)}$ = 95% confidence value of L_{OBSRVD}
 L_{OBSRVD} = Measured containment leakage rate (%/day)
 a = y intercept of the least square fit line (dimension less)
 S_W^2 = the variance of W_i
 S_b^2 = the variance of b

A.2 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

A.3 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 0.541, 0.297, 0.162 are the assigned volume fraction for upper, lower, and Ice Compartment.

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

$$W_i = \frac{0.541 \left(\frac{P-P_v}{T} \right)_u^i + 0.297 \left(\frac{P-P_v}{T} \right)_L^i + .162 \left(\frac{P-P_v}{T} \right)_I^i}{0.541 \left(\frac{P-P_v}{T} \right)_u^1 + 0.297 \left(\frac{P-P_v}{T} \right)_L^1 + .162 \left(\frac{P-P_v}{T} \right)_I^1}$$

$$T = \sum k V_k$$

$k = 1$ to 27 for lower compartment

$k = 28$ to 37 for upper compartment

$k = 39$ to 52 for ice condenser

See attached Table 1 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 ($Q = \sum (W_i - \hat{W}_i)^2$) with respect to a and b and minimize them:

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

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

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

$$\frac{\delta \sum (W_i - \hat{W}_i)^2}{\delta a} = 2 \sum (W_i - bt_i - a) = 0$$

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

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

$$\frac{\delta Q}{\delta b} = \frac{\delta \sum (W_i - \hat{W}_i)^2}{\delta b} = 0$$

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

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

$$\frac{\delta \sum (W_i - \hat{W}_i)^2}{\delta b} = 2 \sum t_i (W_i - bt_i - a) = 0$$

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

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

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

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

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

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

$$a = \frac{\begin{matrix} \sum W_i & \sum t_i \\ \sum t_i W_i & \sum t_i^2 \end{matrix}}{\begin{matrix} N & \sum t_i \\ \sum t_i & \sum t_i^2 \end{matrix}} = \frac{\sum W_i \sum t_i^2 - \sum t_i \sum t_i W_i}{N \sum t_i^2 - (\sum t_i)^2} \quad (5)$$

$$L_{\text{OBSRVD}} = -b \text{ 1440000\% per day}$$

(* 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 L_{OBSRVD} 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 indicate how much the calculated leak rate deviated from the true value, and at what probability.

In other words:

$$L_{(TRUE)} = L_{OBSRVD} \pm \text{"Deviation"} \text{ (percent of probability)}$$

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). The value of t is on enclosed Table 2.
- S_b is the standard deviation of the variance of the containment air weight.

Equation (4) indicates that $b = f(W_1)$ and by definition of variance:

$$S_b^2 = \sum \left(\frac{\delta b}{\delta W_1} \right)^2 S_w^2 \quad (5)$$

where S_w^2 is the variance of W_1 :

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

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 N data is recorded:

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

$$\text{let } c = N \sum t_i^2 - (\sum t_i)^2$$

$$\begin{aligned} \frac{\delta b}{\delta W_i} &= \frac{\delta \left(\frac{N \sum t_i W_i - (\sum W_i) (\sum t_i)}{c} \right)}{\delta W_i} \\ &= \frac{1}{c} \delta \left(\frac{N \sum t_i W_i - (\sum W_i) (\sum t_i)}{\delta W_i} \right) \\ &= \frac{1}{c} N t_i - \sum t_i \end{aligned}$$

$$\left(\frac{\delta b}{\delta W_i} \right)^2 = \frac{1}{c^2} [N t_i - \sum t_i]^2 \quad (7)$$

Substitute (7) to (5)

$$\begin{aligned} S_b^2 &= \frac{S_w^2}{c^2} \sum (N t_i - \sum t_i)^2 \\ &= \frac{S_w^2}{c^2} \sum (N^2 t_i^2 - 2 N t_i \sum t_i + (\sum t_i)^2) \\ &= \frac{S_w^2}{c^2} (N^2 \sum t_i^2 - 2 N \sum t_i \sum t_i + N (\sum t_i)^2) \\ &= \frac{S_w^2}{c^2} (N^2 \sum t_i^2 - N (\sum t_i)^2) \quad (8) \end{aligned}$$

Substitute $c = N \sum t_i^2 - (\sum t_i)^2$ to (8):

$$S_b^2 = \frac{N S_w^2}{c} = S_w^2 / \frac{c}{N}$$

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

$$S_b^2 = \frac{S_w^2}{\sum t_i^2 - \frac{\sum t_i^2}{N}}$$

The identity provides:

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

$$S_b^2 = \frac{S_w^2}{\sum t_i^2 - \frac{\sum t_i^2}{N}} = \frac{S_w^2}{\sum (t_i - \bar{t})^2} = \frac{S_w^2}{\sum t_i^2 - \bar{t} \sum t_i} \quad (9)$$

A.4 Summarization:

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

$$W_i = \frac{0.541 \left(\frac{(P-P_v)}{T} \right)_u^i + 0.297 \left(\frac{(P-P_v)}{T} \right)_L^i + .162 \left(\frac{(P-P_v)}{T} \right)_I^i}{0.541 \left(\frac{(P-P_v)}{T} \right)_u^1 + 0.297 \left(\frac{(P-P_v)}{T} \right)_L^1 + .162 \left(\frac{(P-P_v)}{T} \right)_I^1}$$

$$T = \sum T_k V_k$$

$$\hat{W}_i = b t_i + a$$

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

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

$$L_{OBSRVD} = -b$$

$$L_{OBSRVD} (95\%) = L_{OBSRVD} \pm t S_b$$

t value is on enclosed table corresponding to $f = N-2$ and 0.975

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

$$S_b = \left[\frac{S_w^2}{\sum t_i^2 - \bar{t} \sum t_i} \right]^{1/2}$$

TABLE 2 Critical Values for Student's *t*-Distribution*Pr(Student's *t* ≤ tabled value) = γ

<i>t</i>	0.75	0.90	0.95	0.975	0.99	0.995
1	1.0000	1.0777	1.3158	12.7062	31.8207	63.6574
2	0.8163	1.8856	2.9200	4.3027	6.9646	9.9248
3	0.7649	1.6377	2.3534	3.1824	4.5407	5.8409
4	0.7407	1.5332	2.1318	2.7764	3.7469	4.6041
5	0.7267	1.4759	2.0150	2.5706	3.3649	4.0322
6	0.7176	1.4398	1.9432	2.4469	3.1427	3.7074
7	0.7111	1.4149	1.8946	2.3646	2.9980	3.4995
8	0.7064	1.3968	1.8595	2.3060	2.8965	3.3554
9	0.7027	1.3830	1.8331	2.2622	2.8216	3.2498
10	0.6998	1.3722	1.8125	2.2281	2.7638	3.1693
11	0.6974	1.3634	1.7959	2.2010	2.7181	3.1058
12	0.6955	1.3562	1.7823	2.1788	2.6810	3.0545
13	0.6938	1.3502	1.7709	2.1604	2.6503	3.0123
14	0.6924	1.3450	1.7613	2.1448	2.6245	2.9768
15	0.6912	1.3406	1.7531	2.1315	2.6025	2.9467
16	0.6901	1.3368	1.7459	2.1199	2.5835	2.9208
17	0.6892	1.3334	1.7396	2.1098	2.5669	2.8982
18	0.6884	1.3304	1.7341	2.1009	2.5524	2.8784
19	0.6876	1.3277	1.7291	2.0930	2.5395	2.8609
20	0.6870	1.3253	1.7247	2.0860	2.5280	2.8453
21	0.6864	1.3232	1.7207	2.0796	2.5177	2.8314
22	0.6858	1.3212	1.7171	2.0739	2.5083	2.8188
23	0.6853	1.3195	1.7139	2.0687	2.4999	2.8073
24	0.6848	1.3178	1.7109	2.0639	2.4922	2.7969
25	0.6844	1.3163	1.7081	2.0595	2.4851	2.7874
26	0.6840	1.3150	1.7056	2.0555	2.4786	2.7787
27	0.6837	1.3137	1.7033	2.0518	2.4727	2.7707
28	0.6834	1.3125	1.7011	2.0484	2.4671	2.7633
29	0.6830	1.3114	1.6991	2.0452	2.4620	2.7564
30	0.6828	1.3104	1.6973	2.0423	2.4573	2.7500
31	0.6825	1.3095	1.6955	2.0395	2.4528	2.7440
32	0.6822	1.3086	1.6939	2.0369	2.4487	2.7385
33	0.6820	1.3077	1.6924	2.0345	2.4448	2.7333
34	0.6818	1.3070	1.6909	2.0322	2.4411	2.7284
35	0.6816	1.3062	1.6896	2.0301	2.4377	2.7238
36	0.6814	1.3055	1.6883	2.0281	2.4345	2.7195
37	0.6812	1.3049	1.6871	2.0262	2.4314	2.7154
38	0.6810	1.3042	1.6860	2.0244	2.4286	2.7116
39	0.6808	1.3036	1.6849	2.0227	2.4258	2.7079
40	0.6807	1.3031	1.6839	2.0211	2.4233	2.7045
41	0.6805	1.3025	1.6829	2.0195	2.4208	2.7012
42	0.6804	1.3020	1.6820	2.0181	2.4185	2.6981
43	0.6802	1.3016	1.6811	2.0167	2.4163	2.6951
44	0.6801	1.3011	1.6802	2.0154	2.4141	2.6923
45	0.6800	1.3006	1.6794	2.0141	2.4121	2.6896

*D. B. Owen, *Handbook of Statistical Tables*, Addison-Wesley Publishing Co., 1962. (Courtesy Atomic Energy Commission, Washington, D.C.)

TABLE 2 (Continued)

Pr(Student's $t \leq$ tabled value) = γ

t	0.75	0.90	0.95	0.975	0.99	0.995
46	0.6799	1.3002	1.6787	2.0129	2.4102	2.6870
47	0.6797	1.2990	1.6779	2.0117	2.4083	2.6846
48	0.6796	1.2994	1.6772	2.0106	2.4066	2.6822
49	0.6795	1.2991	1.6766	2.0096	2.4049	2.6800
50	0.6794	1.2987	1.6759	2.0086	2.4033	2.6778
51	0.6793	1.2984	1.6753	2.0076	2.4017	2.6757
52	0.6792	1.2980	1.6747	2.0066	2.4002	2.6737
53	0.6791	1.2977	1.6741	2.0057	2.3988	2.6718
54	0.6791	1.2974	1.6736	2.0049	2.3974	2.6700
55	0.6790	1.2971	1.6730	2.0040	2.3961	2.6682
56	0.6789	1.2969	1.6725	2.0032	2.3948	2.6665
57	0.6788	1.2966	1.6720	2.0025	2.3936	2.6649
58	0.6787	1.2963	1.6716	2.0017	2.3924	2.6633
59	0.6787	1.2961	1.6711	2.0010	2.3912	2.6618
60	0.6786	1.2958	1.6706	2.0003	2.3901	2.6603
61	0.6785	1.2956	1.6702	1.9996	2.3890	2.6589
62	0.6785	1.2954	1.6698	1.9990	2.3880	2.6575
63	0.6784	1.2951	1.6694	1.9983	2.3870	2.6561
64	0.6783	1.2949	1.6690	1.9977	2.3860	2.6549
65	0.6783	1.2947	1.6686	1.9971	2.3851	2.6536
66	0.6782	1.2945	1.6683	1.9966	2.3842	2.6524
67	0.6782	1.2943	1.6679	1.9960	2.3833	2.6512
68	0.6781	1.2941	1.6676	1.9955	2.3824	2.6501
69	0.6781	1.2939	1.6672	1.9949	2.3816	2.6490
70	0.6780	1.2938	1.6669	1.9944	2.3808	2.6479
71	0.6780	1.2936	1.6666	1.9939	2.3800	2.6469
72	0.6779	1.2934	1.6663	1.9935	2.3793	2.6459
73	0.6779	1.2933	1.6660	1.9930	2.3785	2.6449
74	0.6778	1.2931	1.6657	1.9925	2.3778	2.6439
75	0.6778	1.2929	1.6654	1.9921	2.3771	2.6430
76	0.6777	1.2928	1.6652	1.9917	2.3764	2.6421
77	0.6777	1.2926	1.6649	1.9913	2.3758	2.6412
78	0.6776	1.2925	1.6646	1.9908	2.3751	2.6403
79	0.6776	1.2924	1.6644	1.9905	2.3745	2.6395
80	0.6776	1.2922	1.6641	1.9901	2.3739	2.6387
81	0.6775	1.2921	1.6639	1.9897	2.3733	2.6379
82	0.6775	1.2920	1.6636	1.9893	2.3727	2.6371
83	0.6775	1.2918	1.6634	1.9890	2.3721	2.6364
84	0.6774	1.2917	1.6632	1.9886	2.3716	2.6356
85	0.6774	1.2916	1.6630	1.9883	2.3710	2.6349
86	0.6774	1.2915	1.6628	1.9879	2.3705	2.6342
87	0.6773	1.2914	1.6626	1.9876	2.3700	2.6335
88	0.6773	1.2912	1.6624	1.9873	2.3695	2.6329
89	0.6773	1.2911	1.6622	1.9870	2.3690	2.6322
90	0.6772	1.2910	1.6620	1.9867	2.3685	2.6316

APPENDIX B

RAW AND PROCESSED DATA

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SECTION I

PROGRAM MODES ARE AS FOLLOWS:

- 1-EDIT INITIALIZATION
- 2-ENTER DATA
- 3-EDIT DATA
- 4-PERFORM CALCULATIONS

- 5-FORMAT REPORTS
- 6-FORMAT PLOTS
- 7-TERMINATE TEST
- 8-END SESSION

(910) ENTER PROGRAM MODE

4

LEAK RATE CALCULATIONS: BEGAN WITH READING 148 AT 8227011600

CALCULATION OPTIONS:

- 1) CHANGE BEGIN TIME
- 2) CALCULATE ALL OUTSTANDING DATA SETS
- 3) CALCULATE SPECIFIC DATA SETS
- 4) LOCK OUT/IN READINGS
- 5) EXIT

(405) ENTER OPTION

1

(406) ENTER TIME OR DATA SET NUMBER FOR INITIAL CALCULATIONS

1

LEAK RATE CALCULATIONS: BEGAN WITH READING 1 AT 822690245

CALCULATION OPTIONS:

- 1) CHANGE BEGIN TIME
- 2) CALCULATE ALL OUTSTANDING DATA SETS
- 3) CALCULATE SPECIFIC DATA SETS
- 4) LOCK OUT/IN READINGS
- 5) EXIT

(405) ENTER OPTION

2

(412) DISPLAY INTERMEDIATE CALCULATIONS, Y OR N?

N

RESULTS OF CONTAINMENT MASS FLOT ANALYSIS(2/DAY)

LOG NO	TIME DAY/HR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
1	822691 245	0.0000000	0.0000000	0.0000000

4	82269: 330	-12.2339030	-0.6835175	10.8668681
5	82269: 345	-2.4124533	-0.6625252	1.0874029
6	82269: 400	-1.3279763	-0.2102203	0.9075357
7	82269: 415	-0.7109029	0.1531111	1.0171250
8	82269: 430	-0.5254386	0.0577109	0.6408605
9	82269: 445	-0.4729915	-0.0378055	0.3973806
10	82269: 500	-0.5080592	-0.1488012	0.2104557
11	82269: 515	-0.3390102	0.0175453	0.3741008
12	82269: 530	-0.3254646	-0.0324867	0.2604913
13	82269: 545	-0.3088900	-0.0651456	0.1785989
14	82269: 600	-0.2286613	-0.0156841	0.1972231
15	82269: 615	-0.1344369	0.0891299	0.3126967
16	82269: 630	-0.0901933	0.1025129	0.2952191
17	82269: 645	-0.0955435	0.0751489	0.2458412
18	82269: 700	-0.0664680	0.0834861	0.2334401
19	82269: 715	-0.0142372	0.1299901	0.2742174
20	82269: 730	-0.0003647	0.1280439	0.2564524
21	82269: 745	0.0063323	0.1216399	0.2369476
22	82269: 815	0.0056566	0.1091078	0.2125589
23	82269: 830	0.0309702	0.1256152	0.2202601
24	82269: 845	0.0410599	0.1266051	0.2121503
25	82269: 900	0.0787772	0.1733841	0.2679909
26	82269: 915	0.1155454	0.2140234	0.3126413
27	82269: 930	0.1377068	0.2301500	0.3225931
28	82269: 945	0.1464092	0.2316271	0.3169850
29	82269: 1000	0.1585426	0.2378309	0.3171193
30	82269: 1015	0.1788879	0.2553875	0.3318872
31	82269: 1030	0.1854289	0.2567143	0.3279998
32	82269: 1045	0.1870142	0.2536984	0.3203827
33	82269: 1100	0.1892669	0.2517569	0.3142469
34	82269: 1115	0.1276290	0.2565547	0.3154804
35	82269: 1130	0.1991380	0.2546086	0.3100792
36	82269: 1145	0.1935746	0.2466871	0.2997995
37	82269: 1200	0.1928542	0.2431706	0.2934871
38	82269: 1215	0.2006820	0.2487212	0.2967603
39	82269: 1230	0.1978081	0.2437004	0.2895926
40	82269: 1245	0.1912768	0.2358049	0.2803329
41	82269: 1300	0.1913381	0.2337119	0.2760858
42	82269: 1315	0.1957352	0.2361463	0.2765573
43	82269: 1330	0.1947215	0.2333531	0.2719847
44	82269: 1345	0.1893795	0.2269799	0.2645302
45	82269: 1400	0.1894151	0.2253631	0.2613111
46	82269: 1415	0.1931996	0.2276618	0.2621240
47	82269: 1430	0.1877395	0.2215008	0.2552622
48	82269: 1445	0.1836727	0.2165290	0.2493853

49	82269: 1500	0.1843098	0.2158144	0.2473191
50	82269: 1515	0.1892786	0.2198783	0.2504780
51	82269: 1530	0.1893536	0.2187642	0.2481749
52	82269: 1545	0.1860219	0.2146886	0.2433553
53	82269: 1600	0.1850076	0.2126782	0.2403488
54	82269: 1615	0.1866736	0.2133154	0.2399573

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

NO	TIME	MINIMUM	OBSERVED	MAXIMUM
	DAY:HR	LEAK RATE	LEAK RATE	LEAK RATE
55	82269: 1630	0.1859694	0.2116987	0.2374279
56	82269: 1645	0.1812620	0.2067344	0.2322069
57	82269: 1700	0.1793441	0.2041046	0.2288651

61	82269:1900	0.172990	0.195354	0.2177198
62	82269:1815	0.174282	0.196414	0.2181147
63	82269:1830	0.1751858	0.1961657	0.2171457
64	82269:1845	0.1727842	0.193327	0.2139412
65	82269:1900	0.1735295	0.1934689	0.2134083
66	82269:1915	0.1761039	0.1955894	0.2150749
67	82269:1930	0.1754671	0.1944145	0.2133618
68	82269:1945	0.172537	0.1910505	0.2098473
69	82269:2000	0.1718719	0.1901491	0.2084263
70	82269:2015	0.1720566	0.1898044	0.2075583
71	82269:2030	0.1719148	0.1890843	0.2063538
72	82269:2045	0.1694475	0.1864921	0.2035508
73	82269:2100	0.1676538	0.1844106	0.2011675
74	82269:2115	0.1670293	0.1833732	0.1997171
75	82269:2130	0.1648229	0.1809702	0.1971175
76	82269:2145	0.1617284	0.1779123	0.1940262
77	82269:2200	0.1590570	0.1750870	0.1911170
78	82269:2215	0.1583173	0.1739850	0.1896527
79	82269:2230	0.1557884	0.1713570	0.1869257
80	82269:2245	0.1516501	0.1674779	0.1833057
81	82269:2300	0.1494723	0.1651407	0.1809090
82	82269:2315	0.1488485	0.1641730	0.1794275
83	82269:2330	0.1461853	0.1615628	0.1767404
84	82269:2345	0.1423363	0.1578282	0.1733213
85	82270: 0	0.1403252	0.1556577	0.1702824
86	82270: 15	0.1407202	0.1558227	0.1706653
87	82270: 30	0.1386678	0.1535092	0.1683507
88	82270: 45	0.1353701	0.1503301	0.1652201
89	82270: 100	0.1340166	0.1487507	0.1634842
90	82270: 115	0.1279225	0.1435361	0.1591497

21	82270: 130	0.1214617	0.1380103	0.1545589
22	82270: 145	0.1172122	0.1340326	0.1508600
23	82270: 200	0.1134526	0.1304355	0.1474113
24	82270: 215	0.1112580	0.1280211	0.1449242
25	82270: 230	0.1066962	0.1254533	0.1422104
26	82270: 245	0.1067624	0.1233487	0.1399350
27	82270: 300	0.1038102	0.1204054	0.1370005
28	82270: 315	0.1016151	0.1180892	0.1345633
29	82270: 330	0.0981676	0.1147523	0.1313511
30	82270: 345	0.0962925	0.1133347	0.1296770
31	82270: 400	0.0969470	0.112706	0.1289942
32	82270: 415	0.0959219	0.1117625	0.1275330
33	82270: 430	0.0941767	0.1098046	0.1254325
34	82270: 445	0.0903884	0.1062532	0.1221179
35	82270: 500	0.0876310	0.1035111	0.1193213
36	82270: 515	0.0954576	0.1012535	0.1170494
37	82270: 530	0.0824708	0.0983327	0.1141945
38	82270: 600	0.0805830	0.0963101	0.1120372

RESULTS OF CONTAMINANT MASS PLOT ANALYSIS(%/DAY)

NO	TIME DAY/YR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
102	82270: 615	0.0792149	0.0951055	0.1105961
110	82270: 630	0.0774684	0.0926781	0.1082879
111	82270: 645	0.0751924	0.0905527	0.1059059
112	82270: 700	0.0743425	0.0894717	0.1045939
113	82270: 715	0.0739240	0.0886982	0.1035725
114	82270: 730	0.0727694	0.0874460	0.1021226
115	82270: 745	0.0701798	0.0840947	0.0996056

118	822701 830	0.0673384	0.0815452	0.0957520
119	822701 845	0.0654800	0.0796158	0.0927516
120	822701 900	0.0640760	0.0780817	0.0920875
121	822701 915	0.0646080	0.0783827	0.0921574
122	822701 930	0.0648240	0.0783693	0.0919145
123	822701 945	0.0643534	0.0776972	0.0910409
124	822701 1000	0.0618352	0.0752539	0.0886725
125	822701 1015	0.0614705	0.0746873	0.0879041
126	822701 1030	0.0629951	0.0760990	0.0892029
127	822701 1045	0.0636358	0.0765406	0.0894454
128	822701 1100	0.0645211	0.0772475	0.0899739
129	822701 1115	0.0666124	0.0793729	0.0921334
130	822701 1130	0.0678709	0.0804988	0.0931266
131	822701 1145	0.0674133	0.0798673	0.0923212
132	822701 1200	0.0668276	0.0791207	0.0914137

133	822701 1215	0.0674384	0.0795550	0.0916716
134	822701 1230	0.0673946	0.0793314	0.0912682
135	822701 1245	0.0664431	0.0782648	0.0900865
136	822701 1300	0.0664087	0.0780575	0.0897062
137	822701 1315	0.0667785	0.0782581	0.0897377
138	822701 1330	0.0668979	0.0782100	0.0895221
139	822701 1345	0.0664860	0.0776524	0.0888188
140	822701 1400	0.0662786	0.0772921	0.0883056
141	822701 1415	0.0662103	0.0777809	0.0886516
142	822701 1430	0.0667368	0.0774597	0.0881826
143	822701 1445	0.0665026	0.0770901	0.0876706
144	822701 1500	0.0663637	0.0768017	0.0872396
145	822701 1515	0.0667298	0.0770261	0.0873225
146	822701 1530	0.0668388	0.0762934	0.0871481
147	822701 1545	0.0665718	0.0765979	0.0866239
148	822701 1600	0.0665204	0.0764125	0.0863047
149	822701 1615	0.0669539	0.0767190	0.0864842
150	822701 1630	0.0674993	0.0771461	0.0867929
151	822701 1645	0.0669665	0.0765128	0.0860591
152	822701 1700	0.0673168	0.0767406	0.0861644
153	822701 1715	0.0680704	0.0774015	0.0867326
154	822701 1730	0.0684033	0.0776182	0.0868310
155	822701 1745	0.0682073	0.0773079	0.0864085
156	822701 1800	0.0684017	0.0773857	0.0863697
157	822701 1815	0.0691686	0.0780728	0.0869771
158	822701 1830	0.0694339	0.0782269	0.0870199
159	822701 1845	0.0693644	0.0780489	0.0867334
160	822701 1900	0.0696114	0.0781886	0.0867658
161	822701 1915	0.0703611	0.0788674	0.0873737
162	822701 1930	0.0707552	0.0791631	0.0875710

NOTE: Readings 148 through 186 include imposed Leak Test

Data which accounts for the increasing leak rate.

See Appendix B, Section II for imposed leak rate data.

RESULTS OF CONTAINMENT MASS PLOT ANALYSIS(%/DAY)

RDG NO	TIME DAY:HR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
163	822701 1945	0.0711449	0.0794562	0.0877676
164	822701 2000	0.0717657	0.0799992	0.0882328
165	822701 2015	0.0725306	0.0807045	0.0888784
166	822701 2030	0.0729805	0.0810665	0.0891525
167	822701 2045	0.0735397	0.0815479	0.0895560
168	822701 2100	0.0740003	0.0819249	0.0898494
169	822701 2115	0.0750227	0.0829400	0.0908572
170	822701 2128	0.0754703	0.0833058	0.0911414
171	822701 2145	0.0763832	0.0841943	0.0920053
172	822701 2100	0.0774770	0.0850000	0.0931110

175	8227012245	0.0202364	0.0888551	0.0267737
176	8227012300	0.0320138	0.0892417	0.0978695
177	8227012315	0.0833212	0.0913179	0.0993145
178	8227012330	0.0841197	0.0920742	0.1000288
179	8227012345	0.0348406	0.0927439	0.1006472
180	82271: 0	0.0657193	0.0935960	0.1014728
181	82271: 15	0.0870698	0.0950331	0.1029965
182	82271: 30	0.0882093	0.0961987	0.1041880
183	82271: 45	0.0893110	0.0973172	0.1053234
184	82271: 100	0.0903214	0.0983251	0.1063282
185	82271: 115	0.0913952	0.0994104	0.1074256
186	82271: 130	0.0923782	0.1003864	0.1083946

CALCULATION OPTIONS:

- 1) CHANGE BEGIN TIME
- 2) CALCULATE ALL OUTSTANDING DATA SETS
- 3) CALCULATE SPECIFIC DATA SETS
- 4) LOCK OUT/IN READINGS
- 5) EXIT

(405) ENTER OPTION

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PROGRAM MODES ARE AS FOLLOWS:

- 1-EDIT INITIALIZATION
- 2-ENTER DATA
- 3-EDIT DATA
- 4-PERFORM CALCULATIONS
- 5-FORMAT REPORTS
- 6-FORMAT PLOTS
- 7-TERMINATE TEST
- 8-END SESSION

(210) ENTER PROGRAM MODE

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REPORT OPTIONS:

- 1) TERMINAL
- 2) LINEPRINTER
- 3) EXIT

(501) ENTER OPTION

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REPORT SELECTIONS:

- 1) MASS PLOT ANALYSIS
- 2) LEAK RATE ANALYSIS
- 3) NORMALIZED AIR WEIGHTS
- 4) TEMP-VAP-PRESS
- 5) INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST
- 6) INITIALIZATION DATA
- 7) READINGS: RAW AND CALIBRATED
- 8) DATA VERIFICATION: TREND TEST, COMPARE TEST
- 9) CALCULATED AIR WEIGHTS

0.09633/DAY LEAF RATE TARGETED AFTER 1000 READING

LEAF RATE: 0.09633/DAY LEAF RATE TARGETED AFTER 1000 READING

NO	TIME	WINDSPEED	EXP. WIND	NO. LEAF RATE	LEAF RATE
09	022701	615	0.09633	0.09633	0.09633
10	022701	615	0.09633	0.09633	0.09633
11	022701	615	0.09633	0.09633	0.09633
12	022701	615	0.09633	0.09633	0.09633
13	022701	615	0.09633	0.09633	0.09633
14	022701	615	0.09633	0.09633	0.09633
15	022701	615	0.09633	0.09633	0.09633
16	022701	615	0.09633	0.09633	0.09633
17	022701	615	0.09633	0.09633	0.09633
18	022701	615	0.09633	0.09633	0.09633
19	022701	615	0.09633	0.09633	0.09633
20	022701	615	0.09633	0.09633	0.09633
21	022701	615	0.09633	0.09633	0.09633
22	022701	615	0.09633	0.09633	0.09633
23	022701	615	0.09633	0.09633	0.09633
24	022701	615	0.09633	0.09633	0.09633
25	022701	615	0.09633	0.09633	0.09633
26	022701	615	0.09633	0.09633	0.09633
27	022701	615	0.09633	0.09633	0.09633
28	022701	615	0.09633	0.09633	0.09633
29	022701	615	0.09633	0.09633	0.09633
30	022701	615	0.09633	0.09633	0.09633
31	022701	615	0.09633	0.09633	0.09633
32	022701	615	0.09633	0.09633	0.09633
33	022701	615	0.09633	0.09633	0.09633
34	022701	615	0.09633	0.09633	0.09633
35	022701	615	0.09633	0.09633	0.09633
36	022701	615	0.09633	0.09633	0.09633
37	022701	615	0.09633	0.09633	0.09633
38	022701	615	0.09633	0.09633	0.09633
39	022701	615	0.09633	0.09633	0.09633
40	022701	615	0.09633	0.09633	0.09633
41	022701	615	0.09633	0.09633	0.09633
42	022701	615	0.09633	0.09633	0.09633
43	022701	615	0.09633	0.09633	0.09633
44	022701	615	0.09633	0.09633	0.09633
45	022701	615	0.09633	0.09633	0.09633
46	022701	615	0.09633	0.09633	0.09633
47	022701	615	0.09633	0.09633	0.09633
48	022701	615	0.09633	0.09633	0.09633
49	022701	615	0.09633	0.09633	0.09633
50	022701	615	0.09633	0.09633	0.09633
51	022701	615	0.09633	0.09633	0.09633
52	022701	615	0.09633	0.09633	0.09633
53	022701	615	0.09633	0.09633	0.09633
54	022701	615	0.09633	0.09633	0.09633
55	022701	615	0.09633	0.09633	0.09633
56	022701	615	0.09633	0.09633	0.09633
57	022701	615	0.09633	0.09633	0.09633
58	022701	615	0.09633	0.09633	0.09633
59	022701	615	0.09633	0.09633	0.09633
60	022701	615	0.09633	0.09633	0.09633

3
CENTER SPAN OF READINGS - 1.3

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LEAK RATE NORMALIZED AIR WEIGHTS

RID	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER-CONTAINMENT 29.7% BLDG VOLUME	UPPER-CONTAINMENT 54.1% BLDG VOLUME	ICE CONDENSER 16.2% BLDG VOLUME
1	82269: 245	0	1.0000000	1.0000000	1.0000000	1.0000000
2	82269: 300	15	0.9998042	1.0002945	0.9999953	0.9984386
3	82269: 315	30	0.9997113	1.0003733	1.0002645	0.9969923
4	82269: 330	45	0.9999465	1.0001525	1.0000624	0.9992669
5	82269: 345	60	0.9999553	1.0000178	0.9998119	1.0002817
6	82269: 400	75	0.9997913	1.0000645	0.9999049	0.9990094
7	82269: 415	90	0.9996426	1.0002067	0.9999929	0.9976847
8	82269: 430	105	0.9998456	1.0000042	0.9999613	0.9992442
9	82269: 445	120	0.9999093	0.9998471	0.9998700	1.0001270
10	82269: 500	135	1.0000169	0.9992272	1.0003527	0.9990535
11	82269: 515	150	0.9996070	1.0000435	0.9999526	0.9978707
12	82269: 530	165	0.9999277	0.9997415	1.0001862	0.9994645
13	82269: 545	180	0.9999413	0.9997452	0.9999795	1.0001478
14	82269: 600	195	0.9997295	0.9998099	1.0000573	0.9986263
15	82269: 615	210	0.9994623	0.9999237	1.0001479	0.9966775
16	82269: 630	225	0.9996811	0.9998090	0.9999870	0.9983618
17	82269: 645	240	0.9998419	0.9997787	0.9992047	0.9997586
18	82269: 700	255	0.9996901	0.9999492	0.9999630	0.9984575
19	82269: 715	270	0.9994399	1.0000217	0.9999413	0.9970051
20	82269: 730	285	0.9996590	0.9992263	0.9999867	0.9982517
21	82269: 745	300	0.9996819	0.9998661	0.9999208	0.9986977
22	82269: 815	330	0.9997129	1.0000321	1.0001385	0.9979305
23	82269: 830	345	0.9994863	0.9996659	0.9994370	0.9984206
24	82269: 845	360	0.9995776	0.9998706	0.9996091	0.9990066

25	82269: 900	375	0.9990843	0.9992213	0.9995199	0.9975719
26	82269: 915	390	0.9990085	0.9994720	0.9998318	0.9958117
27	82269: 930	405	0.9991795	0.9997816	0.9995446	0.9979245
28	82269: 945	420	0.9993037	0.9991677	0.9995073	0.9989215
29	82269: 1000	435	0.9992079	0.9994032	0.9994542	0.9975659
30	82269: 1015	450	0.9989945	0.9994258	0.9996457	0.9963049
31	82269: 1030	465	0.9991750	0.9992257	0.9996449	0.9976990
32	82269: 1045	480	0.9992222	0.9991163	0.9995223	0.9985046
33	82269: 1100	495	0.9991853	0.9993591	0.9995911	0.9976990
34	82269: 1115	510	0.9990281	0.9993794	0.9996678	0.9965589
35	82269: 1130	525	0.9991305	0.9991978	0.9995753	0.9977013
36	82269: 1145	540	0.9992486	0.9991437	0.9995440	0.9985435
37	82269: 1200	555	0.9991459	0.9993161	0.9996913	0.9972612
38	82269: 1215	570	0.9993017	0.9993777	0.9997656	0.9955640
39	82269: 1230	585	0.9991395	0.9992914	0.9996046	0.9975127
40	82269: 1245	600	0.9992164	0.9991200	0.9995299	0.9984435
41	82269: 1300	615	0.9990516	0.9992117	0.9995683	0.9972535
42	82269: 1315	630	0.9988943	0.9992708	0.9996662	0.9959919
43	82269: 1330	645	0.9990308	0.9991350	0.9995331	0.9973649
44	82269: 1345	660	0.9991424	0.9991684	0.9994395	0.9982192
45	82269: 1400	675	0.9989769	0.9991526	0.9995341	0.9970382
46	82269: 1415	690	0.9988133	0.9992429	0.9995910	0.9958100
47	82269: 1430	705	0.9991110	0.9992364	0.9995834	0.9975057
48	82269: 1445	720	0.9990694	0.9991707	0.9993521	0.9980663
49	82269: 1500	735	0.9990000			

52	82269:1545	780	0.9987794	0.9990955	0.9993216	0.9977760
53	82269:1600	795	0.9988763	0.9994550	0.9993223	0.9966111
54	82269:1615	810	0.9987286	0.9993028	0.9995314	0.9954124
55	82269:1630	825	0.9988235	0.9991686	0.9992945	0.9968643
56	82269:1645	840	0.9989965	0.9990516	0.9994039	0.9976983
57	82269:1700	855	0.9988697	0.9992094	0.9994729	0.9965274
58	82269:1715	870	0.9987091	0.9993190	0.9996139	0.9950323
59	82269:1730	885	0.9988232	0.9990873	0.9993192	0.9969217
60	82269:1745	900	0.9989376	0.9990730	0.9992763	0.9977124
61	82269:1800	915	0.9989267	0.9992525	0.9993827	0.9964841
62	82269:1815	930	0.9985870	0.9992867	0.9994200	0.9949764
63	82269:1830	945	0.9986549	0.9991154	0.9991008	0.9965822
64	82269:1845	960	0.9988187	0.9991271	0.9991786	0.9972490
65	82269:1900	975	0.9986007	0.9991413	0.9991335	0.9961400
66	82269:1915	990	0.9984253	0.9992351	0.9991790	0.9948706
67	82269:1930	1005	0.9986507	0.9991181	0.9990996	0.9965581
68	82269:1945	1020	0.9988167	0.9990701	0.9991382	0.9974506
69	82269:2000	1035	0.9986143	0.9991973	0.9991110	0.9961916
70	82269:2015	1050	0.9985532	0.9992115	0.9994036	0.9949586
71	82269:2030	1065	0.9985693	0.9989662	0.9990051	0.9966298
72	82269:2045	1080	0.9987248	0.9989676	0.9990894	0.9972472

73	82269:2100	1095	0.9986781	0.9995611	0.9990356	0.9961788
74	82269:2115	1110	0.9985735	0.9996298	0.9993068	0.9945635
75	82269:2130	1125	0.9986972	0.9995535	0.9990204	0.9963437
76	82269:2145	1140	0.9987635	0.9994983	0.9988738	0.9972391
77	82269:2200	1155	0.9987450	0.9996026	0.9991225	0.9962272
78	82269:2215	1170	0.9985654	0.9996974	0.9991764	0.9949089
79	82269:2230	1185	0.9987231	0.9995310	0.9990247	0.9962722
80	82269:2245	1200	0.9988671	0.9995827	0.9990297	0.9972188
81	82269:2300	1215	0.9987046	0.9996219	0.9990912	0.9960612
82	82269:2315	1230	0.9985458	0.9996220	0.9992800	0.9946146
83	82269:2330	1245	0.9987471	0.9994848	0.9991329	0.9964011
84	82269:2345	1260	0.9988679	0.9995790	0.9990783	0.9970851
85	82270: 0	1275	0.9986972	0.9995714	0.9991170	0.9960321
86	82270: 15	1290	0.9984154	0.9996588	0.9991253	0.9942838
87	82270: 30	1305	0.9986927	0.9994642	0.9991383	0.9961141
88	82270: 45	1320	0.9988312	0.9995015	0.9991223	0.9968758
89	82270: 100	1335	0.9986231	0.9995056	0.9990186	0.9960121
90	82270: 115	1350	0.9991370	1.0009307	0.9996095	0.9948129
91	82270: 130	1365	0.9992158	1.0008549	0.9994000	0.9959987
92	82270: 145	1380	0.9990234	0.9996362	0.9993942	0.9962222
93	82270: 200	1395	0.9989919	0.9997745	0.9996448	0.9957805
94	82270: 215	1410	0.9988186	0.9999262	0.9996733	0.9944721
95	82270: 230	1425	0.9988744	0.9996363	0.9994226	0.9960070
96	82270: 245	1440	0.9988015	1.0002735	0.9987097	0.9966754
97	82270: 300	1455	0.9989474	1.0004520	0.9992626	0.9955610
98	82270: 315	1470	0.9988592	0.9996644	1.0000632	0.9939746
99	82270: 330	1485	0.9990439	0.9995022	0.9999378	0.9956466
100	82270: 345	1500	0.9987336	0.9989523	0.9993901	0.9964309
101	82270: 400	1515	0.9985478	0.9990862	0.9992829	0.9954906
102	82270: 415	1530	0.9986932	0.9998090	0.9996112	0.9941525
103	82270: 430	1545	0.9988331	0.9996207	0.9994405	0.9957482
104	82270: 445	1560	0.9991432	0.9996601	0.9997323	0.9965539
105	82270: 500	1575	0.9990148	0.9997989	0.9997984	0.9954134
106	82270: 515	1590	0.9989388	1.0001321	0.9999262	0.9940640
107	82270: 530	1605	0.9990856	0.9992234	0.9997388	0.9957832
108	82270: 600	1635	0.9989077	1.0000643	0.9994457	0.9954277
109	82270: 615	1650	0.9987541	1.0002352	0.9995626	0.9939421
110	82270: 630	1665	0.9989707	1.0000020	0.9995540	0.9955604
111	82270: 645	1680	0.9990078	0.9998101	0.9994298	0.9964491

1115	822701: 745	1740	0.9991047	0.9992674	0.9997424	0.9962976
116	822701: 800	1755	0.9990514	0.9998752	0.9992042	0.9951801
117	822701: 815	1770	0.9985315	0.999275	0.9994953	0.9938412
118	822701: 830	1785	0.9987602	0.999269	0.9993161	0.9956934
119	822701: 845	1800	0.9990066	0.999402	0.9995505	0.9963609
120	822701: 900	1815	0.9989239	0.9997586	0.9997033	0.9952523
121	822701: 915	1830	0.9984695	0.9993968	0.9995392	0.9936545
122	822701: 930	1845	0.9985387	0.9991823	0.9992569	0.9953545
123	822701: 945	1860	0.9987036	0.9991475	0.9993211	0.9961491
124	822701: 1000	1875	0.9991771	0.9994124	1.0004860	0.9949124
125	822701: 1015	1890	0.9986919	0.9997074	0.9997130	0.9940092
126	822701: 1030	1905	0.9981457	0.9995339	0.9983382	0.9953129
127	822701: 1045	1920	0.9983910	0.9994933	0.9985589	0.9960976
128	822701: 1100	1935	0.9983016	0.9996438	0.9985897	0.9952605
129	822701: 1115	1950	0.9978732	0.9994977	0.9983270	0.9938805
130	822701: 1130	1965	0.9981301	0.9994005	0.9984478	0.9951181
131	822701: 1145	1980	0.9986316	0.9989592	0.9993067	0.9960958
132	822701: 1200	1995	0.9986662	0.9990620	0.9997412	0.9948370
133	822701: 1215	2010	0.9983042	0.9991574	0.9994506	0.9935181
134	822701: 1230	2025	0.9984266	0.9992032	0.9994107	0.9951233
135	822701: 1245	2040	0.9987594	0.9990593	0.9996298	0.9957997
136	822701: 1300	2055	0.9984821	0.9993585	0.9991853	0.9950083
137	822701: 1315	2070	0.9983503	0.9993946	0.9992894	0.9938639
138	822701: 1330	2085	0.9984221	0.9991833	0.9990957	0.9951841
139	822701: 1345	2100	0.9985864	0.9992507	0.9990928	0.9960024
140	822701: 1400	2115	0.9985190	0.9993830	0.9992969	0.9948043
141	822701: 1415	2130	0.9982213	0.9993961	0.9991349	0.9935979
142	822701: 1430	2145	0.9984913	0.9992593	0.9991135	0.9953945
143	822701: 1445	2160	0.9985054	0.9991805	0.9990143	0.9958963
144	822701: 1500	2175	0.9984735	0.9992470	0.9993119	0.9947270
145	822701: 1515	2190	0.9982813	0.9992884	0.9994329	0.9932251
146	822701: 1530	2205	0.9983658	0.9990530	0.9991901	0.9948011
147	822701: 1545	2220	0.9984953	0.9990723	0.9991170	0.9957115

REPORT SELECTIONS:

- 1) MASS PLOT ANALYSIS
- 2) LEAK RATE ANALYSIS
- 3) NORMALIZED AIR WEIGHTS
- 4) TEMP-VAP-PRESS
- 5) INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST
- 6) INITIALIZATION DATA
- 7) READINGS: RAW AND CALIBRATED
- 8) DATA VERIFICATION: TREND TEST, COMPARE TEST
- 9) CALCULATED AIR WEIGHTS

(503)ENTER SELECTION OR ZERO

4

(504)ENTER SPAN OF READINGS - 1..J

1..147

WEIGHTED COMPARTMENT AVERAGES BY READING

LOWER-CONTAINMENT		UPPER-CONTAINMENT		ICE-CONDENSER	
REQ	AVG TEMP VAP PSIA	AVG PSIA	AVG TEMP VAP PSIA	AVG TEMP VAP PSIA	AVG PSIA
1	5.6 171	0.1466	0.1466	0.1466	0.1466

4	86.095	0.1470	29.3560	87.137	0.1120	29.3460	28.266	0.0168	29.3700
5	86.111	0.1481	29.3540	87.196	0.1121	29.3420	27.771	0.0168	29.3700
6	86.109	0.1479	29.3550	87.216	0.1113	29.3450	29.376	0.0167	29.3690
7	86.105	0.1469	29.3580	87.203	0.1124	29.3480	29.058	0.0167	29.3710
8	86.055	0.1485	29.3510	87.167	0.1113	29.3440	28.193	0.0168	29.3650
9	86.073	0.1491	29.3480	87.143	0.1113	29.3400	27.714	0.0168	29.3620
10	86.127	0.1479	29.3540	86.963	0.1117	29.3450	28.321	0.0168	29.3670
11	86.120	0.1479	29.3550	87.150	0.1114	29.3430	28.934	0.0167	29.3690
12	86.134	0.1490	29.3480	86.911	0.1114	29.3370	28.039	0.0167	29.3620
13	86.105	0.1484	29.3460	87.076	0.1106	29.3390	27.673	0.0166	29.3600
14	86.094	0.1501	29.3490	87.002	0.1123	29.3390	28.482	0.0166	29.3640
15	86.081	0.1515	29.3530	86.982	0.1117	29.3400	29.469	0.0167	29.3660
16	86.046	0.1517	29.3480	87.131	0.1114	29.3400	28.315	0.0167	29.3610
17	86.014	0.1513	29.3450	87.117	0.1116	29.3400	27.843	0.0168	29.3590
18	86.000	0.1520	29.3500	87.147	0.1113	29.3430	29.544	0.0168	29.3630
19	85.992	0.1524	29.3520	87.140	0.1113	29.3420	29.288	0.0169	29.3650
20	85.990	0.1512	29.3480	87.094	0.1114	29.3410	28.575	0.0170	29.3590
21	85.972	0.1520	29.3460	87.116	0.1111	29.3370	28.241	0.0170	29.3600
22	85.977	0.1519	29.3510	87.131	0.1100	29.3460	28.839	0.0166	29.3630
23	85.952	0.1507	29.3440	87.010	0.1222	29.3370	28.526	0.0150	29.3590
24	85.935	0.1518	29.3440	87.028	0.1210	29.3360	28.168	0.0153	29.3550
25	85.918	0.1767	29.3490	87.005	0.1309	29.3420	28.992	0.0140	29.3610
26	85.934	0.1695	29.3500	86.925	0.1260	29.3420	29.874	0.0139	29.3620
27	85.880	0.1710	29.3430	87.005	0.1261	29.3380	28.732	0.0142	29.3560
28	85.870	0.1718	29.3400	86.981	0.1265	29.3360	28.224	0.0145	29.3550
29	85.858	0.1706	29.3450	87.003	0.1260	29.3410	28.935	0.0146	29.3580
30	85.850	0.1723	29.3470	86.998	0.1265	29.3410	29.567	0.0148	29.3590
31	85.839	0.1728	29.3410	86.977	0.1257	29.3390	28.831	0.0150	29.3560
32	85.831	0.1734	29.3380	86.972	0.1256	29.3350	28.386	0.0150	29.3530
33	85.822	0.1728	29.3440	86.996	0.1263	29.3390	28.828	0.0151	29.3560
34	85.807	0.1750	29.3460	86.983	0.1257	29.3400	29.421	0.0151	29.3580
35	85.798	0.1748	29.3400	86.965	0.1254	29.3360	28.759	0.0152	29.3520
36	85.782	0.1753	29.3380	86.945	0.1244	29.3330	28.314	0.0152	29.3500
37	85.770	0.1759	29.3430	86.956	0.1245	29.3380	29.028	0.0153	29.3550
38	85.751	0.1751	29.3430	86.947	0.1248	29.3400	29.892	0.0151	29.3570
39	85.721	0.1752	29.3390	86.905	0.1247	29.3330	28.834	0.0152	29.3510
40	85.714	0.1776	29.3360	86.907	0.1248	29.3310	28.327	0.0153	29.3480
41	85.709	0.1772	29.3380	86.926	0.1246	29.3330	28.975	0.0153	29.3520
42	85.705	0.1776	29.3400	86.910	0.1246	29.3350	29.613	0.0153	29.3530
43	85.706	0.1774	29.3360	86.905	0.1238	29.3300	28.856	0.0153	29.3480
44	85.695	0.1772	29.3360	86.907	0.1245	29.3280	28.420	0.0153	29.3470
45	85.698	0.1785	29.3370	86.924	0.1247	29.3320	29.065	0.0153	29.3510

46	85.713	0.1780	29.3400	86.930	0.1248	29.3340	29.652	0.0153	29.3500
47	85.697	0.1731	29.3340	86.900	0.1246	29.3320	28.803	0.0153	29.3490
48	85.696	0.1751	29.3340	86.907	0.1310	29.3320	28.461	0.0153	29.3450
49	85.692	0.1759	29.3390	86.921	0.1317	29.3330	29.119	0.0153	29.3500
50	85.692	0.1752	29.3390	86.923	0.1316	29.3370	30.025	0.0154	29.3530
51	85.672	0.1742	29.3330	86.898	0.1317	29.3310	29.051	0.0154	29.3470
52	85.659	0.1762	29.3310	86.892	0.1307	29.3300	28.549	0.0156	29.3420
53	85.648	0.1763	29.3410	86.884	0.1301	29.3290	29.203	0.0156	29.3470
54	85.645	0.1769	29.3370	86.885	0.1309	29.3360	29.841	0.0156	29.3500
55	85.651	0.1775	29.3340	86.846	0.1299	29.3260	29.077	0.0157	29.3440
56	85.640	0.1765	29.3290	86.827	0.1308	29.3290	28.601	0.0158	29.3430
57	85.639	0.1780	29.3350	86.839	0.1291	29.3300	29.242	0.0157	29.3470
58	85.617	0.1770	29.3360	86.809	0.1296	29.3330	30.012	0.0156	29.3490
59	85.596	0.1788	29.3300	86.803	0.1303	29.3250	29.000	0.0156	29.3440
60	85.583	0.1790	29.3290	86.835	0.1301	29.3250	28.579	0.0157	29.3420
61	85.582	0.1784	29.3340	86.804	0.1306	29.3270	29.247	0.0157	29.3460
62	85.585	0.1786	29.3350	86.771	0.1303	29.3260	29.988	0.0157	29.3460
63	85.542	0.1809	29.3300	86.888	0.1294	29.3220	29.132	0.0157	29.3420
64	85.537	0.1804	29.3300	86.888	0.1294	29.3220	29.132	0.0157	29.3420

67	85.491	0.1806	29.3270	86.842	0.1308	29.3210	22.093	0.0158	29.3390
5 68	85.472	0.1810	29.3250	86.841	0.1308	29.3220	29.602	0.0160	29.3360
69	85.473	0.1832	29.3310	86.842	0.1315	29.3220	29.269	0.0160	29.3390
70	85.457	0.1831	29.3310	86.841	0.1315	29.3230	29.224	0.0160	29.3420
71	85.455	0.1839	29.3240	86.826	0.1315	29.3180	29.002	0.0161	29.3360
6 72	85.432	0.1841	29.3230	86.811	0.1319	29.3200	29.665	0.0161	29.3340
73	85.427	0.1700	29.3260	86.814	0.1312	29.3180	29.289	0.0161	29.3400
74	85.431	0.1668	29.3270	86.786	0.1318	29.3250	30.066	0.0162	29.3390
75	85.412	0.1671	29.3220	86.784	0.1312	29.3160	29.090	0.0162	29.3330
7 76	85.401	0.1673	29.3200	86.794	0.1320	29.3130	28.634	0.0163	29.3320
77	85.390	0.1668	29.3220	86.782	0.1304	29.3180	29.179	0.0163	29.3350
78	85.375	0.1668	29.3240	86.777	0.1321	29.3210	29.844	0.0163	29.3360
79	85.376	0.1671	29.3200	86.762	0.1313	29.3170	29.073	0.0164	29.3300
8 80	85.352	0.1674	29.3200	86.755	0.1315	29.3150	29.611	0.0162	29.3300
81	85.355	0.1671	29.3210	86.757	0.1316	29.3170	29.264	0.0161	29.3350
82	85.342	0.1678	29.3210	86.728	0.1316	29.3210	29.959	0.0161	29.3540
83	85.336	0.1681	29.3170	86.711	0.1309	29.3150	28.998	0.0161	29.3290
7 84	85.322	0.1681	29.3190	86.708	0.1306	29.3130	28.612	0.0161	29.3260
85	85.327	0.1681	29.3190	86.699	0.1310	29.3140	29.244	0.0162	29.3330
86	85.313	0.1683	29.3210	86.699	0.1307	29.3140	30.103	0.0162	29.3330
87	85.296	0.1682	29.3150	86.679	0.1314	29.3140	29.120	0.0162	29.3280
88	85.282	0.1675	29.3140	86.649	0.1305	29.3110	28.672	0.0163	29.3240
89	85.280	0.1695	29.3160	86.641	0.1302	29.3090	29.186	0.0163	29.3290
90	85.274	0.1293	29.3170	86.653	0.1171	29.3120	29.809	0.0163	29.3310
21	85.261	0.1282	29.3130	86.657	0.1162	29.3060	22.021	0.0163	29.3230
92	85.260	0.1618	29.3110	86.617	0.1173	29.3040	28.638	0.0163	29.3230
93	85.248	0.1604	29.3130	86.630	0.1173	29.3120	29.265	0.0163	29.3270
24	85.238	0.1615	29.3180	86.582	0.1166	29.3100	29.239	0.0163	29.3290
95	85.222	0.1628	29.3100	86.603	0.1162	29.3030	29.038	0.0163	29.3200
96	85.270	0.1407	29.3090	86.584	0.1370	29.3020	28.742	0.0164	29.3220
27	85.255	0.1323	29.3120	86.362	0.1363	29.3060	29.339	0.0164	29.3250
98	85.253	0.1634	29.3130	86.338	0.1196	29.3110	30.136	0.0164	29.3260
99	85.236	0.1640	29.3080	86.340	0.1192	29.3070	29.213	0.0164	29.3200
100	85.226	0.1786	29.3060	86.286	0.1331	29.3020	28.811	0.0164	29.3190
101	85.204	0.1788	29.3070	86.363	0.1321	29.3020	29.282	0.0164	29.3200
102	85.215	0.1581	29.3100	86.307	0.1275	29.3040	29.930	0.0164	29.3190
103	85.197	0.1586	29.3040	86.276	0.1281	29.2990	29.111	0.0165	29.3170
104	85.185	0.1561	29.3020	86.295	0.1176	29.2970	28.666	0.0165	29.3140
105	85.172	0.1568	29.3060	86.281	0.1184	29.2990	29.309	0.0165	29.3190
106	85.154	0.1500	29.3080	86.268	0.1184	29.3020	29.974	0.0164	29.3190
107	85.147	0.1504	29.3020	86.259	0.1173	29.2950	29.045	0.0165	29.3140
108	85.084	0.1507	29.3030	86.411	0.1217	29.2990	29.253	0.0165	29.3160
109	85.078	0.1490	29.3060	86.419	0.1209	29.3020	30.001	0.0164	29.3170
110	85.058	0.1499	29.2990	86.374	0.1186	29.2970	29.103	0.0165	29.3110
111	85.035	0.1507	29.2930	86.344	0.1188	29.2920	28.634	0.0165	29.3090
112	85.042	0.1677	29.2980	86.375	0.1165	29.2940	29.129	0.0167	29.3100
113	85.023	0.1649	29.2990	86.348	0.1161	29.2980	29.779	0.0167	29.3130
114	85.016	0.1664	29.2970	86.339	0.1164	29.2920	29.040	0.0168	29.3090
115	84.992	0.1582	29.2940	86.302	0.1129	29.2930	28.655	0.0167	29.3060
116	84.992	0.1571	29.2990	86.315	0.1125	29.2980	29.271	0.0167	29.3100
117	84.986	0.1589	29.2990	86.302	0.1231	29.2960	29.922	0.0167	29.3100
118	84.974	0.1590	29.2930	86.262	0.1235	29.2890	28.940	0.0167	29.3050
119	84.963	0.1575	29.2910	86.271	0.1142	29.2870	28.541	0.0167	29.3010
120	84.955	0.1575	29.2940	86.265	0.1130	29.2900	29.184	0.0167	29.3070
121	84.947	0.1708	29.2960	86.239	0.1228	29.2950	29.970	0.0167	29.3070
122	84.936	0.1707	29.2890	86.209	0.1220	29.2830	29.050	0.0168	29.3020
123	84.911	0.1707	29.2870	86.175	0.1220	29.2830	28.610	0.0168	29.2990
124	84.926	0.1604	29.2890	85.772	0.1136	29.2870	29.278	0.0161	29.3020
125	84.877	0.1602	29.2910	86.181	0.1153	29.2890	29.271	0.0164	29.3040
126	84.882	0.1600	29.2840	86.139	0.1536	29.2840	29.014	0.0161	29.2960
127	84.876	0.1600	29.2840	86.139	0.1536	29.2840	29.014	0.0161	29.2960

130	84.865	0.1598	29.2810	86.062	0.1545	29.2840	29.051	0.0166	29.2950
131	84.849	0.1755	29.2830	86.093	0.1268	29.2830	29.552	0.0168	29.2940
132	84.829	0.1738	29.2870	85.903	0.1263	29.2850	29.236	0.0168	29.2980
133	84.823	0.1741	29.2860	86.105	0.1269	29.2880	29.936	0.0169	29.3010
134	84.831	0.1761	29.2810	86.064	0.1253	29.2830	29.027	0.0169	29.2940
135	84.889	0.1674	29.2800	85.744	0.1280	29.2750	28.716	0.0169	29.2920
136	84.810	0.1659	29.2830	86.073	0.1264	29.2780	29.101	0.0169	29.2950
137	84.811	0.1664	29.2840	86.056	0.1273	29.2810	29.713	0.0170	29.2980
138	84.715	0.1673	29.2780	86.035	0.1281	29.2750	29.962	0.0170	29.2920
139	84.771	0.1661	29.2780	86.030	0.1274	29.2740	28.544	0.0170	29.2910
140	84.786	0.1655	29.2820	86.013	0.1264	29.2780	29.217	0.0169	29.2960
141	84.758	0.1666	29.2820	86.025	0.1274	29.2750	29.829	0.0169	29.2970

142	84.751	0.1670	29.2780	85.992	0.1268	29.2720	28.860	0.0169	29.2920
143	84.757	0.1659	29.2750	85.967	0.1271	29.2680	28.547	0.0170	29.2880
144	84.774	0.1671	29.2790	85.838	0.1263	29.2690	29.204	0.0170	29.2930
145	84.763	0.1675	29.2800	85.835	0.1259	29.2720	29.977	0.0170	29.2950
146	84.743	0.1674	29.2720	85.826	0.1275	29.2660	29.034	0.0170	29.2850
147	84.734	0.1673	29.2720	85.811	0.1264	29.2620	28.620	0.0170	29.2870

REPORT SELECTIONS:

- 1) MASS FLOT ANALYSIS
- 2) LEAK RATE ANALYSIS
- 3) NORMALIZED AIR WEIGHTS
- 4) TEMP-VAP-PRESS
- 5) INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST
- 6) INITIALIZATION DATA
- 7) READINGS: RAW AND CALIBRATED
- 8) DATA VERIFICATION: TREND TEST, COMPARE TEST
- 9) CALCULATED AIR WEIGHTS

(503)ENTER SELECTION OR ZERO

5

(504)ENTER SPAN OF READINGS - 1,1

1.147

(508)ENTER NUMBER OF POINTS (MAX 6)

6

%FOR-F-LISIO.SYN, list-directed I/O syntax error

unit 5 file SYS\$COMMAND:

user PC 0000CDC3

%TRACE-E-BADEXE, failure to open image file _DRA1:[PROD,LRT]LRTEST.EXE:3

%TRACE-F-STACKDUMP, non-symbolic stack dump follows

module name	routine name	line	relative PC	absolute PC
-------------	--------------	------	-------------	-------------

			0001E877	0001E877
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			0001E7B4	0001E7B4
--	--	--	----------	----------

			0001D520	0001D520
--	--	--	----------	----------

			0000CDC3	0000CDC3
--	--	--	----------	----------

			000090FB	000090FB
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%AIS-F-FORLOGOUT System Forced Production User Logout

LR17320 logged out at 29-SEP-1982 15:39:17.62

Username: LR17320

Password:

Welcome to VAX/VMS Version V2.5 on node _MCC01

88

PEAK RATE INITIALIZATION

LOWER-CONTAINMENT

29 INSTRUMENT POINTS, 29.7% BLDG VOLUME

BANK-PI	VOL	TR	A(X**2)	B(X)	C
101	0.0117	2	0.2800E-04	0.99516	0.06624
102	0.0566	2	0.3810E-04	0.99450	0.06913
103	0.0566	2	0.3080E-04	0.99508	0.06597
104	0.0566	2	0.3010E-04	0.99451	0.12874
105	0.0566	2	0.2810E-04	0.99579	0.15540
106	0.0297	2	0.1840E-04	0.99777	-0.02740
107	0.0297	2	0.1140E-04	0.98800	0.32075
108	0.0297	2	0.1810E-04	0.99736	-0.02379
109	0.0297	2	0.2570E-04	0.99628	0.03263
11	0.0378	2	0.2000E-06	1.00042	-0.08368
201	0.0378	2	0.4570E-04	0.99634	0.08019
202	0.0378	2	0.9640E-04	0.98331	0.58374
203	0.0378	2	0.3180E-04	0.99687	0.00462
204	0.0377	2	0.3070E-04	0.99529	0.04925
205	0.0566	2	0.2060E-04	0.99686	0.04937
206	0.0566	2	-0.8260E-04	1.01212	-0.33334
207	0.0377	2	-0.1005E-03	1.01519	-0.45387
208	0.0117	2	0.2350E-04	0.99699	-0.03754
209	0.0093	2	3.2050E-04	0.99665	0.03625
210	0.0112	2	0.2650E-04	0.99600	0.09880
301	0.0112	2	0.3610E-04	0.99451	0.12879
302	0.0345	2	0.3700E-04	0.99596	0.06138
303	0.0438	2	-0.6920E-03	1.01179	-0.38682
304	0.0377	2	0.2300E-04	0.99616	0.00947
305	0.0321	2	-0.4120E-04	1.00628	-0.16860
306	0.0406	2	0.3110E-04	0.99612	0.04194
307	0.0406	2	0.4160E-04	0.99436	0.26719
701	1.0000	4	0.0000E+00	1.00000	0.00000
706	1.0000	3	0.0000E+00	1.00000	0.00000

UPPER-CONTAINMENT

12 INSTRUMENT POINTS, 54.1% BLDG VOLUME

BANK-PI	VOL	TR	A(X**2)	B(X)	C
308	0.0763	2	0.9890E-04	0.98609	0.28422
309	0.0763	2	0.3990E-04	0.99463	0.13177
310	0.0763	2	0.2990E-04	0.99629	0.02397
401	0.0763	2	0.2310E-04	0.99636	0.03282
402	0.0647	2	0.3050E-04	0.99467	0.11932
403	0.0647	2	0.3220E-04	0.99718	0.05097
404	0.1356	2	0.4140E-04	0.99394	0.23134
505	0.1356	2	-0.9520E-04	1.01553	-0.56084
506	0.1271	2	0.2550E-04	0.99566	0.04795
407	0.1271	2	0.2050E-04	0.99665	0.01632
702	1.0000	4	0.0000E+00	1.00000	0.00000
705	1.0000	3	0.0000E+00	1.00000	0.00000

ICE-CONDENSER

17 INSTRUMENT POINTS, 16.2% BLDG VOLUME

BANK-PI	VOL	TR	A(X**2)	B(X)	C
408	0.0557	2	-0.5780E-04	1.00518	0.01355
409	0.0557	2	0.2600E-04	0.99603	0.15122

PEAK RATE INITIALIZATION					
410	0.0557	2	0.5562E-03	0.91611	2.22692
501	0.0557	2	0.2060E-04	0.99686	0.10917
502	0.0557	2	0.3330E-04	0.99459	0.21858
503	0.0557	2	0.3810E-04	0.99339	0.15242
504	0.0557	2	0.2460E-04	0.99821	0.10199
505	0.0557	2	0.2179E-04	0.99975	0.14945
506	0.0557	2	0.1230E-04	0.99759	0.19380
507	0.0557	2	0.2310E-04	0.99637	0.09259
508	0.0886	2	0.2550E-04	0.99566	0.08279
509	0.0886	2	0.2370E-04	0.99741	0.02860
510	0.0886	2	0.2570E-04	0.99608	0.04024
601	0.0886	2	0.2680E-04	0.99641	0.00555
602	0.0886	2	0.8780E-04	0.98576	0.33400
701	1.0000	4	0.0000E+00	1.00000	0.00000
704	1.0000	3	0.0000E+00	1.00000	0.00000

NOTE: This page has intentionally been omitted.

(514)RAW(R) OR CALIMATED(C) DATA?

R

LEAK RATE INSTRUMENT RAW DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
1 READING AT 822691 245										
BANK 1	76.890	84.340	84.320	84.370	84.080	85.580	86.120	82.950	86.550	95.580
BANK 2	95.230	93.270	93.700	95.250	84.820	85.390	84.530	86.480	85.930	87.560
BANK 3	85.440	83.410	86.860	85.070	86.730	85.800	85.880	88.360	87.450	87.680
BANK 4	88.330	87.310	87.490	87.000	86.810	86.500	86.690	29.280	31.040	29.120
BANK 5	33.610	26.970	31.130	25.230	22.220	26.430	32.060	27.010	25.980	25.230
BANK 6	25.220	26.100	140.120	150.920	152.590	156.790	159.600	162.540	165.070	167.220
BANK 7	29.369	29.347	29.355	-1.640	37.890	44.820	0.012	0.011	0.011	0.011
2 READING AT 822691 300										
BANK 1	76.890	84.330	84.280	84.390	84.070	85.570	86.040	82.940	86.560	95.560
BANK 2	95.240	93.270	93.700	95.240	84.820	85.400	84.410	86.470	85.930	87.570
BANK 3	85.410	83.420	86.720	85.050	86.770	85.790	85.910	88.350	87.370	87.640
BANK 4	88.430	87.370	87.490	87.000	86.820	86.590	86.620	29.970	31.520	29.600
BANK 5	34.550	28.010	35.250	25.380	36.950	27.560	31.670	26.970	25.960	25.180
BANK 6	25.060	26.040	204.830	208.210	212.160	215.820	215.750	217.220	219.390	220.340
BANK 7	29.376	29.348	29.363	-1.620	37.970	44.860	0.012	0.011	0.011	0.011
3 READING AT 822691 315										
BANK 1	76.820	84.230	84.240	84.270	84.010	85.520	86.050	82.880	86.500	95.440
BANK 2	95.160	93.120	93.630	95.880	84.830	85.330	84.420	86.480	85.870	87.500
BANK 3	85.370	83.370	86.620	84.270	86.730	85.760	85.820	89.290	87.340	87.600
BANK 4	88.410	87.260	87.320	86.240	86.750	86.540	86.630	30.650	33.250	29.690
BANK 5	37.440	28.640	38.320	25.800	40.620	28.300	31.900	26.940	25.910	25.140
BANK 6	24.940	25.980	126.030	202.620	204.950	207.190	210.470	210.530	212.910	212.910
BANK 7	29.379	29.352	29.362	-1.680	37.820	44.860	0.012	0.011	0.011	0.011
4 READING AT 822691 330										
BANK 1	76.840	84.210	84.240	84.220	84.000	85.510	85.910	82.890	86.500	95.410
BANK 2	95.160	93.220	93.620	95.880	84.840	85.300	84.470	86.420	85.860	87.570
BANK 3	85.390	83.370	86.650	85.010	86.710	85.710	85.900	89.300	87.360	87.570
BANK 4	88.230	87.210	87.390	86.920	86.760	86.650	86.620	30.050	31.660	29.380
BANK 5	34.400	27.890	32.920	26.030	30.650	27.320	31.740	26.940	25.890	25.150
BANK 6	24.940	25.900	182.320	190.210	192.940	194.420	195.700	196.750	196.010	198.670
BANK 7	29.370	29.346	29.356	-1.830	37.880	44.930	0.012	0.011	0.011	0.011
5 READING AT 822691 345										
BANK 1	76.860	84.250	84.320	84.280	84.020	85.540	86.020	82.910	86.550	95.430
BANK 2	95.120	93.220	93.650	95.860	84.850	85.280	84.540	86.420	85.890	87.570
BANK 3	85.410	83.380	86.560	85.010	86.750	85.760	85.890	88.350	87.390	87.620
BANK 4	88.310	87.360	87.440	86.940	86.810	86.720	86.670	29.870	31.010	29.160
BANK 5	33.430	27.090	30.190	25.530	28.850	26.330	31.620	26.230	25.860	25.150
BANK 6	24.960	25.900	142.490	151.530	153.910	156.300	158.940	159.070	159.430	160.510
BANK 7	29.370	29.342	29.354	-1.860	37.910	45.170	0.012	0.011	0.011	0.011
6 READING AT 822691 400										
BANK 1	76.860	84.260	84.270	84.280	84.010	85.510	85.980	82.930	86.570	95.410
BANK 2	95.180	93.230	93.660	95.200	84.820	85.340	84.510	86.450	85.210	87.540
BANK 3	85.410	83.370	86.660	84.280	86.710	85.760	85.790	88.390	87.420	87.560
BANK 4	88.430	87.410	87.510	86.920	86.800	86.750	86.680	29.910	32.010	29.360

7 READING AT 822691 415

BANK 1	76.860	84.270	84.260	84.220	83.980	85.510	85.890	82.900	86.560	95.440
BANK 2	95.190	93.210	93.650	85.890	84.850	85.390	84.430	86.450	85.890	87.460
BANK 3	85.390	83.380	86.610	84.980	86.690	85.760	85.910	88.380	87.390	87.500
BANK 4	88.380	87.390	87.510	86.960	86.780	86.740	86.680	29.710	34.400	29.370
BANK 5	36.130	26.720	38.360	26.120	35.950	27.720	31.880	26.830	25.790	25.100
BANK 6	24.970	26.090	205.700	216.030	220.620	224.960	228.380	232.580	234.600	238.570
BANK 7	29.371	29.348	29.358	-1.920	37.990	44.910	0.012	0.011	0.011	0.011

8 READING AT 822691 430

BANK 1	76.830	84.200	84.190	84.240	83.970	85.470	85.800	82.850	86.530	95.640
BANK 2	95.130	93.230	93.610	85.840	84.830	85.230	84.360	86.330	85.840	87.550
BANK 3	85.330	83.340	86.480	84.900	86.670	85.720	85.790	88.340	87.380	87.510
BANK 4	88.300	87.330	87.470	86.910	86.790	86.680	86.630	30.290	31.340	29.130
BANK 5	34.920	26.960	33.810	25.770	30.610	26.730	32.160	26.790	25.770	25.130
BANK 6	24.800	25.700	201.020	206.480	206.640	207.410	208.120	208.040	208.160	208.590
BANK 7	29.365	29.344	29.351	-1.810	37.730	45.190	0.012	0.011	0.011	0.011

9 READING AT 822691 445

BANK 1	76.820	84.160	84.180	84.220	83.910	85.440	86.400	82.850	86.530	95.800
BANK 2	95.130	93.160	93.630	85.820	84.750	85.220	84.420	86.350	85.830	87.470
BANK 3	85.340	83.350	86.750	84.930	86.700	85.710	85.660	88.290	87.370	87.560
BANK 4	88.230	87.380	87.440	86.920	86.720	86.600	86.620	30.110	30.570	29.040
BANK 5	33.560	26.820	30.570	25.420	29.720	26.140	31.500	26.790	25.830	25.110
BANK 6	25.000	25.860	178.820	187.370	194.030	197.840	202.450	204.420	207.660	210.670
BANK 7	29.362	29.340	29.348	-1.890	37.720	45.300	0.011	0.011	0.010	0.010

10 READING AT 822691 500

BANK 1	76.840	84.150	84.180	84.270	83.930	85.470	86.730	82.860	86.540	96.000
BANK 2	95.140	93.210	93.670	85.840	84.780	85.220	84.360	86.360	85.840	87.540
BANK 3	85.340	83.340	87.170	84.960	86.690	85.740	85.790	88.340	87.410	87.630
BANK 4	88.230	87.290	87.440	86.930	86.740	85.120	86.620	29.380	33.090	28.900
BANK 5	34.800	26.440	35.950	25.800	31.000	26.640	30.790	26.780	25.830	25.080
BANK 6	25.230	26.040	152.580	165.900	173.770	180.940	188.400	194.470	199.300	207.160
BANK 7	29.367	29.345	29.354	-1.890	37.830	45.080	0.012	0.011	0.011	0.011

11 READING AT 822691 515

BANK 1	76.860	84.110	84.180	84.220	83.920	85.460	86.650	82.850	86.540	96.190
BANK 2	95.120	93.200	93.690	85.830	84.820	85.230	84.330	86.330	85.850	87.440
BANK 3	85.370	83.340	87.080	84.960	86.680	85.730	85.760	88.320	87.310	87.590
BANK 4	88.230	87.320	87.470	86.930	86.710	96.640	86.660	28.850	35.780	28.620
BANK 5	35.760	26.810	38.660	26.110	34.800	27.280	31.620	26.760	25.810	25.030
BANK 6	25.140	25.920	140.700	156.750	163.270	170.350	177.000	184.010	188.880	192.800
BANK 7	29.369	29.343	29.355	-1.970	37.760	45.080	0.011	0.011	0.010	0.010

12 READING AT 822691 530

BANK 1	76.870	84.120	84.160	84.210	83.910	85.460	86.800	82.840	86.530	96.280
BANK 2	95.120	93.210	93.710	85.810	84.760	85.340	84.350	86.290	85.850	87.470
BANK 3	85.340	83.320	87.240	84.950	86.700	85.700	85.740	88.320	87.390	87.610
BANK 4	88.170	87.300	87.470	86.900	86.710	84.810	86.630	26.780	31.850	28.510
BANK 5	34.590	26.910	32.860	25.450	29.770	26.710	32.040	26.760	25.770	25.030
BANK 6	25.450	26.090	194.760	210.500	220.890	225.000	236.400	242.300	250.300	257.250
BANK 7	29.362	29.337	29.348	-2.010	37.750	45.270	0.012	0.011	0.011	0.011

13 READING AT 822691 545

BANK 1	76.870	84.090	84.190	84.170	83.880	85.450	86.630	82.830	86.530	96.340
BANK 2	95.110	93.210	93.710	85.810	84.780	85.210	84.310	86.320	85.830	87.430
BANK 3	85.350	83.310	87.080	84.970	86.650	85.670	85.740	88.310	87.370	87.550
BANK 4	88.200	87.360	87.470	86.930	86.760	96.620	86.630	29.210	30.850	28.990

14 READING AT 822691 600

BANK 1	76,860	84,110	84,170	84,170	83,890	85,430	86,500	82,830	86,520	96,340
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BANK 2	95,100	93,200	93,720	85,790	84,740	85,200	84,400	86,280	85,920	87,430
BANK 3	85,330	83,290	87,040	84,860	86,680	85,690	85,640	88,330	87,320	87,590
BANK 4	88,230	87,310	87,420	86,930	86,700	85,540	86,630	29,780	31,080	29,410
BANK 5	33,600	28,020	34,610	25,290	35,970	27,220	31,500	26,710	25,690	24,960
BANK 6	25,130	25,290	165,190	183,160	192,230	198,890	204,860	211,590	218,750	225,260
BANK 7	29,364	29,339	29,349	-2,040	37,960	45,470	0,012	0,011	0,011	0,011

15 READING AT 822691 615

BANK 1	76,870	84,080	84,170	84,150	83,870	85,410	86,430	82,820	86,510	96,320
BANK 2	95,080	93,200	93,710	85,780	84,740	85,160	84,350	86,270	85,810	87,390
BANK 3	85,340	83,300	87,010	84,860	86,700	85,670	85,690	88,300	87,360	87,560
BANK 4	83,220	87,320	87,410	86,920	86,710	85,410	86,620	30,600	33,300	29,700
BANK 5	37,850	28,440	38,410	28,260	40,130	28,190	31,930	26,700	25,660	24,950
BANK 6	25,040	25,270	205,260	218,580	225,830	230,090	237,530	242,240	251,190	257,100
BANK 7	29,366	29,340	29,353	-1,980	37,830	45,710	0,011	0,011	0,011	0,010

16 READING AT 822691 630

BANK 1	76,850	84,080	84,160	84,120	83,870	85,400	86,200	82,720	86,500	96,270
BANK 2	95,090	93,150	93,720	85,780	84,710	85,190	84,460	86,170	85,830	87,340
BANK 3	85,310	83,290	86,720	84,840	86,650	85,590	85,580	88,260	87,250	87,570
BANK 4	88,270	87,410	87,420	86,990	86,660	86,540	86,630	30,260	31,670	22,470
BANK 5	35,070	28,370	33,080	26,530	30,310	27,490	31,870	26,710	25,660	25,040
BANK 6	24,920	25,740	148,070	157,520	163,140	168,870	169,630	171,340	178,630	178,510
BANK 7	29,361	29,340	29,348	-1,920	37,750	45,750	0,011	0,011	0,011	0,010

17 READING AT 822691 645

BANK 1	76,840	84,070	84,140	84,140	83,850	85,380	85,900	82,760	86,490	96,280
BANK 2	95,070	93,120	93,620	85,730	84,720	85,120	84,320	86,180	85,820	87,320
BANK 3	85,300	83,280	86,530	84,840	86,660	85,640	85,560	88,290	87,330	87,510
BANK 4	88,220	87,250	87,420	86,910	86,710	86,580	86,620	30,150	31,280	22,540
BANK 5	33,180	27,660	30,150	26,180	28,870	26,820	31,200	26,710	25,640	25,110
BANK 6	24,940	25,550	133,950	142,560	148,050	151,400	154,950	154,390	156,680	158,650
BANK 7	29,359	29,340	29,345	-1,800	37,800	45,680	0,011	0,010	0,010	0,010

18 READING AT 822691 700

BANK 1	76,840	84,030	84,140	84,120	83,820	85,380	85,840	82,780	86,480	96,230
BANK 2	95,050	93,160	93,700	85,740	84,710	85,130	84,280	86,280	85,800	87,370
BANK 3	85,300	83,240	86,430	84,780	86,660	85,630	85,650	88,310	87,380	87,560
BANK 4	88,310	87,350	87,410	86,920	86,700	86,610	86,640	30,350	32,100	22,790
BANK 5	34,700	27,330	35,590	26,280	33,780	27,520	31,030	26,720	25,660	25,130
BANK 6	24,860	25,570	139,820	149,580	153,210	156,090	158,220	160,320	161,540	165,270
BANK 7	29,363	29,343	29,350	-1,800	37,730	45,610	0,011	0,010	0,010	0,010

19 READING AT 822691 715

BANK 1	76,860	83,990	84,110	84,140	83,920	85,370	85,840	82,750	86,480	96,200
BANK 2	95,040	93,120	93,690	85,700	84,710	85,160	84,260	86,340	85,790	87,450
BANK 3	85,270	83,250	86,440	84,760	86,650	85,630	85,580	88,260	87,300	87,510
BANK 4	88,340	87,390	87,420	86,930	86,740	86,570	86,630	30,280	34,650	29,920

BANK 5	36,620	27,510	39,920	26,770	36,570	28,520	31,620	26,690	25,700	25,170
BANK 6	24,860	25,590	178,970	184,580	189,090	190,460	191,620	193,230	196,800	196,800
BANK 7	29,365	29,342	29,352	-1,730	37,730	45,870	0,011	0,010	0,010	0,010

20 READING AT 822691 730

BANK 1	76,860	83,990	84,130	84,070	83,800	85,370	85,930	82,770	86,470	96,140
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BANK 4	88.150	87.270	87.410	86.890	86.700	86.520	86.610	30.830	31.890	29.820
BANK 5	35.430	27.820	34.420	26.820	31.000	27.610	32.630	26.710	25.730	25.230
BANK 6	25.110	25.520	145.330	155.910	152.630	161.250	164.670	165.850	167.000	172.280
BANK 7	29.359	22.341	22.348	-1.600	37.760	45.670	9.011	9.010	0.010	0.010

21 READING AT 822691 745

BANK 1	76.909	83.970	84.120	84.090	83.790	85.360	85.900	82.750	86.470	96.140
BANK 2	95.020	93.130	93.660	85.720	84.660	85.040	84.230	86.200	85.800	87.300
BANK 3	85.260	83.230	86.430	84.760	86.590	85.580	85.700	88.220	87.330	37.540
BANK 4	86.210	87.260	87.440	86.910	86.720	86.560	86.630	30.850	31.250	29.750
BANK 5	34.290	27.690	32.660	26.560	29.780	27.370	32.070	26.750	25.760	25.240
BANK 6	25.070	25.580	247.660	256.240	258.590	258.590	258.590	258.590	258.590	258.580
BANK 7	29.360	29.337	29.346	-1.600	37.690	45.800	0.011	0.010	0.010	0.010

22 READING AT 822691 815

BANK 1	76.860	83.990	84.110	84.120	83.790	85.350	85.760	82.740	86.470	96.090
BANK 2	95.010	93.140	93.660	85.720	84.670	85.130	84.290	86.280	85.830	87.360
BANK 3	85.280	83.230	86.440	84.740	86.630	85.620	85.640	88.230	87.290	87.580
BANK 4	88.220	87.310	87.480	86.870	86.700	86.660	86.640	30.150	34.060	29.680
BANK 5	35.630	27.470	37.270	26.850	32.210	27.860	31.540	22.770	25.810	25.270
BANK 6	25.140	25.610	166.060	175.020	179.650	181.180	186.450	185.380	187.990	188.520
BANK 7	29.363	29.346	29.351	-4.440	37.440	45.780	0.012	0.011	0.011	0.011

23 READING AT 822691 830

BANK 1	76.880	83.930	84.080	83.980	83.740	85.320	86.240	82.720	86.440	96.000
BANK 2	94.990	93.130	93.620	85.660	84.620	85.030	84.310	86.200	85.800	87.290
BANK 3	85.230	83.200	86.780	84.670	86.600	85.510	85.620	88.230	87.260	87.480
BANK 4	89.320	87.340	87.400	86.860	86.720	85.800	86.590	29.760	32.590	29.410
BANK 5	35.330	28.000	33.120	26.710	30.360	27.860	33.180	26.760	25.840	25.340
BANK 6	25.340	25.800	220.450	235.330	243.910	253.230	258.670	258.670	258.670	258.670
BANK 7	29.359	29.337	29.344	-3.960	40.110	45.570	0.011	0.010	0.010	0.010

24 READING AT 822691 845

BANK 1	76.890	83.930	84.070	84.000	83.730	85.310	86.010	82.720	86.440	95.260
BANK 2	94.990	93.120	93.610	85.660	84.620	85.060	84.200	86.310	85.810	87.310
BANK 3	85.220	83.190	86.950	84.690	86.590	85.500	85.530	88.180	87.260	87.520
BANK 4	88.100	87.290	87.430	86.870	86.730	86.070	86.590	30.170	31.750	29.840
BANK 5	33.920	29.030	30.400	26.470	29.270	27.330	32.800	26.790	25.830	25.380
BANK 6	25.250	25.770	220.680	235.830	242.080	253.280	258.740	258.730	258.730	258.730
BANK 7	29.355	29.336	29.344	-3.590	39.870	45.770	0.010	0.010	0.010	0.009

25 READING AT 822691 900

BANK 1	76.910	83.940	84.090	83.950	83.720	85.300	86.060	82.700	86.420	95.900
BANK 2	94.980	93.050	93.590	85.630	84.620	85.000	84.160	86.140	85.800	87.290
BANK 3	85.210	83.190	86.980	84.630	86.530	85.500	85.550	88.210	87.270	87.460
BANK 4	88.130	87.270	87.400	86.840	86.660	86.020	86.590	30.610	31.960	30.280
BANK 5	34.530	29.010	35.140	26.520	35.450	29.420	32.500	26.790	25.840	25.390
BANK 6	25.410	25.810	227.250	244.440	255.950	258.770	258.770	258.770	258.770	258.770
BANK 7	29.361	29.342	29.349	-5.280	41.890	49.810	0.010	0.009	0.009	0.009

26 READING AT 822691 915

BANK 1	76.910	83.970	84.080	83.940	83.700	85.280	86.270	82.710	86.410	95.880
BANK 2	94.980	93.030	93.590	85.590	84.630	84.990	84.300	86.190	85.780	87.310
BANK 3	85.190	83.190	86.750	84.640	86.570	85.490	85.540	88.200	87.280	87.510
BANK 4	88.100	87.190	87.410	86.860	86.630	85.450	86.580	31.260	34.190	30.450
BANK 5	38.670	29.380	38.740	26.910	38.550	29.280	32.600	26.780	25.780	25.360
BANK 6	25.600	25.910	258.800	258.790	258.790	258.790	258.790	258.790	258.790	258.790
BANK 7	29.362	29.342	29.350	-5.330	40.910	48.700	0.010	0.009	0.009	0.008

27 READING AT 822691 930

BANK 1	76.910	83.970	84.080	83.940	83.700	85.280	86.270	82.710	86.410	95.880
BANK 2	94.980	93.030	93.590	85.590	84.630	84.990	84.300	86.190	85.780	87.310
BANK 3	85.190	83.190	86.750	84.640	86.570	85.490	85.540	88.200	87.280	87.510
BANK 4	88.100	87.190	87.410	86.860	86.630	85.450	86.580	31.260	34.190	30.450
BANK 5	38.670	29.380	38.740	26.910	38.550	29.280	32.600	26.780	25.780	25.360
BANK 6	25.600	25.910	258.800	258.790	258.790	258.790	258.790	258.790	258.790	258.790
BANK 7	29.362	29.342	29.350	-5.330	40.910	48.700	0.010	0.009	0.009	0.008

BANK 6 25.110 25.520 145.330 155.910 152.620 161.250 164.670 165.350 167.000 172.280
BANK 7 22.352 22.341 22.343 -1.600 37.760 45.670 0.011 0.010 0.010 0.010

21 READING AT 822691 745

BANK 1 76.900 83.970 84.120 84.090 83.790 85.350 85.900 82.750 86.470 96.140
BANK 2 75.020 93.130 93.660 85.720 84.660 85.040 84.230 86.200 85.600 87.300
BANK 3 85.260 83.230 86.430 84.760 86.590 85.580 85.700 87.270 87.330 87.540
BANK 4 88.210 87.260 87.440 86.910 86.720 86.560 86.630 30.850 31.250 29.750
BANK 5 34.290 27.690 32.660 26.560 29.780 27.370 32.070 26.750 25.760 25.240
BANK 6 25.070 25.580 247.660 256.240 258.590 258.590 258.590 258.590 258.590 258.580
BANK 7 29.360 29.337 29.346 -1.600 37.690 45.800 0.011 0.010 0.010 0.010

22 READING AT 822691 815

BANK 1 76.860 83.920 84.110 84.120 83.790 85.350 85.760 82.740 86.470 96.090
BANK 2 95.010 93.140 93.660 85.720 84.670 85.130 84.290 86.280 85.830 87.360
BANK 3 85.280 83.230 86.440 84.740 86.630 85.620 85.660 88.230 87.290 87.560
BANK 4 88.220 87.310 87.480 86.870 86.700 86.660 30.150 34.060 29.680
BANK 5 35.630 27.470 37.270 26.850 32.210 27.860 31.540 26.770 25.810 25.270
BANK 6 25.140 25.610 166.060 175.020 179.650 181.180 186.450 185.380 187.990 188.520
BANK 7 22.363 22.346 22.351 -4.440 37.440 45.780 0.012 0.011 0.011 0.011

23 READING AT 822691 830

BANK 1 76.890 83.930 84.080 83.980 83.740 85.320 86.240 82.720 86.440 96.000
BANK 2 94.220 93.130 93.620 85.660 84.620 85.030 84.310 86.200 85.800 87.290
BANK 3 85.230 83.200 86.780 84.670 86.600 85.510 85.620 88.230 87.260 87.480
BANK 4 88.320 87.340 87.400 86.860 86.720 85.800 86.590 29.760 32.590 29.410
BANK 5 35.330 28.000 33.120 26.710 30.360 27.860 33.180 26.760 25.840 25.340
BANK 6 25.340 25.800 220.450 235.330 243.910 253.230 258.670 258.670 258.670 258.670
BANK 7 22.359 22.337 22.344 -3.960 40.110 45.570 0.011 0.010 0.010 0.010

24 READING AT 822691 845

BANK 1 76.820 83.930 84.070 84.000 83.730 85.310 86.010 82.720 86.440 95.960
BANK 2 94.290 93.120 93.610 85.660 84.620 85.060 84.200 86.310 85.810 87.310
BANK 3 85.220 83.190 86.550 84.690 86.590 85.500 85.530 89.180 87.260 87.520
BANK 4 88.100 87.270 87.430 86.870 86.730 86.070 86.590 30.170 31.750 29.840
BANK 5 33.920 28.030 30.400 26.470 29.270 27.330 32.800 26.790 25.830 25.380
BANK 6 25.250 25.770 220.680 235.830 242.080 253.280 258.740 258.730 258.730 258.730
BANK 7 22.355 22.336 22.344 -3.590 39.870 45.770 0.010 0.010 0.010 0.009

25 READING AT 822691 900

BANK 1 76.910 83.940 84.090 83.950 83.720 85.300 86.060 82.700 86.420 95.900
BANK 2 94.280 93.050 93.590 85.630 84.620 85.000 84.160 86.140 85.600 87.290
BANK 3 85.210 83.190 86.580 84.630 86.530 85.500 85.550 89.210 87.270 87.460
BANK 4 88.130 87.270 87.400 86.840 86.660 86.020 86.590 30.610 31.980 30.280
BANK 5 34.530 29.010 35.140 26.520 35.450 29.420 32.500 26.790 25.840 25.390
BANK 6 25.440 25.810 227.250 244.440 255.950 258.770 258.770 258.770 258.770 258.770
BANK 7 22.361 22.342 22.349 -5.280 41.890 49.810 0.009 0.009 0.009 0.009

26 READING AT 822691 915

BANK 1 76.910 83.970 84.080 83.940 83.700 85.280 86.270 82.710 86.410 95.880
BANK 2 94.280 93.030 93.590 85.590 84.630 84.990 84.300 86.190 85.780 87.310
BANK 3 85.190 83.190 86.750 84.640 86.570 85.490 85.540 88.200 87.280 87.510
BANK 4 88.100 87.190 87.410 86.860 86.630 85.450 86.580 31.260 34.190 30.450
BANK 5 38.670 29.380 38.740 26.910 38.550 29.280 32.600 26.780 25.780 25.380
BANK 6 25.600 25.910 253.800 258.790 258.790 258.790 258.790 258.790 258.790 258.790
BANK 7 22.362 22.342 22.350 -5.380 40.910 49.700 0.010 0.009 0.009 0.008

27 READING AT 822691 930

BANK 1 76.880 83.950 84.000 83.900 83.690 85.280 85.980 82.700 86.400 95.830
BANK 2 84.950 93.060 93.560 85.610 84.590 84.960 84.170 86.080 85.760 87.260
BANK 3 85.170 83.140 86.740 84.610 86.540 85.440 85.540 88.190 87.280 87.510

BANK 5	35.630	29.020	33.050	27.330	30.500	28.260	32.660	26.780	25.810	25.430
BANK 6	25.480	25.740	217.760	232.110	240.810	246.530	251.400	258.830	258.830	258.830
BANK 7	22.356	22.338	22.343	-4.270	40.930	48.930	0.009	0.009	0.009	0.009

28. READING AT 822691.945

BANK 1	76.880	83.890	83.980	83.880	83.670	85.250	86.060	82.690	86.390	95.760
BANK 2	94.920	93.050	93.540	85.520	84.550	84.930	84.190	86.130	85.750	87.230
BANK 3	85.160	93.150	86.520	84.540	86.520	85.430	85.600	88.140	87.260	87.400
BANK 4	88.070	87.340	87.390	86.800	86.640	86.020	86.550	30.640	31.760	30.000
BANK 5	33.630	28.110	30.380	26.810	29.080	27.500	32.550	26.810	25.870	25.440
BANK 6	25.460	25.770	258.900	258.900	258.900	258.900	258.900	258.900	258.900	258.900
BANK 7	29.355	29.336	29.340	-4.640	41.010	49.060	0.009	0.009	0.008	0.008

29. READING AT 822691.1000

BANK 1	76.860	83.930	83.980	83.880	83.660	85.240	86.010	82.660	86.360	95.710
BANK 2	94.930	93.060	93.530	85.570	84.560	84.920	84.140	86.120	85.770	87.260
BANK 3	85.160	93.130	86.430	84.560	86.530	85.440	85.520	88.130	87.240	87.430
BANK 4	88.130	87.260	87.420	86.880	86.610	86.120	86.570	30.790	32.790	30.230
BANK 5	35.220	27.710	35.780	26.930	33.590	27.920	32.150	26.810	25.920	25.450
BANK 6	25.490	25.780	258.950	258.950	258.950	258.950	258.950	258.950	258.950	258.950
BANK 7	29.358	29.341	29.345	-4.450	40.910	48.870	0.002	0.002	0.008	0.008

30. READING AT 822691.1015

BANK 1	76.870	83.870	83.950	83.890	83.640	85.230	86.000	82.690	86.370	95.670
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BANK 2	94.210	93.040	93.520	85.570	84.530	84.930	84.140	86.200	85.760	87.220
BANK 3	85.160	93.130	86.430	84.520	86.540	85.430	85.610	88.150	87.120	87.460
BANK 4	88.170	87.260	87.390	86.920	86.620	86.040	86.550	30.530	34.820	30.270
BANK 5	36.200	27.830	38.910	27.350	36.060	28.840	32.830	26.810	25.920	25.460
BANK 6	25.520	25.830	258.970	258.960	258.960	258.960	258.960	258.960	258.960	258.960
BANK 7	29.359	29.341	29.347	-4.270	41.020	49.140	0.009	0.009	0.002	0.002

31. READING AT 822691.1030

BANK 1	76.880	83.920	83.950	83.900	83.640	85.220	86.020	82.660	86.360	95.600
BANK 2	94.200	93.020	93.500	85.540	84.530	84.990	84.090	86.160	85.750	87.240
BANK 3	85.150	93.090	86.480	84.540	86.470	85.440	85.500	88.100	87.180	87.430
BANK 4	88.110	87.220	87.370	86.810	86.660	86.030	86.550	31.130	32.090	29.960
BANK 5	35.650	28.110	34.730	27.120	30.770	28.050	33.230	26.820	25.990	25.500
BANK 6	25.510	25.870	227.260	243.110	253.180	259.070	259.010	259.010	259.010	259.010
BANK 7	29.356	29.339	29.341	-4.040	40.850	49.210	0.009	0.008	0.008	0.008

32. READING AT 822691.1045

BANK 1	76.850	83.910	83.970	83.900	83.620	85.210	85.990	82.630	86.360	95.570
BANK 2	94.900	93.010	93.490	85.550	84.520	84.900	84.020	86.090	85.760	87.230
BANK 3	85.140	93.090	86.520	84.530	86.540	85.400	85.480	88.190	87.230	87.460
BANK 4	88.100	87.300	87.340	86.820	86.600	85.980	86.530	31.090	31.430	30.070
BANK 5	34.320	27.720	31.970	26.780	29.400	27.430	32.510	26.840	26.010	25.500
BANK 6	25.500	25.910	226.990	241.190	254.500	259.050	259.050	259.050	259.050	259.050
BANK 7	29.353	29.335	29.338	-3.960	40.820	49.310	0.009	0.009	0.008	0.008

33. READING AT 822691.1100

BANK 1	76.870	83.960	83.980	83.860	83.610	85.200	85.940	82.640	86.360	95.550
BANK 2	94.890	93.040	93.470	85.530	84.490	84.880	84.130	86.090	85.750	87.130
BANK 3	85.140	93.070	86.510	84.540	86.530	85.430	85.450	88.200	87.230	87.390
BANK 4	88.140	87.400	87.410	86.840	86.600	86.040	86.540	30.410	33.890	29.890
BANK 5	35.420	27.690	35.140	27.150	31.300	27.890	31.880	26.860	26.000	25.510
BANK 6	25.480	25.930	259.070	259.070	259.070	259.060	259.060	259.060	259.060	259.060
BANK 7	29.356	29.339	29.344	-3.880	40.960	49.210	0.009	0.008	0.008	0.008

34. READING AT 822691.1115

BANK 1	76.890	83.810	83.940	83.780	83.610	85.190	85.970	82.630	86.340	95.490
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BANK 5	36.490	27.810	38.400	27.100	33.980	28.730	32.800	26.860	25.970	25.520
BANK 6	25.470	25.950	259.070	259.070	259.070	259.070	259.070	259.070	259.070	259.070
BANK 7	29.358	29.340	29.346	-3.890	40.850	49.550	0.009	0.009	0.008	0.008

35 READING AT 8226911130

BANK 1	76.890	83.820	83.970	83.800	83.590	85.170	86.070	82.640	86.330	95.440
BANK 2	94.870	92.990	93.430	85.530	84.480	84.940	84.030	86.110	85.730	87.120
BANK 3	85.090	83.040	86.460	84.440	86.500	85.370	85.460	88.170	87.230	87.370
BANK 4	88.070	87.360	87.420	86.830	86.570	85.950	86.520	29.820	32.850	29.530

BANK 5	35.600	27.820	34.890	27.170	30.540	28.190	33.060	26.890	26.000	25.510
BANK 6	25.480	25.990	259.080	259.080	259.080	259.080	259.080	259.070	259.070	259.070
BANK 7	29.352	29.336	29.340	-3.790	40.780	49.520	0.009	0.009	0.008	0.008

36 READING AT 8226911145

BANK 1	76.840	83.760	83.950	83.810	83.580	85.170	85.960	82.620	86.330	95.400
BANK 2	94.860	92.960	93.420	85.530	84.470	84.930	84.060	85.990	85.690	87.120
BANK 3	85.070	83.060	86.430	84.460	86.480	85.350	85.480	88.120	87.210	87.420
BANK 4	88.140	87.150	87.350	86.720	86.610	85.960	86.510	30.230	31.770	29.900
BANK 5	34.260	28.010	30.620	26.720	28.920	27.420	33.010	26.890	26.030	25.550
BANK 6	25.510	26.000	226.490	241.160	252.420	259.250	259.080	259.080	259.080	259.070
BANK 7	29.350	29.333	29.338	-3.740	40.570	49.590	0.009	0.008	0.008	0.008

37 READING AT 8226911200

BANK 1	76.880	83.790	83.920	83.810	83.580	85.160	85.960	82.600	86.320	95.360
BANK 2	94.860	92.980	93.420	85.490	84.470	84.840	84.050	85.990	85.720	87.150
BANK 3	85.040	83.050	86.420	84.440	86.460	85.360	85.410	88.120	87.200	87.460
BANK 4	88.170	87.180	87.340	86.770	86.610	86.010	86.520	30.700	31.920	30.340
BANK 5	34.740	29.130	35.420	26.830	33.590	28.510	32.510	26.910	26.060	25.580
BANK 6	25.600	26.000	230.070	243.330	252.580	259.040	259.040	259.030	259.030	259.030
BANK 7	29.355	29.338	29.343	-3.660	40.590	49.680	0.009	0.009	0.008	0.008

38 READING AT 8226911215

BANK 1	76.880	83.770	83.900	83.770	83.540	85.120	85.890	82.590	86.280	95.280
BANK 2	94.830	92.960	93.380	85.480	84.470	84.860	84.120	86.030	85.670	87.170
BANK 3	85.030	83.040	86.390	84.420	86.470	85.330	85.390	88.120	87.150	87.430
BANK 4	88.180	87.260	87.300	86.790	86.600	85.960	86.500	31.350	34.330	30.490
BANK 5	39.590	29.580	38.860	27.150	36.860	29.330	32.800	26.910	25.970	25.570
BANK 6	25.660	25.980	258.300	258.930	258.930	258.930	258.930	258.930	258.930	258.930
BANK 7	29.357	29.340	29.343	-3.830	40.660	49.560	0.009	0.009	0.008	0.009

39 READING AT 8226911230

BANK 1	76.880	83.720	83.910	83.750	83.530	85.110	85.890	82.570	86.280	95.250
BANK 2	94.820	92.900	93.350	85.440	84.420	84.830	84.080	86.000	85.660	87.100
BANK 3	84.990	83.000	86.300	84.360	86.410	85.320	85.360	88.060	87.070	87.430
BANK 4	88.090	87.210	87.260	86.760	86.590	85.900	86.470	30.990	32.460	30.270
BANK 5	35.890	29.170	32.970	27.470	29.430	28.440	32.760	26.910	26.000	25.610
BANK 6	25.720	25.990	258.890	258.890	258.890	258.890	258.890	258.890	258.890	258.890
BANK 7	29.351	29.333	29.339	-3.680	40.680	49.580	0.010	0.009	0.008	0.009

40 READING AT 8226911245

BANK 1	76.880	83.770	83.870	83.760	83.510	85.090	85.930	82.570	86.270	95.210
BANK 2	94.810	92.950	93.340	85.450	84.430	84.790	83.990	85.990	85.680	87.030
BANK 3	85.000	82.990	86.280	84.350	86.430	85.310	85.350	88.070	87.180	87.400
BANK 4	88.030	87.140	87.290	86.760	86.560	85.960	86.470	30.760	31.860	30.050
BANK 5	33.810	28.150	30.430	27.090	28.560	27.530	32.590	26.930	26.070	25.640
BANK 6	25.650	26.000	258.860	258.860	258.860	258.860	258.860	258.860	258.860	258.860
BANK 7	29.348	29.331	29.336	-3.610	40.660	49.940	0.010	0.009	0.009	0.009

BANK 1	76,860	83,720	83,850	83,790	83,900	85,080	84,830	84,070	86,030	86,220	95,180
BANK 2	24,790	22,950	23,330	85,430	84,420	84,830	85,070	86,030	86,220	85,670	87,070
BANK 3	84,980	83,010	86,310	84,340	86,470	85,270	85,350	88,040	87,160	87,390	
BANK 4	88,170	87,180	87,310	86,900	86,560	85,980	86,470	30,830	32,710	30,270	
BANK 5	35,320	27,880	32,820	27,100	32,260	28,020	26,940	26,420	26,060	25,650	
BANK 6	25,600	26,020	22,280	23,710	24,540	25,370	25,860	258,860	258,860	258,860	
BANK 7	29,352	29,333	29,338	-3,660	40,630	49,880	0,010	0,009	0,009	0,009	

42 READING AT 82269:1315

BANK 1	76,880	83,750	83,840	83,750	83,490	85,080	85,830	82,570	86,250	95,160	
BANK 2	24,780	22,980	23,310	85,430	84,420	84,790	84,060	86,010	85,660	87,060	
BANK 3	84,980	82,970	86,370	84,360	86,360	85,290	85,380	88,060	87,170	87,430	
BANK 4	88,060	87,200	87,260	86,760	86,560	85,940	86,470	30,710	35,020	30,300	
BANK 5	36,620	27,840	38,700	27,610	35,290	28,890	32,950	26,930	26,070	25,650	
BANK 6	25,590	26,050	215,100	231,780	237,660	242,560	248,680	253,180	258,760	258,760	
BANK 7	29,353	29,335	29,340	-3,670	40,630	49,950	0,010	0,010	0,009	0,009	

43 READING AT 82269:1330

BANK 1	76,880	83,750	83,870	83,710	83,510	85,080	85,910	82,580	86,260	95,120	
BANK 2	24,780	22,960	23,330	85,420	84,450	84,850	84,050	85,930	85,680	87,100	
BANK 3	84,920	82,960	86,340	84,360	86,320	85,280	85,260	88,100	87,160	87,360	
BANK 4	88,010	87,260	87,350	86,780	86,550	85,830	86,480	31,160	32,180	30,050	
BANK 5	35,510	28,080	34,590	27,190	29,850	27,970	33,320	26,950	26,120	25,630	
BANK 6	25,620	26,120	204,720	217,730	224,200	231,970	234,080	240,160	244,820	249,490	
BANK 7	22,348	22,330	29,336	-3,660	40,460	49,220	0,011	0,010	0,010	0,010	

44 READING AT 82269:1345

BANK 1	76,880	83,770	83,860	83,710	83,470	85,070	85,200	82,560	86,260	95,220	
BANK 2	24,720	22,950	23,310	85,400	84,400	84,800	83,970	85,950	85,670	87,130	
BANK 3	84,920	82,980	86,220	84,320	86,390	85,280	85,280	89,100	87,120	87,350	
BANK 4	88,020	87,220	87,330	86,790	86,520	85,910	86,460	31,180	31,570	30,180	
BANK 5	34,070	27,880	31,370	26,810	28,930	27,490	32,510	26,970	26,170	25,690	
BANK 6	25,650	26,130	203,420	211,700	217,470	219,500	222,240	224,640	227,420	230,690	
BANK 7	22,347	22,328	29,336	-3,560	40,590	49,880	0,011	0,011	0,010	0,010	

45 READING AT 82269:1400

BANK 1	76,840	83,740	83,860	83,710	83,480	85,060	85,880	82,540	86,260	95,370	
BANK 2	24,780	22,960	23,320	85,430	84,370	84,800	83,980	85,990	85,670	87,140	
BANK 3	84,990	82,930	86,310	84,380	86,420	85,280	85,260	88,020	87,210	87,410	
BANK 4	88,110	87,230	87,360	86,760	86,530	85,970	86,480	30,490	34,210	29,670	
BANK 5	35,680	27,720	36,810	27,190	31,760	27,910	31,980	27,000	26,120	25,700	
BANK 6	25,650	26,130	258,570	258,570	258,570	258,570	258,570	258,570	258,570	258,570	
BANK 7	29,351	29,332	29,337	-3,610	40,650	50,080	0,012	0,011	0,011	0,011	

46 READING AT 82269:1415

BANK 1	76,840	83,750	83,840	83,700	83,480	85,060	85,780	82,550	86,240	95,560	
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BANK 2	24,780	22,960	23,350	85,440	84,400	84,830	84,160	85,240	85,650	87,060	
BANK 3	84,980	82,950	86,330	84,340	86,420	85,280	85,300	88,050	87,200	87,350	
BANK 4	88,130	87,210	87,340	86,750	86,560	86,030	86,480	30,040	36,550	29,710	
BANK 5	36,640	27,980	39,240	27,510	35,130	28,490	32,920	27,000	26,090	25,690	
BANK 6	25,620	26,110	222,200	235,450	242,530	248,710	255,580	258,500	258,500	258,500	
BANK 7	29,350	29,334	29,340	-3,660	40,660	50,010	0,012	0,011	0,011	0,011	

47 READING AT 82269:1430

BANK 1	76,850	83,710	83,830	83,650	83,470	85,040	85,770	82,550	86,230	95,680	
BANK 2	24,770	22,950	23,360	85,390	84,360	84,820	83,980	85,940	85,630	87,060	
BANK 3	84,970	82,940	86,270	84,310	86,400	85,300	85,370	88,030	87,100	87,360	
BANK 4	87,970	87,210	87,340	86,820	86,000	86,460	86,460	29,980	32,670	29,790	
BANK 5	36,000	28,480	33,460	26,870	29,260	28,250	33,220	27,000	26,100	25,700	
BANK 6	25,800	26,130	253,450	258,450	258,450	258,450	258,450	258,450	258,440	258,440	
BANK 7	29,340	29,332	29,334	-3,700	40,720	49,950	0,011	0,011	0,011	0,011	

BANK 1	76,860	93,630	93,820	93,650	93,450	85,030	85,790	82,540	86,230	95,820
BANK 2	94,760	92,950	93,370	85,410	94,330	84,790	83,910	85,880	85,640	87,070
BANK 3	84,960	92,940	86,460	84,330	86,410	85,250	85,290	88,040	87,190	87,370
BANK 4	88,100	87,270	87,290	86,760	86,460	85,990	86,450	30,430	31,970	30,040
BANK 5	34,620	28,520	31,070	26,600	28,610	27,570	32,930	27,040	26,130	25,730
BANK 6	25,750	26,150	258,410	258,410	258,410	258,400	258,410	258,400	258,400	258,400
BANK 7	29,345	29,332	29,334	-3,560	41,910	49,560	0,012	0,012	0,011	0,011

49 READING AT 8226911500

BANK 1	76,870	93,690	93,790	93,670	93,460	85,030	85,870	82,520	86,220	95,930
BANK 2	94,750	92,930	93,380	85,390	84,400	84,770	83,970	85,870	85,640	87,100
BANK 3	84,970	92,940	86,290	84,300	86,400	85,230	85,290	88,060	87,160	87,400
BANK 4	88,090	87,190	87,300	86,780	86,550	86,000	86,470	30,880	32,150	30,410
BANK 5	35,000	29,200	35,310	26,700	33,360	28,490	32,770	27,050	26,110	25,730
BANK 6	25,790	26,140	220,780	233,090	240,010	248,360	253,980	257,400	258,370	258,370
BANK 7	29,350	29,333	29,339	-3,550	42,060	49,690	0,013	0,012	0,012	0,012

50 READING AT 8226911515

BANK 1	76,870	93,690	93,800	93,700	93,440	84,990	85,770	82,510	86,210	95,930
BANK 2	94,740	92,930	93,390	85,400	84,310	84,760	84,000	85,850	85,620	87,040
BANK 3	84,940	92,890	86,560	84,280	86,400	85,220	85,300	88,060	87,130	87,330
BANK 4	88,070	87,310	87,330	86,790	86,490	86,050	86,470	31,490	34,790	30,620
BANK 5	33,680	29,760	32,060	27,170	36,870	22,290	32,800	27,040	26,160	25,720
BANK 6	25,800	26,130	258,380	258,370	258,370	258,370	258,370	258,370	258,370	258,360
BANK 7	29,353	29,337	29,332	-3,510	42,030	49,580	0,013	0,012	0,012	0,012

51 READING AT 8226911530

BANK 1	76,870	93,610	93,780	93,650	93,410	85,000	85,760	82,470	86,200	95,880
BANK 2	94,720	92,900	93,360	85,380	84,350	84,760	84,020	85,860	85,620	87,090
BANK 3	84,930	92,890	86,330	84,310	86,390	85,220	85,210	87,990	87,170	87,380
BANK 4	88,110	87,150	87,260	86,780	86,490	85,990	86,450	31,230	32,670	30,440

BANK 5	36,860	22,370	33,750	27,580	22,630	28,410	32,820	27,050	26,190	25,760
BANK 6	25,870	26,120	229,570	237,430	244,630	251,160	258,360	258,350	258,350	258,350
BANK 7	29,347	29,331	29,333	-3,460	42,060	49,430	0,013	0,012	0,012	0,012

52 READING AT 8226911545

BANK 1	76,850	93,650	93,750	93,690	93,420	84,990	85,690	82,480	86,190	95,870
BANK 2	94,720	92,890	93,370	85,400	84,310	84,720	83,940	85,900	85,610	87,040
BANK 3	84,900	92,910	86,190	84,230	86,390	85,220	85,270	87,980	87,140	87,330
BANK 4	88,040	87,180	87,280	86,760	86,530	86,010	86,430	30,900	31,970	30,320
BANK 5	35,600	28,660	30,600	27,010	28,300	27,560	32,700	27,080	26,170	25,800
BANK 6	25,850	26,150	217,730	230,190	237,380	244,010	250,040	254,260	257,510	258,340
BANK 7	29,342	29,330	29,331	-3,240	41,850	49,740	0,013	0,012	0,012	0,012

53 READING AT 8226911600

BANK 1	76,850	93,610	93,710	93,620	93,410	84,970	85,870	82,470	86,180	95,870
BANK 2	94,700	92,900	93,350	85,370	84,300	84,730	83,910	85,840	85,590	87,010
BANK 3	84,900	92,920	86,200	84,300	86,380	85,220	85,170	87,960	87,130	87,300
BANK 4	87,990	87,180	87,250	86,800	86,530	85,970	86,440	31,040	32,900	30,400
BANK 5	36,320	28,240	36,410	27,090	32,380	28,200	32,360	27,080	26,180	25,810
BANK 6	25,940	26,180	258,340	258,340	258,330	258,330	258,330	258,330	258,330	258,330
BANK 7	29,347	29,329	29,341	-3,230	41,730	49,750	0,013	0,012	0,012	0,012

54 READING AT 8226911615

BANK 1	76,870	93,580	93,770	93,630	93,420	84,970	85,660	82,480	86,180	95,840
BANK 2	94,710	92,900	93,350	85,360	84,300	84,750	83,890	85,920	85,570	87,050
BANK 3	84,920	92,880	86,250	84,270	86,340	85,200	85,180	88,010	87,130	87,370
BANK 4	88,050	87,120	87,210	86,760	86,500	86,010	86,450	30,960	35,470	30,360
BANK 5	37,900	27,780	39,320	27,550	35,630	28,840	33,060	27,070	26,210	25,810
BANK 6	25,760	26,190	226,040	239,690	243,500	251,670	254,900	258,280	258,280	258,280
BANK 7	29,350	29,334	29,337	-3,200	41,600	49,660	0,015	0,015	0,015	0,015

BANK 1	76.870	83.630	83.740	83.740	83.530	83.400	84.240	85.240	82.470	86.170	95.760
BANK 2	24.690	92.890	93.350	93.350	94.310	94.720	95.210	95.210	85.860	85.570	87.040
BANK 3	84.900	82.880	86.300	84.270	86.330	85.210	85.210	85.210	87.990	87.060	87.300
BANK 4	89.090	87.140	87.180	86.770	86.590	85.750	86.470	86.470	31.220	32.610	30.310
BANK 5	36.250	28.260	34.210	27.330	30.160	28.150	32.300	27.090	26.230	25.850	25.850
BANK 6	25.860	26.280	258.220	258.210	258.210	258.210	258.210	258.210	258.210	258.210	258.210
BANK 7	29.344	29.326	29.334	-3.090	41.700	49.930	0.014	0.014	0.013	0.012	0.012

56 READING AT 8226911645

BANK 1	76.870	83.630	83.700	83.610	83.390	84.950	85.920	82.440	86.160	95.740	95.740
BANK 2	24.670	92.890	93.340	85.340	84.270	84.710	84.030	85.820	85.550	87.030	87.030
BANK 3	84.900	82.910	86.340	84.270	86.360	85.160	85.120	88.000	87.040	87.310	87.310
BANK 4	87.990	87.190	87.220	86.760	86.490	85.690	86.400	31.330	31.700	30.400	30.400
BANK 5	35.200	28.130	31.210	26.830	28.990	27.570	32.570	27.120	26.290	25.850	25.850
BANK 6	25.850	26.340	258.230	258.220	258.220	258.220	258.220	258.220	258.210	258.210	258.210
BANK 7	29.343	29.329	29.329	-3.050	41.870	49.780	0.013	0.013	0.013	0.012	0.012

57 READING AT 8226911700

BANK 1	76.870	83.640	83.690	83.580	83.380	84.940	85.890	82.430	86.150	95.710	95.710
BANK 2	24.680	92.920	93.320	85.330	84.300	84.720	84.000	85.820	85.570	87.060	87.060
BANK 3	84.870	82.920	86.330	84.300	86.340	85.170	85.160	88.040	87.060	87.340	87.340
BANK 4	88.090	87.090	87.260	86.740	86.510	85.620	86.420	30.620	34.500	30.160	30.160
BANK 5	35.930	27.980	36.860	27.260	31.860	28.020	32.020	27.130	26.310	25.840	25.840
BANK 6	25.910	26.380	258.230	258.230	258.230	258.230	258.230	258.230	258.230	258.230	258.230
BANK 7	29.347	29.330	29.335	-3.120	41.540	50.000	0.013	0.013	0.013	0.013	0.012

58 READING AT 8226911715

BANK 1	76.870	83.580	83.680	83.570	83.370	84.930	85.910	82.430	86.140	95.670	95.670
BANK 2	24.660	92.900	93.310	85.320	84.250	84.620	83.970	85.800	85.530	86.950	86.950
BANK 3	84.860	82.890	86.310	84.220	86.330	85.160	85.150	88.030	87.080	87.300	87.300
BANK 4	88.000	87.090	87.280	86.730	86.480	85.580	86.400	30.220	32.220	29.880	29.880
BANK 5	38.420	28.480	32.980	27.450	33.500	28.530	33.010	27.150	26.370	25.830	25.830
BANK 6	26.950	26.400	258.190	258.190	258.190	258.190	258.190	258.190	258.190	258.190	258.190
BANK 7	29.342	29.333	29.336	-3.250	41.630	49.850	0.014	0.013	0.013	0.013	0.013

59 READING AT 8226911730

BANK 1	76.850	83.500	83.670	83.600	83.360	84.920	85.760	82.440	86.130	95.640	95.640
BANK 2	24.660	92.880	93.290	85.290	84.300	84.710	83.870	85.790	85.530	87.030	87.030
BANK 3	84.860	82.880	86.220	84.240	86.290	85.120	85.110	87.990	87.100	87.270	87.270
BANK 4	87.870	87.120	87.200	86.710	86.480	85.740	86.390	30.110	32.600	29.880	29.880
BANK 5	36.250	28.630	34.150	27.020	29.230	28.290	33.300	27.150	26.460	25.860	25.860
BANK 6	26.030	26.360	138.490	150.350	158.280	164.700	162.610	172.680	176.820	180.640	180.640
BANK 7	29.344	29.325	29.330	-3.200	41.770	50.130	0.014	0.013	0.013	0.013	0.013

60 READING AT 8226911745

BANK 1	76.860	83.520	83.660	83.570	83.350	84.910	85.730	82.420	86.120	95.620	95.620
BANK 2	24.640	92.850	93.280	85.280	84.240	84.750	83.860	85.720	85.520	86.940	86.940
BANK 3	84.850	82.850	86.120	84.240	86.300	85.130	85.150	87.990	87.080	87.350	87.350
BANK 4	88.060	87.000	87.220	86.700	86.490	85.830	86.380	30.510	32.010	30.170	30.170
BANK 5	34.240	28.580	31.020	26.630	28.510	27.600	33.040	27.170	26.480	25.890	25.890
BANK 6	25.210	26.280	206.280	214.180	219.570	220.280	224.230	229.440	232.640	232.640	232.640
BANK 7	29.342	29.325	29.329	-3.180	41.730	50.150	0.014	0.013	0.013	0.013	0.013

61 READING AT 8226911800

BANK 1	76.880	83.550	83.690	83.590	83.340	84.910	85.840	82.400	86.120	95.570	95.570
BANK 2	24.630	92.870	93.270	85.260	84.250	84.720	83.820	85.740	85.500	86.940	86.940
BANK 3	84.850	82.880	86.170	84.250	86.340	85.140	85.130	87.960	87.070	87.310	87.310
BANK 4	87.960	87.060	87.200	86.680	86.460	85.760	86.390	30.920	32.210	30.540	30.540
BANK 5	35.150	22.470	35.320	26.870	33.240	28.600	32.640	27.190	26.470	25.890	25.890
BANK 6	25.980	26.360	206.510	215.910	221.290	226.560	229.260	233.790	235.970	239.370	239.370
BANK 7	29.344	29.325	29.329	-3.180	41.730	50.150	0.014	0.013	0.013	0.013	0.013

56. READING AT 8226911645

BANK 1	76.870	83.630	83.700	83.610	83.390	84.950	85.920	82.440	86.160	95.740
BANK 2	94.670	92.890	93.340	85.340	84.270	84.710	84.030	85.820	85.550	87.030
BANK 3	84.600	82.910	86.340	84.270	86.360	85.160	85.120	88.000	87.040	87.310
BANK 4	87.990	87.190	87.220	86.760	86.400	85.690	86.400	31.330	31.700	30.400
BANK 5	35.200	28.130	31.210	26.830	26.950	27.570	32.570	27.120	26.290	25.850
BANK 6	25.850	26.360	258.230	258.230	258.220	258.220	258.220	258.220	258.210	258.210
BANK 7	29.343	29.329	29.329	-3.050	41.870	49.780	0.013	0.013	0.013	0.012

57. READING AT 8226911700

BANK 1	76.870	83.640	83.620	83.530	83.380	84.240	85.890	82.430	86.150	95.710
BANK 2	94.680	92.220	93.320	85.330	84.300	84.720	84.000	85.820	85.570	87.060
BANK 3	84.870	82.920	86.330	84.300	86.340	85.170	85.160	88.040	87.060	87.340
BANK 4	88.090	87.090	87.260	86.740	86.510	85.620	86.420	30.620	34.500	30.160
BANK 5	35.230	27.980	36.860	27.260	31.860	28.020	32.020	27.130	26.310	25.840
BANK 6	25.910	26.380	258.230	258.230	258.230	258.230	258.230	258.230	258.230	258.230
BANK 7	29.347	29.330	29.335	-3.120	41.540	50.000	0.013	0.013	0.013	0.012

58. READING AT 8226911715

BANK 1	76.870	83.580	83.680	83.570	83.370	84.930	85.910	82.430	86.140	95.670
BANK 2	94.660	92.900	93.310	85.320	84.250	84.730	83.970	85.800	85.530	86.950
BANK 3	84.860	82.890	86.310	84.220	86.330	85.160	85.150	88.030	87.080	87.300
BANK 4	88.000	87.090	87.280	86.730	86.480	85.580	86.400	30.220	37.220	22.890
BANK 5	38.420	28.480	32.980	27.450	35.500	28.530	33.010	27.150	26.370	25.830
BANK 6	26.050	26.400	258.180	258.180	258.180	258.180	258.180	258.180	258.180	258.180
BANK 7	29.349	29.333	29.336	-3.250	41.630	49.850	0.014	0.013	0.013	0.013

59. READING AT 8226911730

BANK 1	76.850	83.500	83.670	83.600	83.360	84.920	85.760	82.440	86.130	95.640
BANK 2	94.660	92.880	93.290	85.290	84.300	84.710	83.870	85.790	85.530	87.030
BANK 3	84.860	82.880	86.220	84.240	86.290	85.120	85.110	87.990	87.100	87.270
BANK 4	87.870	87.120	87.200	86.710	86.480	85.740	86.390	30.110	32.860	29.880
BANK 5	36.250	28.630	34.150	27.020	22.930	28.220	33.300	27.150	26.460	25.860
BANK 6	26.030	26.360	138.490	150.350	158.280	164.700	162.610	172.680	176.820	180.640
BANK 7	29.344	29.325	29.330	-3.200	41.770	50.130	0.014	0.013	0.013	0.013

60. READING AT 8226911745

BANK 1	76.860	83.520	83.660	83.570	83.350	84.910	85.730	82.420	86.120	95.620
BANK 2	94.640	92.850	93.280	85.280	84.240	84.750	83.860	85.720	85.520	87.040
BANK 3	84.850	82.850	86.120	84.240	86.300	85.130	85.150	87.990	87.080	87.350
BANK 4	88.060	87.000	87.220	86.700	86.490	85.880	86.380	30.510	32.010	30.170
BANK 5	34.240	28.580	31.090	26.630	28.510	27.600	33.040	27.170	26.480	25.850
BANK 6	25.210	26.280	206.280	214.180	219.570	220.280	224.230	225.440	229.040	232.640
BANK 7	29.342	29.325	29.329	-3.180	41.730	50.150	0.014	0.013	0.013	0.013

61. READING AT 8226911800

BANK 1	76.880	83.550	83.690	83.590	83.340	84.910	85.840	82.400	86.120	95.570
BANK 2	94.630	92.870	93.270	85.260	84.250	84.720	83.820	85.740	85.500	86.940
BANK 3	84.850	82.880	86.170	84.250	86.340	85.140	85.130	87.960	87.070	87.310
BANK 4	87.960	87.060	87.200	86.690	86.460	85.760	86.390	30.210	32.210	30.540
BANK 5	35.150	28.470	35.320	26.870	33.240	28.600	32.640	27.190	26.420	25.890
BANK 6	25.980	26.360	206.510	215.210	221.240	226.560	229.240	233.790	235.270	239.370
BANK 7	29.346	29.327	29.334	-3.160	41.840	50.060	0.014	0.013	0.013	0.013

BANK 2	24.630	22.840	23.250	25.280	24.240	24.710	23.810	25.760	25.510	26.210
BANK 3	24.860	22.860	26.330	24.190	26.290	25.150	25.200	27.970	27.090	27.300
BANK 4	27.920	27.050	27.200	26.690	26.500	25.480	26.380	31.650	34.570	30.260
BANK 5	38.130	29.930	38.520	27.170	35.790	29.350	32.890	27.200	26.300	25.870
BANK 6	26.060	26.420	221.560	237.330	245.650	254.240	258.100	258.100	258.100	258.100
BANK 7	29.346	29.326	29.335	-3.140	41.770	50.100	0.014	0.013	0.013	0.013

63 READING AT 8226911830

BANK 1	76.880	23.520	23.660	23.530	23.320	24.820	25.480	22.410	26.100	25.500
BANK 2	24.600	22.820	23.230	25.260	24.260	24.650	23.910	25.710	25.490	27.010
BANK 3	24.850	22.830	25.930	24.180	26.300	25.120	25.080	27.920	27.060	27.260
BANK 4	27.900	27.130	27.210	26.720	26.490	26.410	26.370	31.250	32.630	30.480
BANK 5	37.120	29.590	33.850	27.540	29.730	28.490	32.900	27.200	26.310	25.910
BANK 6	25.830	26.140	226.850	233.510	239.020	243.140	248.990	247.780	252.230	253.880
BANK 7	29.342	29.322	29.330	-3.100	41.590	50.440	0.014	0.013	0.013	0.013

64 READING AT 8226911845

BANK 1	76.860	23.530	23.620	23.510	23.330	24.860	25.400	22.380	26.090	25.440
BANK 2	24.590	22.810	23.220	25.240	24.240	24.600	23.800	25.730	25.500	26.920
BANK 3	24.840	22.830	25.910	24.190	26.310	25.090	25.200	27.960	27.070	27.320
BANK 4	28.030	27.120	27.200	26.690	26.410	26.410	26.360	31.030	32.170	30.600
BANK 5	36.270	28.840	32.010	27.090	28.280	27.680	32.710	27.220	26.300	25.930
BANK 6	25.800	26.200	242.750	251.330	253.470	258.110	258.110	258.110	258.110	258.110
BANK 7	29.339	29.324	29.329	-2.990	41.530	50.360	0.014	0.014	0.013	0.013

65 READING AT 8226911900

BANK 1	76.810	23.510	23.620	23.500	23.300	24.870	25.440	22.370	26.090	25.420
BANK 2	24.600	22.830	23.210	25.260	24.190	24.660	23.890	25.710	25.470	26.920
BANK 3	24.850	22.820	25.960	24.290	26.260	25.100	25.140	27.930	27.000	27.250
BANK 4	27.950	27.110	27.180	26.670	26.440	26.410	26.360	31.170	33.450	30.690
BANK 5	37.000	29.340	37.060	27.260	23.140	28.320	32.490	27.230	26.310	25.950
BANK 6	25.770	26.220	225.700	236.940	240.840	245.740	250.080	252.220	254.380	258.230
BANK 7	29.344	29.323	29.331	-2.940	41.810	50.580	0.013	0.013	0.012	0.012

66 READING AT 8226911915

BANK 1	76.840	23.490	23.610	23.510	23.290	24.850	25.380	22.380	26.070	25.330
BANK 2	24.580	22.790	23.200	25.230	24.190	24.720	23.930	25.660	25.450	26.910
BANK 3	24.830	22.800	25.860	24.200	26.250	25.070	25.090	27.930	27.030	27.200
BANK 4	28.070	27.120	27.170	26.650	26.450	26.400	26.360	31.260	36.160	30.630
BANK 5	39.400	27.990	39.500	27.620	35.660	28.990	33.250	27.230	26.360	25.970
BANK 6	25.700	26.210	253.320	258.340	258.340	258.340	258.330	258.330	258.330	258.330
BANK 7	29.345	29.325	29.332	-2.920	41.890	50.470	0.013	0.012	0.012	0.012

67 READING AT 8226911930

BANK 1	76.840	23.480	23.600	23.500	23.270	24.850	25.280	22.380	26.050	25.320
BANK 2	24.570	22.750	23.170	25.210	24.220	24.640	23.810	25.670	25.460	26.860
BANK 3	24.820	22.790	25.960	24.150	26.270	25.020	25.040	27.900	26.980	27.260
BANK 4	27.960	27.020	27.150	26.640	26.430	26.370	26.340	31.390	32.730	30.410

BANK 5	36.340	28.290	34.230	27.360	30.250	28.240	33.450	27.230	26.390	25.980
BANK 6	25.690	26.220	248.350	258.420	258.420	258.420	258.420	258.410	258.410	258.410
BANK 7	29.339	29.321	29.327	-3.060	41.880	50.390	0.012	0.011	0.011	0.011

68 READING AT 8226911945

BANK 1	76.860	23.470	23.590	23.450	23.260	24.830	25.380	22.350	26.050	25.230
BANK 2	24.550	22.770	23.160	25.200	24.120	24.620	23.740	25.590	25.450	26.900
BANK 3	24.840	22.810	25.900	24.160	26.250	25.040	25.010	27.960	26.970	27.240
BANK 4	27.970	26.970	27.160	26.700	26.380	26.370	26.320	31.440	31.810	30.330
BANK 5	35.210	27.840	31.220	26.920	28.740	27.580	32.560	27.250	26.470	25.980

69 READING AT 82269:2000

BANK 1	76.870	83.450	93.550	83.490	83.250	84.840	85.390	82.340	86.040	95.200
BANK 2	94.560	92.770	83.150	85.200	84.200	84.620	83.800	85.650	85.450	86.890
BANK 3	84.840	82.600	85.780	84.160	86.230	85.030	83.090	87.920	86.970	87.240
BANK 4	88.030	86.970	87.100	86.670	86.430	86.380	86.330	30.800	34.520	30.260
BANK 5	35.870	27.830	36.830	27.350	32.070	27.890	32.080	27.260	26.470	25.970
BANK 6	29.740	26.270	258.330	258.330	258.330	258.320	258.320	258.320	258.320	258.320
BANK 7	29.339	29.322	29.331	-2.750	42.010	50.760	0.012	0.012	0.011	0.011

70 READING AT 82269:2015

BANK 1	76.890	83.460	83.560	83.460	83.250	84.840	85.430	82.340	86.040	95.180
BANK 2	94.540	92.780	83.120	85.200	84.180	84.570	83.890	85.620	85.440	86.890
BANK 3	84.850	82.780	85.790	84.140	86.210	85.000	83.050	87.930	86.960	87.260
BANK 4	87.920	87.000	87.080	86.670	86.450	86.360	86.320	30.180	37.070	29.960
BANK 5	38.220	27.980	39.520	27.430	32.170	28.490	32.250	27.290	26.540	25.950
BANK 6	25.890	26.270	258.240	258.240	258.240	258.240	258.240	258.240	258.240	258.240
BANK 7	29.342	29.330	29.331	-2.720	41.920	50.770	0.013	0.012	0.012	0.012

71 READING AT 82269:2030

BANK 1	76.870	83.460	83.560	83.450	83.230	84.830	85.400	82.340	86.030	95.110
BANK 2	94.510	92.770	83.110	85.190	84.120	84.610	83.870	85.610	85.410	86.800
BANK 3	84.830	82.770	85.800	84.150	86.230	85.000	85.040	87.960	86.920	87.160
BANK 4	87.970	87.070	87.090	86.620	86.400	86.340	86.310	30.060	33.070	29.860
BANK 5	36.400	28.280	34.090	26.960	29.820	28.300	33.410	27.280	26.610	25.980
BANK 6	25.840	26.290	214.960	226.400	232.390	235.870	237.650	241.380	246.850	247.610
BANK 7	29.336	29.318	29.324	-2.640	42.010	50.890	0.013	0.012	0.012	0.012

72 READING AT 82269:2045

BANK 1	76.850	83.420	83.490	83.410	83.240	84.820	85.400	82.330	86.020	95.080
BANK 2	94.510	92.760	83.090	85.180	84.090	84.520	83.780	85.620	85.420	86.810
BANK 3	84.830	82.760	85.830	84.130	86.220	84.920	85.000	87.910	87.000	87.200
BANK 4	87.920	86.960	87.120	86.640	86.320	86.320	86.220	30.420	32.140	30.340
BANK 5	35.070	28.360	32.040	26.660	28.320	27.540	33.040	27.300	26.610	25.990
BANK 6	25.880	26.310	258.350	258.350	258.350	258.350	258.350	258.340	258.340	258.340
BANK 7	29.334	29.320	29.323	-2.620	42.070	50.910	0.013	0.012	0.011	0.011

73 READING AT 82269:2100

BANK 1	76.840	83.420	83.530	83.440	83.200	84.810	85.490	82.320	86.020	95.020
BANK 2	94.500	92.770	83.070	85.160	84.090	84.580	83.730	85.620	85.410	86.890
BANK 3	84.830	82.790	85.740	84.060	86.220	84.920	85.030	87.900	86.980	87.200
BANK 4	87.940	87.030	87.120	86.520	86.410	86.320	86.300	30.270	32.360	30.610
BANK 5	35.230	29.630	35.420	26.770	33.270	28.540	32.550	27.320	26.560	25.980
BANK 6	25.880	26.330	238.720	248.030	252.540	257.410	258.400	258.400	258.400	258.390
BANK 7	29.340	29.318	29.326	-2.600	41.960	48.780	0.012	0.012	0.011	0.011

74 READING AT 82269:2115

BANK 1	76.840	83.420	83.480	83.420	83.210	84.800	85.450	82.310	86.010	95.030
BANK 2	94.500	92.730	83.050	85.170	84.090	84.580	83.780	85.520	85.400	86.860
BANK 3	84.810	82.760	85.830	84.080	86.230	84.980	85.120	87.860	86.990	87.200
BANK 4	87.930	86.940	87.060	86.590	86.360	86.320	86.290	31.690	34.460	30.830
BANK 5	38.600	29.970	38.980	27.180	35.870	22.380	32.820	27.330	26.410	25.950
BANK 6	25.760	26.310	214.180	228.290	231.620	236.600	240.000	245.230	246.940	251.470
BANK 7	29.339	29.325	29.327	-2.580	42.070	48.260	0.012	0.012	0.011	0.011

75 READING AT 82269:2130

BANK 1	76.850	83.390	83.470	83.390	83.200	84.790	85.480	82.300	85.990	94.940
BANK 2	94.490	92.700	83.030	85.130	84.120	84.520	83.740	85.570	85.390	86.830
BANK 3	84.820	82.730	85.870	84.100	86.190	84.930	85.060	87.820	86.960	87.150
BANK 4	87.970	86.900	87.090	86.620	86.380	86.300	86.270	31.320	32.690	30.580
BANK 5	36.390	29.160	33.650	27.670	28.390	26.490	33.650	27.670	26.490	25.930

76 READING AT 82269:2145

BANK 1	76.830	83.410	83.500	83.400	83.190	84.780	85.520	82.310	85.990	94.900
BANK 2	94.120	92.710	93.040	85.140	84.080	84.450	83.770	85.580	85.380	86.820
BANK 3	84.830	82.700	85.770	84.100	86.270	84.920	84.970	87.900	86.980	87.100
BANK 4	87.940	87.020	87.130	86.590	86.380	86.290	86.270	31.010	32.080	30.390
BANK 5	35.340	28.620	30.730	27.010	28.180	27.550	32.780	27.350	26.420	26.020
BANK 6	25.860	26.320	254.990	258.480	258.480	258.480	258.480	258.480	258.480	258.480
BANK 7	29.332	29.313	29.320	-2.440	42.110	48.340	0.012	0.011	0.011	0.011

77 READING AT 82269:2200

BANK 1	76.820	83.360	83.480	83.370	83.170	84.780	85.420	82.300	85.980	94.870
BANK 2	94.460	92.670	93.010	85.090	84.100	84.520	82.710	85.540	85.410	86.770
BANK 3	84.830	82.710	85.800	84.130	86.200	84.960	85.020	87.850	86.980	87.160
BANK 4	87.860	87.020	87.160	86.580	86.340	86.280	86.260	31.070	32.630	30.510
BANK 5	36.070	28.400	36.130	27.100	31.090	28.200	32.360	27.350	26.440	26.020
BANK 6	25.810	26.340	223.160	233.430	236.210	241.860	244.900	248.030	249.170	254.010
BANK 7	29.335	29.318	29.322	-2.390	41.790	48.270	0.012	0.012	0.011	0.011

78 READING AT 82269:2215

BANK 1	76.830	83.360	83.470	83.350	83.160	84.770	85.410	82.280	85.970	94.840
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BANK 2	94.470	92.720	93.000	85.110	84.050	84.510	83.640	85.530	85.380	86.800
BANK 3	84.810	82.680	85.750	84.080	86.180	84.930	85.040	87.830	86.970	87.140
BANK 4	87.890	86.900	87.090	86.630	86.370	86.290	86.260	30.860	35.530	30.520
BANK 5	37.840	27.900	38.900	27.540	34.430	29.050	33.060	27.340	26.470	26.020
BANK 6	25.730	26.320	225.020	236.590	239.800	244.450	249.130	251.810	254.030	256.860
BANK 7	29.336	29.321	29.324	-2.410	42.130	48.270	0.013	0.012	0.012	0.012

79 READING AT 82269:2230

BANK 1	76.850	83.390	83.440	83.350	83.170	84.790	85.470	82.280	85.970	94.790
BANK 2	94.440	92.720	92.970	85.090	84.060	84.510	83.660	85.520	85.360	86.830
BANK 3	84.830	82.680	85.770	84.070	86.200	84.920	85.020	87.840	86.910	87.120
BANK 4	87.960	86.960	87.040	86.610	86.330	86.260	86.230	31.440	32.420	30.290
BANK 5	36.240	28.330	34.240	27.230	29.860	28.030	33.420	27.350	26.490	26.060
BANK 6	25.770	26.360	226.990	237.110	245.990	248.640	253.710	256.480	258.220	258.220
BANK 7	29.330	29.317	29.320	-2.350	41.970	48.310	0.013	0.013	0.012	0.012

80 READING AT 82269:2245

BANK 1	76.840	83.360	83.450	83.330	83.130	84.760	85.450	82.290	85.960	94.730
BANK 2	94.420	92.670	92.960	85.080	84.010	84.450	83.650	85.540	85.370	86.740
BANK 3	84.820	82.700	85.680	84.060	86.190	84.930	84.990	87.840	86.910	87.130
BANK 4	87.990	86.960	87.050	86.570	86.320	86.240	86.220	31.270	31.670	30.180
BANK 5	35.190	28.090	31.180	26.870	28.460	27.610	32.670	27.370	26.480	26.040
BANK 6	25.750	26.390	215.350	228.060	232.710	237.430	239.870	241.460	247.190	251.520
BANK 7	29.330	29.315	29.320	-2.500	42.020	48.370	0.013	0.013	0.012	0.012

81 READING AT 82269:2300

BANK 1	76.840	83.350	83.440	83.370	83.130	84.760	85.390	82.280	85.950	94.710
BANK 2	94.420	92.680	92.950	85.050	84.030	84.480	83.720	85.510	85.360	86.670
BANK 3	84.810	82.710	85.730	84.120	86.160	84.890	84.990	87.840	86.940	87.050
BANK 4	88.000	86.980	87.050	86.560	86.330	86.260	86.230	30.620	34.520	30.150
BANK 5	35.920	28.000	36.540	27.200	31.980	27.930	31.960	27.390	26.490	26.030
BANK 6	25.800	26.390	257.280	258.200	258.200	258.190	258.190	258.190	258.190	258.190
BANK 7	29.335	29.317	29.321	-2.600	42.030	48.320	0.013	0.013	0.012	0.012

82 READING AT 82269:2315

BANK 1	76.860	83.350	83.410	83.330	83.130	84.750	85.300	82.270	85.950	94.680
BANK 2	94.420	92.650	92.930	85.060	84.060	84.500	83.660	85.510	85.350	86.730
BANK 3	84.840	82.690	85.740	84.060	86.120	84.870	84.970	87.810	86.950	87.050
BANK 4	87.860	86.870	87.050	86.600	86.320	86.240	86.220	30.280	37.100	29.970
BANK 5	38.200	28.020	39.490	27.460	35.260	30.490	32.900	27.400	26.590	26.090

83 READING AT 82269:2320

BANK 1	76.870	83.340	83.400	83.330	83.130	84.730	85.380	82.270	85.930	94.630
BANK 2	24.400	22.660	22.710	85.070	84.010	84.450	83.680	85.520	85.340	86.770
BANK 3	84.910	82.680	85.750	84.080	86.140	84.210	84.920	87.780	86.860	87.070
BANK 4	87.730	86.870	87.050	86.590	86.330	86.220	86.190	30.180	33.000	29.840

BANK 5	35.960	28.230	33.840	26.870	29.940	28.310	33.300	27.390	26.650	26.040
BANK 6	26.000	26.360	243.110	253.970	254.340	258.180	258.170	258.170	258.170	258.170
BANK 7	29.329	29.315	29.317	-2.650	41.890	48.480	0.013	0.013	0.012	0.012

84 READING AT 82269:2345

BANK 1	76.860	83.310	83.390	83.310	83.120	84.730	85.400	82.260	85.930	94.600
BANK 2	24.400	22.640	22.900	85.030	83.970	84.470	83.670	85.520	85.330	86.700
BANK 3	84.810	82.670	85.650	84.050	86.170	84.870	84.990	87.780	86.890	87.120
BANK 4	87.780	86.860	87.020	86.600	86.250	86.210	86.190	30.520	32.010	30.210
BANK 5	34.520	28.320	30.990	26.610	28.440	27.690	33.110	27.410	26.630	26.050
BANK 6	25.980	26.400	219.090	230.180	235.980	238.470	240.840	245.260	247.990	250.000
BANK 7	29.326	29.313	29.312	-2.600	41.840	48.480	0.013	0.013	0.013	0.012

85 READING AT 82270:1 0

BANK 1	76.860	83.310	83.400	83.290	83.110	84.740	85.500	82.250	85.930	94.570
BANK 2	24.380	22.670	22.890	85.040	84.020	84.420	83.640	85.470	85.350	86.700
BANK 3	84.820	82.680	85.710	84.040	86.170	84.870	85.060	87.800	86.870	87.140
BANK 4	87.760	86.880	86.990	86.530	86.250	86.220	86.190	31.040	32.190	30.490
BANK 5	35.000	22.330	35.200	26.740	32.970	28.550	32.630	27.430	26.520	26.030
BANK 6	25.930	26.410	258.200	258.200	258.200	258.200	258.200	258.200	258.200	258.200
BANK 7	29.333	29.314	29.312	-2.590	41.910	48.470	0.014	0.013	0.012	0.012

86 READING AT 82270:1 15

BANK 1	76.860	83.260	83.390	83.300	83.110	84.730	85.440	82.240	85.910	94.520
BANK 2	24.370	22.630	22.860	85.040	83.960	84.460	83.620	85.470	85.350	86.690
BANK 3	84.800	82.640	85.670	84.060	86.180	84.860	85.040	87.830	86.860	87.080
BANK 4	87.830	86.860	87.000	86.530	86.260	86.210	86.180	31.690	34.410	30.770
BANK 5	38.960	22.680	38.850	27.150	36.210	29.350	32.910	27.390	26.500	26.010
BANK 6	25.840	26.410	258.260	258.250	258.250	258.250	258.250	258.250	258.250	258.250
BANK 7	29.333	29.314	29.321	-2.530	41.860	48.500	0.013	0.012	0.012	0.012

87 READING AT 82270:1 30

BANK 1	76.850	83.270	83.350	83.280	83.080	84.720	85.450	82.230	85.900	94.480
BANK 2	24.360	22.630	22.850	85.050	84.060	84.450	83.590	85.540	85.320	86.670
BANK 3	84.790	82.630	85.640	84.040	86.160	84.800	84.880	87.770	86.840	87.110
BANK 4	87.810	86.780	86.960	86.550	86.260	86.180	86.150	31.170	32.630	30.490
BANK 5	36.680	29.390	33.190	27.530	29.620	28.400	32.880	27.420	26.540	26.050
BANK 6	25.880	26.370	258.260	258.260	258.260	258.260	258.260	258.260	258.260	258.260
BANK 7	29.328	29.314	29.315	-2.510	42.000	48.600	0.013	0.012	0.012	0.012

88 READING AT 82270:1 45

BANK 1	76.850	83.250	83.390	83.230	83.070	84.710	85.340	82.230	85.900	94.490
BANK 2	24.350	22.630	22.820	85.050	83.980	84.410	83.580	85.470	85.330	86.650
BANK 3	84.760	82.620	85.700	84.020	86.130	84.780	84.990	87.780	86.800	87.040
BANK 4	87.770	86.770	86.960	86.460	86.230	86.170	86.140	31.000	32.080	30.340
BANK 5	35.350	28.620	30.820	26.980	28.180	27.740	32.790	27.440	26.520	26.080
BANK 6	25.870	26.390	227.020	237.480	241.190	246.000	247.970	247.760	250.590	251.590
BANK 7	29.324	29.311	29.314	-2.450	41.820	48.380	0.013	0.012	0.012	0.012

89 READING AT 82270:1 100

BANK 1	76.850	83.270	83.350	83.240	83.070	84.700	85.290	82.220	85.890	94.550
BANK 2	24.370	22.630	22.870	85.010	83.970	84.430	83.570	85.540	85.320	86.670

BANK 5 25,860 26,420 224,320 236,520 232,830 242,720 249,570 250,560 253,210 258,180
BANK 6 25,860 26,420 224,320 236,520 232,830 242,720 249,570 250,560 253,210 258,180
BANK 7 29,329 29,307 29,316 -2,450 41,890 49,700 0,013 0,012 0,012 0,012

90 READING AT 822701 115

BANK 1 76,870 83,230 83,360 83,250 83,040 84,680 85,450 82,210 85,880 94,590
BANK 2 94,320 92,620 92,820 84,980 83,940 84,420 83,600 85,450 85,316 86,680
BANK 3 84,790 82,610 85,680 83,990 86,120 84,810 84,840 87,730 86,820 87,070
BANK 4 87,890 86,800 86,990 86,480 86,160 86,150 86,140 81,180 84,376 80,390
BANK 5 37,840 27,910 39,000 27,520 34,240 28,930 33,050 27,420 31,550 26,070
BANK 6 25,790 26,400 225,110 237,570 240,340 247,340 251,270 252,220 254,670 256,470
BANK 7 29,331 29,312 29,317 -2,470 39,020 41,576 0,013 0,012 0,012 0,012

91 READING AT 822701 130

BANK 1 76,850 83,230 83,350 83,240 83,060 84,690 85,350 82,210 85,860 94,640
BANK 2 94,300 92,610 92,810 85,000 83,920 84,380 83,530 85,490 85,310 86,620
BANK 3 84,770 82,570 85,620 84,010 86,150 84,750 84,670 87,730 86,820 87,050
BANK 4 87,790 86,540 86,970 86,470 86,220 86,140 86,120 81,270 84,376 80,390
BANK 5 36,430 28,270 34,040 27,200 29,790 28,170 33,360 27,440 26,550 26,110
BANK 6 25,890 26,420 226,110 239,260 241,610 247,080 250,880 251,050 254,660 256,850
BANK 7 29,323 29,306 29,313 -2,370 38,990 41,350 0,013 0,012 0,012 0,012

92 READING AT 822701 145

BANK 1 76,850 83,240 83,300 83,240 83,050 84,670 85,370 82,200 85,860 94,650
BANK 2 94,290 92,600 92,810 84,960 83,940 84,410 83,640 85,420 85,300 86,610
BANK 3 84,780 82,550 85,630 83,940 86,140 84,740 84,900 87,730 86,770 86,990
BANK 4 87,640 86,800 86,940 86,480 86,210 86,110 86,100 81,180 84,376 80,390
BANK 5 35,020 27,970 31,260 26,810 28,660 27,600 32,610 27,450 26,530 26,080
BANK 6 25,820 26,440 258,340 258,390 258,340 258,340 258,330 258,330 258,330 258,330
BANK 7 29,323 29,304 29,311 -2,380 39,060 47,450 0,013 0,012 0,012 0,011

93 READING AT 822701 200

BANK 1 76,840 83,180 83,320 83,190 83,030 84,670 85,420 82,190 85,850 94,620
BANK 2 94,290 92,620 92,790 84,970 83,950 84,350 83,620 85,430 85,300 86,610
BANK 3 84,760 82,560 85,630 83,920 86,060 84,750 84,930 87,730 86,800 87,060
BANK 4 87,730 86,820 86,950 86,500 86,180 86,100 86,090 80,650 84,360 80,140
BANK 5 35,790 27,900 36,560 27,220 31,800 27,970 32,030 27,470 26,500 26,060
BANK 6 25,890 26,460 258,390 258,390 258,390 258,390 258,390 258,390 258,390 258,390
BANK 7 29,327 29,312 29,313 -2,410 39,060 47,220 0,013 0,012 0,011 0,011

94 READING AT 822701 215

BANK 1 76,820 83,230 83,290 83,220 83,010 84,670 85,330 82,180 85,830 94,570

BANK 2 94,280 92,550 92,770 84,960 83,920 84,380 83,550 85,450 85,290 86,600
BANK 3 84,740 82,560 85,660 83,930 86,110 84,740 84,880 87,760 86,750 86,980
BANK 4 87,650 86,880 86,890 86,450 86,170 85,960 86,080 80,190 84,360 80,930
BANK 5 38,240 28,010 39,190 27,430 35,110 28,390 32,920 27,480 26,550 26,050
BANK 6 26,020 26,420 258,430 258,430 258,430 258,430 258,430 258,430 258,430 258,430
BANK 7 29,329 29,310 29,318 -2,440 38,920 47,410 0,012 0,012 0,011 0,011

95 READING AT 822701 230

BANK 1 76,820 83,170 83,290 83,220 83,010 84,650 85,400 82,180 85,820 94,540
BANK 2 94,260 92,580 92,760 84,930 83,900 84,290 83,610 85,420 85,260 86,590
BANK 3 84,740 82,560 85,550 83,930 86,090 84,730 84,870 87,730 86,750 87,000
BANK 4 87,890 86,760 86,900 86,470 86,170 86,060 86,050 80,100 84,376 80,770
BANK 5 36,130 28,600 33,890 26,870 29,770 28,240 33,320 27,470 26,670 26,060
BANK 6 26,060 26,450 218,820 230,800 236,420 241,380 248,040 251,210 254,410 257,720
BANK 7 29,320 29,303 29,310 -2,430 38,820 47,620 0,012 0,011 0,011 0,011

96 READING AT 822701 245

BANK 1 76,840 83,150 83,290 83,190 82,990 84,650 85,400 82,180 85,820 94,510
BANK 2 94,260 92,540 92,750 84,930 83,880 84,350 83,580 85,400 85,270 86,570

BANK 5	34.900	29.330	31.250	26.610	29.270	27.660	33.010	27.490	26.720	26.080
BANK 6	26.650	26.770	220.880	242.530	258.520	258.520	258.520	258.520	258.520	258.520
BANK 7	29.322	29.302	29.309	-2.360	43.080	43.770	0.012	0.011	0.011	0.011

97 READING AT 82270: 300

BANK 1	76.820	83.140	83.310	83.160	82.990	84.640	86.250	82.170	85.810	94.480
BANK 2	94.240	92.530	92.740	84.900	83.880	84.300	83.490	85.390	85.250	86.560
BANK 3	84.730	82.540	86.230	83.890	86.050	84.710	84.880	87.700	86.770	86.980
BANK 4	87.570	86.710	86.860	86.430	86.180	84.490	86.040	31.030	32.160	30.580
BANK 5	34.900	29.270	35.170	26.760	32.720	28.650	32.650	27.520	26.590	26.070
BANK 6	26.570	26.800	221.400	243.630	254.810	258.520	258.520	258.520	258.520	258.520
BANK 7	29.325	29.306	29.312	-2.350	42.950	43.510	0.012	0.011	0.011	0.011

98 READING AT 82270: 315

BANK 1	76.820	83.130	83.280	83.170	82.980	84.630	86.160	82.150	85.800	94.450
BANK 2	94.240	92.550	92.720	84.900	83.860	84.320	83.550	85.420	85.260	86.550
BANK 3	84.720	82.560	86.250	83.880	86.090	84.700	84.900	87.690	86.820	86.910
BANK 4	87.630	86.730	86.850	86.410	86.180	84.260	86.020	31.680	34.250	30.770
BANK 5	38.200	29.600	38.640	27.200	35.750	29.490	33.050	27.470	26.550	26.050
BANK 6	26.420	26.770	217.510	240.480	254.330	258.530	258.530	258.530	258.520	258.520
BANK 7	29.326	29.311	29.313	-2.360	39.570	47.710	0.012	0.011	0.011	0.011

99 READING AT 82270: 330

BANK 1	76.830	83.150	83.250	83.190	82.960	84.620	86.120	82.150	85.790	94.410
BANK 2	94.220	92.500	92.700	84.910	83.840	84.310	83.600	85.400	85.230	86.530
BANK 3	84.720	82.510	86.240	83.870	86.090	84.660	84.770	87.610	86.770	86.920
BANK 4	87.700	86.680	86.800	86.440	86.140	84.370	85.990	31.190	32.770	30.410

BANK 5	36.730	29.410	33.230	27.440	29.230	28.550	32.920	27.490	26.600	26.110
BANK 6	26.430	26.750	247.220	258.530	258.530	258.530	258.520	258.520	258.530	258.530
BANK 7	29.320	29.307	29.308	-2.330	39.480	47.810	0.012	0.011	0.011	0.011

100 READING AT 82270: 345

BANK 1	76.840	83.150	83.250	83.150	82.950	84.620	86.090	82.140	85.780	94.390
BANK 2	94.200	92.520	92.690	84.910	83.840	84.340	83.550	85.430	85.230	86.560
BANK 3	84.700	82.510	86.190	83.810	86.040	84.660	84.780	87.690	86.800	86.970
BANK 4	87.580	86.710	86.820	86.360	86.080	84.090	85.980	30.950	32.040	30.360
BANK 5	35.310	28.660	30.790	26.990	28.080	27.750	32.800	27.520	26.580	26.130
BANK 6	26.690	27.030	243.500	258.530	258.530	258.530	258.530	258.530	258.530	258.530
BANK 7	29.319	29.302	29.306	-2.270	42.320	50.090	0.012	0.011	0.011	0.011

101 READING AT 82270: 400

BANK 1	76.850	83.160	83.230	83.140	82.940	84.600	85.900	82.140	85.770	94.380
BANK 2	94.210	92.510	92.680	84.890	83.820	84.290	83.510	85.420	85.230	86.580
BANK 3	84.700	82.500	86.040	83.830	86.070	84.640	84.750	87.720	86.660	86.950
BANK 4	87.560	86.760	86.830	86.410	86.080	84.670	86.000	31.060	32.850	30.510
BANK 5	36.060	28.220	36.120	27.030	30.830	28.250	32.470	27.520	26.600	26.130
BANK 6	26.310	26.730	258.540	258.540	258.540	258.550	258.550	258.540	258.540	258.540
BANK 7	29.320	29.302	29.309	-2.280	42.130	50.130	0.012	0.011	0.011	0.011

102 READING AT 82270: 415

BANK 1	76.850	83.120	83.230	83.140	82.940	84.610	86.130	82.160	85.770	94.330
BANK 2	94.200	92.450	92.660	84.900	83.830	84.310	83.590	85.380	85.220	86.530
BANK 3	84.690	82.500	86.130	83.850	86.050	84.660	84.810	87.610	86.640	86.910
BANK 4	87.570	86.650	86.790	86.360	86.120	84.470	85.970	31.120	35.170	30.520
BANK 5	37.770	27.870	38.610	27.540	34.100	29.040	33.080	27.500	26.610	26.120
BANK 6	26.350	26.790	227.390	248.590	258.560	258.560	258.560	258.560	258.550	258.550
BANK 7	29.319	29.304	29.310	-2.280	41.210	46.850	0.012	0.011	0.010	0.011

103 READING AT 82270: 430

BANK 1	76.840	83.110	83.260	83.110	82.920	84.590	86.050	82.130	85.750	94.280
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BANK 5	36,030	28,070	33,550	27,110	22,660	28,130	33,300	27,510	26,590	26,150
BANK 6	26,340	26,900	222,000	250,810	258,550	258,550	258,550	258,550	258,550	258,550
BANK 7	29,317	29,299	29,304	-2,170	41,330	46,930	0,012	0,011	0,011	0,011

104 READING AT 822701 445

BANK 1	76,870	83,060	83,190	83,130	82,920	84,580	85,940	82,120	85,740	94,240
BANK 2	94,170	92,490	92,640	84,850	83,790	84,260	83,600	85,380	85,220	86,460
BANK 3	84,680	82,430	86,130	83,790	86,050	84,640	84,840	87,640	86,610	86,880
BANK 4	87,560	86,680	86,790	86,340	86,010	84,570	85,920	31,690	30,280	30,280
BANK 5	34,970	27,850	30,570	26,750	28,470	27,540	32,680	27,530	26,580	26,130
BANK 6	26,250	26,810	235,950	252,550	258,550	258,550	258,550	258,550	258,540	258,540
BANK 7	29,314	29,297	29,302	-2,190	39,130	46,510	0,011	0,011	0,011	0,010

105 READING AT 822701 500

BANK 1	76,870	83,060	83,210	83,110	82,900	84,570	85,940	82,110	85,740	94,230
BANK 2	94,170	92,480	92,630	84,870	83,780	84,260	83,580	85,370	85,190	86,480
BANK 3	84,700	82,460	86,060	83,770	86,040	84,620	84,700	87,570	86,640	86,870
BANK 4	87,600	86,720	86,810	86,330	85,930	84,520	85,920	30,630	34,110	30,350
BANK 5	35,710	27,830	36,400	27,100	31,740	27,820	31,240	27,550	26,560	26,100
BANK 6	26,320	26,800	258,540	258,540	258,530	258,530	258,530	258,530	258,530	258,530
BANK 7	29,319	29,299	29,306	-2,220	39,310	46,620	0,012	0,011	0,011	0,011

106 READING AT 822701 515

BANK 1	76,880	83,060	83,220	83,110	82,910	84,560	85,780	82,100	85,740	94,190
BANK 2	94,150	92,460	92,620	84,870	83,790	84,260	83,470	85,320	85,180	86,540
BANK 3	84,670	82,450	85,920	83,750	86,050	84,600	84,710	87,540	86,580	86,890
BANK 4	87,530	86,660	86,740	86,280	85,940	84,640	85,910	30,300	36,640	29,950
BANK 5	38,020	27,820	39,130	27,410	35,000	28,390	32,930	27,530	26,580	26,080
BANK 6	26,430	26,750	258,520	258,520	258,520	258,520	258,520	258,520	258,510	258,510
BANK 7	29,319	29,302	29,308	-2,310	39,300	45,450	0,012	0,011	0,011	0,011

107 READING AT 822701 530

BANK 1	76,870	83,050	83,180	83,090	82,890	84,560	85,830	82,100	85,720	94,160
BANK 2	94,130	92,430	92,580	84,800	83,810	84,260	83,520	85,300	85,160	86,420
BANK 3	84,660	82,450	85,990	83,780	86,010	84,570	84,790	87,570	86,530	86,860
BANK 4	87,530	86,610	86,750	86,300	85,970	84,610	85,870	30,110	32,950	29,830
BANK 5	35,970	27,960	33,640	26,750	29,840	28,170	33,290	27,520	26,700	26,110
BANK 6	26,500	26,750	222,330	239,190	250,970	258,500	258,490	258,490	258,490	258,490
BANK 7	29,314	29,295	29,302	-2,250	39,080	45,530	0,012	0,011	0,011	0,011

108 READING AT 822701 600

BANK 1	76,840	82,990	83,160	83,080	82,870	84,540	85,160	82,090	85,700	94,090
BANK 2	94,110	92,420	92,560	84,800	83,730	84,240	83,640	85,340	85,170	86,400
BANK 3	84,650	82,430	85,400	83,710	86,050	84,610	84,720	87,560	86,560	86,790
BANK 4	87,470	86,580	86,690	86,320	85,940	85,940	85,880	30,950	32,070	30,530
BANK 5	34,980	27,290	35,140	26,660	32,670	28,590	32,790	27,550	26,590	26,080
BANK 6	26,060	26,430	258,380	258,370	258,370	258,380	258,380	258,380	258,370	258,370
BANK 7	29,316	29,299	29,303	-2,250	40,020	45,580	0,012	0,011	0,011	0,011

109 READING AT 822701 615

BANK 1	76,840	83,060	83,150	83,070	82,880	84,510	85,220	82,080	85,680	94,070
BANK 2	94,090	92,420	92,550	84,790	83,740	84,260	83,460	85,360	85,160	86,460
BANK 3	84,630	82,420	85,350	83,740	85,980	84,590	84,770	87,500	86,530	86,800
BANK 4	87,420	86,630	86,740	86,300	85,950	85,920	85,860	31,610	33,920	30,670
BANK 5	38,370	27,560	38,450	27,060	35,560	29,320	32,880	27,510	26,620	26,050
BANK 6	25,910	26,460	258,420	258,420	258,420	258,420	258,420	258,420	258,420	258,420
BANK 7	29,317	29,302	29,306	-2,310	39,850	45,780	0,012	0,011	0,011	0,011

110 READING AT 822701 630

BANK 1	76,860	83,000	83,150	83,030	82,860	84,510	85,170	82,070	85,680	94,060
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BANK 2	24,030	92,380	92,530	84,760	83,760	84,190	83,470	85,280	85,160	86,450
BANK 3	84,630	82,410	85,430	83,690	86,010	84,560	84,630	87,440	86,460	86,810
BANK 4	87,500	86,480	86,680	86,270	85,960	85,900	85,830	31,020	32,580	30,400
BANK 5	26,520	29,340	32,920	27,430	22,340	28,470	32,880	27,540	26,650	26,110
BANK 6	23,220	26,430	258,420	258,420	258,410	258,410	258,410	258,410	258,410	258,410
BANK 7	29,311	29,227	29,229	-2,190	39,350	45,440	0,012	0,011	0,011	0,011

111. READING AT 822701 645

BANK 1	76,870	83,000	83,090	83,040	82,840	84,500	85,120	82,070	85,670	94,010
BANK 2	94,070	92,320	92,500	84,770	83,730	84,170	83,310	85,300	85,120	86,410
BANK 3	84,620	82,390	85,360	83,670	86,000	84,510	84,670	87,540	86,510	86,720
BANK 4	87,340	86,300	86,640	86,200	85,910	85,880	85,810	30,940	31,950	30,370
BANK 5	35,020	28,540	30,270	26,880	27,920	27,750	32,840	27,570	26,630	26,130
BANK 6	25,250	26,450	258,400	258,390	258,390	258,400	258,390	258,390	258,390	258,390
BANK 7	29,309	29,222	29,223	-2,180	39,390	45,580	0,012	0,011	0,011	0,011

112. READING AT 822701 700

BANK 1	76,840	83,000	83,140	83,030	82,840	84,500	85,130	82,070	85,660	93,980
BANK 2	94,060	92,410	92,510	84,720	83,730	84,190	83,480	82,340	85,140	96,370
BANK 3	84,630	82,400	85,400	83,660	85,980	84,560	84,600	87,420	86,500	86,780
BANK 4	87,510	86,630	86,640	86,220	85,940	85,880	85,820	31,050	32,740	30,420
BANK 5	35,200	28,130	36,120	26,920	30,220	28,380	31,580	27,570	26,640	26,110
BANK 6	25,880	26,450	225,200	237,230	239,200	243,040	248,280	249,500	250,870	250,870
BANK 7	29,310	29,224	29,228	-2,000	38,200	48,410	0,012	0,012	0,012	0,011

113. READING AT 822701 715

BANK 1	76,840	83,020	83,080	83,020	82,820	84,460	85,180	82,060	85,650	93,250
BANK 2	94,050	92,370	92,480	84,730	83,680	84,140	83,520	85,280	85,130	86,360
BANK 3	84,670	82,340	85,360	83,610	85,980	84,520	84,640	87,440	86,470	86,750
BANK 4	87,440	86,550	86,640	86,200	85,940	85,860	85,810	31,180	34,200	30,450
BANK 5	37,480	27,770	38,730	27,250	34,520	29,030	32,010	27,520	26,650	26,100
BANK 6	25,880	26,450	216,120	228,560	230,510	234,020	237,130	238,610	239,100	243,670
BANK 7	29,313	29,228	29,229	-1,980	38,810	47,260	0,012	0,011	0,010	0,011

114. READING AT 822701 730

BANK 1	76,830	82,990	83,100	83,040	82,800	84,480	85,170	82,040	85,640	93,200
BANK 2	94,020	92,360	92,470	84,730	83,710	84,200	83,340	85,250	85,120	86,280
BANK 3	84,600	82,340	85,360	83,580	85,970	84,540	84,710	87,440	86,480	86,750
BANK 4	87,420	86,540	86,640	86,250	85,680	85,840	85,770	31,320	32,180	30,240
BANK 5	35,940	28,090	34,750	27,120	29,250	28,120	32,940	27,540	26,640	26,130
BANK 6	25,870	26,450	228,630	237,530	242,210	248,130	250,910	252,320	253,310	258,360
BANK 7	29,309	29,222	29,227	-1,860	38,870	48,200	0,011	0,011	0,010	0,010

115. READING AT 822701 745

BANK 1	76,840	82,980	83,050	82,980	82,810	84,460	85,230	82,040	85,640	93,880
BANK 2	94,020	92,330	92,440	84,740	83,710	84,090	83,230	85,240	85,120	86,350
BANK 3	84,620	82,340	85,290	83,600	85,950	84,510	84,630	87,490	86,410	86,670
BANK 4	87,490	86,420	86,590	86,180	85,840	85,820	85,760	31,200	31,570	30,270

BANK 5	24,870	27,740	32,790	26,770	28,160	27,660	32,070	27,560	26,650	26,110
BANK 6	25,810	26,480	258,340	258,340	258,340	258,340	258,340	258,340	258,340	258,330
BANK 7	29,306	29,223	29,224	-1,970	38,100	46,860	0,011	0,011	0,010	0,010

116. READING AT 822701 800

BANK 1	76,840	82,980	83,050	82,980	82,780	84,450	85,150	82,030	85,620	93,910
BANK 2	94,010	92,310	92,430	84,710	83,670	84,190	83,360	85,240	85,100	86,320
BANK 3	84,610	82,340	85,330	83,610	85,920	84,510	84,570	87,450	86,450	86,630
BANK 4	87,530	86,420	86,620	86,230	85,880	85,870	85,750	30,660	34,210	30,200
BANK 5	35,610	27,920	36,630	27,060	31,970	27,970	31,830	27,550	26,620	26,100
BANK 6	25,850	26,510	226,270	236,430	239,570	243,080	248,620	249,240	253,460	254,340
BANK 7	29,310	29,225	29,226	-1,850	38,880	47,280	0,011	0,011	0,011	0,011

BANK 5 36,520 22,260 32,290 27,430 29,340 28,470 32,890 27,540 26,650 26,110
 BANK 6 25,920 26,430 258,420 258,420 258,410 258,410 258,410 258,410 258,410 258,410
 BANK 7 29,311 29,297 29,299 -2,190 39,350 45,440 0,012 0,011 0,011 0,011

111 READING AT 822701 645

BANK 1 76,870 83,000 83,090 83,040 82,840 84,500 85,120 82,070 85,670 94,010
 BANK 2 94,070 92,390 92,500 84,770 83,740 84,170 83,310 85,300 95,120 86,410
 BANK 3 84,620 82,390 83,360 83,670 86,000 84,510 84,670 87,490 86,510 86,720
 BANK 4 87,360 86,500 86,640 86,200 85,910 85,890 85,810 30,940 31,950 30,370
 BANK 5 35,020 29,540 30,270 26,880 27,270 27,750 32,840 27,570 26,630 26,130
 BANK 6 25,950 26,450 258,400 258,390 258,390 258,390 258,390 258,390 258,390 258,390
 BANK 7 29,309 29,292 29,293 -2,180 39,390 45,580 0,012 0,011 0,011 0,011

112 READING AT 822701 700

BANK 1 76,840 83,000 83,140 83,030 82,840 84,500 85,130 82,070 85,660 93,980
 BANK 2 94,060 92,410 92,510 84,720 83,730 84,170 83,480 85,340 95,140 86,370
 BANK 3 84,630 82,400 83,400 83,660 85,980 84,560 84,600 87,490 86,500 86,780
 BANK 4 87,510 86,530 86,640 86,220 85,940 85,880 85,820 32,740 30,420 30,420
 BANK 5 35,200 28,130 36,120 26,920 30,220 28,380 31,580 27,570 26,640 26,110
 BANK 6 25,880 26,450 225,200 237,230 239,200 243,040 248,280 249,500 250,870 250,870
 BANK 7 29,310 29,294 29,298 -2,000 39,300 48,410 0,012 0,012 0,012 0,011

113 READING AT 822701 715

BANK 1 76,840 83,020 83,080 83,020 82,820 84,480 85,180 92,060 85,650 93,950
 BANK 2 94,020 92,370 92,480 84,730 83,680 84,140 83,520 85,280 95,130 86,360
 BANK 3 84,620 82,340 83,360 83,610 85,980 84,520 84,640 87,440 86,470 86,750
 BANK 4 87,440 86,550 86,640 86,200 85,940 85,860 85,810 31,180 34,900 30,450
 BANK 5 37,480 27,770 38,730 27,250 34,520 29,030 32,010 27,520 26,650 26,100
 BANK 6 25,880 26,450 216,120 228,560 230,510 234,020 237,130 238,610 243,100 243,670
 BANK 7 29,313 29,298 29,299 -1,980 38,810 47,260 0,012 0,011 0,010 0,011

114 READING AT 822701 730

BANK 1 76,830 82,920 83,100 83,040 82,800 84,480 85,170 92,040 95,640 93,900
 BANK 2 94,020 92,360 92,470 84,730 83,710 84,200 83,340 85,250 95,120 86,280
 BANK 3 84,600 82,340 83,360 83,580 85,970 84,540 84,710 87,440 86,480 86,750
 BANK 4 87,420 86,540 86,640 86,250 85,980 85,840 85,770 31,320 32,180 30,240
 BANK 5 35,940 28,020 34,750 27,120 29,250 28,120 32,940 27,540 26,640 26,130
 BANK 6 25,870 26,450 228,630 237,530 242,910 248,130 250,910 252,320 255,310 258,360
 BANK 7 29,309 29,292 29,297 -1,860 38,870 48,200 0,011 0,011 0,010 0,010

115 READING AT 822701 745

BANK 1 76,840 82,980 83,050 82,980 82,810 84,440 85,230 92,040 95,640 93,890
 BANK 2 94,020 92,330 92,440 84,740 83,710 84,090 83,230 85,240 95,120 86,350
 BANK 3 84,620 82,340 83,360 83,600 85,950 84,510 84,630 87,490 86,410 86,670
 BANK 4 87,490 86,420 86,590 86,180 85,840 85,820 85,760 31,200 31,570 30,270

BANK 5 34,820 27,740 32,790 26,770 28,160 27,660 32,070 27,560 26,650 26,110
 BANK 6 25,810 26,480 258,340 258,340 258,340 258,340 258,340 258,340 258,340 258,340
 BANK 7 29,306 29,293 29,294 -1,970 38,100 46,860 0,011 0,011 0,010 0,010

116 READING AT 822701 800

BANK 1 76,840 82,980 83,050 82,990 82,780 84,450 85,150 92,030 95,620 93,910
 BANK 2 94,010 92,310 92,430 84,710 83,670 84,190 83,360 85,240 95,100 86,320
 BANK 3 84,610 82,340 83,360 83,610 85,920 84,510 84,570 87,450 86,450 86,630
 BANK 4 87,530 86,420 86,620 86,230 85,880 85,820 85,750 30,660 34,210 30,200
 BANK 5 35,610 27,920 36,620 27,060 31,970 27,970 31,890 27,550 26,620 26,100
 BANK 6 25,850 26,510 226,270 236,430 239,570 243,080 248,620 249,240 253,660 254,340
 BANK 7 29,310 29,298 29,299 -2,020 38,000 46,680 0,011 0,011 0,011 0,011

117 READING AT 822701 815

BANK 1 76,850 82,950 83,030 82,980 82,800 84,440 85,130 92,040 95,610 93,890
 BANK 2 94,000 92,320 92,430 84,730 83,750 84,090 83,350 85,240 95,100 86,320

BANK 5	20.050	27.260	32.200	27.420	35.170	23.440	32.770	27.530	26.530	26.020
BANK 6	25.930	26.520	238.920	245.870	249.410	253.940	255.340	258.160	258.270	258.270
BANK 7	29.310	29.296	29.299	-2.020	40.310	46.970	0.012	0.011	0.010	0.011

118 READING AT 822701 830

BANK 1	76.840	82.940	83.030	82.990	82.770	84.450	85.160	82.020	85.600	93.890
BANK 2	94.000	92.330	92.410	84.700	83.650	84.050	83.370	85.260	85.070	86.250
BANK 3	84.610	82.330	85.320	83.560	85.940	84.450	84.590	87.390	86.370	86.640
BANK 4	87.360	86.440	86.600	86.140	85.820	85.760	85.720	30.010	32.840	29.760
BANK 5	35.790	28.090	33.290	26.840	29.570	28.030	33.360	27.550	26.690	26.100
BANK 6	26.060	26.520	216.300	228.670	230.220	235.510	237.820	239.150	242.110	246.950
BANK 7	29.305	29.289	29.293	-1.980	40.390	47.000	0.012	0.011	0.011	0.011

119 READING AT 822701 845

BANK 1	76.830	82.900	83.050	82.960	82.750	84.420	85.110	82.010	85.600	93.860
BANK 2	93.970	92.290	92.400	84.660	83.640	84.050	83.360	85.220	85.070	86.290
BANK 3	84.590	82.320	85.270	83.570	85.950	84.460	84.680	87.420	86.380	86.660
BANK 4	87.460	86.450	86.550	86.170	85.830	85.750	85.700	30.380	31.960	30.070
BANK 5	34.270	28.010	30.740	26.430	28.170	27.430	32.890	27.620	26.680	26.090
BANK 6	26.080	26.540	218.310	222.440	234.160	237.850	238.510	241.020	244.210	247.260
BANK 7	29.301	29.287	29.291	-1.980	38.360	46.750	0.012	0.011	0.011	0.011

120 READING AT 822701 900

BANK 1	76.830	82.920	83.050	82.940	82.760	84.420	85.110	81.990	85.580	93.860
BANK 2	93.960	92.250	92.400	84.670	83.690	84.080	83.340	85.190	85.070	86.300
BANK 3	84.610	82.300	85.250	83.520	85.870	84.450	84.630	87.400	86.360	86.710
BANK 4	87.430	86.490	86.540	86.170	85.790	85.740	85.700	30.840	31.970	30.530
BANK 5	34.700	29.220	34.960	26.630	32.420	28.410	32.690	27.590	26.610	26.070
BANK 6	25.960	26.530	258.430	258.430	258.430	258.430	258.430	258.420	258.430	258.430
BANK 7	29.307	29.290	29.294	-1.930	38.120	46.750	0.011	0.011	0.010	0.011

121 READING AT 822701 915

BANK 1	76.860	82.880	83.050	82.950	82.740	84.410	85.100	81.990	85.580	93.840
BANK 2	93.950	92.270	92.370	84.670	83.660	84.110	83.300	85.200	85.030	86.250
BANK 3	84.570	82.290	85.170	83.550	85.900	84.470	84.620	87.410	86.390	86.630
BANK 4	87.360	86.380	86.530	86.150	85.750	85.740	85.700	31.460	33.870	30.590
BANK 5	38.360	29.560	38.420	27.030	35.580	29.160	32.700	27.560	26.660	26.050
BANK 6	25.840	26.510	251.190	258.540	258.540	258.530	258.530	258.530	258.530	258.530
BANK 7	29.307	29.295	29.296	-1.940	40.240	48.900	0.012	0.010	0.010	0.010

122 READING AT 822701 930

BANK 1	76.820	82.880	83.020	82.930	82.750	84.380	85.140	81.980	85.560	93.800
BANK 2	93.920	92.270	92.340	84.640	83.590	84.130	83.270	85.190	85.030	86.230
BANK 3	84.550	82.280	85.230	83.550	85.860	84.440	84.550	87.370	86.290	86.510
BANK 4	87.430	86.350	86.530	86.130	85.760	85.700	85.650	31.070	32.420	30.270
BANK 5	36.520	29.250	33.000	27.360	29.060	28.250	32.720	27.580	26.670	26.100
BANK 6	25.920	26.490	213.460	229.230	228.860	231.430	234.700	238.140	241.320	244.960
BANK 7	29.302	29.283	29.289	-1.900	40.080	48.680	0.010	0.010	0.010	0.010

123 READING AT 822701 945

BANK 1	76.830	82.880	82.970	82.870	82.740	84.380	85.170	81.970	85.550	93.760
BANK 2	93.910	92.250	92.330	84.630	83.610	84.080	83.170	85.220	85.030	86.220
BANK 3	84.540	82.260	85.170	83.530	85.900	84.420	84.550	87.340	86.280	86.520
BANK 4	87.370	86.220	86.480	86.070	85.770	85.670	85.640	30.600	31.840	30.240
BANK 5	35.140	28.590	30.350	26.730	27.940	27.560	32.610	27.600	26.660	26.110
BANK 6	26.050	26.520	252.220	259.700	259.700	259.700	259.700	259.700	259.700	259.700
BANK 7	29.299	29.283	29.287	-1.890	40.080	48.830	0.010	0.009	0.009	0.009

124 READING AT 822701 1000

BANK 1	76.830	82.850	82.970	82.910	82.710	84.380	86.710	81.970	85.540	93.730
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125

READING AT 8227011015

BANK 1	76,890	82,810	82,940	82,870	82,700	84,350	85,020	81,940	85,520	93,680
BANK 2	23,880	82,210	92,290	84,600	83,590	83,990	83,230	85,170	85,010	86,210
BANK 3	84,510	82,240	85,120	83,480	85,840	84,390	84,520	87,310	86,370	86,590
BANK 4	87,390	86,320	86,440	86,080	85,720	85,680	85,620	30,870	34,940	30,390
BANK 5	27,510	27,740	38,650	27,370	33,830	28,720	32,860	27,540	26,650	26,020
BANK 6	25,850	26,430	219,700	233,850	236,530	240,520	246,570	249,000	254,450	257,440
BANK 7	29,304	29,288	29,221	-2,360	38,620	47,190	0,009	0,009	0,009	0,009

126

READING AT 8227011030

BANK 1	76,860	82,840	82,920	82,880	82,690	84,360	85,460	81,930	85,490	93,650
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127

READING AT 8227011045

BANK 2	23,860	92,190	92,260	84,520	83,560	84,010	93,230	85,100	85,010	86,210
BANK 3	84,520	82,200	85,130	83,430	85,860	84,370	84,580	87,270	86,290	86,580
BANK 4	87,340	86,290	86,430	86,050	85,690	85,570	85,580	31,260	32,040	30,160
BANK 5	35,880	28,010	34,510	27,020	22,000	28,010	33,100	27,540	26,640	26,120
BANK 6	26,010	26,580	258,860	258,850	258,860	258,860	258,850	258,850	258,850	258,850
BANK 7	29,298	29,284	29,286	-2,600	46,080	47,160	0,009	0,008	0,008	0,008

128

READING AT 8227011100

BANK 1	76,850	82,870	82,950	82,870	82,690	84,340	85,310	81,940	85,510	93,620
BANK 2	23,860	92,230	92,260	84,600	83,530	84,030	83,400	85,110	84,990	86,170
BANK 3	84,520	82,180	85,360	83,430	85,860	84,360	84,440	87,280	86,240	86,500
BANK 4	87,270	86,370	86,460	86,030	85,650	85,100	85,590	30,570	33,780	30,050
BANK 5	35,440	27,720	35,020	26,880	30,810	27,770	31,820	27,370	26,660	26,080
BANK 6	26,050	26,580	258,490	258,490	258,480	258,490	258,490	258,490	258,480	258,480
BANK 7	29,300	29,286	29,290	-2,160	45,820	47,200	0,010	0,009	0,009	0,009

129

READING AT 8227011115

BANK 1	76,830	82,880	82,910	82,870	82,670	84,340	85,330	81,940	85,510	93,600
BANK 2	23,850	92,220	92,260	84,610	83,530	83,950	83,100	85,100	84,970	86,140
BANK 3	84,520	82,190	85,330	83,460	85,820	84,370	84,510	87,300	86,310	86,560
BANK 4	87,350	86,270	86,470	86,040	85,670	85,050	85,560	30,060	36,320	29,840
BANK 5	37,650	27,740	39,180	27,050	33,710	28,370	32,880	27,570	26,580	26,080
BANK 6	26,200	26,620	163,220	175,910	180,960	184,920	182,620	193,000	197,900	201,560
BANK 7	29,300	29,284	29,289	-1,550	46,740	47,920	0,011	0,010	0,010	0,010

130

READING AT 8227011130

BANK 1	76,800	82,820	82,940	82,850	82,680	84,330	85,370	81,930	85,490	93,580
BANK 2	23,850	92,210	92,240	84,570	83,530	83,990	83,170	85,110	84,990	86,160
BANK 3	84,520	82,170	85,310	83,450	85,850	84,360	84,450	87,230	86,270	86,540
BANK 4	87,350	86,220	86,420	86,060	85,650	85,130	85,540	30,030	37,670	29,570
BANK 5	35,860	27,880	34,620	27,130	30,040	28,070	33,240	27,580	26,660	26,090
BANK 6	26,300	26,650	145,320	152,600	152,150	151,810	142,610	147,560	145,520	144,550
BANK 7	29,295	29,284	29,281	-2,050	46,240	47,120	0,011	0,010	0,010	0,010

131

READING AT 8227011145

BANK 1	76,820	82,840	82,910	82,810	82,640	84,310	85,240	81,910	85,490	93,570
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BANK 3	84,540	82,260	86,280	83,470	85,210	84,430	84,570	87,310	86,300	86,620
BANK 4	87,410	86,240	86,410	86,060	85,750	82,550	85,580	31,010	32,560	30,320
BANK 5	26,000	29,020	35,210	26,250	30,440	28,080	32,270	27,600	26,660	26,100
BANK 6	26,810	27,100	233,660	258,790	258,790	258,790	258,790	258,790	258,790	258,790
BANK 7	29,302	29,287	29,289	-2,620	38,240	47,230	0,010	0,009	0,009	0,009

125 READING AT 82270:1015

BANK 1	76,880	82,810	82,940	82,870	82,700	84,350	85,090	81,940	85,520	93,680
BANK 2	93,680	92,210	92,290	84,600	83,590	83,990	83,230	85,170	85,010	86,210
BANK 3	84,510	82,240	85,120	83,480	83,840	84,390	84,520	87,310	86,590	86,590
BANK 4	87,390	86,320	86,440	86,080	85,720	85,680	85,620	30,870	34,240	30,390
BANK 5	37,510	27,740	38,650	27,370	33,830	28,720	32,860	27,540	26,650	26,090
BANK 6	25,850	26,430	219,700	233,850	236,530	240,520	246,570	249,000	254,450	257,440
BANK 7	29,304	29,288	29,291	-2,360	38,620	47,190	0,009	0,009	0,009	0,009

126 READING AT 82270:1030

BANK 1	76,860	82,840	82,920	82,880	82,690	84,360	85,460	81,930	85,490	93,650
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BANK 2	93,860	92,190	92,260	84,520	83,560	84,010	83,230	85,100	85,010	86,210
BANK 3	84,520	82,200	85,130	83,430	85,860	84,370	84,580	87,270	86,220	86,580
BANK 4	87,340	86,290	86,430	86,030	85,680	85,570	85,580	31,260	32,040	30,160
BANK 5	35,880	28,010	34,510	27,090	29,000	28,010	33,100	27,540	26,640	26,120
BANK 6	26,010	26,580	258,860	258,850	258,860	258,860	258,850	258,850	258,850	258,850
BANK 7	29,298	29,284	29,286	-2,600	46,080	47,160	0,009	0,008	0,008	0,008

127 READING AT 82270:1045

BANK 1	76,860	82,800	82,930	82,870	82,680	84,330	85,440	81,930	85,500	93,620
BANK 2	93,850	92,190	92,250	84,570	83,510	83,980	83,140	85,130	84,990	86,200
BANK 3	84,520	82,190	85,330	83,420	85,870	84,320	84,420	87,260	86,260	86,530
BANK 4	87,230	86,200	86,460	86,040	85,690	84,930	85,560	31,150	31,480	30,170
BANK 5	34,660	27,700	31,400	26,740	28,220	27,490	32,390	27,560	26,650	26,120
BANK 6	25,990	26,600	229,490	243,060	252,890	257,410	258,460	258,460	258,460	258,460
BANK 7	29,296	29,284	29,284	-2,290	45,930	47,130	0,009	0,008	0,006	0,008

128 READING AT 82270:1100

BANK 1	76,850	82,870	82,950	82,870	82,690	84,340	85,310	81,940	85,510	93,620
BANK 2	93,860	92,230	92,260	84,600	83,530	84,080	83,400	85,110	84,990	86,170
BANK 3	84,520	82,180	85,360	83,430	85,860	84,360	84,440	87,280	86,240	86,560
BANK 4	87,270	86,370	86,460	86,030	85,650	85,100	85,580	30,570	33,780	30,050
BANK 5	35,440	27,720	35,090	26,880	30,810	27,770	31,820	27,570	26,660	26,080
BANK 6	26,050	26,580	258,490	258,490	258,490	258,480	258,490	258,490	258,490	258,480
BANK 7	29,300	29,286	29,290	-2,160	45,820	47,200	0,010	0,009	0,009	0,009

129 READING AT 82270:1115

BANK 1	76,830	82,880	82,910	82,870	82,670	84,340	85,330	81,940	85,510	93,600
BANK 2	93,850	92,220	92,260	84,610	83,530	83,230	83,100	85,100	84,270	86,140
BANK 3	84,520	82,190	85,330	83,460	85,820	84,370	84,510	87,300	86,310	86,560
BANK 4	87,350	86,270	86,470	86,040	85,670	85,050	85,560	30,060	36,320	29,840
BANK 5	37,650	27,740	38,180	27,050	33,710	28,370	32,880	27,570	26,580	26,080
BANK 6	26,200	26,620	163,220	175,910	180,260	184,920	189,620	193,000	197,900	201,560
BANK 7	29,300	29,284	29,289	-1,550	46,740	47,920	0,011	0,010	0,010	0,010

130 READING AT 82270:1130

BANK 1	76,800	82,820	82,940	82,850	82,680	84,330	85,370	81,930	85,490	93,580
BANK 2	93,850	92,210	92,240	84,570	83,530	83,990	83,170	85,110	84,990	86,160
BANK 3	84,520	82,170	85,310	83,450	85,850	84,260	84,450	87,230	86,270	86,540
BANK 4	87,350	86,220	86,420	86,060	85,650	85,130	85,540	30,730	32,670	29,570
BANK 5	35,860	27,880	24,620	27,130	30,040	28,070	33,240	27,580	26,660	26,090
BANK 6	26,300	26,650	145,390	152,600	152,150	151,910	149,610	147,560	145,520	144,550
BANK 7	29,295	29,284	29,281	-2,050	46,240	47,120	0,011	0,010	0,010	0,010

BANK 2	93.830	92.150	92.220	84.570	83.450	83.250	83.270	85.100	84.970	86.210
BANK 3	84.500	82.160	85.260	83.360	85.870	84.360	84.490	87.280	86.270	86.520
BANK 4	87.580	86.220	86.410	86.040	85.660	85.240	85.540	30.340	31.780	29.980

BANK 5	34.220	28.220	30.780	26.700	28.080	27.400	32.890	27.590	26.630	26.070
BANK 6	26.230	26.590	143.390	157.040	164.950	167.100	174.640	177.800	180.500	135.210
BANK 7	29.294	29.283	29.283	-1.850	41.070	49.630	0.011	0.011	0.010	0.010

132 READING AT 82270:1200

BANK 1	76.860	82.830	82.950	82.850	82.660	84.330	86.060	81.920	85.480	93.560
BANK 2	93.830	92.190	92.220	84.580	83.530	83.910	93.180	85.120	84.950	86.140
BANK 3	84.510	82.160	85.790	83.390	85.830	84.360	84.470	87.240	86.290	86.480
BANK 4	87.270	86.260	86.380	85.980	85.660	84.040	85.520	30.760	31.380	30.470
BANK 5	34.680	29.280	34.890	26.790	32.190	28.310	32.560	27.390	26.640	26.070
BANK 6	26.490	26.900	154.180	173.350	182.630	190.770	200.150	209.540	217.040	227.600
BANK 7	29.298	29.285	29.287	-1.800	40.970	49.370	0.011	0.010	0.010	0.010

133 READING AT 82270:1215

BANK 1	76.870	82.790	82.910	82.810	82.650	84.230	85.130	81.910	85.460	93.520
BANK 2	93.810	92.180	92.210	84.550	83.510	83.940	93.150	85.090	84.960	86.120
BANK 3	84.500	82.170	85.020	83.420	85.860	84.370	84.450	87.270	86.260	86.470
BANK 4	87.380	86.300	86.430	85.980	85.600	85.580	85.520	31.470	33.860	30.600
BANK 5	38.260	29.600	38.240	27.080	35.100	29.200	32.650	27.580	26.680	26.050
BANK 6	25.850	26.490	258.460	258.460	258.460	258.460	258.460	258.450	258.450	258.450
BANK 7	29.301	29.288	29.286	-1.840	41.100	49.410	0.011	0.011	0.010	0.010

134 READING AT 82270:1230

BANK 1	76.850	82.760	82.930	82.830	82.630	84.300	85.190	81.910	85.460	93.500
BANK 2	93.790	92.170	92.190	84.530	83.490	84.010	93.230	85.080	84.950	86.160
BANK 3	84.480	82.160	85.140	83.410	85.850	84.330	84.440	87.280	86.240	86.470
BANK 4	87.170	86.240	86.410	85.950	85.610	85.480	85.500	31.040	32.260	30.260
BANK 5	36.250	29.100	32.890	27.410	29.050	28.310	32.750	27.600	26.680	26.110
BANK 6	26.000	26.490	177.150	189.130	190.200	194.380	196.680	197.070	198.900	200.880
BANK 7	29.294	29.283	29.281	-1.720	40.770	49.720	0.012	0.011	0.011	0.011

135 READING AT 82270:1245

BANK 1	76.830	82.800	82.890	82.820	82.630	84.280	86.200	81.900	85.460	93.520
BANK 2	93.780	92.150	92.180	84.550	83.500	84.010	93.110	85.070	84.950	86.190
BANK 3	84.480	82.140	85.920	83.420	85.840	84.340	84.450	87.250	86.270	86.500
BANK 4	87.100	86.150	86.360	86.010	85.560	83.110	85.460	30.790	31.830	30.170
BANK 5	35.040	28.520	30.400	26.980	27.850	27.470	32.640	27.640	26.690	26.120
BANK 6	26.630	27.070	258.250	258.250	258.250	258.240	258.250	258.250	258.250	258.240
BANK 7	29.292	29.275	29.280	-1.700	41.320	48.370	0.012	0.011	0.011	0.011

136 READING AT 82270:1300

BANK 1	76.820	82.790	82.910	82.820	82.620	84.280	84.990	81.900	85.450	93.570
BANK 2	93.790	92.160	92.170	84.520	83.440	83.950	93.160	85.080	84.940	86.130
BANK 3	84.490	82.130	85.050	83.400	85.790	84.390	84.470	87.260	86.250	86.510
BANK 4	87.250	86.200	86.310	85.990	85.590	85.560	85.500	30.920	32.320	30.340
BANK 5	35.730	28.070	35.700	26.940	30.340	28.100	32.190	27.640	26.690	26.100
BANK 6	25.990	26.460	254.080	258.190	258.190	258.190	258.190	258.190	258.190	258.190
BANK 7	29.295	29.278	29.283	-1.730	40.990	48.130	0.013	0.012	0.011	0.012

137 READING AT 82270:1315

BANK 1	76.840	82.760	82.890	82.790	82.600	84.280	84.960	81.890	85.440	93.710
BANK 2	93.760	92.090	92.160	84.510	83.490	83.960	93.160	85.070	84.920	86.180
BANK 3	84.480	82.100	85.020	83.340	85.800	84.310	84.480	87.250	86.220	86.490
BANK 4	87.270	86.180	86.350	85.910	85.590	85.540	85.480	30.840	34.780	30.340

BANK 6	26.300	26.780	23.140	243.930	249.410	257.880	258.430	258.430	258.430	258.430
BANK 7	29.293	29.267	29.279	-1.670	40.960	48.320	0.002	0.011	0.011	0.011

145 READING AT 82270:1515

BANK 1	76.520	82.700	82.720	82.720	82.540	84.220	85.500	81.840	85.350	93.700
BANK 2	23.660	22.020	22.020	84.320	83.430	83.880	83.090	85.500	84.810	86.120
BANK 3	84.490	82.110	85.260	83.270	85.740	84.220	84.460	87.150	86.090	86.380
BANK 4	87.080	86.100	86.260	85.860	85.530	84.470	85.360	31.450	33.790	30.540
BANK 5	38.470	29.510	38.310	26.980	35.090	29.110	32.640	27.630	26.700	26.040
BANK 6	26.120	26.730	258.620	258.610	258.620	258.620	258.620	258.610	258.610	258.610
BANK 7	29.295	29.272	29.280	-1.630	40.890	48.380	0.011	0.010	0.010	0.010

146 READING AT 82270:1530

BANK 1	76.500	82.670	82.730	82.690	82.510	84.230	85.530	81.830	85.340	93.650
BANK 2	23.640	22.030	22.070	84.390	83.410	83.820	82.980	95.450	84.800	86.010
BANK 3	84.490	82.100	85.260	83.280	85.700	84.200	84.590	87.120	86.130	86.310
BANK 4	87.160	86.030	86.260	85.790	85.490	84.570	85.340	31.060	32.220	30.260
BANK 5	36.520	29.190	32.750	27.290	28.740	28.110	32.580	27.650	26.690	26.110
BANK 6	26.200	26.680	144.030	156.860	161.530	167.170	173.460	176.740	181.410	186.520
BANK 7	29.285	29.266	29.272	-1.610	41.210	48.370	0.010	0.009	0.009	0.009

147 READING AT 82270:1545

BANK 1	76.450	82.700	82.750	82.700	82.530	84.200	85.460	81.820	85.340	93.620
BANK 2	23.640	22.020	22.060	84.320	83.390	83.790	83.060	85.480	84.780	86.070
BANK 3	84.420	82.110	85.120	83.220	85.760	84.190	84.450	87.130	86.060	86.320
BANK 4	87.030	86.030	86.200	85.830	85.490	84.590	85.330	30.870	31.900	30.260

BANK 5	34.990	28.470	30.300	26.810	27.630	27.470	32.620	27.680	26.690	26.120
BANK 6	26.210	26.660	204.720	214.320	219.590	221.760	225.610	227.770	229.770	232.780
BANK 7	29.287	29.262	29.272	-1.580	40.920	48.350	0.011	0.010	0.010	0.010

REPORT SELECTIONS:

- 1) MASS PLOT ANALYSIS
- 2) LEAK RATE ANALYSIS
- 3) NORMALIZED AIR WEIGHTS
- 4) TEMP-VAP-PRESS
- 5) INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST
- 6) INITIALIZATION DATA
- 7) READINGS: RAW AND CALIBRATED
- 8) DATA VERIFICATION: TREND TEST, COMPARE TEST
- 9) CALCULATED AIR WEIGHTS

(503)ENTER SELECTION OR ZERO

7

(504)ENTER SPAN OF READINGS - 1..J

1..147

(514)RAW(R) OR CALIBRATED(C) DATA?

C

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
1 READING AT 82269: 245										
BANK 1	76.750	84.202	84.190	84.293	84.082	85.497	85.937	82.831	86.455	95.538
BANK 2	25.378	93.136	93.717	85.823	84.821	85.482	84.642	86.358	85.830	87.527
BANK 3	85.363	83.392	86.975	84.979	86.796	85.740	85.970	88.188	87.411	87.784

2 READING AT 822691 300

BANK 1	76.740	84.192	84.150	84.303	84.072	83.487	85.857	82.821	86.465	95.518
BANK 2	25.388	23.136	23.717	85.813	84.821	85.499	84.522	86.348	85.830	87.537
BANK 3	85.333	83.402	86.835	84.959	86.836	85.730	86.000	88.177	87.331	87.744
BANK 4	88.322	87.257	87.548	87.017	86.890	86.448	86.570	30.087	31.572	29.833
BANK 5	34.375	28.103	35.217	25.404	36.943	27.712	31.671	26.954	25.937	25.147
BANK 6	24.994	28.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.376	29.348	29.363	-1.620	37.970	44.860	0.000	0.000	0.000	0.000

3 READING AT 822691 315

BANK 1	76.680	84.092	84.110	84.193	84.012	85.437	85.867	82.761	86.405	95.398
BANK 2	25.307	23.056	23.646	85.753	84.761	85.429	84.602	86.358	85.770	87.467
BANK 3	85.293	83.352	86.735	84.879	86.796	85.700	85.910	88.117	87.300	87.704
BANK 4	88.302	87.147	87.457	86.957	86.820	86.398	86.510	30.768	33.298	29.919
BANK 5	37.461	28.731	38.275	25.823	40.602	28.452	31.900	26.924	25.887	25.107
BANK 6	24.874	26.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.379	29.352	29.362	-1.680	37.820	44.860	0.000	0.000	0.000	0.000

4 READING AT 822691 330

BANK 1	76.700	84.072	84.110	84.213	84.002	85.427	85.727	82.771	86.405	95.368
BANK 2	25.307	23.086	23.636	85.753	84.771	85.392	84.582	86.298	85.760	87.537
BANK 3	85.313	83.352	86.765	84.912	86.776	85.650	86.080	88.127	87.321	87.724
BANK 4	88.122	87.097	87.457	86.937	86.830	86.503	86.500	30.167	31.712	29.624
BANK 5	34.426	27.284	32.206	26.053	30.665	27.472	31.741	26.924	25.857	25.117
BANK 6	24.874	25.925	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.370	29.346	29.356	-1.830	37.880	44.930	0.000	0.000	0.000	0.000

5 READING AT 822691 345

BANK 1	76.720	84.112	84.190	84.203	84.022	85.457	85.877	82.791	86.455	95.388
BANK 2	25.338	23.086	23.667	85.733	84.781	85.379	84.652	86.298	85.790	87.537
BANK 3	85.333	83.362	86.675	84.912	86.816	85.700	85.980	88.177	87.341	87.724
BANK 4	88.202	87.247	87.508	86.277	86.880	86.578	86.550	29.987	31.063	29.416
BANK 5	33.457	27.187	30.178	25.554	28.871	26.483	31.691	26.914	25.837	25.117
BANK 6	24.824	25.925	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.370	29.342	29.354	-1.860	37.910	45.120	0.000	0.000	0.000	0.000

6 READING AT 822691 400

BANK 1	76.720	84.122	84.140	84.203	84.012	85.427	85.797	82.811	86.475	95.348
BANK 2	25.328	23.096	23.677	85.773	84.801	85.439	84.622	86.328	85.810	87.507
BANK 3	85.333	83.352	86.775	84.889	86.776	85.700	85.880	88.218	87.381	87.644
BANK 4	88.322	87.297	87.578	86.937	86.870	86.608	86.540	30.027	32.061	29.605
BANK 5	34.625	26.688	35.257	25.504	33.325	27.012	31.102	26.855	25.788	25.087
BANK 6	24.784	25.886	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.345	29.355	-1.920	37.740	45.090	0.000	0.000	0.000	0.000

7 READING AT 822691 415

BANK 1	76.720	84.132	84.130	84.213	83.982	85.427	85.707	82.781	86.465	95.398
BANK 2	25.328	23.076	23.667	85.763	84.781	85.489	84.592	86.328	85.790	87.427
BANK 3	85.313	83.362	86.725	84.889	86.756	85.700	86.000	88.208	87.351	87.603
BANK 4	88.272	87.267	87.578	86.977	86.850	86.598	86.560	29.827	34.445	29.615
BANK 5	36.153	26.818	38.315	26.142	35.947	27.872	31.880	26.815	25.768	25.067
BANK 6	24.904	26.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.371	29.348	29.358	-1.970	37.990	44.910	0.000	0.000	0.000	0.000

8 READING AT 822691 430

BANK 1	76.690	84.062	84.060	84.163	83.972	85.387	85.617	82.731	86.435	95.598
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BANK 4	89.192	87.217	87.359	86.929	86.850	86.538	86.310	85.487	85.407	85.372	85.407
BANK 5	24.245	27.057	33.783	25.793	30.625	26.693	32.160	26.775	25.748	25.097	0.000
BANK 6	24.734	25.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.365	29.344	29.351	-1.810	37.730	45.190	0.000	0.000	0.000	0.000	0.000

9 READING AT 822691 445

BANK 1	76.680	84.022	84.050	84.143	83.912	85.357	86.217	82.731	86.435	95.758	0.000
BANK 2	95.277	93.026	93.646	85.693	84.681	85.320	84.532	86.228	85.730	87.437	0.000
BANK 3	85.263	83.332	86.865	84.839	86.766	85.650	85.749	88.117	87.331	87.664	0.000
BANK 4	88.122	87.267	87.508	86.937	86.790	86.458	86.500	30.227	30.624	29.302	0.000
BANK 5	33.597	26.918	30.556	25.444	28.742	26.293	31.501	26.775	25.807	25.077	0.000
BANK 6	24.934	25.886	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.340	29.348	-1.890	37.720	45.300	0.000	0.000	0.000	0.000	0.000

10 READING AT 822691 500

BANK 1	76.700	84.012	84.050	84.193	83.932	85.387	86.547	82.741	86.445	95.958	0.000
BANK 2	95.287	93.076	93.687	85.713	84.711	85.320	84.472	86.238	85.740	87.507	0.000
BANK 3	85.263	83.322	87.285	84.869	86.756	85.680	85.890	88.167	87.371	87.734	0.000
BANK 4	88.122	87.177	87.508	86.947	86.810	84.978	86.500	29.496	33.138	29.169	0.000
BANK 5	34.825	26.539	35.914	25.823	31.013	26.793	30.793	26.765	25.807	25.047	0.000
BANK 6	25.163	26.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.367	29.345	29.354	-1.890	37.830	45.080	0.000	0.000	0.000	0.000	0.000

11 READING AT 822691 515

BANK 1	76.720	83.972	84.050	84.143	83.922	85.377	86.467	82.731	86.445	96.149	0.000
BANK 2	95.267	93.066	93.707	85.703	84.751	85.330	84.442	86.208	85.750	87.407	0.000
BANK 3	85.293	83.322	87.195	84.869	86.746	85.670	85.850	88.147	87.270	87.694	0.000
BANK 4	88.122	87.207	87.538	86.947	86.780	86.498	86.540	28.965	35.823	28.904	0.000
BANK 5	35.783	26.908	38.614	26.132	34.800	27.432	31.621	26.745	25.788	24.997	0.000
BANK 6	25.073	25.945	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.369	29.343	29.355	-1.970	37.760	45.080	0.000	0.000	0.000	0.000	0.000

12 READING AT 822691 530

BANK 1	76.730	83.982	84.030	84.133	83.912	85.377	86.617	82.721	86.435	96.239	0.000
BANK 2	95.267	93.076	93.727	85.683	84.691	85.439	84.462	86.168	85.750	87.437	0.000
BANK 3	85.263	83.302	87.355	84.859	86.766	85.640	85.830	88.147	87.351	87.714	0.000
BANK 4	88.062	87.187	87.539	86.917	86.780	84.668	86.510	28.895	31.901	28.799	0.000
BANK 5	34.615	27.007	32.836	25.474	29.788	26.863	32.040	26.745	25.748	24.997	0.000
BANK 6	25.383	26.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.337	29.348	-2.010	37.750	45.270	0.000	0.000	0.000	0.000	0.000

13 READING AT 822691 545

BANK 1	76.730	83.952	84.060	84.092	83.882	85.367	86.447	82.711	86.435	96.299	0.000
BANK 2	95.257	93.076	93.727	85.683	84.711	85.310	84.422	86.198	85.730	87.397	0.000
BANK 3	85.273	83.292	87.195	84.779	86.716	85.610	85.830	88.137	87.331	87.654	0.000
BANK 4	88.092	87.247	87.538	86.947	86.830	85.878	86.510	29.326	30.933	29.255	0.000

BANK 5	33.278	27.147	30.198	25.225	28.672	26.283	31.731	26.715	25.718	24.967	0.000
BANK 6	25.253	26.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.360	29.339	29.346	-2.040	37.570	45.170	0.000	0.000	0.000	0.000	0.000

14 READING AT 822691 600

BANK 1	76.720	83.972	84.040	84.092	83.892	85.347	86.317	82.711	86.425	96.299	0.000
BANK 2	95.247	93.066	93.737	85.663	84.671	85.300	84.512	86.158	85.720	87.397	0.000
BANK 3	85.253	83.272	87.155	84.769	86.746	85.630	85.729	88.157	87.280	87.694	0.000
BANK 4	88.122	87.197	87.488	86.947	86.770	85.398	86.510	29.897	31.133	29.653	0.000
BANK 5	33.627	28.113	34.579	25.314	35.967	27.372	31.501	26.695	25.668	24.927	0.000
BANK 6	25.063	26.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.364	29.339	29.349	-2.040	37.960	45.470	0.000	0.000	0.000	0.000	0.000

15 READING AT 822691 615

BANK 1	76.730	83.942	84.040	84.072	83.872	85.327	86.247	82.701	86.415	96.279	0.000
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BANK 4	88.112	87.177	86.242	85.307	84.372	83.437	82.502	81.567	80.632	79.697
BANK 5	25.654	27.565	27.222	26.871	26.219	25.012	23.541	22.753	25.738	25.237
BANK 6	25.073	25.638	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.363	29.346	29.351	-4.440	37.440	45.780	0.000	0.000	0.000	0.000

23 READING AT 822691 830

BANK 1	76.740	83.792	83.950	83.902	83.742	85.237	86.057	82.601	86.345	95.958
BANK 2	95.137	92.996	93.636	85.532	84.551	85.130	84.422	86.078	85.700	87.257
BANK 3	85.153	83.181	86.895	84.579	86.666	85.450	85.709	88.057	87.220	87.583
BANK 4	89.212	87.227	87.468	86.877	86.790	85.658	86.470	29.877	32.630	29.653
BANK 5	35.354	28.093	33.095	26.731	30.376	28.012	33.177	26.745	25.817	25.306
BANK 6	25.273	25.826	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.359	29.337	29.344	-3.960	40.110	45.570	0.000	0.000	0.000	0.000

24 READING AT 822691 845

BANK 1	76.750	83.792	83.940	83.922	83.732	85.227	85.827	82.601	86.345	95.918
BANK 2	95.137	92.986	93.626	85.532	84.551	85.160	84.313	86.188	85.710	87.277
BANK 3	85.143	83.171	86.665	84.529	86.656	85.440	85.619	88.007	87.220	87.623
BANK 4	87.992	87.177	87.498	86.887	86.800	85.928	86.470	30.287	31.801	30.061
BANK 5	33.947	28.123	30.387	26.492	29.290	27.482	32.798	26.775	25.807	25.346
BANK 6	25.183	25.727	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.355	29.336	29.344	-3.590	39.870	45.770	0.000	0.000	0.000	0.000

25 READING AT 822691 900

BANK 1	76.770	83.802	83.960	83.872	83.722	85.217	85.877	82.581	86.324	95.858
BANK 2	95.127	92.915	93.606	85.502	84.551	85.100	84.273	86.017	85.700	87.257
BANK 3	85.133	83.171	86.695	84.539	86.596	85.440	85.639	88.037	87.230	87.563
BANK 4	88.022	87.157	87.468	86.857	86.730	85.878	86.470	30.728	32.031	30.479
BANK 5	34.555	29.100	35.107	26.542	35.448	28.571	32.499	26.775	25.817	25.356
BANK 6	25.373	25.836	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.361	29.342	29.349	-5.280	41.890	49.810	0.000	0.000	0.000	0.000

26 READING AT 822691 915

BANK 1	76.770	83.832	83.950	83.862	83.702	85.197	86.087	82.591	86.314	95.838
BANK 2	95.127	92.895	93.606	85.462	84.561	85.090	84.412	86.068	85.680	87.277
BANK 3	85.113	83.171	86.865	84.549	86.636	85.430	85.629	88.027	87.240	87.613
BANK 4	87.992	87.077	87.478	86.877	86.700	85.308	86.430	31.379	34.236	30.640
BANK 5	38.689	29.469	38.694	26.931	38.538	29.431	32.599	26.765	25.758	25.346
BANK 6	25.532	25.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.362	29.342	29.350	-5.390	40.910	48.700	0.000	0.000	0.000	0.000

27 READING AT 822691 930

BANK 1	76.740	83.812	83.870	83.822	83.692	85.197	85.797	82.581	86.304	95.788
BANK 2	95.096	92.925	93.576	85.482	84.521	85.060	84.233	85.957	85.660	87.277
BANK 3	85.093	83.121	86.555	84.519	86.596	85.410	85.589	88.007	87.170	87.573
BANK 4	88.082	87.187	87.498	86.867	86.710	85.908	86.430	31.019	32.430	30.270
BANK 5	35.654	29.110	33.026	27.350	30.515	28.412	32.659	26.765	25.788	25.326
BANK 6	25.413	25.767	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.356	29.338	29.343	-4.970	40.930	48.930	0.000	0.000	0.000	0.000

28 READING AT 822691 945

BANK 1	76.740	83.752	83.850	83.802	83.672	85.166	85.877	82.571	86.294	95.718
BANK 2	95.066	92.915	93.556	85.462	84.481	85.030	84.303	86.007	85.650	87.197
BANK 3	85.083	83.131	86.635	84.449	86.586	85.370	85.689	87.967	87.220	87.503
BANK 4	87.962	87.227	87.457	86.817	86.710	85.878	86.430	30.758	31.811	30.213
BANK 5	33.657	28.203	30.367	26.831	29.100	27.652	32.549	26.795	25.847	25.406
BANK 6	25.393	25.797	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.355	29.336	29.340	-4.640	41.010	49.060	0.000	0.000	0.000	0.000

29 READING AT 822691 1000

BANK 1	76.720	83.792	83.850	83.802	83.662	85.156	85.827	82.541	86.284	95.668
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BANK 4	25.022	27.147	27.488	28.897	28.880	28.978	28.450	28.908	28.839	28.431
BANK 5	35.244	27.804	35.745	26.951	33.594	28.072	32.150	26.795	25.897	25.416
BANK 6	25.423	25.807	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.358	29.341	29.345	-4.450	40.910	48.870	0.000	0.000	0.000	0.000

30 READING AT 82269:1015

BANK 1	76.730	83.732	83.820	83.812	83.642	85.146	85.817	82.571	86.274	95.628
BANK 2	95.056	92.905	93.536	85.442	84.461	85.030	84.253	86.078	85.640	87.187
BANK 3	85.083	83.111	86.545	84.429	86.606	85.370	85.699	87.977	87.150	87.563
BANK 4	88.062	87.147	87.457	86.937	86.690	85.898	86.430	30.648	34.865	30.469
BANK 5	36.922	27.924	38.863	27.370	36.076	28.991	32.828	26.795	25.897	25.426
BANK 6	25.453	25.856	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.359	29.341	29.347	-4.270	41.020	49.140	0.000	0.000	0.000	0.000

31 READING AT 82269:1030

BANK 1	76.740	83.782	83.820	83.822	83.642	85.136	85.837	82.541	86.264	95.558
BANK 2	95.046	92.885	93.516	85.412	84.461	84.990	84.203	86.037	85.650	87.207
BANK 3	85.073	83.071	86.595	84.449	86.556	85.356	85.599	87.927	87.140	87.533
BANK 4	88.002	87.177	87.437	86.820	86.730	85.888	86.430	31.242	32.141	30.175
BANK 5	35.674	28.203	34.692	27.140	30.784	28.202	33.227	26.805	25.967	25.466
BANK 6	25.443	25.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.356	29.332	29.341	-4.040	40.850	49.210	0.000	0.000	0.000	0.000

32 READING AT 82269:1045

BANK 1	76.710	83.772	83.840	83.822	83.622	85.126	85.807	82.511	86.264	95.528
BANK 2	95.046	92.875	93.506	85.422	84.451	85.000	84.133	85.967	85.660	87.197
BANK 3	85.063	83.071	86.635	84.432	86.606	85.340	85.562	88.017	87.190	87.563
BANK 4	87.992	87.187	87.407	86.837	86.670	85.838	86.410	31.202	31.482	30.272
BANK 5	34.346	27.814	31.950	26.801	29.419	27.582	32.509	26.825	25.987	25.466
BANK 6	25.433	25.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.353	29.335	29.338	-3.260	40.820	49.310	0.000	0.000	0.000	0.000

33 READING AT 82269:1100

BANK 1	76.730	83.722	83.850	83.782	83.612	85.116	85.757	82.521	86.264	95.508
BANK 2	95.036	92.905	93.486	85.402	84.421	84.980	84.243	85.967	85.650	87.097
BANK 3	85.063	83.051	86.625	84.449	86.596	85.370	85.539	88.027	87.190	87.493
BANK 4	88.032	87.287	87.478	86.857	86.670	85.898	86.420	30.528	33.937	30.108
BANK 5	35.444	27.784	35.107	27.170	31.312	28.042	31.880	26.845	25.977	25.476
BANK 6	25.413	25.955	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.356	29.339	29.344	-3.880	40.960	49.210	0.000	0.000	0.000	0.000

34 READING AT 82269:1115

BANK 1	76.750	83.672	83.810	83.702	83.612	85.106	85.787	82.511	86.244	95.448
BANK 2	95.026	92.865	93.466	85.432	84.451	85.010	84.203	85.977	85.630	87.127
BANK 3	85.013	83.041	86.615	84.409	86.566	85.360	85.539	87.947	87.200	87.583
BANK 4	88.022	87.037	87.437	86.867	86.710	85.918	86.430	30.057	36.481	29.881
BANK 5	36.502	27.904	38.355	27.120	33.983	28.881	32.798	26.845	25.947	25.466
BANK 6	25.403	25.975	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.358	29.340	29.346	-3.890	40.850	49.550	0.000	0.000	0.000	0.000

35 READING AT 82269:1130

BANK 1	76.750	83.682	83.840	83.722	83.592	85.086	85.887	82.521	86.234	95.398
BANK 2	95.016	92.855	93.446	85.402	84.411	85.040	84.143	85.987	85.630	87.087
BANK 3	85.013	83.021	86.575	84.347	86.566	85.310	85.549	87.997	87.190	87.473
BANK 4	87.942	87.247	87.488	86.848	86.640	85.808	86.400	29.937	32.699	22.767
BANK 5	35.624	27.214	34.858	27.120	30.555	28.342	33.058	26.865	25.977	25.476
BANK 6	25.413	26.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.357	29.336	29.340	-3.780	40.760	49.250	0.000	0.000	0.000	0.000

BANK 3	84.993	83.041	86.545	84.362	86.546	85.290	85.562	87.947	87.170	87.523
BANK 4	88.032	87.037	87.417	86.807	86.680	85.818	86.320	30.347	31.821	30.118
BANK 5	34.286	28.103	30.676	26.811	28.241	27.642	33.008	26.875	26.007	25.516
BANK 6	25.443	26.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.333	29.338	-3.740	40.570	49.590	0.000	0.000	0.000	0.000

37 READING AT 82269:1200

BANK 1	76.740	83.652	83.790	83.732	83.582	85.076	85.777	82.481	86.224	95.318
BANK 2	95.006	92.845	93.436	85.362	84.401	84.940	84.163	85.867	85.620	87.117
BANK 3	84.963	83.031	86.535	84.349	86.526	85.300	85.499	87.947	87.160	87.563
BANK 4	88.062	87.067	87.407	86.787	86.630	85.868	86.400	30.818	31.971	30.536
BANK 5	34.765	29.219	35.386	26.851	33.594	28.661	32.509	26.894	26.037	25.546
BANK 6	25.532	26.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.355	29.338	29.343	-3.660	40.590	49.680	0.000	0.000	0.000	0.000

38 READING AT 82269:1215

BANK 1	76.740	83.632	83.770	83.692	83.542	85.036	85.707	82.461	86.184	95.238
BANK 2	94.976	92.825	93.396	85.352	84.401	84.960	84.233	85.907	85.570	87.137
BANK 3	84.953	83.021	86.505	84.329	86.536	85.270	85.479	87.947	87.110	87.533
BANK 4	88.072	87.147	87.367	86.807	86.670	85.818	86.380	31.469	34.376	30.678
BANK 5	38.602	29.668	38.813	27.170	36.854	29.491	32.798	26.874	25.947	25.536
BANK 6	25.522	26.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.357	29.340	29.343	-3.830	40.660	49.560	0.000	0.000	0.000	0.000

39 READING AT 82269:1230

BANK 1	76.740	83.582	83.780	83.672	83.532	85.026	85.697	82.451	86.184	95.208
BANK 2	94.966	92.765	93.366	85.312	84.351	84.930	84.193	85.877	85.560	87.067
BANK 3	84.913	82.981	86.415	84.769	86.476	85.260	85.449	87.886	87.030	87.533
BANK 4	87.982	87.097	87.327	86.777	86.660	85.758	86.350	31.109	32.510	30.469
BANK 5	35.913	29.259	32.946	27.489	29.648	28.521	32.758	26.824	25.277	25.576
BANK 6	25.652	26.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.351	29.333	29.339	-3.680	40.650	49.580	0.000	0.000	0.000	0.000

40 READING AT 82269:1245

BANK 1	76.740	83.632	83.740	83.682	83.512	85.006	85.747	82.451	86.174	95.168
BANK 2	94.956	92.815	93.355	85.322	84.361	84.890	84.103	85.867	85.580	86.996
BANK 3	84.923	82.971	86.395	84.259	86.496	85.250	85.439	87.896	87.140	87.503
BANK 4	87.922	87.027	87.357	86.777	86.630	85.818	86.350	30.878	31.911	30.260
BANK 5	33.837	28.243	30.417	27.110	28.582	27.682	32.589	26.914	26.047	25.606
BANK 6	25.582	26.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.348	29.331	29.336	-3.610	40.660	49.940	0.000	0.000	0.000	0.000

41 READING AT 82269:1300

BANK 1	76.720	83.582	83.720	83.712	83.502	84.996	85.617	82.431	86.164	95.138
BANK 2	94.936	92.815	93.345	85.302	84.351	84.930	84.183	85.907	85.570	87.036
BANK 3	84.963	82.991	86.425	84.249	86.536	85.210	85.439	87.866	87.120	87.493
BANK 4	88.062	87.067	87.377	86.817	86.630	85.838	86.350	30.948	32.759	30.469
BANK 5	35.344	27.974	35.785	27.120	32.269	28.172	32.319	26.924	26.037	25.616
BANK 6	25.532	26.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.352	29.333	29.338	-3.660	40.630	49.880	0.000	0.000	0.000	0.000

42 READING AT 82269:1315

BANK 1	76.740	83.612	83.710	83.672	83.492	84.996	85.647	82.451	86.154	95.118
BANK 2	94.926	92.845	93.325	85.302	84.351	84.880	84.173	85.887	85.560	87.026
BANK 3	84.903	82.951	86.485	84.269	86.426	85.230	85.469	87.886	87.130	87.533
BANK 4	87.952	87.087	87.327	86.777	86.630	85.798	86.350	30.828	35.064	30.498
BANK 5	36.712	27.934	38.654	27.629	35.289	29.031	32.248	26.914	26.047	25.616
BANK 6	25.523	26.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.353	29.335	29.340	-3.670	40.630	49.950	0.000	0.000	0.000	0.000

BANK 3	84.913	82.741	86.455	84.269	86.456	85.220	85.342	87.927	87.120	87.463
BANK 4	87.902	87.147	86.417	86.797	86.620	85.688	86.360	81.279	82.230	80.260
BANK 5	85.534	88.173	84.552	87.210	82.867	88.122	83.317	86.934	86.107	85.645
BANK 6	85.622	86.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.348	29.330	29.336	-3.660	40.460	49.920	0.000	0.000	0.000	0.000

44 READING AT 82269:1345

BANK 1	76.740	83.432	83.730	83.632	83.472	84.986	85.717	82.441	86.164	95.178
BANK 2	84.936	82.815	83.325	85.272	84.331	84.900	84.083	85.827	85.570	87.097
BANK 3	84.913	82.961	86.405	84.229	86.456	85.220	85.369	87.927	87.150	87.453
BANK 4	87.912	87.107	87.397	86.807	86.590	85.768	86.340	81.299	81.622	80.384
BANK 5	84.096	87.974	81.353	86.831	88.951	27.642	32.509	26.954	26.147	25.655
BANK 6	25.532	26.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.347	29.328	29.336	-3.560	40.590	49.880	0.000	0.000	0.000	0.000

45 READING AT 82269:1400

BANK 1	76.700	83.602	83.730	83.632	83.482	84.976	85.697	82.421	86.164	95.328
BANK 2	84.926	82.825	83.335	85.302	84.301	84.900	84.093	85.767	85.570	87.107
BANK 3	84.913	82.911	86.425	84.289	86.486	85.220	85.349	87.846	87.170	87.513
BANK 4	88.002	87.117	87.427	86.777	86.500	85.828	86.360	30.608	34.256	30.082

BANK 5	35.704	27.814	36.771	27.210	31.771	28.062	31.290	26.284	26.027	25.665
BANK 6	25.582	26.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.351	29.332	29.337	-3.610	40.650	50.080	0.000	0.000	0.000	0.000

46 READING AT 82269:1415

BANK 1	76.700	83.612	83.710	83.622	83.482	84.976	85.597	82.431	86.144	95.518
BANK 2	84.926	82.825	83.366	85.312	84.331	84.930	84.273	85.817	85.550	87.026
BANK 3	84.903	82.931	86.445	84.249	86.486	85.220	85.382	87.876	87.160	87.453
BANK 4	88.022	87.097	87.407	86.767	86.630	85.888	86.360	30.157	36.591	29.938
BANK 5	36.662	28.973	32.122	27.522	35.122	28.641	32.218	26.284	26.067	25.655
BANK 6	25.622	26.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.334	29.340	-3.660	40.660	50.010	0.000	0.000	0.000	0.000

47 READING AT 82269:1430

BANK 1	76.710	83.572	83.700	83.572	83.472	84.956	85.587	82.431	86.134	95.638
BANK 2	84.915	82.815	83.376	85.262	84.291	84.920	84.093	85.817	85.530	87.026
BANK 3	84.893	82.921	86.385	84.219	86.466	85.240	85.459	87.856	87.060	87.463
BANK 4	87.842	87.097	87.407	86.837	86.540	85.658	86.340	30.097	32.712	30.014
BANK 5	36.023	28.572	33.434	26.821	29.277	28.402	33.217	26.284	26.077	25.655
BANK 6	25.732	26.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.349	29.332	29.334	-3.600	40.620	49.250	0.000	0.000	0.000	0.000

48 READING AT 82269:1445

BANK 1	76.720	83.492	83.690	83.572	83.452	84.946	85.607	82.401	86.134	95.808
BANK 2	84.905	82.815	83.386	85.282	84.261	84.820	84.093	85.757	85.540	87.036
BANK 3	84.883	82.921	86.575	84.232	86.476	85.120	85.372	87.866	87.150	87.473
BANK 4	87.992	87.157	87.357	86.777	86.530	85.848	86.330	30.548	32.021	30.251
BANK 5	34.715	28.611	31.054	26.621	28.632	27.722	32.928	27.024	26.107	25.695
BANK 6	25.682	26.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.345	29.332	29.334	-3.560	41.910	49.560	0.000	0.000	0.000	0.000

49 READING AT 82269:1500

BANK 1	76.730	83.552	83.660	83.592	83.462	84.946	85.687	82.401	86.124	95.888
BANK 2	84.895	82.795	83.396	85.262	84.331	84.870	84.083	85.747	85.540	87.067
BANK 3	84.893	82.921	86.405	84.209	86.466	85.170	85.372	87.886	87.120	87.503
BANK 4	87.982	87.077	87.367	86.797	86.620	85.858	86.350	30.998	32.200	30.602
BANK 5	35.025	29.282	35.277	26.721	33.265	28.641	32.768	27.034	26.087	25.695
BANK 6	25.722	26.163	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.333	29.339	-3.550	42.060	49.690	0.000	0.000	0.000	0.000

51 READING AT 8226911530

BANK 1	76.730	83.472	83.650	83.572	83.412	84.916	85.577	82.351	86.104	95.838
BANK 2	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006
BANK 3	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006
BANK 4	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006
BANK 5	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006
BANK 6	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006
BANK 7	94.865	92.771	93.405	85.272	84.241	84.850	84.113	83.747	85.520	87.006

52 READING AT 8226911545

BANK 1	76.710	83.512	83.620	83.612	83.422	84.906	85.507	82.361	86.094	95.828
BANK 2	94.865	92.755	93.386	85.272	84.241	84.821	84.053	85.777	85.510	87.006
BANK 3	94.823	92.891	86.305	84.189	86.456	85.160	85.309	87.806	87.100	87.433
BANK 4	87.932	87.067	87.347	86.777	86.600	85.868	86.310	31.019	32.071	30.517
BANK 5	35.624	28.751	30.586	27.030	28.723	27.712	32.698	27.064	26.147	25.765
BANK 6	25.782	26.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.342	29.330	29.331	-3.240	41.850	49.740	0.000	0.000	0.000	0.000

53 READING AT 8226911600

BANK 1	76.710	83.472	83.580	83.542	83.412	84.886	85.687	82.351	86.084	95.828
BANK 2	94.845	92.765	93.366	85.242	84.231	84.830	84.023	85.717	85.490	86.976
BANK 3	84.823	82.901	86.315	84.209	86.446	85.160	85.259	87.806	87.090	87.403
BANK 4	87.982	87.067	87.317	86.817	86.600	85.828	86.320	31.159	32.949	30.593
BANK 5	36.342	28.332	36.372	27.110	32.389	28.352	32.359	27.064	26.157	25.775
BANK 6	25.772	26.203	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.347	29.329	29.341	-3.230	41.730	49.750	0.000	0.000	0.000	0.000

54 READING AT 8226911615

BANK 1	76.730	83.442	83.640	83.552	83.422	84.886	85.477	82.361	86.084	95.818
BANK 2	94.855	92.765	93.366	85.232	84.231	84.850	84.003	85.797	85.470	87.016
BANK 3	84.843	82.861	86.365	84.179	86.406	85.140	85.269	87.836	87.090	87.473
BANK 4	87.942	87.007	87.277	86.777	86.570	85.868	86.330	31.099	35.513	30.574
BANK 5	37.920	27.874	39.271	27.562	35.628	28.921	33.058	27.054	26.187	25.775
BANK 6	25.622	26.213	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.350	29.336	29.337	-3.200	41.900	49.840	0.000	0.000	0.000	0.000

55 READING AT 8226911630

BANK 1	76.730	83.492	83.610	83.502	83.402	84.876	85.757	82.351	86.074	95.718
BANK 2	94.835	92.755	93.366	85.222	84.241	84.821	84.093	85.737	85.470	87.006
BANK 3	84.823	82.861	86.415	84.179	86.396	85.150	85.349	87.816	87.020	87.403
BANK 4	87.982	87.027	87.247	86.787	86.620	85.808	86.300	31.339	32.659	30.507
BANK 5	36.283	28.352	34.181	27.350	30.176	28.302	33.297	27.074	26.207	25.815
BANK 6	25.792	26.302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.344	29.326	29.334	-3.090	41.700	49.930	0.000	0.000	0.000	0.000

56 READING AT 8226911645

BANK 1	76.730	83.492	83.570	83.532	83.392	84.866	85.737	82.351	86.064	95.698
BANK 2	94.815	92.755	93.355	85.212	84.201	84.811	84.143	85.697	85.450	86.996
BANK 3	84.823	82.891	86.455	84.179	86.426	85.100	85.209	87.826	87.000	87.413
BANK 4	87.982	87.077	87.287	86.777	86.640	85.548	86.280	31.449	31.752	30.593
BANK 5	35.224	26.223	31.193	26.851	26.671	27.755	32.613	27.104	26.111	25.775

57 READING AT 82269:1700

BANK 1	76.730	83.502	83.560	83.502	83.382	84.856	85.707	82.311	86.054	95.668
BANK 2	94.825	92.785	93.335	85.202	84.231	84.821	84.113	85.627	85.470	87.026
BANK 3	84.793	82.901	86.445	84.202	86.406	85.110	85.242	87.866	87.020	87.442
BANK 4	87.932	86.977	87.327	86.757	86.590	85.548	86.300	30.738	34.545	30.365
BANK 5	25.953	28.073	36.821	27.280	31.870	28.172	32.090	27.114	26.287	25.805
BANK 6	25.842	26.401	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.347	29.330	29.335	-3.120	41.540	50.000	0.000	0.000	0.000	0.000

58 READING AT 82269:1715

BANK 1	76.730	83.442	83.550	83.492	83.372	84.846	85.727	82.311	86.044	95.628
BANK 2	94.805	92.765	93.325	85.192	84.181	84.791	84.083	85.677	85.430	86.916
BANK 3	84.783	82.871	86.425	84.129	86.396	85.100	85.239	87.856	87.040	87.403
BANK 4	87.892	86.977	87.347	86.747	86.550	85.438	86.280	30.337	37.260	30.099
BANK 5	38.509	28.572	39.929	27.469	35.498	28.681	33.008	27.134	26.347	25.795
BANK 6	25.982	26.421	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.349	29.333	29.336	-3.250	41.630	49.850	0.000	0.000	0.000	0.000

59 READING AT 82269:1730

BANK 1	76.710	83.362	83.540	83.522	83.362	84.836	85.577	82.321	86.034	95.598
BANK 2	94.805	92.745	93.305	85.162	84.231	84.811	83.283	85.667	85.430	86.296
BANK 3	84.783	82.861	86.335	84.149	86.356	85.052	85.122	87.816	87.060	87.373
BANK 4	87.762	87.007	87.267	86.727	86.550	85.598	86.270	30.227	32.929	30.092
BANK 5	36.273	28.721	34.121	27.040	22.947	28.442	33.297	27.134	26.437	25.825
BANK 6	25.962	26.381	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.344	29.325	29.330	-3.200	41.770	50.130	0.000	0.000	0.000	0.000

60 READING AT 82269:1745

BANK 1	76.720	83.382	83.530	83.492	83.352	84.826	85.547	82.301	86.024	95.578
BANK 2	94.785	92.715	93.295	85.152	84.171	84.850	83.273	85.597	85.420	86.206
BANK 3	84.773	82.831	86.235	84.149	86.366	85.062	85.239	87.816	87.040	87.453
BANK 4	87.952	86.887	87.287	86.717	86.560	85.738	86.260	30.628	32.061	30.374
BANK 5	34.265	28.671	31.074	26.651	28.532	27.752	33.038	27.154	26.457	25.855
BANK 6	25.842	26.302	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.342	29.325	29.329	-3.180	41.730	50.150	0.000	0.000	0.000	0.000

61 READING AT 82269:1800

BANK 1	76.740	83.412	83.560	83.512	83.342	84.826	85.657	82.281	86.024	95.528
BANK 2	94.775	92.735	93.285	85.132	84.181	84.821	83.233	85.617	85.400	86.206
BANK 3	84.773	82.861	86.285	84.159	86.406	85.079	85.219	87.786	87.030	87.413
BANK 4	87.852	86.947	87.267	86.697	86.530	85.618	86.270	31.039	32.260	30.726

BANK 5	35.174	22.558	35.287	26.891	33.246	28.751	32.639	27.174	26.397	25.855
BANK 6	25.912	26.381	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.346	29.327	29.334	-3.160	41.840	50.060	0.000	0.000	0.000	0.000

62 READING AT 82269:1815

BANK 1	76.730	83.412	83.520	83.502	83.332	84.806	85.597	82.291	86.014	95.478
BANK 2	94.775	92.705	93.265	85.152	84.171	84.811	83.223	85.637	85.410	86.876
BANK 3	84.783	82.841	86.445	84.092	86.356	85.082	85.282	87.726	87.050	87.403
BANK 4	87.812	86.937	87.267	86.707	86.570	85.338	86.260	31.770	34.615	30.460
BANK 5	38.150	30.017	38.474	27.120	35.787	22.501	32.838	27.184	26.277	25.835
BANK 6	25.992	26.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.346	29.326	29.335	-3.140	41.770	50.100	0.000	0.000	0.000	0.000

63 READING AT 82269:1830

BANK 1	76.740	83.382	83.530	83.452	83.322	84.736	85.297	82.291	86.004	95.458
BANK 2	94.745	92.685	93.245	85.132	84.121	84.751	84.023	85.587	85.390	86.276
BANK 3	84.773	82.811	86.045	84.082	86.366	85.058	85.169	87.746	87.020	87.363
BANK 4	87.792	87.017	87.277	86.737	86.560	86.269	86.250	31.369	32.679	30.669

BANK 1	76.720	83.392	83.490	83.432	83.332	84.776	85.217	82.261	85.294	95.399
BANK 2	94.735	92.675	93.235	85.112	84.171	84.701	83.913	85.607	85.400	86.884
BANK 3	84.763	82.811	86.025	84.099	86.376	85.029	85.232	87.786	87.030	87.423
BANK 4	87.922	87.007	87.267	86.707	86.480	86.268	86.240	31.149	32.220	30.783
BANK 5	36.293	28.930	31.990	27.110	28.303	27.832	32.708	27.204	26.277	25.895
BANK 6	25.732	26.222	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.339	29.324	29.329	-2.990	41.530	50.360	0.000	0.000	0.000	0.000

65 READING AT 82269:1900										
BANK 1	76.670	83.372	83.490	83.422	83.302	84.786	85.257	82.251	85.994	95.378
BANK 2	94.745	92.695	93.225	85.132	84.121	84.761	84.003	85.597	85.370	86.896
BANK 3	84.773	82.801	86.075	84.199	86.326	85.039	85.229	87.756	86.960	87.352
BANK 4	87.842	86.997	87.247	86.687	86.510	86.268	86.240	31.289	33.498	30.868
BANK 5	37.021	28.432	37.020	27.280	32.149	28.472	32.489	27.214	26.287	25.915
BANK 6	25.702	26.242	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.344	29.323	29.331	-2.940	41.810	50.580	0.000	0.000	0.000	0.000

66 READING AT 82269:1915										
BANK 1	76.700	83.352	83.480	83.432	83.292	84.766	85.197	82.261	85.974	95.288
BANK 2	94.725	92.655	93.215	85.102	84.121	84.821	84.043	85.537	85.350	86.876
BANK 3	84.753	82.781	85.975	84.102	86.316	85.009	85.179	87.756	86.990	87.302
BANK 4	87.962	87.007	87.237	86.667	86.520	86.258	86.240	31.379	36.202	30.811
BANK 5	38.419	28.083	39.451	27.639	35.658	29.141	33.247	27.214	26.337	25.935
BANK 6	25.632	26.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.345	29.325	29.332	-2.920	41.890	50.470	0.000	0.000	0.000	0.000

67 READING AT 82269:1930										
BANK 1	76.700	83.342	83.470	83.422	83.272	84.766	85.097	82.261	85.954	95.278
BANK 2	94.714	92.615	93.185	85.082	84.151	84.741	83.923	85.547	85.360	86.826
BANK 3	84.743	82.771	86.075	84.059	86.336	84.959	85.129	87.726	86.940	87.263
BANK 4	87.852	86.907	87.217	86.657	86.500	86.228	86.220	31.509	32.779	30.602
BANK 5	36.362	28.382	34.201	27.380	30.266	28.392	33.447	27.214	26.377	25.945
BANK 6	25.622	26.242	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.339	29.321	29.327	-3.060	41.880	50.390	0.000	0.000	0.000	0.000

68 READING AT 82269:1945										
BANK 1	76.720	83.332	83.460	83.372	83.262	84.746	85.197	82.231	85.954	95.188
BANK 2	94.694	92.635	93.175	85.072	84.051	84.721	83.853	85.467	85.350	86.866
BANK 3	84.763	82.791	86.015	84.062	86.316	84.979	85.099	87.786	86.930	87.342
BANK 4	87.862	86.857	87.227	86.717	86.450	86.228	86.200	31.559	31.861	30.526
BANK 5	35.234	27.934	31.203	26.941	28.762	27.732	32.559	27.233	26.447	25.945
BANK 6	25.602	26.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.336	29.322	29.325	-2.780	41.870	50.450	0.000	0.000	0.000	0.000

69 READING AT 82269:2000										
BANK 1	76.730	83.312	83.420	83.412	83.252	84.756	85.197	82.221	85.944	95.158
BANK 2	94.704	92.635	93.165	85.072	84.131	84.721	83.913	85.527	85.350	86.846
BANK 3	84.763	82.781	85.895	84.069	86.296	84.969	85.179	87.746	86.930	87.342
BANK 4	87.922	86.857	87.167	86.687	86.500	86.238	86.210	30.918	34.565	30.460
BANK 5	35.893	27.924	36.791	27.370	32.080	28.042	32.080	27.263	26.447	25.935
BANK 6	25.672	26.292	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.339	29.322	29.331	-2.750	42.010	50.780	0.000	0.000	0.000	0.000

70 READING AT 82269:2015										
BANK 1	76.750	83.322	83.430	83.382	83.252	84.756	85.247	82.221	85.944	95.138
BANK 2	94.684	92.645	93.135	85.072	84.111	84.671	84.003	85.497	85.340	86.796
BANK 3	84.773	82.761	85.905	84.049	86.276	84.939	85.139	87.756	86.920	87.363
BANK 4	87.882	86.887	87.147	86.687	86.520	86.218	86.200	30.297	37.110	30.175

BANK 5	36.113	28.492	36.093	27.120	31.103	28.352	32.359	27.333	26.417	25.985
BANK 6	25.742	26.361	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.335	29.318	29.322	-2.390	41.790	48.270	0.000	0.000	0.000	0.000

78 READING AT 8226912215

BANK 1	76.690	83.222	83.340	83.272	83.162	84.686	85.227	82.161	85.874	94.798
BANK 2	24.614	22.585	23.014	24.282	23.291	24.611	23.754	25.407	25.290	26.766
BANK 3	84.733	82.660	85.865	83.989	86.246	84.862	85.129	87.656	86.930	87.242
BANK 4	87.782	86.787	87.157	86.647	86.440	86.148	86.140	30.978	35.573	30.707
BANK 5	37.860	27.994	38.853	27.559	34.432	29.201	33.058	27.323	26.447	25.985
BANK 6	25.662	26.341	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.336	29.321	29.324	-2.410	42.130	48.270	0.000	0.000	0.000	0.000

79 READING AT 8226912230

BANK 1	76.710	83.252	83.310	83.272	83.172	84.706	85.287	82.161	85.874	94.748
BANK 2	24.584	22.585	22.984	24.262	23.291	24.611	23.774	25.397	25.260	26.796
BANK 3	84.753	82.660	85.885	83.979	86.266	84.859	85.109	87.666	86.870	87.222
BANK 4	87.852	86.847	87.106	86.627	86.400	86.118	86.110	31.559	32.470	30.488
BANK 5	36.263	28.422	34.211	27.250	29.877	28.182	33.417	27.333	26.467	26.024
BANK 6	25.702	26.381	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.330	29.317	29.320	-2.350	41.970	48.310	0.000	0.000	0.000	0.000

80 READING AT 8226912245

BANK 1	76.700	83.222	83.320	83.252	83.132	84.676	85.267	82.171	85.864	94.688
BANK 2	24.564	22.535	22.974	24.252	23.241	24.551	23.764	25.417	25.270	26.706
BANK 3	84.743	82.680	85.725	83.269	86.256	84.862	85.078	87.666	86.870	87.232
BANK 4	87.882	86.847	87.116	86.587	86.390	86.098	86.100	31.389	31.722	30.394
BANK 5	35.214	28.173	31.163	26.891	28.483	27.762	32.669	27.353	26.457	26.005
BANK 6	25.682	26.411	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.330	29.315	29.320	-2.500	42.020	48.370	0.000	0.000	0.000	0.000

81 READING AT 8226912300

BANK 1	76.700	83.212	83.310	83.292	83.132	84.676	85.207	82.161	85.854	94.668
BANK 2	24.564	22.545	22.964	24.222	23.261	24.581	23.833	25.397	25.260	26.636
BANK 3	84.733	82.690	85.945	84.029	86.226	84.829	85.078	87.666	86.900	87.152
BANK 4	87.892	86.867	87.116	86.577	86.400	86.118	86.110	30.738	34.567	30.355
BANK 5	35.943	28.093	36.502	27.220	31.990	28.082	31.960	27.373	26.467	25.995
BANK 6	25.732	26.411	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.335	29.317	29.321	-2.600	42.030	48.320	0.000	0.000	0.000	0.000

82 READING AT 8226912315

BANK 1	76.720	83.212	83.280	83.252	83.132	84.666	85.117	82.151	85.854	94.638
BANK 2	24.564	22.515	22.944	24.132	23.291	24.601	23.774	25.387	25.250	26.696
BANK 3	84.763	82.670	85.855	83.292	86.186	84.809	85.058	87.636	86.810	87.152
BANK 4	87.752	86.757	87.116	86.617	86.390	86.098	86.100	30.397	37.140	30.184
BANK 5	38.219	28.113	39.431	27.479	35.259	28.571	32.898	27.383	26.497	25.995
BANK 6	25.872	26.391	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.334	29.321	29.321	-2.660	42.040	48.430	0.000	0.000	0.000	0.000

83 READING AT 8226912330

BANK 1	76.730	83.202	83.270	83.252	83.132	84.646	85.197	82.151	85.834	94.588
BANK 2	24.544	22.525	22.924	24.242	23.241	24.551	23.793	25.397	25.240	26.736
BANK 3	84.733	82.660	85.865	83.989	86.206	84.849	85.068	87.605	86.820	87.172
BANK 4	87.621	86.757	87.116	86.597	86.400	86.078	86.070	30.297	33.049	30.061
BANK 5	35.983	28.323	33.812	26.891	29.957	28.462	33.297	27.373	26.626	26.005
BANK 6	25.932	26.381	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.315	29.317	-2.650	41.890	48.480	0.000	0.000	0.000	0.000

84 READING AT 8226912345

BANK 1	76.720	83.172	83.260	83.232	83.122	84.646	85.217	82.141	85.834	94.558
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BANK 4	37.872	66.747	67.872	26.631	28.463	27.842	2.103	27.393	26.605	26.014
BANK 5	34.545	28.482	30.274	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 6	25.912	26.421	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.326	29.313	29.312	-2.600	41.340	48.480	0.000	0.000	0.000	0.000

85. READING AT 822701 0										
BANK 1	76.720	83.172	83.270	83.212	83.102	84.656	85.317	82.131	85.834	94.528
BANK 2	24.524	22.204	22.204	84.212	83.251	84.521	82.774	85.347	85.250	86.656
BANK 3	84.743	82.660	85.825	83.949	86.236	84.802	85.149	87.626	86.830	87.242
BANK 4	87.651	86.767	87.056	86.547	86.320	86.078	86.070	31.159	32.240	30.678
BANK 5	35.025	22.419	35.137	26.761	32.277	23.701	32.629	27.413	26.497	25.995
BANK 6	25.862	26.430	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.333	29.314	29.319	-2.590	41.910	48.470	0.000	0.000	0.000	0.000

86. READING AT 822701 15										
BANK 1	76.720	83.122	83.260	83.222	83.112	84.646	85.257	82.121	85.814	94.478
BANK 2	24.513	22.425	22.874	84.912	83.891	84.561	83.803	85.347	85.250	86.656
BANK 3	84.723	82.620	85.785	83.265	86.246	84.792	85.129	87.656	86.870	87.182
BANK 4	87.722	86.747	87.066	86.547	86.330	86.068	86.060	31.810	34.475	30.244
BANK 5	38.878	22.767	39.803	27.170	36.206	22.501	32.903	27.373	26.477	25.975
BANK 6	25.772	26.430	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.333	29.314	29.321	-2.530	41.860	48.500	0.000	0.000	0.000	0.000

87. READING AT 822701 30										
BANK 1	76.710	83.132	83.220	83.202	83.082	84.636	85.267	82.111	85.804	94.438
BANK 2	24.503	22.425	22.864	84.922	83.991	84.551	83.704	85.417	85.220	86.636
BANK 3	84.713	82.610	85.755	83.242	86.226	84.732	84.268	87.525	86.800	87.212
BANK 4	87.702	86.667	87.026	86.567	86.330	86.038	86.030	31.282	32.672	30.678
BANK 5	36.702	29.478	33.165	27.542	22.638	28.551	32.878	27.403	26.517	26.014
BANK 6	25.812	26.791	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.328	29.314	29.315	-2.510	42.000	48.600	0.000	0.000	0.000	0.000

88. READING AT 822701 45										
BANK 1	76.710	83.112	83.260	83.152	83.072	84.626	85.157	82.111	85.804	94.448

BANK 2	24.493	22.495	22.834	84.872	83.911	84.511	83.624	85.347	85.230	86.616
BANK 3	84.683	82.600	85.815	83.229	86.126	84.712	85.078	87.605	86.760	87.142
BANK 4	87.661	86.657	87.026	86.477	86.300	86.028	86.020	31.119	32.131	30.536
BANK 5	35.374	28.781	30.805	27.000	28.204	27.822	32.788	27.423	26.427	26.044
BANK 6	25.802	26.411	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.324	29.311	29.314	-2.450	41.820	48.380	0.000	0.000	0.000	0.000

89. READING AT 822701 100										
BANK 1	76.710	83.132	83.220	83.162	83.072	84.616	85.107	82.101	85.724	94.508
BANK 2	24.503	22.425	22.834	84.882	83.821	84.511	83.674	85.347	85.210	86.616
BANK 3	84.703	82.590	85.875	83.219	86.126	84.742	84.268	87.585	86.850	87.212
BANK 4	87.641	86.737	87.016	86.497	86.220	86.008	86.010	31.269	32.742	30.678
BANK 5	36.183	28.323	36.073	27.040	20.834	28.182	32.312	27.423	26.517	26.054
BANK 6	25.792	26.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.309	29.316	-2.450	41.820	48.700	0.000	0.000	0.000	0.000

90. READING AT 822701 115										
BANK 1	76.730	83.092	83.230	83.172	83.042	84.526	85.267	82.091	85.784	94.548
BANK 2	24.463	22.485	22.834	84.852	83.871	84.521	83.714	85.327	85.210	86.646
BANK 3	84.713	82.590	85.725	83.892	86.186	84.749	84.228	87.555	86.780	87.172
BANK 4	87.772	86.687	87.056	86.497	86.230	86.008	86.020	31.292	34.416	30.583
BANK 5	37.860	28.004	38.253	27.532	34.242	22.081	33.048	27.403	26.527	26.034
BANK 6	25.722	26.421	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.331	29.312	29.317	-2.470	32.020	41.570	0.000	0.000	0.000	0.000

91. READING AT 822701 130										
BANK 1	76.710	83.092	83.220	83.142	83.062	84.606	85.167	82.091	85.764	94.528

BANK 4	87.682	86.827	87.936	86.487	86.220	85.778	86.000	87.327	86.527	86.074
BANK 5	36.452	28.362	34.012	27.220	27.808	28.322	33.357	27.423	0.000	0.000
BANK 6	25.822	26.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.323	29.306	29.313	-2.370	38.990	41.350	0.000	0.000	0.000	0.000

92 READING AT 822701 145										
BANK 1	76.710	83.102	83.170	83.162	83.052	84.586	85.187	82.081	85.764	94.608
BANK 2	94.423	92.465	92.825	84.832	83.871	84.511	83.754	85.227	85.200	86.576
BANK 3	84.703	82.530	85.745	83.849	86.206	84.679	84.988	87.555	86.730	87.092
BANK 4	87.531	86.687	87.006	86.497	86.280	85.968	85.980	31.299	31.861	30.488
BANK 5	35.045	28.063	31.243	26.831	28.682	27.752	32.609	27.433	26.507	26.044
BANK 6	25.752	26.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.323	29.304	29.311	-2.380	39.060	47.450	0.000	0.000	0.000	0.000

93 READING AT 822701 200										
BANK 1	76.700	83.042	83.190	83.112	83.032	84.586	85.237	82.071	85.754	94.578
BANK 2	94.433	92.495	92.804	84.842	83.881	84.451	83.734	85.307	85.200	86.576
BANK 3	84.683	82.540	85.745	83.879	86.126	84.689	85.018	87.555	86.760	87.162
BANK 4	87.621	86.707	87.016	86.517	86.250	85.958	85.970	30.768	34.406	30.346

BANK 5	35.813	27.924	36.522	27.240	31.811	28.122	32.030	27.453	26.477	26.024
BANK 6	25.812	26.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.327	29.312	29.313	-2.410	39.060	47.220	0.000	0.000	0.000	0.000

94 READING AT 822701 215										
BANK 1	76.680	83.092	83.160	83.142	83.012	84.586	85.147	82.061	85.734	94.528
BANK 2	94.423	92.415	92.784	84.832	83.851	84.481	83.664	85.327	85.190	86.566
BANK 3	84.663	82.540	85.775	83.839	86.176	84.679	84.269	87.585	86.710	87.082
BANK 4	87.541	86.767	86.956	86.467	86.240	85.818	85.960	30.307	36.930	30.146
BANK 5	38.259	28.103	32.142	27.449	35.109	28.542	32.918	27.463	26.527	26.014
BANK 6	25.952	26.440	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.329	29.310	29.318	-2.440	38.920	47.410	0.000	0.000	0.000	0.000

95 READING AT 822701 230										
BANK 1	76.680	83.032	83.160	83.142	83.012	84.566	85.217	82.061	85.724	94.498
BANK 2	94.403	92.445	92.774	84.802	83.831	84.391	83.724	85.297	85.160	86.556
BANK 3	84.663	82.540	85.665	83.839	86.156	84.669	84.958	87.555	86.710	87.102
BANK 4	87.782	86.647	86.966	86.487	86.200	85.918	85.930	30.217	33.118	29.995
BANK 5	36.153	28.691	33.862	26.891	29.788	28.392	33.317	27.453	26.646	26.024
BANK 6	25.992	26.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.320	29.303	29.310	-2.430	38.820	47.620	0.000	0.000	0.000	0.000

96 READING AT 822701 245										
BANK 1	76.700	83.012	83.160	83.112	82.992	84.566	86.087	82.061	85.724	94.468
BANK 2	94.403	92.405	92.764	84.802	83.811	84.451	83.694	85.277	85.170	86.536
BANK 3	84.663	82.530	86.335	83.799	86.156	84.659	84.958	87.505	86.750	87.041
BANK 4	87.641	86.657	86.966	86.467	86.200	85.908	85.930	30.628	32.131	30.422
BANK 5	34.925	28.422	31.233	26.631	28.293	27.812	33.008	27.473	26.626	26.044
BANK 6	26.580	26.807	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.322	29.302	29.309	-2.360	43.080	43.770	0.000	0.000	0.000	0.000

97 READING AT 822701 300										
BANK 1	76.630	83.002	83.180	83.082	82.992	84.556	86.067	82.051	85.714	94.438
BANK 2	94.383	92.395	92.753	84.772	83.811	84.401	83.604	85.267	85.150	86.526
BANK 3	84.653	82.520	86.345	83.799	86.116	84.649	84.968	87.525	86.730	87.082
BANK 4	87.461	86.597	86.926	86.447	86.250	84.348	85.920	31.149	32.210	30.764
BANK 5	34.925	29.359	35.137	26.791	32.727	28.801	32.649	27.503	26.566	26.034
BANK 6	26.500	26.817	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.325	29.306	29.312	-2.350	42.950	43.510	0.000	0.000	0.000	0.000

98 READING AT 822701 315										
BANK 1	76.600	83.002	83.150	83.082	82.982	84.546	85.977	82.031	85.704	94.408

BANK 5 38.299 22.688 33.534 27.220 35.747 29.641 33.048 27.453 26.527 26.014
 BANK 6 26.351 26.787 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.326 29.311 29.313 -2.360 32.370 47.710 0.000 0.000 0.000 0.000

29 READING AT 822701 330

BANK 1 76.690 83.012 83.120 83.112 82.962 84.536 85.937 82.031 85.694 94.368
 BANK 2 94.363 92.365 92.713 84.782 83.771 84.411 83.714 85.277 85.130 86.496
 BANK 3 84.643 82.490 86.355 83.779 86.156 84.599 84.858 87.435 86.730 87.092
 BANK 4 87.591 86.567 86.866 86.457 86.210 84.228 85.870 31.309 32.819 30.602
 BANK 5 36.752 29.498 33.205 27.459 29.250 28.701 32.918 27.473 26.576 26.074
 BANK 6 26.361 26.767 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.320 29.307 29.308 -2.330 39.480 47.810 0.000 0.000 0.000 0.000

100 READING AT 822701 345

BANK 1 76.700 83.012 83.120 83.072 82.952 84.536 85.907 82.021 85.694 94.368
 BANK 2 94.343 92.385 92.703 84.782 83.771 84.441 83.664 85.307 85.130 86.526
 BANK 3 84.623 82.490 86.305 83.719 86.106 84.592 84.868 87.515 86.760 87.072
 BANK 4 87.471 86.597 86.886 86.376 86.150 83.948 85.860 31.062 32.021 30.555
 BANK 5 35.334 28.751 30.725 27.010 28.104 27.902 32.798 27.503 26.556 26.094
 BANK 6 26.620 27.045 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.319 29.302 29.306 -2.270 42.320 50.020 0.000 0.000 0.000 0.000

101 READING AT 822701 400

BANK 1 76.710 83.022 83.100 83.062 82.942 84.516 85.717 82.021 85.674 94.338
 BANK 2 94.353 92.375 92.623 84.762 83.751 84.321 83.624 85.297 85.130 86.566
 BANK 3 84.623 82.480 86.155 83.739 86.136 84.579 84.838 87.545 86.620 87.051
 BANK 4 87.451 86.647 86.896 86.427 86.150 84.528 85.880 31.172 32.892 30.627
 BANK 5 35.083 28.313 36.083 27.050 30.844 28.402 32.462 27.503 26.576 26.024
 BANK 6 26.241 26.747 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.320 29.302 29.309 -2.280 42.130 50.130 0.000 0.000 0.000 0.000

102 READING AT 822701 415

BANK 1 76.710 82.982 83.100 83.062 82.942 84.526 85.247 82.041 85.674 94.288
 BANK 2 94.343 92.315 92.673 84.772 83.761 84.411 83.704 85.257 85.120 86.426
 BANK 3 84.613 82.480 86.245 83.759 86.116 84.599 84.823 87.435 86.600 87.011
 BANK 4 87.461 86.537 86.856 86.376 86.190 84.328 85.850 31.232 35.214 30.707
 BANK 5 37.720 27.964 38.564 27.552 34.103 29.121 33.078 27.483 26.586 26.084
 BANK 6 26.281 26.807 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.319 29.304 29.310 -2.280 41.210 46.850 0.000 0.000 0.000 0.000

103 READING AT 822701 430

BANK 1 76.700 82.972 83.130 83.032 82.922 84.506 85.867 82.011 85.654 94.238
 BANK 2 94.323 92.265 92.673 84.762 83.731 84.421 83.614 85.227 85.110 86.476
 BANK 3 84.623 82.450 86.235 83.702 86.106 84.562 84.878 87.435 86.610 87.011
 BANK 4 87.511 86.567 86.866 86.366 86.150 84.258 85.820 31.612 32.320 30.517
 BANK 5 36.053 28.163 33.534 27.130 29.678 28.282 33.227 27.423 26.566 26.114
 BANK 6 26.271 26.817 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.317 29.292 29.304 -2.170 41.330 46.930 0.000 0.000 0.000 0.000

104 READING AT 822701 445

BANK 1 76.730 82.922 83.060 83.052 82.922 84.496 85.757 82.001 85.644 94.198
 BANK 2 94.312 92.255 92.653 84.722 83.721 84.361 83.714 85.257 85.120 86.426
 BANK 3 84.603 82.410 86.245 83.699 86.116 84.579 84.928 87.465 86.569 86.981
 BANK 4 87.451 86.567 86.856 86.356 86.080 84.428 85.800 31.462 31.742 30.472
 BANK 5 34.225 27.944 30.556 26.771 28.422 27.622 32.678 27.513 26.556 26.024
 BANK 6 26.181 26.827 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
 BANK 7 29.314 29.297 29.302 -2.190 39.130 46.510 0.000 0.000 0.000 0.000

BANK 1	76.730	82.922	83.030	83.032	83.062	83.727	81.221	83.843	84.100
BANK 2	24.312	92.345	92.643	83.711	83.661	83.624	85.247	85.090	86.446
BANK 3	84.623	82.440	86.175	83.679	84.559	84.783	87.395	86.600	86.971
BANK 4	87.421	86.607	86.876	86.346	86.090	84.378	85.800	30.748	34.156
BANK 5	35.733	27.924	36.362	27.120	31.751	28.042	31.240	27.532	26.064
BANK 6	26.251	26.817	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.319	29.297	29.306	-2.220	32.310	44.620	0.000	0.000	0.000

106 READING AT 822701 315

BANK 1	76.740	82.922	83.090	83.032	82.912	84.476	85.597	81.981	85.644	94.148
BANK 2	24.222	92.345	92.633	84.742	83.721	84.361	83.534	85.197	85.060	86.506
BANK 3	84.523	82.430	86.105	83.659	86.116	84.539	84.793	87.365	86.539	86.991
BANK 4	87.421	86.547	86.806	86.296	86.010	84.428	85.790	30.418	36.681	30.165
BANK 5	38.040	27.914	39.092	27.430	35.000	28.542	32.928	27.513	26.556	26.044
BANK 6	26.361	26.767	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.319	29.302	29.308	-2.310	39.300	45.450	0.000	0.000	0.000	0.000

107 READING AT 822701 530

BANK 1	76.730	82.912	83.050	83.012	82.892	84.476	85.647	81.981	85.624	94.118
BANK 2	24.272	92.295	92.593	84.672	83.741	84.361	83.634	85.177	85.060	86.386
BANK 3	84.583	82.430	86.105	83.689	86.076	84.509	84.878	87.395	86.489	86.961
BANK 4	87.421	86.497	86.816	86.316	86.040	84.468	85.750	30.227	32.999	30.052
BANK 5	35.993	28.053	33.613	26.771	22.858	28.322	33.287	27.503	26.676	26.074
BANK 6	26.431	26.767	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.314	29.295	29.302	-2.250	39.080	45.530	0.000	0.000	0.000	0.000

108 READING AT 822701 600

BANK 1	76.700	82.852	83.030	83.002	82.872	84.456	84.977	81.971	85.604	94.048
BANK 2	24.252	92.285	92.573	84.672	83.661	84.341	83.754	85.217	85.070	86.366
BANK 3	84.573	82.410	85.515	83.619	86.116	84.542	84.808	87.385	86.519	86.891
BANK 4	87.361	86.467	86.755	86.336	86.010	85.798	85.760	31.069	32.121	30.716
BANK 5	35.005	29.379	35.107	26.681	32.678	28.741	32.788	27.533	26.566	26.044
BANK 6	25.992	26.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.316	29.299	29.303	-2.250	40.020	45.580	0.000	0.000	0.000	0.000

109 READING AT 822701 615

BANK 1	76.700	82.922	83.020	82.992	82.882	84.426	85.037	81.961	85.594	94.028
BANK 2	24.232	92.285	92.563	84.662	83.671	84.361	83.574	85.237	85.060	86.426
BANK 3	84.553	82.400	85.465	83.649	86.046	84.529	84.858	87.325	86.489	86.901
BANK 4	87.511	86.517	86.806	86.316	86.020	85.778	85.740	31.730	33.967	30.849

BANK 5	38.389	29.648	38.405	27.080	35.558	29.471	32.878	27.493	26.596	26.014
BANK 6	25.842	26.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.317	29.302	29.306	-2.310	39.650	45.280	0.000	0.000	0.000	0.000

110 READING AT 822701 630

BANK 1	76.720	82.862	83.020	82.952	82.862	84.426	84.987	81.951	85.584	94.018
BANK 2	24.222	92.245	92.543	84.632	83.691	84.291	83.584	85.157	85.060	86.416
BANK 3	84.553	82.390	85.545	83.599	86.076	84.499	84.718	87.264	86.419	86.911
BANK 4	87.391	86.367	86.745	86.286	86.030	85.758	85.710	31.209	32.630	30.593
BANK 5	36.542	29.449	32.966	27.449	29.359	28.621	32.878	27.523	26.626	26.074
BANK 6	25.852	26.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.311	29.297	29.299	-2.190	39.350	45.440	0.000	0.000	0.000	0.000

111 READING AT 822701 645

BANK 1	76.730	82.862	82.960	82.962	82.842	84.416	84.937	81.951	85.574	93.968
BANK 2	24.212	92.255	92.513	84.642	83.671	84.272	83.424	85.177	85.020	86.376
BANK 3	84.543	82.370	85.475	83.579	86.066	84.449	84.758	87.365	86.469	86.821
BANK 4	87.251	86.387	86.705	86.216	85.980	85.738	85.690	31.059	32.001	30.564
BANK 5	35.045	28.631	30.257	26.901	27.945	27.902	32.838	27.553	26.606	26.064
BANK 6	25.882	26.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.309	29.292	29.293	-2.180	39.380	45.530	0.000	0.000	0.000	0.000

BANK 2	24,202	22,275	22,523	24,592	23,661	24,291	23,594	25,217	25,040	26,336
BANK 3	24,553	22,380	25,515	23,569	26,046	24,492	24,683	27,114	26,452	26,881
BANK 4	27,401	26,517	26,705	26,236	26,019	25,736	25,700	21,562	22,789	30,612
BANK 5	35,223	28,223	36,083	28,241	30,306	28,532	31,581	27,553	26,616	26,074
BANK 6	25,812	26,470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,310	29,294	29,298	-2,000	38,900	48,410	0.000	0.000	0.000	0.000

113 READING AT 822701 715

BANK 1	76,700	82,882	82,950	82,942	82,822	84,396	84,997	81,941	85,554	93,908
BANK 2	24,192	22,235	22,423	83,602	83,611	84,242	83,634	85,157	85,030	86,326
BANK 3	24,543	82,320	85,475	83,519	86,046	84,452	84,728	87,264	86,429	86,851
BANK 4	27,331	86,437	86,705	86,216	86,010	85,718	85,690	31,299	34,944	30,640
BANK 5	37,501	27,864	38,684	27,270	34,521	29,181	32,010	27,503	26,626	26,064
BANK 6	25,812	26,470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,313	29,298	29,299	-1,980	38,810	47,960	0.000	0.000	0.000	0.000

114 READING AT 822701 730

BANK 1	76,690	82,852	82,970	82,962	82,802	84,396	84,987	81,921	85,544	93,858
BANK 2	24,162	22,225	22,483	84,602	83,641	84,301	83,454	85,127	85,020	86,246
BANK 3	24,523	82,320	85,475	83,482	86,036	84,479	84,718	87,264	86,439	86,851
BANK 4	27,311	86,427	86,725	86,266	85,950	85,698	85,650	31,432	32,230	30,441
BANK 5	35,963	28,183	34,719	27,140	29,270	28,272	32,938	27,523	26,616	26,094
BANK 6	25,802	26,470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,309	29,292	29,297	-1,860	38,870	48,200	0.000	0.000	0.000	0.000

115 READING AT 822701 745

BANK 1	76,700	82,842	82,920	82,902	82,912	84,376	85,047	81,921	85,544	93,838
BANK 2	24,162	22,195	22,452	84,612	83,641	84,192	83,344	85,117	85,020	86,316
BANK 3	24,543	82,320	85,405	83,509	86,016	84,442	84,718	87,314	86,362	86,770
BANK 4	27,381	86,307	86,655	86,126	85,910	85,678	85,640	31,319	31,622	30,469
BANK 5	34,845	27,834	32,767	26,721	28,184	27,612	32,070	27,543	26,626	26,074
BANK 6	25,742	26,500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,306	29,293	29,294	-1,270	38,100	46,860	0.000	0.000	0.000	0.000

116 READING AT 822701 800

BANK 1	76,700	82,842	82,920	82,912	82,782	84,366	84,967	81,911	85,524	93,868
BANK 2	24,152	22,175	22,442	84,582	83,601	84,291	83,474	85,117	85,000	86,286
BANK 3	24,533	82,320	85,445	83,519	85,986	84,442	84,658	87,274	86,409	86,730
BANK 4	27,421	86,307	86,685	86,246	85,950	85,678	85,630	30,778	34,256	30,403
BANK 5	35,634	28,014	36,591	27,080	31,280	28,122	31,880	27,533	26,526	26,064
BANK 6	25,782	26,530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,310	29,298	29,292	-2,020	38,000	46,680	0.000	0.000	0.000	0.000

117 READING AT 822701 815

BANK 1	76,710	82,812	82,950	82,902	82,802	84,376	85,007	81,921	85,514	93,848
BANK 2	24,142	22,185	22,432	84,592	83,581	84,182	83,464	85,147	85,000	86,316
BANK 3	24,543	82,310	85,415	83,509	85,976	84,422	84,708	87,264	86,352	86,791
BANK 4	27,401	86,337	86,645	86,216	85,940	85,648	85,620	30,307	34,820	30,033
BANK 5	38,070	28,053	32,152	27,432	35,162	28,521	32,768	27,533	26,566	26,054
BANK 6	25,912	26,532	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,310	29,296	29,292	-2,020	40,210	46,970	0.000	0.000	0.000	0.000

118 READING AT 822701 830

BANK 1	76,700	82,802	82,900	82,912	82,772	84,366	84,977	81,901	85,504	93,848
BANK 2	24,142	22,195	22,422	84,572	83,581	84,152	83,484	85,137	84,970	86,216
BANK 3	24,533	82,310	85,435	83,469	86,006	84,419	84,678	87,214	86,329	86,740
BANK 4	27,271	86,327	86,665	86,156	85,891	85,618	85,600	30,127	32,889	29,985
BANK 5	35,813	28,183	33,265	26,861	22,588	28,232	33,357	27,533	26,646	26,074
BANK 6	26,011	26,539	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29,305	29,289	29,293	-1,980	40,390	47,000	0.000	0.000	0.000	0.000

BANK 2	84.111	92.155	92.412	84.532	83.571	84.152	83.474	85.097	84.270	86.256
BANK 3	84.503	83.300	83.385	83.479	86.016	84.398	84.762	87.244	86.339	86.760
BANK 4	87.351	86.337	86.615	86.186	85.901	85.608	85.580	30.498	32.011	30.279
BANK 5	34.226	29.103	30.725	26.452	28.194	27.582	32.888	27.602	26.656	26.054
BANK 6	26.011	26.532	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.301	29.287	29.291	-1.980	38.380	46.750	0.000	0.000	0.000	0.000

120 READING AT 822701 900

BANK 1	76.690	82.782	82.920	82.862	82.762	84.336	84.927	81.871	85.484	93.817
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BANK 2	94.101	92.115	92.412	84.542	83.621	84.182	83.954	85.066	84.970	86.266
BANK 3	84.533	82.280	85.365	83.429	85.936	84.388	84.718	87.224	86.319	86.811
BANK 4	87.321	86.377	86.605	86.186	85.861	85.588	85.580	30.959	32.021	30.716
BANK 5	34.725	29.309	34.928	26.651	32.428	28.561	32.688	27.563	26.586	26.034
BANK 6	25.892	26.549	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.307	29.290	29.294	-1.930	38.120	46.750	0.000	0.000	0.000	0.000

121 READING AT 822701 915

BANK 1	76.720	82.742	82.920	82.872	82.742	84.376	84.917	81.871	85.484	93.797
BANK 2	84.521	82.135	92.382	84.542	83.521	84.212	83.414	85.076	84.930	86.216
BANK 3	84.493	82.270	85.285	83.459	85.266	84.409	84.708	87.234	86.349	86.730
BANK 4	87.251	86.267	86.595	86.166	85.821	85.598	85.580	31.579	33.917	30.773
BANK 5	38.379	29.648	38.375	27.050	35.573	22.311	32.693	27.543	26.636	26.014
BANK 6	25.772	26.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.307	29.295	29.296	-1.940	40.240	48.900	0.000	0.000	0.000	0.000

122 READING AT 822701 930

BANK 1	76.680	92.742	82.890	82.852	82.752	84.226	84.957	81.861	85.464	93.757
BANK 2	84.061	92.135	92.352	84.512	83.521	84.232	83.384	85.066	84.230	86.126
BANK 3	84.473	82.260	85.345	83.459	85.226	84.378	84.638	87.194	86.249	86.610
BANK 4	87.321	86.237	86.595	86.146	85.831	85.558	85.530	31.189	32.470	30.469
BANK 5	36.542	29.339	32.976	27.380	29.080	28.402	32.718	27.563	26.646	26.064
BANK 6	25.852	26.510	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.302	29.283	29.289	-1.900	40.080	48.880	0.000	0.000	0.000	0.000

123 READING AT 822701 945

BANK 1	76.690	82.742	82.840	82.792	82.742	84.226	84.987	81.851	85.454	93.717
BANK 2	84.051	92.115	92.342	84.502	83.541	84.182	83.284	85.097	84.930	86.186
BANK 3	84.463	82.239	85.235	83.439	85.266	84.358	84.638	87.164	86.239	86.620
BANK 4	87.261	86.107	86.545	86.086	85.841	85.528	85.520	30.918	31.891	30.441
BANK 5	35.164	28.592	30.337	26.751	27.964	27.712	32.609	27.582	26.636	26.074
BANK 6	25.982	26.539	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.299	29.283	29.287	-1.890	40.080	48.880	0.000	0.000	0.000	0.000

124 READING AT 822701 1000

BANK 1	76.740	92.712	82.840	82.832	82.712	84.226	86.527	81.851	85.444	93.687
BANK 2	84.051	92.125	92.332	84.472	83.491	84.142	83.284	85.076	84.920	86.126
BANK 3	84.463	82.239	86.395	83.379	85.276	84.368	84.608	87.134	86.259	86.720
BANK 4	87.301	86.127	86.475	86.076	85.821	85.403	85.460	31.129	32.610	30.517
BANK 5	36.023	28.193	35.874	26.971	30.455	28.232	32.269	27.582	26.636	26.064
BANK 6	26.740	27.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.302	29.287	29.289	-2.620	38.240	47.230	0.000	0.000	0.000	0.000

125 READING AT 822701 1015

BANK 1	76.740	82.671	82.810	82.792	82.702	84.266	84.907	81.821	85.424	93.637
BANK 2	84.021	92.075	92.302	84.472	83.521	84.092	83.344	84.996	84.910	86.176
BANK 3	84.433	82.219	85.235	83.369	85.906	84.378	84.608	87.134	86.279	86.690
BANK 4	87.281	86.207	86.505	86.096	85.791	85.538	85.500	30.968	34.984	30.583

126. READING AT 8227011030

BANK 1	76.720	82.701	82.720	82.802	82.692	84.276	85.277	81.811	85.394	93.607
BANK 2	24.001	22.054	22.272	84.462	83.491	84.112	83.344	84.976	84.210	86.176
BANK 3	84.443	82.172	85.245	83.339	85.926	84.308	84.668	87.094	86.249	86.680
BANK 4	87.231	86.177	86.495	86.066	85.751	85.428	85.460	31.376	22.091	30.385
BANK 5	35.903	28.102	34.480	27.110	22.021	28.162	33.028	27.523	26.616	26.034
BANK 6	25.942	26.592	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.298	29.284	29.286	-2.600	46.080	47.160	0.000	0.000	0.000	0.000

127. READING AT 8227011045

BANK 1	76.720	82.661	82.800	82.792	82.682	84.246	85.257	81.811	85.404	93.577
BANK 2	23.291	22.054	22.262	84.442	83.441	84.082	83.254	85.006	84.890	86.166
BANK 3	84.443	82.167	85.445	83.329	85.936	84.378	84.509	87.094	86.219	86.630
BANK 4	87.121	86.087	86.525	86.056	85.761	84.788	85.440	31.249	31.532	30.374
BANK 5	34.685	27.794	31.382	26.761	28.243	27.642	32.389	27.543	26.626	26.034
BANK 6	25.922	26.612	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.296	29.284	29.284	-2.290	45.930	47.130	0.000	0.000	0.000	0.000

128. READING AT 8227011100

BANK 1	76.710	82.732	82.820	82.792	82.692	84.256	85.127	81.821	85.414	93.577
BANK 2	24.001	22.025	22.272	84.472	83.461	84.182	83.514	84.986	84.820	86.136
BANK 3	84.443	82.159	85.475	83.339	85.926	84.298	84.528	87.104	86.199	86.600
BANK 4	87.161	86.257	86.525	86.046	85.721	84.958	85.460	30.889	33.827	30.260
BANK 5	35.464	27.814	35.057	26.901	30.824	27.922	31.820	27.553	26.636	26.044
BANK 6	25.982	26.592	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.300	29.286	29.290	-2.160	45.820	47.200	0.000	0.000	0.000	0.000

129. READING AT 8227011115

BANK 1	76.690	82.742	82.780	82.792	82.672	84.256	85.147	81.821	85.414	93.557
BANK 2	23.291	22.085	22.272	84.482	83.461	84.052	83.214	84.976	84.870	86.106
BANK 3	84.443	82.169	85.445	83.369	85.886	84.308	84.598	87.124	86.269	86.660
BANK 4	87.241	86.157	86.535	86.056	85.741	84.908	85.440	30.177	36.361	30.061
BANK 5	37.670	27.834	38.136	27.070	33.714	28.522	32.878	27.553	26.556	26.044
BANK 6	26.131	26.639	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.300	29.284	29.289	-1.550	46.740	47.920	0.000	0.000	0.000	0.000

130. READING AT 8227011130

BANK 1	76.660	82.681	82.810	82.772	82.682	84.246	85.187	81.811	85.394	93.537
BANK 2	23.291	22.014	22.252	84.442	83.461	84.092	83.284	84.986	84.820	86.126
BANK 3	84.443	82.142	85.425	83.359	85.916	84.298	84.538	87.054	86.229	86.640
BANK 4	87.241	86.107	86.485	86.076	85.721	84.983	85.420	30.147	32.719	29.805
BANK 5	35.883	27.974	34.589	27.150	30.057	28.222	33.237	27.563	26.636	26.044
BANK 6	26.231	26.668	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.295	29.284	29.281	-2.050	46.240	47.120	0.000	0.000	0.000	0.000

131. READING AT 8227011145

BANK 1	76.680	82.701	82.780	82.732	82.642	84.246	85.077	81.791	85.384	93.527
BANK 2	23.271	22.014	22.232	84.442	83.411	84.062	83.404	84.976	84.870	86.176
BANK 3	84.423	82.139	85.375	83.269	85.936	84.298	84.578	87.104	86.229	86.620
BANK 4	87.471	86.107	86.475	86.056	85.731	85.058	85.420	30.458	31.831	30.194
BANK 5	34.246	28.313	30.765	26.721	28.104	27.552	32.888	27.572	26.606	26.034
BANK 6	26.161	26.602	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.294	29.283	29.283	-1.850	41.070	42.630	0.000	0.000	0.000	0.000

132. READING AT 8227011200

BANK 1	76.720	82.621	82.820	82.772	82.662	84.246	85.877	81.801	85.384	93.517
BANK 2	23.271	22.054	22.232	84.452	83.461	84.012	83.224	84.996	84.850	86.106
BANK 3	84.433	82.132	85.903	83.299	85.826	84.298	84.558	87.064	86.249	86.580
BANK 4	87.161	86.147	86.444	85.996	85.731	83.888	85.400	30.078	31.931	30.659

BANK 7	29.298	29.285	29.287	-1.800	40.970	49.370	0.000	0.000	0.000	0.000
133 READING AT 82270:1215										
BANK 1	76.730	82.651	82.780	82.732	82.652	84.146	84.947	81.791	85.364	93.477
BANK 2	93.251	92.044	92.222	84.422	83.441	84.042	83.264	84.956	84.860	86.086
BANK 3	84.423	82.149	85.135	83.329	85.926	84.303	84.538	87.024	86.219	86.570
BANK 4	87.271	86.187	86.495	85.996	85.671	85.438	85.400	31.589	33.907	30.783
BANK 5	38.279	29.688	38.195	27.100	35.099	29.351	32.649	27.563	26.656	26.014
BANK 6	25.782	26.510	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.301	29.288	29.286	-1.840	41.100	49.410	0.000	0.000	0.000	0.000

134 READING AT 82270:1230										
BANK 1	76.710	82.621	82.800	82.752	82.632	84.216	85.007	81.791	85.364	93.457
BANK 2	93.931	92.034	92.202	84.402	83.421	84.112	83.344	84.956	84.850	86.126
BANK 3	84.403	82.139	85.255	83.319	85.916	84.268	84.528	87.104	86.199	86.570
BANK 4	87.061	86.127	86.475	85.966	85.681	85.338	85.380	31.159	32.310	30.460
BANK 5	36.273	29.189	32.866	27.430	29.070	28.462	32.748	27.582	26.656	26.074
BANK 6	25.932	26.510	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.294	29.283	29.281	-1.720	40.770	49.720	0.000	0.000	0.000	0.000

135 READING AT 82270:1245										
BANK 1	76.690	82.661	82.760	82.742	82.632	84.196	86.017	81.781	85.364	93.477
BANK 2	93.921	92.014	92.192	84.422	83.431	84.112	83.224	84.946	84.850	86.156
BANK 3	84.403	82.112	86.035	83.329	85.906	84.278	84.538	87.074	86.229	86.600
BANK 4	86.991	86.037	86.424	86.026	85.631	82.968	85.340	30.908	31.881	30.374
BANK 5	35.065	28.611	30.387	27.000	27.875	27.622	32.639	27.622	26.666	26.084
BANK 6	26.560	27.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.292	29.275	29.280	-1.700	41.320	48.370	0.000	0.000	0.000	0.000

136 READING AT 82270:1300										
BANK 1	76.680	82.651	82.780	82.742	82.622	84.196	84.807	81.781	85.354	93.527

BANK 2	93.931	92.024	92.182	84.392	83.371	84.052	83.274	84.956	84.840	86.096
BANK 3	84.413	82.109	85.165	83.309	85.857	84.328	84.558	87.084	86.209	86.610
BANK 4	87.141	86.087	86.374	86.006	85.661	85.418	85.380	31.039	32.370	30.536
BANK 5	35.753	28.163	35.665	26.961	30.356	28.252	32.190	27.622	26.666	26.064
BANK 6	25.922	26.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.295	29.278	29.283	-1.730	40.990	48.130	0.000	0.000	0.000	0.000

137 READING AT 82270:1315										
BANK 1	76.700	82.621	82.760	82.712	82.602	84.196	84.777	81.771	85.344	93.667
BANK 2	93.900	91.954	92.172	84.382	83.421	84.062	83.274	84.946	84.820	86.146
BANK 3	84.403	82.079	85.135	83.249	85.867	84.248	84.568	87.074	86.179	86.590
BANK 4	87.161	86.067	86.414	85.926	85.661	85.398	85.340	30.958	34.875	30.536
BANK 5	37.341	27.784	38.345	27.430	33.535	29.001	32.818	27.563	26.656	26.054
BANK 6	25.812	26.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.298	29.281	29.284	-1.670	41.170	48.200	0.000	0.000	0.000	0.000

138 READING AT 82270:1330										
BANK 1	76.590	82.631	82.700	82.662	82.612	84.186	84.867	81.761	85.324	93.757
BANK 2	93.890	91.944	92.182	84.372	83.381	84.092	83.184	85.177	84.810	86.136
BANK 3	84.433	82.109	85.125	83.089	85.867	84.158	84.608	87.023	86.129	86.540
BANK 4	87.171	85.997	86.354	85.966	85.671	85.368	85.340	31.289	32.081	30.336
BANK 5	35.704	28.083	34.300	27.140	29.031	28.022	32.998	27.563	26.656	26.104
BANK 6	25.822	26.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.292	29.275	29.278	-1.580	41.330	48.350	0.000	0.000	0.000	0.000

139 READING AT 82270:1345										
BANK 1	76.510	82.581	82.690	82.702	82.582	84.176	84.887	81.741	85.304	93.787
BANK 2	93.870	91.964	92.162	84.352	83.401	84.002	83.164	85.277	84.790	86.056
BANK 3	84.393	82.129	85.105	83.069	85.857	84.148	84.618	87.023	86.169	86.490
BANK 4	87.141	86.047	86.374	85.946	85.651	85.398	85.330	31.249	31.512	30.317

140 READING AT 82270:1400

BANK 1	76,480	82,571	82,710	82,672	82,592	84,166	85,047	81,741	85,294	93,757
BANK 2	23,370	21,954	22,172	84,362	83,371	84,082	83,374	85,247	84,750	86,066
BANK 3	84,413	82,132	85,155	83,119	85,876	84,158	84,508	87,003	86,159	86,520
BANK 4	87,071	86,027	86,294	85,946	85,651	85,320	84,658	30,658	34,166	30,213
BANK 5	35,444	28,014	36,283	27,150	31,571	27,892	31,760	27,602	26,654	26,074
BANK 6	25,912	26,648	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,226	29,278	29,282	-1,690	40,980	48,060	0,000	0,000	0,000	0,000

141 READING AT 82270:1415

BANK 1	76,420	82,581	82,680	82,652	82,572	84,156	84,817	81,751	85,294	93,757
BANK 2	23,360	21,934	22,162	84,332	83,411	84,002	83,174	85,287	84,760	86,096
BANK 3	84,423	82,149	85,075	83,099	85,847	84,158	84,538	87,023	86,119	86,500
BANK 4	87,171	86,137	86,384	85,906	85,631	85,348	85,310	30,217	36,621	29,947

BANK 5	38,030	27,984	38,853	27,120	34,591	28,372	32,698	27,592	26,576	25,054
BANK 6	25,932	26,549	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,297	29,275	29,282	-1,780	41,200	48,240	0,000	0,000	0,000	0,000

142 READING AT 82270:1430

BANK 1	76,400	82,571	82,670	82,642	82,572	84,156	84,827	81,731	85,284	23,717
BANK 2	23,350	21,924	22,141	84,302	83,421	84,002	83,184	85,297	84,750	86,026
BANK 3	84,433	82,112	85,025	83,119	85,847	84,128	84,538	87,013	86,082	86,472
BANK 4	87,021	86,077	86,374	85,946	85,581	85,288	85,290	30,017	32,682	30,004
BANK 5	35,903	27,214	33,946	26,701	22,240	28,072	33,038	27,582	26,666	26,044
BANK 6	26,091	26,582	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,292	29,272	29,278	-1,700	41,080	48,300	0,000	0,000	0,000	0,000

143 READING AT 82270:1445

BANK 1	76,380	82,551	82,650	82,632	82,542	84,166	84,887	81,731	85,274	23,717
BANK 2	23,330	21,934	22,141	84,332	83,431	83,272	83,115	85,337	84,740	86,026
BANK 3	84,443	82,109	85,275	83,122	85,817	84,148	84,668	86,273	86,082	86,462
BANK 4	87,081	86,007	86,304	85,866	85,641	85,218	85,27	30,508	31,901	30,317
BANK 5	34,446	28,273	30,426	26,452	27,964	27,432	32,711	27,642	26,656	26,044
BANK 6	26,241	26,698	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,288	29,268	29,275	-1,670	41,130	48,130	0,000	0,000	0,000	0,000

144 READING AT 82270:1500

BANK 1	76,360	82,551	82,640	82,662	82,552	84,146	85,407	81,731	85,274	23,677
BANK 2	23,320	21,934	22,121	84,302	83,331	84,032	83,214	85,337	84,730	86,046
BANK 3	84,403	82,102	85,465	83,132	85,827	84,148	84,518	86,293	86,062	86,402
BANK 4	87,021	85,287	86,284	85,826	85,611	84,308	85,270	30,238	31,911	30,631
BANK 5	34,855	29,252	35,049	26,541	32,090	28,422	32,472	27,612	26,636	26,034
BANK 6	26,231	26,797	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,293	29,262	29,272	-1,670	40,960	48,320	0,000	0,000	0,000	0,000

145 READING AT 82270:1515

BANK 1	76,380	82,561	82,660	82,642	82,542	84,136	85,317	81,721	85,254	23,657
BANK 2	23,300	21,914	22,101	84,262	83,361	83,982	83,204	85,377	84,710	86,086
BANK 3	84,403	82,089	85,375	83,172	85,807	84,158	84,548	86,273	86,042	86,472
BANK 4	86,971	85,987	86,324	85,876	85,601	84,378	85,240	31,562	33,837	30,726
BANK 5	38,432	22,528	38,265	27,000	35,082	29,261	32,632	27,612	26,676	26,005
BANK 6	26,051	26,747	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
BANK 7	29,295	29,272	29,280	-1,630	40,890	48,380	0,000	0,000	0,000	0,000

146 READING AT 82270:1530

BANK 1	76,360	82,531	82,600	82,612	82,512	84,146	85,347	81,711	85,244	23,607
BANK 2	23,280	21,894	22,081	84,262	83,341	83,922	83,095	85,327	84,700	86,076
BANK 3	84,413	82,079	85,375	83,189	85,767	84,138	84,678	86,243	86,089	86,402
BANK 4	87,051	85,917	86,324	85,806	85,541	84,428	85,220	31,172	32,270	30,460

147 READING AT 8227011545

BARF 1	76.310	82.561	82.620	82.622	82.532	84.116	85.277	81.701	85.244	93.577
BARF 2	93.780	91.884	92.071	84.262	83.321	83.892	83.174	85.357	84.480	86.036
BARF 3	84.413	82.089	85.305	83.199	85.827	84.128	84.538	86.953	86.019	86.419
BARF 4	86.921	85.917	86.264	85.846	85.551	84.438	85.210	30.988	31.851	30.460
BARF 5	35.015	28.562	30.267	26.831	27.656	27.622	32.619	27.662	26.666	26.084
BARF 6	26.141	26.678	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BARF 7	29.237	29.262	29.272	-1.590	40.990	49.350	0.000	0.000	0.000	0.000

REPORT SELECTIONS:

- 1) MASS FLOT ANALYSIS
- 2) LEAK RATE ANALYSIS
- 3) NORMALIZED AIR WEIGHTS
- 4) TEMP-VAP PRESS
- 5) INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST
- 6) INITIALIZATION DATA
- 7) READINGS: RAW AND CALIBRATED
- 8) DATA VERIFICATION: TREND TEST, COMPARE TEST
- 9) CALCULATED AIR WEIGHTS

(503)ENTER SELECTION OR ZERO

9

(504)ENTER SPAN OF READINGS - 1,J

1.147

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER CONTAINMENT 29.7% BLDG VOLUME	UPPER CONTAINMENT 54.1% BLDG VOLUME	ICE-CONDENSER 16.2% BLDG VOLUME
1	822691 245	0	0.0545673	0.0535111	0.0534599	0.0602020
2	822691 300	15	0.0545566	0.0535269	0.0534596	0.0601080
3	822691 315	30	0.0545516	0.0535311	0.0534740	0.0602029
4	822691 330	45	0.0545644	0.0535193	0.0534632	0.0601579
5	822691 345	60	0.0545649	0.0535121	0.0534498	0.0602190
6	822691 400	75	0.0545559	0.0535146	0.0534548	0.0601424
7	822691 415	90	0.0545478	0.0535222	0.0534595	0.0600626
8	822691 430	105	0.0545599	0.0535114	0.0534578	0.0601565
9	822691 445	120	0.0545624	0.0535030	0.0534529	0.0602097
10	822691 500	135	0.0545682	0.0535110	0.0534787	0.0601450
11	822691 515	150	0.0545459	0.0535135	0.0534573	0.0600738
12	822691 530	165	0.0545634	0.0534973	0.0534653	0.0601698
13	822691 545	180	0.0545641	0.0534975	0.0534588	0.0602109
14	822691 600	195	0.0545526	0.0535010	0.0534629	0.0601193
15	822691 615	210	0.0545380	0.0535071	0.0534678	0.0600020
16	822691 630	225	0.0545499	0.0535009	0.0534533	0.0601335
17	822691 645	240	0.0545587	0.0534993	0.0534548	0.0601875
18	822691 700	255	0.0545504	0.0535085	0.0534579	0.0601091
19	822691 715	270	0.0545536	0.0535123	0.0534567	0.0600217
20	822691 730	285	0.0545487	0.0535072	0.0534592	0.0600268
21	822691 745	300	0.0545500	0.0535040	0.0534503	0.0601400
22	822691 815	330	0.0545517	0.0535179	0.0534673	0.0600774
23	822691 830	345	0.0545393	0.0535040	0.0534405	0.0601069

26	82269: 919	245	0.0545225	0.0534727	0.0534355	0.0600771
27	82269: 930	405	0.0545225	0.0534727	0.0534355	0.0601371
28	82269: 945	420	0.0545223	0.0534666	0.0534335	0.0600555
29	82269: 1000	435	0.0545241	0.0534792	0.0534414	0.0599796
30	82269: 1015	450	0.0545112	0.0534804	0.0534409	0.0600635
31	82269: 1030	465	0.0545223	0.0534697	0.0534402	0.0601120
32	82269: 1045	480	0.0545249	0.0534638	0.0534343	0.0600635
33	82269: 1100	495	0.0545229	0.0534768	0.0534360	0.0599948
34	82269: 1115	510	0.0545143	0.0534779	0.0534421	0.0600637
35	82269: 1130	525	0.0545199	0.0534682	0.0534372	0.0601143
36	82269: 1145	540	0.0545263	0.0534653	0.0534355	0.0600365
37	82269: 1200	555	0.0545207	0.0534745	0.0534434	0.0599350
38	82269: 1215	570	0.0545074	0.0534778	0.0534473	0.0600523
39	82269: 1230	585	0.0545204	0.0534732	0.0534387	0.0601083
40	82269: 1245	600	0.0545246	0.0534640	0.0534347	0.0600370
41	82269: 1300	615	0.0545156	0.0534690	0.0534368	0.0599607
42	82269: 1315	630	0.0545070	0.0534721	0.0534420	0.0600434
43	82269: 1330	645	0.0545144	0.0534651	0.0534349	0.0600948
44	82269: 1345	660	0.0545205	0.0534666	0.0534299	0.0600237
45	82269: 1400	675	0.0545115	0.0534658	0.0534350	0.0599498
46	82269: 1415	690	0.0545026	0.0534706	0.0534380	0.0600518
47	82269: 1430	705	0.0545188	0.0534703	0.0534376	0.0600956
48	82269: 1445	720	0.0545165	0.0534668	0.0534252	0.0600142
49	82269: 1500	735	0.0545068	0.0534741	0.0534244	0.0599100
50	82269: 1515	750	0.0544942	0.0534754	0.0534318	0.0600170
51	82269: 1530	765	0.0545048	0.0534688	0.0534230	0.0600681
52	82269: 1545	780	0.0545116	0.0534627	0.0534236	0.0599980
53	82269: 1600	795	0.0545060	0.0534820	0.0534236	0.0599258
54	82269: 1615	810	0.0544979	0.0534738	0.0534343	0.0600132
55	82269: 1630	825	0.0545031	0.0534666	0.0534222	0.0600635
56	82269: 1645	840	0.0545126	0.0534604	0.0534280	0.0599222
57	82269: 1700	855	0.0545056	0.0534688	0.0534317	0.0599202
58	82269: 1715	870	0.0544969	0.0534747	0.0534392	0.0600167
59	82269: 1730	885	0.0545031	0.0534623	0.0534235	0.0600643
60	82269: 1745	900	0.0545094	0.0534615	0.0534212	0.0599203
61	82269: 1800	915	0.0545033	0.0534711	0.0534262	0.0598926
62	82269: 1815	930	0.0544902	0.0534730	0.0534289	

63	82269: 1830	945	0.0544932	0.0534638	0.0534118	0.0599962
64	82269: 1845	960	0.0545022	0.0534644	0.0534160	0.0600364
65	82269: 1900	975	0.0544910	0.0534652	0.0534136	0.0599626
66	82269: 1915	990	0.0544814	0.0534702	0.0534160	0.0598332
67	82269: 1930	1005	0.0544937	0.0534639	0.0534117	0.0599248
68	82269: 1945	1020	0.0545028	0.0534614	0.0534138	0.0600485
69	82269: 2000	1035	0.0544917	0.0534682	0.0534123	0.0599272
70	82269: 2015	1050	0.0544884	0.0534689	0.0534280	0.0598985
71	82269: 2030	1065	0.0544893	0.0534558	0.0534067	0.0599991
72	82269: 2045	1080	0.0544977	0.0534552	0.0534112	0.0600363
73	82269: 2100	1095	0.0544952	0.0534877	0.0534083	0.0599720
74	82269: 2115	1110	0.0544962	0.0534872	0.0534228	0.0598747
75	82269: 2145	1125	0.0544999	0.0534843	0.0534075	0.0599819
76	82269: 2160	1140	0.0544988	0.0534892	0.0533997	0.0600358
77	82269: 2200	1155	0.0544988	0.0534949	0.0534130	0.0599749
78	82269: 2215	1170	0.0544990	0.0534929	0.0534158	0.0598955
79	82269: 2230	1185	0.0544976	0.0534871	0.0534115	0.0599776
80	82269: 2245	1200	0.0545055	0.0534888	0.0534080	0.0600346
81	82269: 2300	1215	0.0544966	0.0534909	0.0534113	0.0599649
82	82269: 2315	1230	0.0544880	0.0534902	0.0534214	0.0598778
83	82269: 2330	1245	0.0544990	0.0534836	0.0534135	0.0599853
84	82269: 2345	1260	0.0545055	0.0534886	0.0534106	0.0600265
85	82270: 0	1275	0.0544963	0.0534882	0.0534127	0.0599631
86	82270: 15	1290	0.0544802	0.0534922	0.0534131	0.0598579

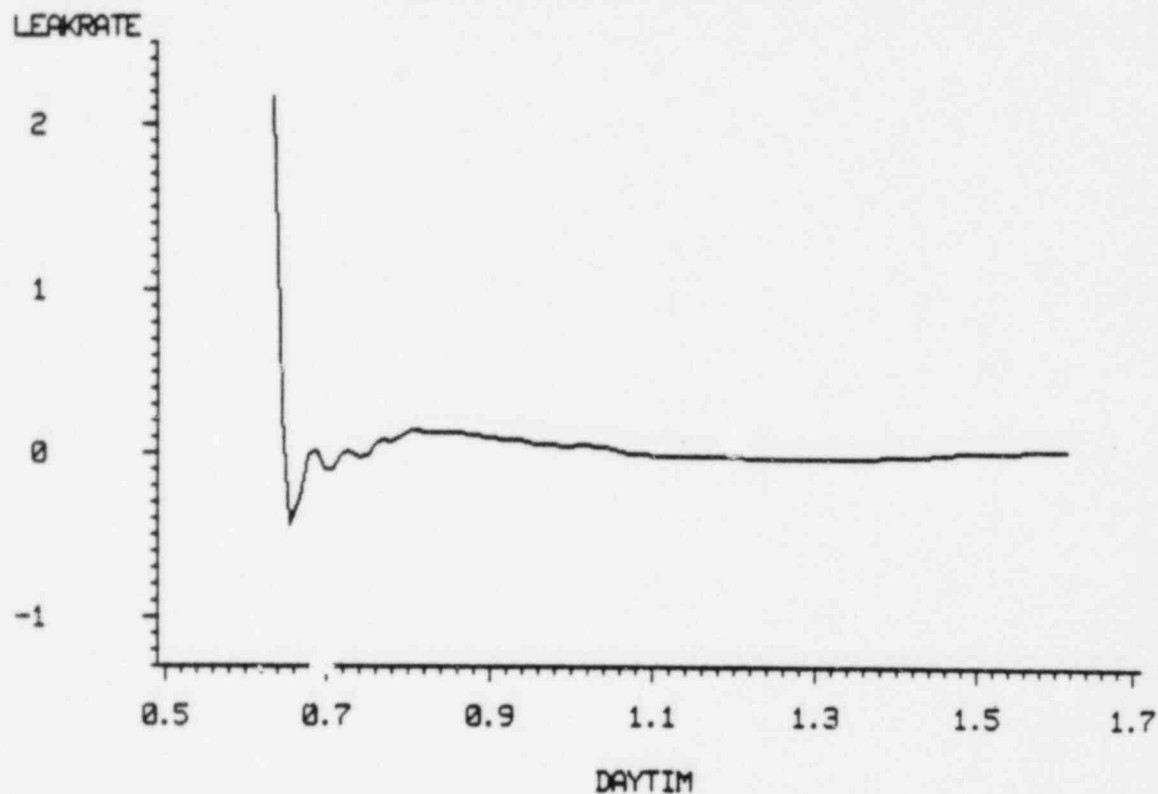
90	822701	115	1350	0.0545202	0.0535542	0.0534278	0.0599411
91	822701	130	1365	0.0545245	0.0534917	0.0534275	0.0600167
92	822701	145	1380	0.0545140	0.0534221	0.0534402	0.0592480
93	822701	200	1395	0.0545123	0.0535072	0.0534424	0.0598696
94	822701	215	1410	0.0545029	0.0534917	0.0534290	0.0599616
95	822701	230	1425	0.0545059	0.0535258	0.0533902	0.0600019
96	822701	245	1440	0.0545012	0.0535353	0.0534205	0.0599348
97	822701	300	1455	0.0545099	0.0534932	0.0534633	0.0598393
98	822701	315	1470	0.0545051	0.0534845	0.0534566	0.0599399
99	822701	330	1485	0.0545152	0.0534551	0.0534273	0.0599871
100	822701	345	1500	0.0544982	0.0534622	0.0534215	0.0599305
101	822701	400	1515	0.0544881	0.0535009	0.0534391	0.0598500
102	822701	415	1530	0.0544960	0.0534908	0.0534300	0.0599460
103	822701	430	1545	0.0545036	0.0534929	0.0534456	0.0599945
104	822701	445	1560	0.0545208	0.0535004	0.0534491	0.0599259
105	822701	500	1575	0.0545136	0.0535182	0.0534560	0.0598446
106	822701	515	1590	0.0545094	0.0535070	0.0534459	0.0599481
107	822701	530	1605	0.0545174	0.0535146	0.0534302	0.0599267
108	822701	600	1635	0.0545077	0.0535238	0.0534365	0.0598373
109	822701	615	1650	0.0544993	0.0535112	0.0534360	0.0599347
110	822701	630	1665	0.0545112			

111	822701	645	1680	0.0545132	0.0535010	0.0534294	0.0599882
112	822701	700	1695	0.0544995	0.0534784	0.0534342	0.0599292
113	822701	715	1710	0.0544960	0.0534872	0.0534449	0.0598556
114	822701	730	1725	0.0545019	0.0534814	0.0534343	0.0599378
115	822701	745	1740	0.0545185	0.0534923	0.0534461	0.0599791
116	822701	800	1755	0.0545156	0.0535045	0.0534548	0.0599118
117	822701	815	1770	0.0544899	0.0535019	0.0534329	0.0598312
118	822701	830	1785	0.0544997	0.0534917	0.0534233	0.0599421
119	822701	845	1800	0.0545131	0.0534919	0.0534358	0.0599829
120	822701	900	1815	0.0545086	0.0534982	0.0534440	0.0599162
121	822701	915	1830	0.0544838	0.0534783	0.0534379	0.0598200
122	822701	930	1845	0.0544876	0.0534674	0.0534203	0.0599223
123	822701	945	1860	0.0544966	0.0534655	0.0534236	0.0599702
124	822701	1000	1875	0.0545224	0.0534797	0.0534859	0.0598957
125	822701	1015	1890	0.0544959	0.0534955	0.0534445	0.0598414
126	822701	1030	1905	0.0544661	0.0534862	0.0533710	0.0599198
127	822701	1045	1920	0.0544795	0.0534840	0.0533828	0.0599671
128	822701	1100	1935	0.0544747	0.0534921	0.0533845	0.0599167
129	822701	1115	1950	0.0544513	0.0534843	0.0533704	0.0598336
130	822701	1130	1965	0.0544653	0.0534791	0.0533769	0.0599081
131	822701	1145	1980	0.0544927	0.0534554	0.0534228	0.0599670
132	822701	1200	1995	0.0544946	0.0534609	0.0534460	0.0598912
133	822701	1215	2010	0.0544748	0.0534660	0.0534305	0.0598118
134	822701	1230	2025	0.0544853	0.0534524	0.0534284	0.0599084
135	822701	1245	2040	0.0544996	0.0534608	0.0534401	0.0599425
136	822701	1300	2055	0.0544849	0.0534768	0.0534163	0.0599015
137	822701	1315	2070	0.0544773	0.0534787	0.0534219	0.0598326
138	822701	1330	2085	0.0544812	0.0534674	0.0534115	0.0599121
139	822701	1345	2100	0.0544902	0.0534710	0.0534114	0.0599613
140	822701	1400	2115	0.0544865	0.0534781	0.0534223	0.0598892
141	822701	1415	2130	0.0544703	0.0534788	0.0534136	0.0598166
142	822701	1430	2145	0.0544850	0.0534715	0.0534125	0.0599247
143	822701	1445	2160	0.0544858	0.0534673	0.0534072	0.0599550
144	822701	1500	2175	0.0544840	0.0534708	0.0534231	0.0598846
145	822701	1515	2190	0.0544735	0.0534731	0.0534296	0.0597941
146	822701	1530	2205	0.0544781	0.0534605	0.0534166	0.0598890
147	822701	1545	2220	0.0544852	0.0534615	0.0534127	0.0599438

REPORT SELECTIONS:

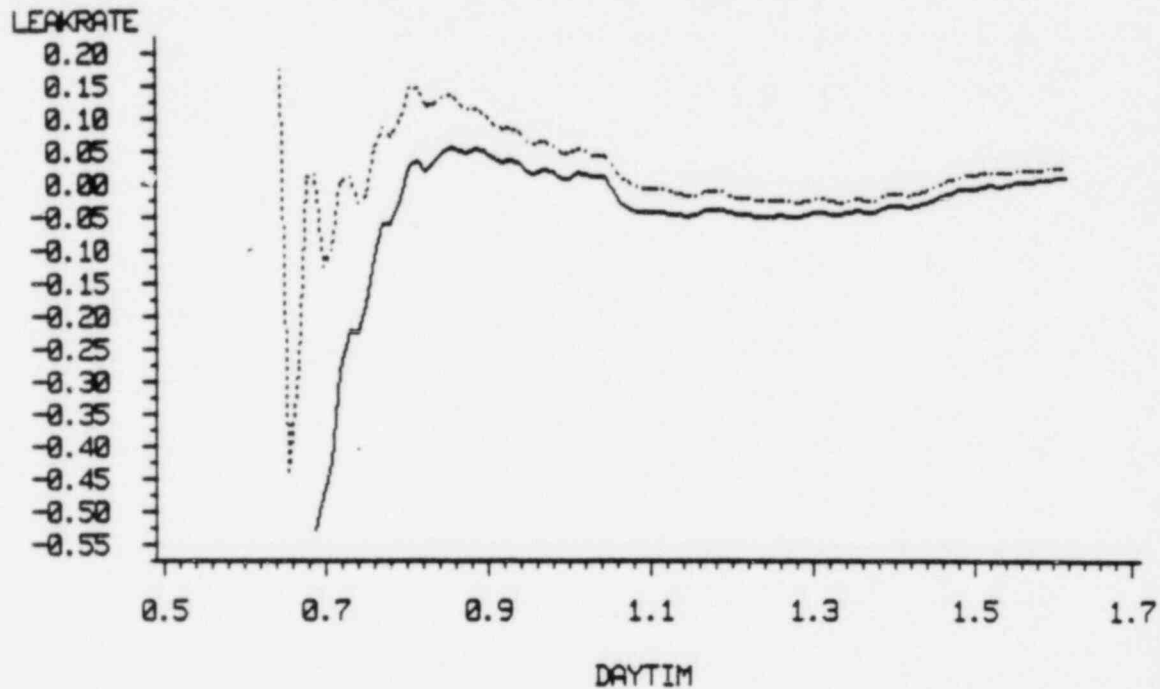
DUKE POWER COMPANY, MCGUIRE 2
MASS PLOT ANALYSIS (OBS)

82269:1445 THRU 82270:1445



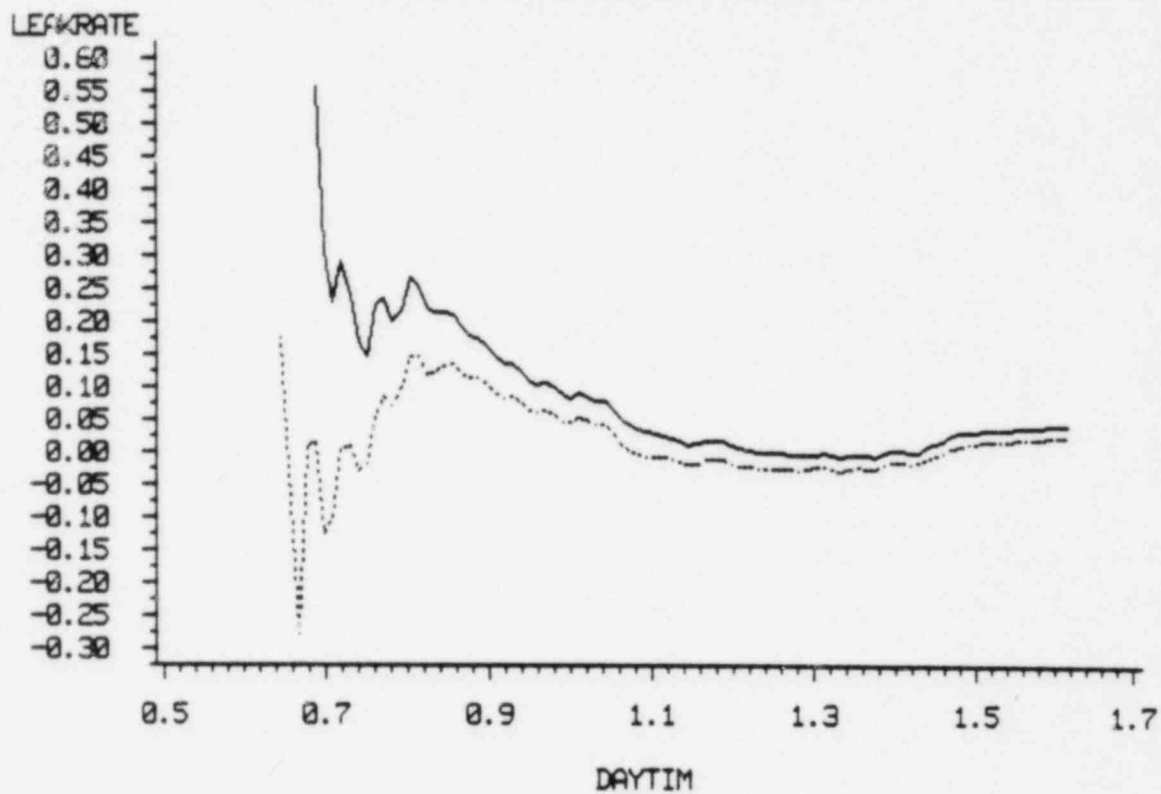
DUKE POWER COMPANY, MCGUIRE 2 MASS PLOT ANALYSIS (MIN, OBS)

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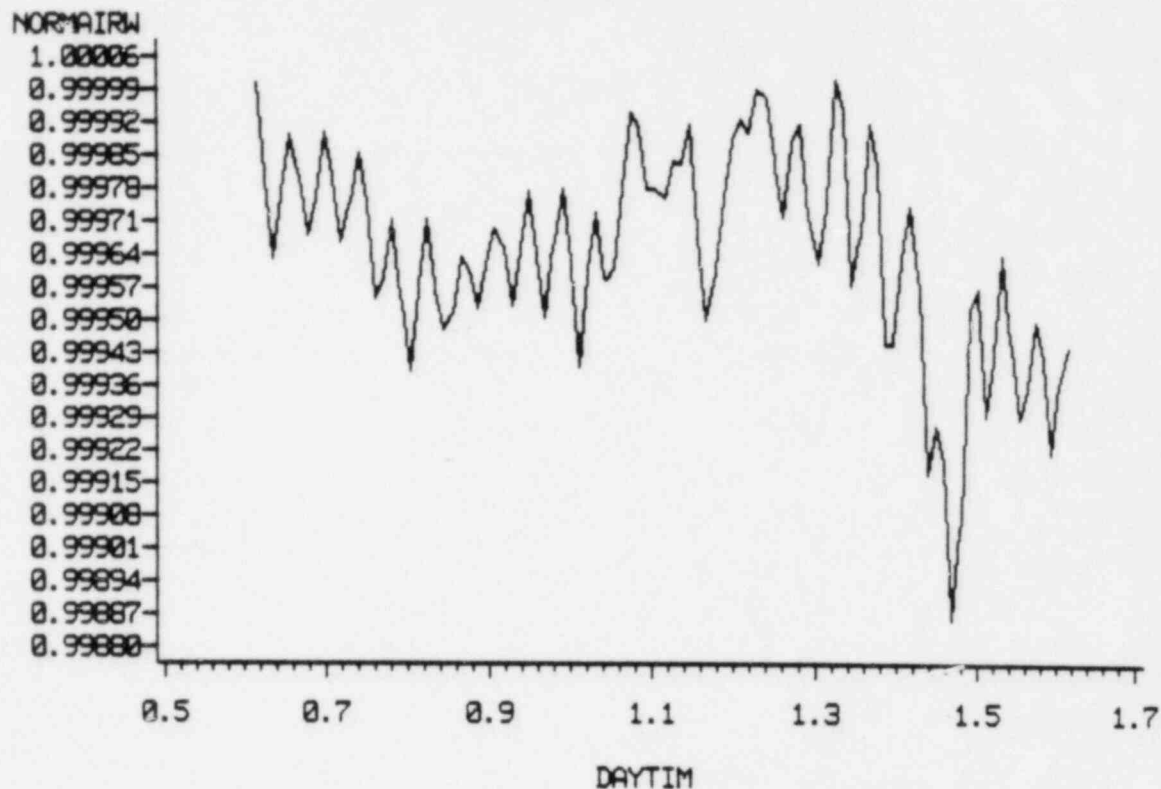
DUKE POWER COMPANY, MCGUIRE 2 MASS PLOT ANALYSIS (MAX, OBS)

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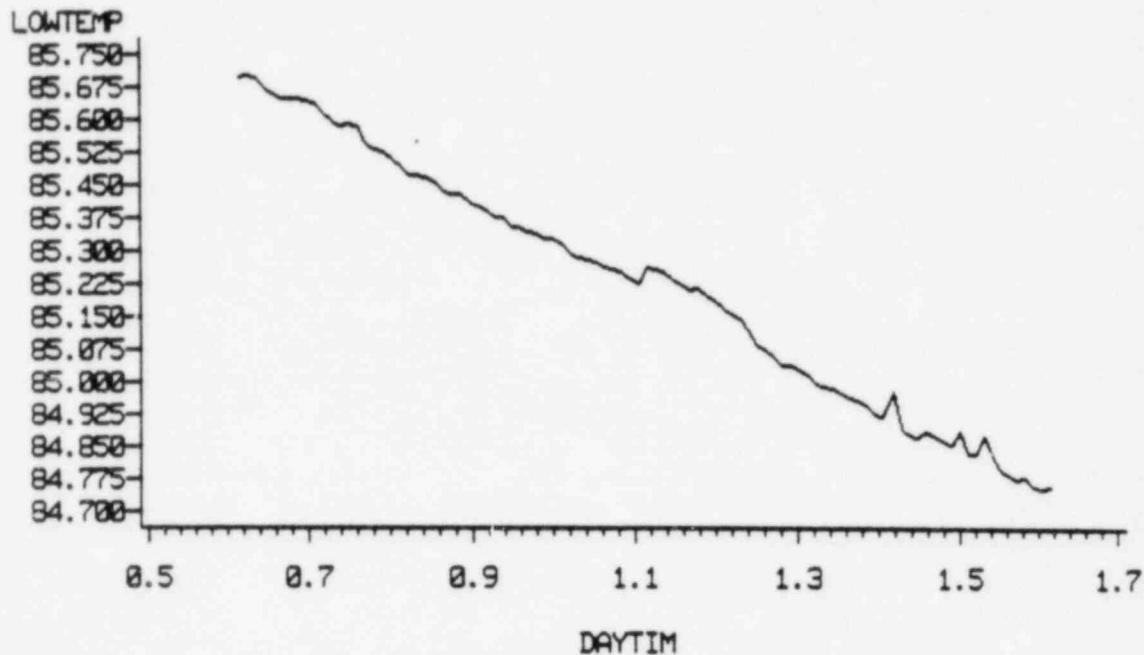
DUKE POWER COMPANY, MCGUIRE 2 NORMALIZED AIR MASS

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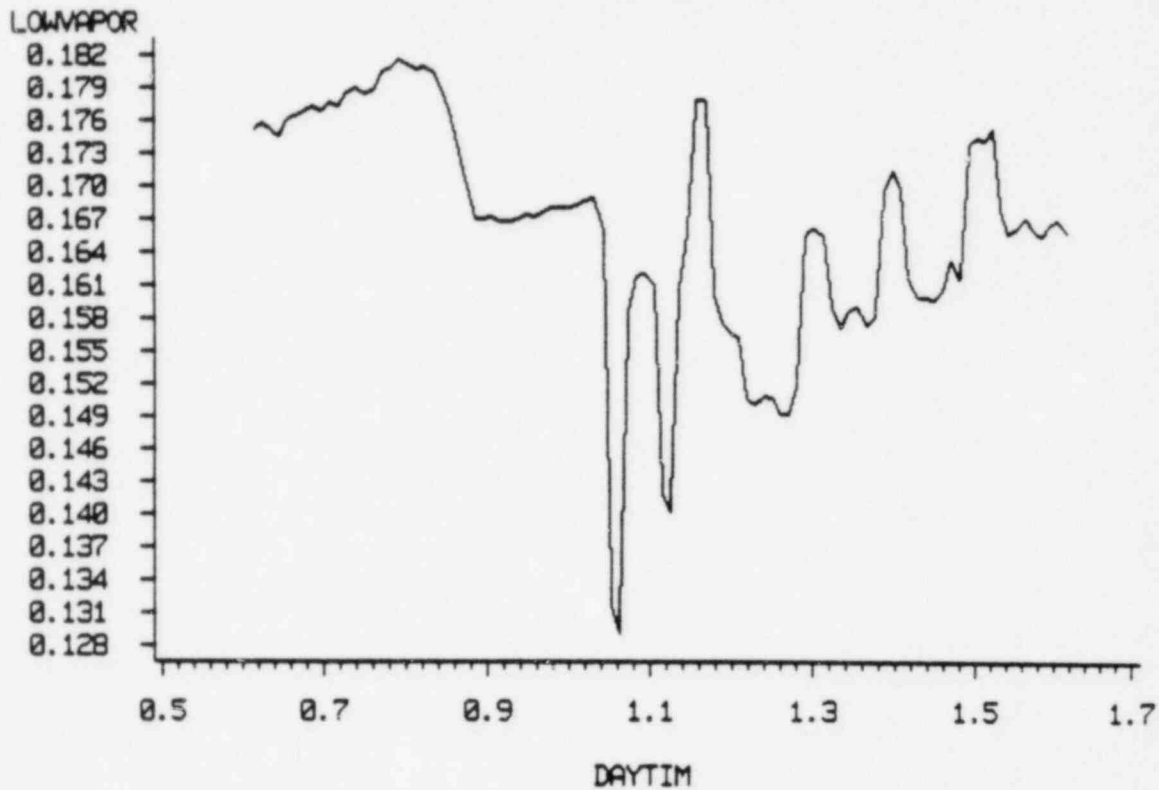
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT TEMPERATURE

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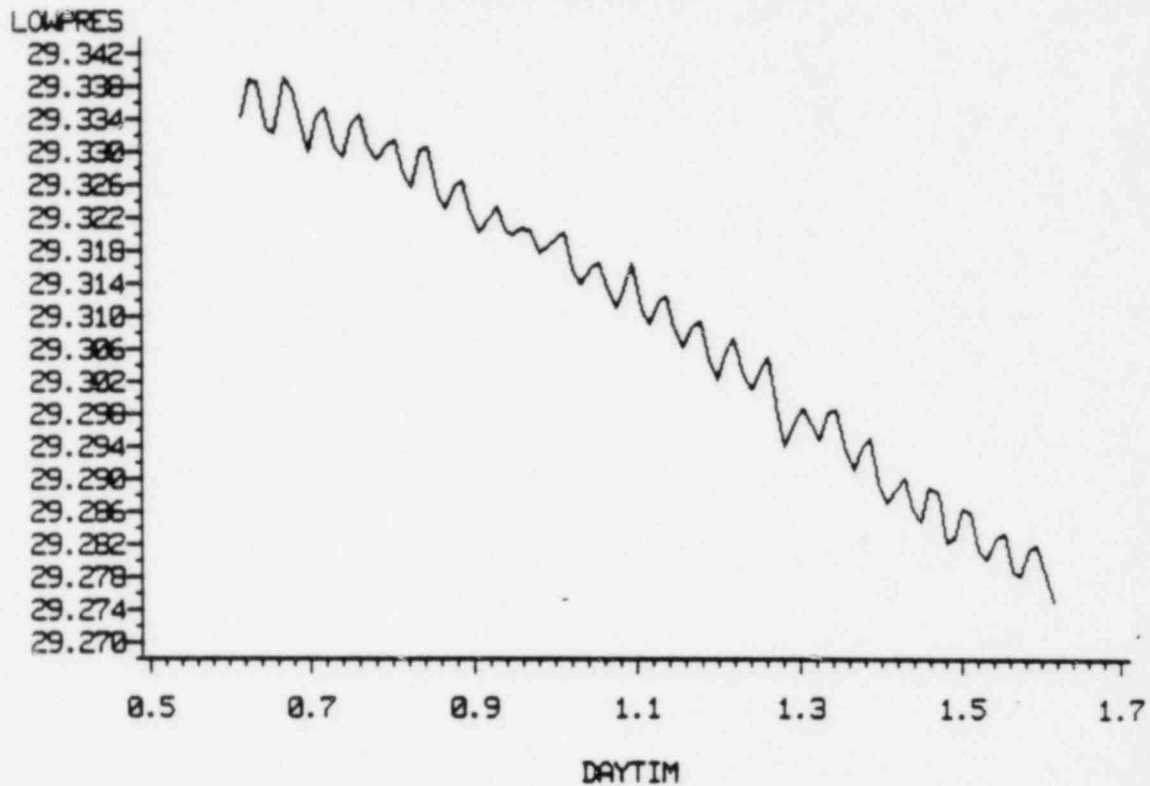
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT VAPOR PRESSURE

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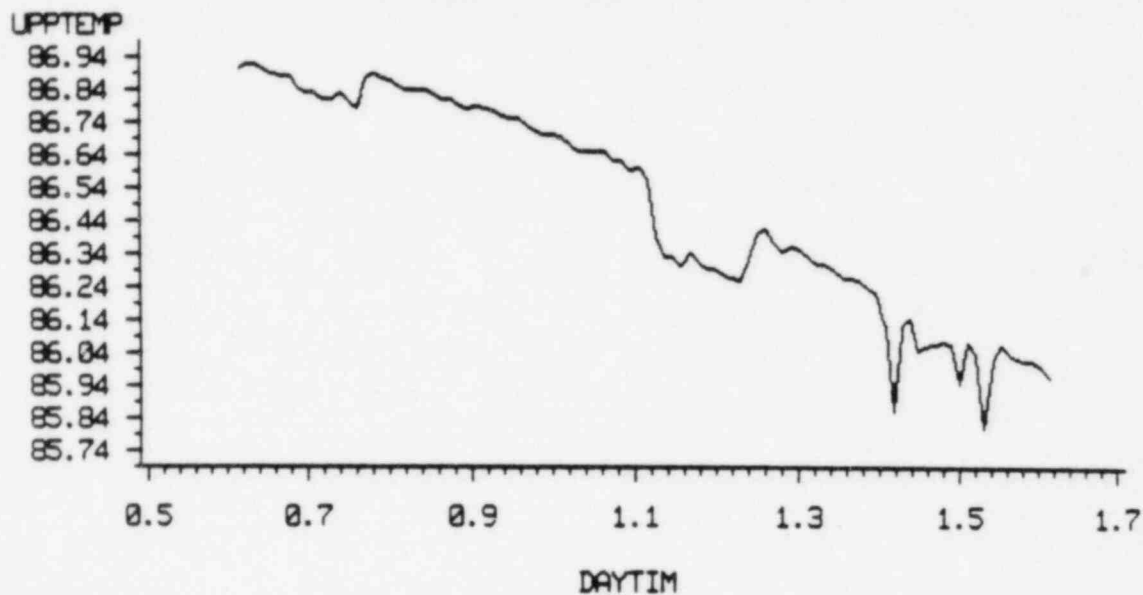
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT PRESSURE

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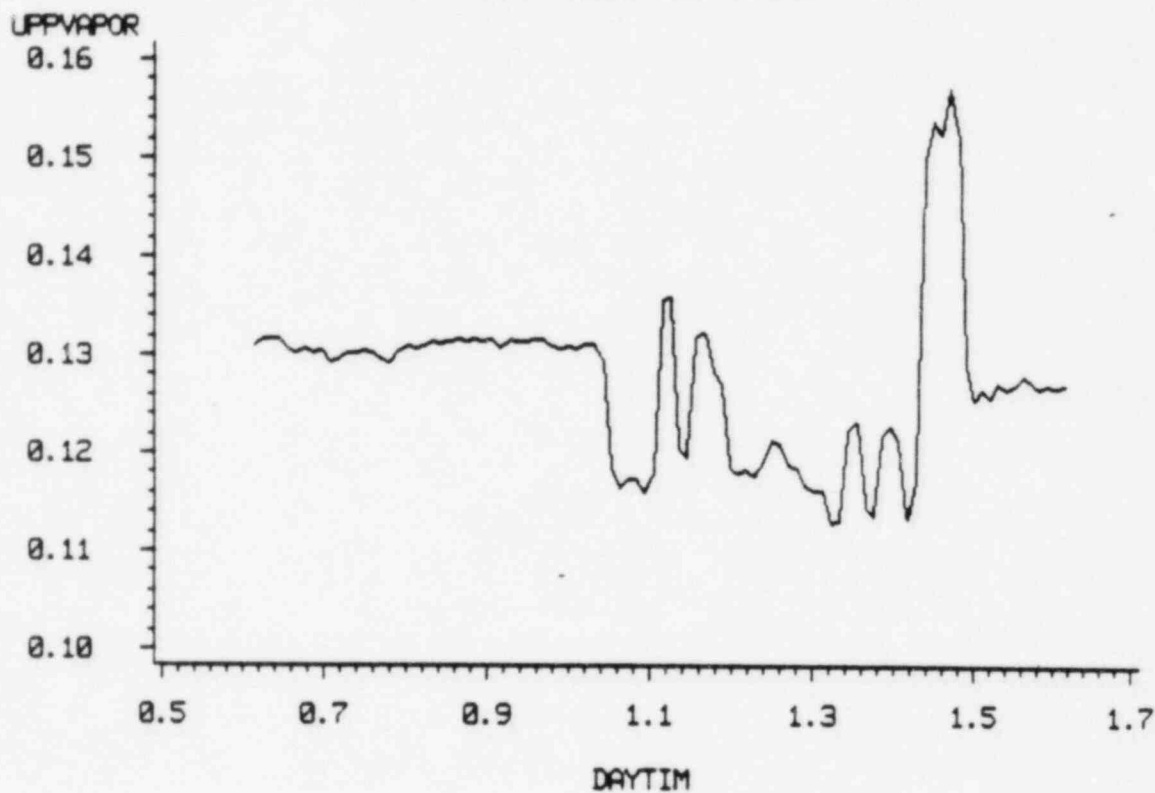
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT TEMPERATURE

82269:1445 THRU 82270:1445



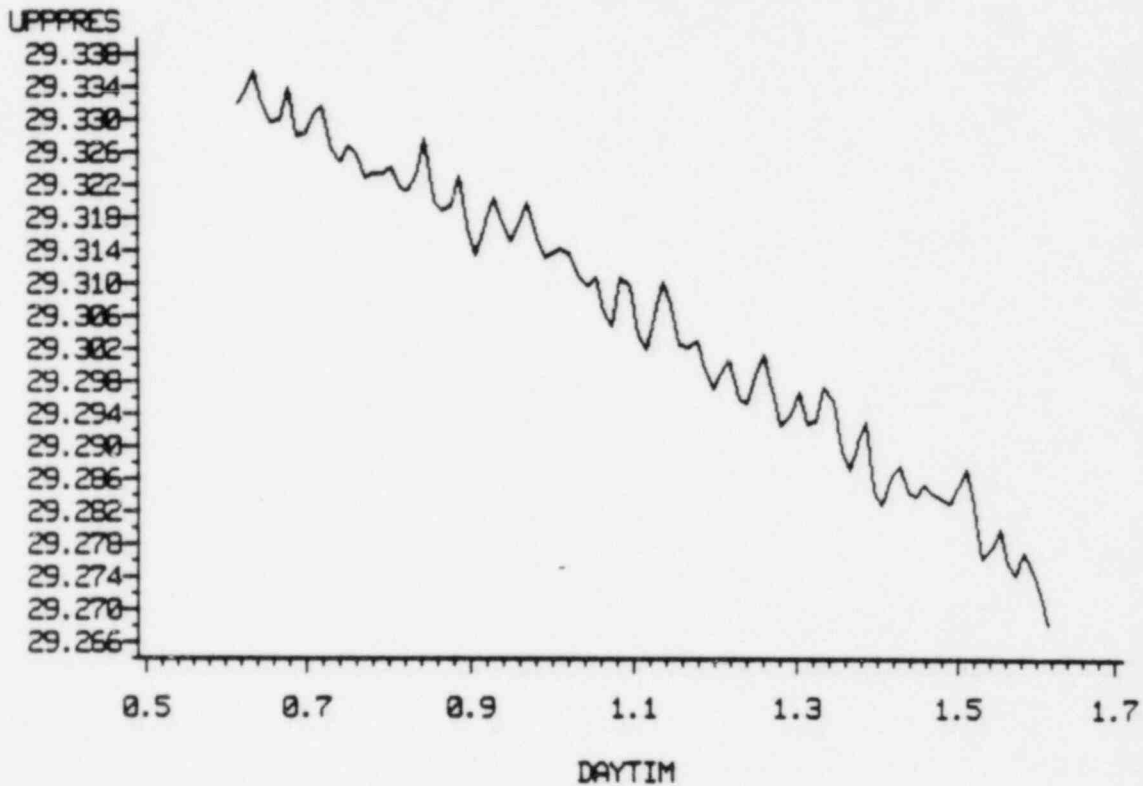
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT VAPOR PRESSURE

82269:1445 THRU 82270:1445



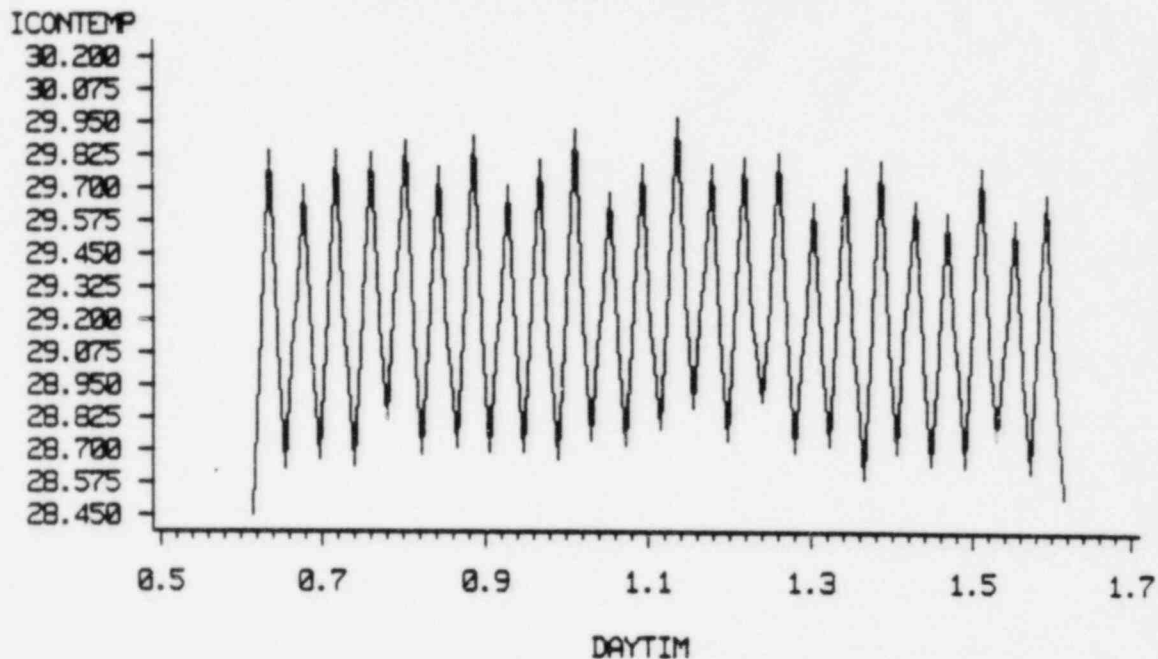
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT PRESSURE

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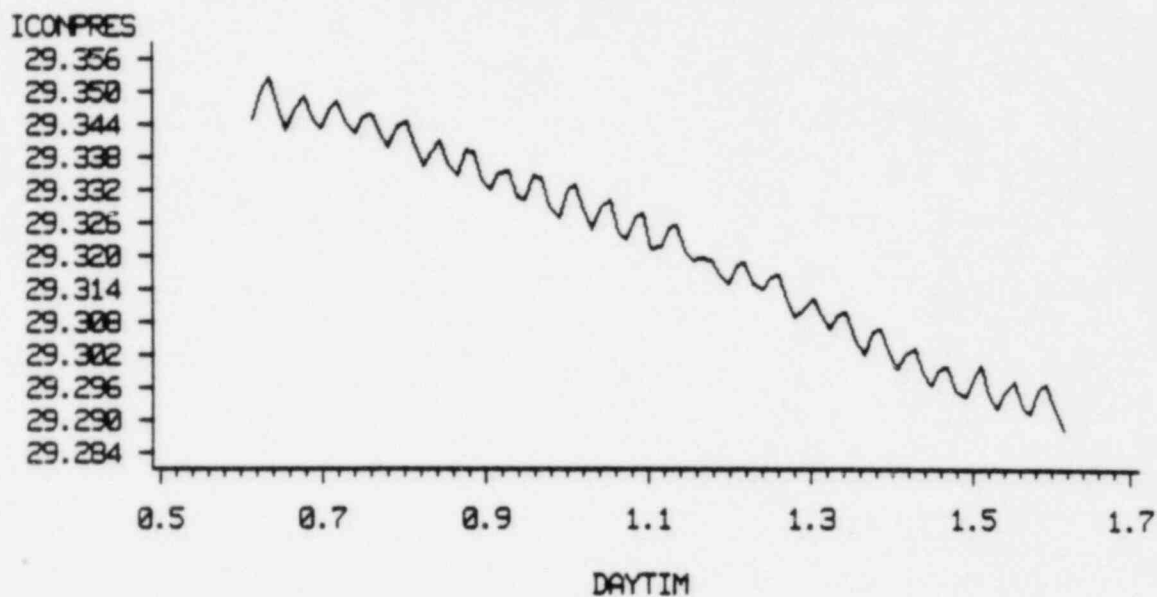
DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER TEMPERATURE

82269:1445 THRU 82270:1445



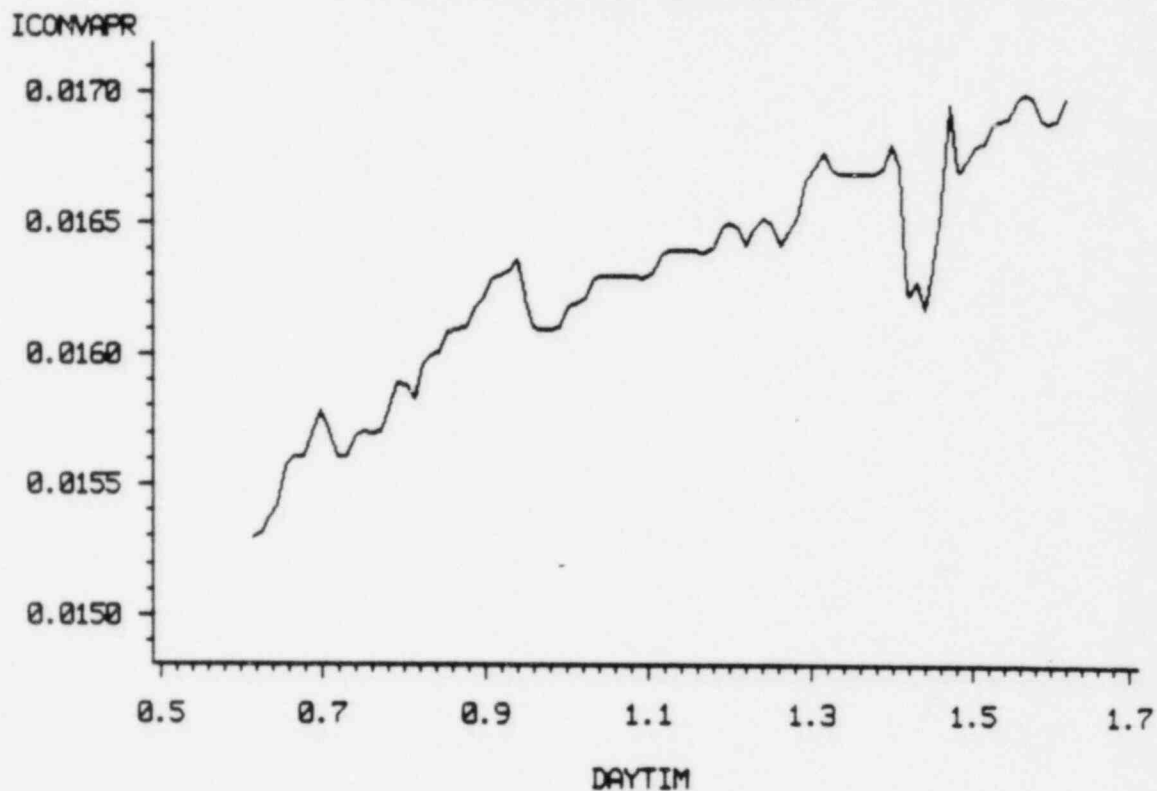
DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER PRESSURE

82269:1445 THRU 82270:1445



DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER VAPOR PRESSURE

82269:1445 THRU 82270:1445



SECTION II

RESULTS OF CONTAMINANT MASS FLOW ANALYSIS (G/DAY)

MDG NO	TIME DAY:HR	MINIMUM LEAK RATE	OBSERVED LEAK RATE	MAXIMUM LEAK RATE
148	82270:1600	0.0000000	0.0000000	0.0000000
149	82270:1615	0.0000000	0.0000000	0.0000000
150	82270:1630	0.0000000	0.5782318	0.0000000
151	82270:1645	-18.1947252	-1.6738892	14.8469469
152	82270:1700	-6.4359459	-0.3985062	3.6389336
153	82270:1715	-1.8493420	0.2996368	2.4486157
154	82270:1730	-1.0037672	0.2288540	1.4614764
155	82270:1745	-0.9357299	-0.0372423	0.8612451
156	82270:1800	-0.0487747	-0.0101575	0.6284596
157	82270:1815	-0.1648906	0.1775411	0.7199728
158	82270:1830	-0.2719035	0.1515057	0.5749149
159	82270:1845	-0.2843045	0.0708355	0.4259754
160	82270:1900	-0.2149383	0.0761832	0.3673048
161	82270:1915	-0.1064294	0.1578266	0.4220826
162	82270:1930	-0.0624179	0.1616468	0.3857114
163	82270:1945	-0.0294144	0.1629998	0.3554141
164	82270:2000	0.0181658	0.1880700	0.3579753
165	82270:2015	0.0656537	0.2195091	0.3733649
166	82270:2030	0.0771011	0.2132766	0.3494520
167	82270:2045	0.0952206	0.2165031	0.3377856
168	82270:2100	0.1021474	0.2110135	0.3198795
169	82270:2115	0.1391634	0.2459737	0.3527840
170	82270:2128	0.1374629	0.2352472	0.3330316
171	82270:2145	0.1621074	0.2534143	0.3455213
172	82270:2200	0.1895182	0.2782711	0.3670241
173	82270:2215	0.2203426	0.3102552	0.4001678
174	82270:2230	0.2452699	0.3320011	0.4187323
175	82270:2245	0.2527947	0.3329236	0.4130475
176	82270:2300	0.2655355	0.3402889	0.4150423
177	82270:2315	0.2843597	0.3563847	0.4784096
178	82270:2330	0.2801442	0.3479775	0.4158107
179	82270:2345	0.2729895	0.3375274	0.4020654
180	82271: 0	0.2733114	0.3318756	0.3944397
181	82271: 15	0.2885870	0.3476722	0.4067574
182	82271: 30	0.2958512	0.3515742	0.4072972
183	82271: 45	0.3008648	0.3533801	0.4058955
184	82271: 100	0.3022585	0.3518297	0.4014009
185	82271: 115	0.3053024	0.3521438	0.3989853
186	82271: 130	0.3051975	0.3496252	0.3940528

LEAK RATE ANALYSIS

0.14964/DAY LEAKAGE OBSERVED AFTER 186 READINGS

LEAK RATE "BANDWIDTH": MIN IS -0.0499, MAX IS 0.4000

REG	TIME	NORM MGT	EXP MGT	DEV/LEAK	OBS LEAK RATE	LEAK RATE LIMIT VIOL.
148	82270:1600	1.000000	1.000053	21.80	0.0000000	
149	82270:1615	0.999804	1.000016	87.69	0.0000000	
150	82270:1630	0.999743	0.999980	97.51	0.5782318	*
151	82270:1645	1.000152	0.999944	-85.95	-1.6738892	*
152	82270:1700	0.999806	0.999907	41.88	-0.3985062	*
153	82270:1715	0.999616	0.999871	104.85	0.2996368	
154	82270:1730	0.999782	0.999838	21.48	0.2288546	
155	82270:1745	0.999993	0.999798	-80.13	-0.0372423	
156	82270:1800	0.999824	0.999762	-25.68	-0.0101575	
157	82270:1815	0.999551	0.999725	71.59	0.1775411	
158	82270:1830	0.999765	0.999689	-31.47	0.1515057	
159	82270:1845	0.999902	0.999652	-102.71	0.0708355	
160	82270:1900	0.999754	0.999616	-56.78	0.0761832	
161	82270:1915	0.999498	0.999579	33.51	0.1578266	
162	82270:1930	0.999655	0.999543	-46.01	0.1616468	
163	82270:1945	0.999643	0.999507	-56.05	0.1629998	
164	82270:2000	0.999512	0.999470	-17.04	0.1880706	
165	82270:2015	0.999416	0.999434	7.17	0.2195091	
166	82270:2030	0.999562	0.999397	-67.63	0.2132766	
167	82270:2045	0.999489	0.999361	-52.56	0.2165031	
168	82270:2100	0.999523	0.999325	-81.85	0.2110135	
169	82270:2115	0.999188	0.999288	41.12	0.2459737	
170	82270:2128	0.999497	0.999257	-96.87	0.2352472	
171	82270:2145	0.999207	0.999215	3.24	0.2538143	
172	82270:2200	0.999075	0.999179	42.64	0.2782711	
173	82270:2215	0.998900	0.999142	99.69	0.3102552	
174	82270:2230	0.998909	0.999106	81.04	0.3320011	
175	82270:2245	0.998989	0.999070	-7.83	0.3329236	
176	82270:2300	0.998961	0.999033	29.90	0.3402889	
177	82270:2315	0.998772	0.998997	92.58	0.3563847	
178	82270:2330	0.999081	0.998960	-49.88	0.3679775	
179	82270:2345	0.999107	0.998924	-75.24	0.3575274	
180	82271: 0	0.998981	0.998888	-38.35	0.3338756	
181	82271: 15	0.998618	0.998851	95.84	0.3476722	
182	82271: 30	0.998739	0.998815	31.18	0.3515742	
183	82271: 45	0.998734	0.998778	18.07	0.3533801	
184	82271: 100	0.998769	0.998742	-11.02	0.3518297	
185	82271: 115	0.998692	0.998705	5.38	0.3521438	
186	82271: 130	0.998727	0.998669	-24.01	0.3476252	

LEAK RATE NORMALIZED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER-CONTAINMENT	UPPER-CONTAINMENT	ICE-CONDENSER
				29.71 BLDG VOLUME	54.11 BLDG VOLUME	16.21 BLDG VOLUME
148	82270:1600	0	1.0000000	1.0000000	1.0000000	1.0000000
149	82270:1615	15	0.9998035	1.0000481	1.0000068	0.9987978
150	82270:1630	30	0.9997433	0.9998241	0.9995938	1.0000567
151	82270:1645	45	1.0001523	0.9997697	1.0001344	1.0008316
152	82270:1700	60	0.9998056	0.9999739	0.9997319	0.9997495
153	82270:1715	75	0.9998163	0.9999006	0.9998515	0.9984501
154	82270:1730	90	0.9997823	0.9996403	0.9997368	1.0001501
155	82270:1745	105	0.9999925	0.9995794	0.9999440	1.0006944
156	82270:1800	120	0.9998239	0.9998021	1.0000411	0.9995724
157	82270:1815	135	0.9945514	0.9996216	0.9999924	0.9981523
158	82270:1830	150	0.9997652	0.9994554	1.0000563	0.9994045
159	82270:1845	165	0.9999017	0.9995824	0.9999425	1.0003027
160	82270:1900	180	0.9997538	0.9995850	1.0000607	0.9991156
161	82270:1915	195	0.9994941	0.9995303	1.0000258	0.9978734
162	82270:1930	210	0.9996548	0.9993490	0.9999039	0.9994130
163	82270:1945	225	0.9996427	0.9993112	0.9996321	1.0002167
164	82270:2000	240	0.9995116	0.9994917	0.9997124	0.9989460
165	82270:2015	255	0.9994164	0.9995850	0.9999107	0.9976679
166	82270:2030	270	0.9995616	0.9993284	0.9997407	0.9994098
167	82270:2045	285	0.9994886	0.9992337	0.9994381	1.0000561
168	82270:2100	300	0.9995233	0.9992762	0.9998580	0.9989303
169	82270:2115	315	0.9991883	0.9994718	0.9997229	0.9971314
170	82270:2128	328	0.9994918	0.9991874	0.9997429	0.9992415
171	82270:2145	345	0.9992074	0.9991571	0.9996953	1.0000344
172	82270:2200	360	0.9990754	0.9994028	0.9988891	0.9990941
173	82270:2215	375	0.9989004	0.9993085	0.9990414	0.9978123
174	82270:2230	390	0.9989092	0.9990710	0.9987232	0.9991988
175	82270:2245	405	0.9990886	0.9990408	0.9988170	0.9999164
176	82270:2300	420	0.9989506	0.9991685	0.9988876	0.9988376
177	82270:2315	435	0.9987720	0.9992734	0.9989351	0.9974653
178	82270:2330	450	0.9990815	0.9992997	0.9990068	0.9989468
179	82270:2345	465	0.9991066	0.9993009	0.9988252	0.9996768
180	82271:0	480	0.9989806	0.9994094	0.9989262	0.9984410
181	82271:15	495	0.9986184	0.9995059	0.9986924	0.9969451
182	82271:30	510	0.9987390	0.9993538	0.9984692	0.9985362
183	82271:45	525	0.9987144	0.9992584	0.9982344	0.9993663
184	82271:100	540	0.9987686	0.9992151	0.9986619	0.9983552
185	82271:115	555	0.9986923	0.9993268	0.9988538	0.9971730
186	82271:130	570	0.9987473	0.9991081	0.9986423	0.9983568

WEIGHTED COMPARTMENT AVERAGES BY READING

RDG	LOWER-COMPARTMENT			UPPER-COMPARTMENT			ICE-CONDENSER			AVG PSIA
	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA	AVG PSIA	AVG TEMP	VAP PSIA		
148	84.731	0.1677	29.2740	85.834	0.1268	29.2680	29.131	0.0170	29.2880	
149	84.727	0.1675	29.2750	85.801	0.1264	29.2660	29.736	0.0170	29.2190	
150	84.707	0.1681	29.2680	85.879	0.1252	29.2570	29.001	0.0171	29.2820	
151	84.771	0.1663	29.2680	85.583	0.1273	29.2590	28.623	0.0172	29.2820	
152	84.707	0.1677	29.2720	85.806	0.1271	29.2590	29.185	0.0171	29.2840	
153	84.703	0.1681	29.2700	85.783	0.1269	29.2610	29.838	0.0171	29.2850	
154	84.708	0.1694	29.2640	85.743	0.1273	29.2560	28.872	0.0171	29.2770	
155	84.707	0.1674	29.2600	85.565	0.1266	29.2530	28.573	0.0172	29.2750	
156	84.720	0.1694	29.2630	85.539	0.1264	29.2530	29.154	0.0172	29.2770	
157	84.704	0.1692	29.2630	85.553	0.1273	29.2530	29.867	0.0171	29.2780	
158	84.677	0.1694	29.2570	85.523	0.1258	29.2520	29.118	0.0172	29.2700	
159	84.570	0.1685	29.2540	85.458	0.1246	29.2440	28.663	0.0172	29.2690	
160	84.579	0.1689	29.2550	85.496	0.1261	29.2510	29.260	0.0172	29.2700	
161	84.622	0.1692	29.2560	85.533	0.1262	29.2520	29.886	0.0171	29.2710	
162	84.628	0.1681	29.2500	85.523	0.1242	29.2460	29.047	0.0172	29.2660	
163	84.636	0.1678	29.2490	85.507	0.1260	29.2390	28.588	0.0172	29.2620	
164	84.640	0.1679	29.2540	85.468	0.1257	29.2390	29.260	0.0172	29.2650	
165	84.608	0.1663	29.2540	85.448	0.1250	29.2430	29.904	0.0171	29.2660	
166	84.623	0.1660	29.2470	85.388	0.1252	29.2350	28.983	0.0172	29.2620	
167	84.608	0.1666	29.2440	85.517	0.1251	29.2330	28.600	0.0172	29.2580	
168	84.599	0.1668	29.2450	85.396	0.1253	29.2390	29.251	0.0171	29.2640	
169	84.591	0.1675	29.2510	85.405	0.1248	29.2350	29.499	0.0172	29.2560	
170	84.578	0.1675	29.2420	85.315	0.1250	29.2310	28.932	0.0172	29.2540	
171	84.483	0.1664	29.2350	85.714	0.1236	29.2280	28.510	0.0172	29.2520	
172	84.478	0.1676	29.2430	85.698	0.1245	29.2260	29.020	0.0172	29.2550	
173	84.476	0.1685	29.2410	85.702	0.1258	29.2320	29.631	0.0172	29.2540	
174	84.471	0.1706	29.2360	85.688	0.1258	29.2220	28.917	0.0173	29.2520	
175	84.445	0.1698	29.2330	85.683	0.1247	29.2240	28.466	0.0173	29.2460	
176	84.446	0.1691	29.2360	85.682	0.1253	29.2260	29.078	0.0172	29.2510	
177	84.444	0.1702	29.2400	85.689	0.1256	29.2280	29.735	0.0172	29.2500	
178	84.445	0.1572	29.2300	85.386	0.1337	29.2220	28.908	0.0172	29.2440	
179	84.484	0.1552	29.2280	85.395	0.1335	29.2170	28.524	0.0173	29.2410	
180	84.476	0.1565	29.2320	85.437	0.1333	29.2220	29.172	0.0172	29.2450	
181	84.430	0.1561	29.2320	85.533	0.1339	29.2210	29.906	0.0172	29.2450	
182	84.399	0.1552	29.2250	85.587	0.1336	29.2170	28.992	0.0172	29.2370	
183	84.393	0.1553	29.2220	85.593	0.1341	29.2110	28.535	0.0172	29.2340	
184	84.439	0.1561	29.2240	85.433	0.1342	29.2150	29.063	0.0173	29.2360	
185	84.418	0.1550	29.2250	85.360	0.1345	29.2170	29.676	0.0172	29.2380	
186	84.399	0.1574	29.2200	85.334	0.1340	29.2090	28.994	0.0173	29.2320	

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 3.00, MAX TOLERANCE IS 3.00

BANK-POINT(S):		101		102		103		104		105		106	
RDG	TIME	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG
148	8227011600	76.330	76.440	82.561	82.579	82.560	82.669	82.582	82.657	82.512	82.564	84.136	84.159
149	8227011615	76.310	76.420	82.491	82.570*	82.590	82.656	82.612	82.648	82.512	82.556	84.136	84.155
150	8227011630	76.290	76.400	82.461	82.559	82.580	82.644	82.592	82.640	82.492	82.547	84.066	84.146*
151	8227011645	76.300	76.383	82.521	82.550	82.550	82.631	82.592	82.632	82.502	82.540	84.116	84.140
152	8227011700	76.250	76.365	82.491	82.541	82.570	82.620	82.592	82.626	82.492	82.532	84.116	84.135
153	8227011715	76.260	76.348	82.491	82.533	82.540	82.609	82.572	82.618	82.472	82.524	84.106	84.130
154	8227011730	76.280	76.334	82.541	82.529	82.540	82.598	82.592	82.613	82.462	82.516	84.096	84.125
155	8227011745	76.270	76.323	82.481	82.524	82.510	82.587	82.552	82.606	82.452	82.507	84.096	84.121
156	8227011800	76.250	76.312	82.461	82.517	82.510	82.576	82.512	82.596	82.452	82.499	84.096	84.116
157	8227011815	76.290	76.304	82.451	82.509	82.500	82.565	82.532	82.586	82.442	82.491	84.086	84.112
158	8227011830	76.250	76.296	82.451	82.501	82.500	82.554	82.532	82.577	82.432	82.482	84.056	84.106
159	8227011845	76.100	76.280*	82.411	82.485*	82.280	82.531*	82.432	82.563*	82.332	82.468*	83.515	84.066*
160	8227011900	76.190	76.265	82.451	82.473	82.320	82.505	82.442	82.548	82.352	82.453	83.255	83.993*
161	8227011915	76.230	76.254	82.481	82.468	82.330	82.480	82.452	82.533	82.402	82.441	83.275	83.907
162	8227011930	76.240	76.248	82.471	82.464	82.340	82.456	82.482	82.522	82.392	82.431	83.235	83.816
163	8227011945	76.230	76.243	82.531	82.467*	82.350	82.437	82.482	82.513	82.402	82.424	83.195	83.726
164	8227012000	76.240	76.240	82.481	82.469	82.300	82.417	82.472	82.505	82.392	82.418	83.175	83.641
165	8227012015	76.210	76.236	82.461	82.470*	82.310	82.399	82.462	82.498	82.382	82.412	83.165	83.564
166	8227012030	76.210	76.233	82.471	82.471	82.320	82.384	82.442	82.491	82.372	82.406	83.145	83.494
167	8227012045	76.210	76.229	82.401	82.467*	82.300	82.371	82.422	82.482	82.372	82.404	83.115	83.431
168	8227012100	76.190	76.225	82.421	82.461	82.290	82.358	82.402	82.472	82.382	82.397	83.095	83.375
169	8227012115	76.180	76.220	82.421	82.456	82.270	82.345	82.442	82.465	82.362	82.392	83.065	83.324
170	8227012128	76.140	76.212*	82.421	82.451	82.270	82.334	82.392	82.456	82.352	82.387	83.035	83.277
171	8227012145	76.170	76.205	82.431	82.447	82.220	82.320	82.382	82.446	82.342	82.381	83.015	83.234
172	8227012200	76.190	76.200	82.401	82.442	82.230	82.306	82.392	82.438	82.332	82.375	83.005	83.196
173	8227012215	76.180	76.196	82.401	82.436	82.230	82.294	82.392	82.430	82.332	82.367	82.995	83.161
174	8227012230	76.140	76.190	82.401	82.431	82.240	82.284	82.402	82.424	82.302	82.359	82.985	83.131
175	8227012245	76.100	76.181*	82.481	82.425	82.220	82.274	82.352	82.416	82.292	82.350	82.975	83.104
176	8227012300	76.100	76.171	82.381	82.419	82.200	82.264	82.362	82.408	82.292	82.341	82.975	83.081
177	8227012315	76.140	76.164	82.411	82.415	82.200	82.254	82.362	82.400	82.292	82.333	82.945	83.060
178	8227012330	76.140	76.158	82.371	82.410	82.170	82.243	82.342	82.393	82.272	82.324	82.935	83.040
179	8227012345	76.170	76.155	82.361	82.404	82.220	82.236	82.332	82.384	82.252	82.315	82.925	83.021
180	822711: 0	76.150	76.154	82.361	82.398	82.180	82.228	82.322	82.376	82.262	82.306	82.895	83.003
181	822711: 15	76.180	76.154*	82.351	82.392	82.120	82.217	82.302	82.366	82.272	82.299	82.895	82.986
182	822711: 30	76.170	76.156*	82.341	82.385	82.150	82.207	82.312	82.358	82.262	82.286	82.895	82.969
183	822711: 45	76.170	76.157	82.341	82.379	82.170	82.199	82.292	82.349	82.241	82.286	82.895	82.952
184	822711: 100	76.170	76.159	82.311	82.371	82.110	82.188	82.292	82.340	82.231	82.279	82.895	82.936
185	822711: 115	76.150	76.160*	82.301	82.362	82.120	82.178	82.292	82.332	82.221	82.271	82.895	82.921
186	822711: 130	76.170	76.161*	82.301	82.353	82.100	82.168	82.252	82.323	82.191	82.262	82.895	82.906

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 1.00, MAX TOLERANCE IS 3.00

BANK-POINT(S):		107		108		109		110		201		202	
RDG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	82270:1600	85.287	85.143	81.711	81.737	85.244	85.286	93.547	93.656	93.770	93.842	91.914	91.940
149	82270:1615	85.387	85.174	81.701	81.732	85.234	85.278	93.507	93.640	93.780	93.831	91.864	91.931
150	82270:1630	84.947	85.177*	81.711	81.727	85.224	85.270	93.497	93.622	93.740	93.819	91.844	91.920
151	82270:1645	85.917	85.225*	81.691	81.723	85.234	85.263	93.467	93.602	93.740	93.807	91.854	91.910
152	82270:1700	85.287	85.255	81.691	81.714	85.224	85.257	93.437	93.581	93.730	93.796	91.804	91.898
153	82270:1715	85.247	85.272	81.681	81.713	85.214	85.251	93.407	93.556	93.720	93.785	91.844	91.888
154	82270:1730	85.287	85.283	81.671	81.708	85.204	85.245	93.377	93.534	93.709	93.774	91.834	91.879
155	82270:1745	85.697	85.314*	81.631	81.700	85.154	85.235	93.337	93.508	93.679	93.762	91.804	91.869
156	82270:1800	85.897	85.369*	81.661	81.693	85.184	85.227	93.317	93.482	93.679	93.750	91.764	91.857
157	82270:1815	85.807	85.427	81.651	81.687	85.174	85.219	93.277	93.454	93.649	93.737	91.794	91.846
158	82270:1830	85.767	85.480	81.641	81.680	85.154	85.210	93.247	93.425	93.629	93.723	91.734	91.833
159	82270:1845	85.357	85.503	81.581	81.670*	84.503	85.161*	93.217	93.396	93.569	93.705	91.694	91.817
160	82270:1900	85.107	85.491*	81.551	81.657	84.163	85.071*	93.217	93.369	93.579	93.687	91.664	91.799
161	82270:1915	85.237	85.468*	81.611	81.647	84.113	84.961	93.247	93.346	93.619	93.673	91.734	91.784
162	82270:1930	85.227	85.441	81.601	81.638	84.083	84.844	93.217	93.325	93.609	93.661	91.714	91.772
163	82270:1945	85.467	85.427	81.601	81.631	84.003	84.725	93.227	93.307	93.609	93.651	91.724	91.762
164	82270:2000	85.437	85.419	81.601	81.625	83.973	84.612	93.177	93.289	93.599	93.642	91.734	91.754
165	82270:2015	85.417	85.415	81.591	81.620	83.943	84.506	93.157	93.270	93.589	93.634	91.714	91.748
166	82270:2030	85.497	85.418*	81.591	81.615	83.923	84.410	93.227	93.257	93.569	93.625	91.694	91.741
167	82270:2045	85.567	85.429*	81.571	81.609	83.883	84.323	93.247	93.249	93.569	93.617	91.674	91.732
168	82270:2100	85.467	85.437	81.561	81.603	83.863	84.245	93.247	93.245	93.569	93.609	91.684	91.725
169	82270:2115	85.447	85.443	81.551	81.597	83.833	84.176	93.227	93.241	93.539	93.600	91.684	91.718
170	82270:2128	85.417	85.444*	81.541	81.589	83.803	84.114	93.187	93.235	93.529	93.591	91.674	91.711
171	82270:2145	84.047	85.358*	81.531	81.582	83.753	84.056	93.177	93.229	93.498	93.580	91.654	91.704
172	82270:2200	84.057	85.228*	81.531	81.574	83.763	84.005	93.167	93.221	93.488	93.568	91.624	91.695
173	82270:2215	83.957	85.075	81.521	81.567	83.733	83.960	93.127	93.211	93.488	93.556	91.664	91.688
174	82270:2230	83.957	84.919	81.521	81.560	83.723	83.919	93.087	93.198	93.478	93.545	91.614	91.679
175	82270:2245	83.887	84.767	81.511	81.552	83.703	83.883	93.087	93.183	93.468	93.534	91.644	91.672
176	82270:2300	83.907	84.628	81.491	81.545	83.693	83.851	93.067	93.168	93.458	93.523	91.624	91.665
177	82270:2315	83.787	84.497	81.501	81.538	83.673	83.821	93.027	93.150	93.438	93.511	91.634	91.659
178	82270:2330	84.767	84.440	81.501	81.531	83.663	83.795	93.027	93.133	93.438	93.500	91.614	91.653
179	82270:2345	84.647	84.421*	81.491	81.525	83.653	83.771	93.007	93.115	93.418	93.489	91.604	91.647
180	82271: 0	84.567	84.420*	81.481	81.519	83.643	83.750	92.977	93.096	93.418	93.478	91.594	91.640
181	82271: 15	84.507	84.424*	81.471	81.513	83.623	83.730	92.947	93.077	93.408	93.468	91.624	91.635
182	82271: 30	83.737	84.384*	81.461	81.506	83.603	83.711	92.907	93.055	93.398	93.457	91.564	91.626
183	82271: 45	83.647	84.315*	81.461	81.499	83.573	83.691	92.897	93.033	93.388	93.447	91.554	91.619
184	82271: 100	84.347	84.278	81.451	81.492	83.563	83.672	92.887	93.011	93.378	93.437	91.594	91.613
185	82271: 115	84.307	84.259	81.441	81.485	83.553	83.654	92.837	92.988	93.378	93.428	91.544	91.605
186	82271: 130	84.177	84.244	81.411	81.478	83.533	83.636	92.807	92.964	93.338	93.417	91.544	91.596

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 3.00, MAX TOLERANCE IS 3.00

MARK-POINTS:		203	204	205	206	207	208
HUG	TIME	99.071	99.071	99.071	99.071	99.071	99.071
148	02270:1600	92.061	92.061	92.061	92.061	92.061	92.061
149	02270:1615	92.061	92.061	92.061	92.061	92.061	92.061
150	02270:1630	92.041	92.041	92.041	92.041	92.041	92.041
151	02270:1645	92.031	92.031	92.031	92.031	92.031	92.031
152	02270:1700	92.001	92.001	92.001	92.001	92.001	92.001
153	02270:1715	91.991	91.991	91.991	91.991	91.991	91.991
154	02270:1730	91.971	91.971	91.971	91.971	91.971	91.971
155	02270:1745	91.941	91.941	91.941	91.941	91.941	91.941
156	02270:1800	91.931	91.931	91.931	91.931	91.931	91.931
157	02270:1815	91.901	91.901	91.901	91.901	91.901	91.901
158	02270:1830	91.891	91.891	91.891	91.891	91.891	91.891
159	02270:1845	91.891	91.891	91.891	91.891	91.891	91.891
160	02270:1900	91.911	91.911	91.911	91.911	91.911	91.911
161	02270:1915	91.901	91.901	91.901	91.901	91.901	91.901
162	02270:1930	91.881	91.881	91.881	91.881	91.881	91.881
163	02270:1945	91.861	91.861	91.861	91.861	91.861	91.861
164	02270:2000	91.861	91.861	91.861	91.861	91.861	91.861
165	02270:2015	91.861	91.861	91.861	91.861	91.861	91.861
166	02270:2030	91.861	91.861	91.861	91.861	91.861	91.861
167	02270:2045	91.840	91.840	91.840	91.840	91.840	91.840
168	02270:2100	91.820	91.820	91.820	91.820	91.820	91.820
169	02270:2115	91.810	91.810	91.810	91.810	91.810	91.810
170	02270:2128	91.800	91.800	91.800	91.800	91.800	91.800
171	02270:2145	91.780	91.780	91.780	91.780	91.780	91.780
172	02270:2200	91.770	91.770	91.770	91.770	91.770	91.770
173	02270:2215	91.750	91.750	91.750	91.750	91.750	91.750
174	02270:2230	91.750	91.750	91.750	91.750	91.750	91.750
175	02270:2245	91.730	91.730	91.730	91.730	91.730	91.730
176	02270:2300	91.720	91.720	91.720	91.720	91.720	91.720
177	02270:2315	91.720	91.720	91.720	91.720	91.720	91.720
178	02270:2330	91.700	91.700	91.700	91.700	91.700	91.700
179	02270:2345	91.670	91.670	91.670	91.670	91.670	91.670
180	02270:2350	91.660	91.660	91.660	91.660	91.660	91.660
181	02270:2400	91.640	91.640	91.640	91.640	91.640	91.640
182	02270:2415	91.620	91.620	91.620	91.620	91.620	91.620
183	02270:2430	91.615	91.615	91.615	91.615	91.615	91.615
184	02270:2445	91.615	91.615	91.615	91.615	91.615	91.615
185	02270:2450	91.615	91.615	91.615	91.615	91.615	91.615
186	02270:2500	91.615	91.615	91.615	91.615	91.615	91.615
187	02270:2515	91.615	91.615	91.615	91.615	91.615	91.615
188	02270:2530	91.615	91.615	91.615	91.615	91.615	91.615
189	02270:2545	91.615	91.615	91.615	91.615	91.615	91.615
190	02270:2550	91.615	91.615	91.615	91.615	91.615	91.615
191	02270:2600	91.615	91.615	91.615	91.615	91.615	91.615
192	02270:2615	91.615	91.615	91.615	91.615	91.615	91.615
193	02270:2630	91.615	91.615	91.615	91.615	91.615	91.615
194	02270:2645	91.615	91.615	91.615	91.615	91.615	91.615
195	02270:2650	91.615	91.615	91.615	91.615	91.615	91.615
196	02270:2700	91.615	91.615	91.615	91.615	91.615	91.615
197	02270:2715	91.615	91.615	91.615	91.615	91.615	91.615
198	02270:2730	91.615	91.615	91.615	91.615	91.615	91.615
199	02270:2745	91.615	91.615	91.615	91.615	91.615	91.615
200	02270:2750	91.615	91.615	91.615	91.615	91.615	91.615

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 3.00, MAX TOLERANCE IS 3.00

MARK-POINT(S):		200		210		301		302		303		304	
RDG	TIME	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG
148	8227011600	84.690	84.750	86.006	86.058	84.413	84.416	82.099	82.111	85.375	85.290	83.209	83.175*
149	8227011615	84.680	84.739	85.996	86.049	84.423	84.416*	82.069	82.106	85.375	85.301	83.239	83.180*
150	8227011630	84.680	84.729	86.016	86.042	84.403	84.415*	82.099	82.103	85.265	85.306*	83.259	83.188*
151	8227011645	84.670	84.720	86.016	86.037	84.413	84.415	82.089	82.101	85.915	85.346*	83.299	83.199
152	8227011700	84.670	84.712	86.046	86.036*	84.413	84.414	82.079	82.098	85.285	85.365	83.309	83.212
153	8227011715	84.660	84.704	85.986	86.032*	84.403	84.413*	82.109	82.097*	85.315	85.373	83.379	83.230
154	8227011730	84.650	84.696	86.026	86.029	84.382	84.411*	82.109	82.097*	85.365	85.376	83.379	83.249
155	8227011745	84.630	84.687	86.026	86.027	84.393	84.408	82.089	82.097*	85.535	85.388*	83.349	83.267
156	8227011800	84.630	84.679	85.996	86.024*	84.372	84.404	82.099	82.097*	85.815	85.422*	83.349	83.281
157	8227011815	84.620	84.670	85.986	86.020	84.382	84.401	82.099	82.097*	85.715	85.459	83.339	83.293
158	8227011830	84.600	84.661	86.016	86.018	84.352	84.396	82.059	82.095*	85.665	85.493	83.349	83.303
159	8227011845	84.540	84.649	85.575	85.989*	84.342	84.390	82.009	82.088*	85.735	85.527	83.349	83.312
160	8227011900	84.570	84.616	85.465	85.940*	84.433	84.389*	82.109	82.086*	85.735	85.559	83.529	83.330*
161	8227011915	84.590	84.627	85.465	85.882	84.443	84.392*	82.159	82.089*	85.775	85.591	83.649	83.361*
162	8227011930	84.570	84.618	85.445	85.823	84.403	84.394	82.174	82.096*	85.805	85.622	83.669	83.397
163	8227011945	84.570	84.610	85.455	85.766	84.423	84.397	82.209	82.108*	85.875	85.655	83.719	83.438
164	8227012000	84.580	84.603	85.415	85.713	84.403	84.399	82.249	82.123	85.895	85.689	83.699	83.477
165	8227012015	84.580	84.598	85.475	85.661	84.403	84.401	82.249	82.139	85.905	85.721	83.759	83.516
166	8227012030	84.570	84.593	85.485	85.615	84.382	84.400*	82.280	82.157	86.025	85.759	83.779	83.555
167	8227012045	84.550	84.588	85.475	85.574	84.393	84.400*	82.249	82.173	86.035	85.797	83.749	83.589
168	8227012100	84.550	84.583	85.465	85.538	84.362	84.397*	82.280	82.189	85.935	85.827	83.739	83.617
169	8227012115	84.530	84.576	85.475	85.504	84.352	84.393*	82.300	82.205	85.965	85.853	83.709	83.639
170	8227012128	84.530	84.570	85.405	85.473	84.352	84.388	82.310	82.220	86.045	85.879	83.759	83.659
171	8227012145	84.510	84.562	85.285	85.444	84.332	84.381	82.280	82.232	85.015	85.840*	83.689	83.672
172	8227012200	84.520	84.556	85.275	85.417	84.302	84.373	82.290	82.243	84.943	85.762*	83.689	83.680
173	8227012215	84.520	84.550	85.275	85.392	84.332	84.366	82.300	82.252	84.965	85.668	83.729	83.688
174	8227012230	84.500	84.543	85.235	85.369	84.312	84.358	82.290	82.260	84.925	85.569	83.689	83.692
175	8227012245	84.520	84.538	85.275	85.350	84.272	84.349	82.290	82.266	84.935	85.474	83.679	83.694*
176	8227012300	84.510	84.533	85.195	85.330	84.312	84.341	82.310	82.272	84.955	85.388	83.669	83.693*
177	8227012315	84.490	84.528	85.165	85.308	84.282	84.333	82.310	82.278	85.015	85.316	83.679	83.692*
178	8227012330	84.510	84.524	85.195	85.288	84.272	84.325	82.310	82.283	85.615	85.294*	83.729	83.694*
179	8227012345	84.480	84.519	85.135	85.268	84.282	84.318	82.310	82.288	85.695	85.307*	83.679	83.694
180	822711: 0	84.480	84.513	85.195	85.252	84.282	84.311	82.330	82.293	85.905	85.352*	83.619	83.689
181	822711: 15	84.430	84.505*	85.185	85.239	84.252	84.304	82.300	82.296	85.045	85.358*	83.699	83.687
182	822711: 30	84.450	84.497	85.185	85.228	84.242	84.296	82.320	82.300	85.055	85.342*	83.639	83.683*
183	822711: 45	84.430	84.488	85.145	85.217	84.232	84.268	82.300	82.302	85.075	85.317*	83.639	83.678
184	822711: 100	84.440	84.480	85.105	85.203	84.232	84.280	82.300	82.303	85.565	85.318*	83.629	83.672
185	822711: 115	84.430	84.473	85.105	85.190	84.222	84.271	82.310	82.304	85.605	85.336*	83.589	83.663
186	822711: 130	84.390	84.463	85.085	85.175	84.202	84.262	82.300	82.304*	85.615	85.364	83.559	83.652

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 1.00, MAX TOLERANCE IS 3.00

BANK-POINT(S):		305		306		307		308		309		310	
RDG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	82270:1600	85.797	85.835	84.118	84.168	84.498	84.569*	86.983	87.002	85.999	86.102	86.399	86.480
149	82270:1615	85.797	85.829	84.118	84.160	84.498	84.562*	86.893	86.991	86.009	86.088	86.439	86.470
150	82270:1630	85.777	85.822	84.098	84.151	84.688	84.565*	86.923	86.981	85.969	86.072	86.399	86.460
151	82270:1645	85.817	85.818	84.058	84.141	84.598	84.571	86.933	86.972	85.979	86.058	86.409	86.451
152	82270:1700	85.787	85.814	84.098	84.132	84.578	84.574	86.901	86.963	86.039	86.049	86.339	86.439
153	82270:1715	85.787	85.810	84.058	84.123	84.558	84.574*	86.893	86.953	86.009	86.041	86.379	86.429
154	82270:1730	85.807	85.807	84.058	84.114	84.658	84.580*	86.863	86.942	85.919	86.029*	86.339	86.417
155	82270:1745	85.767	85.803*	84.038	84.104	84.488	84.577*	86.863	86.931	85.939	86.016	86.349	86.406
156	82270:1800	85.787	85.800	84.048	84.094	84.628	84.579*	86.843	86.919	85.919	86.003	86.299	86.394
157	82270:1815	85.777	85.797	84.058	84.087	84.658	84.585*	86.833	86.907	85.959	85.993	86.269	86.379
158	82270:1830	85.757	85.792	83.948	84.074*	84.558	84.586*	86.793	86.893	85.929	85.983	86.269	86.363
159	82270:1845	85.707	85.784*	83.978	84.058	84.578	84.587*	86.662	86.871*	85.798	85.966*	86.168	86.343
160	82270:1900	85.717	85.776	83.978	84.044	84.828	84.602*	86.783	86.853	85.909	85.953	86.229	86.324
161	82270:1915	85.757	85.770	83.948	84.030	85.038	84.638*	86.803	86.840	85.919	85.944	86.128	86.301
162	82270:1930	85.757	85.766	83.988	84.019	84.808	84.669	86.793	86.829	85.869	85.934	86.279	86.287
163	82270:1945	85.727	85.761	83.998	84.012	84.868	84.699	86.813	86.822	85.899	85.926	86.229	86.275
164	82270:2000	85.747	85.757	83.998	84.007	84.958	84.732	86.833	86.819	85.869	85.918	86.259	86.268
165	82270:2015	85.777	85.756*	84.028	84.006*	84.748	84.751	86.793	86.816	85.848	85.909	86.299	86.265*
166	82270:2030	85.707	85.753*	84.038	84.007*	84.898	84.771	86.763	86.810*	85.949	85.906*	86.269	86.264
167	82270:2045	85.727	85.749	84.068	84.011*	84.828	84.786	86.763	86.805	85.929	85.906	86.259	86.263
168	82270:2100	85.737	85.746	84.058	84.017	84.898	84.802	86.793	86.800	85.929	85.908*	86.259	86.262
169	82270:2115	85.687	85.741*	84.058	84.022	84.828	84.812	86.773	86.796	85.889	85.907*	86.269	86.262*
170	82270:2128	85.687	85.715	84.048	84.027	84.858	84.821	86.723	86.790*	85.879	85.905*	86.259	86.262*
171	82270:2115	85.657	85.726	84.038	84.031	84.838	84.827	86.763	86.784	85.899	85.904	86.118	86.253*
172	82270:2200	85.687	85.719	84.028	84.032	84.858	84.832	86.723	86.777	85.818	85.898*	86.229	86.246
173	82270:2215	85.687	85.713	84.018	84.032*	84.928	84.841*	86.733	86.770	85.859	85.892	86.178	86.238
174	82270:2230	85.717	85.710	84.028	84.032*	84.908	84.850	86.723	86.764	85.859	85.886	86.199	86.231
175	82270:2245	85.687	85.706	84.018	84.031*	84.898	84.858	86.682	86.755	85.838	85.880	86.188	86.225
176	82270:2300	85.717	85.705*	83.978	84.027*	84.988	84.871*	86.702	86.746	85.808	85.872	86.219	86.221
177	82270:2315	85.707	85.705	83.978	84.022	84.888	84.879	86.702	86.739	85.869	85.868	86.219	86.218
178	82270:2330	85.657	85.701*	83.998	84.017	84.838	84.881*	86.682	86.731	85.818	85.862	86.158	86.213*
179	82270:2345	85.687	85.699	84.008	84.014	84.748	84.874*	86.682	86.724	85.808	85.855	85.998	86.197*
180	82271: 0	85.627	85.693*	83.988	84.011	84.798	84.866	86.702	86.718	85.798	85.848	86.038	86.178
181	82271: 15	85.677	85.688	83.988	84.008	84.778	84.856	86.642	86.711	85.818	85.842	86.158	86.166
182	82271: 30	85.647	85.683	84.978	84.004	84.758	84.845	86.602	86.699	85.788	85.836	86.098	86.155
183	82271: 45	85.657	85.679	84.028	84.003*	84.668	84.828*	86.642	86.690	85.758	85.827	86.158	86.149
184	82271: 100	85.647	85.674	83.948	84.003	84.818	84.820	86.692	86.684	85.838	85.823	86.088	86.142
185	82271: 115	85.647	85.670	83.988	84.001*	84.878	84.820*	86.652	86.679	85.748	85.816*	86.158	86.139
186	82271: 130	85.627	85.665	83.988	84.000	84.688	84.811*	86.612	86.672	85.708	85.805*	86.088	86.134*

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 3.00, MAX TOLERANCE IS 3.00

BANK-POINTS:		401		402		403		404		405		406	
NOG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	82270:1600	87.111	87.068	86.007	86.018	86.304	86.341	85.846	85.904	85.541	85.615	84.438	84.810
149	82270:1615	87.021	87.060	85.901	86.005	86.224	86.329	85.846	85.893	85.581	85.606	84.338	84.742
150	82270:1630	87.011	87.053	85.947	85.994	86.234	86.316	85.896	85.887	85.561	85.599	84.938	84.715
151	82270:1645	86.881	87.038*	85.857	85.979	86.194	86.301	85.886	85.884	85.541	85.591	82.818	84.582*
152	82270:1700	86.931	87.023	85.441	85.969	86.224	86.287	85.836	85.879	85.501	85.581	84.558	84.506
153	82270:1715	86.991	87.013	85.791	85.952*	86.164	86.272	85.846	85.875	85.511	85.571	84.468	84.460
154	82270:1730	86.941	87.003	85.887	85.939	86.134	86.255	85.806	85.858	85.511	85.561	84.318	84.426
155	82270:1745	86.841	86.987*	85.767	85.927	86.154	86.239	85.756	85.857*	85.411	85.541	83.158	84.327*
156	82270:1800	86.851	86.969	85.827	85.914	86.164	86.225	85.776	85.845	85.491	85.535	82.918	84.184
157	82270:1815	86.871	86.953	85.837	85.902	86.194	86.216	85.796	85.836	85.451	85.523	83.018	84.030
158	82270:1830	86.861	86.939	85.807	85.889	86.124	86.204	85.706	85.823	85.411	85.509	83.078	83.884
159	82270:1845	86.861	86.925	85.837	85.866*	86.013	86.186*	85.666	85.805	85.331	85.490	83.238	83.762
160	82270:1900	86.861	86.914	85.757	85.846	86.124	86.172	85.656	85.786	85.301	85.468	83.128	83.653
161	82270:1915	86.851	86.904	85.777	85.831	86.204	86.166	85.716	85.771	85.401	85.451	83.198	83.564
162	82270:1930	86.771	86.890	85.737	85.816	86.093	86.158	85.686	85.757	85.421	85.440	83.248	83.494
163	82270:1945	86.981	86.887*	85.837	85.809	86.134	86.152	85.716	85.747	85.401	85.431	82.898	83.417
164	82270:2000	86.831	86.883*	85.787	85.804	86.134	86.148	85.716	85.739	85.401	85.424	82.698	83.329
165	82270:2015	86.871	86.879	85.797	85.800	86.083	86.141	85.696	85.732	85.331	85.415	82.668	83.238
166	82270:2030	86.661	86.864*	85.727	85.794*	86.063	86.133	85.686	85.725	85.361	85.406	82.358	83.132
167	82270:2045	86.711	86.845	85.637	85.780*	86.013	86.120	85.686	85.719	85.391	85.400	83.408	83.090
168	82270:2100	86.691	86.826	85.727	85.769	86.043	86.109	85.716	85.715	85.331	85.392	82.418	83.024*
169	82270:2115	86.761	86.810	85.807	85.766*	86.053	86.099	85.656	85.709*	85.341	85.385	82.488	82.854
170	82270:2128	86.841	86.804	85.637	85.755*	85.983	86.086	85.706	85.706	85.351	85.378	81.888	82.847*
171	82270:2145	86.901	86.806*	85.617	85.741	86.013	86.074	85.656	85.701	85.371	85.374	85.028	82.924*
172	82270:2200	86.731	86.803*	85.687	85.729	85.993	86.062	85.676	85.693	85.331	85.369	85.038	83.099*
173	82270:2215	86.901	86.807*	85.687	85.720	86.013	86.053	85.566	85.681*	85.311	85.363	85.038	83.319
174	82270:2230	86.821	86.810	85.747	85.717	85.993	86.044	85.566	85.667	85.281	85.354	85.008	83.548
175	82270:2245	86.791	86.811*	85.717	85.715	86.023	86.037	85.586	85.654	85.311	85.347	84.988	83.767
176	82270:2300	86.831	86.813*	85.557	85.704*	85.993	86.031	85.616	85.644	85.321	85.341	85.018	83.978
177	82270:2315	86.781	86.811*	85.617	85.692	85.973	86.024	85.596	85.636	85.371	85.339*	85.008	84.147
178	82270:2330	86.691	86.803*	85.547	85.677	85.963	86.016	85.636	85.631	85.301	85.336*	82.888	84.188*
179	82270:2345	86.791	86.798	85.637	85.665	85.961	86.008	85.556	85.674*	85.301	85.337	83.038	84.110*
180	82271: 0	86.611	86.783*	85.637	85.657	85.983	86.002	85.566	85.616	85.271	85.326*	83.438	84.035
181	82271: 15	86.741	86.772	85.627	85.651	85.963	85.996	85.556	85.608	85.311	85.322	84.078	83.996
182	82271: 30	86.801	86.768	85.557	85.641	85.953	85.990	85.546	85.599	85.281	85.317	84.628	84.013*
183	82271: 45	86.731	86.763	85.617	85.634	85.983	85.987	85.566	85.592	85.271	85.311	84.618	84.061*
184	82271: 100	86.631	86.752*	85.557	85.626	85.983	85.984	85.586	85.588	85.231	85.303	83.458	84.050*
185	82271: 115	86.651	86.740	85.657	85.623*	85.953	85.981	85.556	85.584	85.161	85.289*	82.978	83.977*
186	82271: 130	86.621	86.726	85.587	85.619	85.923	85.976*	85.516	85.577*	85.231	85.278	82.938	83.871

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 3.00, MAX TOLERANCE IS 3.00

BANK-POINT(S):		407		408		409		410		501		502	
RDG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	82270:1600	85.210	85.284	31.149	30.905	32.420	32.852	30.507	30.399	35.873	36.018	28.153	28.572*
149	82270:1615	85.200	85.271	31.069	30.936	34.575	32.908*	30.526	30.418	37.431	36.097*	27.894	28.539*
150	82270:1630	85.190	85.259	31.259	30.973	32.220	32.896*	30.327	30.423*	35.853	36.127*	28.113	28.493
151	82270:1645	85.160	85.246	31.389	31.021	31.512	32.803*	30.431	30.426	34.685	36.053*	27.884	28.429
152	82270:1700	85.180	85.234	30.808	31.034*	33.996	32.825*	30.251	30.417*	35.514	35.978	27.784	28.353
153	82270:1715	85.170	85.224	30.227	30.991*	36.321	33.056*	29.957	30.383*	37.780	36.048*	27.864	28.280
154	82270:1730	85.140	85.213	30.127	30.913*	32.759	33.168	29.881	30.333	35.594	36.059*	28.093	28.227
155	82270:1745	85.100	85.199	30.468	30.841	31.831	33.147*	30.241	30.294	34.406	35.962*	28.342	28.204
156	82270:1800	85.100	85.186	30.888	30.803	31.831	33.053*	30.602	30.298*	34.935	35.844	29.349	28.263*
157	82270:1815	85.090	85.172	31.609	30.833*	33.069	33.001	30.270	30.297*	37.800	35.899*	29.518	28.375*
158	82270:1830	85.050	85.157	31.119	30.867	32.131	32.917*	30.412	30.303*	36.792	35.986*	29.409	28.502
159	82270:1845	84.910	85.133*	30.798	30.882	31.821	32.802	30.517	30.320*	35.893	36.029	28.412	28.568
160	82270:1900	85.030	85.113	31.008	30.899	32.590	32.724	30.659	30.350*	36.452	36.010	28.213	28.583*
161	82270:1915	85.060	85.098	30.988	30.913	35.014	32.823*	30.612	30.384	37.900	36.222*	27.814	28.543*
162	82270:1930	85.040	85.086	31.329	30.948*	32.760	32.843*	30.479	30.409	36.033	36.295*	28.303	28.506
163	82270:1945	85.030	85.076	31.329	30.991	31.552	32.774*	30.488	30.428	34.685	36.223*	27.864	28.445*
164	82270:2000	85.040	85.068	30.848	31.006*	33.917	32.807*	30.241	30.427*	35.564	36.152*	27.944	28.379
165	82270:2015	85.020	85.061	30.227	30.966*	36.272	33.042*	30.004	30.400*	37.670	36.204*	28.034	28.321
166	82270:2030	85.000	85.053	30.017	30.884*	32.719	33.154	29.900	30.353*	35.883	36.213*	28.253	28.283
167	82270:2045	85.010	85.045	30.408	30.906	31.831	33.134*	30.146	30.314	34.506	36.112*	28.412	28.271*
168	82270:2100	85.000	85.038	30.918	30.773	31.891	33.045*	30.640	30.313*	34.995	35.985	29.439	28.336*
169	82270:2115	84.980	85.031	31.529	30.800*	33.537	33.026*	30.764	30.340*	38.309	36.058*	29.767	28.463*
170	82270:2128	84.960	85.022	31.149	30.840	32.220	32.965*	30.346	30.356	35.803	36.084*	28.990	28.567
171	82270:2145	85.000	85.016	30.928	30.868	31.781	32.857*	30.374	30.366	34.575	36.004*	28.552	28.624
172	82270:2200	85.010	85.012	31.079	30.847	32.220	32.756	30.469	30.378	35.634	35.936	28.083	28.623*
173	82270:2215	85.010	85.010	31.079	30.925	34.475	32.807*	30.469	30.390	37.291	35.982*	27.844	28.574*
174	82270:2230	84.980	85.007	31.349	30.967*	32.131	32.793*	30.327	30.393*	35.644	35.990*	28.143	28.519
175	82270:2245	84.970	85.002	31.139	31.001	31.422	32.700*	30.117	30.379*	34.765	35.918*	27.838	28.445
176	82270:2300	84.980	84.999	30.688	31.001*	33.887	32.721*	30.146	30.357*	35.444	35.847*	27.515	28.347
177	82270:2315	84.980	84.995	30.137	30.947*	36.232	32.953*	29.966	30.319*	37.630	35.919*	27.555	28.242
178	82270:2330	84.930	84.989*	29.977	30.856*	32.669	33.065	29.729	30.262*	35.833	35.954*	27.954	28.165
179	82270:2345	84.920	84.982	30.397	30.776	31.742	33.046*	30.033	30.215	34.416	35.878*	28.153	28.121
180	82271: 0	84.940	84.975	30.878	30.737	31.831	32.959*	30.507	30.207*	34.695	35.781*	29.090	28.157*
181	82271: 15	84.920	84.967	31.629	30.771*	33.627	32.952*	30.659	30.231*	38.399	35.860*	29.439	28.253*
182	82271: 30	84.930	84.961	31.169	30.815	32.390	32.913*	30.346	30.251	36.392	35.949	29.299	28.379
183	82271: 45	84.910	84.954	31.049	30.855	31.801	32.822*	30.279	30.264	35.005	35.940*	28.512	28.255
184	82271: 100	84.900	84.947	31.660	30.927*	31.532	32.689	30.260	30.272	35.853	35.930	28.024	28.472*
185	82271: 115	84.890	84.939	31.249	30.988	33.138	32.643*	30.412	30.285*	37.361	36.013*	27.794	28.438*
186	82271: 130	84.870	84.931	31.254	31.039	32.081	32.542	30.089	30.290*	35.653	36.050	28.133	28.400

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 4.00, MAX TOLERANCE IS 4.00

BANK-POINTS:		503		504		505		506		507		508	
RDG	TIME	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG	CAL. RDG	EXP. RDG
148	82270:1600	35.675	34.277*	28.951	28.926*	29.977	30.590	28.322	28.210*	32.140	32.576*	27.652	27.612
149	82270:1615	34.325	34.486*	27.390	26.955*	33.266	30.669*	28.921	28.254*	32.768	32.572*	27.602	27.615
150	82270:1630	34.101	34.580	27.050	26.978	29.011	30.610*	28.102	28.264*	33.018	32.598*	27.602	27.616*
151	82270:1645	30.427	34.373*	29.781	26.979*	28.104	30.420*	27.502	28.230*	32.389	32.599*	27.612	27.616*
152	82270:1700	35.904	34.352*	27.050	26.983*	31.253	30.365*	27.882	28.186	31.860	32.554*	27.632	27.617*
153	82270:1715	38.743	34.615*	27.250	27.003*	34.741	30.608*	28.322	28.170*	32.738	32.540*	27.622	27.618
154	82270:1730	32.528	34.633*	26.751	26.998*	29.250	30.660*	28.072	28.154	33.038	32.563*	27.622	27.619
155	82270:1745	30.148	34.362*	26.472	26.962*	27.935	30.518*	27.482	28.104*	32.788	32.590	27.642	27.621*
156	82270:1800	34.709	34.732	26.611	26.920	32.239	30.546*	28.352	28.091*	32.299	32.587*	27.632	27.623
157	82270:1815	37.717	34.376*	26.990	26.901	34.741	30.824*	29.201	28.153*	32.639	32.589*	27.622	27.624
158	82270:1830	33.026	34.373*	27.260	26.913*	28.811	30.855*	28.312	28.198	32.698	32.597*	27.642	27.625*
159	82270:1845	31.104	34.167*	26.681	26.905*	27.506	30.663*	27.452	28.176*	32.429	32.590*	27.582	27.624*
160	82270:1900	36.243	34.181*	27.000	26.906*	30.266	30.530	28.102	28.160	32.100	32.556*	27.662	27.625*
161	82270:1915	38.554	34.462*	27.350	26.935*	34.043	30.675*	28.951	28.200*	37.848	32.555*	27.622	27.626
162	82270:1930	33.085	34.534*	27.040	26.961	29.349	30.673*	28.032	28.212*	32.998	32.582*	27.622	27.626*
163	82270:1945	30.098	34.297*	26.581	26.951*	28.084	30.511*	27.462	28.172*	32.349	32.583*	27.652	27.628*
164	82270:2000	35.745	34.254*	26.990	26.949*	31.352	30.472*	27.902	28.132	31.790	32.534*	27.662	27.631*
165	82270:2015	38.474	34.494*	27.250	26.966*	34.681	30.713*	28.292	28.120*	32.678	32.515	27.662	27.635
166	82270:2030	37.946	34.535*	26.641	26.959*	29.080	30.747*	28.032	28.108	33.018	32.536*	27.662	27.638
167	82270:2045	30.347	34.246*	26.322	26.915*	27.905	30.588*	27.392	28.056*	32.629	32.554*	27.682	27.643
168	82270:2100	34.868	34.147	26.502	26.864	32.080	30.592*	28.352	28.045*	32.279	32.547*	27.682	27.648
169	82270:2115	37.966	34.377*	26.921	26.839	34.940	30.866*	29.081	28.104*	32.619	32.547*	27.672	27.653
170	82270:2128	32.637	34.370*	27.240	26.850*	28.652	30.882*	28.302	28.150	32.639	32.553*	27.682	27.657
171	82270:2145	29.986	34.092*	26.671	26.845*	27.586	30.684*	27.472	28.133*	32.549	32.556*	27.722	27.664*
172	82270:2200	35.366	34.015*	26.791	26.839	30.107	30.537	27.882	28.108	32.200	32.538*	27.692	27.669
173	82270:2215	37.926	34.216*	27.250	26.861*	33.325	30.629*	28.721	28.132*	32.669	32.532*	27.652	27.671*
174	82270:2230	33.872	34.308	27.060	26.886	28.851	30.564*	27.932	28.133*	32.868	32.551*	27.642	27.670*
175	82270:2245	30.576	34.126*	26.721	26.890*	27.964	30.373*	27.422	28.089*	32.140	32.536*	27.662	27.669
176	82270:2300	35.705	34.123*	27.000	26.899*	31.193	30.314*	27.732	28.042	31.611	32.470*	27.672	27.669*
177	82270:2315	38.524	34.396*	27.230	26.925*	34.452	30.539*	28.172	28.024	32.499	32.435	27.672	27.669
178	82270:2330	32.846	34.453*	26.661	26.923*	29.190	30.582*	28.052	28.015	33.008	32.451*	27.682	27.670*
179	82270:2345	30.048	34.209*	26.382	26.888*	27.785	30.431*	27.432	27.974*	32.639	32.471*	27.692	27.672*
180	82271:0	34.719	34.104	26.522	26.845	32.060	30.448*	28.362	27.975*	32.389	32.478*	27.682	27.674
181	82271:15	37.926	34.284*	26.901	26.825	35.030	30.743*	29.061	28.044*	32.559	32.486	27.672	27.674
182	82271:30	32.458	34.271*	27.190	26.836*	28.762	30.786*	28.282	28.097	32.644	32.501*	27.642	27.676*
183	82271:45	30.038	33.999*	26.681	26.833*	27.556	30.608*	27.422	28.085*	32.359	32.501*	27.712	27.679*
184	82271:100	35.237	33.924*	26.701	26.823*	30.077	30.475	27.972	28.071	32.070	32.474*	27.682	27.681
185	82271:115	38.056	34.139*	27.240	26.843*	33.535	30.591*	28.871	28.113*	32.728	32.474*	27.652	27.680*
186	82271:130	33.962	34.250	26.961	26.862	28.951	30.554*	27.422	28.125*	32.988	32.507*	27.642	27.678*

INSTRUMENT HISTORIES: TREND TEST, COMPARE TEST

MAX STD DEV IS 1.00, MAX TOLERANCE IS 1.00

BANK-POINTS:		509		510		601		602		701		702	
RDG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	82270:1600	26.666	26.654	26.074	26.058*	26.111	26.070	26.668	26.660	29.288	29.292	29.268	29.272
149	82270:1615	26.666	26.656	26.064	26.059	26.051	26.075	26.698	26.666	29.289	29.291	29.266	29.271
150	82270:1630	26.666	26.658	26.104	26.063*	25.982	26.073*	26.678	26.670	29.282	29.290*	29.257	29.269
151	82270:1645	26.680	26.661*	26.094	26.067	26.301	26.085*	27.064	26.697*	29.282	29.289	29.259	29.268
152	82270:1700	26.666	26.663	26.074	26.069	25.972	26.085	26.718	26.713	29.284	29.288	29.259	29.267
153	82270:1715	26.590	26.660*	26.054	26.070*	26.121	26.087*	26.728	26.724	29.285	29.288	29.261	29.265
154	82270:1730	26.686	26.660*	26.054	26.069*	26.301	26.102*	26.777	26.733	29.277	29.287	29.256	29.264
155	82270:1745	26.646	26.659*	26.044	26.067*	26.520	26.136*	26.965	26.752*	29.275	29.285	29.253	29.263
156	82270:1800	26.636	26.657*	25.965	26.060*	26.111	26.154	26.678	26.759*	29.277	29.284	29.253	29.261
157	82270:1815	26.686	26.658*	26.005	26.052	26.301	26.173	27.074	26.782*	29.278	29.283	29.253	29.260
158	82270:1830	26.676	26.659*	26.074	26.049	26.361	26.196	27.025	26.810	29.270	29.282	29.252	29.259
159	82270:1845	26.556	26.654*	25.975	26.042*	26.241	26.211	26.916	26.833	29.269	29.280	29.244	29.257
160	82270:1900	26.666	26.651	26.064	26.041*	26.351	26.229	26.965	26.854	29.270	29.278	29.251	29.256
161	82270:1915	26.666	26.651*	26.064	26.041*	26.241	26.239	26.985	26.874	29.271	29.277	29.252	29.255
162	82270:1930	26.666	26.652*	26.114	26.046*	26.211	26.243	26.995	26.893	29.266	29.276	29.246	29.254
163	82270:1945	26.716	26.656*	26.104	26.052	26.221	26.244*	27.055	26.913	29.262	29.274	29.239	29.252
164	82270:2000	26.716	26.662	26.084	26.058	26.341	26.251*	27.114	26.938	29.265	29.273	29.239	29.251
165	82270:2015	26.666	26.666	26.054	26.060	26.530	26.272*	27.173	26.966	29.266	29.271	29.243	29.249
166	82270:2030	26.706	26.671	26.064	26.062	26.710	26.311*	27.243	26.999	29.262	29.270	29.235	29.247
167	82270:2045	26.676	26.674	26.064	26.064	26.610	26.352	27.233	27.032	29.258	29.269	29.233	29.246
168	82270:2100	26.656	26.674*	26.044	26.063*	26.451	26.381	27.193	27.061	29.264	29.267	29.239	29.244
169	82270:2115	26.696	26.676*	26.024	26.060*	26.381	26.398	27.223	27.088	29.256	29.266	29.235	29.243
170	82270:2128	26.696	26.678	26.074	26.060*	25.942	26.378*	26.500	27.066*	29.254	29.265	29.231	29.241
171	82270:2145	26.696	26.681	26.074	26.060*	25.902	26.338*	26.490	27.017*	29.252	29.263	29.228	29.240
172	82270:2200	26.696	26.683	26.064	26.061	25.832	26.283	26.470	26.956	29.255	29.262	29.226	29.238
173	82270:2215	26.676	26.684	26.064	26.061	25.732	26.218	26.480	26.892	29.254	29.260	29.232	29.236
174	82270:2230	26.676	26.684	26.104	26.064*	25.712	26.150	26.480	26.830	29.252	29.259	29.222	29.235
175	82270:2245	26.706	26.685*	26.074	26.067	25.672	26.082	26.500	26.774	29.246	29.258	29.224	29.233
176	82270:2300	26.736	26.689*	26.064	26.068	25.702	26.019	26.539	26.728	29.251	29.256	29.226	29.232
177	82270:2315	26.696	26.672	26.034	26.066*	25.922	25.978	26.599	26.695	29.250	29.255	29.228	29.231
178	82270:2330	26.696	26.694	26.044	26.064*	26.500	25.988*	27.025	26.696*	29.244	29.254	29.222	29.230
179	82270:2345	26.646	26.692*	26.044	26.062	26.520	26.027*	27.055	26.719*	29.241	29.252	29.217	29.228
180	82271: 0	26.656	26.688*	26.034	26.059	26.351	26.069	26.985	26.749	29.245	29.251	29.222	29.227
181	82271: 15	26.696	26.687	25.995	26.053*	25.972	26.086	26.738	26.765	29.245	29.250	29.221	29.226
182	82271: 30	26.686	26.686	26.054	26.050	25.952	26.088*	26.619	26.765*	29.237	29.248	29.217	29.225
183	82271: 45	26.686	26.686	26.074	26.050*	25.942	26.079*	26.609	26.755*	29.234	29.247	29.211	29.223
184	82271: 100	26.676	26.685*	26.044	26.049*	26.221	26.084*	26.896	26.758*	29.236	29.245	29.215	29.222
185	82271: 115	26.666	26.683*	26.044	26.049	26.181	26.092*	26.985	26.774*	29.238	29.244	29.217	29.221
186	82271: 130	26.656	26.681*	26.074	26.050*	26.161	26.101	26.955	26.795	29.232	29.242	29.209	29.220

INSTRUMENT HISTORIES: TREND TEST, COMPAR TEST

MAX STD DEV IS 1.00, MAX TOLERANCE IS 1.00

BANK-POINTS:		703		704		705		706	
RDG	TIME	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG	CAL RDG	EXP RDG
148	8227011600	29.274	29.278	-1.610	-1.671	41.070	41.169	48.410	48.320*
149	8227011615	29.275	29.277	-1.580	-1.658	40.990	41.141	48.380	48.328
150	8227011630	29.268	29.276	-1.470	-1.639	40.750	41.101	48.470	48.342*
151	8227011645	29.268	29.275	-1.460	-1.617	41.170	41.083	48.180	48.339*
152	8227011700	29.272	29.275	-1.470	-1.596	41.140	41.076*	48.410	48.342*
153	8227011715	29.270	29.274	-1.520	-1.579	41.090	41.073	48.470	48.352*
154	8227011730	29.264	29.273	-1.490	-1.564	41.180	41.078*	48.680	48.378*
155	8227011745	29.260	29.271	-1.460	-1.549	41.040	41.079*	48.370	48.392*
156	8227011800	29.263	29.270	-1.450	-1.534	40.980	41.073*	48.680	48.418*
157	8227011815	29.263	29.269	-1.490	-1.523	41.180	41.076*	48.640	48.446
158	8227011840	29.257	29.268	-1.380	-1.508	40.860	41.064*	48.680	48.477
159	8227011845	29.254	29.266	-1.440	-1.495	40.610	41.010*	48.530	48.498
160	8227011900	29.255	29.264	-1.440	-1.485	40.930	41.004	48.600	48.516
161	8227011915	29.256	29.263	-1.470	-1.478	40.940	40.985	48.640	48.533
162	8227011930	29.250	29.261	-1.360	-1.467*	40.540	40.947*	48.480	48.540
163	8227011945	29.249	29.260	-1.380	-1.455	40.910	40.923	48.410	48.537*
164	8227012000	29.254	29.258	-1.450	-1.448	40.850	40.905	48.440	48.529*
165	8227012015	29.254	29.257	-1.490	-1.447*	40.710	40.883	48.190	48.504*
166	8227012030	29.247	29.256	-1.460	-1.447*	40.740	40.861	48.140	48.466
167	8227012045	29.244	29.255	-1.450	-1.447*	40.730	40.841	48.230	48.431
168	8227012100	29.245	29.253	-1.470	-1.449*	40.770	40.825	48.270	48.401
169	8227012115	29.251	29.252	-1.440	-1.449*	40.660	40.806	48.380	48.382
170	8227012128	29.242	29.251	-1.460	-1.450*	40.710	40.789	48.370	48.372
171	8227012145	29.235	29.249	-1.430	-1.449*	40.710	40.756*	48.210	48.356*
172	8227012200	29.243	29.248	-1.410	-1.446*	40.710	40.727	48.390	48.349
173	8227012215	29.241	29.247	-1.450	-1.445	40.810	40.720*	48.530	48.357*
174	8227012230	29.236	29.246	-1.550	-1.438*	40.870	40.725*	48.870	48.393*
175	8227012245	29.233	29.244	-1.340	-1.428	40.650	40.723*	48.750	48.416
176	8227012300	29.236	29.243	-1.390	-1.420	40.770	40.725*	48.630	48.472
177	8227012315	29.240	29.242	-1.450	-1.418*	40.820	40.732*	48.800	48.513
178	8227012330	29.230	29.240	-1.390	-1.414	42.440	40.843*	46.690	48.422*
179	8227012345	29.228	29.239	-1.350	-1.409*	42.400	41.002	46.300	48.242*
180	8227012350	29.232	29.238	-1.420	-1.406	42.360	41.177	46.570	48.036*
181	8227012400	29.232	29.237	-1.410	-1.405	42.490	41.357	46.510	47.825
182	8227012415	29.225	29.235	-1.420	-1.405*	42.420	41.525	46.360	47.615
183	8227012430	29.222	29.234	-1.370	-1.403*	42.530	41.682	46.370	47.419
184	8227012445	29.224	29.232	-1.350	-1.399*	42.540	41.824	46.510	47.251
185	8227012455	29.225	29.231	-1.390	-1.396	42.600	41.953	46.720	47.099
186	8227012500	29.220	29.230	-1.280	-1.387*	42.510	42.060	46.720	46.990

LEAK RATE INITIALIZATION

LOWER-CONTAINMENT

29 INSTRUMENT POINTS, 29.7% BLDG VOLUME

BAK-PT	VOL	TRP	A(X**2)	B(X)	C
101	0.0417	2	0.2800E-04	0.99516	0.06624
102	0.0566	2	0.3610E-04	0.99450	0.06414
103	0.0566	2	0.3030E-04	0.99509	0.06597
104	0.0566	2	0.3610E-04	0.99451	0.12874
105	0.0566	2	0.2840E-04	0.99579	0.15540
106	0.0297	2	0.1840E-04	0.99777	-0.02746
107	0.0297	2	0.7140E-04	0.98800	0.32075
108	0.0297	2	0.1810E-04	0.99736	-0.02379
109	0.0297	2	0.2590E-04	0.99624	0.03263
110	0.0378	2	0.2000E-04	1.00042	-0.08368
201	0.0378	2	0.4590E-04	0.99634	0.08019
202	0.0478	2	0.9640E-04	0.98331	0.58374
203	0.0378	2	0.3480E-04	0.99687	0.00462
204	0.0377	2	0.3090E-04	0.99529	0.04925
205	0.0566	2	0.2000E-04	0.99686	0.04937
206	0.0566	2	-0.8260E-04	1.01212	-0.33344
207	0.0377	2	-0.1000E-04	1.01519	-0.45387
208	0.0117	2	0.2350E-04	0.99699	-0.03754
209	0.0094	2	0.2050E-04	0.99665	0.03625
210	0.0112	2	0.2850E-04	0.99600	0.09880
301	0.0112	2	0.3610E-04	0.99451	0.12879
302	0.0345	2	0.3700E-04	0.99596	0.06138
303	0.0438	2	-0.6920E-04	1.01179	-0.38682
304	0.0477	2	0.2300E-04	0.99616	0.06947
305	0.0321	2	-0.4120E-04	1.00628	-0.16860
306	0.0406	2	0.3140E-04	0.99612	0.04194
307	0.0406	2	0.4160E-04	0.99436	0.26749
703	1.0000	4	0.0000E+00	1.00000	0.00000
706	1.0000	3	0.0000E+00	1.00000	0.00000

UPPER-CONTAINMENT

12 INSTRUMENT POINTS, 51.1% BLDG VOLUME

BAK-PT	VOL	TRP	A(X**2)	B(X)	C
308	0.0763	2	0.9890E-04	0.98609	0.28422
309	0.0763	2	0.3400E-04	0.99463	0.13173
310	0.0763	2	0.2990E-04	0.99829	0.02397
401	0.0763	2	0.2310E-04	0.99636	0.03282
402	0.0847	2	0.3050E-04	0.99467	0.11932
403	0.0847	2	0.3220E-04	0.99738	0.05097
404	0.1356	2	0.4140E-04	0.99394	0.23134
405	0.1456	2	-0.9520E-04	1.01553	-0.56081
406	0.1271	2	0.2550E-04	0.99566	0.04295
407	0.1271	2	0.2050E-04	0.99665	0.01632
702	1.0000	4	0.0000E+00	1.00000	0.00000
705	1.0000	3	0.0000E+00	1.00000	0.00000

ICE-CONDENSER

17 INSTRUMENT POINTS, 16.2% BLDG VOLUME

BAK-PT	VOL	TRP	A(X**2)	B(X)	C
408	0.0557	2	-0.5780E-04	1.00519	0.01355
409	0.0557	2	0.2600E-04	0.99603	0.15122

	LEAF	RATE	INITIALIZATION		
410	0.0557	2	0.5562e-03	0.41611	2.22892
501	0.0557	2	0.2060e-04	0.99686	0.10917
502	0.0557	2	0.3330e-04	0.99459	0.21858
503	0.0557	2	0.3810e-04	0.99330	0.15242
504	0.0557	2	0.2860e-04	0.99621	0.10199
505	0.0557	2	0.2770e-04	0.99475	0.14945
506	0.0557	2	0.3230e-04	0.99759	0.19380
507	0.0557	2	0.2310e-04	0.99637	0.09259
508	0.0886	2	0.2550e-04	0.99566	0.08279
509	0.0886	2	0.2370e-04	0.99741	0.02860
510	0.0886	2	0.2570e-04	0.99608	0.04924
601	0.0886	2	0.2880e-04	0.99641	0.00555
602	0.0886	2	0.8980e-04	0.98576	0.33400
701	1.0000	4	0.0000e+00	1.00000	0.00000
704	1.0000	3	0.0000e+00	1.00000	0.00000

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
148 READING AT 82270:1600										
BANK 1	76.330	82.561	82.560	82.582	82.512	84.136	85.287	81.711	85.244	93.547
BANK 2	93.770	91.914	92.071	84.282	83.341	83.952	83.065	85.327	84.690	86.006
BANK 3	84.413	82.099	85.375	83.209	85.797	84.118	84.498	86.983	85.999	86.399
BANK 4	87.111	86.007	86.304	85.846	85.541	84.438	85.210	31.149	32.420	30.507
BANK 5	35.873	26.153	35.675	26.951	29.977	28.322	32.140	27.652	26.666	26.074
BANK 6	26.111	26.666	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.288	29.264	29.274	-1.610	41.070	44.410	0.000	0.000	0.000	0.000
149 READING AT 82270:1615										
BANK 1	76.310	82.491	82.590	82.612	82.512	84.136	85.387	81.701	85.234	93.537
BANK 2	93.780	91.864	92.061	84.222	83.331	83.902	83.154	85.387	84.680	85.996
BANK 3	84.423	82.069	85.375	83.239	85.797	84.118	84.498	86.893	86.009	86.439
BANK 4	87.021	85.907	86.224	85.846	85.581	84.338	85.200	31.069	34.575	30.526
BANK 5	35.431	27.894	38.325	27.390	33.266	28.921	32.768	27.602	26.666	26.064
BANK 6	26.051	26.698	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.289	29.266	29.275	-1.580	40.990	44.380	0.000	0.000	0.000	0.000
150 READING AT 82270:1630										
BANK 1	76.290	82.461	82.580	82.592	82.492	84.066	84.947	81.711	85.224	93.497
BANK 2	93.740	91.844	92.061	84.232	83.311	83.942	83.135	85.357	84.680	86.016
BANK 3	84.403	82.099	85.265	83.259	85.777	84.098	84.688	86.923	85.969	86.399
BANK 4	87.011	85.947	86.234	85.896	85.561	84.938	85.190	31.259	32.220	30.327
BANK 5	35.853	26.113	34.101	27.050	29.011	28.102	31.018	27.602	26.666	26.104
BANK 6	25.982	26.678	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.282	29.257	29.268	-1.470	40.750	44.470	0.000	0.000	0.000	0.000
151 READING AT 82270:1645										
BANK 1	76.300	82.521	82.550	82.592	82.502	84.116	85.917	81.691	85.234	93.467
BANK 2	93.740	91.854	92.041	84.222	83.341	83.992	83.204	85.357	84.670	86.016
BANK 3	84.413	82.089	85.915	83.299	85.817	84.058	84.598	86.933	85.979	86.409
BANK 4	86.881	85.857	86.194	85.886	85.541	82.818	85.160	31.389	31.512	30.431
BANK 5	34.685	27.884	30.427	26.781	28.104	27.502	32.389	27.612	26.686	26.094
BANK 6	26.303	27.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.282	29.254	29.268	-1.460	41.170	44.180	0.000	0.000	0.000	0.000
152 READING AT 82270:1700										
BANK 1	76.260	82.491	82.570	82.592	82.492	84.116	85.287	81.691	85.224	93.437
BANK 2	93.730	91.804	92.031	84.232	83.311	84.892	81.125	85.347	84.670	86.066
BANK 3	84.413	82.079	85.285	83.309	85.787	84.098	84.578	86.903	86.039	86.399
BANK 4	86.931	85.947	86.224	85.836	85.511	84.558	85.180	30.808	31.996	30.251
BANK 5	35.514	27.784	35.904	27.050	31.253	27.882	31.860	27.632	26.666	26.074
BANK 6	25.972	26.718	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.284	29.259	29.272	-1.470	41.140	44.410	0.000	0.000	0.000	0.000
153 READING AT 82270:1715										
BANK 1	76.260	82.491	82.540	82.572	82.472	84.106	85.247	81.681	85.214	93.407
BANK 2	93.720	91.844	92.001	84.242	83.301	83.902	83.125	85.377	84.660	85.986
BANK 3	84.403	82.109	85.315	83.379	85.787	84.058	84.558	86.893	86.009	86.379
BANK 4	86.991	85.797	86.164	85.846	85.511	84.468	85.170	30.227	36.321	29.957
BANK 5	37.780	27.864	38.743	27.250	34.741	28.322	32.738	27.622	26.596	26.054
BANK 6	26.121	26.728	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.285	29.261	29.270	-1.520	41.090	44.470	0.000	0.000	0.000	0.000

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
154 READING AT 8227011730										
BANK 1	76.280	82.541	82.540	82.592	82.462	84.096	85.287	81.671	85.204	93.377
BANK 2	91.709	91.814	91.991	84.182	81.281	83.882	83.135	85.337	84.650	86.026
BANK 3	84.382	82.109	85.365	81.379	85.807	84.058	84.658	86.863	85.919	86.339
BANK 4	86.941	85.887	86.134	85.806	85.511	84.318	85.140	30.127	32.759	29.881
BANK 5	35.594	28.193	32.528	26.751	29.250	28.072	33.038	27.622	26.686	26.054
BANK 6	26.301	26.777	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.277	29.256	29.264	-1.490	11.180	48.680	0.000	0.000	0.000	0.000
155 READING AT 8227011745										
BANK 1	76.270	82.481	82.510	82.552	82.452	84.096	85.697	81.631	85.154	93.337
BANK 2	93.679	91.804	91.971	84.192	83.311	83.862	83.154	85.347	84.630	86.026
BANK 3	84.393	82.089	85.535	83.349	85.767	84.038	84.488	86.863	85.939	86.349
BANK 4	86.841	85.867	86.154	85.756	85.411	83.158	85.100	30.468	31.831	30.241
BANK 5	34.406	28.342	30.148	26.472	27.935	27.482	32.788	27.642	26.646	26.044
BANK 6	26.520	26.765	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.275	29.253	29.260	-1.460	41.040	48.370	0.000	0.000	0.000	0.000
156 READING AT 8227011800										
BANK 1	76.250	82.461	82.510	82.512	82.452	84.096	85.897	81.661	85.184	93.317
BANK 2	93.679	91.764	91.941	84.182	83.311	83.882	83.125	85.307	84.630	85.996
BANK 3	84.372	82.092	85.815	83.349	85.787	84.048	84.628	86.843	85.919	86.299
BANK 4	86.851	85.827	86.164	85.776	85.491	82.918	85.100	30.888	31.831	30.602
BANK 5	34.935	29.349	34.709	26.611	32.239	28.352	32.299	27.632	26.636	25.965
BANK 6	26.111	26.678	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.277	29.253	29.263	-1.450	40.980	48.680	0.000	0.000	0.000	0.000
157 READING AT 8227011815										
BANK 1	76.290	82.451	82.500	82.532	82.442	84.086	85.807	81.651	85.174	93.277
BANK 2	93.649	91.794	91.931	84.182	83.241	83.882	83.005	85.277	84.620	85.986
BANK 3	84.362	82.099	85.715	81.334	85.777	84.058	84.658	86.833	85.959	86.269
BANK 4	86.871	85.837	86.194	85.796	85.451	83.018	85.090	31.609	33.069	30.270
BANK 5	37.800	29.518	37.717	26.990	34.741	29.201	32.639	27.622	26.686	26.005
BANK 6	26.301	27.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.278	29.253	29.263	-1.490	41.180	48.640	0.000	0.000	0.000	0.000
158 READING AT 8227011830										
BANK 1	76.250	82.451	82.500	82.532	82.432	84.056	85.767	81.641	85.154	93.247
BANK 2	93.629	91.734	91.911	84.152	83.201	83.852	83.035	85.317	84.600	86.016
BANK 3	84.352	82.059	85.665	83.349	85.757	84.048	84.558	86.793	85.929	86.269
BANK 4	86.861	85.807	86.124	85.706	85.411	83.078	85.050	31.119	32.131	30.412
BANK 5	36.792	29.409	33.026	27.260	28.811	28.312	32.698	27.642	26.676	26.074
BANK 6	26.361	27.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.276	29.252	29.257	-1.380	40.860	48.680	0.000	0.000	0.000	0.000
159 READING AT 8227011845										
BANK 1	76.100	82.311	82.280	82.432	82.332	84.515	85.357	81.581	84.503	93.217
BANK 2	93.569	91.694	91.861	84.122	83.131	83.842	83.025	85.167	84.540	85.575
BANK 3	84.342	82.069	85.735	83.349	85.717	84.028	84.578	86.662	85.798	86.168
BANK 4	86.861	85.637	86.013	85.666	85.331	83.238	84.910	30.798	31.821	30.517
BANK 5	35.893	28.412	31.104	26.681	27.506	27.452	32.429	27.582	26.556	25.975
BANK 6	26.211	26.916	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.269	29.244	29.254	-1.440	40.610	48.530	0.000	0.000	0.000	0.000

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
160 READING AT 8227011900										
BANK 1	76.190	82.451	82.320	82.442	82.352	83.255	85.107	81.551	84.163	93.217
BANK 2	93.579	91.664	91.891	81.142	83.211	83.622	82.865	85.006	84.570	85.465
BANK 3	84.433	82.109	85.735	83.529	85.717	83.978	84.828	86.783	85.909	86.229
BANK 4	86.861	85.757	86.124	85.656	85.301	83.128	85.030	31.008	32.590	30.659
BANK 5	36.452	26.213	36.243	27.000	30.266	28.202	32.100	27.662	26.666	26.064
BANK 6	26.351	26.465	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.270	29.251	29.255	-1.440	40.930	48.600	0.000	0.000	0.000	0.000
161 READING AT 8227011915										
BANK 1	76.230	82.481	82.330	82.452	82.402	83.275	85.237	81.611	84.113	93.247
BANK 2	93.619	91.734	91.911	84.182	83.181	83.652	83.065	84.976	84.590	85.465
BANK 3	84.443	82.159	85.775	83.649	85.757	83.948	85.038	86.803	85.919	86.128
BANK 4	86.851	85.777	86.204	85.716	85.401	83.198	85.060	30.988	35.014	30.612
BANK 5	37.900	27.814	38.554	27.350	34.043	28.951	32.848	27.622	26.666	26.064
BANK 6	26.241	26.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.271	29.252	29.256	-1.470	40.940	48.640	0.000	0.000	0.000	0.000
162 READING AT 8227011930										
BANK 1	76.240	82.471	82.340	82.482	82.392	83.285	85.227	81.601	84.083	93.217
BANK 2	93.609	91.724	91.911	84.212	83.291	83.692	83.194	84.986	84.570	85.445
BANK 3	84.403	82.179	85.805	83.669	85.757	83.988	84.808	86.791	85.849	86.279
BANK 4	86.771	85.737	86.094	85.686	85.421	83.248	85.040	31.329	32.263	30.479
BANK 5	36.033	28.303	33.085	27.090	29.349	28.032	32.998	27.622	26.666	26.114
BANK 6	26.211	26.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.266	29.246	29.250	-1.360	40.540	48.480	0.000	0.000	0.000	0.000
163 READING AT 8227011945										
BANK 1	76.230	82.531	82.350	82.482	82.402	83.195	85.467	81.601	84.003	93.227
BANK 2	93.609	91.724	91.901	84.172	83.231	83.832	83.194	84.966	84.570	85.455
BANK 3	84.423	82.209	85.875	83.719	85.727	83.998	84.868	86.813	85.849	86.229
BANK 4	86.981	85.837	86.134	85.716	85.401	82.898	85.030	31.329	31.552	30.488
BANK 5	34.685	27.864	30.098	26.581	28.084	27.462	32.349	27.652	26.716	26.104
BANK 6	26.221	27.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.262	29.239	29.249	-1.380	40.910	48.430	0.000	0.000	0.000	0.000
164 READING AT 8227012000										
BANK 1	76.240	82.481	82.300	82.472	82.392	83.175	85.437	81.601	83.973	93.177
BANK 2	93.549	91.734	91.881	84.202	83.261	83.842	83.125	84.926	84.580	85.415
BANK 3	84.403	82.249	85.895	83.699	85.747	83.998	84.958	86.813	85.869	86.259
BANK 4	86.831	85.787	86.134	85.716	85.401	82.698	85.040	30.848	33.917	30.241
BANK 5	35.564	27.944	35.745	26.890	31.352	27.902	31.790	27.662	26.716	26.084
BANK 6	26.341	27.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.264	29.239	29.254	-1.450	40.850	48.440	0.000	0.000	0.000	0.000
165 READING AT 8227012015										
BANK 1	76.210	82.461	82.310	82.462	82.362	83.165	85.417	81.591	83.943	93.157
BANK 2	93.589	91.714	91.871	84.192	83.211	83.872	82.915	84.866	84.580	85.375
BANK 3	84.403	82.249	85.905	83.759	85.777	84.028	84.748	86.793	85.848	86.299
BANK 4	86.871	85.797	86.083	85.696	85.331	82.668	85.020	30.227	36.272	30.004
BANK 5	37.670	28.034	36.474	27.250	34.611	28.292	32.678	27.662	26.666	26.054
BANK 6	26.530	27.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.266	29.243	29.254	-1.490	40.710	48.190	0.000	0.000	0.000	0.000

LEAF RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
166 READING AT 8227012030										
BANK 1	76.210	82.471	82.320	82.442	82.372	83.145	85.497	81.591	83.923	93.227
BANK 2	43.569	91.694	91.861	84.182	83.191	83.842	83.035	84.936	84.570	85.385
BANK 3	84.382	82.480	86.025	83.779	85.707	84.038	84.898	86.763	85.949	86.269
BANK 4	86.661	85.727	86.063	85.686	85.361	87.358	85.000	30.017	32.719	29.900
BANK 5	35.083	28.253	37.986	26.691	29.080	28.032	33.018	27.662	26.706	26.064
BANK 6	26.710	27.243	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.262	29.235	29.247	-1.460	40.740	48.140	0.000	0.000	0.000	0.000
167 READING AT 8227012045										
BANK 1	76.210	82.401	82.300	82.422	82.372	83.115	85.567	81.571	83.883	93.247
BANK 2	43.569	91.674	91.861	84.182	83.211	83.832	82.915	84.816	84.550	85.375
BANK 3	84.393	82.749	86.035	83.749	85.727	84.068	84.828	86.763	85.929	86.259
BANK 4	86.711	85.637	86.013	85.686	85.391	83.408	85.010	30.408	31.831	30.146
BANK 5	34.506	28.412	30.347	26.322	27.905	27.392	32.629	27.682	26.676	26.064
BANK 6	26.610	27.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.258	29.233	29.244	-1.450	40.730	48.230	0.000	0.000	0.000	0.000
168 READING AT 8227012100										
BANK 1	76.190	82.421	82.290	82.402	82.382	83.095	85.467	81.561	83.863	93.247
BANK 2	43.569	91.684	91.861	84.172	83.181	83.782	82.975	84.806	84.550	85.365
BANK 3	84.362	82.780	85.935	83.739	85.737	84.058	84.898	86.793	85.929	86.259
BANK 4	86.691	85.727	86.043	85.716	85.331	82.418	85.000	30.918	31.891	30.640
BANK 5	34.995	29.439	34.868	26.502	32.080	28.352	32.279	27.682	26.656	26.044
BANK 6	26.451	27.193	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.264	29.239	29.245	-1.470	40.770	48.270	0.000	0.000	0.000	0.000
169 READING AT 8227012115										
BANK 1	76.180	82.421	82.270	82.442	82.362	83.065	85.447	81.551	83.833	93.227
BANK 2	43.539	91.684	91.840	84.152	83.211	83.842	82.935	84.816	84.530	85.325
BANK 3	84.352	82.300	85.965	83.709	85.687	84.058	84.828	86.773	85.889	86.269
BANK 4	86.761	85.807	86.053	85.656	85.341	82.488	84.980	31.529	33.537	30.764
BANK 5	38.309	29.767	37.966	26.921	34.940	29.081	32.619	27.672	26.696	26.024
BANK 6	26.381	27.223	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.256	29.235	29.251	-1.440	40.660	48.380	0.000	0.000	0.000	0.000
170 READING AT 8227012128										
BANK 1	76.140	82.421	82.270	82.392	82.352	83.035	85.417	81.541	83.803	93.187
BANK 2	43.529	91.671	91.820	84.142	83.161	83.772	82.875	84.866	84.530	85.305
BANK 3	84.352	82.310	86.045	83.759	85.687	84.048	84.858	86.723	85.879	86.259
BANK 4	86.841	85.637	85.983	85.706	85.351	81.888	84.960	31.199	32.220	30.346
BANK 5	35.003	28.990	32.637	27.240	28.652	28.302	32.639	27.682	26.676	26.074
BANK 6	25.942	26.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.254	29.231	29.242	-1.460	40.710	48.360	0.000	0.000	0.000	0.000
171 READING AT 8227012145										
BANK 1	76.170	82.431	82.220	82.382	82.342	83.015	84.047	81.531	83.753	93.177
BANK 2	43.498	91.654	91.810	84.132	83.111	83.792	83.075	84.816	84.510	85.285
BANK 3	84.332	82.280	85.015	83.689	85.657	84.038	84.818	86.763	85.899	86.118
BANK 4	86.901	85.617	86.013	85.656	85.371	85.028	85.000	30.928	31.781	30.374
BANK 5	34.575	28.552	29.988	26.671	27.586	27.472	32.549	27.722	26.696	26.074
BANK 6	25.902	26.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.252	29.228	29.235	-1.430	40.410	48.210	0.000	0.000	0.000	0.000

LEAK RATE INSTRUMENT CALIBRATED DATA

POTENTI	1	2	3	4	5	6	7	8	9	10
172 READING AT 8227012200										
BANK 1	76.190	82.401	82.230	82.392	82.332	83.005	84.057	81.531	83.763	93.167
BANK 2	93.488	91.624	91.800	84.132	83.171	83.852	82.885	84.746	84.520	85.275
BANK 3	84.302	82.290	84.945	83.689	85.687	84.028	84.858	86.723	85.818	86.229
BANK 4	86.731	85.687	85.493	85.626	85.331	85.038	85.010	31.079	32.220	30.469
BANK 5	35.634	28.083	35.366	26.791	30.107	27.882	32.200	27.692	26.696	26.064
BANK 6	25.432	26.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.255	29.226	29.243	-1.410	40.590	48.390	0.000	0.000	0.000	0.000
173 READING AT 8227012215										
BANK 1	76.180	82.401	82.230	82.392	82.312	82.995	83.957	81.521	83.733	93.127
BANK 2	93.488	91.664	91.780	84.122	83.181	83.782	82.935	84.796	84.520	85.275
BANK 3	84.312	82.300	84.965	83.729	85.687	84.018	84.928	86.733	85.859	86.178
BANK 4	86.901	85.687	86.013	85.566	85.311	85.038	85.010	31.079	34.475	30.469
BANK 5	37.291	27.844	37.426	27.250	33.325	28.721	32.669	27.652	26.676	26.064
BANK 6	25.732	26.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.254	29.232	29.241	-1.450	40.870	48.510	0.000	0.000	0.000	0.000
174 READING AT 8227012230										
BANK 1	76.140	82.401	82.240	82.402	82.302	82.985	83.957	81.521	83.723	93.087
BANK 2	93.478	91.614	91.770	84.112	83.141	83.822	81.095	84.756	84.500	85.235
BANK 3	84.312	82.290	84.925	83.689	85.717	84.028	84.908	86.723	85.859	86.199
BANK 4	86.821	85.747	85.993	85.566	85.281	85.008	84.980	31.349	32.131	30.327
BANK 5	35.684	28.143	33.872	27.060	28.851	27.932	32.868	27.642	26.676	26.104
BANK 6	25.712	26.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.252	29.222	29.236	-1.350	40.870	48.870	0.000	0.000	0.000	0.000
175 READING AT 8227012245										
BANK 1	76.100	82.381	82.220	82.352	82.292	82.975	83.887	81.516	83.703	93.087
BANK 2	93.468	91.644	91.750	84.112	83.131	83.702	82.945	84.726	84.520	85.275
BANK 3	84.272	82.290	84.935	83.679	85.697	84.018	84.898	86.682	85.838	86.188
BANK 4	86.791	85.717	86.023	85.506	85.311	84.988	84.970	31.139	31.422	30.337
BANK 5	34.765	27.834	30.576	26.721	27.964	27.422	32.140	27.662	26.706	26.074
BANK 6	25.672	26.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.246	29.224	29.233	-1.340	40.650	48.750	0.000	0.000	0.000	0.000
176 READING AT 8227012300										
BANK 1	76.100	82.381	82.200	82.362	82.292	82.975	83.907	81.491	83.693	93.067
BANK 2	93.458	91.624	91.760	84.092	83.101	83.762	82.905	84.736	84.510	85.195
BANK 3	84.312	82.310	84.955	83.669	85.717	83.978	84.988	86.702	85.808	86.219
BANK 4	86.831	85.557	85.993	85.616	85.321	85.018	84.980	30.688	33.887	30.146
BANK 5	35.444	27.535	35.705	27.000	31.193	27.732	31.611	27.672	26.736	26.064
BANK 6	25.702	26.539	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.251	29.226	29.236	-1.390	40.770	48.630	0.000	0.000	0.000	0.000
177 READING AT 8227012315										
BANK 1	76.140	82.411	82.200	82.362	82.282	82.945	83.787	81.501	83.673	93.027
BANK 2	93.438	91.634	91.750	84.062	83.121	83.693	83.125	84.716	84.490	85.165
BANK 3	84.282	82.310	85.015	83.679	85.707	83.978	84.888	86.702	85.869	86.219
BANK 4	86.781	85.617	85.973	85.596	85.371	85.008	84.980	30.137	36.232	29.966
BANK 5	37.630	27.555	38.524	27.230	31.452	28.172	32.499	27.672	26.696	26.034
BANK 6	25.922	26.594	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.250	29.228	29.240	-1.450	40.820	48.800	0.000	0.000	0.000	0.000

LEAK RATE INSTRUMENT CALIBRATED DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
178 READING AT 8227012330										
BANK 1	76.140	82.371	82.170	82.342	82.272	82.935	84.767	81.501	83.663	93.027
BANK 2	93.438	91.614	91.740	84.092	83.111	83.722	82.905	84.736	84.510	85.195
BANK 3	84.272	82.310	85.615	83.729	85.657	83.998	84.838	86.682	85.818	86.158
BANK 4	86.691	85.547	85.963	85.636	85.301	82.888	84.930	29.977	32.669	29.729
BANK 5	35.833	27.954	32.846	26.661	29.190	28.052	33.008	27.682	26.696	26.044
BANK 6	26.500	27.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.244	29.222	29.230	-1.390	42.440	46.690	0.000	0.000	0.000	0.000
179 READING AT 8227012345										
BANK 1	76.140	82.361	82.220	82.332	82.252	82.925	84.647	81.491	83.653	93.007
BANK 2	93.418	91.604	91.720	84.102	83.141	83.643	83.125	84.656	84.480	85.135
BANK 3	84.282	82.310	85.695	83.679	85.687	84.008	84.748	86.682	85.808	85.998
BANK 4	86.791	85.637	85.963	85.556	85.301	83.038	84.920	30.397	31.742	30.033
BANK 5	34.416	28.153	30.048	26.382	27.785	27.432	32.639	27.692	26.646	26.044
BANK 6	26.520	27.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.241	29.217	29.228	-1.350	42.400	46.360	0.000	0.000	0.000	0.000
180 READING AT 822711 0										
BANK 1	76.150	82.361	82.180	82.322	82.262	82.895	84.567	81.481	83.643	92.977
BANK 2	93.418	91.594	91.740	84.072	83.091	83.712	82.895	84.776	84.480	85.195
BANK 3	84.282	82.330	85.905	83.619	85.627	83.988	84.798	86.702	85.798	86.038
BANK 4	86.611	85.637	85.983	85.566	85.271	83.438	84.940	30.878	31.831	30.507
BANK 5	34.695	29.090	34.719	26.522	32.060	28.362	32.389	27.682	26.656	26.034
BANK 6	26.351	26.985	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.245	29.222	29.232	-1.420	42.360	46.570	0.000	0.000	0.000	0.000
181 READING AT 822711 15										
BANK 1	76.180	82.351	82.120	82.302	82.272	82.895	84.507	81.471	83.623	92.947
BANK 2	93.408	91.624	91.700	84.082	83.101	83.653	82.885	84.756	84.430	85.185
BANK 3	84.252	82.309	85.045	83.699	85.677	83.988	84.798	86.642	85.818	86.158
BANK 4	86.741	85.627	85.963	85.556	85.311	84.078	84.920	31.629	33.627	30.659
BANK 5	34.399	29.439	37.926	26.901	35.030	29.061	32.559	27.672	26.696	25.995
BANK 6	25.972	26.738	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.245	29.221	29.232	-1.410	42.400	46.510	0.000	0.000	0.000	0.000
182 READING AT 822711 30										
BANK 1	76.170	82.341	82.150	82.312	82.262	82.864	83.737	81.461	83.603	92.907
BANK 2	93.398	91.564	91.670	84.052	83.081	83.683	82.975	84.856	84.450	85.185
BANK 3	84.242	82.320	85.055	83.639	85.647	83.978	84.758	86.602	85.788	86.098
BANK 4	86.801	85.557	85.953	85.546	85.281	84.628	84.930	31.169	32.390	30.346
BANK 5	36.392	29.299	32.458	27.190	28.762	28.282	32.649	27.692	26.686	26.054
BANK 6	25.952	26.619	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.237	29.217	29.225	-1.420	42.420	46.360	0.000	0.000	0.000	0.000
183 READING AT 822711 45										
BANK 1	76.170	82.341	82.170	82.292	82.241	82.854	83.647	81.461	83.573	92.897
BANK 2	93.388	91.551	91.660	84.052	83.101	83.782	82.875	84.856	84.430	85.145
BANK 3	84.232	82.300	85.075	83.639	85.657	84.078	84.668	86.642	85.758	86.158
BANK 4	86.731	85.617	85.983	85.566	85.271	84.618	84.910	31.049	31.801	30.279
BANK 5	35.005	28.512	30.038	26.681	27.556	27.422	32.359	27.712	26.686	26.074
BANK 6	25.942	26.609	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BANK 7	29.234	29.211	29.222	-1.370	42.530	46.370	0.000	0.000	0.000	0.000

PEAK RATE INSTRUMENT CALIBRATED DATA										
PLOTS:	1	2	3	4	5	6	7	8	9	10
184 HEADLOG AT 82271: 100										
BANK 1	16-170	82-341	82-110	82-292	82-231	82-854	84-347	81-451	83-563	92-887
BANK 2	91-178	91-594	91-660	84-042	84-101	81-372	82-325	84-006	84-488	85-105
BANK 3	84-232	82-509	85-505	83-063	85-097	81-938	84-008	84-000	85-028	86-020
BANK 4	86-631	85-537	85-237	83-586	85-231	81-438	84-900	84-000	85-522	86-000
BANK 5	35-853	28-024	35-237	26-701	30-077	27-972	32-070	27-000	31-000	20-044
BANK 6	26-221	26-896	0-000	0-000	0-000	0-000	0-000	0-000	0-000	0-000
BANK 7	29-236	29-215	29-224	-1-350	42-540	46-510	0-000	0-000	0-000	0-000
185 HEADLOG AT 82271: 115										
BANK 1	16-150	82-301	82-120	82-292	82-231	82-834	84-307	81-441	83-553	92-877
BANK 2	91-178	91-544	91-640	84-042	84-099	81-372	82-305	84-006	84-474	85-105
BANK 3	84-227	82-510	85-605	83-063	85-097	81-938	84-078	84-000	85-028	86-020
BANK 4	86-651	85-657	85-953	83-586	85-231	81-438	84-900	84-000	85-522	86-000
BANK 5	37-361	27-794	38-056	27-200	33-533	28-811	32-728	21-000	32-000	20-044
BANK 6	26-181	26-985	0-000	0-000	0-000	0-000	0-000	0-000	0-000	0-000
BANK 7	29-236	29-217	29-225	-1-350	42-500	46-510	0-000	0-000	0-000	0-000
186 HEADLOG AT 82271: 140										
BANK 1	16-170	82-301	82-100	82-292	82-191	82-814	84-377	81-436	83-533	92-807
BANK 2	91-178	91-544	91-620	84-042	83-097	81-372	82-395	84-006	84-488	85-085
BANK 3	84-202	82-500	85-613	83-063	85-097	81-938	84-088	84-000	85-089	86-089
BANK 4	86-621	85-587	85-923	83-586	85-231	27-972	32-988	27-000	32-000	20-074
BANK 5	35-853	26-133	33-963	26-701	28-000	0-000	0-000	0-000	0-000	0-000
BANK 6	26-161	26-955	0-000	-1-240	42-510	46-510	0-000	0-000	0-000	0-000
BANK 7	29-232	29-209	29-220	-1-240	42-510	46-510	0-000	0-000	0-000	0-000

DATA VERIFICATION: TREND TEST, COMPARE TEST

FROM READING 149 AT 82270:1600 TO READING 186 AT 82271: 130

READING	TIME	PFID CON TYP		EXP-VAL	CAL-VAL	LIMIT	
						UPPER	LOWER
149	82270:1615	102	1	2	82.570*	82.491	96.244
		301	1	2	84.416*	84.423	96.244
		304	1	2	83.180*	83.239	96.244
		307	1	2	84.562*	84.498	96.244
		409	3	2	32.908*	34.575	42.215
		501	3	2	36.097*	37.431	42.215
		502	3	2	28.539*	27.894	42.215
		503	3	2	34.486*	38.325	42.215
		504	3	2	26.955*	27.390	42.215
		505	3	2	30.669*	33.266	42.215
		506	3	2	28.254*	28.221	42.215
		507	3	2	32.572*	32.768	42.215
150	82270:1630	106	1	2	84.146*	84.066	96.208
		107	1	2	85.177*	84.947	96.208
		301	1	2	84.415*	84.403	96.208
		303	1	2	85.366*	85.265	96.208
		304	1	2	83.188*	83.259	96.208
		307	1	2	84.566*	84.688	96.208
		409	3	2	32.896*	32.220	38.595
		410	3	2	30.423*	30.327	38.595
		501	3	2	36.127*	35.853	38.595
		505	3	2	30.610*	29.011	38.595
		506	3	2	28.269*	28.102	38.595
		507	3	2	32.598*	33.018	38.595
		508	3	2	27.616*	27.602	38.595
		510	3	2	26.063*	26.104	38.595
		601	3	2	26.073*	25.982	38.595
		701	3	4	29.290*	29.282	29.282
151	82270:1645	706	1	3	48.342*	48.470	48.470
		107	1	2	85.225*	85.917	96.278
		207	1	2	83.170*	83.204	96.278
		303	1	2	85.346*	85.915	96.278
		401	2	2	87.038*	86.881	89.104
		406	2	2	84.582*	82.818	89.104
		409	3	2	32.803*	31.512	36.575
		501	3	2	36.053*	34.685	36.575
		503	3	2	34.373*	30.427	36.575
		504	3	2	26.979*	26.781	36.575
		505	3	2	30.420*	28.104	36.575
		506	3	2	28.230*	27.502	36.575
		507	3	2	32.599*	32.389	36.575
		508	3	2	27.616*	27.612	36.575
		509	3	2	26.661*	26.686	36.575
		601	3	2	26.085*	26.301	36.575
152	82270:1700	602	3	2	26.697*	27.064	36.575
		706	1	3	48.339*	48.180	48.180
		206	1	2	83.964*	83.892	96.195
		207	1	2	83.165*	83.125	96.195
		210	1	2	86.036*	86.066	96.195
		408	3	2	31.034*	30.808	39.573
		409	3	2	32.825*	33.996	39.573
		110	3	2	30.417*	30.251	39.573
		503	3	2	34.352*	35.704	39.573
		504	3	2	26.983*	27.050	39.573
		505	3	2	30.465*	31.253	39.573
		507	3	2	32.554*	31.860	39.573
		508	3	2	27.617*	27.632	39.573
		705	2	3	41.076*	41.140	41.140

152	82270:1715	706	1	3	48.342*	48.410	48.410	48.410
		710	1	2	86.032*	85.986	96.178	73.730
		301	1	2	84.413*	84.403	96.178	73.730
		302	1	2	82.097*	82.109	96.178	73.730
		307	1	2	84.574*	84.558	96.178	73.730
		402	2	2	85.957*	85.797	88.092	83.753
		408	3	2	30.991*	30.227	43.366	17.576
		409	3	2	33.056*	36.321	43.366	17.576
		410	3	2	30.383*	29.957	43.366	17.576
		501	3	2	36.048*	37.780	43.366	17.576
		503	3	2	34.615*	38.743	43.366	17.576
		504	3	2	27.003*	27.250	43.366	17.576
		505	3	2	30.608*	34.741	43.366	17.576
		506	3	2	28.170*	28.322	43.366	17.576
		154	82270:1730	507	3	2	32.540*	32.738
509	3			2	26.660*	26.596	43.366	17.576
510	3			2	26.070*	26.054	43.366	17.576
601	3			2	26.087*	26.121	43.366	17.576
706	1			3	48.352*	48.470	48.470	48.470
301	1			2	84.411*	84.382	96.163	73.751
302	1			2	82.097*	82.109	96.163	73.751
307	1			2	84.580*	84.658	96.163	73.751
309	2			2	86.029*	85.919	88.106	83.665
408	3			2	30.913*	30.127	37.858	20.747
501	3			2	36.059*	35.594	37.858	20.747
503	3			2	34.633*	32.528	37.858	20.747
504	3			2	26.998*	26.751	37.858	20.747
505	3			2	30.660*	29.250	37.858	20.747
507	3			2	32.563*	33.038	37.858	20.747
155	82270:1745	509	3	2	26.660*	26.686	37.858	20.747
		510	3	2	26.069*	26.054	37.858	20.747
		601	3	2	26.102*	26.301	37.858	20.747
		705	2	3	41.078*	41.180	41.180	41.180
		706	1	3	48.378*	48.680	48.680	48.680
		107	1	2	85.314*	85.697	96.162	73.750
		302	1	2	82.097*	82.089	96.162	73.750
		303	1	2	85.388*	85.535	96.162	73.750
		305	1	2	85.803*	85.767	96.162	73.750
		307	1	2	84.577*	84.488	96.162	73.750
		401	2	2	86.987*	86.841	88.782	82.705
		404	2	2	85.857*	85.756	88.782	82.705
		405	2	2	85.547*	85.411	88.782	82.705
		406	2	2	84.327*	83.158	88.782	82.705
		409	3	2	33.147*	31.831	36.407	21.451
156	82270:1800	501	3	2	35.962*	34.406	36.407	21.451
		503	3	2	34.362*	30.148	36.407	21.451
		504	3	2	26.962*	26.472	36.407	21.451
		505	3	2	30.518*	27.935	36.407	21.451
		506	3	2	28.104*	27.482	36.407	21.451
		508	3	2	27.621*	27.642	36.407	21.451
		509	3	2	26.659*	26.646	36.407	21.451
		510	3	2	26.067*	26.044	36.407	21.451
		601	3	2	26.136*	26.520	36.407	21.451
		602	3	2	26.752*	26.965	36.407	21.451
		705	2	3	41.079*	41.040	41.040	41.040
		107	1	2	85.369*	85.897	96.174	73.771
		208	1	2	85.336*	85.307	96.174	73.771
		210	1	2	86.024*	85.996	96.174	73.771
		302	1	2	82.097*	82.099	96.174	73.771
303	1	2	85.422*	85.815	96.174	73.771		
307	1	2	84.579*	84.628	96.174	73.771		
409	3	2	33.053*	31.811	38.607	20.705		
510	3	2	30.208*	30.702	38.607	20.705		
502	3	2	28.263*	24.349	38.607	20.705		
505	3	2	30.546*	32.239	38.607	20.705		

157	82270:141*	596	4	2	28.091*	28.352	38.607	20.705
		507	3	2	32.587*	32.299	38.607	20.705
		509	4	2	26.657*	26.636	38.607	20.705
		510	3	2	26.060*	25.965	38.607	20.705
		602	4	2	26.759*	26.678	38.607	20.705
		705	2	1	41.073*	40.980	40.980	10.980
		706	1	1	48.418*	48.680	48.680	48.680
		205	1	2	83.319*	83.241	96.140	73.771
		207	1	2	81.139*	83.005	96.140	73.771
		208	1	2	85.333*	85.277	96.140	73.771
		302	1	2	82.097*	82.099	96.140	73.771
		307	1	2	84.585*	84.658	96.140	73.771
		408	3	2	30.833*	31.609	42.055	18.911
		410	3	2	30.297*	30.270	42.055	18.911
		501	3	2	35.849*	37.800	42.055	18.911
		502	3	2	28.375*	29.518	42.055	18.911
		503	3	2	34.376*	37.717	42.055	18.911
		505	3	2	30.824*	34.741	42.055	18.911
		506	3	2	28.153*	29.201	42.055	18.911
		507	3	4	32.589*	32.639	42.055	18.911
		509	3	2	26.658*	26.686	42.055	18.911
158	82270:1430	602	3	2	26.782*	27.074	42.055	18.911
		705	2	3	41.076*	41.180	41.180	41.180
		302	1	2	82.095*	82.059	96.106	73.757
		306	1	2	84.074*	83.948	96.106	73.757
		307	1	2	84.586*	84.558	96.106	73.757
		409	3	2	32.917*	32.131	38.488	20.679
		410	3	2	30.303*	30.412	38.488	20.679
		501	3	2	35.986*	36.792	38.488	20.679
		503	3	2	34.373*	33.026	38.488	20.679
		504	3	2	26.913*	27.260	38.488	20.679
		505	3	2	30.855*	28.811	38.488	20.679
		507	3	2	32.547*	32.698	38.488	20.679
		508	3	2	27.625*	27.632	38.488	20.679
		509	3	2	26.659*	26.676	38.488	20.679
159	82270:1445	705	2	3	41.064*	40.860	40.860	40.860
		101	1	2	76.280*	76.100	96.035	73.580
		102	1	2	82.485*	82.311	96.035	73.580
		103	1	2	82.531*	82.280	96.035	73.580
		104	1	2	82.563*	82.432	96.035	73.580
		105	1	2	82.468*	82.332	96.035	73.580
		106	1	2	84.066*	83.515	96.035	73.580
		108	1	2	81.670*	81.581	96.035	73.580
		109	1	2	85.161*	84.503	96.035	73.580
		208	1	2	85.318*	85.167	96.035	73.580
		210	1	2	85.989*	85.575	96.035	73.580
		302	1	2	82.088*	82.009	96.035	73.580
		305	1	2	85.784*	85.707	96.035	73.580
		307	1	2	84.587*	84.578	96.035	73.580
		308	2	2	86.871*	86.662	88.533	82.724
		309	2	2	85.966*	85.798	88.533	82.724
		402	2	2	85.866*	85.637	88.533	82.724
		403	2	2	86.186*	86.013	88.533	82.724
		407	2	2	85.133*	84.910	88.533	82.724
		410	3	2	30.320*	30.517	37.422	20.695
160	82270:1400	503	3	2	34.167*	31.104	37.422	20.695
		504	3	2	26.905*	26.681	37.422	20.695
		505	3	2	30.663*	27.506	37.422	20.695
		506	3	2	28.176*	27.452	37.422	20.695
		507	3	2	32.590*	32.429	37.422	20.695
		508	3	2	27.624*	27.582	37.422	20.695
		509	3	2	26.664*	26.556	37.422	20.695
		510	3	2	26.043*	25.975	37.422	20.695
		705	2	3	41.030*	40.610	40.610	40.610
		106	1	2	83.993*	83.255	96.991	73.609

107	1	2	85.491*	85.107	95.991	73.609
109	1	2	85.071*	84.163	95.991	73.609
207	1	2	83.090*	82.865	95.991	73.609
208	1	2	85.292*	85.006	95.991	73.609
210	1	2	85.940*	85.465	95.991	73.609
301	1	2	81.389*	81.433	95.991	73.609
302	1	2	82.086*	82.109	95.991	73.609
304	1	2	83.330*	83.529	95.991	73.609
307	1	2	84.602*	84.828	95.991	73.609
410	3	2	30.350*	30.659	39.638	19.875
502	3	2	28.583*	28.213	39.638	19.875
503	3	2	34.181*	30.243	39.638	19.875
504	3	2	26.906*	27.000	39.638	19.875
507	3	2	32.556*	32.100	39.638	19.875
508	3	2	27.62*	27.662	39.638	19.875
510	3	2	26.041*	26.064	39.638	19.875
161	161	2	85.468*	85.237	96.031	73.652
301	1	2	84.392*	84.443	96.031	73.652
302	1	2	82.089*	82.159	96.031	73.652
304	1	2	83.361*	83.649	96.031	73.652
307	1	2	84.638*	85.018	96.031	73.652
409	3	2	32.823*	35.014	42.782	18.238
501	3	2	36.222*	37.900	42.782	18.238
502	3	2	28.543*	27.814	42.782	18.238
503	3	2	34.462*	38.554	42.782	18.238
504	3	2	26.935*	27.350	42.782	18.238
505	3	2	30.675*	34.043	42.782	18.238
506	3	2	28.200*	28.951	42.782	18.238
507	3	2	32.555*	32.848	42.782	18.238
509	3	2	26.651*	26.666	42.782	18.238
510	3	2	26.041*	26.064	42.782	18.238
162	162	2	83.075*	83.194	95.999	73.684
302	1	2	82.096*	82.179	95.999	73.684
409	3	2	30.948*	31.329	38.310	20.699
409	3	2	32.843*	32.260	38.310	20.699
503	3	2	34.534*	33.085	38.310	20.699
505	3	2	30.673*	29.349	38.310	20.699
506	3	2	28.212*	28.032	38.310	20.699
507	3	2	32.542*	32.998	38.310	20.699
508	3	2	27.626*	27.622	38.310	20.699
509	3	2	26.652*	26.666	38.310	20.699
510	3	2	26.046*	26.114	38.310	20.699
704	3	3	-1.467*	-1.360	-1.360	-1.360
705	2	3	40.947*	40.540	40.540	40.540
163	163	2	82.467*	82.531	96.017	73.684
302	1	2	83.082*	83.194	96.017	73.684
302	1	2	82.108*	82.209	96.017	73.684
401	2	2	86.887*	86.981	88.951	82.437
409	3	2	32.774*	31.552	36.544	21.355
501	3	2	30.228*	34.685	36.544	21.355
502	3	2	28.445*	27.864	36.544	21.355
503	3	2	34.297*	30.098	36.544	21.355
504	3	2	26.951*	26.581	36.544	21.355
505	3	2	30.511*	28.084	36.544	21.355
506	3	2	28.172*	27.462	36.544	21.355
507	3	2	32.563*	32.349	36.544	21.355
508	3	2	27.628*	27.652	36.544	21.355
509	3	2	26.656*	26.716	36.544	21.355
601	3	2	26.244*	26.221	36.544	21.355
706	1	3	48.537*	48.430	48.430	48.430
204	1	2	84.185*	84.207	95.999	73.687
401	2	2	86.883*	86.831	89.024	82.289
402	3	2	31.006*	30.848	39.395	20.100
409	3	2	32.807*	33.917	39.395	20.100
410	3	2	30.427*	30.241	39.395	20.100

			503	3	2	34.254*	35.745	39.395	20.100
			504	3	2	26.749*	26.990	39.395	20.100
			505	3	2	30.472*	31.352	39.395	20.100
			507	3	2	32.534*	31.790	39.395	20.100
			508	3	2	27.631*	27.662	39.395	20.100
			601	3	2	26.251*	26.341	39.395	20.100
			706	3	3	48.529*	48.440	48.440	48.440
165	82270:2015		102	1	2	82.410*	82.461	95.985	73.656
			204	1	2	84.185*	84.192	95.985	73.656
			205	1	2	83.244*	83.211	95.985	73.656
			207	1	2	83.081*	82.915	95.985	73.656
			305	1	2	85.756*	85.777	95.985	73.656
			306	1	2	84.006*	84.028	95.985	73.656
			310	2	2	86.265*	86.299	89.041	82.238
			408	3	2	30.966*	30.227	43.042	17.980
			409	3	2	33.042*	36.272	43.042	17.980
			410	3	2	30.400*	30.004	43.042	17.980
			501	3	2	36.204*	37.670	43.042	17.980
			503	3	2	34.444*	38.474	43.042	17.980
			504	3	2	26.966*	27.250	43.042	17.980
			505	3	2	30.713*	34.681	43.042	17.980
			506	3	2	28.120*	28.292	43.042	17.980
			601	3	2	26.772*	26.530	43.042	17.980
			704	3	3	-1.447*	-1.490	-1.490	-1.490
			706	1	3	48.504*	48.190	48.190	48.190
166	82270:2030		107	1	2	85.418*	85.497	96.005	73.667
			204	1	2	84.185*	84.182	96.005	73.667
			205	1	2	83.239*	83.191	96.005	73.667
			301	1	2	84.400*	84.382	96.005	73.667
			305	1	2	85.753*	85.707	96.005	73.667
			306	1	2	84.007*	84.038	96.005	73.667
			308	2	2	86.810*	86.763	89.158	82.009
			309	2	2	85.906*	85.949	89.158	82.009
			401	2	2	86.864*	86.661	89.158	82.009
			402	2	2	85.794*	85.727	89.158	82.009
			408	3	2	30.884*	30.017	38.007	20.788
			410	3	2	30.353*	29.900	38.007	20.788
			501	3	2	36.213*	35.883	38.007	20.788
			503	3	2	34.535*	32.986	38.007	20.788
			504	3	2	26.959*	26.691	38.007	20.788
			505	3	2	30.747*	29.080	38.007	20.788
			507	3	2	32.536*	33.018	38.007	20.788
			601	3	2	26.311*	26.710	38.007	20.788
			704	3	3	-1.447*	-1.460	-1.460	-1.460
167	82270:2045		102	1	2	82.467*	82.401	96.012	73.627
			107	1	2	85.429*	85.567	96.012	73.627
			204	1	2	84.185*	84.182	96.012	73.627
			207	1	2	83.060*	82.915	96.012	73.627
			301	1	2	84.400*	84.393	96.012	73.627
			306	1	2	84.011*	84.068	96.012	73.627
			402	2	2	85.780*	85.637	88.438	82.923
			409	3	2	33.134*	31.831	36.392	21.497
			501	3	2	36.112*	34.506	36.392	21.497
			502	3	2	26.271*	28.112	36.392	21.497
			503	3	2	34.296*	30.347	36.392	21.497
			504	3	2	26.915*	26.322	36.392	21.497
			505	3	2	30.588*	27.905	36.392	21.497
			506	3	2	28.056*	27.192	36.392	21.497
			704	3	3	-1.447*	-1.450	-1.450	-1.450
168	82270:2100		204	1	2	84.184*	84.172	96.006	73.614
			206	1	2	83.853*	83.782	96.006	73.614
			301	1	2	84.397*	84.362	96.006	73.614
			309	2	2	85.408*	85.929	89.131	82.050
			406	2	2	83.024*	82.418	89.131	82.050
			409	3	2	33.095*	31.891	34.560	20.905

169 82270:2115

170 82270:2128

171 82270:2145

410	3	2	30.313*	30.640	38.560	20.905
502	3	2	28.336*	29.439	38.560	20.905
505	3	2	30.542*	32.080	38.560	20.905
506	3	2	28.045*	28.352	38.560	20.905
507	3	2	32.547*	32.279	38.560	20.905
509	3	2	26.674*	26.656	38.560	20.905
510	3	2	26.063*	26.044	38.560	20.905
704	3	3	-1.449*	-1.470	-1.470	-1.470
204	1	2	84.181*	85.152	95.981	73.617
301	1	2	84.393*	84.352	95.981	73.617
305	1	2	85.741*	85.687	95.981	73.617
309	2	2	85.907*	85.889	89.105	82.098
310	2	2	86.262*	86.269	89.105	82.098
402	2	2	85.766*	85.807	89.105	82.098
404	2	2	85.709*	85.656	89.105	82.098
408	3	2	30.800*	31.529	42.543	18.714
409	3	2	33.026*	33.537	42.543	18.714
410	3	2	30.340*	30.764	42.543	18.714
501	3	2	36.058*	38.319	42.543	18.714
502	3	2	28.463*	29.767	42.543	18.714
503	3	2	34.377*	37.466	42.543	18.714
505	3	2	30.866*	34.940	42.543	18.714
506	3	2	24.104*	29.081	42.543	18.714
507	3	2	32.547*	32.619	42.543	18.714
509	3	2	26.676*	26.696	42.543	18.714
510	3	2	26.060*	26.024	42.543	18.714
704	3	3	-1.449*	-1.440	-1.440	-1.440
101	1	2	76.212*	76.180	95.978	73.599
107	1	2	85.444*	85.417	95.978	73.599
204	1	2	84.177*	84.142	95.978	73.599
206	1	2	83.841*	83.772	95.978	73.599
308	2	2	86.790*	86.723	89.508	81.537
309	2	2	85.905*	85.879	89.508	81.537
310	2	2	86.262*	86.259	89.508	81.537
402	2	2	85.755*	85.837	89.508	81.537
406	4	2	82.847*	81.886	89.508	81.537
409	3	2	32.965*	32.270	37.963	20.827
501	3	2	36.084*	35.803	37.963	20.827
503	3	2	34.370*	32.837	37.963	20.827
504	4	2	26.850*	27.240	37.963	20.827
505	3	2	30.882*	28.652	37.963	20.827
507	3	2	32.553*	32.639	37.963	20.827
510	3	2	26.060*	26.074	37.963	20.827
601	3	2	26.378*	25.942	37.963	20.827
602	3	2	27.066*	26.500	37.963	20.827
704	3	3	-1.450*	-1.460	-1.460	-1.460
107	1	2	85.358*	84.047	95.832	73.546
205	1	2	83.207*	83.111	95.832	73.546
207	1	2	83.009*	83.075	95.832	73.546
303	1	2	85.860*	85.015	95.832	73.546
310	2	2	86.213*	86.118	87.676	81.997
401	2	2	86.806*	86.901	87.676	81.997
406	2	2	82.924*	85.028	87.676	81.997
409	3	2	32.857*	31.781	36.605	21.177
501	3	2	36.004*	34.575	36.605	21.177
503	3	2	34.092*	29.988	36.605	21.177
504	3	2	26.845*	26.671	36.605	21.177
505	3	2	30.684*	27.586	36.605	21.177
506	3	2	24.133*	27.472	36.605	21.177
508	3	2	27.064*	27.722	36.605	21.177
510	3	2	26.060*	26.074	36.605	21.177
601	3	2	26.338*	25.902	36.605	21.177
602	3	2	27.017*	26.490	36.605	21.177
704	3	3	-1.449*	-1.430	-1.430	-1.430
705	2	3	40.756*	40.410	40.410	40.410

172	82270:2200	706	1	3	48.356*	48.210	48.210	48.210
		707	1	2	85.228*	84.057	95.812	73.548
		707	1	2	82.997*	82.885	95.812	73.548
		707	1	2	85.762*	84.945	95.812	73.548
		709	2	2	85.898*	85.818	87.572	84.065
		701	2	2	86.803*	86.731	87.572	84.065
		706	2	2	85.099*	85.038	87.572	84.065
		702	3	2	28.623*	28.003	38.931	20.081
		703	3	2	34.015*	35.166	38.931	20.081
		707	3	2	32.535*	32.200	38.931	20.081
		704	3	3	-1.446*	-1.410	-1.410	-1.410
		706	1	2	83.826*	83.782	95.812	73.548
		706	1	2	84.032*	84.018	95.812	73.548
		707	1	2	84.841*	84.928	95.812	73.548
173	82270:2215	701	2	2	86.807*	86.901	87.676	83.983
		704	2	2	85.681*	85.566	87.676	83.983
		709	3	2	37.807*	34.475	42.021	18.466
		701	3	2	35.982*	37.291	42.021	18.466
		702	3	2	28.574*	27.844	42.021	18.466
		703	3	2	34.216*	37.926	42.021	18.466
		704	3	2	26.861*	27.250	42.021	18.466
		705	3	2	30.629*	33.325	42.021	18.466
		706	3	2	28.132*	28.721	42.021	18.466
		707	3	2	32.532*	32.669	42.021	18.466
		708	3	2	27.671*	27.652	42.021	18.466
		705	2	3	40.720*	40.870	40.870	40.870
		706	1	3	48.357*	48.530	48.530	48.530
		707	1	2	82.988*	83.095	95.783	73.561
174	82270:2230	706	1	2	84.632*	84.078	95.783	73.561
		708	3	2	30.967*	31.349	38.443	20.335
		709	3	2	32.743*	32.131	38.443	20.335
		710	3	2	30.393*	30.327	38.443	20.335
		701	3	2	35.940*	35.684	38.443	20.335
		705	3	2	30.569*	28.851	38.443	20.335
		706	3	2	28.133*	27.932	38.443	20.335
		707	3	2	32.551*	32.868	38.443	20.335
		708	3	2	27.670*	27.642	38.443	20.335
		710	3	2	26.064*	26.104	38.443	20.335
		704	3	3	-1.434*	-1.350	-1.350	-1.350
		705	2	3	40.725*	40.870	40.870	40.870
		706	1	3	48.393*	48.870	48.870	48.870
		701	1	2	76.181*	76.100	95.793	73.507
175	82270:2245	706	1	2	83.814*	83.702	95.793	73.507
		707	1	2	82.986*	82.945	95.793	73.507
		704	1	2	81.694*	81.679	95.793	73.507
		706	1	2	84.031*	84.018	95.793	73.507
		701	2	2	86.811*	86.791	87.609	84.010
		709	3	2	32.100*	31.422	36.596	21.102
		710	3	2	30.179*	30.137	36.596	21.102
		701	3	2	35.918*	34.765	36.596	21.102
		703	3	2	34.126*	30.576	36.596	21.102
		704	3	2	26.890*	26.721	36.596	21.102
		705	3	2	30.373*	27.964	36.596	21.102
		706	3	2	28.089*	27.422	36.596	21.102
		707	3	2	32.536*	32.140	36.596	21.102
		709	3	2	26.685*	26.706	36.596	21.102
176	82270:2300	705	2	3	40.723*	40.650	40.650	40.650
		707	1	2	82.979*	82.905	95.788	73.511
		704	1	2	81.693*	81.669	95.788	73.511
		705	1	2	85.705*	85.717	95.788	73.511
		706	1	2	84.927*	83.978	95.788	73.511
		707	1	2	84.871*	84.788	95.788	73.511
		701	2	2	86.813*	86.831	87.625	83.984
		702	2	2	85.704*	85.557	87.625	83.984
		708	3	2	31.001*	30.638	34.416	19.738

409	3	2	32.721*	33.887	39.416	19.738
410	3	2	30.357*	30.146	39.416	19.738
503	3	2	34.173*	35.705	39.416	19.738
504	3	2	26.699*	27.000	39.416	19.738
505	3	2	30.314*	31.193	39.416	19.738
507	3	2	32.470*	31.611	39.416	19.738
508	3	2	27.664*	27.672	39.416	19.738
509	3	2	26.689*	26.736	39.416	19.738
705	2	3	40.725*	40.770	40.770	40.770
207	1	2	82.985*	83.125	95.749	73.538
304	1	2	83.692*	83.679	95.749	73.538
401	2	2	86.811*	86.781	87.594	84.029
405	2	2	85.339*	85.371	87.594	84.029
408	3	2	30.947*	30.137	43.110	17.599
409	3	2	32.953*	36.232	43.110	17.599
410	3	2	30.319*	29.966	43.110	17.599
501	3	2	35.919*	37.630	43.110	17.599
503	3	2	34.396*	38.524	43.110	17.599
504	3	2	26.925*	27.230	43.110	17.599
505	3	2	30.539*	34.452	43.110	17.599
510	3	2	26.066*	26.034	43.110	17.599
704	3	3	-1.418*	-1.450	-1.450	-1.450
705	7	3	40.732*	40.829	40.820	40.820
207	1	4	82.983*	82.905	95.801	73.581
303	1	2	85.294*	85.615	95.801	73.581
304	1	2	83.694*	83.729	95.801	73.581
305	1	2	85.701*	85.657	95.801	73.581
307	1	2	84.881*	84.836	95.801	73.581
310	2	2	86.213*	86.158	88.671	82.452
401	2	2	86.803*	86.691	88.671	82.452
405	2	2	85.336*	85.301	88.671	82.452
406	2	2	84.168*	82.888	88.671	82.452
407	2	2	84.989*	84.930	88.671	82.452
408	3	2	30.856*	29.977	37.962	20.687
410	3	2	30.262*	29.729	37.962	20.687
503	3	2	34.454*	32.846	37.962	20.687
504	3	2	26.923*	26.661	37.962	20.687
505	3	2	30.582*	29.190	37.962	20.687
507	3	2	32.451*	33.008	37.962	20.687
508	3	4	27.670*	27.682	37.962	20.687
510	3	2	26.064*	26.044	37.962	20.687
601	3	2	25.988*	26.500	37.962	20.687
602	3	2	26.696*	27.025	37.962	20.687
705	2	3	40.843*	42.440	42.440	42.440
706	1	3	48.422*	46.690	46.690	46.690
107	1	2	84.421*	84.647	95.767	73.602
207	1	2	82.991*	83.125	95.767	73.602
303	1	2	85.307*	85.695	95.767	73.602
307	1	2	84.874*	84.748	95.767	73.602
310	2	2	86.197*	85.998	88.575	82.564
404	2	2	85.674*	85.556	88.575	82.564
406	2	2	84.110*	83.038	88.575	82.564
409	3	2	33.046*	31.742	36.269	21.462
501	3	2	35.878*	34.416	36.269	21.462
503	3	2	34.209*	30.048	36.269	21.462
504	3	2	26.888*	26.382	36.269	21.462
505	3	2	30.431*	27.785	36.269	21.462
506	3	2	27.974*	27.432	36.269	21.462
508	3	2	27.672*	27.692	36.269	21.462
509	3	2	26.692*	26.646	36.269	21.462
501	3	2	26.027*	26.520	36.269	21.462
602	3	2	26.719*	27.055	36.269	21.462
704	3	3	-1.409*	-1.350	-1.350	-1.350
706	1	3	48.242*	46.360	46.360	46.360
107	1	2	84.420*	84.507	95.787	73.572

207	1	2	82.989*	82.895	95.787	73.572
303	1	2	85.352*	85.905	95.787	73.572
304	1	2	83.689*	83.619	95.787	73.572
305	1	2	85.693*	85.677	95.787	73.572
401	2	2	86.783*	86.611	88.253	82.943
405	2	2	85.326*	85.271	88.253	82.943
409	3	2	32.959*	31.841	38.384	20.918
410	3	2	30.207*	30.507	38.384	20.918
501	3	2	35.761*	34.695	38.384	20.918
502	3	2	28.157*	29.090	38.384	20.918
505	3	2	30.448*	32.060	38.384	20.918
506	3	2	27.775*	28.362	38.384	20.918
507	3	2	32.478*	32.389	38.384	20.918
509	3	2	26.688*	26.656	38.384	20.918
101	1	2	76.154*	76.180	95.716	73.561
107	1	2	84.424*	84.507	95.716	73.561
207	1	2	82.982*	82.885	95.716	73.561
209	1	2	84.505*	84.430	95.716	73.561
303	1	2	85.358*	85.045	95.716	73.561
408	3	2	30.771*	31.629	42.725	18.382
409	3	2	32.952*	33.627	42.725	18.382
410	3	2	30.231*	30.659	42.725	18.382
501	3	2	35.860*	38.399	42.725	18.382
502	3	2	28.257*	29.439	42.725	18.382
503	3	2	34.284*	37.926	42.725	18.382
505	3	2	30.743*	35.030	42.725	18.382
506	3	2	28.044*	29.061	42.725	18.382
510	3	2	26.053*	25.995	42.725	18.382
101	1	2	76.156*	76.170	95.655	73.541
107	1	2	84.384*	83.737	95.655	73.541
208	1	2	84.754*	84.656	95.655	73.541
303	1	2	85.342*	85.055	95.655	73.541
304	1	2	83.683*	81.639	95.655	73.541
406	2	2	84.013*	84.628	87.662	83.774
409	3	2	32.913*	32.390	38.273	20.653
503	3	2	34.271*	34.458	38.273	20.653
504	3	2	28.836*	27.190	38.273	20.653
505	3	2	30.786*	28.762	38.273	20.653
507	3	2	32.501*	31.649	38.273	20.653
508	3	2	27.676*	27.692	38.273	20.653
601	3	2	26.088*	25.952	38.273	20.653
602	3	2	26.765*	26.619	38.273	20.653
704	3	3	-1.405*	-1.420	-1.420	-1.420
107	1	2	84.315*	83.647	95.643	73.534
206	1	2	83.729*	83.782	95.643	73.534
207	1	2	82.968*	82.875	95.643	73.534
303	1	2	85.317*	85.075	95.643	73.534
306	1	2	84.003*	84.026	95.643	73.534
307	1	2	84.878*	84.668	95.643	73.534
406	2	2	84.061*	84.618	87.679	83.772
409	3	2	32.822*	31.801	36.770	21.061
501	3	2	35.940*	35.005	36.770	21.061
503	3	2	33.999*	30.038	36.770	21.061
504	3	2	29.833*	26.681	36.770	21.061
505	3	2	30.608*	27.556	36.770	21.061
506	3	2	28.085*	27.422	36.770	21.061
507	3	2	32.501*	32.359	36.770	21.061
508	3	2	27.679*	27.712	36.770	21.061
510	3	2	26.050*	26.074	36.770	21.061
601	3	2	26.079*	25.942	36.770	21.061
602	3	2	26.755*	26.609	36.770	21.061
704	3	3	-1.403*	-1.370	-1.370	-1.370
206	1	2	81.730*	83.772	95.698	73.577
303	1	2	85.318*	85.565	95.698	73.577
401	2	2	86.752*	86.611	88.264	82.929

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506	2	2	84.050*	83.458	88.264	82.929
508	3	2	30.927*	31.060	38.779	20.275
502	3	2	28.472*	28.024	38.779	20.275
503	3	2	33.924*	35.237	38.779	20.275
504	3	2	26.823*	26.701	38.779	20.275
507	3	2	32.474*	32.070	38.779	20.275
509	3	2	26.665*	26.676	38.779	20.275
510	3	2	20.049*	20.044	38.779	20.275
601	3	2	26.084*	26.221	38.779	20.275
602	3	2	26.758*	26.896	38.779	20.275
704	3	3	-1.399*	-1.350	-1.350	-1.350
101	1	2	76.160*	76.150	95.674	73.559
206	1	2	83.730*	83.722	95.674	73.559
207	1	2	82.950*	82.905	95.674	73.559
303	1	2	85.336*	85.605	95.674	73.559
306	1	2	84.001*	83.988	95.674	73.559
307	1	2	84.820*	84.878	95.674	73.559
409	2	2	85.816*	85.748	88.573	82.508
402	2	2	85.623*	85.657	88.573	82.508
405	2	2	85.289*	85.161	88.573	82.508
406	2	2	83.977*	82.978	88.573	82.508
409	3	2	32.043*	33.138	41.731	18.791
410	3	2	30.285*	30.412	41.731	18.791
501	3	2	36.013*	37.361	41.731	18.791
502	3	2	28.438*	27.794	41.731	18.791
503	3	2	34.139*	38.056	41.731	18.791
504	3	2	26.844*	27.240	41.731	18.791
505	3	2	30.591*	33.535	41.731	18.791
506	3	2	28.113*	28.871	41.731	18.791
507	3	2	34.474*	32.728	41.731	18.791
508	3	2	27.680*	27.652	41.731	18.791
509	3	2	26.683*	26.666	41.731	18.791
601	3	2	26.092*	26.181	41.731	18.791
602	3	2	26.774*	26.985	41.731	18.791
101	1	2	76.161*	76.170	95.629	73.564
206	1	2	83.729*	83.712	95.629	73.564
207	1	2	82.946*	82.995	95.629	73.564
302	1	2	82.304*	82.300	95.629	73.564
307	1	2	81.811*	84.688	95.629	73.564
309	2	2	85.805*	85.708	88.526	82.493
310	2	2	86.134*	86.088	88.526	82.493
403	2	2	85.976*	85.923	88.526	82.493
404	2	2	85.577*	85.516	88.526	82.493
410	3	2	30.280*	30.089	38.429	20.463
505	3	2	30.554*	28.951	38.429	20.463
506	3	2	28.125*	27.922	38.429	20.463
507	3	2	32.507*	32.988	38.429	20.463
508	3	2	27.678*	27.642	38.429	20.463
509	3	2	26.681*	26.656	38.429	20.463
510	3	2	26.050*	26.074	38.429	20.463
704	3	3	-1.387*	-1.280	-1.280	-1.280

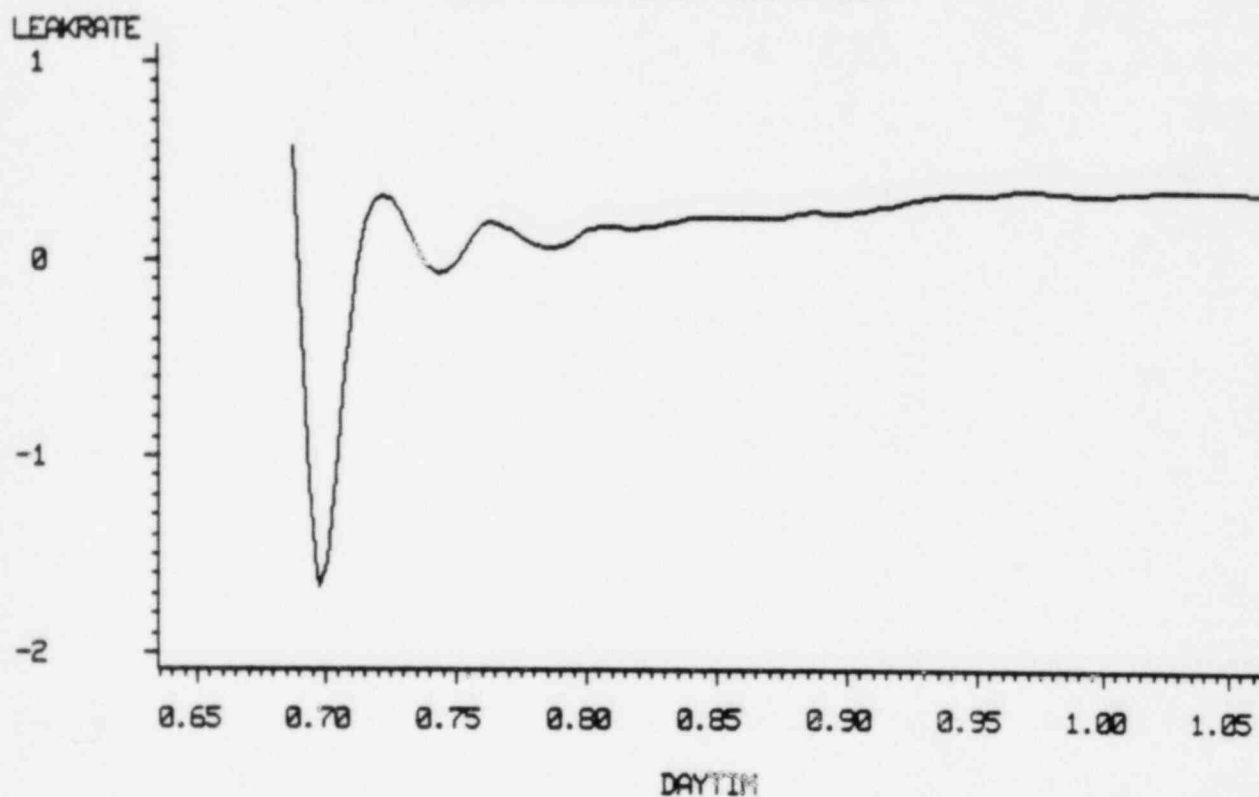
886 82271: 130

LEAK RATE CALCULATED AIR WEIGHTS

RDG	TIME	ELAPSED MINUTES	TOTAL CONTAINMENT	LOWER-CONTAINMENT 29.7% PLDG VOLUME	UPPER-CONTAINMENT 54.1% PLDG VOLUME	ICE-CONDENSER 16.2% PLDG VOLUME
148	82270:1600	0	0.0544407	0.0534649	0.0534207	0.0598832
149	82270:1615	15	0.0544700	0.0534671	0.0534210	0.0598812
150	82270:1630	30	0.0544667	0.0534554	0.0533990	0.0598866
151	82270:1645	45	0.0544490	0.0534525	0.0534278	0.0599130
152	82270:1700	60	0.0544701	0.0534635	0.0534063	0.0598682
153	82270:1715	75	0.0544594	0.0534595	0.0534127	0.0597904
154	82270:1730	90	0.0544689	0.0534456	0.0534066	0.0598922
155	82270:1745	105	0.0544403	0.0534424	0.0534198	0.0599248
156	82270:1800	120	0.0544711	0.0534425	0.0534229	0.0598576
157	82270:1815	135	0.0544563	0.0534446	0.0534197	0.0597726
158	82270:1830	150	0.0544679	0.0534357	0.0534237	0.0598476
159	82270:1845	165	0.0544754	0.0534425	0.0534176	0.0599073
160	82270:1900	180	0.0544673	0.0534427	0.0534239	0.0598303
161	82270:1915	195	0.0544534	0.0534397	0.0534220	0.0597559
162	82270:1930	210	0.0544619	0.0534300	0.0534155	0.0598481
163	82270:1945	225	0.0544613	0.0534280	0.0534010	0.0598962
164	82270:2000	240	0.0544541	0.0534377	0.0534053	0.0594201
165	82270:2015	255	0.0544489	0.0534427	0.0534154	0.0597436
166	82270:2030	270	0.0544568	0.0534289	0.0534068	0.0598479
167	82270:2045	285	0.0544524	0.0534239	0.0533906	0.0598866
168	82270:2100	300	0.0544547	0.0534262	0.0534131	0.0598192
169	82270:2115	315	0.0544365	0.0534366	0.0534059	0.0597114
170	82270:2128	328	0.0544530	0.0534214	0.0534069	0.0598378
171	82270:2145	345	0.0544375	0.0534198	0.0533650	0.0598853
172	82270:2200	360	0.0544303	0.0534324	0.0533613	0.0598290
173	82270:2215	375	0.0544208	0.0534274	0.0533695	0.0597522
174	82270:2230	390	0.0544213	0.0534152	0.0533525	0.0598352
175	82270:2245	405	0.0544311	0.0534136	0.0533585	0.0598782
176	82270:2300	420	0.0544241	0.0534204	0.0533612	0.0598136
177	82270:2315	435	0.0544134	0.0534260	0.0533634	0.0597314
178	82270:2330	450	0.0544307	0.0534274	0.0533676	0.0598201
179	82270:2345	465	0.0544320	0.0534275	0.0533579	0.0598609
180	82271:0	480	0.0544252	0.0534333	0.0533633	0.0597899
181	82271:15	495	0.0544055	0.0534184	0.0533508	0.0597003
182	82271:30	510	0.0544120	0.0534303	0.0533389	0.0597956
183	82271:45	525	0.0544118	0.0534252	0.0533263	0.0598453
184	82271:100	540	0.0544136	0.0534229	0.0533492	0.0597847
185	82271:115	555	0.0544095	0.0534289	0.0533594	0.0597139
186	82271:130	570	0.0544114	0.0534172	0.0533481	0.0597848

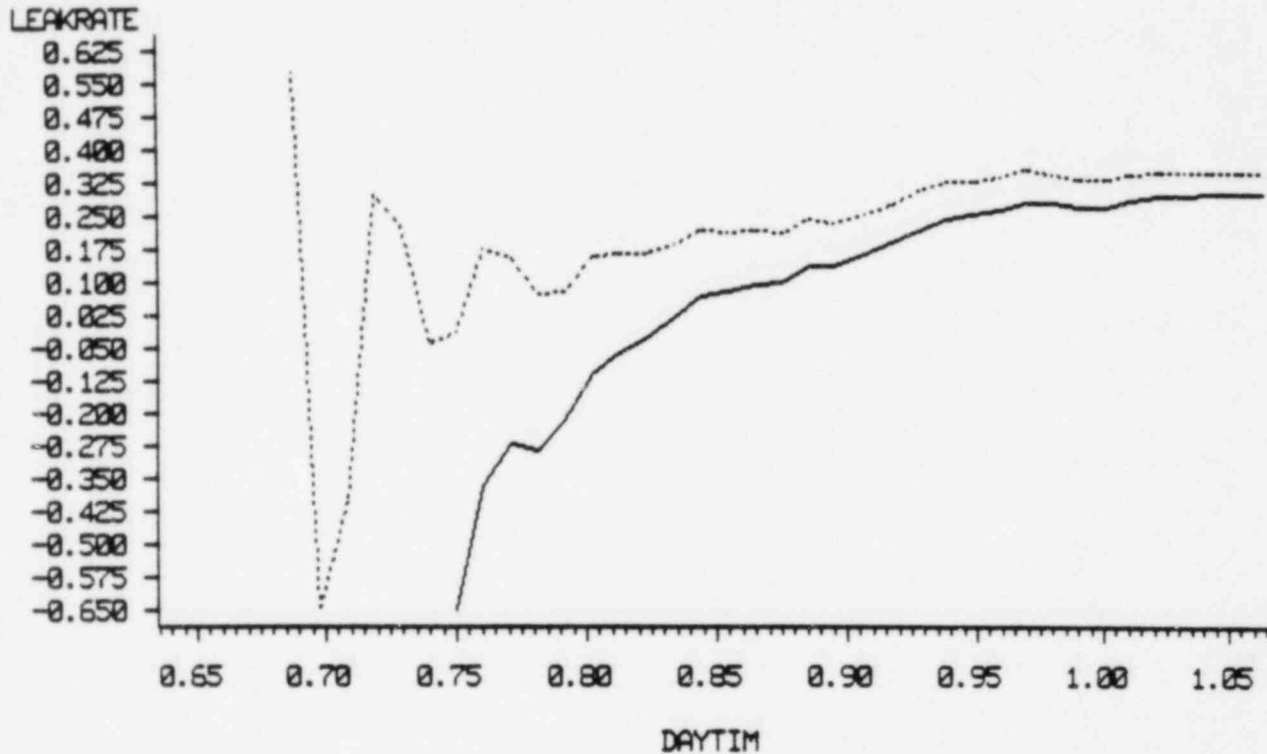
DUKE POWER COMPANY, MCGUIRE 2
MASS PLOT ANALYSIS (OBS)

82270:1600 THRU 82271:0130



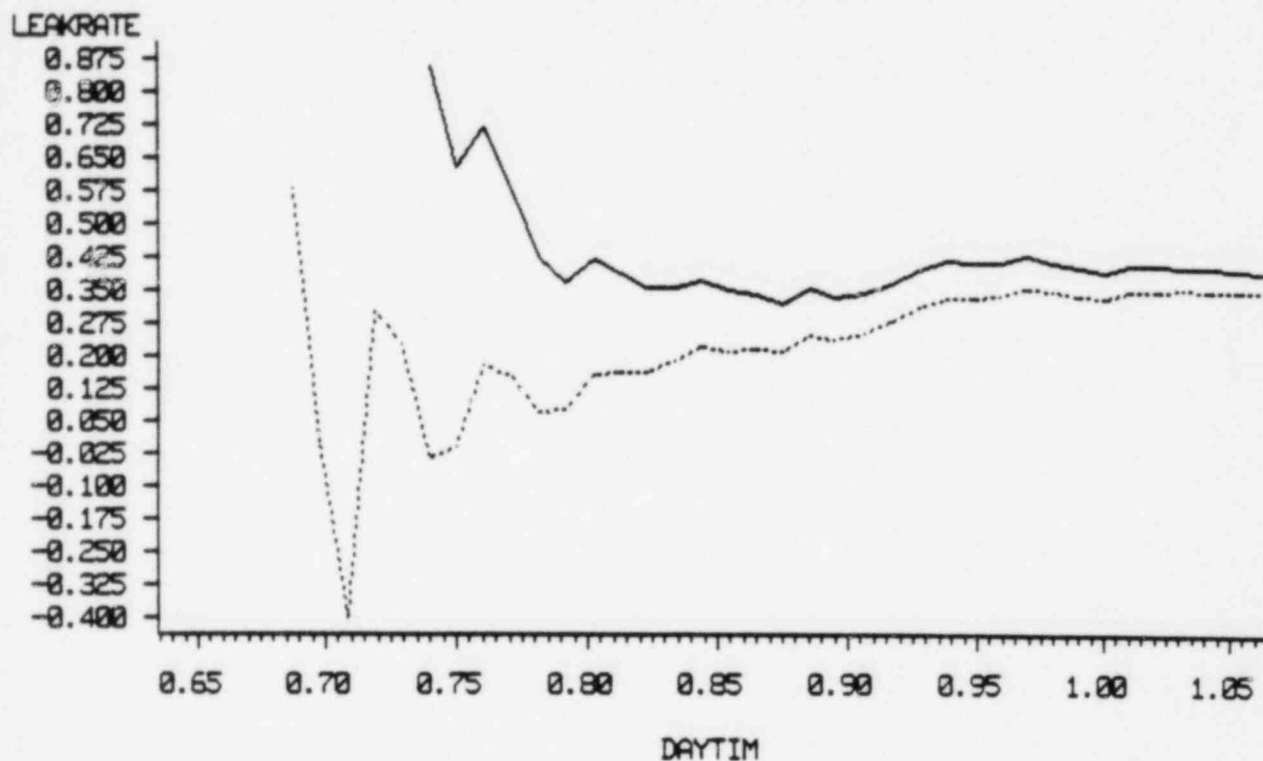
DUKE POWER COMPANY, MCGUIRE 2 MASS PLOT ANALYSIS (MIN, OBS)

82270:1800 THRU 82271:0130



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

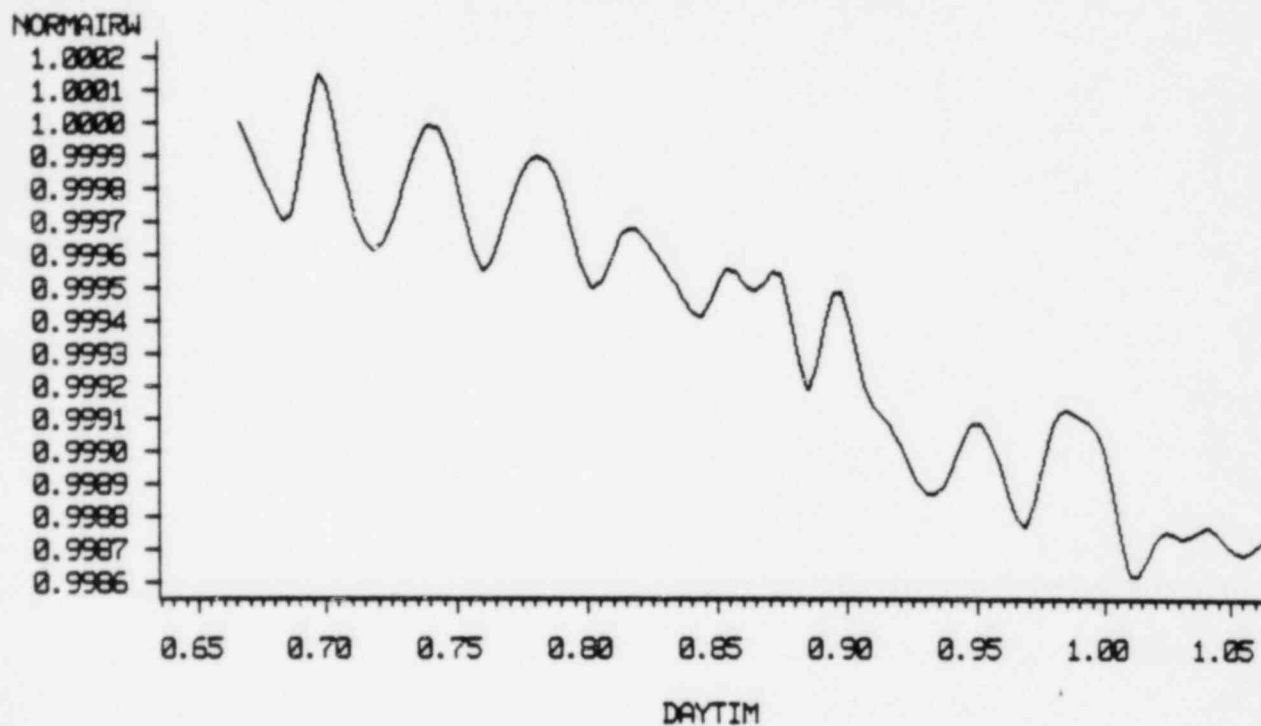
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DUKE POWER COMPANY, MCGUIRE 2

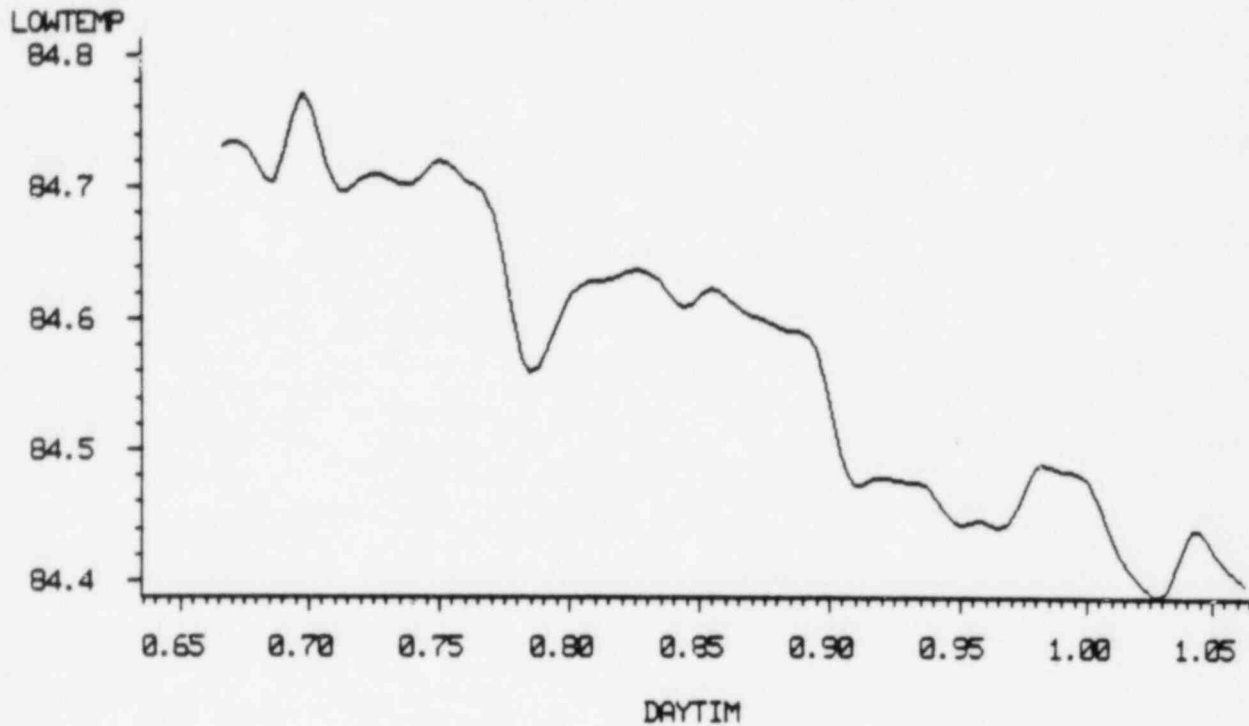
NORMALIZED AIR MASS

82270:1600 THRU 82271:0130



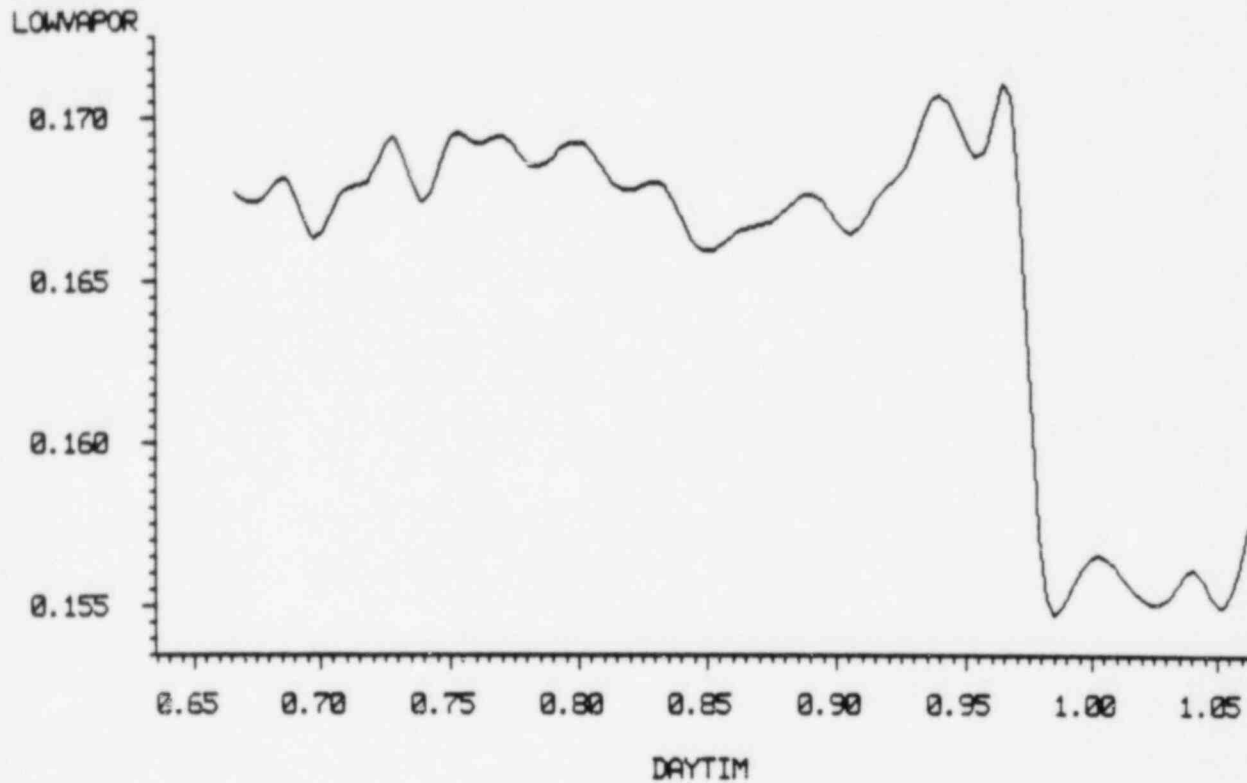
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT TEMPERATURE

82270:1600 THRU 82271:0130



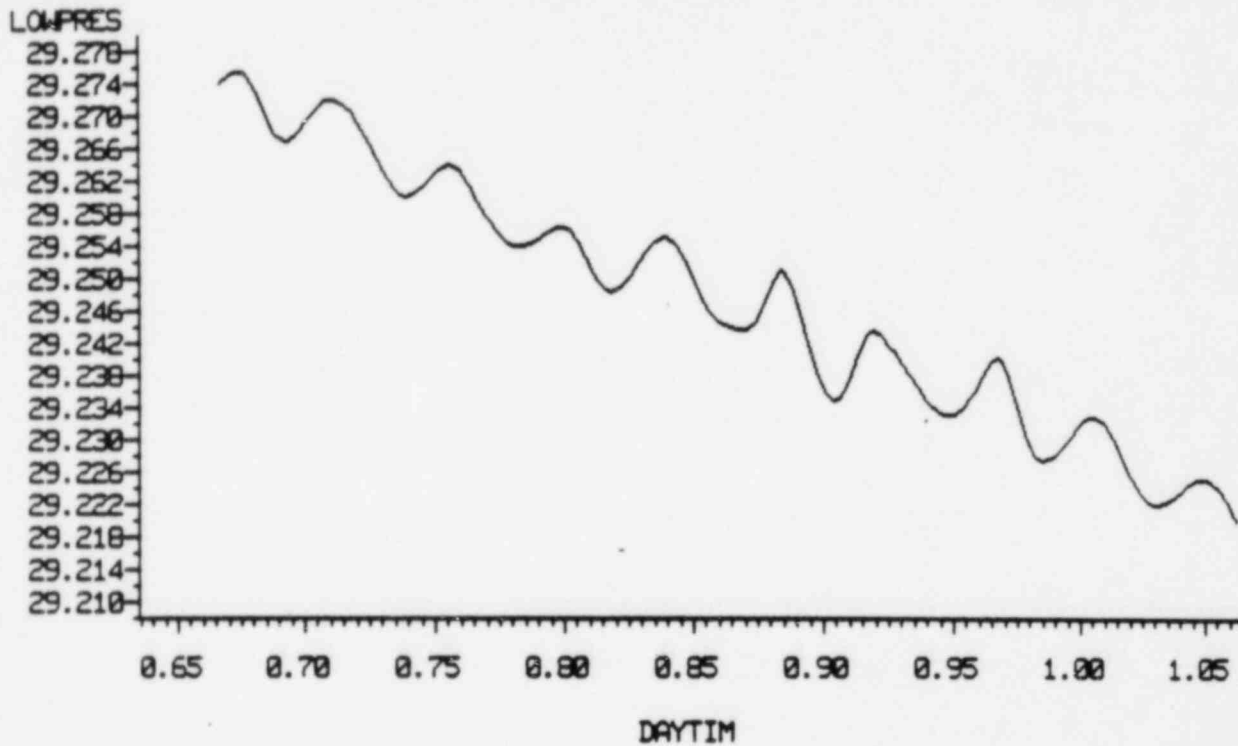
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT VAPOR PRESSURE

82270:1600 THRU 82271:0130



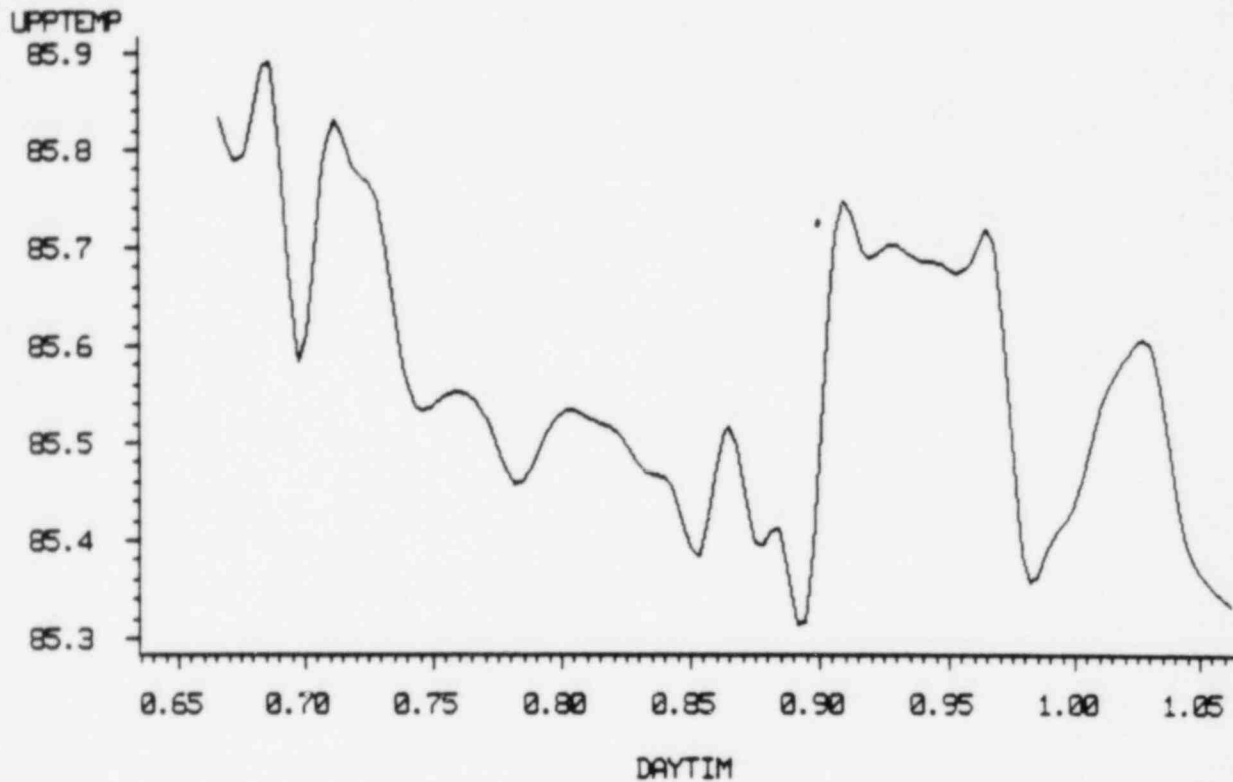
DUKE POWER COMPANY, MCGUIRE 2 LOWER CONTAINMENT PRESSURE

82270:1800 THRU 82271:0130



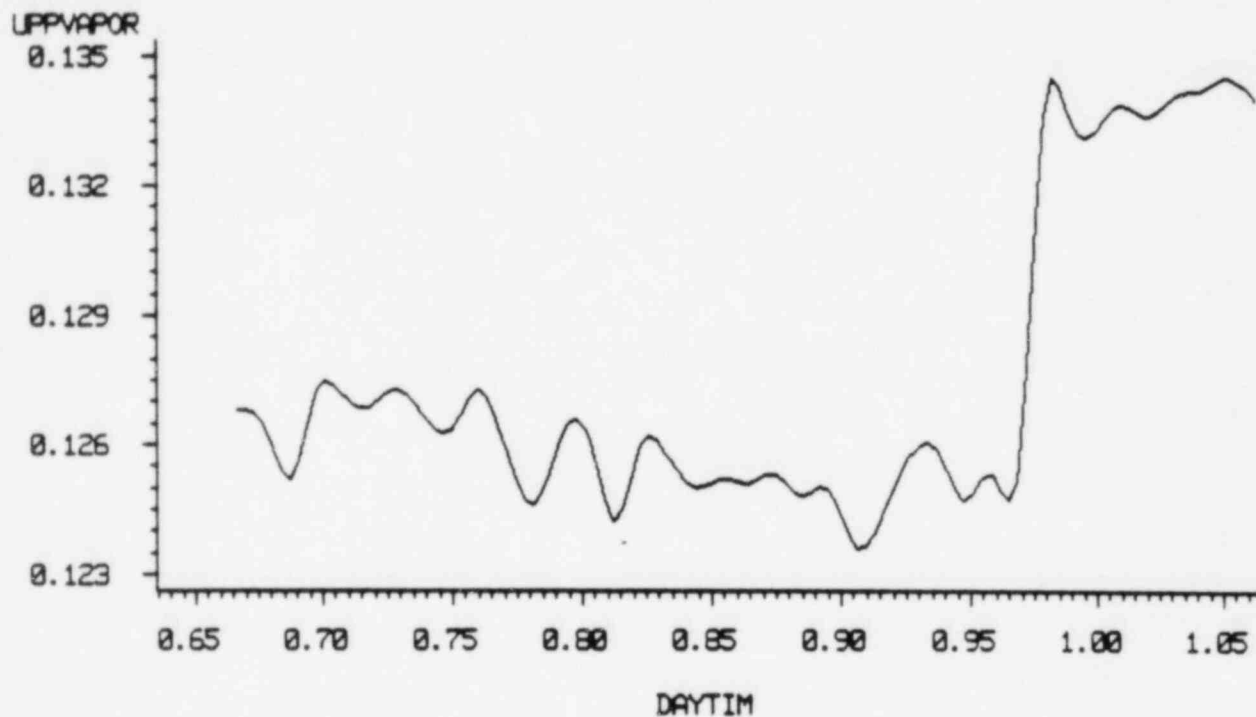
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT TEMPERATURE

82270:1600 THRU 82271:0130



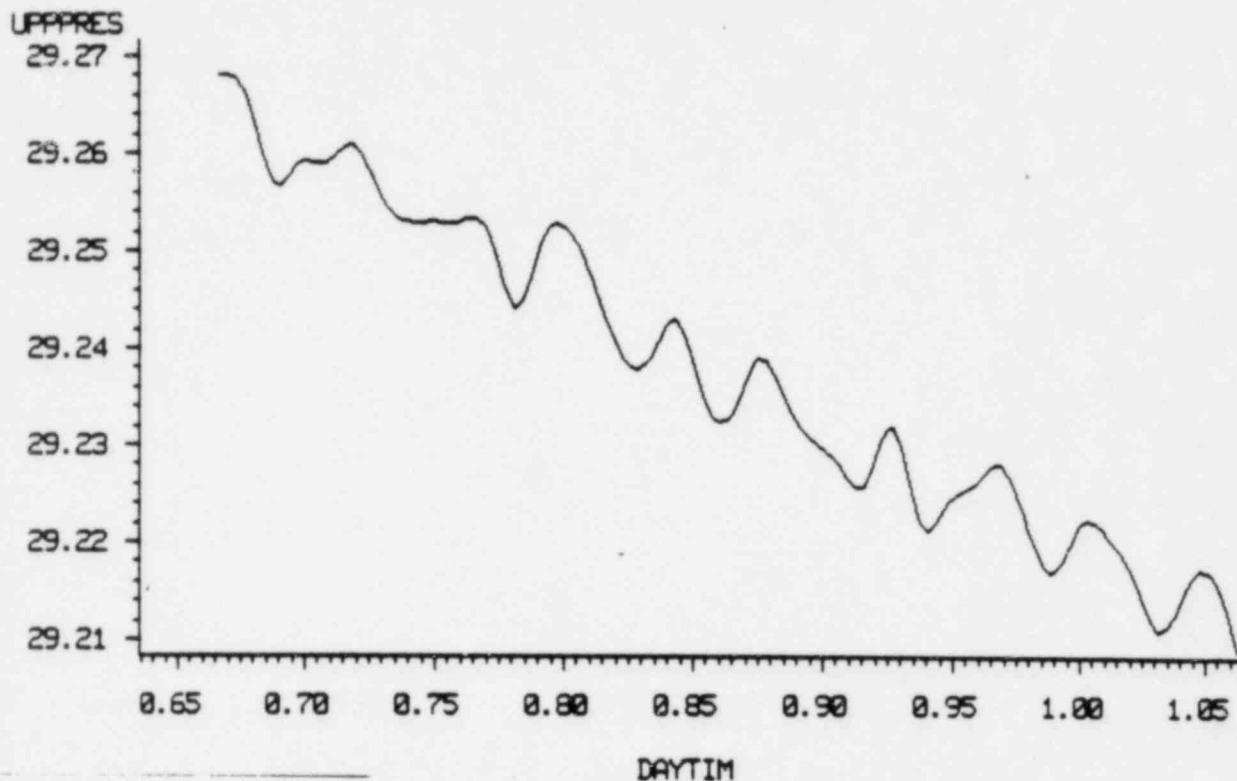
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT VAPOR PRESSURE

82270:1600 THRU 82271:0130



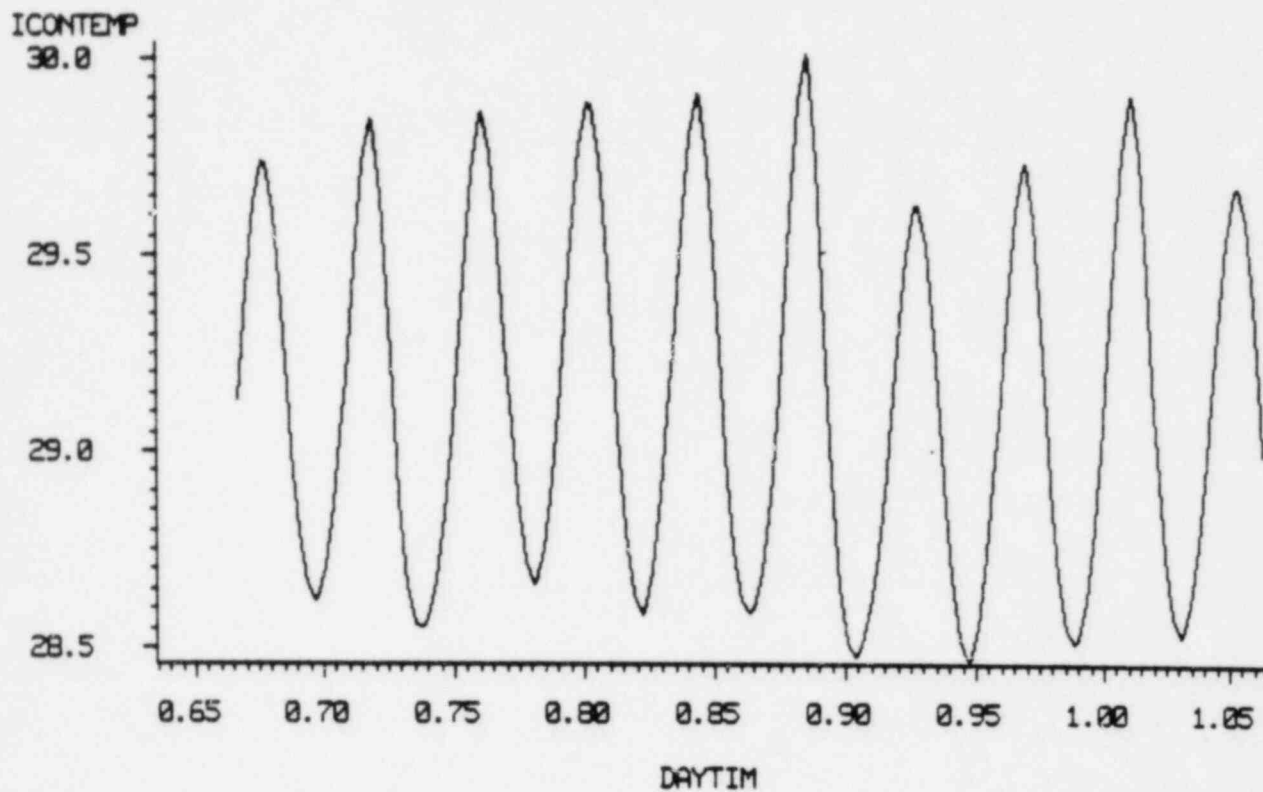
DUKE POWER COMPANY, MCGUIRE 2 UPPER CONTAINMENT PRESSURE

82270:1600 THRU 82271:0130



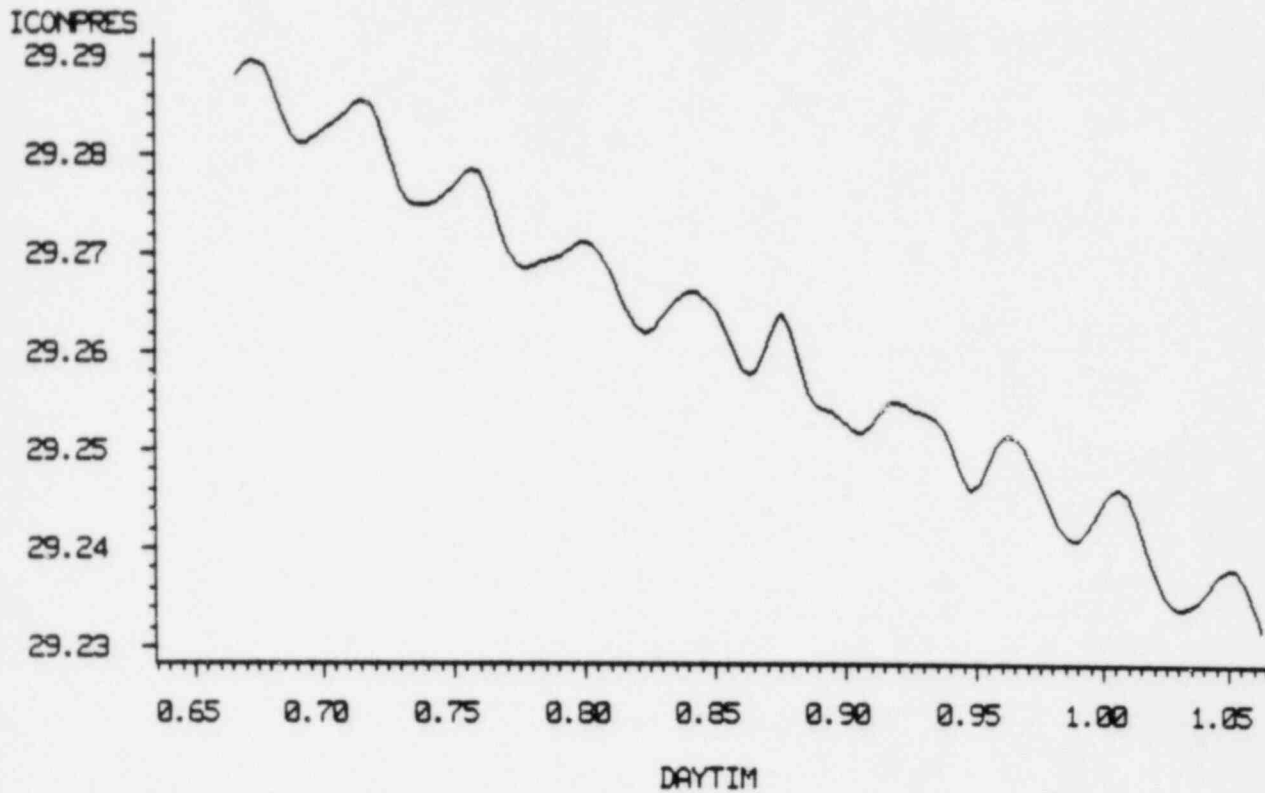
DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER TEMPERATURE

82270:1600 THRU 82271:0130



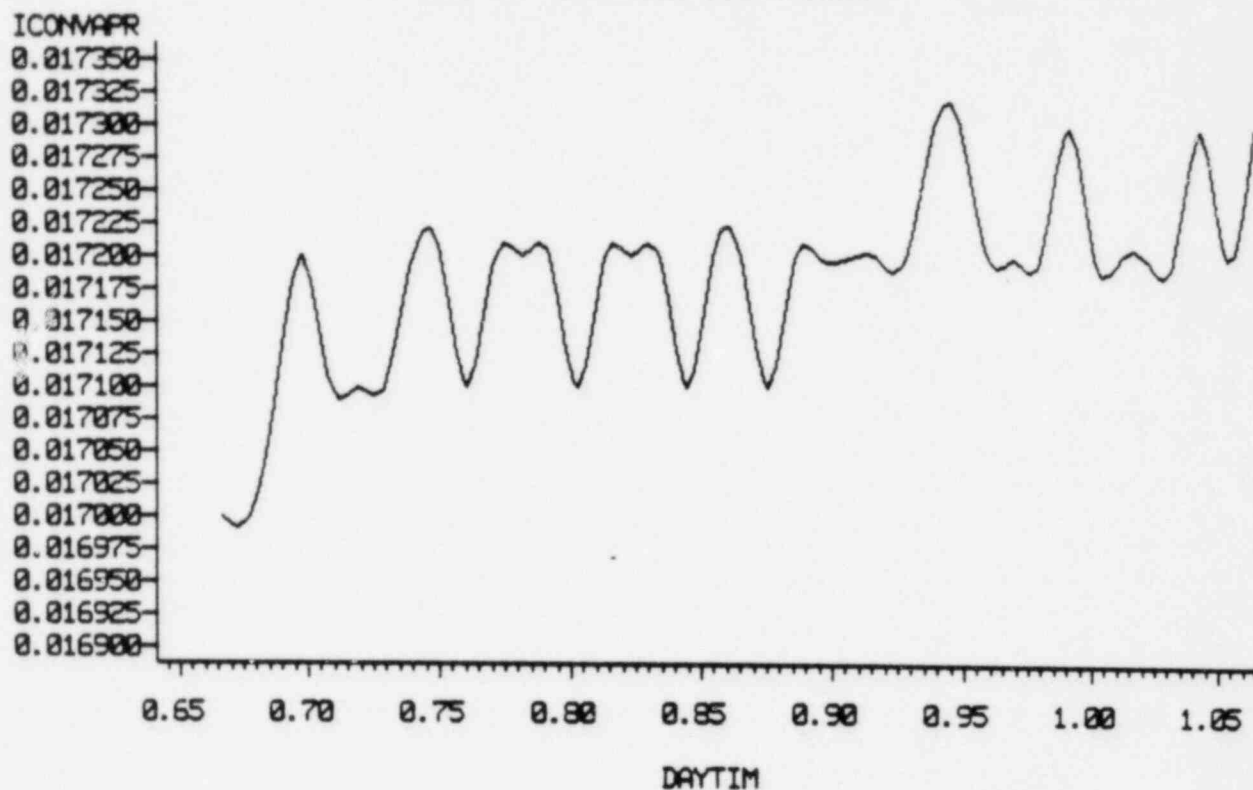
DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER PRESSURE

82270:1800 THRU 82271:0130



DUKE POWER COMPANY, MCGUIRE 2 ICE CONDENSER VAPOR PRESSURE

82270:1600 THRU 82271:0130



148	READING AT 82270:1600										
149	BANK 1	76.470	82.700	82.690	82.660	82.510	84.220	85.470	81.830	85.340	93.590
150	BANK 2	93.630	92.050	92.060	84.410	83.410	83.850	82.950	85.450	84.790	86.040
151	BANK 3	84.490	82.120	85.260	83.300	85.730	84.180	84.410	87.160	86.040	86.300
152	BANK 4	87.220	86.120	86.240	85.830	85.470	84.580	85.330	31.030	32.370	30.310
153	BANK 5	35.850	28.060	35.710	26.930	29.960	28.170	32.140	27.670	26.690	26.110
154	BANK 6	26.180	26.650	133.120	147.110	155.200	159.410	162.800	165.360	169.000	174.000
155	BANK 7	29.288	29.268	29.274	-1.610	41.070	48.410	0.011	0.011	0.010	0.010
156	149 READING AT 82270:1615										
157	BANK 1	76.450	82.630	82.720	82.690	82.510	84.220	85.570	81.820	85.330	93.550
158	BANK 2	93.640	92.000	92.050	84.350	83.400	83.800	83.040	85.510	84.780	86.030
159	BANK 3	84.500	82.090	85.260	83.330	85.730	84.180	84.410	87.070	86.050	86.340
160	BANK 4	87.130	86.020	86.160	85.830	85.510	84.480	85.320	30.950	34.530	30.330
161	BANK 5	37.410	27.800	38.370	27.370	33.260	28.770	32.770	27.620	26.690	26.100
162	BANK 6	26.120	26.680	227.490	240.880	248.050	254.580	258.270	258.270	258.260	258.260
163	BANK 7	29.289	29.266	29.275	-1.580	40.990	48.380	0.012	0.011	0.011	0.011
164	150 READING AT 82270:1630										
165	BANK 1	76.430	82.600	82.710	82.670	82.490	84.150	85.130	81.830	85.320	93.540
166	BANK 2	93.600	91.980	92.050	84.360	83.380	83.840	83.020	85.480	84.780	86.050
167	BANK 3	84.480	82.120	85.150	83.350	85.710	84.160	84.600	87.100	86.010	86.300
168	BANK 4	87.120	86.060	86.170	85.880	85.490	85.080	85.310	31.140	32.170	30.120
169	BANK 5	35.830	28.020	34.130	27.030	28.990	27.950	33.020	27.620	26.690	26.140
170	BANK 6	26.050	26.660	258.170	258.170	258.170	258.170	258.170	258.170	258.170	258.160
171	BANK 7	29.282	29.257	29.268	-1.470	40.750	48.470	0.013	0.012	0.011	0.012

LEAK RATE INSTRUMENT RAW DATA

POINTS:

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151-READING AT 82270:1645

BANK 1	76.440	82.660	82.680	82.670	82.500	84.200	86.100	81.810	85.330	93.510
BANK 2	93.000	91.990	92.030	84.350	83.410	83.890	83.090	85.480	84.770	86.050
BANK 3	84.490	82.110	85.800	83.390	85.750	84.120	84.510	87.110	86.020	86.310
BANK 4	86.990	85.970	86.130	85.870	85.470	82.960	85.280	31.270	31.460	30.230
BANK 5	34.660	27.740	30.440	26.760	28.080	27.350	32.390	27.630	26.710	26.130
BANK 6	26.370	27.050	258.260	258.250	258.250	258.250	258.250	258.250	258.250	258.250
BANK 7	29.282	29.259	29.268	-1.460	41.170	48.180	0.013	0.012	0.012	0.012

152-READING AT 82270:1700

BANK 1	76.390	82.630	82.700	82.670	82.490	84.200	85.470	81.810	85.320	93.480
BANK 2	93.590	91.940	92.020	84.360	83.380	83.790	83.010	85.470	84.770	86.100
BANK 3	84.490	82.100	85.170	83.400	85.720	84.160	84.490	87.080	86.080	86.240
BANK 4	87.040	86.060	86.160	85.820	85.430	84.700	85.300	30.690	33.950	30.040
BANK 5	35.490	27.690	35.940	27.030	31.240	27.730	31.860	27.650	26.690	26.110
BANK 6	26.040	26.700	244.940	258.290	258.440	258.430	258.430	258.430	258.430	258.430
BANK 7	29.284	29.289	29.272	-1.470	41.140	46.410	0.012	0.011	0.011	0.011

153-READING AT 82270:1715

BANK 1	76.400	82.630	82.670	82.650	82.470	84.190	85.430	81.800	85.310	93.450
BANK 2	93.580	91.930	91.990	84.370	83.370	83.800	83.010	85.500	84.760	86.020
BANK 3	84.480	82.130	85.200	83.470	85.720	84.120	84.470	87.070	86.050	86.280
BANK 4	87.100	86.910	86.100	85.830	85.440	84.610	85.290	30.110	36.280	29.730
BANK 5	37.760	27.770	38.790	27.230	34.740	28.170	32.740	27.640	26.620	26.090
BANK 6	26.170	26.710	258.570	258.570	258.580	258.580	258.580	258.580	258.570	258.570
BANK 7	29.285	29.261	29.270	-1.520	41.090	46.470	0.011	0.010	0.011	0.010

154-READING AT 82270:1730

BANK 1	76.420	82.680	82.670	82.670	82.460	84.180	85.470	81.790	85.300	93.420
BANK 2	93.570	91.970	91.980	84.310	83.350	83.780	83.020	85.460	84.750	86.060
BANK 3	84.460	82.130	85.250	83.470	85.740	84.120	84.570	87.040	85.960	86.240
BANK 4	87.050	86.000	86.070	85.790	85.440	84.460	85.260	30.010	32.710	29.650
BANK 5	35.570	28.000	32.550	26.730	29.230	27.920	33.040	27.640	26.710	26.090
BANK 6	26.370	26.760	220.640	236.420	244.160	255.470	258.730	258.730	258.730	258.730
BANK 7	29.277	29.256	29.264	-1.490	41.180	48.680	0.011	0.010	0.010	0.009

155-READING AT 82270:1745

BANK 1	76.410	82.620	82.640	82.630	82.450	84.180	85.880	81.750	85.250	93.380
BANK 2	93.540	91.940	91.960	84.320	83.380	83.760	83.040	85.470	84.730	86.060
BANK 3	84.470	82.110	85.420	83.440	85.700	84.100	84.400	87.040	85.980	86.250
BANK 4	86.950	86.980	86.090	85.740	85.340	83.300	85.220	30.350	31.780	30.030
BANK 5	34.380	28.250	30.160	26.450	27.910	27.330	32.790	27.660	26.670	26.080
BANK 6	26.590	26.950	187.780	204.210	214.280	224.300	232.580	238.460	244.780	255.200
BANK 7	29.275	29.253	29.260	-1.460	41.040	48.370	0.010	0.009	0.009	0.009

156-READING AT 82270:1800

BANK 1	76.390	82.600	82.640	82.590	82.450	84.180	86.080	81.780	85.280	93.360
BANK 2	93.540	91.900	91.930	84.310	83.380	83.780	83.010	85.430	84.730	86.030
BANK 3	84.450	82.120	85.700	83.440	85.720	84.110	84.540	87.020	85.960	86.200
BANK 4	86.960	85.940	86.100	85.760	85.420	83.060	85.220	30.770	31.780	30.410
BANK 5	34.910	29.260	34.740	26.590	32.230	28.200	32.300	27.650	26.660	26.000
BANK 6	26.180	26.660	223.420	236.090	241.650	248.670	252.430	255.540	258.930	258.930
BANK 7	29.277	29.253	29.263	-1.450	40.980	48.080	0.009	0.009	0.008	0.008

BANK RATE INSURMENT BANK DATA

POINTS:

	1	2	3	4	5	6	7	8	9	10
157-READING AT 82270:1810										
BANK 1	76.490	82.540	82.630	82.610	82.440	84.170	85.990	81.770	85.270	93.320
BANK 2	93.610	91.830	91.920	84.310	83.310	83.780	82.850	85.400	84.720	86.020
BANK 3	84.460	82.120	85.600	83.430	85.710	84.120	84.570	87.010	86.000	86.170
BANK 4	86.980	86.850	86.130	85.780	85.680	86.160	85.210	31.420	33.020	30.060
BANK 5	37.780	29.430	37.760	76.970	34.740	29.050	32.640	27.640	26.710	26.040
BANK 6	26.370	27.060	186.460	176.900	190.550	202.640	215.350	226.3	236.430	244.670
BANK 7	29.270	29.253	29.263	-1.440	-11.180	40.640	0.009	0.000	0.008	0.008

158-READING AT 82270:1830										
BANK 1	76.390	82.590	82.630	82.610	82.430	84.140	85.950	81.760	85.250	93.290
BANK 2	93.490	91.870	91.890	84.200	83.270	83.750	82.920	85.440	84.700	86.050
BANK 3	84.420	82.060	85.650	83.440	85.690	84.010	84.470	86.970	85.970	86.170
BANK 4	86.970	86.060	86.060	85.690	85.340	83.220	85.170	31.600	32.080	30.210
BANK 5	36.770	29.320	33.050	27.240	28.790	28.160	32.700	27.660	26.700	26.110
BANK 6	26.430	27.010	144.490	164.370	177.470	190.230	201.380	213.910	222.140	235.200
BANK 7	29.270	29.262	29.267	-1.380	40.660	40.680	0.007	0.007	0.006	0.006

159-READING AT 82270:1845										
BANK 1	76.240	82.450	82.410	82.510	82.330	83.600	85.540	81.700	84.600	93.260
BANK 2	93.430	91.830	91.850	84.250	83.200	83.740	82.910	85.290	84.640	85.610
BANK 3	84.420	82.030	85.620	83.440	85.640	83.990	84.490	86.840	85.840	86.070
BANK 4	86.970	85.750	85.950	85.650	85.200	83.380	85.030	30.680	31.770	30.320
BANK 5	35.870	28.320	31.120	26.660	27.480	27.300	32.430	27.600	26.580	26.010
BANK 6	26.310	27.000	202.650	209.180	211.760	211.160	212.160	208.610	204.410	206.180
BANK 7	29.269	29.214	29.254	-1.440	40.610	48.530	-0.011	-0.011	-0.010	-0.012

160-READING AT 82270:1900										
BANK 1	76.340	82.490	82.460	82.520	82.350	83.340	85.290	81.670	84.260	93.260
BANK 2	93.440	91.800	91.880	84.270	83.280	83.720	82.750	85.130	84.670	85.500
BANK 3	84.510	82.130	85.620	83.620	85.650	84.040	84.740	86.960	85.950	86.130
BANK 4	86.970	85.870	86.060	85.640	85.230	83.270	85.150	30.890	32.540	30.470
BANK 5	36.430	28.120	36.280	26.980	26.250	27.950	32.100	27.680	26.690	26.100
BANK 6	26.420	26.950	143.150	211.9	221.040	232.920	239.310	248.760	255.710	259.160
BANK 7	29.270	29.251	29.255	-1.440	40.930	48.600	0.006	0.005	0.004	0.006

161-READING AT 82270:1915										
BANK 1	76.370	82.620	82.460	82.530	82.400	83.360	85.420	81.730	84.210	93.290
BANK 2	93.480	91.870	91.900	84.310	83.250	83.750	82.950	85.100	84.690	85.500
BANK 3	84.520	82.180	85.660	83.740	85.690	84.010	84.950	86.980	85.960	86.030
BANK 4	86.980	85.890	86.140	85.700	85.330	83.340	85.180	30.870	34.970	30.420
BANK 5	37.880	27.720	38.600	27.330	34.040	28.800	32.850	27.640	26.690	26.100
BANK 6	26.310	26.970	174.290	193.360	203.920	212.200	223.610	229.390	236.350	244.390
BANK 7	29.271	29.252	29.256	-1.470	40.940	48.640	0.008	0.008	0.007	0.008

162-READING AT 82270:1930										
BANK 1	76.380	82.610	82.470	82.560	82.390	83.320	85.410	81.720	84.180	93.260
BANK 2	93.470	91.850	91.900	84.340	83.360	83.790	83.080	85.110	84.670	85.480
BANK 3	84.480	82.200	85.680	83.760	85.690	84.050	84.720	86.970	85.910	86.180
BANK 4	86.880	85.850	86.030	85.670	85.360	83.390	85.160	31.210	32.210	30.280
BANK 5	36.010	26.210	33.110	27.070	29.330	27.880	33.000	27.640	26.690	26.150
BANK 6	26.280	26.980	184.000	201.490	209.600	217.720	226.530	230.560	237.220	246.420
BANK 7	29.266	29.246	29.250	-1.360	40.540	48.480	0.010	0.009	0.008	0.008

LEAF RATE INSTRUMENT RAW DATA

POINTS:

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160 READING AT 82270:2115

BANK 1	76.320	81.560	82.460	82.320	82.380	83.150	85.630	81.670	83.930	93.270
BANK 2	93.400	91.200	91.830	84.260	83.280	83.740	82.820	84.940	84.630	85.360
BANK 3	84.430	82.300	85.850	83.400	85.620	84.120	84.740	86.950	85.930	86.170
BANK 4	86.870	85.820	85.900	85.640	85.270	82.630	85.100	31.410	33.490	30.580
BANK 5	36.990	29.580	38.810	24.400	34.940	28.930	32.620	27.690	26.720	26.060
BANK 6	26.450	27.210	231.520	247.890	258.000	258.000	257.990	257.990	257.990	257.990
BANK 7	29.256	29.233	29.251	-1.440	40.660	48.380	0.014	0.013	0.012	0.012

170 READING AT 82270:2128

BANK 1	76.380	82.600	82.400	82.470	82.350	83.120	85.600	81.660	83.900	93.230
BANK 2	93.330	91.810	91.810	84.270	83.230	83.670	82.760	84.990	84.630	85.340
BANK 3	84.430	82.330	85.820	84.450	85.620	84.110	84.770	86.900	85.920	86.160
BANK 4	86.950	85.750	85.920	85.640	85.280	82.030	85.080	31.080	32.170	30.140
BANK 5	35.780	28.900	32.660	27.220	28.630	28.150	32.040	27.700	26.720	26.110
BANK 6	26.010	26.480	244.720	250.120	251.230	250.940	251.010	252.240	252.200	252.840
BANK 7	29.254	29.231	29.232	-1.460	40.710	48.380	0.014	0.013	0.013	0.012

171 READING AT 82270:2135

BANK 1	76.310	82.570	82.350	82.460	82.340	83.100	84.230	81.650	83.850	93.220
BANK 2	93.300	91.800	91.800	84.260	83.180	83.990	82.960	84.960	84.610	85.320
BANK 3	84.410	82.360	84.900	84.780	85.590	84.100	84.750	86.940	85.940	86.020
BANK 4	87.010	85.730	85.950	85.640	85.300	85.170	85.120	30.810	31.730	30.170
BANK 5	34.550	28.460	30.000	26.650	27.560	27.320	32.550	27.740	26.720	26.110
BANK 6	25.870	26.470	267.930	267.930	267.930	267.930	257.930	257.930	257.920	257.920
BANK 7	29.252	29.229	29.235	-1.430	40.410	48.210	0.013	0.013	0.013	0.013

172 READING AT 82270:2202

BANK 1	76.320	82.540	82.360	82.470	82.310	83.080	84.140	81.640	83.830	93.170
BANK 2	93.350	91.800	91.770	84.250	83.250	83.680	82.820	84.920	84.620	85.310
BANK 3	84.410	82.320	84.850	83.820	85.620	84.080	84.840	86.910	85.900	86.080
BANK 4	87.010	85.800	85.950	85.550	85.240	85.180	85.130	30.960	34.430	30.270
BANK 5	37.270	27.750	37.970	27.230	33.320	28.570	32.670	27.670	26.700	26.100
BANK 6	25.800	26.460	257.830	257.830	257.830	257.830	257.830	257.830	257.830	257.830
BANK 7	29.254	29.232	29.241	-1.450	40.870	48.530	0.014	0.013	0.013	0.013

173 READING AT 82270:2215

BANK 1	76.320	82.540	82.360	82.470	82.310	83.080	84.140	81.640	83.830	93.170
BANK 2	93.350	91.800	91.770	84.250	83.250	83.680	82.820	84.920	84.620	85.310
BANK 3	84.410	82.320	84.850	83.820	85.620	84.080	84.840	86.910	85.900	86.080
BANK 4	87.010	85.800	85.950	85.550	85.240	85.180	85.130	30.960	34.430	30.270
BANK 5	37.270	27.750	37.970	27.230	33.320	28.570	32.670	27.670	26.700	26.100
BANK 6	25.800	26.460	257.830	257.830	257.830	257.830	257.830	257.830	257.830	257.830
BANK 7	29.254	29.232	29.241	-1.450	40.870	48.530	0.014	0.013	0.013	0.013

174 READING AT 82270:2238

BANK 1	76.260	82.540	82.370	82.460	82.300	83.070	84.140	81.640	83.820	93.130
BANK 2	93.340	91.750	91.760	84.240	83.210	83.720	82.980	84.880	84.600	85.270
BANK 3	84.390	82.310	84.810	83.760	85.650	84.090	84.820	86.900	85.900	86.100
BANK 4	86.930	85.800	85.930	85.580	85.210	85.150	85.100	31.230	32.080	30.120
BANK 5	35.660	28.050	33.900	27.040	28.630	27.780	32.870	27.660	26.700	26.140
BANK 6	25.780	26.480	145.860	153.980	156.580	158.700	160.100	161.780	161.650	161.870
BANK 7	29.252	29.232	29.230	-1.450	40.870	48.870	0.014	0.014	0.013	0.013

LEAK RATE INSTRUMENT DATA

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

175 READING AT 02270:2305

BANK 1	76.240	82.520	82.350	82.430	82.290	83.060	84.070	81.630	83.800	93.130
BANK 2	93.330	91.780	91.740	84.240	83.200	83.600	82.830	84.850	84.620	85.310
BANK 3	84.350	82.310	84.820	83.770	85.620	84.080	84.810	86.860	85.880	86.090
BANK 4	86.400	85.810	85.860	82.570	85.240	85.130	85.080	31.020	31.370	29.920
BANK 5	34.740	27.740	30.590	26.760	27.040	27.270	32.140	27.680	26.730	26.110
BANK 6	26.740	26.480	140.720	149.530	150.910	153.130	154.730	154.570	155.030	156.550
BANK 7	29.240	29.224	29.233	1.340	40.650	48.750	0.014	0.013	0.013	0.013

176 READING AT 02270:2308

BANK 1	76.240	82.520	82.330	82.440	82.290	83.060	84.090	81.610	83.790	93.110
BANK 2	93.320	91.750	91.750	84.220	83.170	83.660	82.790	84.860	84.610	85.230
BANK 3	84.390	82.320	84.840	83.760	85.650	84.040	84.900	86.860	85.850	86.120
BANK 4	86.940	85.870	85.930	85.600	85.250	85.160	85.100	30.570	33.840	29.930
BANK 5	35.420	27.440	35.740	26.980	31.160	27.580	31.610	27.690	26.760	26.100
BANK 6	25.770	26.520	252.940	257.190	257.790	257.790	257.790	257.790	257.790	257.790
BANK 7	29.240	29.220	29.230	1.320	40.670	48.730	0.014	0.014	0.013	0.014

177 READING AT 02270:2315

BANK 1	76.280	82.550	82.330	82.440	82.280	83.030	83.970	81.620	83.770	93.070
BANK 2	93.350	91.770	91.740	84.190	83.190	83.590	83.010	84.840	84.590	85.200
BANK 3	84.360	82.330	84.900	83.770	85.640	84.040	84.800	86.880	85.910	86.120
BANK 4	86.890	85.730	85.910	85.500	85.300	85.150	85.100	30.020	36.190	29.740
BANK 5	37.610	27.460	30.570	27.210	34.450	20.020	32.500	27.690	26.720	26.070
BANK 6	26.940	26.580	203.340	209.260	211.760	213.640	214.460	214.420	214.900	215.090
BANK 7	29.250	29.220	29.240	1.450	40.820	48.800	0.015	0.014	0.014	0.014

178 READING AT 02270:2330

BANK 1	76.280	82.550	82.300	82.420	82.270	83.020	84.950	81.620	83.760	93.070
BANK 2	93.360	91.750	91.720	84.220	83.180	83.620	82.790	84.860	84.610	85.230
BANK 3	84.350	82.330	85.500	83.820	85.590	84.060	84.750	86.860	85.860	86.060
BANK 4	86.800	85.660	85.900	85.620	85.230	83.030	85.050	29.860	32.620	29.490
BANK 5	35.810	27.890	32.870	26.640	29.170	27.900	33.010	27.700	26.720	26.080
BANK 6	26.570	27.010	211.540	224.210	233.720	240.230	247.870	253.680	257.800	257.800
BANK 7	29.244	29.222	29.230	1.350	42.440	46.690	0.015	0.014	0.013	0.014

179 READING AT 02270:2340

BANK 1	76.310	82.560	82.350	82.410	82.250	83.010	84.830	81.610	83.750	93.050
BANK 2	93.280	91.740	91.710	84.230	83.210	83.540	83.010	84.780	84.580	85.170
BANK 3	84.360	82.330	85.580	83.770	85.620	84.070	84.660	86.860	85.850	85.900
BANK 4	86.900	85.750	85.900	85.540	85.230	83.180	85.040	30.280	31.690	29.810
BANK 5	34.390	28.060	30.060	26.360	27.760	27.280	32.640	27.710	26.670	26.080
BANK 6	26.590	27.040	213.190	231.450	242.700	254.390	257.820	257.820	257.820	257.820
BANK 7	29.241	29.217	29.228	1.350	42.400	46.360	0.015	0.014	0.014	0.014

180 READING AT 02271:0000

BANK 1	76.290	82.500	82.310	82.400	82.250	82.980	84.750	81.600	83.740	93.020
BANK 2	93.280	91.730	91.730	84.200	83.160	83.610	82.780	84.900	84.580	85.230
BANK 3	84.360	82.350	85.790	83.710	85.560	84.050	84.710	86.880	85.840	85.940
BANK 4	86.720	85.750	85.920	85.550	85.200	83.580	85.060	30.760	31.780	30.310
BANK 5	34.670	29.000	34.750	26.500	32.050	28.210	32.390	27.700	26.680	26.070
BANK 6	26.420	26.970	257.900	257.900	257.900	257.890	257.900	257.890	257.890	257.890
BANK 7	29.245	29.222	29.232	1.420	42.390	46.570	0.015	0.014	0.014	0.014

LEAD RAIN INSTRUMENT DATA

POINTS:	1	2	3	4	5	6	7	8	9	10
181-READING AT 82271: 1.4										
BANK 1	76.320	82.490	82.250	82.380	82.270	82.980	84.690	81.590	83.720	92.990
BANK 2	93.270	91.760	91.690	84.710	83.170	83.550	82.770	84.880	84.530	85.220
BANK 3	84.330	82.320	84.930	83.790	85.610	84.050	84.710	86.820	85.860	86.060
BANK 4	86.850	85.710	85.900	85.540	85.240	84.220	85.040	31.510	33.580	30.470
BANK 5	34.380	29.340	37.970	26.840	35.030	28.910	32.560	27.690	26.720	26.030
BANK 6	26.040	26.720	250.660	257.980	257.980	257.980	257.980	257.980	257.980	257.970
BANK 7	29.245	29.221	29.232	1.410	42.490	46.510	0.015	0.014	0.014	0.014
182-READING AT 82271: 3.4										
BANK 1	76.310	82.480	82.280	82.390	82.260	82.950	83.920	81.580	83.700	92.950
BANK 2	93.260	91.700	91.660	84.180	83.150	83.580	82.860	84.780	84.550	85.220
BANK 3	84.320	82.340	84.940	83.730	85.600	84.020	84.670	86.780	85.830	86.000
BANK 4	86.910	85.670	85.890	85.550	85.210	84.770	85.050	31.050	32.340	30.140
BANK 5	34.370	29.210	32.480	27.170	26.740	28.150	32.650	27.710	26.710	26.090
BANK 6	26.020	26.600	223.030	234.830	239.920	246.170	252.930	254.480	258.100	258.090
BANK 7	29.237	29.217	29.222	1.410	42.4	46.360	0.014	0.014	0.013	0.013
183-READING AT 82271: 4.6										
BANK 1	76.310	82.480	82.300	82.370	82.240	82.940	83.830	81.580	83.670	92.940
BANK 2	93.250	91.680	91.650	84.160	83.170	83.600	82.760	84.760	84.530	85.180
BANK 3	84.310	82.320	84.960	83.730	85.590	84.090	84.580	86.820	85.800	86.060
BANK 4	86.840	85.710	85.920	85.550	85.200	84.760	85.030	30.930	31.750	30.070
BANK 5	34.480	28.420	30.050	26.660	27.530	27.270	32.360	27.730	26.710	26.110
BANK 6	26.010	26.590	233.880	244.630	250.590	256.680	258.240	256.230	258.230	258.230
BANK 7	29.254	29.211	29.222	1.370	42.530	46.370	0.014	0.013	0.013	0.013
184-READING AT 82271: 1.6										
BANK 1	76.310	82.480	82.240	82.370	82.230	82.940	84.530	81.570	83.660	92.930
BANK 2	93.240	91.730	91.650	84.170	83.170	83.670	82.850	84.830	84.540	85.140
BANK 3	84.310	82.320	85.460	83.720	85.580	84.060	84.780	86.870	85.880	85.990
BANK 4	86.740	85.670	85.920	85.570	5.160	83.600	85.020	31.540	31.480	30.050
BANK 5	35.830	27.930	35.270	26.600	0.000	27.820	32.070	27.700	26.700	26.080
BANK 6	26.290	26.880	223.350	242.480	255.460	258.330	258.330	258.330	258.320	258.320
BANK 7	29.236	29.215	29.224	1.350	42.540	46.510	0.013	0.012	0.012	0.012
185-READING AT 82271: 1.5										
BANK 1	76.290	82.440	82.250	82.370	82.220	82.920	84.490	81.560	83.650	92.880
BANK 2	93.240	91.680	91.630	84.140	83.120	83.620	82.690	84.790	84.530	85.140
BANK 3	84.300	82.330	85.490	83.680	85.580	84.050	84.790	86.830	85.790	86.060
BANK 4	86.760	85.770	85.890	85.540	85.090	83.120	85.010	31.130	33.090	30.210
BANK 5	37.340	27.700	38.100	27.220	33.530	28.720	32.730	27.670	26.690	26.080
BANK 6	26.250	26.970	228.080	249.600	258.250	258.250	258.250	258.250	258.250	258.240
BANK 7	29.238	29.217	29.225	1.390	42.600	46.320	0.013	0.012	0.012	0.012
186-READING AT 82271: 1.5										
BANK 1	76.310	82.440	82.230	82.330	82.190	82.900	84.360	81.550	83.630	92.850
BANK 2	93.200	91.680	91.610	84.140	83.090	83.610	82.880	84.760	84.490	85.120
BANK 3	84.280	82.320	85.500	83.650	85.560	84.050	84.600	86.790	85.750	85.990
BANK 4	86.730	85.700	85.860	85.500	85.160	83.080	84.990	31.140	32.030	29.870
BANK 5	35.830	26.040	33.990	26.940	28.930	27.770	32.990	27.600	26.680	26.110
BANK 6	26.230	26.940	223.160	241.640	254.510	258.070	258.070	258.070	258.070	258.070
BANK 7	29.236	29.209	29.220	1.400	42.510	46.720	0.014	0.013	0.013	0.013

APPENDIX C

MINUTES OF MAJOR TEST EVENTS

APPENDIX C

MINUTES OF MAJOR TEST EVENTS

<u>DATE/TIME</u>	<u>COMMENTS</u>
8/26/82 0940	Began Visual Inspection of Containment Vessel and Reactor Building as required by procedure to identify discrepancies which must be cleared up before ILRT.
9/21/82 1340	Connected rented air compressor from Ingersoll-Rand to Instrument Air connection. Started compressor and field, checked for proper operation. All discrepancies stated in log item 8/26/82 have been cleared. All test instrumentation installed and verified to be in proper working order. Personnel airlocks not completed per their test procedure. However, air locks were unofficially leak-tested to ensure a leak tight barrier for the ILRT. Airlocks will be tested after ILRT.
9/23/82 1550	Verified flow paths for pressurization. Made announcement for all personnel to evacuate Containment Vessel. Began pressurization of Containment Vessel.
9/24/82 1415	Reached 10 PSIG Plateau. Stopped pressurization for vessel inspection to determine any damage occurring and remove any pressurized vessels not removed earlier. Ice Condenser AHU's changed to defrost 30 minutes every 3 hours.
9/25/82 0701	Reached Structural Integrity Test pressure (16.97 PSIG) and stopped pressurization.
9/25/82 0715	Began depressurizing to test pressure through unit vent.
9/25/82 1130	Stopped depressurization at approximately 15.1 PSIG. Inspection team entered vessel for another look before beginning 24 hour test. Decided to take exception to penetration M-359 (Air to Upper Reactor Door inner seal) in case another entrance was required into vessel.
9/25/82 1959	Discovered problem with computer program. Program does not seem to be using calibrated curves of RTD's. Problem appears to be wrong formulated calibration data. Data is being reformulated for input.
9/25/82 2230	Temperature stabilized. Declared 24 hour ILRT underway.
9/26/82 0720	Dew Point hygrometers began fluctuating. Investigation revealed hygrometers had to be switched to calibrate position which simply heated up aspirator to remove moisture or ice. After this, all aspirator/hygrometers functioned properly. Decided to determine if Ice Condenser dewpoint hygrometer was right by calculations. It showed a negative dewpoint. (See attachment #1 to test log.)

<u>DATE/TIME</u>	<u>COMMENTS</u>
9/27/82 0100	All instrumentation and computer program working properly. Continuing with test.
9/27/82 1445	24 hour ILRT declared successful.
9/27/82 1600	Begin supplemental verification test.
9/27/82 1159	Imposed leak rate not corresponding with calculated rate. Investigation reveals problem with the pressure the Turbine Flowmeter sees. Problem cleared up. (See attachments #2 and 3 to test log).
9/28/82 0230	Declared supplemental verification test successful.
9/28/82 0300	Began depressurization through pressure relief valve.
9/29/82 0800	Pressure down to 0.0 PSIG. Entry into containment vessel revealed nothing distorted or abnormal.

APPENDIX D

ATTACHMENTS TO TEST LOG

Ice Condenser Dew Point Justification

Problem: Whether or not the ice condenser area which is at 28°F and 15.1 PSIG can have a dew point of -3.6°F or is the instrument measuring the dew point malfunctioning

Solution:

Using the following equation obtained from the Cashrae Handbook 1977 Fundamentals on page 5.4, equation 38:

$$t_d = 71.98 + 24.873\alpha + 0.8927\alpha^2$$

t_d = temperature of dew point ($^{\circ}\text{F}$)

α = $\log_e(p_w)$

P_w = water vapor partial pressure (in Hg)

The first thing to obtain was the water vapor pressure at 28°F and 15.1 PSIG . This information was found the Mark's Standard Handbook for Mechanical Engineers, 8th Edition, on page 4-41, Table 42.

$$P_w = 0.0305 \text{ in Hg}$$

See attached copy about how this number was obtained.

Next take the P_w value and substitute it into the equation α :

$$\alpha = \log_e (P_w)$$

$$\alpha = \log_e (.0305)$$

$$\alpha = -3.490$$

Now take the α value and substitute into the equation for dew point temperature:

$$t_d = 71.98 + 24.873\alpha + .8927\alpha^2$$

$$t_d = 71.98 + 24.873(-3.49) + .8927(-3.49)^2$$

$$t_d = 71.98 - 86.81 + 10.873$$

$$\underline{\underline{t_d = -3.96^\circ F}}$$

This shows that the instrument was reading correctly and further checking of the instrument's reliability is not needed.

usually 760 mm or 30 inHg. Correction to other barometric readings is not simple. The equations have the advantage that the actual barometric pressure is taken into account. The equations are often more convenient for equal accuracy or more accurate for equal convenience.

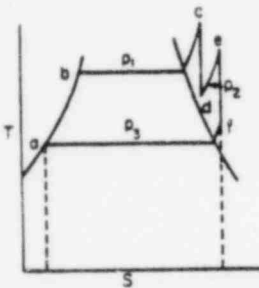


Fig. 28 Reheating cycle.

Psychrometric charts are usually plotted, as indicated by Fig. 30, with dry-bulb temperature as abscissa and specific humidity as ordinate. Since the specific humidity is determined by the vapor pressure and the barometric pressure (which is constant for a given chart), and is nearly proportional to the vapor pressure, a second ordinate scale, departing slightly from uniform graduations, will give the vapor pressure. The saturation curve ($r = 1.0$) gives the specific humidity and vapor pressure for a mixture of air and saturated vapor. Similar curves below it give results for various values of relative humidity. Inclined lines of one set carry fixed values of the wet-bulb temperature, and those of another set carry fixed values of v_a , cubic feet per pound of air. Many charts carry additional scales of enthalpy or Σ function.

Any two values will locate the point representing the state of the atmosphere, and the desired values can be read directly.

Figures 31 and 32 are psychrometric charts from the General Electric Company and Ellenwood and Mackey, "Thermodynamic Charts," covering a dry-bulb temperature range from

32 to 300°F. They are accurate only for a barometric pressure of 29.92 inHg.

Air-conditioning processes alter the temperature and specific humidity of the atmosphere. The weight of dry air remains constant and consequently computations are best based upon 1 lb of dry air.

Liquid water may enter or leave the apparatus. Its weight m_f lb per lb of air is often merely the difference between the specific humidities of the entering and leaving atmospheres.

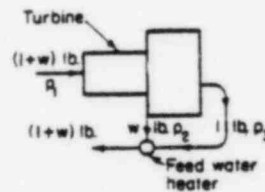


Fig. 29 Regenerative feedwater heating.

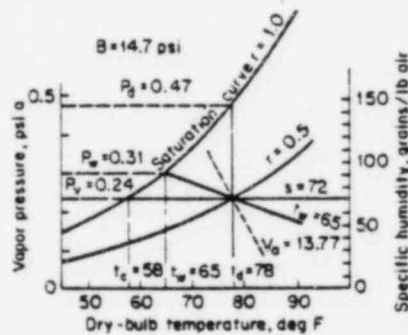


Fig. 30 Skeleton humidity chart.

Table 42. Vapor Pressure of Water in inHg at 32°F
Ice below 32°F

t	0	1	2	3	4	5	6	7	8	9
-40	0.0039									
-30	0.0071	0.0067	0.0062	0.0058	0.0055	0.0051	0.0048	0.0045	0.0043	0.0041
-20	0.0126	0.0119	0.0112	0.0106	0.0100	0.0094	0.0089	0.0084	0.0079	0.0075
-10	0.0220	0.0208	0.0197	0.0187	0.0176	0.0167	0.0158	0.0149	0.0141	0.0133
0		0.0358	0.0339	0.0322	0.0305	0.0289	0.0274	0.0259	0.0246	0.0233
32										
+0	0.0377	0.0397	0.0419	0.0441	0.0465	0.0489	0.0514	0.0541	0.0569	0.0598
10	0.0629	0.0661	0.0695	0.0730	0.0767	0.0806	0.0847	0.0889	0.0933	0.0980
20	0.103	0.108	0.113	0.119	0.124	0.130	0.137	0.143	0.150	0.157
30	0.165	0.172	0.180	0.188	0.196	0.204	0.212	0.220	0.229	0.238
40	0.248	0.258	0.268	0.278	0.289	0.300	0.312	0.324	0.336	0.349
50	0.363	0.376	0.391	0.405	0.420	0.436	0.452	0.469	0.486	0.504
60	0.522	0.541	0.560	0.580	0.601	0.622	0.644	0.667	0.690	0.714
70	0.739	0.765	0.791	0.818	0.846	0.875	0.905	0.935	0.967	0.999
80	1.032	1.066	1.102	1.138	1.175	1.213	1.253	1.293	1.335	1.378
90	1.422	1.467	1.513	1.561	1.610	1.660	1.712	1.765	1.819	1.875
100	1.933	1.992	2.052	2.114	2.178	2.243	2.310	2.379	2.449	2.521

Source: Keenan and Keyes, "Thermodynamic Properties of Steam," Wiley, 1936.

For 28°F

Go to -0°
and then go to
4°

32°

Ex. To find 28°F
go to -10 and
column 0, which
would be 0.0220

Dev./Station

Unit

File No.

Subject

TP/21A/1200/29

Page 1 of 2

ENCLOSURE 13.8

By

Date

Sheet No. of

Problem No. IMPOSED LEAK RATE CALCULATION

Date

Conversion of imposed leak in CFM to % per day
of the original containment mass

Containment Pressure at ILRT Initiation (P_1) 29.355 psia

Containment Temperature at ILRT Initiation (T_1) 546.17 °R

M_c = Containment mass at ILRT Initiation

$$M_c = \frac{P_1 V_1}{RT_1} = \frac{(29.355 \frac{\text{lb}}{\text{in}^2}) (\frac{144 \text{ in}^2}{\text{ft}^2}) (1239.759 \text{ ft}^3)}{(53.35 \frac{\text{ft-lb}}{\text{lbm-}^\circ\text{R}}) (546.17 ^\circ\text{R})} = 179853.78 \text{ lbm}$$

Turbine Flow Meter Set At (V_2) 3.55 CFM

Turbine Flow Meter Inlet Pressure (P_2) 4.92 psia

Turbine Flow Meter Inlet Temperature (T_2) 535.6 °R

Atmospheric Pressure (Comp. Pt. P_{atm}) 14.35 psia

M_i = Imposed Leak Through Turbine Flow Meter Expressed as $\frac{\text{lbm}}{\text{day}}$

$$M_i = \frac{P_2 V_2}{RT_2} = \frac{[(4.92 \text{ psia}) + (14.35 \text{ psia})] (\frac{144 \text{ in}^2}{\text{ft}^2}) (3.55 \frac{\text{ft}^3}{\text{min}}) (\frac{1440 \text{ min}}{\text{day}})}{(53.35 \frac{\text{ft-lb}}{\text{lbm-}^\circ\text{R}}) (535.6 ^\circ\text{R})}$$

$$M_i = 496.43 \frac{\text{lbm}}{\text{day}}$$

Imposed Leak Expressed as a % per Day of original Containment
Mass (%/day)

$$(\%/day) = 100\% \times \frac{M_i}{M_c} = 100\% \times \frac{496.43 \frac{\text{lbm}}{\text{day}}}{179853.78 \text{ lbm}} = 0.276 \%/day$$

Dev./Station _____

Unit _____

File No. _____

Page 2 of 2

Subject _____

TP121A1200) 29

ENCLOSURE 13.8

By _____

Date _____

Sheet No. _____ of _____

IMPOSED LEAK RATE CALCULATION

Checked By _____

Date _____

Turbine Flow Meter Inlet Temperature

Pyrometer - MCPRF26026

CAL DATE 7/22/82

CAL DUE 1/22/83

Turbine Flow Meter Inlet Pressure

Heise Gauge (0-20 psig)

MCPRF26089

CAL DATE

8/19/82

CAL DUE

11/19/82

Recorded By M. Gunning

Calculations By M. Gunning

Verified By Alan R. Jipe

Date 09/28/82

October 12, 1982

Memorandum For File

Subject: McGuire Unit 2
Imposed Leakage Flow Turbine Inlet Pressure
Measurement Device

At the end of the McGuire Unit 2 ILRT Imposed Leakage Verification it was noted that the leak rate was greater than expected. After examining the turbine flow-meter apparatus it was realized that the valve used to throttle was located downstream from the flow-meter. Since the throttle valve was downstream of the flow-meter air pressure passing through was greater than atmospheric, this meant the mass of air flowing from containment was greater than originally assumed.

The problem was to measure the turbine flow-meter inlet pressure without disturbing the flow. The flow meter was coupled to a rubber hose which was coupled to the imposed leakage path. A device consisting of a hypodermic needle coupled with a piece of tygon hose and a brass fitting was rigged together, all joints were superglued and securely clamped. This device was used in series with a calibrated 0-20 psig test gauge.

The hypodermic needle was used to perpendicularly penetrate the rubber hose. After the needle was inserted, all joints were soap bubble tested for leaks, none were detected. The test gauge achieved a pressure of 4.9 psig in approximately 3 seconds. The flow path at the outlet of the throttle valve was momentarily blocked, pressure increased rapidly, air was then released and the test gauge returned and maintained 4.9 psig. This demonstrated the repeatability of the device.

After the ILRT was complete the imposed leakage turbine flow meter was brought up to the test shop. A static pressure tap was placed in the turbine flow meter spool piece and a cross calibration was performed to demonstrate the validity of the use of the hypodermic needle. The hypodermic device had an excellent correspondence with the static pressure tap. (Refer to data sheet and Figure 1).

Also the question was raised about the 10 psig pressure drop from containment to the inlet of the turbine flow meter. Figure 2 depicts the imposed leakage flow path. Large flow restrictions occur at 2WL-370, 2WL-387, 2WL-371 (needle valve) and at the flange connection to the rubber hose. All of these restrictions account for the 10 psig drop.

William M. Suslick

W. M. Suslick
Jr. Engineer

WMS/tw

Attachment

cc: W. A. Haller B. H. Hamilton, MNS
J. E. Cole A. R. Sipe, MNS
J. E. Snyder G. A. Copp
M. D. McIntosh, MNS
File: MC-180.25, 271.00

II.RT Imposed Leakage Turbine Flow Meter
Inlet Pressure Verification

Flow (%)	Static Pressure Tap (1) (psig)	Hypodermic Needle (2) (psig)	Instrument Air (3) (psig)
80	2.7	2.7	28
71	4.9	4.9	28
60	7.7	7.7	28
50	11.0	11.0	28
40	14.7	14.7	28
70	1.1	1.2	20
60	3.3	3.4	20
50	6.0	6.0	20
40	9.1	9.0	20
80	5.5	5.5	35
70	8.0	8.0	35
60	11.1	11.1	35
50	14.7	14.7	35

1 Instrument # MCPRF 26020 0-20 psig Heise Gauge

2 Instrument # MCPRF 26089 0-20 psig Heise Gauge

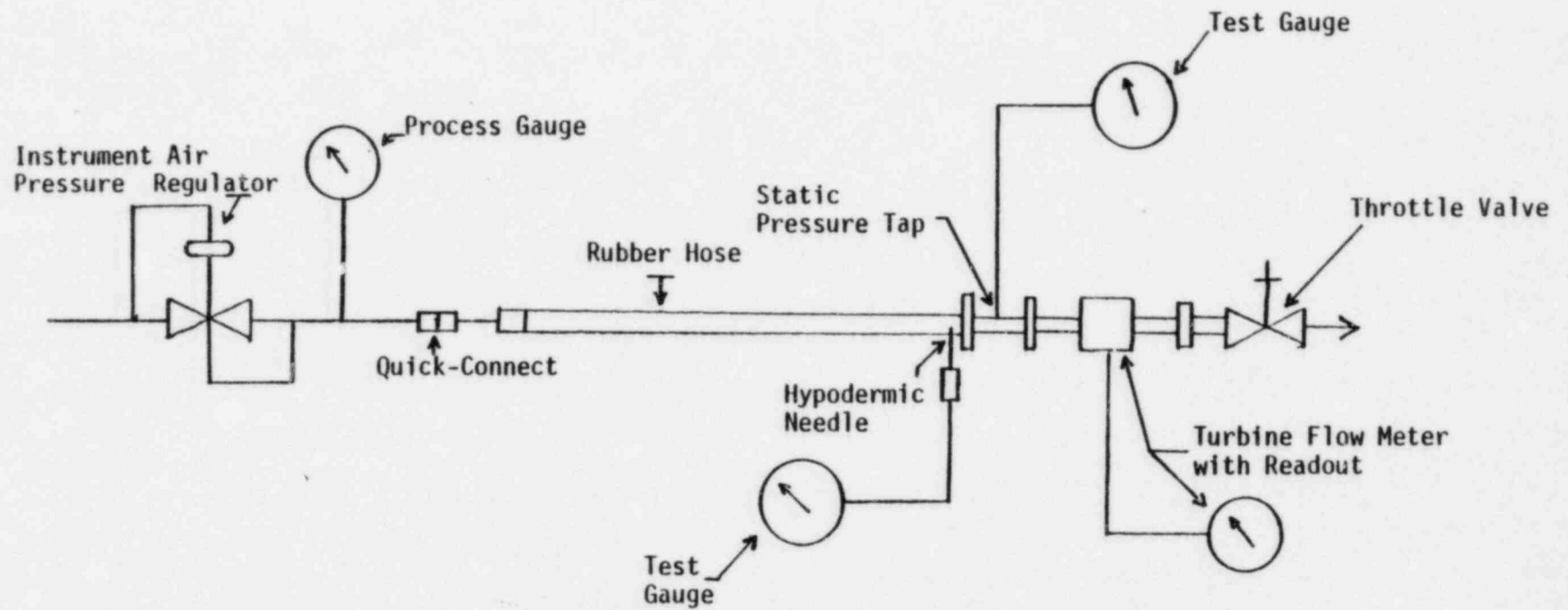
3 Process Gauge

Recorded by: William M. Fiedler

Date: 9/29/82

SHOP TEST EQUIPMENT SCHEMATIC

Figure 1



Unit 2 ILRT IMPOSED LEAKAGE ALIGNMENT

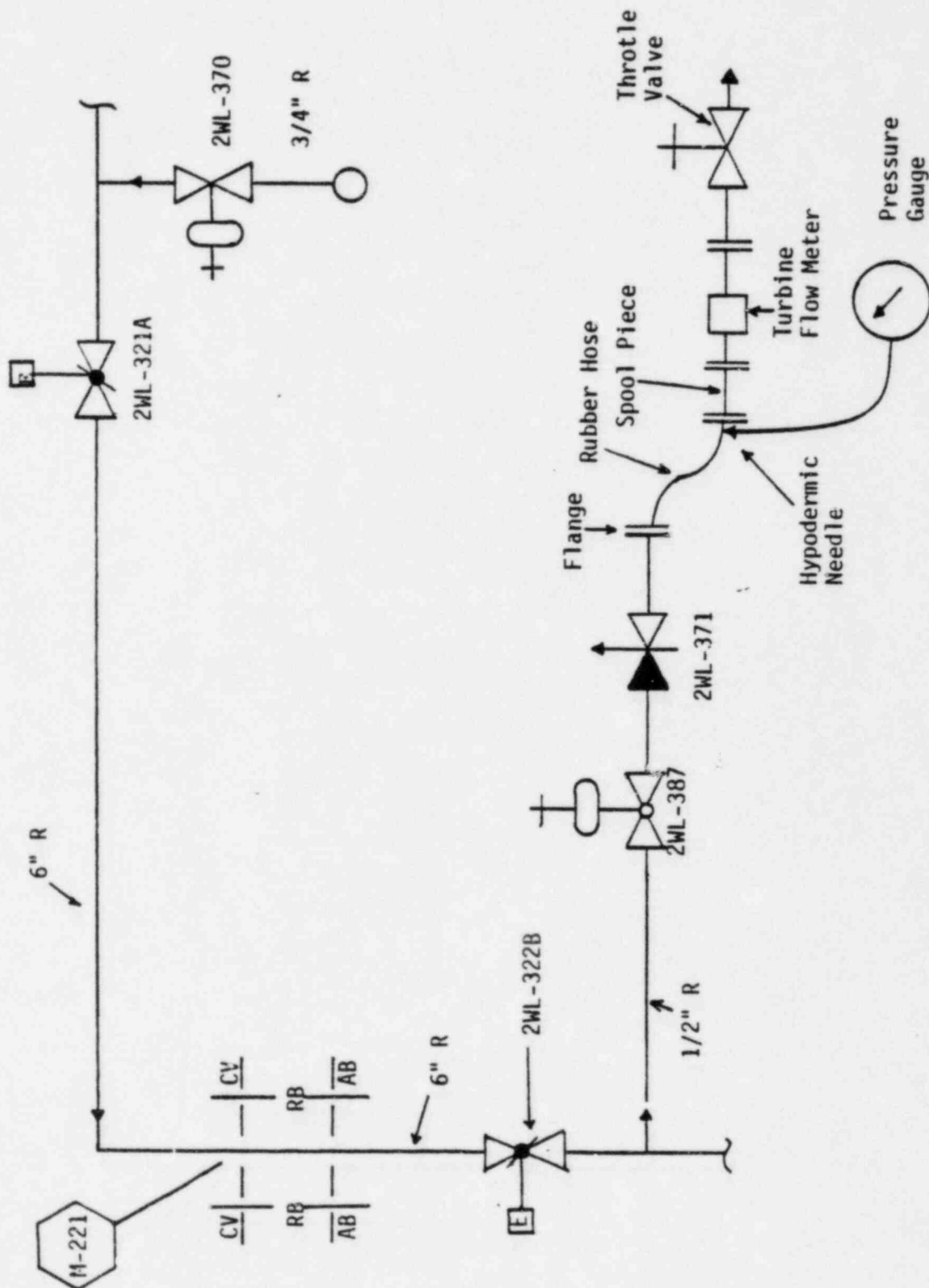


Figure 2