CAROLINA POWER & LIGHT

BRUNSWICK STEAM ELECTRIC PLANT

UNIT 2

REACTOR CONTAINMENT BUILDING

INTEGRATED LEAK RATE TEST

JULY, 1982

GP-R-74002

PREPARED BY

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ABSTRACT

During the period July 8, 1982 to July 14, 1982 the second periodic Reactor Containment Building Integrated Leak Rate Test (ILRT) was performed on Unit No. 2 of the Brunswick Steam Electric Plant (BSEP). This was done in conformance with Appendix J of 10CFR50 and BSEP Technical Specifications 3.6.1.2 and 4.6.1.2. The ILRT was run using the "Absolute Method" of leakage determination described in ANSI N45.4-1972 in accordance with the instructions of BSEP PT 20.5, rev. 6, "Integrated Primary Containment Leak Rate Test." Leak Rate calculations were made using the "Mass-Point" data analysis method described in ANSI/ANS-56.8-1981. This report fulfills the reporting requirements established in 10CFR50, Appendix J, Section V.

During this testing of containment, a sufficiently large number of small leakages were found which precluded meeting the necessary acceptance criteria for this test. While under pressure, several of these leaks were fixed, containment pressure was raised above the calculated peak accident pressure and the ILRT was successfully completed. The results of this test are as follows.

24 Hour Test Measured Leakage		= .298 wt%/24 hours
95% Confidence Factor		= .006 wt%/24 hours
B&C Test Leakage Penalty		= .014 wt%/24 hours
	L_{am}	= .318 wt%/24 hours

L_o (superimposed leakage)	= .501 wt%/24 hours
L_c (verification test measured leakage)	= .856 wt%/24 hours
L_{amt} (measured superimposed leakage)	= .558 wt%/24 hours

This data shows that all acceptance criteria was met:

L_{am} (.318 wt%/24 hours) < .75 L_a (.375 wt%/24 hours)

L_{amt} (.558 wt%/24 hours) < L_o + .25 L_a (.501 + .125 wt%/24 hours)

Summary graphs and tables of all pertinent data are included in the Appendices to this report.

I. INTRODUCTION

A. PLANT INFORMATION:

Owner.....	Carolina Power & Light
Plant.....	Brunswick Steam Electric Plant - Unit 2
Docket No.....	50-324
Location.....	Southport, NC
Type.....	Mark 1, BWR-4
Containment Description.....	Primary Containment consists of a steel-lined reinforced concrete, "light bulb" shaped drywell and torus shaped suppression chamber connected by a vent system. Vacuum breakers are provided between the suppression chamber and both drywell and reactor building.
Date Test Complete.....	July 14, 1982

B. TECHNICAL DATA:

Containment Free Volume.....	294,981 ft^3*
Design Pressure.....	62 psig internal design pressure
Design Temperature.....	300°F (drywell), 220°F (suppression chamber)
Calculated Accident Real Pressure (P_{ac}).....	49 psig
Calculated Accident Real Temperature.....	297°F

* (288,100 ft^3 for drywell and suppression chamber; 6,881 for reactor vessel)

C. TEST DATA:

Test Method.....	Absolute Method
Data Analysis.....	Mass Point
Test Pressure.....	64.62 psig
Maximum Allowable Leak Rate (L_a).....	.5 wt%/24 hours
Calculated Leakage Rate at UCL.....	.304 wt%/24 hours
Mass Step Change Metered Volume.....	.501 wt%/24 hours (1.002% L_a)
Mass Step Change Measured by Instrumentation (L_{am}).....	.558 wt%/24 hours

II. INTEGRATED LEAK RATE TEST

A. TEST METHOD

The Integrated Primary Containment Leak Rate (Type A) Test was performed using the "Absolute Method" of leakage determination as described in ANSI N45.4-1972, American Nuclear Standard, Leakage Rate Testing of Containment Structures for Nuclear Reactors. This method of leakage rate determination is based on the measurement of the temperature and pressure of the containment structure atmosphere with a correction for changes in water vapor pressure. Leakage rate calculations were made using the "Total Time" method described in ANSI N45.4-1972 and the "Mass-Point" method described in ANSI/ANS-56.8-1981, American National Standard, Containment System Leakage Testing Requirement. The results shown in this report are based on the Mass-Point calculation method.

As required in 10CFR50, Appendix J, Section III A 3b, the accuracy of the Type A test was verified by a supplemental test. A calibrated leak was superimposed on the existing leaks in the containment system. The supplemental test result was compared to the sum of the Type A test result and the superimposed leakage.

B. TEST INSTRUMENTATION

For the purpose of obtaining average Temperature and Vapor pressures, temperature and dewcell sensors were placed inside containment as shown in Figure #1. The containment was then divided into volume sections and the sensors were assigned as indicated in Table #1. Section volume fractions were calculated from the ratio of each section volume to total containment volume. Then, each section volume fraction was multiplied by its average sensor indication and those results were summed to obtain the weighted average value.

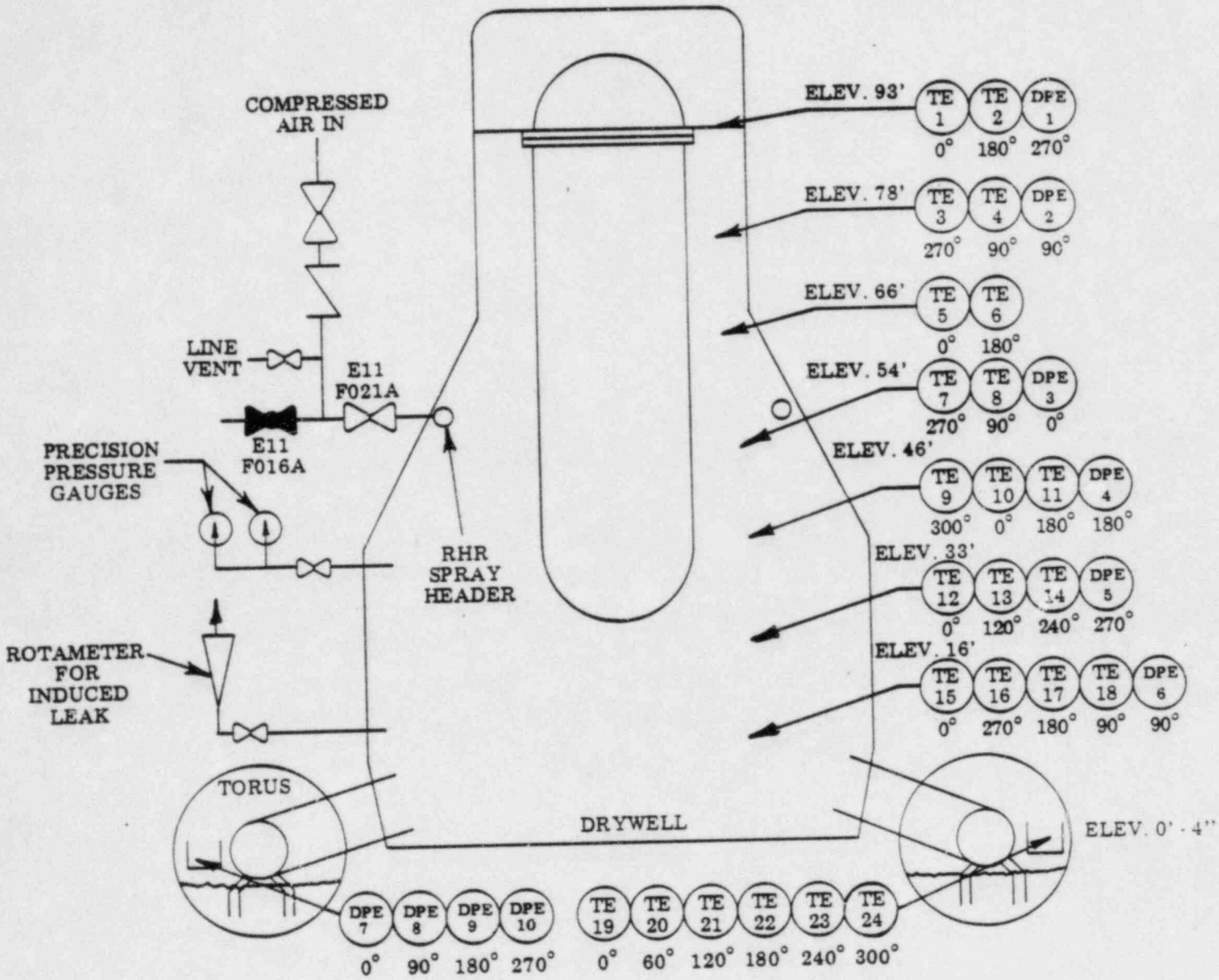
Containment pressure was obtained by first converting two direct readout measurements to their calibrated value and then averaging those results. Flow measurements, necessary for the verification test, were obtained from a calibrated flowmeter connected to the containment. Readings were corrected for differences between the calibrated and measured temperature.

Containment homogenity was enhanced by running four drywell cooler fans during the test. To preclude damage to the motors, due to the dense air at high pressures, the fan blade angles were adjusted. Additional mixing was provided by the installation of Coppus blowers within containment. Two blowers were installed in the Torus and four were installed at the eighteen foot elevation of the drywell.

A detailed description of the pressure, temperature and dewpoint instrumentation follows. Instrumentation error analysis is detailed in Section II.E.

IPCLRT SCHEMATIC ARRANGEMENT

(NOT TO SCALE)



TE = TEMPERATURE ELEMENT (RTD)
DPE = DEWPOINT ELEMENT (DEWCELL)

FIGURE 1

SENSOR SECTIONS

SENSOR	VOLUME FRACTION	SENSOR SECTION
TE1	.0264	T1
TE2	.0264	T1
TE3	.0187	T2
TE4	.0187	T2
TE5	.0115	T3
TE6	.0115	T3
TE7	.0136	T4
TE8	.0126	T4
TE9	.0194	T5
TE10	.0194	T5
TE11	.0194	T5
TE12	.0500	T6
TE13	.0500	T6
TE14	.0500	T6
TE15	.0577	T7
TE16	.0577	T7
TE17	.0577	T7
TE18	.0577	T7
TE19	.0701	T8
TE20	.0701	T8
TE21	.0701	T8
TE22	.0701	T8
TE23	.0701	T8
TE24	.0701	T8
DPE1	.0527	D1
DPE2	.0489	D2
DPE3	.0386	D3
DPE4	.0583	D4
DPE5	.1502	D5
DPE6	.2309	D6
DPE7	.1051	D7
DPE8	.1051	D7
DPE9	.1051	D7
DPE10	.1051	D7

TABLE # 1

B.1. Absolute Pressure Instrumentation

Containment pressure was measured with two direct readout, absolute pressure precision gages, connected to the containment via the sensing line for pressure instrument CAC PT 2685. The readings from each gage were taken manually every 15 minutes; the readings were then converted to absolute pressure through a calibration curve provided by the manufacturer for each instrument. Containment pressure was obtained by averaging the two pressures obtained.

Calibration of these instruments is done by the factory which pulls a vacuum on the unit to establish "zero." The output response is then compared to the input pressure and a calibration response curve for each instrument is obtained. When the gauge is installed on-site, an accurate barometer is used to measure pressure and establish the correct output reading. The "zero" is then adjusted for a null deviation output.

INSTRUMENT DATA:

Manufacturer.....	Texas Instruments
Model.....	2 Model 145-02 absolute pressure gages
Type.....	Direct readout in psia
Range.....	0-75 psia
Accuracy.....	0.010% of reading
Sensitivity.....	0.001% of full scale
Resolution.....	0.001% of full scale
Repeatability.....	0.005% of full scale

B.2. Vapor Pressure Instrumentation

Water vapor pressure in the primay containment was determined indirectly by the use of ten Foxboro dewcells. These dewcells have an internal resistance temperature device (RTD) which measures the equilibrium temperature that the dewcell comes to as the result of the properties of the hygroscopic salt, Lithium Chloride, which was placed on the heaterwindings of the dewcell. This equilibrium temperature is directly related to the partial pressure of water in the atmosphere.

The RTD's were driven by Foxboro transmitters whose 4-20 milliamp signal is directly proportional to the equilibrium temperature. The transmitter was connected to the plant process computer which converted the milliamp signal to a dewpoint temperature. The process computer output was sent to a line printer every 15 minutes.

The dew point temperatures were input into the Integrated Leak Rate Test Computer Program and, through a fourth order equation, section average vapor pressures were obtained from the section average dewpoints. Weighted average vapor pressures were calculated by the following equation:

$$Vp = \sum_{i=1} vf_i * Vp_i$$

where:

vf_i = i^{th} dewcell section volume fraction

Vp_i = i^{th} dewcell section average vapor pressure

Vp = weighted average vapor pressure

Calibration of these instruments consisted of verifying the sensor, transmitter, and process computer response and calibrating the system in its entirety. Each sensor's response was verified by placing the instrument in both an ice bath and 150°F "warm water" bath. The transmitter's gain and span was adjusted so the output milliamp signal was proportional to a specific temperature range. A process computer/dewcell transmitter calibration was performed to verify the response of those units. An in-situ calibration check was made to ensure the system output matched locally measured results. A post-test calibration check of the dewcell RTD was done to ensure the device remained within acceptable tolerance.

INSTRUMENT DATA:

Manufacturer.....	Foxboro
Model.....	1 model 2701RG Nickel RTD dewcells 10 model E94-P193 4-20 ma temperature transmitters
Range.....	0°F - 150°F dewpoint
Accuracy.....	± 0.5°F dewpoint
Repeatability.....	.05% of span

B.3. Temperature Instrumentation

The containment temperature was measured using 24 4-wire platinum resistance temperature detectors. Because of the limited number of prewire penetrations, only 3 wires per RTD were used to measure resistance. The RTD's were connected to a Chromalox process indicator with 4-wire, 1°F per millivolt output, signal conditioning cards. The millivolt output from the signal conditioning card was transmitted to the plant process computer which, through a linear conversion, was changed to a temperature. The temperatures were output on a line printer at 15 minute intervals.

The temperatures were then input into the Integrated Leak Rate Test Computer Program where section averaged temperatures were obtained. A weighted average temperature was calculated using:

$$T = \sum_{i=1} vf_i * T_i$$

where:

vf_i = i^{th} temperature section volume fraction

T_i = i^{th} temperature section average temperature

T = weighted average temperature

Calibration of the temperature instrumentation consisted of a calibration of the sensor, transmitter and computer system. Each RTD sensor had a two-point calibration performed at the manufacturer's laboratory. The sensors were then cal-checked for proper operation prior to installation in the containment. Each chromalox process indicator input card was calibrated over an 80°F temperature span. The lead wire resistance of the RTD sensors was measured and a decade box, whose resistance equalled half that measured value, was placed in series with a variable decade box. The linearity, span and gain for each of the input cards was adjusted so the local temperature indication was correct. The process computer software was set up for a 1°F output per millivolt input signal. Then, a calibration of the process computer/chromalox indicator was performed using the series resistance of precision decade boxes described earlier. An in-situ calibration check was performed on all 24 temperature sensors to ensure that computer output and local indication were consistent. A post-test calibration check was performed to verify proper operation of the unit during the test.

SENSOR DATA:

Manufacturer.....	Rosemont
Model.....	24 model 78-39-17 RTD
Range.....	0-400°F
Accuracy.....	.09°F (32°F)
Repeatability.....	± .09°F

TRANSMITTER DATA:

Manufacturer.....	Chromalox
Model.....	3 model 2510 process indicators
Range.....	-100°F to 1000°F
Resolution.....	.1°F
Repeatability.....	± .1% of span

B.4. Flow Measuring Instrumentation

A calibrated flowmeter was used to measure the superimposed leakage during the verification test. The flowmeter was connected to the drywell through a pressure sensing line; a throttle valve was installed on the upstream side while it's downstream side was vented to atmospheric pressure. The throttle valve controlled the flow through the flowmeter by selecting the orifice size through which air could leave containment. A local pyrometer was used to measure the temperature of the air leaving containment; the measured flow was converted to its calibrated value and temperature corrected by the following formula:

$$Q_a = Q_c \left(\frac{SG_c * T_c * P_a}{SG_a * T_a * P_c} \right)^{1/2}$$

where:

Q_a = actual flow

Q_c = calibrated flow

SG = specific gravity

T = temperature (^{o}R)

P = pressure (psia)

The unit was sent to the manufacturer for calibration at 0, 25 and 49 psig. Since the upstream side was throttled, the 0 psig calibration curve was used.

INSTRUMENT DATA:

Manufacturer.....	Brooks Instrument
Model.....	1 model 1110 flowmeter
Range.....	0-5 SCFM
Accuracy.....	± 2% full scale

C. SEQUENCE OF EVENTS

Initial pressurization of the primary containment was begun at 1600 on July 8, 1982. At approximately 1730, a root valve on a pressure instrument, which was incorrectly left open, was closed. At 2100 (approximately 50 psia) the drywell cooler fans began to trip; it was discovered that the fans had only a 90% rated overload rather than the 110% or 125% overload expected. At 2300, the compressors were secured with containment pressure registering 64.9 psia. At this time all drywell cooler fans had tripped, however, measures were taken to restart those units.

Upon completion of the pressurization, snoop teams were sent to investigate potential leakages. At 0100 on July 9, 1982 a leak on the tubing connector to CAC-PT-2685 was repaired. This connector was the same one used to connect the Texas Instruments Pressure Recorder, thus, pressure readings were suspended during these repairs. At 0100, drywell cooler fans 2A2 and 2B1 were successfully restarted and remained operational for the remainder of the test.

At this time, a leak was detected on the RHR "A" loop heat exchanger relief valve (E11-F055A). An attempt to stop the leak, by operating the knife handle on the top of the relief valve, failed, because the gagging bolt was missing. At 0500, a gagging bolt was installed in the relief valve, thus securing that source of leakage. A snooping of that relief valve confirmed that there were no other leaks in the area. A calculation (see Appendix C) was made to quantify the amount of leakage through the relief valve. Based upon leak rate calculations for the ninety minute period immediately preceding and following repairs, a leak rate of 6.366 wt%/day can be attributable to the gagging bolt.

During the day of July 9, 1982, snoop teams inspected available areas of containment. A number of leaks were discovered, however, no single large leak was found. Leakages in the stem and packing of the temporary piping valves used for the pressurization were found and were fixed. Caps were installed on lines, e.g. E51-F065, which had no leakage but were discovered to be missing caps. No repairs or adjustments were made to the containment, other than those specified above.

At 1230, Reactor Vessel Level had decreased below the bottom of the operating range and was refilled. Because the level had previously decreased at a rate of 1"/hour, the vessel was overfilled to a level of 208". Subsequently, the rate of decrease slowed considerably, and level became constant for the remainder of the day. At 0245, on July 10, operations secured all running equipment in the reactor building (e.g. RHR pump, RHR circulating water, and the Reactor Building Ventilation fans) so that any air leaks that could be heard during the snooping would be identified. All equipment was restored to service at 0300, at which time a continuation of the snooping effort resumed.

At this time, a review of the entire ILRT was begun by a team consisting of Shift Supervisors, Engineering Supervisors, and ILRT personnel. It was discovered that HPCI valves -- E41-F075 and E41-F079 -- and RCIC valves -- E51-F066 and E51-F062 -- were positioned in the "open" rather than the "closed" position. The mistake was found when the logic diagrams were examined which showed that these valves go shut on a "High Drywell Pressure" and "HPCI/RCIC Low Steam Pressure" for E41/E51 valves, respectively. These valves were correctly positioned at 2300.

At 0030, on July 11, 1982, it was discovered that Chemistry had been continuously draining a sample line. Once this line was closed, reactor vessel level which had shown a small but steady decrease since 1630 on July 10, stabilized. Although the leak rate slowed after the HPCI and RCIC valves were closed, the leak rate was still unacceptable. At this time, a

rotometer was setup on the temporary piping which demonstrated that no significant leakages were coming from the E11-F016A & F021A valves. As in the previous day, operations secured the running equipment in the reactor building at 0645; however, no other leaks were found.

At 2200, a decision was made to initiate repairs for those leakages found. A list of leakages and the repairs performed is shown in Figure #2. At 2330, the containment repressurization was begun and at 0015 on July 12, when containment pressure reached 64.9 psia, pressurization was terminated. Repairs proceeded throughout the day and when completed at 1830 on July 12, the containment integrated test was restarted.

At 1830 on July 13, the 24-hour test was terminated. The measured leakage was .298 wt%/24 hours with a .006 wt%/24 hours confidence factor. A calibrated leakage was superimposed on the containment at 2030 on July 13. This was done by throttling the air through the Brooks flowmeter (Model # 8103H01820) until a steady scale reading of 225 was reached. Using the manufacturer's calibration and appropriate temperature correction, the imposed leak rate was determined to be .501 wt%/day (see Appendix D). The imposed leak rate stabilization period was met and the verification leak test was begun at 2200 on July 13. At 0200 on July 14, the four-hour test duration was met and the verification test concluded. The difference between the expected leak rate, .799 wt%/day and the measured leak rate, .856 w%/day, was well within the .125 wt%/day allowable error.

At 0255 on July 14, containment depressurization was begun through the Standby Gas Treatment (SBGT) System. As per procedure, CAC-V49 and CAC-V50 were opened at 0400; however, excessive flow through the SBGT resulted and those valves were reclosed. At 0620, CAC-V49 and CAC-V50 were reopened without causing excessive flow through the SBGT. At 0850, the SBGT trains were secured and the purge path was used to complete the depressurization; this did not significantly increase the depressurization rate. At 1015 on July 14, the containment was depressurized and access was restored.

LEAKAGES REPAIRED DURING ILRT

Leak Source	Repair
CAC-PT-2685	Teflon tape and tightened fittings
E11-F016A	Adjusted packing
CAC-V17	Repacked valve since packing adjustment was not sufficient
Core Spray "A" Pump	Tightened union on pump seal line
CAC-V5	Repacked valve since packing adjustment was not sufficient
CAC-V16	Adjusted packing
E11-F021A	Adjusted packing - still leaking slightly
CAC-PV-3438	Tightened nuts at bushing
CAC-1260	Replaced muffler and tightened fittings inside cabinet
CAC-AT-1259	Cleaned fittings and reassembled
C72-PS-N002A N002C	Tightened fittings
E21-PI-R001B	Examined fittings and reconnected
CAC-FE-2686	Line was temporarily plugged to repair leaky welded fittings. Repairs not complete yet.
TIP Tubing	Replaced pitted tubing and tightened fittings
B21-F032B	Packing leak was checked and left satisfactory. Apparently no repairs were performed or necessary on this valve.
Core Spray "B" Pump Flange Leak	Leak was noted and repaired

FIGURE #2

D. RESULTS AND ACCEPTANCE CRITERIA

D.1. Relief Valve Leakage

A calculation of the relief valve leakage, 6.366 wt%/day, is shown in Appendix C. It is clear that the missing "gag bolt" caused significant leakage far in excess of that allowed per technical specifications. However, the missing "gag bolt", itself, is not considered a cause for test failure. Rather it indicated a failure to maintain proper control and surveillance. Subsequent to this occurence, Brunswick station has initiated several administrative measures which will help ensure that this type of problem will not be repeated.

D.2. Post-Relief Valve Repair Leakage

A calculation of the containment leakage for the periods 7/9/82 (0500) -- 7/9/82 (2345) and 7/10/82 (0000) -- 7/10/82 (2300) is detailed in Appendix B; they are, respectively, .653 and .539 wt%/day. The leakrate showed a steady decrease over that time period to the value evidenced at 2300 on July 10. The confidence limits at that time indicate that the leakage had become quite constant.

The initially large leakrate is attributable to the concrete absorbing air until an equilibrium state is reached. Normally, this would have occurred much earlier in the test period, however, the significant relief valve leakage delayed the time necessary to reach the equilibrium state. The .539 wt%/day calculated leakrate was in excess of that allowed and the confidence limits indicated that the leakrate would not change unless the containment integrity was modified.

D.3. Revised Valve Lineup Leakage

Due to an incorrect interpretation of technical specifications, HPCI valves, E41-F075 and E41-F079, and RCIC valves, E51-F066 and E51-F062, were inadvertantly left open in the valve lineup. Upon review of the appropriate logic diagrams, the valve lineup was revised and those valves were closed at 2300 on July 10. The resultant leakrate, .439 wt%/day, was calculated for the period 7/10/82 (2300) -- 7/11/82 (2145) in Appendix B. Although this leakrate showed a significant difference from that calculated between 0000 - 2300 on July 10, the confidence limits indicate that a stable leakrate was achieved. Since there was no obvious leaking isolation valves, and the leakrate was still 25% higher than allowed per technical specifications, a repair of recognized leak sources was initiated (see Section II.C.). The repairs were completed at 1830 on July 12, and the containment leak rate test restarted at that time.

D.4. 24-HourType "A" Test Leakage

The 24-hour containment integrated leak rate test was successfully run during the period 7/12/82 (2300) -- 7/13/82 (2300). Temperature stabilization calculations (see Appendix E), show that the absolute value of the difference between the average temperature over the last four hours (92.109) and the average temperature over the last hour (92.155) was within .5°F.

i.e. $92.155 - 92.109 \leq .5$

$.046 \leq .5$

Leakrate calculations detailed in Appendix B show that the calculated 24-hour leakrate is .298 wt%/day with an upper confidence limit of .304 wt%/day. Additionally, certain systems were necessary to maintain the plant in a safe condition or were not vented or drained per 10CFR50 Appendix J requirements. Those isolation valves not subject to the accident pressure are detailed in Table #3; the leakage penalty associated with them is calculated to be .014 wt%/day. Using the acceptance criteria detailed in 10CFR50 Appendix J, and stated in the ILRT Test Procedure, the sum of the upper confidence leakage and the B&C penalty must be less than .75 L_a.

i.e. UCL + Penalty $< .75\ L_a$

$L_a = .5$ wt%/day

UCL = .304 wt%/day

Penalty = .014 wt%/day

$.318 < .375$ which satisfies the acceptance criteria

VALVE EXCEPTIONS

Exception #		Isolation Valve	LLRT #	Date	Leakage Penalty (SCFH)
1		2-B32-V22,V30	B32-1	8/22/82	ø
2		2-RNA-V101	RNA-1		< .1
3		N/A			
4		2-RXS-PV1222B, PV1222C	N/A		(See Exception 7.b below)
5		N/A			
6		N/A			
7	a.	2-RCC-V28, V52	RCC-1	8/21/82	1.349
	b.	2-RXS-PV1222B, PV1222C	RCC-2	8/21/82	1.349
8		2-G16-F003, F004	G16-1	8/22/82	ø
9		2-G16-F019,F020	G16-2	5/21/82	ø
10		2-B21-F032A, 2-E41-F006	B21-3	7/5/82	ø
11		2-B21-F032B, 2-E51-F013, 2-G31-F039	B21-4	6/7/82	1.882
12		2-G31-F001,F004	G-31-1	8/23/82	.2767
13		2-E11-F008, F009	E11-1	5/22/82	2.487
14		2-B32-F019, F020	B32-2	8/20/82	.061
			TOTAL PENALTY:		7.5047 SCFH

To obtain penalty in weight %/day, we must first calculate the conversion factor.

since: L_a (=.5 wt%/day) = 266.30 SCFH

1 wt%/day = 532.60 SCFH

$\therefore$ Penalty (wt%/day) = Penalty (SCFH)/532.60 SCFH

$$\text{Penalty} = \frac{7.5047}{532.60} \text{ wt\%/day}$$

Penalty = .014 wt%/day

TABLE #3

Other acceptance criterion refer to the sensors in operation during this test and the maximum containment volume they represent. The table below details that criterion:

Measurement	Acceptance Criteria	Quantity	As Tested	Acceptance Met (Y/N)
Pressure	Minimum # Sensors	1	2	Y
Temperature	Maximum Sensor Volume Fraction	10%	7.01%	Y
Vapor Pressure	Minimum # Sensors	3	10	Y
Flow	Minimum # Sensors	1	1	Y

Clearly, all criteria has been satisfied.

D.5. Verification Test Leakage

Upon completion of the 24-hour test, a calibrated leakage of .501 wt%/day (see Appendix D) was superimposed on the existing containment leakage. Based upon a 90-minute flow stabilization, the four-hour superimposed leakage test was begun at 2200 on July 13. Appendix E shows that the temperature stabilization criterion was easily met. At 0200 on July 14, the verification leakage test was concluded, with a mass-point leakage calculation of .856 wt%/day (see Appendix B). The verification leakrate acceptance criteria is shown below:

$$L_{am} + L_o - .25\, L_a \leq L_c \leq L_{am} + L_o + .25\, L_a$$

where:

L_{am} = 24 hour measured leak rate (.298 wt%/day)

L_o = superimposed leakage (.501 wt%/day)

L_c = verification test leakage

L_a = maximum containment leakage (.5 wt%/day)

$$\therefore \quad .298 + .501 - .125 \leq L_c \leq .298 + .501 + .125$$

$$.674 \leq L_c \leq .924$$

since:

L_c = .856, the criterion is met.

The verification test was continued until 0230 on July 14 to ensure the stability of the data. Leakage calculations for time periods of four hours or greater, whose end time is 0200 or later, are detailed in Table #1. The difference between the mass point and upper confidence leak rate shows the extent of scatter in the data. Upon examination of the data scatter and mass point values, it is obvious that the 2200 - 0200 time frame was a poor choice. It shows more scatter than any other four-hour time frame and the magnitude of the leak rate is never greater in any other time period. However, since that time frame satisfied the acceptance criteria, all others would easily do so. Thus, our verification test does confirm the accuracy of the measurements, although our instruments indicated a higher than expected leakrate.

VERIFICATION LEAKRATE CALCULATION

	END TIME		
START TIME	0200	0215	0230
2030	.834/.868	.836/.867	.826/.856
2045	.840/.877	.842/.875	.830/.863
2100	.851/.889	.851/.886	.838/.872
2115	.848/.891	.849/.888	.834/.872
2130	.852/.900	.853/.895	.836/.878
2145	.847/.900	.849/.896	.831/.877
2200	.856/.915	.856/.909	.836/.887
2215	.834/.896*	.837/.892	.816/.869
2230	.799/.858*	.807/.859*	.787/.837

(Mass Point Leakage/Upper Confidence Leakage)

* less than four hour time period

E. ERROR ANALYSIS

E.1. Instrument Selection Guide

E.1.a. Pressure Instruments

Sensitivity: .001% full-scale
Resolution: .001% full-scale
Accuracy: .01% reading

E.1.b. Temperature Instruments

1. Rosemount RTD's

Repeatability: .025% or 05°C (whichever is greater)
Accuracy: .05°C (at 0°C), .15°C (at 100°C)

2. Chromalox transmitter

Repeatability: ± 1% of span
Resolution: .1°

E.1.c. Dewcel Instruments

1. Foxboro RTD

Accuracy: ± .5°F

2. Foxboro Dewcel Transmitter

Accuracy: .25% of span
Repeatability .05% of span

Plant Conditions:

P = 64.6 psia

T = 92.2°F (= 552°R)

VP = .594 psia

Pressure:

# of sensors:	2
Range:	0-75 psia
Sensitivity:	.00075 psia
Resolution:	.00075 psia

$$e_p = \pm \left[(.00075)^2 + (.00075)^2 \right]^{1/2} \Big/ \; 2^{1/2}$$

$$e_p = \pm .00075 \text{ psia}$$

Vapor Pressure:

# of sensors	10
Range	0-150°F (Dew Point)
Sensitivity (use accuracy)	± .5°F
Resolution (use repeatability)	± .075°F

$$e_{VP} = \pm \left[(.5^2 + (.075)^2 \right]^{1/2} \Big/ \; 10^{1/2}$$

$$e_{VP} = \pm \left[.255625 \right]^{1/2} \Big/ \; 10^{1/2}$$

$$e_{VP} = .1599^{\circ}F$$

at 92°F vapor pressure changes .047 "Hg/°F

(reference Keenan & Keyes, "Thermodynamic Properties of Steam", Wiley, 1936)

since:

$$1" \text{ Hg} = .491154 \text{ psia}$$

$$\therefore \; .1599^{\circ}F = .003691 \text{ psia}$$

$$\therefore \; e_{VP} = .00369 \text{ psia}$$

Temperature:

# of sensors..... 24

Range..... $0-400^{\circ}F$

Sensitivity (use repeatability).... $= \pm .09^{\circ}F$

Resolution..... $.1^{\circ}F$

$$\therefore \quad e_T = \pm \left[(.09)^2 + (.1)^2 \right]^{1/2} \Big/ 24^{1/2}$$

$$e_T = \pm \left[(.0081 + .01) \right]^{1/2} \Big/ 24^{1/2}$$

$$e_T = \pm .0275^{\circ}R$$

From ANSI/ANS-56.8 - 1981, "Containment System Leakage Testing Requirements," Appendix G, the following Instrument Selection Guide Formula is obtained.

$$\therefore \quad ISG = \pm \frac{2400}{t} \left[2 \left(\frac{e_P}{P}\right)^2 + 2 \left(\frac{e_{VP}}{P}\right)^2 + 2 \left(\frac{e_T}{T}\right)^2 \right]^{1/2}$$

$P = 64.6$ psia

$T = 552^{\circ}R$

$t = 24$

$$\therefore \quad ISG = \pm 100 \left[2.70 \times 10^{-10} + 6.526 \times 10^{-9} + 4.964 \times 10^{-9} \right]^{1/2}$$

$$ISG = \pm 100 \left[11.76 \times 10^{-9} \right]^{1/2}$$

$$ISG = \pm 1.084 \times 10^{-2} \ \%/day$$

E.2. Water Level Effect

The calculation of leakage was based on a constant free air containment volume. Since the reactor vessel water level and torus water level changed during the test period, a calculation of the effect of that change on the leak rate follows:

E.2.a. Reactor Vessel Water Level

1815 (7/12) 196.0", 196.5", 195.5"
1815 (7/13) 197.0", 197.5", 196.5"

Reactor vessel level increased 1", which corresponds to a volume change of 21.6 ft^3, as shown below:

(r_x vessel radius = 109")

$$V_{RV} = \pi r^2 h_{RV}$$

$$V_{RV} = (\pi) * (109)^2 * (1) * 12^{-3}$$

$$V_{RV} = 21.6\ ft^3$$

E.2.b Torus Vessel Level

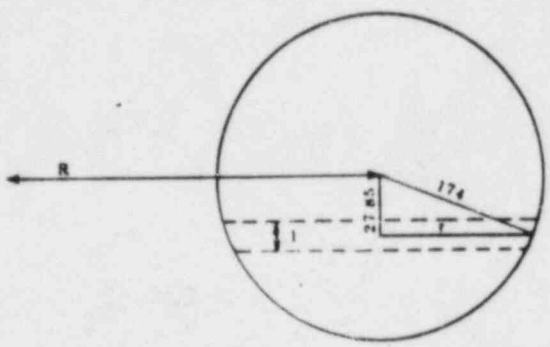
1815 (7/12) -26.8"
1815 (7/13) -26.9"

∴ Torus water level decreased .1", which corresponds to a volume change of 81.7 ft^3, as shown below:

From the FSAR:

Major axis = 109' 0" (diameter)
Minor axis = 29' 0" (diameter)
Torus center = 1"

Torus cross-section is shown where "r" is the radius of the midpoint of the volume change.



The radius "r", is obtained from the pythagorean theorem which yields:

$r = 171.757"$

The volume of the .1" strip is found from:

$$V_T = \pi(R_2^2 - R_1^2) \cdot h$$

since:

$R = 654"$

$R_2 = R + r$

$R_1 = R - r$

or:

$$V_T(ft^3) = \pi\,(825.757^2 - 482.243^2) * (.1)$$

$$V_T = 81.7\ ft^3$$

A decrease in water level corresponds to an increase in the free air volume; conversely, an increase in the water level corresponds to a decrease in the free air volume. Using all positive quantities, the volume at time "2" compared to time "1":

$$V_2 = V_1 - V_{RV} + V_T$$

where:

V_{RV} = volume change due to r_x vessel water level

V_T = volume change due to torus water level

If the leakrate "L" is defined to be the change in mass from time "2" to "1" divided by the mass at time "1"

$$L = \frac{\frac{P_1V_1}{RT_1} - \frac{P_2V_2}{RT_2}}{\frac{P_1V_1}{RT_1}}$$

our calculated leakrate, L_c, assumed that $V_1 = V_2$

$$\therefore \quad L_c = \frac{\frac{P_1}{T_1} - \frac{P_2}{T_2}}{\frac{P_1}{T_1}}$$

or:

$$L_c = 1 - \frac{P_2 T_1}{P_1 T_2} \qquad \text{Eqn 1}$$

the true leak rate, L_T, is then

$$L_T = \frac{\frac{P_1 V_1}{T} - \frac{P_2 (V_1 - V_{RV} + V_T)}{T}}{\frac{P_1 V_1}{T_1}}$$

$$\therefore \quad L_T = 1 - \frac{P_2 T_1}{P_1 T_2} \left(1 - \frac{V_{RV}}{V_1} + \frac{V_T}{V_1} \right)$$

$$\therefore \quad L_T = L_c - \frac{P_2 T_1}{P_1 T_2} \left(\frac{V_T - V_{RV}}{V_1} \right)$$

since:

$$L_c \sim 3 \times 10^{-3} \text{ (from our measurements)}$$

$$\therefore \frac{P_2 T_1}{P_1 T_2} = 1 - 3 \times 10^{-3} \qquad \text{(from Eqn 1)}$$

$$\therefore \quad L_T = L_c - \left(\frac{V_T - V_{RV}}{V_1}\right) + 3 \times 10^{-3} \left(\frac{V_T - V_{RV}}{V_1}\right)$$

since:

$$V_T = 81.7 \text{ ft}^3$$

$$V_{RV} = 21.6 \text{ ft}^3$$

$$V_1 = 294{,}981 \text{ ft}^3$$

$$\therefore \frac{V_T - V_{RV}}{V_1} \sim 2 \times 10^{-4}$$

$$\therefore L_T = L_c - 2 \times 10^{-4} + 3 \times 10^{-7}$$

Using $L_c \sim 3 \times 10^{-3}$, we obtain the true leakrate $L_T \sim 2.8 \times 10^{-3}$ wt%/day

III. LOCAL LEAK RATE TESTING

As a part of this report, 10CFR50, Appendix J, requires that results of periodic type B and C testing performed since the last type A test be included. Additionally, modifications to the containment integrity and maintenance or repair to the containment isolation valves has been summarized in this section of the report. The repairs performed have been divided into those periods of local leak rate testing programs and those periods between testing programs. The information listed in Section A has been condensed from maintenance trouble ticket reports from 1978 to present.

The 1979, 1980 and 1982 local leak rate test program results are listed in Section B. "As Found" and "As Left" local leak test results are provided, summarized by test numbers; respective isolation valves and penetrations are detailed. Additionally, for 1982, an "As Found" and "As Left" penetration leakage has been calculated. These results are detailed in Section C, where the methodology and approach is described is full detail.

A. CONTAINMENT ISOLATION VALVE MAINTENANCE/MODIFICATION/REPAIR

A.1. January, 1978 - February, 1979

During this period the following repairs and/or maintenance was performed on the containment isolation valves.

Valve	Repair/Maintenance
CAC-V48	Replace operator shaft-nut "O"-Ring
E11-F008	Replaced motor, lapped seat, stroked valve
E41-F012	Replaced motor, stroked valve
B32-V22	Rewired motor, replaced torque switch
E21-F015A	Replaced bonnet gasket, repacked valve
G16-F019	Replaced solenoid valve
CAC-V6	Cleaned valve, replaced seal gasket, replaced one "O"-Ring, stroked valve
CAC-V47	Replaced actuator
CAC-V4	Replaced disk, seat, "O"-Ring and flex gaskets
CAC-V49, V50	Replaced disc and seat
CAC-V7, V8	Replaced disc
E41-F003	Replaced all old packing
E41-F006	Installed gasket at leak-off line union, added packing
B21-F028A,B,C,D	Replaced packing
E41-F006	Repaired wire on closed limit switch
B21-F022C	Tightened limit switch contact arm

A.2. 1979 Local Leak Rate Test Program (3/79 - 5/79)

During this period, periodic maintenance and planned modifications were performed on specific containment isolation valves. Additionally, isolation valves which were unable to pass a local leak rate test or which evidenced excessive leakage were repaired. These are detailed below.

Valve	Modification/Maintenance/Repair
B21-F010A	Cleaned valve, replaced pressure seal bonnet gasket
E11-F049	Lapped seat
E51-F040	Lapped disc to seat, installed new gasket
B21-F022D	Replaced cracked disc
B21-F028A	Reseated valve
E41-F021	Lapped seat
FW-F010A	Replaced pressure seal bonnet gasket
RNA fittings	Snooped and tightened all instrument air nuts and fittings
G31-F001	Replaced burnt motor and defective limit switches
B21-F022A,B,C,D	Replaced all packing
B21-F028A,B,C,D	Replaced all packing
B21-F032A,B	Adjusted valve closure
CAC-V8	Cleaned bypass closure
CAC-V6	Cleaned bypass disc
CAC-V48	Correctly positioned wheel indicator, cleaned actuator arm and spring, replaced limit switch

A.3. June, 1979 - February, 1980

During this period the following repairs and/or maintenance were performed on the containment isolation valves.

Valve	Repair/Maintenance
B21-F022D	Replaced DC solenoid coil per NRC request
E21-F032B	Cleaned flange surfaces, installed new flex gasket
E11-F008	Lapped seat and disc
E11-F009	Lapped both seating surfaces
E41-F012	Lightly lapped seat, tightened pressure seal gasket, tapped hole for stem clamp set screw
E11-F024B	Skim cut disc, lapped seat rings, tack-welded disc nut to disc, replaced stem, installed new gasket and packing
E11-F024A	Skim cut disc, tack-welded disc to stem, reassembled using new bonnet gasket and packing
B21-F019	Replaced packing
B21-F022A	Adjusted limit switch
E41-F012	Replaced pressure switch, unshorted grounded wires, replaced heat stressed wire
CAC-V5	Replaced solenoid valve
CAC-V6	Repaired operator installed new flex conduit, adjusted limit switches, stroked valve
CAC-V8	Adjusted limit switch
B21-F019	Replaced limit switch gear boxes, stroked valve
B21-F016	Replaced limit switch gear boxes and stroked valve

A.3. June 1979-Februrary, 1980

During this period the following repairs and/or maintenance were performed on the containment isolation valves.

Valve	Repair/Maintenance
X101C	Repaired cracked test connection at the penetration.

A.4. 1980 Local Leak Rate Test Program (3/80 - 9/80)

During this period, periodic maintenance and planned modifications were performed on specific instrument isolation valves. Additionally, isolation valves which were unable to pass a local leak rate test or which evidenced excessive leakage were repaired. These are described below.

Valve	Modification/Maintenance/Repair
B21-F042B	Tightened coupling on rip valve
E11-F037A	Tightened fitting between solenoid and rip valve
E51-F040	Replaced gasket, set screw, hinge pin, hinge bushings and disc nut
E11-F022	Repacked valve, stroked valve
E51-F001	Lapped disc and seat
B32-V22	Fabricated new valve stem, stroked valve
CAC-V47	Rebuilt operator
E21-F015B	Replaced bonnet gasket, replaced packing, cleaned stem and gland, stroked valve
CAC-V7	Reinstalled stem key in operator
E51-F007	Repacked valve
CAC-V48	Reconnected air line, installed new operator, stroked valve
CAC-V22	Tightened connection on coil of relay, adjusted stroke
CAC-V5	Cleaned 2-way and 4-way solenoid valves

A.4. 1980 LLRT Program (3/80-9/80)

During this period, periodic maintenance and planned modifications were performed on specific instrument isolation valves. Additionally, isolation valves which were unable to pass a local leak rate test or which evidenced excessive leakage were repaired. These are described below.

Valve	Modification/Maintenance/Repair
B21-F010A	Installed new tilting disc lift check valve
B21-F010B	Installed new tilting disc lift check valve
TIP-V4	Replace the valve
E11-F011A	Lapped the seat
X225A X225B	Added penetrations for later use to be coupled with TMI-related wide range Torus Level instrumentation (consisted of a capped line with isolation valve CAC-V155 and CAC-V156 respectively).

A.5. October, 1980 - March, 1982

During this period, the following repairs and/or maintenance was performed on the containment isolation valves.

Valve	Repair/Maintenance
CAD-V55	Replaced stem bushing "O" ring, stroked valve
CAD-V56	Replaced stem bushing "O" ring, stroked valve
E51-F040	Replaced hinge, lapped disc, tack-welded disc screws, installed new bonnet gasket
B21-F028C	Replaced valve disc, stems, junk ring and bonnet gasket, installed missing stem disc pin
E11-F009	Installed new motor, stroked valve
CAC-V47	Replaced diaphragm
CAC-V7	Replaced diaphragm and "O" ring, adjusted valve stops and bettis operator packing
CAC-V8	Cleaned seats, adjusted valve stops and bettis operator packing
B21-F028B	Replaced valve stem, disc, pins, lantern ring, junk ring and gasket
B32-F019	Tightened bonnet, stroked valve
B21-F032A	Installed new packing rings
B21-F028A,B,C,D	Installed all new packing rings
E11-F015A	Installed all new packing rings, cleaned gland union
B21-F032A,B	Installed all new packing rings, lubricated valve stem
B21-F019	Installed all new packing rings
CAC-V17	Installed new 3-way solenoid, secured cam shaft spring
CAC-V7	Repositioned and tightened open limit switch
CAC-V9	Replaced solenoid, stroked valve
B21-F028D	Tightened fitting on air valve
CAC-V22	Replaced torque switch
B21-F028D	Charged valve with nitrogen
E11-F009	Replaced poor wiring insulation
B21-F022A,B,C,D	Adjusted limit switches, stroked valves
B21-F022C	Repositioned actuator and tightened bolt
CAC-V23	Replaced torque switch
B21-F060	Replaced RIP valve control switch
B21-F022A,B	Replaced lower limit switch
B21-F008	Replaced RIP valve control switch
G31-F001	Replaced packing

A.6. 1982 Local Leak Rate Test Program

During this period, periodic maintenance and planned modifications were performed on specific containment isolation valves. Additionally, isolation valves which were unable to pass a local leak rate test or which evidenced excessive leakage were repaired. These are detailed below.

Valves	Repair/Maintenance
CAC-V47	Lapped seat and disc, replaced stem packing
CAC-V48	Tightened stem packing, set stroke
CAC-V6	Installed new seals in actuator, replaced seat, repaired disc, repacked valve, set stops
CAC-V5	Rebuilt valve, installed new seat, "O" ring and packing, set stroke
CAC-V15	Cleaned seat and disc, repacked stem, set limit switch
CAC-V55	Cleaned, reassembled, set limit switch
CAC-V56	Cleaned, reassembled, set limit switch
CAC-V7	Installed new disc and seat, adjusted limit switch, set stops
CAC-V8	Replaced seal ring, backup ring and retainer ring
CAC-V23	Reset stops
CAC-V9	Installed new seals and "O" rings, set stops
CAC-V10	Cleaned internals, replaced seals and "O" rings
CAC-V16	Replaced valve body, adjusted stem packing, set stops
CAC-V17	Tightened packing, adjusted actuator, set stops
CAC-X20A	Replaced seal, cleaned seat and disc
CAC-V49	Replaced seal ring, backup ring, and retaining ring, repacked valve
CAC-V50	Replaced body seal ring, backup ring, and retaining ring, cleaned disc
CAC-PV1227C	Adjusted limit switch
E11-F020A	Cleaned valve internals
E11-F043B	Tightened fittings on instrument valve
E11-F043C	Replaced control switch
E11-F037C	Tightened fittings on instrument valve
E11-F015B	Repaired lock nut and threads inside operator, tightened packing
E21-F002A	Cleaned valve internals
E21-F031B	Replaced gasket and packing and cleaned valve internals
E41-F002	Adjusted limit switches
E41-F003	Adjusted limit switches
E41-F042	Repacked valve
E41-PV121D, 1220D	Tightened bonnet assembly and fittings around valves

Valve	Repair/Maintenance
G31-F001	Replaced motor
G31-F004	Replaced disc, lapped disc and seat, replaced packing
E51-F001	Repacked valve
E51-F007	Repacked valve, replaced motor, cleaned internals, set stops
E51-F008	Set stops
V32-V22	Machined stems, replaced limitorque washers, adjusted stops
B32-V30	Installed new globe valve to replace gate valve with disc crushed through seat and damaged stem
B21-F010B	Cleaned valve internals
B21-F032A	Cleaned, rebuilt and repacked valve
E41-F006	Cleaned and rebuilt valve
X100B	Repaired tubing, replaced gauge, tightened fittings
X100E	Repaired tubing, replaced gauge, tightened fittings
X104A	Repaired tubing, replaced gauge, tightened fittings
CAC-PV1227E	Tightened electrical connections
CAC-X20A	Replaced seal
VAC-BRKR X18A,X18C,X18E	Cleaned valve seats

A.6. 1982 Local Leak Rate Test Program

During this period, periodic maintenance and/or planned modifications were performed on specific containment isolation valves. General Physics' ILRT omitted the following maintenance.

CAC-V4	Set close and open position; adjusted packing
CAC-PV1227E	Corrected indicator light
CAC-PV1260	Trouble Ticket written, no trouble found, LLRT rerun sat.
CAC-PV1211F	Tightened tubing fittings in monitor and connections
CAC-PV1262	Tightened tubing fittings in monitor and connections
CAC-PV1209A	Tubing fittings tightened
CAC-PV1205E	Disassembled and replaced body of operator
CAC-PV1215E	Trouble Ticket written but voided after retest
CAC-PV3439	Trouble Ticket written; LLRT rerun sat. before repairs
CAC-PV1225C	Tightened pipe at PT 2685-1
E11-F043D	Disassembled valve and repair
E21-F002A	Cleaned valve internals
E41-PV1213D	Tightened bonnet assembly to line connection and fittings
E41-PV1220D	Tightened bonnet assembly to line connection and fittings
E51-F019	Had operations recycle valve
TD-V2	Tightened handwheel nut, realigned and adjusted packing
B21-F010A	Trouble Ticket written; voided after retest sat.
B21-F032B	Packing adjusted
B21-F022A,B,C,D	Upgraded stem/disc assembly
B21-F028A,B,C,D	Upgraded stem/disc assembly
E11-V20,V21	Replaced valves with newly designed safety relief valves
C12-F083	Removed from system, penetration cut and capped

B. SUMMARY OF LOCAL LEAK RATE TESTS

B.1. 1979 Local Leak Rate Test Results

Table follows. (Note 1)

B.2. 1980 Local Leak Rate Test Results

Table follows.

B.3. 1982 Local Leak Rate Test Results

Table follows.

Note 1: The historical file of the 1979 LLRT's shows that all of the penetrations passed without any failures. Therefore, maintaining the format to be used for this section, all thoses penetrations/valves for which there is only a single satisfactory test have the same results listed for the "as found" and the "as left" leakage. In 1979, there were some LLRT's that failed (as evidenced by various trouble tickets), however, due to the lack of any failed LLRT's in the historical files, these failed LLRT's could not be listed. The valves/penetrations which are known to have had maintenance in 1979 are listed in Section III A.1 and III A.2. Theses valves/penetrations are also asterisked in the listing of the 1979 LLRT's to differenentiate them from the other valves/penetrations.

1979

LOCAL LEAK RATE TEST RESULTS

1979 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
H-1	Equipment Hatch	X1	4/20	.0		.0
H-2	Personnel Lock	X2	4/19	.0		.0
H-3	Drywell Head Blank	X3	4/11	.0		.0
H-4	Drywell Head Access	X4	4/11	.0		.0
H-5	CRD Hatch	X6	5/8	.0		.0
H-6	Torus (S-CS) Access	X200A	5/10	.0		.0
H-7	Torus (N-CS) Access	X200B	5/2	.0		.0
H-8	Drywell/Drywell Head Seal	N/A	5/1	3.955		3.955
Alt. Air-Lock		N/A	7/6	.0		.0
MSIV "A"*	B21-F022A, F028A	X7A	4/10	.0		.0
MSIV "B"*	B21-F022B, F028B	X7B	3/3	1.95		1.95
MSIV "C"*	B21-F022C, F028C	X7C	3/3	3.89		3.89
MSIV "D"*	B21-F022D, F028D	X7D	4/17	19.0		19.0
B21-1*	B21-F010A	X9A	4/21	3.94		3.94
B21-2	B21-F010B	X9B	4/21	32.505		32.505
B21-3*	B21-F032A, E41-F006	X9A	4/21	1.97		1.97
B21-4*	G31-F039, B21-F032B, E51-F013	X9B	4/21	5.91		5.91
B21-5*	B21-F016, F019	X8	4/5	.0		.0
B32-1*	B32-V22, V30	X62A, X78A	5/8	.0		.0
B32-2	B32-F019, F020	X56E	4/23	12.76		12.76
C12(C11)-1	B12(C11)-F083	X36	4/23	.89		.89
C41-1	C41-F006	X42	4/12	.0		.0
E11-1 *	E11-F008, F009	X12	4/10	.0		.0
E11-2	E11-F011A	X210A	4/10	2.47		2.47
E11-3	E11-F011B	X210B	5/5	.0		.0
E11-4	E11-F015A, F017A	X13A	3/21	.0		.0
E11-5	E11-F015B, F017B	X13B	3/21	.0		.0
E11-6	E11-F016A, F021A	X39A	4/17	.0		.0
E11-7	E11-F016B, F021B	X39B	4/30	2.472		2.472
E11-8	E11-F020A	X225A	4/10	.0		.0
E11-9	E11-F020B	X225B	4/19	2.58		2.58
E11-10	E11-F022, F023	X17	3/21	.0		.0

1979 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E11-11 *	E11-F024A, F027A, F028A	X210A, X211A	4/13	.875		.875
E11-12 *	E11-FO24B, F027B, F028B	X210B, X211B	3/23	1.515		1.515
E11-13	E11-F025A	X210A	4/13	.0		.0
E11-14	E11-F025B	X210B	5/5	.0		.0
E21-1	E21-F001A	X227A	4/20	.744		.744
E21-2	E21-F001B	X227B	4/26	.0		.0
E21-3	E21-F004A, F005A	X16A	4/19	.0		.0
E21-4	321-F004B, F005B	X16B	5/1	.0		.0
E21-5 *	E21-F015A	X223A	4/24	.0		.0
E21-6	E21-F015B	X223B	4/26	.0		.0
E21-7	E21-F031A	X223A	4/24	.0		.0
E21-8	E21-F031B	X223B	4/25	.0		.0
E41-1 *	E41-F002, F003	X11	3/20	4.008		4.008
E41-2 *	E41-F012, F046	X210B	5/6	.0		.0
E41-3 *	E41-F021, F049	X214	4/25	.95		.95
E41-4	E41-F022, F040	X222	3/7	.743		.743
E41-5	E41-F041, F042	X226	3/7	2.278		2.278
E41-6	E41-F075, FO79	X214, X218	3/7	.0		.0
E51-1 *	E51-F001, F040	X212	4/4	.834		.834
E51-2	E51-F002, F028	X221	3/6	.0		.0
E51-3	E51-F005, F008	X10	3/20	4.008		4.008
E51-4	E51-F019, F020	X210B	4/24	.0		.0
E51-5	E51-F029, F031	X224	3/6	.0		.0
E51-6	E51-F062, F066	X212, X216	3/6	.743		.743
G16-1	G16-F003, F004	X18	4/23	1.948		1.948
G16-2 *	G16-F019, F020	X19	4/23	9.837		9.837
G31-1 *	G31-F001, F004	X14	5/1	.0		.0
TD-1	TD-V22, V1	X231	4/18	.743		.743
TD-2	TD-V23	X231	4/18	1.189		1.189
RCC-1	RCC-V28, V52(V53) RCC-PV1222B(SV826), PV1222C(SV827)	X23, X24, X77B, X77C	4/20	.0		.0
CAC-1 *	CAC-V47	X205	4/11	.0		.0

1979 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
CAC-2 *	CAC-V48	X25	3/22	.0		.0
CAC-3 *	CAC-V4, V5, V6, V15, V55, V56	X25, X205	4/17	4.0		4.0
CAC-4 *	CAC-V7, V8, V22	X220	4/17	7.0		7.0
CAC-5	CAC-V9, V10, V23	X26	3/21	8.8		8.8
CAC-6	CAC-X20A, V16	X205	4/25	1.734		1.734
CAC-7	CAC-X20B, V17	X205	4/25	.0		.0
CAC-8 *	CAC-V49, V50	X3B	4/11	1.494		1.494
CAC-9	CAC-PV1200B	X49B	3/16	.4		.4
CAC-10	CAC-PV1261	X49B	3/16	.0		.0
CAC-11	CAC-PV1227A	X73A	3/8	.0		.0
CAC-12	CAC-PV1227B	X73B	3/8	.0		.0
CAC-13	CAC-PV1227C	X73C	3/8	.0		.0
CAC-14	CAC-PV1227E	X73E	3/8	.0		.0
CAC-15	CAC-PV1260	X73C	3/8	.0		.0
CAC-16	CAC-PV1231B	X244B	3/8	.0		.0
CAC-17	CAC-PV3440	X76B	3/8	.0		.0
CAC-18	CAC-PV1225B	X76B	3/8	.0		.0
CAC-19	CAC-PV1221F	X54F	3/16	.0		.0
CAC-20	CAC-PV1262	X54F	3/16	.0		.0
CAC-21	CAC-PV1209A	X57A	3/19	.0		.0
CAC-22	CAC-PV1209B	X57B	3/19	.0		.0
CAC-23	CAC-PV1205E	X60E	3/19	.0		.0
CAC-24	CAC-PV1215E	X245E	3/19	.0		.0
CAC-25	CAC-PV1221E	X54E	3/19	.0		.0
CAC-26	CAC-PV3439	X54E	3/19	.0		.0
CAC-27	CAC-PV3441	X76B	3/8	.0		.0
CAC-28	CAC-PV3442	X76B	3/8	.0		.0
CAC-29	CAC-PV3437	X54E	3/19	.0		.0
CAC-30	CAC-PV3438	X54E	3/19	.0		.0
SA-1	SA-V448	X21	4/20	1.266		1.266
SA-2	SA-V449	X21	4/20	1.266		1.266
RNA-1 *	RNA-V101	X55	5/4	.0		.0
RNA-2 *	RNA-V103	X71	5/4	.0		.0
RNA-3 *	RNA-PV1201A	X82A	4/24	.0		.0

1979 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
RNA-4 *	RNA-PV1204B	X62B	4/24	.0		.0
RNA-5 *	RNA-PV1204C	X62C	4/24	.0		.0
RNA-6 *	RNA-PV1217E	X69E	4/24	.0		.0
TIP-1	TIP-V1	X35A	4/20	.0		.0
TIP-2	TIP-V2	X35B	4/20	.0		.0
TIP-3	TIP-V3	X35C	4/20	.0		.0
TIP-4	TIP-V4	X35D	4/20	.0		.0
TIP-5	TIP N_2 Check	X35E	4/11	.0		.0
TIP-6	TIP N_2 Solenoid	X35E	4/11	.0		.0
E-1		X100A	1/22	.0		.0
E-2		X100B	1/22	.0		.0
E-3		X100C	1/22	.0		.0
E-4		X100D	1/22	.0		.0
E-5		X100E	1/22	.0		.0
E-6		X100F	1/26	.0		.0
E-7		X100G	1/26	.0		.0
E-8		X100H	1/26	.0		.0
E-9		X101A	1/23	.0		.0
E-10		X101C	1/23	.0		.0
E-11		X101D	1/26	.0		.0
E-12		X101F	1/26	.0		.0
E-13		X102A	1/23	.0		.0
E-14		X102B	1/23	.0		.0
E-15		X102C	1/25	.0		.0
E-16		X102E	1/23	.0		.0
E-17		X102F	1/26	.0		.0
E-18		X102H	1/26	.0		.0
E-19		X103A	1/29	.0		.0
E-20		X103B	1/26	.0		.0
E-21		X104A	1/23	.0		.0
E-22		X104B	1/23	.0		.0
E-23		X104C	1/25	.0		.0
E-24		X104E	1/23	.0		.0
E-25		X104F	1/26	.0		.0
E-26		X104G	1/26	.0		.0

1979 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E-27		X105B	1/22	.0		.0
E-28		X105C	1/22	.0		.0
E-29		X105D	1/23	.0		.0
E-30		X105E	1/23	.0		.0
E-31		X105G	1/25	.0		.0
E-32		X105H	1/25	.0		.0
E-33		X105J	1/26	.0		.0
E-34		X105K	1/26	.0		.0
E-35		X232B	1/29	.0		.0
E-36		X232C	1/29	.0		.0
M-1	TIP 'A' Flange	X35A	4/11	.0		.0
M-2	TIP 'B' Flange	X35B	4/11	.0		.0
M-3	TIP 'C' Flange	X35C	4/11	.0		.0
M-4	TIP 'D' Flange	X35D	4/11	.0		.0
M-5	TIP N_2 Flange	X35E	4/11	.0		.0
M-6	CAC-V49 (Inboard '0')	X3B	4/11	.0		.0
M-7	CAC-V5 (Inboard '0')	X205	4/25	.0		.0
M-8	CAC-V6 (Inboard '0') CAC-V30, V31	X25	4/20	.0		.0
M-9	CAC-V7 (Inboard '0') CAC-V32, V33	X220	4/20	.0		.0
M-10	CAC-V9 (Inboard '0') CAC-V38, V43	X26	4/12	.0		.0
M-11	CAC-V16 (Inboard '0') CAC-V13, V14	X205	4/25	.0		.0
M-12	CAC-V17 (Inboard '0') CAC-V1, V2	X205	4/25	.0		.0

1980

LOCAL LEAK RATE TEST RESULT

1980 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
H-1	Equipment Hatch	X1	5/14	.25		.25
H-2	Personnel Lock	X2	5/14	.11		.11
H-3	Drywell Head Blank	X3	3/25	.0		.0
H-4	Drywell Head Access	X4	3/25	.0		.0
H-5	CRD Hatch	X6	9/2	.0		.0
H-6	Torus (S-CS) Access	X200A	7/28	.0		.0
H-7	Torus (N-CS) Access	X200B	7/31	.04		.04
H-8	Drywell/Drywell Head Seal	N/A	5/21	.25		.25
Alt. Air-Lock		N/A	9/30	9.24		9.24
MSIV "A"	B21-F022A, F028A	X7A	3/1	6.89		6.89
MSIV "B"	B21-F022B, F028B	X7B	3/1	10.17		10.17
MSIV "C"	B21-F022C, F028C	X7C	3/1	8.16		8.16
MSIV "D"	B21-F022D, F028D	X7D	3/1	11.02		11.02
B21-1	B21-F010A	X9A	4/3	.0		.0
B21-2	B21-F010B	X9B	3/31	1.23		1.23
B21-3	B21-F032A, E41-F006	X9A	5/22	.93		.93
B21-4	G31-F039, B21-F032B, E51-F013	X9B	6/6	4.0		4.0
B21-5	B21-F016, F019	X8	3/13	.0		.0
B32-1	B32-V22, V30	X62A, X78A	6/30	.0		.0
B32-2	B32-F019, F020	X56E	3/18	.0		.0
C12(C11)-1	B12(C11)-F083	X36	3/20	.0		.0
C41-1	C41-F006	X42	5/29	.3		.3
E11-1	E11-F008, F009	X12	6/25	.250		.250
E11-2	E11-F011A	X210A	5/29	>100.0	6/6	2.97
E11-3	E11-F011B	X210B	6/6	3.98		3.98
E11-4	E11-F015A, F017A	X13A	3/18	.0		.0
E11-5	E11-F015B, F017B	X13B	6/6	2.33		2.33
E11-6	E11-F016A, F021A	X39A	3/11	1.91		1.91
E11-7	E11-F016B, F021B	X39B	5/8	2.386		2.386
E11-8	E11-F020A	X225A	3/8	.17		.17
E11-9	E11-F020B	X225B	4/27	8.1		8.1
E11-10	E11-F022, F023	X17	4/27	.0		.0

1980 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E11-11	E11-F024A, F027A, F028A	X210A, X211A	6/25	.64		.64
E11-12	E11-FO24B, F027B, F028B	X210B, X211B	6/10	.93		.93
E11-13	E11-F025A	X210A	6/25	.0		.0
E11-14	E11-F025B	X210B	6/10	.0		.0
E21-1	E21-F001A	X227A	3/20	8.48		8.48
E21-2	E21-F001B	X227B	3/25	10.37		10.37
E21-3	E21-F004A, F005A	X16A	3/21	.0		.0
E21-4	E21-F004B, F005B	X16B	4/16	.0		.0
E21-5	E21-F015A	X223A	3/21	.58		.58
E21-6	E21-F015B	X223B	8/1	.42		.42
E21-7	E21-F031A	X223A	3/21	.84		.84
E21-8	E21-F031B	X223B	4/9	.0		.0
E41-1	E41-F002, F003	X11	3/26	.0		.0
E41-2	E41-F012, F046	X210B	3/17	.0		.0
E41-3	E41-F021, F049	X214	4/7	.0		.0
E41-4	E41-F022, F040	X222	3/11	.21		.21
E41-5	E41-F041, F042	X226	3/26	.0		.0
E41-6	E41-F075, FO79	X214, X218	3/17	.0		.0
E51-1	E51-F001, F040	X212	3/22	>100.0	6/26	5.93
E51-2	E51-F002, F028	X221	3/22	5.95		5.95
E51-3	E51-F007, F008	X10	3/26	2.91		2.91
E51-4	E51-F019, F020	X210B	4/1	.53		.53
E51-5	E51-F029, F031	X224	3/17	.0		.0
E51-6	E51-F062, F066	X212, X216	4/1	1.06		1.06
G16-1	G16-F003, F004	X18	3/13	.25		.25
G16-2	G16-F019, F020	X19	3/19	.38		.38
G31-1	G31-F001, F004	X14	3/21	.0		.0
TD-1	TD-V22, V1	X231	3/17	2.33		2.33
TD-2	TD-V23	X231	3/14	.0		.0
RCC-1	RCC-V28, V52(V53) RCC-PV1222B(SV826), PV1222C(SV827)	X23, X24, X77B, X77C	6/30	.53		.53
SA-1	SA-V448	X21	5/3	.0		.0

1980 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND		AS LEFT	
			DATE	LEAKAGE (SCFH)	DATE	LEAKAGE (SCFH)
SA-2	SA-V449	X21	5/3	.0		.0
CAC-1	CAC-V47	X205	6/7	.0		.0
CAC-2	CAC-V48	X25	6/10	.0		.0
CAC-3	CAC-V4, V5, V6, V15, V55, V56	X25, X205	3/24	>100.0	6/10	4.24
CAC-4	CAC-V7, V8, V22	X220	6/11	10.6		10.6
CAC-5	CAC-V9, V10, V23	X26	4/19	8.48		8.48
CAC-6	CAC-X20A, V16	X205	3/25	>100.0	6/5	.38
CAC-7	CAC-X20B, V17	X205	3/24	3.18		3.18
CAC-8	CAC-V49, V50	X3B	3/25	.0		.0
CAC-9	CAC-PV1200B	X49B	3/20	1.30		1.30
CAC-10	CAC-PV1261	X49B	3/20	.0		.0
CAC-11	CAC-PV1227A	X73A	3/18	.0		.0
CAC-12	CAC-PV1227B	X73B	3/18	.0		.0
CAC-13	CAC-PV1227C	X73C	3/18	.0		.0
CAC-14	CAC-PV1227E	X73E	3/17	2.71		2.71
CAC-15	CAC-PV1260	X73E	3/17	2.71		2.71
CAC-16	CAC-PV1231B	X244B	3/17	.0		.0
CAC-17	CAC-PV3440	X76B	3/17	2.59		2.59
CAC-18	CAC-PV1225B	X76B	3/17	2.78		2.78
CAC-19	CAC-PV1221F	X54F	3/17	2.69		2.69
CAC-20	CAC-PV1262	X54F	3/17	2.69		2.69
CAC-21	CAC-PV1209A	X57A	3/18	.0		.0
CAC-22	CAC-PV1209B	X57B	3/18	.0		.0
CAC-23	CAC-PV1205E	X60E	3/18	.0		.0
CAC-24	CAC-PV1215E	X245E	3/19	.0		.0
CAC-25	CAC-PV1221E	X54E	3/19	2.16		2.16
CAC-26	CAC-PV3439	X54E	3/17	3.24		3.24
CAC-27	CAC-PV3441	X76B	3/17	2.72		2.72
CAC-28	CAC-PV3442	X76B	3/17	2.73		2.73
CAC-29	CAC-PV3437	X54E	3/17	2.78		2.78
CAC-30	CAC-PV3438	X54E	3/18	2.80		2.80
RNA-1	RNA-V101	X55	5/6	8.67		8.67
RNA-2	RNA-V103	X71	5/5	1.99		1.99
RNA-3	RNA-PV1201A	X82A	4/10	.295		.295

1980 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND		AS LEFT	
			DATE	LEAKAGE (SCFH)	DATE	LEAKAGE (SCFH)
RNA-4	RNA-PV1204B	X62B	4/10	1.30		1.30
RNA-5	RNA-PV1204C	X62C	4/10	1.30		1.30
RNA-6	RNA-PV1217E	X69E	4/10	.76		.76
TIP-1	TIP-V1	X35A	3/26	.0		.0
TIP-2	TIP-V2	X35B	3/26	.0		.0
TIP-3	TIP-V3	X35C	3/26	.0		.0
TIP-4	TIP-V4	X35D	3/26	>100.0	6/4	.319
TIP-5	TIP N_2 Check	X35E	3/26	2.12		2.12
TIP-6	TIP N_2 Solenoid	X35E	3/26	.0		.0
E-1		X100A	1/28	.0		.0
E-2		X100B	1/28	.42		.42
E-3		X100C	1/28	.0		.0
E-4		X100D	1/28	.0		.0
E-5		X100E	2/1	.0		.0
E-6		X100F	2/1	.0		.0
E-7		X100G	2/1	.0		.0
E-8		X100H	2/1	.0		.0
E-9		X101A	1/30	.0		.0
E-10		X101C	1/30	14.0	3/27	.0
E-11		X101D	1/31	.0		.0
E-12		X101F	1/31	.0		.0
E-13		X102A	1/28	.0		.0
E-14		X102B	1/29	.0		.0
E-15		X102C	1/30	.0		.0
E-16		X102E	2/4	.0		.0
E-17		X102F	2/1	.0		.0
E-18		X102H	2/12	.04		.04
E-19		X103A	1/28	.0		.0
E-20		X103B	2/1	.0		.0
E-21		X104A	1/28	.0		.0
E-22		X104B	1/29	.0		.0
E-23		X104C	1/31	.04		.04
E-24		X104E	2/4	.0		.0
E-25		X104F	2/1	.0		.0
E-26		X104G	2/1	.0		.0

1980 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E-27		X105B	1/29	.0		.0
E-28		X105C	1/29	.0		.0
E-29		X105D	1/30	.0		.0
E-30		X105E	1/30	.42		.42
E-31		X105G	1/31	.0		.0
E-32		X105H	1/31	.0		.0
E-33		X105J	1/31	.0		.0
E-34		X105K	1/31	.0		.0
E-35		X232B	2/4	.0		.0
E-36		X232C	2/4	.0		.0
M-1	TIP 'A' Flange	X35A	3/28	.0		.0
M-2	TIP 'B' Flange	X35B	3/28	.0		.0
M-3	TIP 'C' Flange	X35C	3/28	.0		.0
M-4	TIP 'D' Flange	X35D	3/28	.0		.0
M-5	TIP N_2 Flange	X35E	3/28	.0		.0
M-6	CAC-V49 (Inboard '0')	X3B	3/25	.0		.0
M-7	CAC-V5 (Inboard '0')	X205	6/10	.0		.0
M-8	CAC-V6 (Inboard '0')		6/10	.0		.0
	CAC-V30, V31	X25				
M-9	CAC-V7 (Inboard '0')					
	CAC-V32, V33	X220	6/11	.0		.0
M-10	CAC-V9 (Inboard '0')					
	CAC-V38, V43	X26	4/19	.0		.0
M-11	CAC-V16 (Inboard '0')					
	CAC-V13, V14	X205	3/24	.0		.0
M-12	CAC-V17 (Inboard '0')					
	CAC-V1, V2	X205	3/24	.15		.15

1982

LOCAL LEAK RATE TEST RESULTS

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND		AS LEFT	
			DATE	LEAKAGE (SCFH)	DATE	LEAKAGE (SCFH)
CAC-1	CAC-V47	X205	6/11	.0	9/5	.0
CAC-2	CAC-V48	X25	6/11	.0	9/25	.716
CAC-3	CAC-V4, V5, V6 V15, V55, V[illegible]	X25 & X205	5/4	off-scale	9/12	2.536
CAC-4	CAC-V7, V[illegible]	X220	5/7	off-scale	9/24	1.3703
CAC-5	CAC-V9, V10 [illegible]	X26	5/13	14.85	9/3	.0
CAC-6	CAC-X20A, V[illegible]	X205	5/1	off-scale	9/2	.0
CAC-7	CAC-X20B, [illegible]	X205	5/1	50.1	9/5	.0
CAC-8	CAC-V49, V[illegible]	X3B	6/12	1.8879	9/5	.0
CAC-9	CAC-PV1200B	X49B	6/19	.172		.172
CAC-10	CAC-PV1261	X49B	6/19	.0		.0
CAC-11	CAC-PV1227A	X73A	6/11	.0929		.0929
CAC-12	CAC-PV1227B	X73B	6/11	.2826		.2826
CAC-13	CAC-PV1227C	X73C	6/18	2.012	6/25	.0
CAC-14	CAC-PV1227E	X73E	6/18	off-scale	6/23	.0
CAC-15	CAC-PV1260	X73C	6/18	5.583	9/26	.0
CAC-16	CAC-PV1231B	X244B	6/11	.0		.0
CAC-17	CAC-PV3440	X76B	6/19	.0		.0
CAC-18	CAC-PV1225B	X76B	6/19	.0		.0
CAC-19	CAC-PV1211F	X54F	6/19	1.155	6/25	.0
CAC-20	CAC-PV1262	X54F	6/19	.8365	6/25	.0
CAC-21	CAC-PV1209A	X57A	6/11	.6154	6/25	.0
CAC-22	CAC-PV1209B	X57B	6/11	.0		.0
CAC-23	CAC-PV1205E	X60E	6/11	.0	9/11	1.792
CAC-24	CAC-PV1215E	X245E	6/11	7.85	9/16	.3874
CAC-25	CAC-PV1211E	X54E	6/13	32.08	6/22	.0
CAC-26	CAC-PV3439	X54E	6/14	32.08	6/20	.0
CAC-27	CAC-PV3441	X76B	6/19	.0		.0
CAC-28	CAC-PV3442	X76B	6/19	.0		.0
CAC-29	CAC-PV3437	X54E	6/17	.0		.0
CAC-30	CAC-PV3438	X54E	6/17	.062		.062
CAC-31	CAC-SV1263-1	X245E	6/18	.0		.0
CAC-33	CAC-SV1259-4	X73A	6/19	.0		.0
CAC-34	CAC-SV1259-3	X73B	6/18	.0		.0
CAC-35	CAC-SV1259-2	X73E	6/18	.0		.0

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
CAC-36	CAC-SV1259-1	X244B	6/18	.0		.0
CAC-37	CAC-PV1225-C	X76C	6/16	2.25	6/25	.0
CAC-38	CAC-PV1219-B	X206B-B	6/18	.0		.0
CAC-39	CAC-PV1220-C	X206C-C	6/18	.0		.0
CAC-40	CAC-PV1218-C	X206A-C	6/18	.0		.0
CAC-41	CAC-PV1221-C	X206D-C	6/18	.0		.0
CAC-42	CAC-PV1219-C	X206B-C	6/18	.0		.0
CAC-43	CAC-PV1209-D	X57D	6/18	1.826		1.826
CAC-44	CAC-SV1263-4	X57A	6/18	.0		.0
CAC-45	CAC-SV1263-3	X57B	6/18	.0		.0
CAC-46	CAC-SV1263-2	X60E	6/18	.0		.0
CAC-46*	CAC-SV1213A	X209B	7/27	.0		.0
CAC-47*	CAC-SV1218A	X206A-A	7/27	.0		.0
H-1	Equipment Hatch	X1	6/4	.0		.0
H-2	Personnel Hatch to Drywell Liner Seal	X2	6/6	.394		.394
H-3	Drywell Head Blank	X3	7/1	.0		.0
H-4	Drywell Head Access Hatch	X4	7/1	.0		.0
H-5	CRD Hatch	X6	7/7	.0	9/10	.0
H-6	Suppression Chamber Access Hatch (South Core Spray Room)	X200A	7/6	.0	8/2	.0
H-7	Suppresson Chamber Access Hatch (North Core Spray Room)	X200B	7/7	.0	9/24	.0
H-8	Drywell to Drywell Head Seal	N/A	7/1	.0		.0
Airlock		N/A	7/6	.166		.166
E-1		X100A	4/28	.0		.0
E-2		X100B	4/27	off-scale	5/16	.0

* New Test Numbers

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E-3		X100C	4/28	.0		.0
E-4		X100D	4/28	.0		.0
E-5		X100E	5/2	off-scale	5/16	.0
E-6		X100F	5/2	.0		.0
E-7		X100G	5/2	.0		.0
E-8		X100H	5/2	.0		.0
E-9		X101A	5/1	.0		.0
E-10		X101C	5/1	.0		.0
E-11		X101D	5/3	.0		.0
E-12		X101F	5/3	.0		.0
E-13		X102A	4/28	.0		.0
E-14		X102B	4/28	.0		.0
E-15		X102C	5/1	.0		.0
E-16		X102E	5/2	.0		.0
E-17		X102F	5/2	.0		.0
E-18		X102H	5/3	.0		.0
E-19		X103A	4/30	.0		.0
E-20		X103B	5/2	.0		.0
E-21		X104A	4/30	off-scale	5/25	.0
E-22		X104B	4/28	.0		.0
E-23		X104C	5/1	.0		.0
E-24		X104E	5/2	.0		.0
E-25		X104F	5/2	.0		.0
E-26		X104G	5/3	.0		.0
E-27		X105B	4/30	.0		.0
E-28		X105C	4/30	.0		.0
E-29		X105D	5/1	.0		.0
E-30		X105E	5/1	.0		.0
E-31		X105G	5/1	.0		.0
E-32		X105H	5/1	.0		.0
E-33		X105J	5/3	.0		.0
E-34		X105K	5/3	.0		.0
E-35		X232B	5/6	.0		.0
E-36		X232C	5/5	.0		.0

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
M-1	CAC-V49 (Inboard O-Rings)	X3B	6/12	.0	9/5	.0
M-2	CAC-V5 (Inboard O-Rings)	X205B	6/11	.0	9/12	.0
M-3	CAC-V6 (Inboard O-Rings)	X25	6/11	.0	9/12	.0
M-4	CAC-V7 (Inboard O-Rings)	X220	6/4	.559	9/1	.0
M-5	CAC-V9 (Inboard O-Rings)	X26	5/13	.0	9/1	.0
M-6	CAC-V16 (Inboard O-Rings)	X205	5/1	.0	9/2	.0
M-7	CAC-V17 (Inboard O-Rings)	X205	5/1	.0	9/2	.0
E11-1	E11-F008 & E11-F009	X12	5/22	2.487		2.487
E11-2	E11-F011A	X210A	5/23	.0916		.0916
E11-3	E11-F011B	X210B	5/4	3.644		3.644
E11-4	E11-F015A & E11-F017A	X13A	5/23	.0	8/23	1.547
E11-5	E11-F015B & E11-F017B	X13B	5/3	1.599	8/24	2.498
E11-6	E11-F016A & E11-F021A	X39A	5/27	.7263		.7263
E11-7	E11-F016B & E11-F021B	X39B	5/2	.0		.0
E11-8	E11-F020A	X225A	5/31	off-scale	6/16	12.784
E11-9	E11-F020B	X225B	5/3	9.485		9.485
E11-10	E11-F022 & E11-F023	X17	5/3	1.372		1.372
E11-11	E11-F024A & E11-F027A & E11-F028A	X210A & X211A	5/30	.0		.0
E11-12	E11-F024B & E11-F027B & E11-F028B	X210B & X211B	5/8	.0619		.0619
E11-13	E11-F025A	X210A	6/18	.0		.0
E11-14	E11-F025B	X210B	6/18	.0	9/12	.0
E11-15	E11-F037D	X68C	6/18	.0		.0
E11-16	E11-F037B	X68D	6/17	.6709		.6709
E11-17	E11-F043D	X68A	6/17	off-scale	6/20	1.354
E11-18	E11-F043B	X68B	6/18	.0		.0
E11-19	E11-F037C	X51C	6/17	6.138	6/18	.0

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E11-20	E11-F043C	X51A	6/18	.0		.0
E11-21	E11-F043A	X51B	6/18	.0305		.0305
E11-22	E11-F037A	X51D	6/18	.0		.0
E11-23	E11-F097	X210B	8/3	.0		.0
E11-24	E11-F007A	X210A	8/10	.061		.061
E11-25	E11-F007B	X210B	8/10	.610		.610
E11-26	E11-F103A	X214	8/13	.0		.0
E11-27	E11-F103B	X214	8/14	.0		.0
E11-28	E11-F055A Relief Valve	X214	8/13	.714		.714
E11-29	E11-F055B Relief Valve	X214	8/13	.714		.714
E11-30	E11-V20 Relief Valve	X214	8/20	.0		.0
E11-31	E11-V21 Relief Valve	X214	8/19	.0	8/20	.0
E11-32	E11-F029 Relief Valve	X210B	8/14	1.187		1.187
E21-1	E21-F001A	X227A	5/16	off-scale	6/4	.062
E21-2	E21-F001B	X227B	5/9	11.110		11.110
E21-3	E21-F005A & E21-F004A	X16A	5/15	.059	9/3	.0
E21-4	E21-F005B & E21-F004B	X16B	5/8	.0	8/25	.0
E21-5	E21-F015A	X223A	5/27	.943		.943
E21-6	E21-F015B	X223B	5/8	.0		.0
E21-7	E21-F031A	X223A	5/25	.0		.0
E21-8	E21-F031B	X223B	5/9	off-scale	5/31	.726
E41-1	E41-F002 & E41-F003	X11	5/12	4.732	6/30	.0
E41-2	E41-F012	X210B	5/12	.076		.076
E41-3	E41-F042	X226	5/11	31.625	5/30	4.206
E41-4	E41-F022 & E41-F040	X222	6/16	.0		.0
E41-5	E41-F021 & E41-F049	X214	6/15	.715		.715
E41-6	E41-F075 & E41-F079	X214 & X218	6/15	.0		.0
E41-7	E41-PV1218D	X206A-D	6/20	10.886	6/24	.0
E41-8	E41-PV1219D	X206B-D	6/19	.718		.718
E41-9	E41-PV1220D	X206C-D	6/20	10.886	6/24	.0

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND DATE	AS FOUND LEAKAGE (SCFH)	AS LEFT DATE	AS LEFT LEAKAGE (SCFH)
E41-10	E41-PV1221D	X206D-D	6/19	.718		.718
E51-1	E51-F007 & E51-F008	X10	5/17	12.650	7/6	10.813
E51-2	E51-F019	X210B	5/23	7.999	6/27	.0
E51-3	E51-F031	X224	5/21	.0		.0
E51-4	E51-F002 & E51-F028	X221	6/16	.0		.0
E51-5	E51-F001 & E51-F040	X212	6/15	off-scale	6/20	2.932
E51-6	E51-F062 & E51-F066	X212 & 216	6/16	.0		.0
G16-1	G16-F003 & G16-F004	X18	5/22	.0	8/22	.0
G16-2	G16-F019 & G16-F020	X19	5/21	.0		.0
RCC-1	RCC-V28 & V52	X23 & X24	5/22	.0	8/21	1.349
RCC-2	RXS-PV1222B & PV1222C	X77B & X77C	8/21	1.349		1.349
TD-1	TD-V22	X231	5/19	6.325	6/26	.0
TD-2	TD-V23	X231	5/19	.0		.0
SA-1	SA-V448	X21	5/10	.0		.0
SA-2	SA-V449	X21	5/9	.0		.0
RNA-1	RNA-V101	X55	6/18	.0		.0
RNA-2	RNA-V103	X71	6/18	.0		.0
RNA-4	RNA-PV1204B	X62B	6/19	.7184	6/24	.2218
RNA-5	RNA-PV1204C	X62C	6/19	15.539	6/24	.6105
TIP-1	TIP-A Ball Valve	X35A	6/18	1.238		1.238
TIP-2	TIP-B Ball Valve	X35B	6/18	1.037		1.037
TIP-3	TIP-C Ball Valve	X35C	6/18	.7147		.7147
TIP-4	TIP-D Ball Valve	X35D	6/18	4.971		4.971
TIP-5	TIP N_2 Check Valve	X35E	6/18	.0		.0
TIP-6	TIP N_2 Solenoid Valve	X35E	6/18	.0		.0
B32-1	B32-V22, V30	X62A & X78A	5/13	off-scale	8/22	.0
B32-2	B32-F019, F020	X56E	5/5	2.763	8/20	.061
B32-3	B32-V24	X62A	8/11	3.624		3.624
B32-4	B32-V22	X78A	8/13	.174		.174
B21-1	B21-F010A	X9A	5/24	off-scale	6/3	10.397
B21-2	B21-F010B	X9B	5/6	off-scale	6/7	4.075
B21-3	B21-F032A, E41-F006,	X9A	6/3	off-scale	7/5	.0
B21-4	B21-F032B, E51-F013, G31-F039	X9B	5/21	off-scale	6/7	1.882

1982 LOCAL LEAK RATE TEST RESULTS

TEST #	ISOLATION VALVE	PENETRATION	AS FOUND		AS LEFT	
			DATE	LEAKAGE (SCFH)	DATE	LEAKAGE (SCFH)
B21-5	B21-F016, B21-F019	X8	5/7	.0		.0
G31-1	G31-F001, F004	X14	5/5	18.45	8/23	.2767
G31-2	G31-F042	X9B	8/6	6.127		6.127
C41-1	C41-F006	X42	5/10	.7156		.7156
C41-2	C41-F007	X42	8/11	.6104		.6104
MSIV-A	B21-F022A, F028A	X7A	6/6	.0		.0
MSIV-B	B21-F022B, F028B	X7B	5/29	46.763	5/30	.540
MSIV-C	B21-F022C, F028C	X7C	6/6	.0		.0
MSIV-D	B21-F022D, F028D	X7D	5/29	.0		.0
RXS-1	RXS-SV4186	209B-D	7/24	.0		.0
RXS-2	RXS-SV4187	209B-D	7/24	.0		.0
RXS-3	RXS-SV4188	209B-B	7/24	.0		.0
RXS-4	RXS-SV4189	209B-B	7/24	.0		.0

C. PENETRATION LEAKAGE

"As Found" and "As Left" leakages can be determined for each penetration with locally tested isolation valves. These values are based upon the local leak rate tests performed, repairs performed on the isolation valves and the physical arrangement of the isolation valves at the penetration.

Specifically, the maximum penetration leakages can be determined by the formula:

$$L = K\,(P)^{1/2} \qquad \text{equation 1}$$

where:

L = leakage

P = pressure

K = admittance

In the case of valves in parallel,

$$K = K_1 + K_2 \qquad \text{equation 2}$$

Whereas, the admittance for valves in series is:

$$\frac{1}{K} = \left[\frac{1}{K_1^2} + \frac{1}{K_2^2} \right]^{1/2} \qquad (K_1, K_2 \neq 0) \qquad \text{equation 3}$$

$$L = 0 \qquad (K_1 \text{ or } K_2 = 0) \qquad \text{equation 4}$$

The maximum penetration leakages can be determined by the local leak rate tests performed. When isolation valves are tested together (i.e. pressurized between them), the valves act as if they are in parallel. Specifically, the pressure drop across the valves are equal and the total leakage is the sum of the individual leakages. When isolation valves are used for containment integrity (i.e., pressurized on one side), the valves act as if they are in series. Specifically, the total pressure drop is the sum of the pressure drops across each valve and, the leakage across each valve is equal.

It can be shown (Appendix F) that the leakage through a "series valve" penetration is maximum when each valve leaks an equal amount. Therefore, the following conventions apply to the isolation valves:

(1) When both isolation valves in a penetration have been tested separately, the admittance is defined by equation 3 (K_1, $K_2 \neq 0$). If either K_1 or $K_2 = 0$, there is a zero leakage for that penetration.

(2) When both isolation valves on a penetration have been tested together, the maximum admittance is obtained by assuming that each valve leaks an identical amount (see Appendix F) and therefore the leakage is

$$L_s = \frac{L_p}{2\ (2)^{1/2}} \qquad \text{equation 5}$$

L_p = parallel leakage (both isolation valves tested together)

L_s = series leakage

(a) When one of two "tested together" isolation valves has been repaired, the maximum "As Found" series leakage is equal to the "As Left" parallel leakage. (The assumption is that the repaired valve leaked much greater than the non-repaired valve). The "As Left" series leakage is determined by equation 5.

(b) When both of the "tested together" isolation valves have been repaired, the "As Found" and "As Left" leakages are determined by equation 5, above, with the parallel "As Found" and "As Left" leakages, respectively.

PENETRATION	ISOLATION VALVE	TEST	TEST LEAKAGE AS FOUND	TEST LEAKAGE AS LEFT	NOTES	PENETRATION LEAKAGE AS FOUND	PENETRATION LEAKAGE AS LEFT
X3B	CAC-V49,V50	CAC-8	1.8879	.0	c	.667	.0
X7A	B21-F022A, B21-F028A	MSIV "A"	.0	.0	a	.0	.0
X7B	B21-F022B, B21-F028B	MSIV "B"	46.763	.540	a	16.533	.191
X7C	B21-F022C, B21-F028C	MSIV "C"	.0	.0	a	.0	.0
X7D	B21-F022D, B21-F028D	MSIV "D"	.0	.0	a	.0	.0
X8	B21-F016, F019	B21-5	.0	.0	a	.0	.0
X9A	B21-F010A,	B21-1	off-scale	10.397	d	N/A	.0
	B21-F032A, E41-F006	B21-3	off-scale	.0			
X9B	B21-F010B	B21-2	off-scale	4.075	d,f	N/A	3.632
	G31-F039, B21-F032B,						
	E51-F013,	B21-4	off-scale	1.882			
	G31-F042	G31-2	6.127	6.127			
X10	E51-F007, F008	E51-1	12.650	10.813	c	4.472	3.823
X11	E41-F002, F003	E41-1	4.732	.0	c	1.673	.0
X12	E11-F009, F008	E11-1	2.487	2.487	a	.879	.879
X13A	E11-F015A, F017A	E11-4	.0	1.547	a	.0	.547
X13B	E11-F015B, F017B	E11-5	1.599	2.498	b	.846	.883
X14	G31-F001, F004	G31-1	18.45	.2767	c	6.523	.0978
X16A	E21-F005A, F004A	E21-3	.059	.0	a	.021	.0
X16B	E21-F005B, F004A	E21-4	.0	.0	a	.0	.0
X17	E11-F022, F023	E11-10	1.372	1.372	a	.485	.485
X18	G16-F003, F004	G16-1	.0	.0	a	.0	.0
X19	G16-F019, F020	G16-2	.0	.0	a	.0	.0
X21	SA-449	SA-2	.0	.0	d	.0	.0
	SA-448	SA-1	.0	.0			
X23	RCC-V52	RCC-1	.0	1.349	e	.0	1.349
X24	RCC-V28	(see RCC-1, X23)			e	.0	1.349
X25	CAC-V6,V4,V15,						
	V5,V55,V56	CAC-3	off-scale	2.536	h	N/A	.897
	CAC-V48	CAC-2	.0	.716			
X26	CAC-V9,V10,V23	CAC-5	14.85	.0	c	5.250	.0
X35A	TIP "A" Ball	TIP-1	1.238	1.238	e	1.238	1.238
X35B	TIP "B" Ball	TIP-2	1.037	1.037	e	1.037	1.037
X35C	TIP "C" Ball	TIP-3	.7147	.7147	e	.7147	.7147
X35D	TIP "D" Ball	TIP-4	4.971	4.971	e	4.971	4.971

PENETRATION	ISOLATION VALVE	TEST	TEST LEAKAGE AS FOUND	TEST LEAKAGE AS LEFT	NOTES	PENETRATION LEAKAGE AS FOUND	PENETRATION LEAKAGE AS LEFT
X35E	TIP N_2 Check	TIP-5	.0	.0	d	.0	.0
	TIP N_2 Solenoid	TIP-6	.0	.0			
X39A	E11-F021A, F016A	E11-6	.7263	.7263	a	.2568	.2568
X39B	E11-F021B, F016B	E11-7	.0	.0	a	.0	.0
X42	C41-F006	C41-1	.7156	.7156	d	.4644	.4644
	C41-F007	C41-2	.6104	.6104			
X49B	CAC-PV1200B	CAC-9	.172	.172	d	.0	.0
	CAC-PV1261	CAC-10	.0	.0			
X51A	E11-F043C	E11-20	.0	.0	e	.0	.0
X51B	E11-F043A	E11-21	.0305	.0305	e	.0305	.0305
X51C	E11-F037C	E11-19	6.138	.0	e	6.138	.0
X51D	E11-F037A	E11-22	.0	.0	e	.0	.0
X54E	CAC-PV1211E	CAC-25	32.08	.0	d,g	.062	.0
	CAC-PV3439	CAC-26	32.08	.0			
	CAC-PV3438	CAC-30	.062	.062			
	CAC-PV3437	CAC-29	.0	.0			
X54F	CAC-PV1211F	CAC-19	1.155	.0	d	.677	.0
	CAC-PV1262	CAC-20	.8365	.0			
X55	RNA-V101	RNA-1	.0	.0	e	.0	.0
X56E	B32-F019, F020	B32-2	2.763	.061	a	.977	.027
X57A	CAC-PV1209A	CAC-21	.6154	.0	d	.0	.0
	CAC-SV1263-4	CAC-44	.0	.0			
X57B	CAC-PV1209B	CAC-22	.0	.0	d	.0	.0
	CAC-SV1263-3	CAC-45	.0	.0			
X57D	CAC-SV1209D	CAC-43	1.826	1.826	e	1.826	1.826
X60E	CAC-PV1205E	CAC-23	.0	1.792	d	.0	.0
	CAC-SV1863-2	CAC-46	.0	.0			
X62A	B32-V22	B32-1	off-scale	.0	d	3.624	.0
	B32-V24	B32-3	3.624	3.624			
X62B	IA-PV1204B	RNA-4	.7184	.2218	e	.7184	.2218
X62C	IA-PV1204C	RNA-5	15.539	.6105	e	15.539	.6105
X68A	E11-F043D	E11-17	off-scale	1.354	e	N/A	1.354
X68B	E11-F043B	E11-18	.0	.0	e	.0	.0
X68C	E11-F037D	E11-15	.0	.0	e	.0	.0
X68D	E11-F037B	E11-16	.6709	.6709	e	.6709	.6709

PENETRATION	ISOLATION VALVE	TEST	TEST LEAKAGE AS FOUND	TEST LEAKAGE AS LEFT	NOTES	PENETRATION LEAKAGE AS FOUND	PENETRATION LEAKAGE AS LEFT
X71	RNA-V103	RNA-2	.0	.0	e	.0	.0
X73A	CAC-PV1227A	CAC-11	.0929	.0929	d	.0	.0
	CAC-SV1259-4	CAC-33	.0	.0			
X73B	CAC-PV1227B	CAC-12	.2826	.2826	d	.0	.0
	CAC-SV1259-3	CAC-34	.0	.0			
X73C	CAC-PV1227C	CAC-13	2.012	.0	d	1.893	.0
	CAC-PV1260	CAC-15	5.583	.0			
X73E	CAC-PV1227E	CAC-14	off-scale	.0	d	.0	.0
	CAC-SV1259-2	CAC-35	.0	.0			
X76B	CAC-PV1225B	CAC-18	.0	.0	d,g	.0	.0
	CAC-PV3440	CAC-17	.0	.0			
	CAC-PV3441	CAC-27	.0	.0			
	CAC-PV3442	CAC-28	.0	.0			
X76C	CAC-PV1225C	CAC-37	2.25	.0	e	2.25	.0
X77B	RCC-PV1222B	RCC-2	1.349	1.349	e	1.349	1.349
X77C	RCC-PV1222C	(see RCC-2, X77B)			e	1.349	1.349
X78A	B32-V32	B32-4	.174	.174	d	.174	.0
	B32-V30	(see B32-1, X62A)					
X205	CAC-V47	CAC-1	.0	.0	h	N/A	.897
	CAC-V16, X20A	CAC-6	off-scale	.0			
	CAC-V17, X20B	CAC-7	50.1	.0			
	CAC-V5	(see CAC-3, X25)					
X206A-A	CAC-SV1218A	CAC-47*	.0	.0	e	.0	.0
X206A-C	CAC-PV1218C	CAC-40	.0	.0	e	.0	.0
X206A-D	E41-PV1218D	E41-7	10.886	.0	e	10.886	.0
X206B-B	CAC-PV1219B	CAC-38	.0	.0	e	.0	.0
X206B-C	CAC-PV1219C	CAC-42	.0	.0	e	.0	.0
X206B-D	E41-PV1219D	E41-8	.718	.718	e	.718	.718
X206C-C	CAC-PV1220C	CAC-39	.0	.0	e	.0	.0
X206C-D	E41-1220D	E41-9	10.886	.0	e	10.886	.0
X206D-C	CAC-PV1221C	CAC-41	.0	.0	e	.0	.0
X206D-D	E41-PV1221D	E41-10	.718	.718	e	.718	.718

* New Test Number

PENETRATION	ISOLATION VALVE	TEST	TEST LEAKAGE AS FOUND	TEST LEAKAGE AS LEFT	NOTES	PENETRATION LEAKAGE AS FOUND	PENETRATION LEAKAGE AS LEFT
X209B-A	CAC-SV1213A	CAC-46*	.0	.0	e	.0	.0
X209B-B	RXS-SV4188	RXS-3	.0	.0	d	.0	.0
X209B-B	RXS-SV4189	RXS-4	.0	.0			
X209B-D	RXS-SV4186	RXS-1	.0	.0	d	.0	.0
X209B-D	RXS-SV4187	RXS-2	.0	.0			
X210A	E11-F024A	E11-11	.0	.0	f	.1526	.1526
	E11-F025A	E11-13	.0	.0			
	E11-F007A	E11-24	.061	.061			
	E11-F011A	E11-2	.0916	.0916			
X210B	E11-F024B	E11-12	.0619	.0619	f	13.5779	5.5789
	E11-F025B	E11-14	.0	.0			
	E11-F007B	E11-25	.610	.610			
	E11-F011B	E11-3	3.644	3.644			
	E11-F029	E11-32	1.187	1.187			
	E41-F012	E41-2	.076	.076			
	E51-F019	E51-2	7.999	.0			
X211A	E11-F027A, F028A	(see E11-11, X210A)			a	.0	.0
X211B	E11-F027B, F028B	(see E11-12, X210B)			a	.0219	.0219
X212	E51-F040, F001	E51-5	off-scale	2.932	b	N/A	1.037
X214	E41-F021, F049	E41-5	.715	.715	f	2.143	2.143
	E11-F055A	E11-28	.714	.714			
	E11-F055B	E11-29	.714	.714			
	E11-V20	E11-30	.0	.0			
	E11-V21	E11-31	.0	.0			
	E11-103A	E11-26	.0	.0			
	E11-103B	E11-27	.0	.0			
X216	E51-F062, F066	E51-6	.0	.0	a	.0	.0
X218	E41-F079, F075	E41-6	.0	.0	a	.0	.0
X220	CAC-V7,V8,V22	CAC-4	off-scale	1.3703	c	N/A	.484
X221	E41-F002, F028	E51-4	.0	.0	a	.0	.0
X222	E41-F040, F022	E41-4	.0	.0	a	.0	.0

* New Test Number

PENETRATION	ISOLATION VALVE	TEST	TEST LEAKAGE AS FOUND	TEST LEAKAGE AS LEFT	NOTES	PENETRATION LEAKAGE AS FOUND	PENETRATION LEAKAGE AS LEFT
X223A	E21-F015A	E21-5	.943	.943	d	.943	.943
	E21-F031A	E21-7	.0	.0			
X223B	E21-F015B	E21-6	.0	.0	d	.0	.0
	E21-F031B	E21-8	off-scale	.726			
X224	E51-F031	E51-3	.0	.0	e	.0	.0
X225A	E11-F020A	E11-8	off-scale	12.784	e	N/A	12.784
X225B	E11-F020B	E11-9	9.485	9.485	e	9.485	9.485
X226	E41-F042	E41-3	31.625	4.206	e	31.625	4.206
X227A	E21-F001A	E21-1	off-scale	.062	e	N/A	.062
X227B	E21-F001B	E21-2	11.110	11.110	e	11.110	11.110
X231	TD V-22	TD-1	6.325	.0	d	.0	.0
	TD V-23	TD-2	.0	.0			
X224B	CAC-PV1231B	CAC-16	.0	.0	d	.0	.0
	CAC-SV1259-1	CAC-36	.0	.0			
X245E	CAC-PV1215E	CAC-24	7.85	.3874	d	.0	.0
	CAC-SV1263-1	CAC-31	.0	.0			

PENETRATION LEAKAGE NOTES

Definitions

L : valve leakage

L_F : valve leakage "as found"

L_L : valve leakage "as left"

L_O : valve leakage "outboard" valves

L_I : valve leakage "inboard" valves

X : penetration leakage

X_F : penetration leakage "as found"

X_L : penetration leakage "as left"

Notes

(a) Isolation valves tested together, no repairs

$$X = \frac{L}{2\ (2)^{1/2}}$$

(b) Isolation valves tested together, one repaired

$$X_F = \frac{L_F}{2\ (2)^{1/2}} \qquad L_F \leq 2L_L$$

$$X_F = \frac{1}{\left(\frac{1}{L_L^2} + \frac{1}{(L_F - L_L)^2}\right)^{1/2}} \qquad L_F \geq 2L_L$$

$$X_L = \frac{L_L}{2\ (2)^{1/2}}$$

(c) Isolation valves tested together, all repaired

$$X_F = \frac{L_F}{2\ (2)^{1/2}}$$

$$X_L = \frac{L_L}{2\ (2)^{1/2}}$$

(d) Two isolation valves tested separately

$$X = \frac{1}{\left(\frac{1}{L_1^2} + \frac{1}{L_2^2}\right)^{1/2}} \qquad L_1,\ L_2 \neq 0$$

$$X = \emptyset \qquad L_1 \text{ or } L_2 = 0$$

(e) Single isolation valve,

$$X = L$$

(f) Inboard/outboard isolation valves consist of more than one separate test

$$L_O = \Sigma L_{Oi}\ ;\quad L_I = \Sigma L_{Ii}$$

(g) Penetrations with two unique and separate leakage path

$$X = X_1 + X_2$$

(h) Penetration is divided into inboard and outboard leakages so that:

(1) $L_O + L_I = \Sigma L_i$

(2) $L_O = L_I$

(3) $$X = \frac{L}{2\ (2)^{1/2}}$$

APPENDIX A

1. 7/9/82 (0500) - 7/10/82 (2300) -- No Repairs*

   Containment Mass

2. 7/10/82 (2300) - 7/11/82 (2200) -- New Valve Lineup*

   Containment Mass

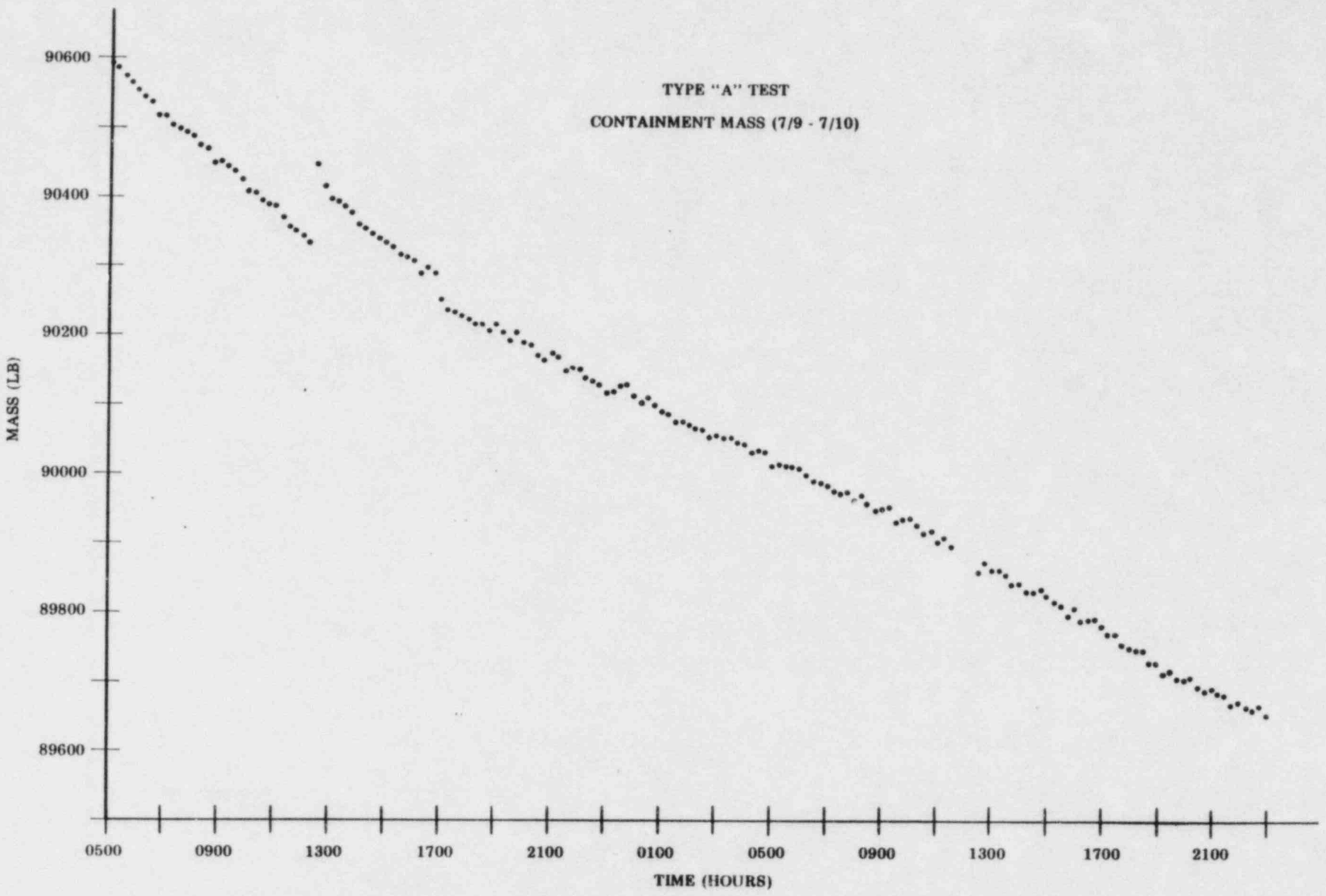
3. 7/12/82 (1830) - 7/13/82 (1900) -- 24-Hour Test*

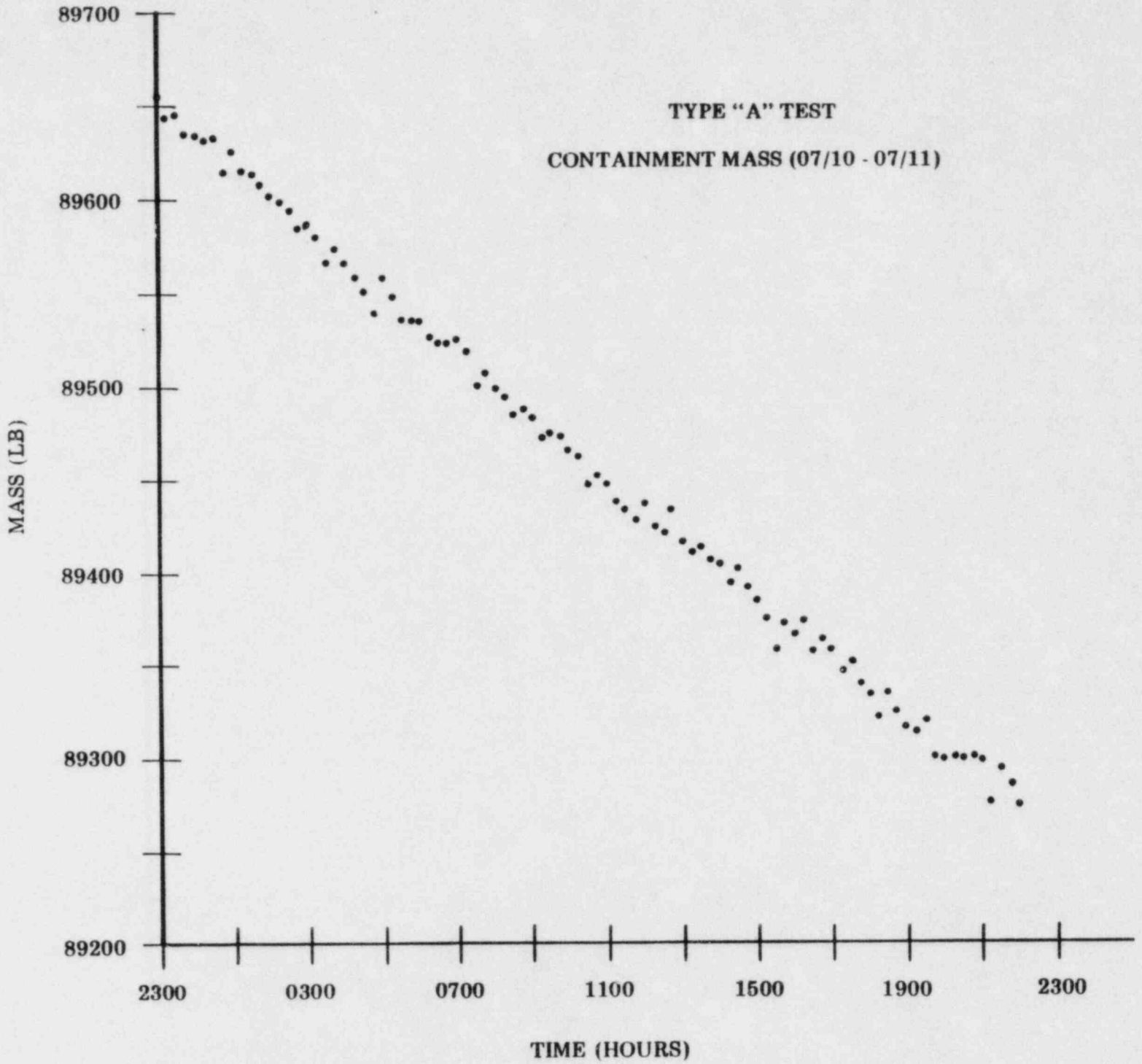
   a. Containment Mass
   b. Containment Temperature
   c. Containment Vapor Pressure
   d. Containment Absolute Pressure

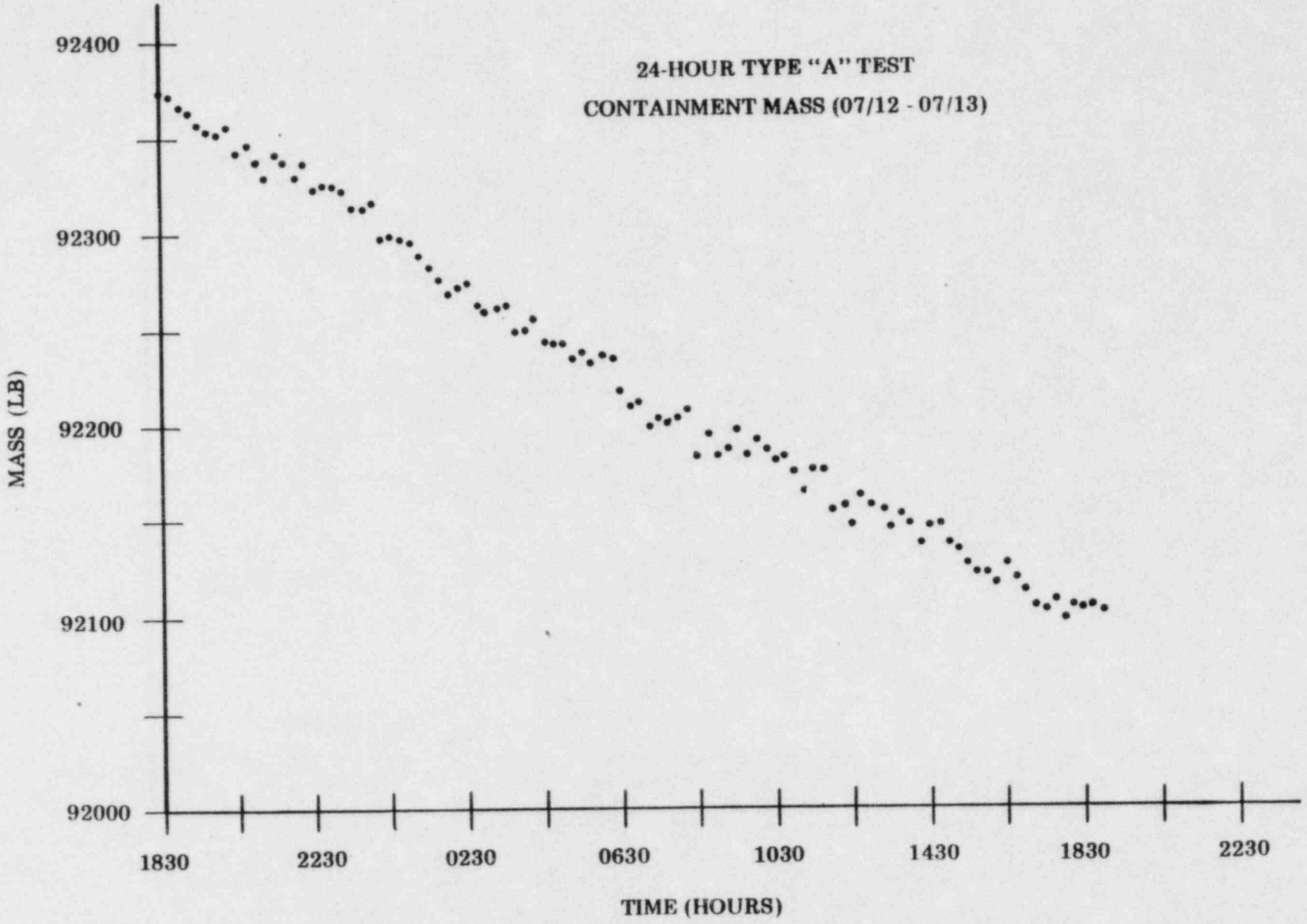
4. 7/13/82 (1915) - 7/14/82 (0230) -- Verification Test*

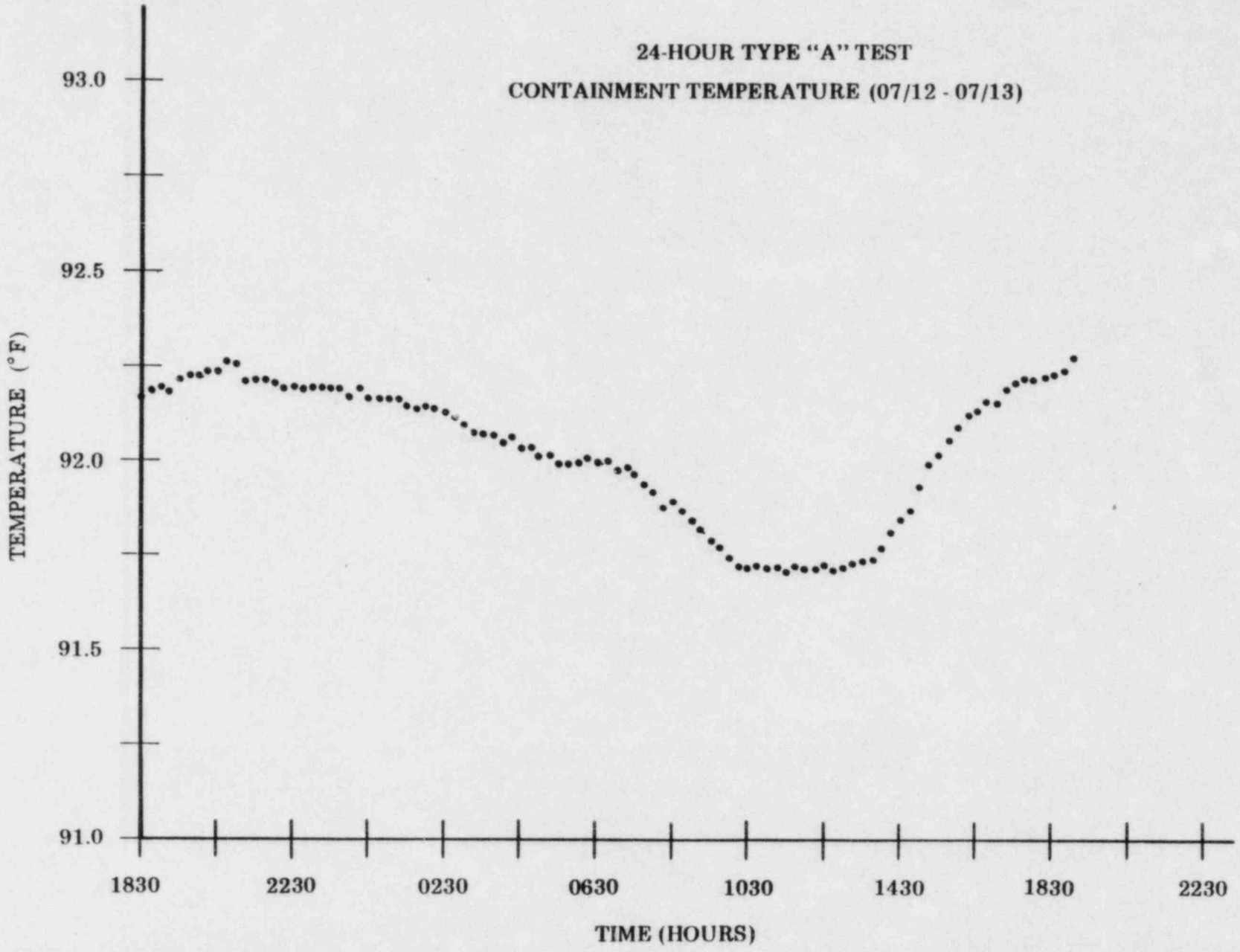
   Containment Mass

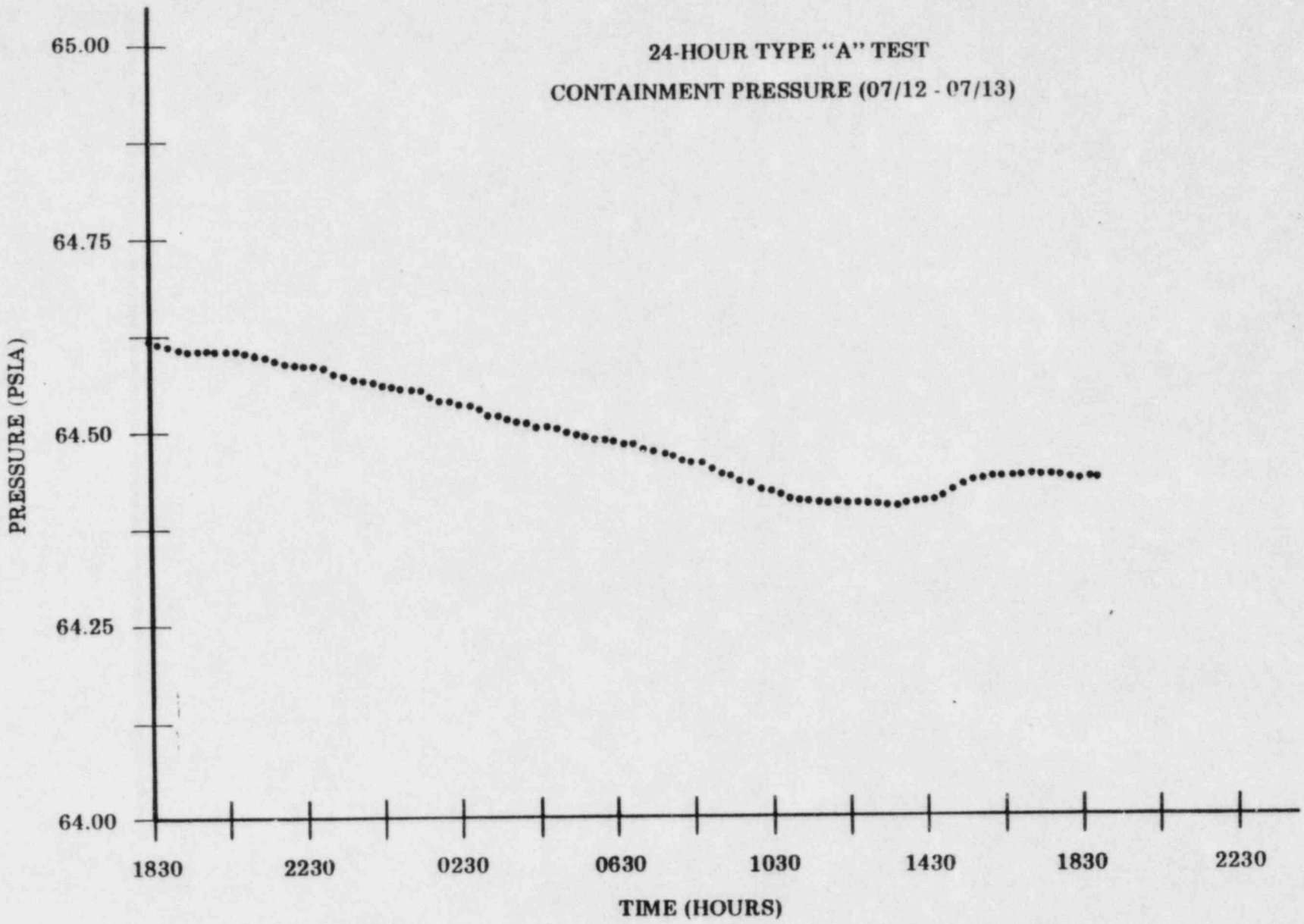
* Figure follows.

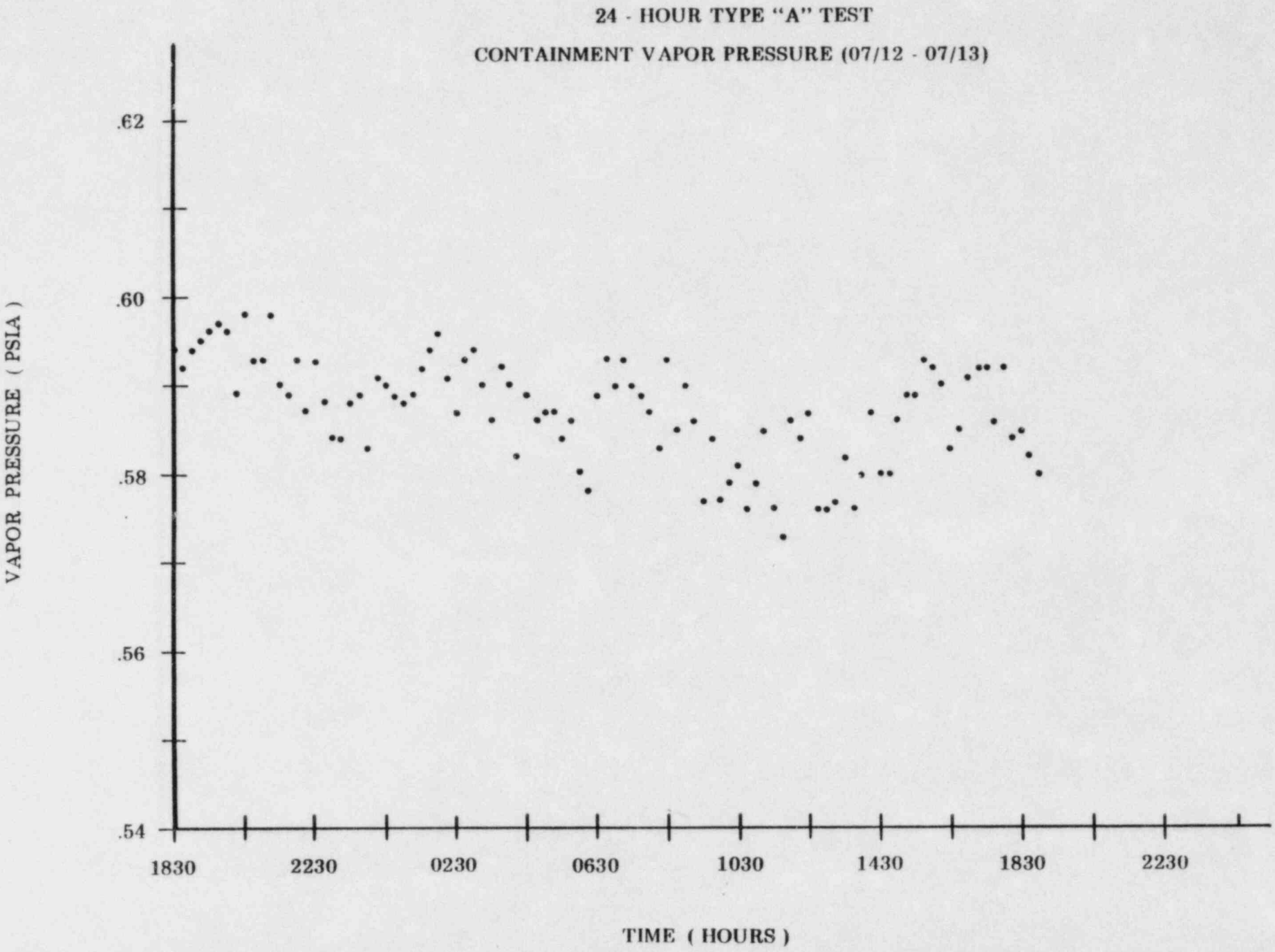

TYPE "A" TEST
CONTAINMENT MASS (7/9 - 7/10)
MASS (LB)
90600
90400
90200
90000
89800
89600
0500
0900
1300
1700
2100
0100
0500
0900
1300
1700
2100
TIME (HOURS)

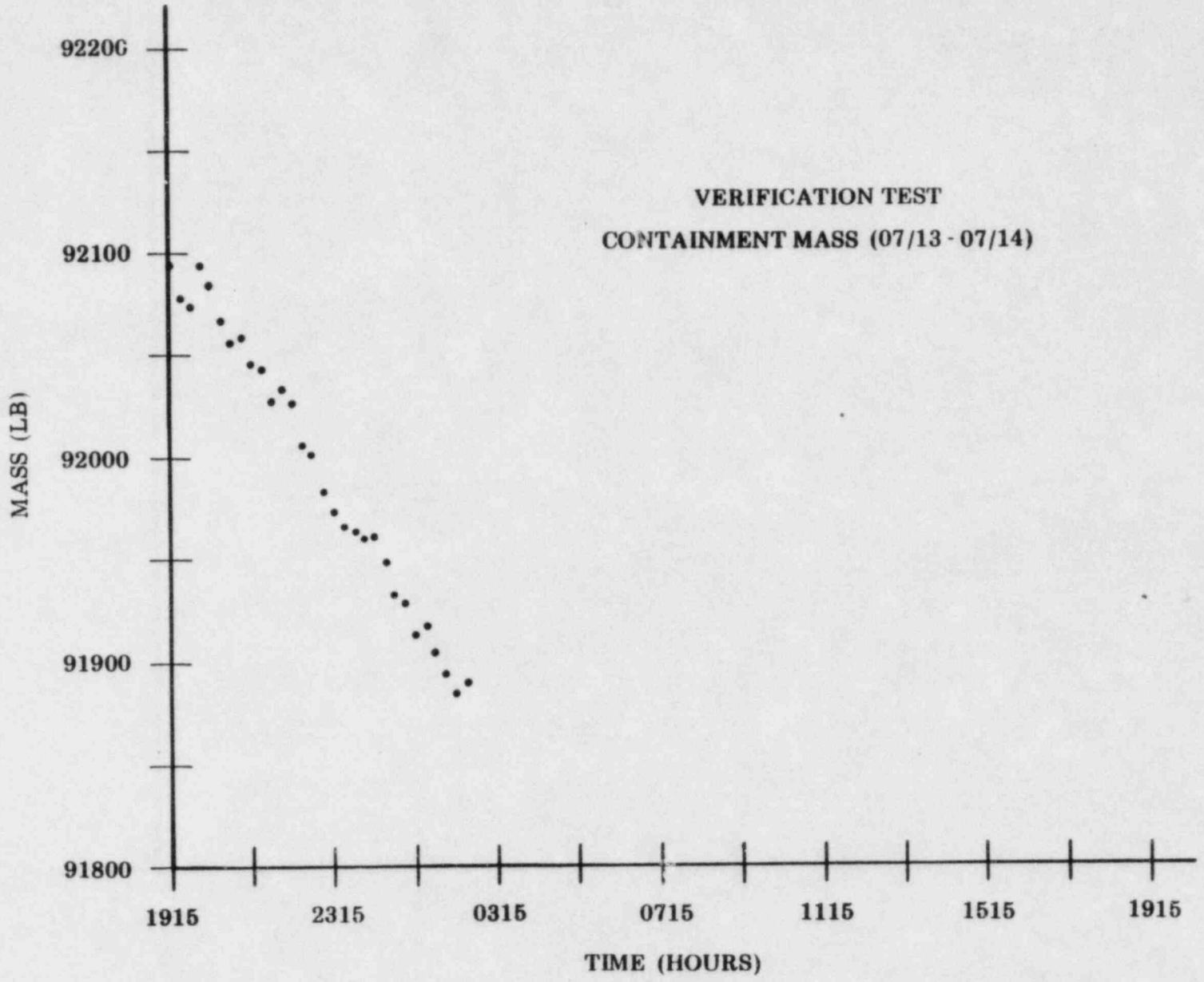

TYPE "A" TEST
CONTAINMENT MASS (07/10 - 07/11)
89700
89600
89500
89400
89300
89200
MASS (LB)
2300
0300
0700
1100
1500
1900
2300
TIME (HOURS)


24-HOUR TYPE "A" TEST
CONTAINMENT MASS (07/12 - 07/13)
MASS (LB)
92400
92300
92200
92100
92000
1830
2230
0230
0630
1030
1430
1830
2230
TIME (HOURS)


24-HOUR TYPE "A" TEST
CONTAINMENT TEMPERATURE (07/12 - 07/13)
93.0
92.5
92.0
91.5
91.0
TEMPERATURE (°F)
1830
2230
0230
0630
1030
1430
1830
2230
TIME (HOURS)


24-HOUR TYPE "A" TEST
CONTAINMENT PRESSURE (07/12 - 07/13)
65.00
64.75
64.50
64.25
64.00
PRESSURE (PSIA)
1830
2230
0230
0630
1030
1430
1830
2230
TIME (HOURS)


24 - HOUR TYPE "A" TEST
CONTAINMENT VAPOR PRESSURE (07/12 - 07/13)
VAPOR PRESSURE (PSIA)
.62
.60
.58
.56
.54
1830
2230
0230
0630
1030
1430
1830
2230
TIME (HOURS)


VERIFICATION TEST
CONTAINMENT MASS (07/13 - 07/14)
92200
92100
92000
91900
91800
MASS (LB)
1915
2315
0315
0715
1115
1515
1915
TIME (HOURS)

APPENDIX B

ILRT LEAK RATE CALCULATIONS

B.1 Post-Relief Valve Repair Leak Rate: 7/9/82 (0500) - 7/9/82 (2345)

Mass pt. leak rate: .653
Upper confidence limit: .674
Regression line:
Slope = -24.625
y-intercept = 90561.042

B.2 Pre-Revised Valve Lineup Leak Rate: 7/10/82 (0000) - 7/10/82 (2300)

Mass pt. leak rate: .539
Upper confidence limit .545
Regression line:
Slope = -20.246
y-intercept = 90120.641

B.3 Post-Revised Valve Lineup Leak Rate: 7/10/82 (2300) - 7/11/82 (2145)

Mass pt. leak rate: .439
Upper confidence limit: .443
Regression line:
Slope = -16.381
y-intercept = 89648.014

B.4 24-Hour Type "A" Test Leak Rate: 7/12/82 (1830) - 7/13/82 (1830)

Mass pt. leak rate: .298
Upper confidence limit: .304
Regression line:
Slope = -11.484
y-intercept = 92366.438

B.5 Verification Test Leak Rate: 7/13/82 (2200) - 7/14/82 (0200)

Mass pt. leak rate: .856
Upper confidence limit: .915
Regression line:
Slope = -32.812
y-intercept = 92026.076

APPENDIX C

RELIEF VALVE LEAKAGE CALCULATION

During the period immediately preceding and following the relief valve repair, the following leak rate calculations were performed.

Masspoint Calculation (0300 - 0500: 7/9/82) : 7.432 wt%/day

- Upper Confidence Limit: 7.848
- Regression Line
  - Slope: -281.814
  - y-intercept: 91006.461

Masspoint Calculation (0500 - 0630: 7/9/82) : 1.066 wt%/day

- Upper Confidence Limit: 1.185
- Regression Line
  - Slope: -40.229
  - y-intercept 90595.543

The difference between the masspoint caculations is the leakage attributable to the relief valve i.e.,

6.366 wt%/day

and, adding the confidence limits for both time spans shows that the relief valve leakage (L_{RV})

$$5.831 \leq L_{RV} \leq 6.901$$

APPENDIX D

SUPERIMPOSED LEAKAGE CALCULATIONS

225 Rdg = 4.339 SCFM (from calibration)

= 260.34 SCFH

= 6248.16 SCFD

$$\therefore \quad L_T = L_c\left(\frac{T_{cal}}{T_{act}} * \frac{P_{act}}{P_{cal}}\right)^{1/2}$$

$T_{cal} = 70^{\circ}F$ $P_{cal} = 14.7$ psia

$T_{act} = 87.5^{\circ}F$ $P_{act} = 14.7$ psia

$$\therefore \quad L_T = 6248.16 \quad (530/547.5)^{1/2}$$

$L_T = 6147.49$ SCFD

using density at $70^{\circ}F$ = .075 #/ft^3

$L_T = 461.06$ #

since initial mass = 92034 (at 2200, 7/13/82)

$$\therefore \quad L_T = .501 \text{ wt\%/day}$$

APPENDIX E

TEMPERATURE STABILIZATION

24-Hour Test Temperature Stabilization

'1' TIME*	'2' TEMP	'3' Ave ΔT over last 4 hours	'4' Ave ΔT over last hour	'5' |'4' - '3'|
1430	92.066			
1445	92.049			
1500	92.053			
1515	92.055			
1530	92.079		92.060	
1545	92.092		92.066	
1600	92.081		92.072	
1615	92.105		92.082	
1630	92.130		92.097	
1645	92.111		92.104	
1700	92.126		92.111	
1715	92.134		92.121	
1730	92.150		92.130	
1745	92.152		92.135	
1800	92.149		92.142	
1815	92.157		92.148	
1830	92.168	92.109	92.155	.046

Temperature stabilization is defined as: '5' $\leq$ .5

Clearly, .046 < .5 and temperature stability is met.

* (July 12, 1982)

VERIFICATION TEST TEMPERATURE STABILIZATION

'1' TIME*	'2' TEMP	'3' Ave ΔT over last 4 hours	'4' Ave ΔT over last hour	'5' |'4' - '3'|
1800	92.213			
1815	92.229			
1830	92.236			
1845	92.248			
1900	92.278		92.241	
1915	92.318		92.262	
1930	92.333		92.283	
1945	92.344		92.304	
2000	92.347		92.324	
2015	92.366		92.342	
2030	92.377		92.353	
2045	92.406		92.368	
2100	92.405		92.380	
2115	92.429		92.397	
2130	92.444		92.412	
2145	92.440		92.425	
2200	92.429	92.344	92.429	.085

Temperature stabilization is defined as: '5' $\leq$ .5

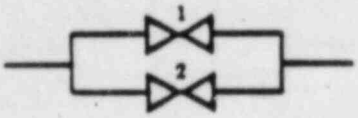
Clearly, .085 < .5 and temperature stability is met.

* (July 13, 1982)

APPENDIX F

PENETRATION LEAKAGE FORMULA DERIVATION

1. Valves In Parallel



$$L = L_1 + L_2$$

$$P = P_1 = P_2$$

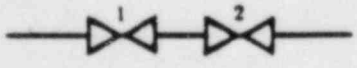
since $L = K (P)^{1/2}$

$$\therefore \quad K (P)^{1/2} = K_1 (P_1)^{1/2} + K_2 (P_2)^{1/2}$$

$$K (P)^{1/2} = K_1 (P)^{1/2} + K_2 (P)^{1/2}$$

$$K = K_1 + K_2 \qquad \text{Eqn 1}$$

2. Valves In Series



$$L = L_1 = L_2$$

$$P = P_1 + P_2$$

since $L = K (P)^{1/2}$

$$\therefore \frac{L}{K} = (P_1 + P_2)^{1/2} \qquad (K \neq 0)$$

$$\frac{L}{K} = \left(\frac{L_1^2}{K_1^2} + \frac{L_2^2}{K_2^2} \right)^{1/2} \qquad (K, K_1, K_2 \neq 0)$$

$$\therefore \frac{L}{K} = \left(\frac{L^2}{K_1^2} + \frac{L^2}{K_2^2} \right)^{1/2} \qquad (K, K_1, K_2 \neq 0)$$

$$\frac{1}{K} = \left(\frac{1}{K_1^2} + \frac{1}{K_2^2} \right)^{1/2} \qquad K, K_1, K_2, \neq 0 \qquad \text{Eqn 2}$$

a. Assume $K_1 \gg K_2$

$$\therefore \frac{1}{K} \sim \frac{1}{K_2}$$

as $K_2 \rightarrow \emptyset$, $K \rightarrow \emptyset$

since $L = K (P)^{1/2}$, as $K \rightarrow \emptyset$, $L \rightarrow \emptyset$

b. Assume $K_2 \gg K_1$

$$\therefore \frac{1}{K} \sim \frac{1}{K_1}$$

as $K_1 \rightarrow \emptyset$, $K \rightarrow \emptyset$

since $L = K (P)^{1/2}$, as $K \rightarrow \emptyset$, $L \rightarrow \emptyset$

c. Assume $K_1 = K_2$

$$\therefore \frac{1}{K} = \left(\frac{2}{K_2^2} \right)^{1/2}$$

$$\text{or } K = \frac{K_2}{(2)^{1/2}} \qquad \text{Eqn 3}$$

if K_1, K_2 were measured in parallel, the relationship between the parallel and series resistance can be determined.

i.e. $K_p = K_1 + K_2$

for maximum leakage $K_1 = K_2$ $\therefore K_p = 2K_2$

substituting into Eqn 3

$$K_S = \frac{K_p}{2 (2)^{1/2}} \qquad \text{Eqn 4}$$

Note: since "L" is minimum when K_2, and K_1 differ by maximum amounts, "L" is a maximum when $K_2 = K_1$.

APPENDIX G

ILRT DATA

JULY 8, 1982 (1615) - JULY 9, 1982 (2345)

APPENDIX G

ILRT DATA

JULY 8, 1982 (1615) - JULY 9, 1982 (2345)

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
1	1615	93.96	94.68	93.90	101.45	96.20	94.35
2	1630	94.20	94.96	93.90	101.65	96.28	94.59
3	1645	94.68	95.40	93.90	101.93	96.48	94.71
4	1700	95.40	96.16	93.90	102.13	96.72	95.10
5	1715	95.56	96.28	93.90	102.01	96.84	95.10
6	1730	95.72	96.48	93.90	102.49	97.08	95.22
7	1745	95.80	96.56	93.90	102.57	97.24	95.66
8	1800	96.60	97.28	93.90	103.08	98.04	97.18
9	1815	96.84	97.52	93.90	103.36	98.32	97.78
10	1830	96.96	97.64	93.90	103.28	98.56	97.94
11	1845	97.08	97.76	93.90	103.20	98.64	97.74
12	1900	97.20	97.88	93.90	103.44	98.76	97.86
13	1915	97.32	97.96	93.90	103.40	98.92	98.58
14	1930	97.40	98.04	93.90	103.04	98.96	98.70
15	1945	97.56	98.16	93.90	103.04	99.04	98.97
16	2000	97.64	98.24	93.90	103.04	99.20	99.01
17	2015	97.76	98.32	93.90	102.76	99.20	99.13
18	2030	97.80	98.40	93.90	102.92	99.28	99.17
19	2045	97.88	98.44	93.90	102.92	99.24	99.13
20	2100	97.96	98.52	93.90	102.60	99.24	99.21
21	2115	98.52	99.04	93.90	105.16	99.24	100.05
22	2130	98.28	98.88	93.90	103.80	99.44	99.61
23	2145	98.84	99.36	93.90	105.40	100.60	101.61
24	2200	100.28	100.48	93.90	106.96	101.60	103.44
25	2215	99.84	100.32	93.90	107.20	102.32	103.96
26	2230	100.40	100.72	93.90	107.56	102.32	104.36
27	2245	100.56	100.92	93.90	107.84	103.88	104.92
28	2300	99.80	100.32	93.90	107.40	102.60	104.44
29	0330	97.00	97.72	93.90	105.36	99.24	100.37
30	0345	97.04	97.72	93.90	105.36	99.12	100.41
31	0400	96.96	97.60	93.90	105.28	99.16	100.29
32	0415	96.96	97.60	93.90	105.28	99.12	100.33
33	0430	96.96	97.52	93.90	105.24	99.12	100.37
34	0445	96.92	97.56	93.90	105.20	99.12	100.33
35	0500	96.92	97.48	93.9	105.2	99.12	100.33
36	0515	96.84	97.48	93.9	105.2	99.16	100.29
37	0530	96.88	97.48	93.90	105.16	99.08	100.07
38	0545	96.80	97.44	93.90	105.08	99.04	100.25
39	0600	96.80	97.40	93.90	105.04	99.04	100.17
40	0615	96.76	97.36	93.90	105.08	99.08	100.17
41	0630	96.80	97.36	93.90	105.00	99.08	100.17
42	0645	96.76	97.36	93.9	104.96	98.96	100.21
43	0700	96.72	97.32	93.90	104.96	99.08	100.17
44	0715	96.68	97.32	93.90	104.96	99.04	100.21
45	0730	96.64	97.32	93.90	104.92	98.88	100.17
46	0745	96.64	97.28	93.90	104.88	98.92	100.92
47	0800	96.60	97.20	93.90	104.88	98.92	100.21
48	815	96.60	97.20	93.90	104.88	98.92	100.17
49	0830	96.60	97.16	93.90	104.84	98.62	100.17
50	0845	96.60	97.20	93.90	104.80	98.96	100.09

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
51	0900	96.64	97.20	93.90	104.84	98.84	100.09
52	915	96.60	97.20	93.90	104.80	99.00	100.05
53	0930	96.56	97.16	93.90	104.76	98.88	100.09
54	0945	96.56	97.24	93.90	104.76	98.88	100.13
55	1000	96.56	97.20	93.90	104.72	98.84	100.05
56	1015	96.60	97.20	93.90	104.68	98.84	100.05
57	1030	96.52	97.16	93.90	104.68	98.76	99.97
58	1045	96.60	97.12	93.90	104.68	98.68	100.05
59	1100	96.64	97.16	93.90	104.64	98.84	100.01
60	1115	96.52	97.16	93.90	104.64	98.80	99.97
61	1130	96.56	97.16	93.90	104.64	98.88	99.97
62	1145	96.60	97.16	93.90	104.64	98.68	99.97
63	1200	96.64	97.20	93.90	104.64	98.72	99.93
64	1215	96.60	97.28	93.90	104.64	98.76	100.01
65	1230	96.72	97.28	93.90	104.60	98.92	100.01
66	1245	96.64	97.28	93.90	104.64	98.76	100.01
67	1300	96.68	97.28	93.90	104.56	98.88	100.01
68	1315	96.76	97.32	93.90	104.68	98.88	100.09
69	1330	96.80	97.40	93.90	104.64	99.12	100.13
70	1345	96.80	97.44	93.90	104.68	99.04	100.21
71	1400	96.92	97.52	93.90	104.72	99.08	100.33
72	1415	96.96	97.56	93.90	104.68	99.12	100.29
73	1430	96.92	97.60	93.90	104.76	99.08	100.37
74	1445	97.00	97.64	93.90	104.68	99.20	100.33
75	1500	97.08	97.64	93.90	104.76	99.20	100.37
76	1515	97.12	97.76	93.90	104.76	99.20	100.45
77	1530	97.16	97.76	93.90	104.72	99.32	100.41
78	1545	97.24	97.80	93.90	104.84	99.36	100.49
79	1600	97.28	97.92	93.90	104.84	99.36	100.57
80	1615	97.36	97.96	93.90	104.84	99.44	100.57
81	1630	97.40	98.04	93.90	104.92	99.52	100.69
82	1645	97.44	98.04	93.90	104.96	99.72	100.81
83	1700	97.44	98.12	105.36	104.96	99.72	100.81
84	1715	97.52	98.20	105.36	104.96	99.72	100.85
85	1730	97.56	98.20	105.36	105.04	99.80	100.97
86	1745	97.60	98.24	105.53	105.12	99.72	100.97
87	1800	97.68	98.28	105.53	104.96	99.92	101.01
88	1815	97.96	98.32	105.53	105.12	99.84	101.01
89	1830	97.68	98.36	105.53	105.12	99.72	101.01
90	1845	97.68	98.32	105.53	105.24	99.76	101.05
91	1900	97.72	98.36	105.53	105.24	99.76	101.01
92	1915	97.76	98.36	105.53	105.20	99.92	101.13
93	1930	97.76	98.40	105.53	105.28	99.92	101.13
94	1945	97.80	98.40	105.53	105.28	100.00	101.13
95	2000	97.80	98.40	105.53	105.32	99.92	101.13
96	2015	97.80	98.44	105.53	105.36	99.92	101.17
97	2030	97.80	98.44	105.53	105.36	100.16	101.25
98	2045	97.80	98.48	105.53	105.44	99.96	101.21
99	2100	97.84	98.48	105.53	105.48	100.00	101.25
100	2115	97.80	98.44	105.53	105.56	100.08	101.37

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
101	2130	97.84	98.52	105.53	105.56	100.00	101.21
102	2145	97.88	98.52	105.53	105.60	100.00	101.29
103	2200	97.88	98.52	105.53	105.64	100.04	101.33
104	2215	97.88	98.52	105.53	105.68	100.16	101.41
105	2230	97.84	98.48	105.53	105.68	100.24	101.41
106	2245	97.84	98.48	105.53	105.76	100.16	101.41
107	2300	97.84	98.52	105.53	105.80	100.12	101.33
108	2315	97.80	98.48	105.53	105.80	100.04	101.37
109	2330	97.80	98.48	105.53	105.80	100.04	101.33
110	2345	97.84	98.48	105.53	105.84	100.16	101.33

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
1	1615	94.07	95.38	94.71	94.5	96.26	95.24
2	1630	94.15	95.66	94.75	94.82	96.34	95.52
3	1645	94.27	96.06	94.95	95.06	96.78	95.92
4	1700	94.51	96.46	95.22	95.34	97.42	96.08
5	1715	94.47	96.90	95.30	95.54	97.70	96.60
6	1730	94.75	97.26	95.54	95.74	98.06	96.88
7	1745	94.87	97.46	95.54	96.02	98.34	97.04
8	1800	94.59	98.22	96.66	98.43	98.54	96.72
9	1815	95.07	98.50	97.70	98.99	98.78	96.88
10	1830	95.46	98.74	98.06	99.19	98.97	97.04
11	1845	95.70	99.05	98.54	99.19	98.82	97.16
12	1900	95.66	99.21	98.89	99.39	98.85	97.20
13	1915	96.02	99.41	99.09	99.51	98.97	97.24
14	1930	96.42	99.45	99.21	99.39	98.89	97.28
15	1945	96.54	99.49	99.41	99.47	99.01	97.36
16	2000	96.86	99.53	99.53	99.59	98.97	97.36
17	2015	96.62	99.57	99.61	99.63	98.93	97.40
18	2030	97.30	99.57	99.53	99.55	98.89	97.40
19	2045	97.18	99.57	99.49	99.51	98.89	97.44
20	2100	96.98	99.57	99.65	99.51	98.89	97.48
21	2115	98.38	100.01	100.01	100.31	99.21	97.84
22	2130	97.82	99.77	99.81	99.59	99.25	97.56
23	2145	99.25	100.25	100.33	100.43	99.17	97.92
24	2200	100.33	101.25	101.13	101.39	99.77	98.24
25	2215	100.33	100.85	101.01	101.11	99.61	97.88
26	2230	100.65	101.25	101.25	101.39	99.89	98.04
27	2245	100.73	101.41	101.41	101.31	100.05	98.04
28	2300	100.01	100.69	100.85	100.35	99.37	97.40
29	0330	96.88	98.22	97.82	98.07	97.46	96.04
30	0345	96.94	98.22	97.78	98.07	97.42	96.00
31	0400	96.66	98.18	97.78	97.95	97.30	95.96
32	0415	96.86	98.14	97.74	98.03	97.46	95.96
33	0430	96.66	98.10	97.70	97.90	97.30	95.92
34	0445	97.06	98.10	97.66	97.95	97.26	95.88
35	0500	96.82	98.1	97.7	97.99	97.30	95.84
36	0515	96.7	98.1	97.7	97.95	97.22	95.842
37	0530	96.74	98.06	97.62	97.90	97.18	95.8
38	0545	96.50	98.02	97.58	97.82	97.14	95.76
39	0600	96.66	97.98	97.58	97.86	97.06	95.72
40	0615	96.50	97.98	97.54	97.90	97.02	95.72
41	0630	96.78	97.98	97.54	97.82	97.06	95.68
42	0645	96.54	97.94	97.54	97.82	97.22	95.68
43	0700	96.66	97.94	97.54	97.82	97.06	95.64
44	0715	96.26	97.94	97.54	97.82	97.10	95.64
45	0730	96.50	97.94	97.46	97.78	97.02	95.60
46	0745	96.38	97.94	97.46	97.82	97.06	95.56
47	0800	96.54	97.90	97.46	97.74	97.01	95.60
48	815	96.50	97.90	97.42	97.82	96.94	95.56
49	0830	96.42	97.90	97.50	97.78	96.98	95.52
50	0845	96.46	97.90	97.46	97.74	96.98	95.52

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
51	0900	96.22	97.90	97.42	97.78	96.86	95.52
52	915	96.70	97.90	97.38	97.78	96.94	95.52
53	0930	96.50	97.90	97.38	97.78	96.94	95.48
54	0945	96.46	97.86	97.42	97.74	96.94	95.48
55	1000	96.50	97.86	97.42	97.74	96.90	95.48
56	1015	96.46	97.86	97.34	97.74	96.86	95.44
57	1030	96.46	97.86	97.26	97.74	96.82	95.44
58	1045	96.50	97.82	97.30	97.70	96.86	95.44
59	1100	96.42	97.82	97.30	97.66	96.90	95.44
60	1115	96.50	97.82	97.26	97.62	96.82	95.44
61	1130	96.50	97.82	97.26	97.70	96.74	95.40
62	1145	96.46	97.78	97.26	97.66	96.74	95.44
63	1200	96.34	97.82	97.26	97.66	96.74	95.40
64	1215	96.66	97.82	97.22	97.66	96.82	95.40
65	1230	96.46	97.86	97.18	97.66	96.66	95.40
66	1245	96.34	97.82	97.18	97.62	96.82	95.36
67	1300	96.14	97.82	97.26	97.54	96.74	95.40
68	1315	96.42	97.86	97.26	97.66	96.70	95.44
69	1330	96.62	97.86	97.30	97.74	96.86	95.44
70	1345	96.50	97.90	97.42	97.74	96.86	95.52
71	1400	96.70	97.94	97.58	97.78	96.86	95.56
72	1415	96.50	97.94	97.54	97.74	96.94	95.60
73	1430	96.50	98.02	97.62	97.82	96.98	95.60
74	1445	96.66	98.02	97.62	97.82	97.06	95.64
75	1500	96.82	98.06	97.62	97.82	97.10	95.68
76	1515	96.66	98.06	97.74	97.86	97.10	95.72
77	1530	96.74	98.10	97.66	97.86	97.14	95.76
78	1545	96.78	98.14	97.78	97.86	97.14	95.80
79	1600	96.78	98.14	97.82	97.95	97.14	95.84
80	1615	96.78	98.22	97.90	97.95	97.34	95.88
81	1630	96.62	98.26	97.86	97.95	97.38	95.922
82	1645	96.98	98.30	98.02	97.99	97.42	96.002
83	1700	96.82	98.38	97.94	98.07	97.50	96.082
84	1715	96.86	98.38	98.02	98.11	97.54	96.122
85	1730	96.90	98.42	98.10	98.15	97.62	96.162
86	1745	96.78	98.42	98.14	98.15	97.74	96.20
87	1800	96.94	98.42	98.18	98.15	97.70	96.20
88	1815	96.82	98.46	98.18	98.19	97.74	96.242
89	1830	96.78	98.46	98.18	98.23	97.78	96.242
90	1845	96.94	98.46	98.22	98.23	97.66	96.282
91	1900	96.94	98.50	98.22	98.27	97.78	96.282
92	1915	96.94	98.50	98.22	98.27	97.78	96.282
93	1930	97.10	98.54	98.26	98.27	97.78	96.322
94	1945	96.90	98.54	98.30	98.31	97.78	96.363
95	2000	97.02	98.58	98.34	98.31	97.86	96.362
96	2015	96.94	98.62	98.30	98.27	97.86	96.402
97	2030	97.10	98.62	98.38	98.35	97.78	96.402
98	2045	97.02	98.66	98.42	98.35	98.86	96.402
99	2100	97.02	98.66	98.34	98.39	97.78	96.402
100	2115	97.06	98.70	98.42	98.39	97.98	96.441

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
101	2130	97.14	98.74	98.42	98.43	97.90	96.441
102	2145	97.26	98.74	98.42	98.47	97.90	96.441
103	2200	97.26	98.74	98.46	98.51	98.02	96.481
104	2215	97.26	98.78	98.50	98.55	98.06	96.52
105	2230	97.30	98.82	98.54	98.51	97.98	96.48
106	2245	97.42	98.82	98.54	98.55	97.98	96.52
107	2300	97.42	98.85	98.54	98.55	97.90	96.52
108	2315	97.46	98.82	98.54	98.59	97.98	96.52
109	2330	97.46	98.85	98.46	98.59	97.94	96.48
110	2345	97.26	98.85	98.50	98.55	97.94	96.521

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
1	1615	93.90	94.36	95.82	94.03	95.38	94.01
2	1630	94.09	94.64	95.98	94.39	95.62	94.25
3	1645	94.49	94.95	96.30	94.71	96.02	94.57
4	1700	94.81	95.15	96.70	95.22	96.46	94.89
5	1715	95.77	95.23	97.30	95.50	96.62	95.21
6	1730	96.72	95.31	97.90	95.74	96.78	95.65
7	1745	97.28	95.39	98.34	95.90	96.94	95.80
8	1800	97.52	96.42	99.13	96.02	97.25	96.16
9	1815	98.67	96.94	99.57	96.18	97.33	96.28
10	1830	99.03	97.41	99.97	96.22	97.37	96.40
11	1845	99.23	97.61	100.13	96.30	97.45	96.44
12	1900	99.19	97.77	100.33	96.34	97.49	96.56
13	1915	99.27	97.93	100.41	96.50	97.57	96.60
14	1930	99.19	97.93	100.45	96.54	97.57	96.60
15	1945	99.27	98.01	100.53	96.58	97.61	96.68
16	2000	99.23	98.17	100.61	96.62	97.69	96.72
17	2015	99.27	98.13	100.53	96.70	97.69	96.80
18	2030	99.35	98.17	100.41	96.74	97.73	96.88
19	2045	99.31	98.05	100.45	96.74	97.77	96.88
20	2100	99.11	98.01	100.49	96.78	97.77	96.92
21	2115	98.99	98.25	100.77	96.98	97.97	97.04
22	2130	99.19	98.09	100.57	96.94	97.89	97.00
23	2145	99.35	98.80	101.13	97.18	98.13	97.36
24	2200	100.62	100.03	101.89	97.26	98.29	97.67
25	2215	100.34	99.79	101.53	96.90	97.97	97.48
26	2230	100.74	99.95	101.85	97.02	98.09	97.52
27	2243	100.90	100.27	101.93	96.98	98.13	97.60
28	2300	99.70	99.44	101.13	96.42	97.45	97.08
29	0330	96.24	95.51	98.97	95.18	96.38	95.69
30	0345	96.16	95.51	98.89	95.14	96.34	95.65
31	0400	96.16	95.31	98.85	95.10	96.34	95.57
32	0415	96.24	95.43	98.82	95.07	96.30	95.61
33	0430	96.04	95.23	98.78	95.03	96.26	95.57
34	0445	96.12	95.39	98.74	95.03	96.26	95.53
35	0500	96.08	95.19	98.78	94.99	96.22	95.53
36	0515	96.00	95.23	98.74	94.95	96.18	95.49
37	0530	96.0	95.15	98.74	94.95	96.18	95.45
38	0545	95.96	94.95	98.70	94.91	96.14	95.41
39	0600	95.92	95.11	98.70	94.87	96.10	95.37
40	0615	95.92	95.11	98.70	94.83	96.06	95.37
41	0630	95.84	95.31	98.70	94.83	96.06	95.33
42	0645	95.88	95.15	98.58	94.83	96.06	95.33
43	0700	95.84	95.23	98.58	94.83	96.02	95.33
44	0715	95.84	94.95	98.62	94.83	96.02	95.33
45	0730	95.80	95.07	98.58	94.79	95.98	95.25
46	0745	95.80	94.99	98.58	94.75	95.98	95.25
47	0800	95.80	95.11	98.54	94.79	95.98	95.29
48	815	95.80	95.23	98.50	94.75	95.94	95.25
49	0830	95.77	95.23	98.42	94.75	95.94	95.25
50	0845	95.80	94.95	98.42	94.75	95.94	95.56

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
51	0900	95.80	95.15	98.38	94.75	95.94	95.25
52	915	95.73	95.27	98.38	94.75	95.94	95.25
53	0930	95.73	95.15	98.38	94.71	95.90	95.17
54	0945	95.73	95.03	98.34	94.71	95.90	95.21
55	1000	95.73	95.11	98.34	94.71	95.90	95.21
56	1015	95.69	94.99	98.30	94.67	95.90	95.21
57	1030	95.69	95.23	98.26	94.67	95.86	95.21
58	1045	95.65	95.11	98.22	94.67	95.86	95.17
59	1100	95.65	94.95	98.22	94.63	95.86	95.13
60	1115	96.65	95.11	98.22	94.63	95.82	95.13
61	1130	95.61	95.27	98.18	94.63	95.78	95.09
62	1145	95.57	94.83	98.14	94.59	95.78	95.09
63	1200	95.61	95.03	98.18	94.63	95.78	95.09
64	1215	95.61	95.23	98.18	94.63	95.78	95.09
65	1230	95.65	95.15	98.22	94.67	95.82	95.13
66	1245	95.57	95.11	98.18	94.63	95.78	95.09
67	1300	95.61	94.91	98.14	94.63	95.82	95.09
68	1315	95.61	95.31	98.22	94.71	95.86	95.13
69	1330	95.65	95.35	98.26	94.75	95.86	95.21
70	1345	95.84	95.43	98.34	94.79	95.94	95.29
71	1400	95.84	95.43	98.38	94.87	95.98	95.33
72	1415	95.80	95.43	98.42	94.91	96.02	95.41
73	1430	95.88	95.51	98.46	94.95	96.06	95.41
74	1445	95.88	95.59	98.42	94.99	96.06	95.41
75	1500	95.84	95.79	98.46	95.03	96.10	95.45
76	1515	95.92	95.63	98.54	95.03	96.14	95.53
77	1530	95.96	95.99	98.50	95.07	96.18	95.53
78	1545	96.04	95.83	98.58	95.14	96.22	95.65
79	1600	96.08	96.06	98.62	95.22	96.30	95.65
80	1615	96.08	95.99	98.70	95.22	96.34	95.73
81	1630	96.16	96.34	98.70	95.30	96.42	95.77
82	1645	96.24	96.30	98.78	95.38	96.50	95.88
83	1700	96.32	96.46	98.85	95.46	96.54	95.88
84	1715	96.28	96.46	98.85	95.50	96.54	95.92
85	1730	96.32	96.42	98.89	95.54	96.58	96.00
86	1745	96.36	96.46	98.89	95.58	96.62	95.96
87	1800	96.40	96.34	98.93	95.62	96.66	96.00
88	1815	96.36	96.26	99.01	95.62	96.66	96.00
89	1830	96.40	96.26	98.97	95.62	96.66	96.00
90	1845	96.44	96.38	99.01	95.66	96.70	96.04
91	1900	96.44	96.34	99.01	95.66	96.74	96.04
92	1915	96.44	96.46	99.01	95.66	96.74	96.08
93	1930	96.48	96.46	99.05	95.70	96.78	96.04
94	1945	96.48	96.34	99.05	95.70	96.78	96.12
95	2000	96.52	96.46	99.05	95.70	96.82	96.12
96	2015	96.48	96.42	99.13	95.74	96.82	96.16
97	2030	96.60	96.50	99.13	95.78	96.86	96.16
98	2045	96.60	96.50	99.13	95.78	96.86	96.16
99	2100	96.60	96.46	99.21	95.82	96.90	96.20
100	2115	96.60	96.50	99.17	95.82	96.90	96.16

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
101	2130	96.60	96.62	99.17	95.82	96.90	96.16
102	2145	96.64	96.58	99.25	95.86	96.94	96.24
103	2200	96.64	96.58	99.29	95.86	96.94	96.28
104	2215	96.68	96.62	99.29	95.86	96.94	96.24
105	2230	96.64	96.66	99.29	95.86	96.94	96.24
106	2245	96.72	96.62	99.37	95.86	96.98	96.28
107	2300	96.72	96.58	99.33	95.86	96.94	96.28
108	2315	96.68	96.58	99.33	95.82	96.94	96.24
109	2330	96.72	96.58	99.33	95.82	96.94	96.24
110	2345	96.72	96.58	99.33	95.82	96.94	96.24

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
1	1615	86.24	86.92	86.68	86.60	86.72	86.40
2	1630	87.04	87.56	87.40	87.28	87.52	87.16
3	1645	87.96	88.56	88.16	88.16	88.40	87.92
4	1700	89.48	90.31	89.88	89.68	90.24	89.36
5	1715	89.96	90.63	90.19	90.04	90.56	89.76
6	1730	90.28	90.95	90.47	90.28	90.80	90.04
7	1745	90.48	91.03	90.63	90.44	90.96	90.28
8	1800	90.56	91.11	90.71	90.56	91.00	90.40
9	1815	90.64	91.11	90.71	90.60	91.00	90.48
10	1830	90.68	91.15	90.71	90.64	91.00	90.59
11	1845	90.68	91.19	90.71	90.60	91.00	90.59
12	1900	90.68	91.11	90.71	90.64	90.96	90.59
13	1915	90.76	91.07	90.71	90.64	91.00	90.71
14	1930	90.72	91.03	90.67	90.64	90.92	90.71
15	1945	90.72	91.07	90.67	90.64	90.88	90.71
16	2000	90.72	90.99	90.67	90.64	90.88	90.71
17	2015	90.72	90.99	90.71	90.68	90.88	90.71
18	2030	90.68	91.03	90.67	90.64	90.84	90.71
19	2045	90.68	90.99	90.67	90.64	90.84	90.75
20	2100	90.68	90.95	90.63	90.60	90.84	90.75
21	2115	90.72	90.95	90.67	90.64	90.84	90.75
22	2130	90.68	90.91	90.63	90.64	90.80	90.75
23	2145	90.72	90.95	90.67	90.68	90.84	90.79
24	2200	90.64	90.83	90.63	90.64	90.80	90.71
25	2215	89.76	89.88	89.76	89.76	89.84	89.92
26	2230	89.76	90.00	89.80	89.80	89.88	89.96
27	2245	89.60	89.76	89.64	89.60	89.68	89.76
28	2300	88.28	88.32	88.40	88.36	88.40	88.52
29	0330	85.76	85.93	85.96	85.90	85.97	86.08
30	0345	85.68	85.85	85.92	85.85	85.89	86.04
31	0400	85.64	85.81	85.88	85.85	85.89	86.00
32	0415	85.64	85.81	85.84	85.81	85.85	85.96
33	0430	85.60	85.77	85.80	85.77	85.81	85.92
34	0445	85.56	85.73	85.76	85.77	85.77	85.88
35	0500	85.52	85.69	85.76	85.73	85.73	85.88
36	0515	85.56	85.73	85.76	85.73	85.77	85.88
37	0530	85.56	85.73	85.76	85.73	85.73	85.88
38	0545	85.52	85.69	85.76	85.69	85.73	85.84
39	0600	85.52	85.69	85.72	85.69	85.69	85.84
40	0615	85.48	85.65	85.72	85.65	85.69	85.80
41	0630	85.48	85.69	85.72	85.65	85.69	85.80
42	0645	85.48	85.65	85.72	85.65	85.69	85.8
43	0700	85.44	85.65	85.68	85.65	85.65	85.76
44	0715	85.44	85.61	85.68	85.61	85.65	85.76
45	0730	85.44	85.61	85.64	85.61	85.61	85.76
46	0745	85.40	85.57	85.60	85.57	85.61	85.72
47	0800	85.40	85.57	85.60	85.53	85.61	85.72
48	815	85.36	85.53	85.60	85.53	85.57	85.72
49	0830	85.36	85.53	85.60	85.53	85.57	85.68
50	0845	85.32	85.49	85.56	85.53	85.57	85.68

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
51	0900	85.32	85.49	85.56	85.49	85.57	85.64
52	915	85.32	85.49	85.56	85.49	85.53	85.64
53	0930	85.32	85.49	85.56	85.49	85.53	85.64
54	0945	85.32	85.49	85.52	85.49	85.53	85.64
55	1000	85.28	85.49	85.52	85.49	85.53	85.60
56	1015	85.28	85.45	85.52	85.45	85.49	85.60
57	1030	85.28	85.45	85.52	85.45	85.49	85.60
58	1045	85.28	85.45	85.48	85.45	85.45	85.60
59	1100	85.24	85.45	85.48	85.45	85.45	85.60
60	1115	85.24	85.45	85.44	85.41	85.45	85.56
61	1130	85.24	85.41	85.44	85.41	85.45	85.56
62	1145	85.20	85.41	85.44	85.41	85.41	85.56
63	1200	85.20	85.41	85.44	85.41	85.41	85.41
64	1215	85.20	85.37	85.44	85.41	85.41	85.56
65	1230	85.28	85.49	85.48	85.45	85.45	85.60
66	1245	85.24	85.41	85.44	85.41	85.45	85.56
67	1300	85.20	85.37	85.40	85.37	85.41	85.52
68	1315	85.20	85.37	85.40	85.37	85.37	85.41
69	1330	85.16	85.37	85.40	85.37	85.37	85.52
70	1345	85.16	85.37	85.40	85.37	85.37	85.48
71	1400	85.16	85.37	85.40	85.33	85.37	85.48
72	1415	85.16	85.33	85.40	85.33	85.37	85.48
73	1430	85.16	85.37	85.40	85.33	85.37	85.48
74	1445	85.16	85.37	85.40	85.33	85.37	85.48
75	1500	85.12	85.33	85.40	85.33	85.37	85.48
76	1515	85.12	85.33	85.40	85.33	85.37	85.48
77	1530	85.12	85.33	85.40	85.33	85.37	85.44
78	1545	85.12	85.33	85.36	85.33	85.37	85.42
79	1600	85.12	85.33	85.36	85.33	85.33	85.44
80	1615	85.12	85.33	85.36	85.33	85.37	85.48
81	1630	85.12	85.33	85.36	85.33	85.33	85.44
82	1645	85.12	85.33	85.36	85.33	85.37	85.48
83	1700	85.12	85.29	85.36	85.29	85.33	85.44
84	1715	85.12	85.29	85.36	85.29	85.33	85.44
85	1730	85.12	85.29	85.36	85.29	85.33	85.44
86	1745	85.12	85.29	85.36	85.29	85.33	85.44
87	1800	85.12	85.29	85.36	85.29	85.33	85.44
88	1815	85.12	85.29	85.36	85.29	85.33	85.44
89	1830	85.08	85.29	85.32	85.29	85.33	85.44
90	1845	85.08	85.25	85.32	85.25	85.29	85.40
91	1900	85.08	85.25	85.32	85.25	85.29	84.40
92	1915	85.05	85.25	85.32	85.25	85.33	85.40
93	1930	85.08	85.29	85.32	85.29	85.29	85.40
94	1945	85.08	85.25	85.32	85.25	85.29	84.40
95	2000	85.08	85.25	85.28	85.25	85.29	85.40
96	2015	85.08	85.25	85.32	85.25	85.29	85.40
97	2030	85.08	85.25	85.32	85.25	85.29	85.40
98	2045	85.08	85.28	85.32	85.25	85.29	85.40
99	2100	85.04	85.25	85.28	85.21	85.25	85.40
100	2115	85.08	85.25	85.28	85.25	85.29	85.40

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
101	2130	85.08	85.25	85.28	85.21	85.29	85.40
102	2145	85.04	85.25	85.28	85.21	85.25	85.40
103	2200	85.04	85.21	85.28	85.21	85.25	85.40
104	2215	85.04	85.25	85.28	85.21	85.25	85.40
105	2230	85.04	85.25	85.28	85.21	85.25	85.40
106	2245	85.04	85.25	85.28	85.21	85.25	85.40
107	2300	85.04	85.25	85.28	85.21	85.25	85.40
108	2315	85.04	85.21	85.28	85.21	85.25	85.36
109	2330	85.04	85.21	85.28	85.21	85.25	85.36
110	2345	85.04	85.21	85.28	85.21	85.25	85.36

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
1	1615	180.68	181.68	185.33	178.36	176.04	180.35
2	1630	180.02	182.34	183.00	176.37	174.05	178.36
3	1645	178.36	181.35	181.35	176.04	175.71	177.70
4	1700	176.70	182.01	178.69	174.38	171.39	174.38
5	1715	173.72	179.02	176.04	172.39	169.40	171.73
6	1730	171.73	176.04	173.38	170.07	167.41	169.40
7	1745	170.07	174.05	171.73	169.40	167.08	168.74
8	1800	169.74	175.04	167.08	168.74	165.42	167.75
9	1815	168.74	174.05	168.08	168.08	164.43	167.08
10	1830	168.08	172.72	169.74	163.43	167.41	167.41
11	1845	167.75	172.39	166.75	167.08	163.10	166.42
12	1900	167.41	171.73	167.08	167.08	163.10	166.42
13	1915	166.75	170.73	166.75	166.42	162.44	165.42
14	1930	166.75	170.73	165.09	166.09	162.11	165.42
15	1945	166.75	169.74	167.08	166.09	161.44	165.09
16	2000	165.76	169.40	165.42	165.42	161.44	164.76
17	2015	165.76	169.40	164.10	165.42	161.44	165.42
18	2030	165.42	168.08	164.43	164.76	160.78	164.76
19	2045	165.09	168.08	165.42	165.09	160.78	164.43
20	2100	165.09	167.41	164.10	164.43	160.45	164.43
21	2115	165.76	169.40	163.43	164.10	161.78	164.43
22	2130	165.42	169.40	164.76	164.10	160.78	163.77
23	2145	166.42	169.07	163.10	163.77	160.78	164.43
24	2200	166.42	169.74	165.42	164.43	160.12	164.10
25	2215	165.76	169.74	164.76	163.43	160.78	164.10
26	2230	165.76	169.07	164.76	163.43	160.78	164.10
27	2245	165.76	169.40	164.43	163.10	161.11	163.77
28	2300	165.42	167.08	166.75	163.10	162.77	164.10
29	0330	167.75	166.09	168.08	165.42	163.77	166.42
30	0345	168.41	166.42	167.75	165.09	163.77	165.42
31	0400	168.08	166.09	167.08	165.76	164.10	165.09
32	0415	167.41	166.42	168.08	165.09	164.43	167.41
33	0430	167.08	167.08	167.75	166.42	164.10	165.76
34	0445	167.75	167.08	168.74	166.42	164.10	166.75
35	0500	168.74	167.08	168.08	166.42	163.77	166.75
36	0515	168.41	165.76	167.75	166.42	164.10	166.09
37	0530	167.75	166.09	169.74	165.76	164.76	166.75
38	0545	168.08	166.42	168.74	166.42	164.43	167.41
39	0600	168.41	166.75	168.41	167.08	164.43	166.42
40	0615	169.07	167.41	169.74	166.75	164.76	168.08
41	0630	168.74	167.08	170.07	166.75	164.76	166.09
42	0645	16..4	167.41	169.74	166.42	165.76	167.41
43	0700	169.07	167.41	169.40	166.75	165.09	167.41
44	0715	169.74	167.75	168.08	166.42	166.09	168.08
45	0730	168.41	167.41	168.74	168.08	165.76	166.75
46	0745	168.74	167.41	169.74	168.08	166.42	167.08
47	0800	169.74	167.41	169.74	167.08	165.42	166.75
48	815	169.40	167.41	170.07	167.08	165.42	167.41
49	0830	169.40	168.08	171.06	166.75	165.76	167.41
50	0845	168.74	168.08	171.39	168.08	165.42	168.08

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
51	0900	170.07	167.75	169.40	167.08	166.42	168.08
52	915	169.74	168.08	170.73	167.08	165.76	167.41
53	0930	169.40	168.08	171.39	167.75	165.09	167.75
54	0945	169.74	168.08	170.40	167.41	165.76	168.41
55	1000	170.07	169.40	170.40	167.75	166.09	168.41
56	1015	170.7	168.74	170.40	168.08	165.42	167.75
57	1030	170.40	169.07	170.73	167.75	165.76	168.41
58	1045	169.40	169.40	171.06	167.75	165.76	169.07
59	1100	170.40	168.41	170.73	168.08	166.75	167.08
60	1115	169.74	168.08	170.73	169.07	166.42	167.08
61	1130	169.74	169.74	170.73	168.41	166.09	169.74
62	1145	169.74	168.74	171.73	167.75	165.76	170.07
63	1200	170.73	169.40	170.40	168.08	166.75	169.74
64	1215	170.7	168.74	171.06	168.08	166.75	168.41
65	1230	170.73	169.07	170.73	168.08	166.75	169.07
66	1245	170.73	168.74	171.06	168.41	167.08	169.40
67	1300	170.73	169.40	171.06	169.07	167.08	169.07
68	1315	171.06	169.40	171.06	168.08	166.42	169.74
69	1330	171.06	169.07	171.39	168.74	167.08	169.07
70	1345	171.06	169.74	172.06	168.41	166.75	168.74
71	1400	171.06	169.40	171.06	168.41	167.08	170.07
72	1415	170.73	170.73	170.40	169.07	167.41	169.74
73	1430	171.06	169.74	172.06	169.74	166.75	170.73
74	1445	170.73	169.74	171.73	168.74	167.41	169.74
75	1500	171.06	169.74	171.06	168.74	167.08	169.74
76	1515	171.39	169.40	172.06	169.07	167.08	169.74
77	1530	171.06	170.07	172.06	169.74	167.75	170.40
78	1545	171.39	170.07	171.39	169.74	167.75	171.06
79	1600	171.73	170.07	172.72	169.07	167.41	170.73
80	1615	171.73	170.40	173.05	169.74	169.40	171.73
81	1630	171.73	170.40	172.06	169.07	168.08	169.40
82	1645	172.06	170.40	172.39	170.07	168.41	170.40
83	1700	172.39	170.40	173.05	170.73	168.08	170.07
84	1715	172.06	170.73	172.39	170.73	169.07	171.73
85	1730	171.39	170.73	172.06	170.40	169.07	170.40
86	1745	171.39	170.73	172.72	169.74	169.74	169.74
87	1800	171.73	170.40	173.72	170.40	169.07	170.40
88	1815	171.73	170.73	173.38	169.74	169.07	171.06
89	1830	172.72	170.73	173.38	169.74	168.74	171.06
90	1845	172.39	171.06	173.72	169.74	168.08	171.39
91	1900	172.72	171.06	173.38	170.73	169.74	170.40
92	1915	172.72	170.73	174.05	172.06	167.75	170.07
93	1930	172.72	171.06	174.05	170.40	169.07	171.39
94	1945	172.06	171.06	172.39	170.40	168.08	171.39
95	2000	173.38	170.73	173.38	170.40	169.74	170.40
96	2015	173.05	170.73	172.39	171.06	168.74	171.06
97	2030	172.06	171.39	173.05	170.40	169.74	172.06
98	2045	172.72	171.73	173.72	171.06	170.40	171.39
99	2100	172.06	171.39	174.05	170.40	168.74	170.73
100	2115	173.05	171.06	173.38	170.40	168.74	170.73

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
101	2130	173.38	170.73	172.72	170.73	170.40	173.05
102	2145	172.72	171.73	173.38	170.73	169.74	170.73
103	2200	173.05	170.73	173.38	170.73	169.40	171.39
104	2215	173.72	171.73	174.71	170.73	170.07	170.73
105	2230	174.05	171.06	174.05	170.73	170.07	172.39
106	2245	172.72	171.06	173.72	171.06	169.74	172.39
107	2300	173.38	172.39	174.05	171.39	170.73	172.72
108	2315	173.38	171.39	173.72	171.06	169.40	173.38
109	2330	173.38	171.39	174.05	171.06	168.41	172.06
110	2345	172.72	171.73	174.71	171.39	168.41	171.06

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
1	1615	166.42	167.75	167.08	167.08	014880	014900
2	1630	168.08	169.07	168.74	168.41	014955	014975
3	1645	168.41	169.74	169.74	168.74	015125	015140
4	1700	170.40	171.39	171.06	170.73	015375	015385
5	1715	170.40	171.39	171.39	170.73	015665	015680
6	1730	170.73	172.39	172.06	170.73	015980	016000
7	1745	170.73	172.06	172.39	171.06	026330	026380
8	1800	171.06	172.39	172.39	171.06	28400	28440
9	1815	171.39	172.39	172.39	171.73	30550	30600
10	1830	170.73	172.39	172.39	171.39	32580	32620
11	1845	171.73	172.39	172.39	172.06	34690	34730
12	1900	171.06	172.72	172.39	171.73	36770	36800
13	1915	171.39	172.39	172.72	172.39	38860	38910
14	1930	170.73	172.39	172.72	171.39	40920	40960
15	1945	171.73	172.72	172.72	172.06	43040	43070
16	2000	171.39	172.39	172.72	171.06	45230	45260
17	2015	172.06	172.39	172.72	171.39	47130	47150
18	2030	171.39	172.72	172.39	171.39	49150	49170
19	2045	170.73	172.72	172.72	171.06	51170	51200
20	2100	170.73	173.05	172.72	171.06	53180	53190
21	2115	171.06	172.39	172.72	171.06	55190	55200
22	2130	170.73	172.39	172.39	171.73	57160	57180
23	2145	172.39	172.39	172.72	171.73	59170	59180
24	2200	171.06	172.72	172.39	171.39	61070	61080
25	2215	170.73	172.39	172.39	170.73	62110	62120
26	2230	171.06	172.06	172.39	170.73	63540	63550
27	2245	169.74	172.39	172.39	170.07	64730	64740
28	2300	171.06	171.39	171.73	169.74	64790	64800
29	0330	166.75	168.41	168.74	166.42	63642	63644
30	0345	166.09	168.41	168.74	166.75	63588	63592
31	0400	166.09	168.08	168.74	166.42	63535	63539
32	0415	166.75	168.08	168.74	167.75	63480	63484
33	0430	166.42	167.75	169.40	166.75	63427	63431
34	0445	166.75	168.08	169.07	166.09	63375	63379
35	0500	166.75	168.08	168.41	165.76	63337	63341
36	0515	166.75	168.08	168.74	166.42	63329	63333
37	0530	165.76	167.75	168.74	166.75	63318	63323
38	0545	166.75	168.08	168.74	166.42	63310	63314
39	0600	166.09	168.08	168.41	167.41	63301	63306
40	0615	165.76	168.08	168.41	167.08	63293	63300
41	0630	165.09	167.75	168.08	166.75	63285	63291
42	0645	168.41	167.41	168.41	166.42	63278	63284
43	0700	165.76	167.45	168.41	166.42	63271	63277
44	0715	168.08	167.75	168.08	166.75	63263	63269
45	0730	167.75	167.08	168.74	166.42	63255	63262
46	0745	166.75	167.08	168.41	165.76	63248	63255
47	0800	166.75	167.41	168.08	165.09	63241	63247
48	815	168.41	167.41	168.08	165.42	63235	63240
49	0830	165.42	167.41	168.41	165.76	63229	63234
50	0845	169.74	167.41	168.41	165.76	63220	63226

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
51	0900	165.42	167.41	168.08	166.42	63214	63220
52	915	165.09	167.75	168.08	166.42	63207	63214
53	0930	164.43	167.08	168.08	165.76	63200	63206
54	0945	166.75	167.08	168.08	166.09	63193	63200
55	1000	166.42	167.08	168.41	165.76	63185	63191
56	1015	166.42	167.41	168.08	165.42	63177	63183
57	1030	167.08	167.41	167.75	166.42	63172	63177
58	1045	165.42	167.08	168.08	167.08	63165	63171
59	1100	166.75	167.08	168.08	165.42	63158	63166
60	1115	166.09	167.41	167.75	165.76	63151	63160
61	1130	166.42	167.08	167.75	165.42	63144	63154
62	1145	167.01	167.75	168.08	165.76	63138	63148
63	1200	166.75	167.08	167.75	165.76	63132	63142
64	1215	165.09	167.08	167.75	166.09	63133	63125
65	1230	166.75	167.41	167.75	166.42	63215	63195
66	1245	165.42	166.75	168.08	165.76	63190	63185
67	1300	166.42	167.08	167.08	165.09	63170	63175
68	1315	164.10	167.08	167.75	165.76	63168	63175
69	1330	164.76	167.08	167.75	165.42	63166	63173
70	1345	166.42	167.08	167.75	165.42	63164	63171
71	1400	167.75	167.08	167.08	165.42	63161	63168
72	1415	165.76	166.75	168.08	165.09	63157	63165
73	1430	165.09	167.08	167.08	165.42	63153	63161
74	1445	164.43	167.08	167.41	165.76	63149	63157
75	1500	163.43	166.75	168.08	165.42	63147	63155
76	1515	165.42	167.08	167.41	166.09	63145	63153
77	1530	164.76	166.75	167.41	165.42	63144	63152
78	1545	165.42	166.75	167.41	165.42	63144	63152
79	1600	165.42	166.75	167.08	165.42	63144	63150
80	1615	166.09	167.08	167.41	166.42	63143	63149
81	1630	165.42	167.08	167.75	165.42	63144	63150
82	1645	165.09	166.75	167.75	165.42	63145	63150
83	1700	166.42	166.75	167.75	164.10	63144	63149
84	1715	164.43	166.42	167.08	166.42	63142	63147
85	1730	164.10	166.75	168.08	166.42	63141	63146
86	1745	167.08	166.42	167.08	165.09	63137	63143
87	1800	165.09	166.75	167.75	165.76	63135	63141
88	1815	165.76	166.42	167.75	165.09	63133	63139
89	1830	165.09	166.75	167.08	165.42	63130	63137
90	1845	167.41	166.75	167.75	165.42	63127	63135
91	1900	164.10	167.08	167.41	165.42	63125	63132
92	1915	167.08	166.42	167.08	165.42	63124	63131
93	1930	165.09	166.75	167.41	165.42	63122	63129
94	1945	165.76	166.75	167.41	166.09	63120	63127
95	2000	165.42	166.42	167.08	165.42	63119	63126
96	2015	164.43	166.75	166.75	164.76	63117	63124
97	2030	166.42	166.75	167.08	165.76	63115	63122
98	2045	166.42	166.42	167.75	165.42	63113	63121
99	2100	165.42	166.75	167.75	165.76	63111	63119
100	2115	164.43	166.42	167.08	165.42	63110	63116

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
101	2130	167.41	166.75	167.41	165.09	63107	63115
102	2145	167.08	166.75	167.08	165.42	63105	63113
103	2200	165.42	166.09	167.08	165.42	63103	63111
104	2215	167.75	166.75	167.08	165.42	63100	63110
105	2230	165.09	166.42	167.41	164.76	63097	63106
106	2245	165.76	166.75	167.75	165.09	63094	63105
107	2300	166.75	166.75	167.08	165.76	63091	63100
108	2315	166.09	166.42	167.08	165.76	63088	63097
109	2330	165.09	166.42	167.41	165.42	63085	63093
110	2345	164.43	166.42	167.08	164.76	63082	63090

REC #	TIME	TPAV	VPAV	PRAV	MASS
1	1615	91.417	.637	14.882	20580.8
2	1630	91.856	.631	14.957	20680.1
3	1645	92.411	.633	15.125	20899.4
4	1700	93.31	.62	15.372	21239.7
5	1715	93.643	.603	15.665	21672.9
6	1730	93.956	.59	15.983	22136.9
7	1745	94.146	.584	26.356	37050.1
8	1800	94.477	.578	28.422	40006
9	1815	94.703	.574	30.578	43090.3
10	1830	94.835	.575	32.602	45984.6
11	1845	94.899	.568	34.71	49016.1
12	1900	94.951	.567	36.782	51987.6
13	1915	95.031	.563	38.883	55001
14	1930	95.023	.559	40.94	57960
15	1945	95.071	.56	43.054	60987.7
16	2000	95.1	.555	45.243	64132.5
17	2015	95.113	.558	47.14	66849.7
18	2030	95.125	.553	49.16	69755.3
19	2045	95.123	.552	51.183	72659.4
20	2100	95.111	.55	53.182	75531.9
21	2115	95.329	.553	55.194	78384.8
22	2130	95.219	.55	57.168	81237.6
23	2145	95.522	.554	59.17	84058.3
24	2200	95.914	.552	61.069	86723.4
25	2215	95.412	.55	62.109	88296.9
26	2230	95.565	.549	63.54	90324.6
27	2245	95.563	.547	64.731	92035.7
28	2300	94.612	.549	64.791	92277
29	330	92.325	.543	63.638	91005.8
30	345	92.281	.54	63.585	90940.6
31	400	92.231	.538	63.532	90874.2
32	415	92.233	.547	63.477	90781.9
33	430	92.173	.542	63.424	90722.7
34	445	92.168	.545	63.372	90644.1
35	500	92.137	.544	63.334	90596.4
36	515	92.128	.543	63.326	90587.8
37	530	92.111	.544	63.315	90572.9
38	545	92.066	.547	63.307	90563.9
39	600	92.056	.545	63.298	90556.1
40	615	92.036	.551	63.291	90541.5
41	630	92.043	.543	63.283	90539
42	645	92.024	.552	63.276	90519
43	700	92.008	.548	63.269	90518
44	715	91.985	.554	63.261	90500.9
45	730	91.965	.55	63.253	90499.9
46	745	91.95	.55	63.246	90491.9
47	800	91.945	.546	63.239	90486.8
48	815	91.93	.551	63.232	90473.9
49	830	91.914	.549	63.226	90470.2
50	845	91.913	.556	63.218	90447.7

REC #	TIME	TPAV	VPAV	PRAV	MASS
51	900	91.892	.552	63.212	90448.5
52	915	91.899	.55	63.205	90441.4
53	930	91.875	.548	63.198	90437.4
54	945	91.868	.553	63.191	90421.1
55	1000	91.863	.555	63.183	90407.7
56	1015	91.837	.551	63.175	90404.8
57	1030	91.837	.555	63.169	90391.3
58	1045	91.821	.556	63.163	90384
59	1100	91.807	.552	63.157	90383.4
60	1115	91.848	.551	63.15	90368.5
61	1130	91.795	.558	63.144	90358.1
62	1145	91.759	.56	63.138	90352.2
63	1200	91.764	.56	63.132	90342.9
64	1215	91.79	.554	63.124	90334.9
65	1230	91.82	.559	63.2	90433
66	1245	91.783	.558	63.182	90415.4
67	1300	91.757	.557	63.167	90398.7
68	1315	91.795	.556	63.166	90392.4
69	1330	91.827	.556	63.164	90384.2
70	1345	91.861	.557	63.162	90374.4
71	1400	91.886	.562	63.159	90359.5
72	1415	91.894	.56	63.156	90355.5
73	1430	91.918	.561	63.152	90344
74	1445	91.931	.559	63.148	90339.9
75	1500	91.952	.557	63.146	90336.1
76	1515	91.967	.56	63.144	90325.8
77	1530	91.991	.562	63.143	90318.1
78	1545	92.013	.564	63.143	90311
79	1600	92.046	.563	63.142	90306.4
80	1615	92.073	.573	63.141	90286.5
81	1630	92.107	.562	63.142	90298.3
82	1645	92.155	.565	63.142	90286.1
83	1700	92.387	.565	63.141	90247.3
84	1715	92.4	.57	63.139	90235
85	1730	92.424	.567	63.138	90234.2
86	1745	92.439	.566	63.135	90227.2
87	1800	92.45	.567	63.133	90221
88	1815	92.461	.568	63.131	90214.8
89	1830	92.449	.567	63.128	90214.4
90	1845	92.459	.571	63.126	90204.1
91	1900	92.395	.568	63.123	90215.2
92	1915	92.478	.567	63.122	90201.8
93	1930	92.497	.57	63.12	90190.9
94	1945	92.423	.569	63.118	90202.1
95	2000	92.505	.568	63.117	90188.1
96	2015	92.515	.566	63.115	90186.7
97	2030	92.537	.574	63.113	90168.6
98	2045	92.56	.575	63.112	90161.6
99	2100	92.537	.569	63.11	90171.2
100	2115	92.553	.566	63.108	90169.5

REC #	TIME	TPAV	VPAV	PRAV	MASS
101	2130	92.558	.579	63.106	90146.9
102	2145	92.571	.572	63.104	90132.6
103	2200	92.58	.57	63.102	90151
104	2215	92.593	.575	63.1	90139.4
105	2230	92.589	.575	63.096	90134.8
106	2245	92.605	.575	63.094	90128.4
107	2300	92.598	.581	63.09	90116.1
108	2315	92.586	.578	63.087	90117.7
109	2330	92.583	.572	63.084	90122.3
110	2345	92.586	.567	63.081	90123.9

JULY 10, 1982 (0000) - JULY 11, 1982 (2145)

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
1	0000	97.76	98.40	105.53	105.88	100.04	101.33
2	015	97.80	98.40	105.53	105.88	100.04	101.29
3	030	97.76	98.32	105.53	105.88	99.96	101.25
4	0045	97.76	98.32	105.53	105.88	100.04	101.21
5	100	97.72	98.36	105.53	105.88	100.12	101.21
6	0115	97.72	98.32	105.53	105.92	100.04	101.29
7	0130	97.72	98.36	105.53	105.92	100.04	101.25
8	145	97.68	98.24	105.53	105.84	100.08	101.21
9	200	97.60	98.24	105.53	105.92	100.08	101.17
10	215	97.64	98.24	105.53	105.92	100.04	101.21
11	230	97.60	98.24	105.53	105.92	100.04	101.21
12	245	97.64	98.24	105.53	105.92	100.12	101.21
13	300	97.64	98.28	105.53	105.92	100.00	101.17
14	315	97.60	98.20	105.53	105.92	100.04	101.21
15	325	97.56	98.20	105.53	105.96	100.04	101.21
16	0340	97.56	98.20	106.0	106.	99.92	101.25
17	400	97.56	98.16	106.37	106.	100.12	101.29
18	415	97.52	98.16	106.37	106.	100.12	101.33
19	430	97.48	98.12	106.37	106.04	100.16	101.29
20	445	97.48	98.12	106.37	106.04	100.16	101.24
21	500	97.40	98.08	106.37	106.00	100.16	101.33
22	515	97.44	98.08	106.37	106.00	100.16	101.29
23	530	97.44	98.08	106.37	106.00	100.08	101.29
24	545	97.40	97.96	106.37	106.04	100.12	101.29
25	600	97.36	97.96	106.37	106.00	100.16	101.25
26	615	97.36	97.96	106.37	106.00	100.12	101.25
27	630	97.36	97.96	106.37	105.96	100.08	101.25
28	645	97.24	97.84	106.37	105.96	100.12	101.17
29	0700	97.32	97.80	106.37	105.92	100.08	101.17
30	0715	97.16	97.84	106.37	105.84	100.12	101.13
31	0730	97.20	97.80	106.37	105.92	100.04	101.13
32	0745	97.24	97.80	106.37	105.88	100.16	101.13
33	0800	97.16	97.76	106.37	105.88	100.12	101.13
34	0815	97.12	97.80	106.37	105.88	100.00	101.13
35	0830	97.12	97.76	106.25	105.84	100.04	101.21
36	0845	97.12	97.76	106.25	105.88	100.12	101.13
37	0900	97.20	97.80	106.25	105.80	100.04	101.17
38	0915	97.08	97.72	106.25	105.88	100.08	101.17
39	0930	97.12	97.76	106.25	105.88	100.08	101.17
40	0945	97.12	97.72	106.25	105.92	100.12	101.21
41	1000	97.08	97.80	106.25	105.88	100.00	101.21
42	1015	97.16	97.80	106.25	105.92	100.16	101.21
43	1030	97.16	97.80	106.25	105.88	100.04	101.21
44	1045	97.16	97.80	106.25	105.92	100.12	101.21
45	1100	97.20	97.84	106.25	105.92	100.12	101.29
46	1115	97.20	97.80	106.25	105.88	100.16	101.25
47	1130	97.20	97.84	106.25	105.92	100.20	101.29
48	1230	97.32	97.88	106.49	105.92	100.20	101.29
49	1245	97.36	97.88	106.49	105.92	100.08	101.33
50	1300	97.36	97.88	106.49	105.92	100.12	101.33

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
51	1315	97.36	97.96	106.49	105.96	100.20	101.33
52	1330	97.44	98.00	106.49	106.00	100.12	101.41
53	1345	97.48	98.00	106.49	106.04	100.28	101.41
54	1400	97.44	98.08	106.49	106.04	100.32	101.45
55	1415	97.56	98.08	106.49	106.04	100.36	101.45
56	1430	97.56	98.12	106.49	106.04	100.32	101.53
57	1445	97.60	98.20	106.49	106.16	100.32	101.57
58	1500	97.64	98.20	106.49	106.16	100.44	101.57
59	1515	97.64	98.28	106.49	106.16	100.44	101.57
60	1530	97.64	98.32	106.49	106.16	100.36	101.65
61	1545	97.72	98.32	106.49	106.24	100.40	101.61
62	1600	97.72	98.36	106.49	106.24	100.52	101.61
63	1615	97.76	98.36	106.49	106.24	100.52	101.65
64	1630	97.80	98.40	106.49	106.24	100.56	101.65
65	1645	97.80	98.40	106.49	106.24	100.60	101.73
66	1700	97.84	98.44	106.49	106.32	100.52	101.77
67	1715	97.84	98.44	106.49	106.36	100.52	101.81
68	1730	97.88	98.52	106.77	106.40	100.72	101.85
69	1745	97.96	98.56	106.77	106.40	100.68	101.89
70	1800	97.96	98.90	106.77	106.44	100.72	101.93
71	1815	98.00	98.60	106.77	106.48	100.68	101.97
72	1830	97.96	98.64	106.77	106.52	100.80	101.97
73	1845	98.00	98.72	106.77	106.56	100.80	102.05
74	1900	98.08	98.72	106.77	106.60	100.80	102.09
75	1915	98.08	98.72	106.77	106.56	100.80	102.09
76	1930	98.08	98.76	106.77	106.56	100.80	102.05
77	1945	98.04	98.72	106.77	106.60	100.76	102.05
78	2000	98.08	98.76	106.77	106.64	100.76	102.05
79	2015	98.08	98.72	106.77	106.60	100.84	102.09
80	2030	98.08	98.64	106.77	106.64	100.84	101.97
81	2045	98.08	98.64	106.77	106.64	100.92	101.97
82	2100	98.08	98.64	106.77	106.60	100.92	102.01
83	2115	98.04	98.68	106.77	106.68	100.92	102.01
84	2130	98.08	98.68	106.77	106.64	100.80	102.01
85	2145	98.08	98.68	106.77	106.64	100.80	102.09
86	2200	98.08	98.64	106.77	106.68	100.84	102.05
87	2215	98.08	98.64	106.77	106.64	100.88	102.05
88	2230	98.04	98.60	106.77	106.72	100.96	102.09
89	2245	98.08	98.64	106.77	106.68	100.96	102.05
90	2300	98.04	98.68	106.77	106.68	100.84	102.09
91	2315	98.04	98.68	106.77	106.72	100.88	102.05
92	2330	97.96	98.60	106.77	106.76	100.84	102.09
93	2345	98.00	98.60	106.77	106.72	100.88	102.05
94	0	98.00	98.56	106.77	106.68	100.88	102.05
95	0015	97.88	98.52	106.77	106.68	100.84	102.01
96	0030	97.92	98.52	106.77	106.68	100.84	101.97
97	0045	97.92	98.48	106.77	106.72	100.84	102.01
98	0100	97.88	98.40	106.77	106.64	100.84	101.97
99	115	97.84	98.44	106.77	106.60	100.88	101.97
100	0130	97.88	98.36	106.77	106.52	100.96	101.97

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
101	0145	97.76	98.36	106.77	106.60	100.80	101.89
102	0200	97.76	98.32	106.77	106.56	100.80	101.89
103	215	97.72	98.24	106.77	106.60	100.84	101.89
104	230	97.68	98.24	106.77	106.52	100.76	101.85
105	245	97.64	98.24	106.77	106.56	100.80	101.85
106	300	97.64	98.20	106.77	106.56	100.68	101.81
107	315	97.68	98.20	106.77	106.56	100.80	101.85
108	330	97.64	98.12	106.77	106.52	100.80	101.81
109	345	97.60	98.16	106.77	106.52	100.76	101.81
110	400	97.60	98.20	106.77	106.44	100.84	101.81
111	415	97.60	98.12	106.77	106.48	100.68	101.77
112	430	97.56	98.08	106.77	106.48	100.64	101.81
113	445	97.56	98.12	106.77	106.44	100.08	101.77
114	500	97.56	98.12	106.77	106.44	100.64	101.77
115	515	97.52	98.04	106.77	106.44	100.84	101.77
116	0530	97.44	98.04	106.77	106.44	100.68	101.73
117	0545	97.52	98.04	106.77	106.36	100.60	101.73
118	600	97.44	98.00	106.77	106.32	100.76	101.69
119	615	97.48	97.96	106.77	106.36	100.64	101.69
120	630	97.44	97.92	106.77	106.36	100.60	101.69
121	645	97.44	97.96	106.77	106.28	100.68	101.65
122	0700	97.4	97.92	106.77	106.28	100.56	101.61
123	0715	97.40	97.92	106.77	106.32	100.76	101.65
124	0730	97.40	97.92	106.77	106.36	100.72	101.65
125	0745	97.40	97.88	106.77	106.40	100.56	101.65
126	0800	97.40	97.84	106.77	106.28	100.64	101.65
127	0815	97.36	97.08	106.77	106.24	100.56	101.61
128	0830	97.32	97.84	106.77	106.24	100.72	101.61
129	0845	97.32	97.80	106.77	106.20	100.68	101.61
130	0900	97.32	97.80	106.77	106.12	100.60	101.57
131	0915	97.32	97.80	106.77	106.12	100.72	101.57
132	0930	97.28	97.80	106.77	106.12	100.56	101.53
133	0945	97.36	97.80	106.77	106.00	100.48	101.49
134	1000	97.32	97.84	106.77	106.04	100.48	101.49
135	1015	97.28	97.88	106.77	106.00	100.52	101.49
136	1030	97.40	97.88	106.77	106.00	100.48	101.45
137	1045	97.36	97.88	106.77	105.92	100.56	101.49
138	1100	97.36	97.84	106.77	105.88	100.48	101.45
139	1115	97.32	97.88	106.77	105.88	100.44	101.45
140	1130	97.40	97.88	106.77	105.84	100.32	101.45
141	1145	97.40	97.88	106.77	105.84	100.44	101.41
142	1200	97.36	97.92	106.77	105.80	100.36	101.41
143	1215	97.44	97.88	106.77	105.72	100.32	101.37
144	1230	97.40	97.92	106.77	105.76	100.24	101.33
145	1245	97.36	97.88	106.77	105.64	100.28	101.33
146	1300	97.36	97.84	106.77	105.64	100.24	101.33
147	1315	97.32	97.84	106.77	105.64	100.24	101.33
148	1330	97.32	97.88	106.77	105.52	100.28	101.29
149	1345	97.28	97.84	106.77	105.52	100.40	101.25
150	1400	97.32	97.84	106.77	105.52	100.32	101.25

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
151	1415	97.36	97.84	106.77	105.52	100.16	101.25
152	1430	97.32	97.84	106.77	105.48	100.12	101.25
153	1445	97.36	97.92	106.77	105.48	100.16	101.25
154	1500	97.40	97.92	106.77	105.56	100.24	101.29
155	1515	97.40	98.00	106.77	105.48	100.20	101.29
156	1530	97.44	98.00	106.77	105.48	100.28	101.33
157	1545	97.44	98.04	106.77	105.48	100.28	101.23
158	1600	97.48	98.08	106.77	105.48	100.28	101.33
159	1615	97.52	98.04	106.77	105.48	100.20	101.33
160	1630	97.56	98.12	106.77	105.48	100.32	101.37
161	1645	97.56	98.12	106.77	105.52	100.24	101.33
162	1700	97.52	98.12	106.77	105.48	100.16	101.37
163	1715	97.56	98.12	106.77	105.48	100.20	101.33
164	1730	97.56	98.16	106.77	105.52	100.24	101.41
165	1745	97.60	98.20	106.77	105.52	100.32	101.45
166	1800	97.64	98.24	106.77	105.56	100.28	101.45
167	1815	97.64	98.24	106.77	105.60	100.40	101.41
168	1830	97.64	98.28	106.77	105.60	100.36	101.45
169	1845	97.64	98.28	106.77	105.60	100.40	101.49
170	1900	97.72	98.32	106.77	105.64	100.32	101.53
171	1915	97.76	98.40	106.77	105.64	100.32	101.53
172	1930	97.72	98.36	106.77	105.64	100.36	101.53
173	1945	97.68	98.40	106.77	105.60	100.40	101.53
174	2000	97.76	98.40	106.77	105.68	100.36	101.53
175	2015	97.72	98.40	106.77	105.64	100.36	101.49
176	2030	97.68	98.32	106.77	105.64	100.48	101.49
177	2045	97.68	98.32	106.77	105.64	100.36	101.49
178	2100	97.68	98.28	106.77	105.60	100.28	101.45
179	2115	97.68	98.28	106.77	105.60	100.28	101.45
180	2130	97.64	98.24	106.77	105.60	100.32	101.45
181	2145	97.64	98.24	106.77	105.56	100.28	101.45

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
1	0000	97.26	98.85	98.42	98.67	97.98	96.481
2	015	97.18	98.85	98.38	98.63	97.86	96.441
3	030	93.30	98.85	98.38	98.71	97.86	96.402
4	0045	97.50	98.85	98.38	98.59	97.94	96.40
5	100	97.50	98.82	98.30	98.59	97.86	96.40
6	0115	97.50	98.82	98.38	98.55	97.90	96.40
7	0130	97.62	98.85	98.42	98.55	97.82	96.36
8	145	97.62	98.85	98.26	98.26	97.82	96.362
9	200	97.54	98.85	98.30	98.59	97.74	96.362
10	215	97.26	98.85	98.38	98.59	97.70	96.362
11	230	97.58	98.85	98.38	98.63	97.66	96.322
12	245	97.22	98.85	98.30	98.63	97.70	96.322
13	300	97.46	98.85	98.22	98.59	97.70	96.282
14	315	97.30	98.82	98.30	98.59	97.74	96.282
15	325	97.14	98.82	98.30	98.59	97.70	96.242
16	0340	97.26	98.82	98.30	98.63	97.66	96.282
17	400	97.22	98.85	98.30	98.59	97.74	96.242
18	415	97.10	98.85	98.34	98.63	97.63	96.242
19	430	97.22	98.82	98.30	98.63	97.58	96.202
20	445	97.14	98.82	98.22	98.63	97.66	96.202
21	500	96.98	98.85	98.26	98.59	97.66	96.202
22	515	97.34	98.92	98.22	98.59	97.62	96.202
23	530	96.98	98.22	98.30	98.63	97.66	96.202
24	545	97.06	98.82	98.26	98.59	97.62	96.162
25	600	97.10	98.85	98.22	98.59	97.62	96.162
26	615	97.18	98.82	98.18	98.59	97.58	96.122
27	630	96.98	98.82	98.14	98.59	97.58	96.122
28	645	96.94	98.82	98.10	98.59	97.50	96.082
29	0700	97.02	98.82	98.10	98.55	97.50	96.082
30	0715	96.74	98.82	98.06	98.55	97.42	96.04
31	0730	97.10	98.74	98.10	98.47	97.46	96.04
32	0745	96.94	98.78	98.14	98.55	97.42	96.00
33	0800	96.98	98.78	98.02	98.55	97.54	96.00
34	0815	96.98	98.78	98.06	98.55	97.46	96.00
35	0830	97.14	98.74	98.10	98.55	97.46	96.00
36	0845	96.60	98.78	98.10	98.51	97.46	96.00
37	0900	96.82	98.78	98.10	98.43	97.38	96.00
38	0915	96.82	98.78	98.06	98.51	97.38	96.00
39	0930	96.82	98.78	98.10	98.47	97.46	96.00
40	0945	97.06	98.82	98.10	98.55	97.50	96.042
41	1000	97.14	98.82	98.14	98.51	97.34	96.04
42	1015	97.06	98.82	98.18	98.51	97.46	96.08
43	1030	96.86	98.82	98.18	98.47	97.50	96.04
44	1045	97.18	98.85	98.18	98.55	97.58	96.08
45	1100	96.98	98.85	98.18	98.55	97.50	96.082
46	1115	97.18	98.85	98.22	98.63	97.46	96.082
47	1130	97.10	98.85	98.22	98.55	97.50	96.08
48	1230	97.06	98.85	98.18	98.59	97.54	96.122
49	1245	97.22	98.85	98.18	98.63	97.54	96.122
50	1300	97.10	98.89	98.22	98.59	97.54	96.12

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
51	1315	97.14	98.89	98.26	98.67	97.54	96.122
52	1330	97.18	98.93	98.30	98.67	97.62	96.162
53	1345	97.10	98.97	98.34	98.71	97.78	96.242
54	1400	97.38	98.89	98.38	98.67	97.62	96.202
55	1415	97.42	98.97	98.34	98.71	97.70	96.282
56	1430	97.42	98.97	98.42	98.71	97.74	96.282
57	1445	97.58	99.01	98.46	98.75	97.82	96.322
58	1500	97.46	99.05	98.54	98.83	97.78	96.362
59	1515	97.42	99.05	98.74	98.79	97.82	96.402
60	1530	97.66	99.09	98.54	98.83	97.90	96.402
61	1545	97.54	99.09	98.58	98.83	97.90	96.441
62	1600	97.58	99.13	98.58	98.87	97.86	96.441
63	1615	97.58	99.13	98.58	98.87	97.90	96.402
64	1630	97.62	99.13	98.74	98.87	97.86	96.441
65	1645	97.54	99.17	98.62	98.87	97.90	96.481
66	1700	97.66	99.21	98.62	98.95	97.94	96.521
67	1715	97.78	99.21	98.85	98.95	98.10	96.562
68	1730	97.62	99.25	98.74	98.95	98.10	96.602
69	1745	97.70	99.29	98.85	98.95	98.10	96.602
70	1800	97.70	99.33	98.99	98.99	98.14	96.682
71	1815	97.74	99.37	98.85	99.07	98.14	96.642
72	1830	98.02	99.37	98.93	99.07	98.38	96.722
73	1845	97.86	99.41	98.93	99.11	98.30	96.762
74	1900	97.82	99.45	99.05	99.15	98.38	96.762
75	1915	97.98	99.49	98.97	99.19	98.38	96.802
76	1930	97.78	99.45	99.05	99.19	98.38	96.802
77	1945	98.02	99.45	99.09	99.19	98.46	96.802
78	2000	97.90	99.49	99.05	99.19	98.34	96.802
79	2015	97.70	99.45	98.97	99.19	98.26	96.802
80	2030	97.90	99.49	99.01	99.19	98.30	96.802
81	2045	97.66	99.49	98.89	99.23	98.26	98.802
82	2100	97.94	99.49	98.49	99.27	98.34	96.762
83	2115	97.98	99.45	98.89	99.23	98.34	96.802
84	2130	97.78	99.49	98.93	99.23	98.30	96.762
85	2145	98.02	99.49	98.93	99.27	98.30	96.762
86	2200	97.74	99.49	98.93	99.23	98.26	96.802
87	2215	97.82	99.49	98.97	99.27	98.30	96.762
88	2230	97.70	99.49	99.01	99.27	98.22	96.762
89	2245	97.90	99.53	98.93	99.27	98.30	96.802
90	2300	97.90	99.49	98.89	99.23	98.30	96.762
91	2315	97.82	99.53	98.89	99.35	98.26	96.802
92	2330	97.74	99.49	98.89	99.27	98.30	96.762
93	2345	97.74	99.53	98.97	99.27	98.22	96.762
94	0	97.82	99.53	98.82	99.23	98.26	96.76
95	0015	97.66	99.49	98.93	99.23	98.22	96.72
96	0030	97.85	99.49	98.82	99.27	98.22	96.72
97	0045	97.66	99.49	98.85	99.31	98.26	96.722
98	0100	97.70	99.49	98.89	99.27	98.18	96.72
99	115	97.58	99.49	98.89	99.27	98.22	96.68
100	0130	97.78	99.49	98.85	99.27	98.10	96.64

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
101	0145	97.70	99.45	98.85	99.19	98.06	96.602
102	0200	97.42	99.45	98.78	99.19	98.18	96.602
103	215	97.62	99.45	98.74	99.19	98.06	96.602
104	230	97.58	99.41	98.78	99.15	98.06	96.562
105	245	97.58	99.41	98.70	99.11	98.06	96.562
106	300	97.54	99.37	98.74	99.07	98.06	96.521
107	315	97.58	99.37	98.62	99.11	98.10	96.481
108	330	97.46	99.37	98.74	99.11	97.94	96.441
109	345	97.5	99.37	98.66	99.11	98.02	96.481
110	400	97.34	99.37	98.70	99.07	97.98	96.441
111	415	97.30	99.33	98.58	99.11	97.94	96.441
112	430	97.54	99.37	98.62	99.07	97.90	96.441
113	445	97.38	99.33	98.58	99.07	98.06	96.441
114	500	97.46	99.33	98.62	99.07	97.90	96.441
115	515	97.22	99.33	98.58	99.03	97.90	96.402
116	0530	97.46	99.29	98.58	99.07	97.82	96.402
117	0545	97.50	99.33	98.54	98.99	97.90	96.362
118	600	97.34	99.29	98.54	99.03	97.86	96.362
119	615	97.14	99.25	98.50	98.99	97.90	96.362
120	630	97.18	99.21	98.54	98.95	97.82	96.322
121	645	97.46	99.21	98.50	98.95	97.78	96.282
122	0700	97.30	99.17	98.50	98.91	97.7	96.242
123	0715	97.02	99.17	98.50	98.91	97.74	96.242
124	0730	97.18	99.17	98.42	98.95	97.86	96.202
125	0745	97.02	99.17	98.42	98.33	97.78	96.202
126	0800	97.10	99.13	98.42	98.87	97.90	96.162
127	0815	97.02	99.13	98.46	98.79	97.74	96.122
128	0830	96.94	99.09	98.46	98.87	97.66	96.122
129	0845	97.10	99.09	98.42	98.83	97.70	96.122
130	0900	96.94	99.09	98.34	98.83	97.66	96.082
131	0915	96.94	99.09	98.30	98.79	97.62	96.082
132	0930	96.90	99.05	98.38	98.38	97.58	96.082
133	0945	96.86	99.05	98.38	98.75	97.66	96.082
134	1000	96.94	99.05	98.38	98.79	97.70	96.122
135	1015	96.98	99.05	98.38	98.75	97.62	96.082
136	1030	97.26	99.05	98.30	98.75	97.66	96.122
137	1045	97.02	99.01	98.34	98.75	97.58	96.122
138	1100	96.90	99.05	98.30	98.75	97.58	96.082
139	1115	97.06	99.05	98.30	98.75	97.58	96.122
140	1130	97.14	99.01	98.30	98.79	97.62	96.122
141	1145	96.98	99.01	98.38	98.75	97.58	96.162
142	1200	97.02	99.05	98.26	98.71	97.58	96.162
143	1215	97.14	98.97	98.26	98.75	97.58	96.122
144	1230	97.14	98.97	98.22	98.67	97.50	96.082
145	1245	96.98	98.97	98.30	98.75	97.46	96.082
146	1300	97.18	98.97	98.26	98.67	97.50	96.082
147	1315	96.78	98.93	98.26	98.71	97.50	96.082
148	1330	96.98	98.89	98.26	98.63	97.46	96.082
149	1345	96.78	98.93	98.18	98.63	97.46	96.042
150	1400	96.82	98.89	98.26	98.67	97.46	96.042

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
151	1415	97.06	98.89	98.22	98.55	97.42	96.082
152	1430	97.02	98.89	98.14	98.59	97.42	96.042
153	1445	96.98	98.89	98.18	98.59	97.38	96.082
154	1500	97.10	98.89	98.26	98.59	97.46	96.082
155	1515	97.18	98.93	98.26	98.67	97.54	96.122
156	1530	97.38	98.93	98.38	98.63	97.46	96.122
157	1545	97.14	98.97	98.26	98.63	97.58	96.162
158	1600	97.34	99.01	98.26	98.71	97.54	96.202
159	1615	97.10	99.01	98.30	98.67	97.50	96.242
160	1630	97.26	99.05	98.38	98.71	97.54	96.242
161	1645	97.22	99.05	98.38	98.75	97.62	96.242
162	1700	97.18	99.01	98.38	98.75	97.58	96.242
163	1715	97.18	99.05	98.34	98.75	97.58	96.282
164	1730	97.34	99.05	98.42	98.75	97.58	96.282
165	1745	97.26	99.09	98.50	98.79	97.66	96.282
166	1800	97.38	99.09	98.42	98.79	97.70	96.322
167	1815	97.46	99.13	98.54	98.75	97.78	96.362
168	1830	97.50	99.17	98.46	98.75	97.78	96.402
169	1845	97.50	99.17	98.58	98.79	97.78	96.402
170	1900	97.58	99.17	98.54	98.83	97.82	96.441
171	1915	97.50	99.21	98.66	98.79	97.90	96.48
172	1930	97.66	99.17	98.62	98.87	97.86	96.48
173	1945	97.58	99.17	98.54	98.83	97.82	96.52
174	2000	97.70	99.21	98.58	98.91	97.86	96.52
175	2015	97.90	99.21	98.85	98.87	97.82	96.52
176	2030	97.54	99.17	98.54	98.87	97.86	96.48
177	2045	97.58	99.17	98.58	98.91	97.86	96.48
178	2100	97.42	99.17	98.50	98.87	97.78	96.48
179	2115	97.50	99.17	98.58	98.87	97.78	96.44
180	2130	97.50	99.17	98.46	98.79	97.74	96.44
181	2145	97.34	99.09	98.46	98.79	97.74	96.402

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
1	0000	96.68	96.50	99.33	95.78	96.94	96.24
2	015	96.64	96.34	99.29	95.74	96.90	96.16
3	030	96.68	96.42	99.29	95.70	96.86	96.16
4	0045	96.60	96.38	99.25	95.70	96.86	96.12
5	100	96.60	96.26	99.33	95.66	96.82	96.12
6	0115	96.64	96.30	99.33	95.66	96.82	96.08
7	0130	96.64	96.34	99.37	95.66	96.82	96.16
8	145	96.60	96.46	99.33	95.66	96.82	96.08
9	200	96.60	96.30	99.37	95.62	96.82	96.04
10	215	96.52	96.22	99.41	95.58	96.82	96.08
11	230	96.56	96.38	99.41	95.58	96.78	96.04
12	245	96.52	96.14	99.37	95.58	96.78	96.00
13	300	96.48	96.22	99.37	95.54	96.78	95.96
14	315	96.48	95.83	99.29	95.54	96.74	96.00
15	325	96.48	95.79	99.33	95.54	96.74	95.96
16	0340	96.48	96.03	99.37	95.54	96.74	95.96
17	400	96.48	95.67	99.29	95.50	96.70	95.96
18	415	96.48	95.95	99.25	95.50	96.70	96.00
19	430	96.44	95.95	99.29	95.46	96.70	95.96
20	445	96.48	95.71	99.25	95.46	96.66	95.92
21	500	96.48	95.83	99.25	95.42	96.66	95.92
22	515	96.48	96.03	99.25	95.42	96.66	95.88
23	530	96.48	95.75	99.25	95.42	96.62	95.88
24	545	96.44	95.71	99.21	95.42	96.62	95.88
25	600	96.40	95.67	99.21	95.38	96.62	95.84
26	615	96.40	95.83	99.25	95.38	96.62	95.84
27	630	96.40	95.55	99.21	95.34	96.58	95.84
28	645	96.36	95.55	99.21	95.34	96.54	95.77
29	0700	96.32	95.47	99.17	95.30	96.50	95.80
30	0715	96.32	95.43	99.17	95.22	96.50	95.77
31	0730	96.28	95.51	99.09	95.22	96.50	95.69
32	0745	96.32	95.47	99.09	95.22	96.46	95.73
33	0800	96.28	95.55	99.05	95.22	96.50	95.73
34	0815	96.32	95.51	99.05	95.22	96.46	95.69
35	0830	96.28	95.39	99.05	95.22	96.46	95.73
36	0845	96.28	95.51	99.05	95.22	96.50	95.73
37	0900	96.28	95.63	99.09	95.22	96.46	95.73
38	0915	96.28	95.55	99.05	95.26	96.46	95.73
39	0930	96.36	95.59	99.09	95.22	96.50	95.73
40	0945	96.28	95.63	99.05	95.26	96.50	95.77
41	1000	96.28	95.63	99.05	95.26	96.46	95.73
42	1015	96.32	95.67	99.05	95.30	96.50	95.80
43	1030	96.40	95.59	99.09	95.30	96.50	95.80
44	1045	96.36	95.71	99.05	95.30	96.50	95.84
45	1100	96.32	95.79	99.05	95.34	96.54	95.84
46	1115	96.40	95.63	99.09	95.30	96.54	95.84
47	1130	96.48	95.75	99.13	95.34	96.54	95.84
48	1230	96.36	95.67	99.09	95.38	96.58	95.84
49	1245	96.40	95.59	99.21	95.38	96.58	95.88
50	1300	96.36	95.71	99.17	95.34	96.58	95.84

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
51	1315	96.44	95.79	99.17	95.38	96.62	95.88
52	1330	96.48	95.75	99.29	95.46	96.66	95.92
53	1345	96.44	95.95	99.25	95.46	96.66	95.92
54	1400	96.52	95.95	99.29	95.50	96.70	95.96
55	1415	96.56	96.10	99.29	95.54	96.70	96.00
56	1430	96.56	96.03	99.33	95.54	96.78	96.04
57	1445	96.60	96.18	99.37	95.62	96.78	96.12
58	1500	96.72	96.38	99.41	95.66	96.82	96.12
59	1515	96.72	96.42	99.49	95.66	96.86	96.16
60	1530	96.68	96.38	99.45	95.66	96.68	96.24
61	1545	96.68	96.34	99.53	95.70	96.90	96.20
62	1600	96.76	96.34	99.49	95.74	96.90	96.20
63	1615	96.76	96.34	99.57	95.74	96.90	96.16
64	1630	96.76	96.44	99.57	95.78	96.94	96.28
65	1645	96.80	96.42	99.65	95.78	96.94	96.28
66	1700	96.92	96.58	99.57	95.86	97.02	96.32
67	1715	96.88	96.70	99.70	95.90	97.02	96.36
68	1730	96.88	96.58	99.81	95.90	97.06	96.36
69	1745	96.92	96.82	99.85	95.98	97.10	96.48
70	1800	97.08	96.90	99.93	95.98	97.13	96.44
71	1815	97.08	96.78	99.97	96.02	97.17	96.48
72	1830	97.04	96.90	100.01	96.06	97.21	96.52
73	1845	97.20	96.98	100.05	96.10	97.25	96.60
74	1900	97.12	96.94	100.09	96.14	97.29	96.60
75	1915	97.12	97.22	100.13	96.14	97.29	96.64
76	1930	97.20	96.94	100.13	96.14	97.29	96.60
77	1945	97.12	96.94	100.13	96.14	97.29	96.64
78	2000	97.24	97.02	100.13	96.14	97.29	96.60
79	2015	97.12	96.98	100.05	96.14	97.29	96.56
80	2030	97.08	96.90	100.09	96.10	97.25	96.56
81	2045	97.20	96.30	100.01	96.10	97.25	96.52
82	2100	97.12	96.54	100.05	96.06	97.25	96.56
83	2115	97.12	96.50	100.01	96.06	97.25	96.56
84	2130	97.12	96.66	99.97	96.06	97.25	96.52
85	2145	97.12	96.74	100.05	96.06	97.25	96.56
86	2200	97.08	96.30	100.01	96.06	97.25	96.52
87	2215	97.12	96.50	100.01	96.06	97.25	96.52
88	2230	97.16	96.66	100.01	96.06	97.25	96.56
89	2245	97.12	96.54	100.01	96.06	97.25	96.56
90	2300	97.12	96.46	100.01	96.06	97.25	96.52
91	2315	97.08	96.38	100.01	96.06	97.25	96.52
92	2330	97.08	96.50	99.97	96.06	97.25	96.52
93	2345	97.08	96.50	99.97	96.06	97.25	96.52
94	0	97.08	96.50	99.93	96.02	97.25	96.52
95	0015	97.04	96.54	99.97	96.02	97.21	96.48
96	0030	97.08	96.26	99.97	95.98	97.17	96.48
97	0045	97.08	96.30	99.89	95.98	97.17	96.44
98	0100	97.00	96.34	98.89	95.94	97.13	96.48
99	115	97.04	96.26	99.89	95.90	97.13	96.40
100	0130	97.08	96.22	99.89	95.90	97.13	96.36

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
101	0145	97.00	96.22	99.81	95.86	97.10	96.32
102	0200	96.88	96.22	99.81	95.86	97.06	96.32
103	215	96.92	96.03	99.81	95.82	97.02	96.32
104	230	96.84	96.03	99.77	95.78	96.98	96.28
105	245	96.88	95.99	99.73	95.74	96.98	96.20
106	300	96.80	96.06	99.69	95.74	96.94	96.24
107	315	96.80	96.10	99.73	95.70	96.98	96.20
108	330	96.88	96.22	99.73	95.70	96.94	96.20
109	345	96.84	95.99	99.69	95.70	96.94	96.20
110	400	96.92	96.03	99.73	95.70	96.94	96.16
111	415	96.80	96.03	99.69	95.66	96.90	96.20
112	430	96.76	96.10	99.69	95.66	96.90	96.19
113	445	96.80	95.79	99.69	95.66	96.86	96.16
114	500	96.76	95.87	99.69	95.66	96.90	96.20
115	515	96.84	95.95	99.69	95.62	96.86	96.12
116	0530	96.76	95.87	99.69	95.62	96.82	96.12
117	0545	96.68	95.91	99.65	95.58	96.82	96.12
118	600	96.68	95.83	99.65	95.58	96.82	96.04
119	615	96.68	95.79	99.69	95.54	96.78	96.04
120	630	96.68	95.87	99.69	95.50	96.78	96.06
121	645	96.64	95.83	99.69	95.50	96.74	95.96
122	0700	96.56	95.79	99.61	95.42	96.66	95.96
123	0715	96.60	95.71	99.57	95.46	96.66	95.96
124	0730	96.52	95.75	99.57	95.38	96.66	95.96
125	0745	96.52	95.95	99.49	95.38	96.66	95.92
126	0800	96.52	95.71	99.49	95.34	96.62	95.84
127	0815	96.48	95.95	99.45	95.30	96.58	95.88
128	0830	96.52	95.79	99.49	95.30	96.58	95.80
129	0845	96.48	95.63	99.45	95.30	96.54	95.84
130	0900	96.48	95.83	99.41	95.26	96.50	95.84
131	0915	96.44	96.26	99.37	95.34	96.54	95.84
132	0930	96.40	95.91	99.33	95.30	96.54	95.80
133	0945	96.48	95.91	99.37	95.26	96.54	95.80
134	1000	96.44	95.83	99.41	95.30	96.54	95.80
135	1015	96.44	95.83	99.37	95.30	96.54	95.84
136	1030	96.44	95.91	99.45	95.34	96.54	95.84
137	1045	96.48	95.83	99.41	95.34	96.54	95.84
138	1100	96.44	95.95	99.41	95.34	96.54	95.84
139	1115	96.44	95.79	99.41	95.34	96.58	95.84
140	1130	96.48	95.71	99.45	95.34	96.58	95.88
141	1145	96.40	95.79	99.37	95.38	96.58	95.84
142	1200	96.44	95.51	99.37	95.34	96.54	95.84
143	1215	96.40	95.63	99.37	95.34	96.58	95.84
144	1230	96.32	95.63	99.33	95.34	96.54	95.80
145	1245	96.36	95.67	99.25	95.30	96.54	95.84
146	1300	96.40	95.47	99.17	95.30	96.54	95.84
147	1315	96.36	95.71	99.13	95.26	96.50	95.77
148	1330	96.28	95.55	99.13	95.26	96.50	95.80
149	1345	96.32	95.83	99.13	95.22	96.46	95.77
150	1400	96.28	95.63	99.13	95.22	96.46	95.77

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
151	1415	96.32	95.79	99.17	95.26	96.46	95.80
152	1430	96.32	95.59	99.17	95.26	96.46	95.80
153	1445	96.36	95.67	99.13	95.26	96.50	95.80
154	1500	96.32	95.63	99.25	95.34	96.50	95.84
155	1515	96.44	95.99	99.21	95.38	96.54	95.84
156	1530	96.40	95.91	99.25	95.38	96.58	95.88
157	1545	96.40	95.79	99.33	95.38	96.58	95.84
158	1600	96.44	95.87	99.37	95.42	96.62	95.96
159	1615	96.48	95.95	99.29	95.46	96.62	95.96
160	1630	96.48	95.99	99.33	95.50	96.66	95.96
161	1645	96.40	95.99	99.37	95.50	96.66	95.92
162	1700	96.48	95.99	99.33	95.50	96.66	96.00
163	1715	96.48	95.99	99.33	95.50	96.66	96.00
164	1730	96.60	96.06	99.37	95.54	96.70	96.04
165	1745	96.60	96.18	99.41	95.58	96.74	96.04
166	1800	96.60	96.22	99.49	95.62	96.78	96.16
167	1815	96.60	96.14	99.49	95.66	96.82	96.16
168	1830	96.64	96.34	99.53	95.70	96.82	96.16
169	1845	96.64	96.50	99.61	95.70	96.86	96.20
170	1900	96.76	96.34	99.65	95.74	96.90	96.28
171	1915	96.72	96.46	99.65	95.78	96.94	96.24
172	1930	96.76	96.50	99.69	95.82	96.94	96.28
173	1945	96.80	96.18	99.65	95.78	96.94	96.28
174	2000	96.80	96.46	99.69	95.82	96.94	96.28
175	2015	96.76	96.58	99.69	95.82	96.94	96.32
176	2030	96.76	96.26	99.61	95.78	96.94	96.24
177	2045	96.80	96.22	99.57	95.74	96.94	96.24
178	2100	96.68	95.99	99.49	95.74	96.90	96.20
179	2115	96.64	96.26	99.53	95.70	96.90	96.20
180	2130	96.64	95.99	99.49	95.70	96.90	96.16
181	2145	96.64	95.99	99.45	95.66	96.86	96.16

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
1	0000	85.04	85.21	85.28	85.21	85.25	85.40
2	015	85.04	85.21	85.28	85.21	85.25	85.40
3	030	85.04	85.21	85.28	85.21	85.25	85.36
4	0045	85.04	85.21	85.28	85.21	85.25	85.36
5	100	85.04	85.21	85.28	85.21	85.25	85.36
6	0115	85.00	85.21	85.28	85.17	85.25	85.36
7	0130	85.04	85.21	85.28	85.21	85.25	85.36
8	145	85.04	85.21	85.28	85.17	85.25	85.36
9	200	85.00	85.21	85.28	85.17	85.25	85.36
10	215	85.00	85.21	85.28	85.17	85.25	85.36
11	230	85.04	85.21	85.28	85.17	85.25	85.36
12	245	85.04	85.21	85.24	85.17	85.25	85.36
13	300	85.00	85.21	85.24	85.17	85.21	85.36
14	315	85.00	85.21	85.24	85.17	85.25	85.36
15	325	85.00	85.21	85.24	85.17	85.21	85.36
16	0340	85.	85.21	85.28	85.17	85.25	85.36
17	400	85.	85.17	85.24	85.17	85.21	85.36
18	415	85.00	85.17	85.24	85.17	85.21	85.36
19	430	85.	85.17	85.24	85.17	85.21	85.36
20	445	85.00	85.17	85.24	85.17	85.21	85.36
21	500	85.00	85.21	85.24	85.17	85.21	85.36
22	515	85.00	85.17	85.24	85.17	85.21	85.36
23	530	85.00	85.17	85.24	85.17	85.21	85.36
24	545	85.00	85.17	85.24	85.17	85.21	85.36
25	600	85.00	85.21	85.24	85.17	85.21	85.36
26	615	85.00	85.17	85.24	85.17	85.25	85.36
27	630	85.00	85.17	85.24	85.17	85.21	85.32
28	645	85.00	85.17	85.24	85.17	85.21	85.32
29	0700	85.00	85.17	85.24	85.17	85.21	85.32
30	0715	85.00	85.17	85.24	85.17	85.21	85.32
31	0730	85.00	85.17	85.24	85.17	85.21	85.32
32	0745	85.00	85.17	85.24	85.17	85.21	85.32
33	0800	85.00	85.17	85.20	85.13	85.21	85.32
34	0815	85.00	85.17	85.24	85.17	85.21	85.22
35	0830	85.00	85.17	85.24	85.17	85.21	85.32
36	0845	85.00	85.17	85.24	85.17	85.21	85.32
37	0900	85.00	85.17	85.24	85.13	85.21	85.32
38	0915	85.00	85.17	85.24	85.17	85.21	85.32
39	0930	85.00	85.17	85.20	85.13	85.21	85.32
40	0945	85.00	85.17	85.24	85.13	85.21	85.32
41	1000	85.00	85.17	85.20	85.13	85.21	85.32
42	1015	85.00	85.17	85.24	85.17	85.21	85.32
43	1030	84.96	85.13	85.20	85.13	85.17	85.32
44	1045	84.96	85.17	85.20	85.13	85.21	85.32
45	1100	85.00	85.17	85.24	85.13	85.21	85.32
46	1115	85.00	85.17	85.24	85.13	85.17	85.32
47	1130	85.00	85.17	85.24	85.17	85.21	85.32
48	1230	85.00	85.17	85.24	85.13	85.21	85.32
49	1245	85.00	85.17	85.24	85.13	85.21	85.31
50	1300	85.00	85.17	85.20	85.13	85.21	85.32

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
51	1315	85.00	85.17	85.24	85.13	85.21	85.32
52	1330	85.00	85.17	85.24	85.13	85.21	85.32
53	1345	85.00	85.17	85.24	85.17	85.21	85.32
54	1400	85.00	85.17	85.24	85.13	85.21	85.32
55	1415	85.00	85.17	85.24	85.13	85.21	85.32
56	1430	85.00	85.17	85.24	85.13	85.21	85.32
57	1445	85.00	85.17	85.24	85.13	85.21	85.32
58	1500	85.00	85.17	85.24	85.17	85.21	85.32
59	1515	85.00	85.17	85.24	85.17	85.21	85.32
60	1530	85.00	85.17	85.24	85.13	85.21	85.32
61	1545	85.00	85.17	85.24	85.17	85.21	85.32
62	1600	85.00	85.17	85.24	85.17	85.21	85.32
63	1615	85.00	85.17	85.24	85.13	85.21	85.32
64	1630	85.00	85.17	85.24	85.17	85.21	85.32
65	1645	85.00	85.17	85.24	85.17	85.21	85.32
66	1700	85.00	85.17	85.24	85.13	85.21	85.32
67	1715	85.00	85.17	85.24	85.17	85.21	85.32
68	1730	85.00	85.17	85.24	85.17	85.21	85.32
69	1745	85.00	85.17	85.24	85.17	85.21	85.36
70	1800	85.00	85.17	85.24	85.17	85.21	85.32
71	1815	85.00	85.17	85.24	85.17	85.21	85.32
72	1830	85.00	85.17	85.24	85.17	85.21	85.32
73	1845	85.00	85.17	85.24	85.17	85.21	85.32
74	1900	85.00	85.17	85.24	85.17	85.21	85.36
75	1915	85.00	85.17	85.24	85.13	85.21	85.32
76	1930	85.00	85.17	85.24	85.13	85.21	85.32
77	1945	85.00	85.17	85.24	85.17	85.21	85.36
78	2000	85.00	85.21	85.24	85.17	85.21	85.36
79	2015	85.00	85.17	85.24	85.17	85.21	85.36
80	2030	85.00	85.17	85.24	85.17	85.21	85.32
81	2045	85.00	85.17	85.24	85.17	85.21	85.36
82	2100	85.00	85.17	85.24	85.17	85.21	85.36
83	2115	85.00	85.17	85.24	85.17	85.21	85.36
84	2130	85.00	85.17	85.24	85.17	85.21	85.36
85	2145	85.00	85.17	85.24	85.17	85.21	85.36
86	2200	85.00	85.17	85.24	85.17	85.21	85.36
87	2215	85.00	85.21	85.24	85.17	85.21	85.32
88	2230	85.00	85.17	85.24	85.17	85.21	85.36
89	2245	85.00	85.17	85.24	85.17	85.21	85.36
90	2300	85.00	85.17	85.24	85.13	85.21	85.32
91	2315	85.00	85.17	85.24	85.17	85.21	85.36
92	2330	85.00	85.17	85.24	85.17	85.21	85.36
93	2345	85.00	85.21	85.24	85.17	85.21	85.36
94	0	85.00	85.17	85.24	85.17	85.21	85.36
95	0015	85.00	85.17	85.20	85.13	85.21	85.32
96	0030	85.00	85.17	85.20	85.13	85.21	85.32
97	0045	85.00	85.17	85.24	85.17	85.21	85.32
98	0100	85.00	85.17	85.20	85.13	85.21	85.32
99	115	85.00	85.17	85.20	85.13	85.21	85.32
100	0130	85.00	85.17	85.20	85.13	85.21	85.32

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
101	0145	85.00	85.17	85.20	85.13	85.21	85.32
102	0200	85.00	85.17	85.20	85.13	85.21	85.32
103	215	85.00	85.17	85.20	85.13	85.21	85.32
104	230	85.00	85.17	85.20	85.17	85.21	85.36
105	245	85.00	85.17	85.20	85.17	85.21	85.36
106	300	85.00	85.17	85.20	85.17	85.21	85.36
107	315	85.00	85.17	85.20	85.17	85.21	85.36
108	330	85.00	85.17	85.20	85.17	85.21	85.32
109	345	85.00	85.17	85.20	85.17	85.21	85.32
110	400	85.00	85.17	85.20	85.17	85.21	85.36
111	415	85.00	85.17	85.20	85.17	85.21	85.36
112	430	85.00	85.17	85.20	85.17	85.21	85.36
113	445	85.00	85.17	85.20	85.17	85.21	85.36
114	500	85.00	85.17	85.20	85.17	85.21	85.36
115	515	85.00	85.17	85.20	85.17	85.21	85.32
116	0530	85	85.17	85.2	85.17	85.21	85.36
117	0545	85.00	85.17	85.20	85.17	85.21	85.36
118	600	85.00	85.17	85.20	85.17	85.21	85.32
119	615	85.00	85.17	85.20	85.17	85.25	85.36
120	630	85.00	85.17	85.20	85.17	85.21	85.36
121	645	85.00	85.17	85.20	85.17	85.21	85.36
122	0700	85	85.17	85.2	85.17	85.21	85.32
123	0715	85.00	85.17	85.24	85.17	85.21	85.36
124	0730	85.00	85.21	85.20	85.17	85.25	85.36
125	0745	85.00	85.21	85.20	85.17	85.21	85.36
126	0800	85.00	85.17	85.20	85.17	85.21	85.36
127	0815	85.00	85.17	85.20	85.17	85.25	85.86
128	0830	85.00	85.17	85.20	85.17	85.25	85.36
129	0845	85.00	85.21	85.20	85.17	85.25	85.36
130	0900	85.00	85.17	85.24	85.17	85.25	85.36
131	0915	85.00	85.21	85.24	85.17	85.25	85.36
132	0930	85.00	85.21	85.20	85.17	85.21	85.36
133	0945	85.00	85.17	85.20	85.17	85.21	85.36
134	1000	85.00	85.17	85.20	85.17	85.21	85.36
135	1015	85.00	85.17	85.20	85.17	85.21	85.36
136	1030	85.00	85.21	85.24	85.17	85.25	85.36
137	1045	85.00	85.17	85.20	85.17	85.21	85.36
138	1100	85.00	85.21	85.20	85.17	85.25	85.36
139	1115	85.04	85.21	85.24	85.17	85.25	85.36
140	1130	85.04	85.21	85.24	85.17	85.25	85.36
141	1145	85.04	85.17	85.20	85.17	85.25	85.36
142	1200	85.04	85.21	85.20	85.17	85.25	85.36
143	1215	85.04	85.21	85.24	85.17	85.25	85.36
144	1230	85.04	85.21	85.24	85.17	85.25	85.36
145	1245	85.04	85.21	85.24	85.17	85.25	85.36
146	1300	85.04	85.17	85.24	85.17	85.25	85.36
147	1315	85.04	85.21	85.24	85.17	85.25	85.36
148	1330	85.04	85.21	85.24	85.17	85.25	85.36
149	1345	85.04	85.21	85.24	85.17	85.25	85.36
150	1400	85.04	85.21	85.24	85.17	85.25	85.36

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
151	1415	85.04	85.21	85.24	85.17	85.25	85.36
152	1430	85.04	85.17	85.24	85.17	85.25	85.36
153	1445	85.04	85.21	85.24	85.17	85.25	85.36
154	1500	85.04	85.21	85.24	85.17	85.25	85.36
155	1515	85.04	85.21	85.24	85.21	85.25	85.36
156	1530	85.04	85.21	85.24	85.21	85.25	85.36
157	1545	85.04	85.21	85.24	85.21	85.25	85.40
158	1600	85.04	85.21	85.24	85.21	85.25	85.36
159	1615	85.04	85.17	85.24	85.17	85.25	85.36
160	1630	85.04	85.21	85.24	85.21	85.25	85.40
161	1645	85.04	85.21	85.24	85.21	85.25	85.36
162	1700	85.04	85.21	85.24	85.21	85.25	85.36
163	1715	85.04	85.21	85.24	85.17	85.25	85.36
164	1730	85.04	85.21	85.24	85.21	85.25	85.36
165	1745	85.04	85.21	85.24	85.21	85.25	85.36
166	1800	85.04	85.21	85.24	85.21	85.25	85.40
167	1815	85.04	85.21	85.24	85.21	85.25	85.40
168	1830	85.04	85.21	85.24	85.21	85.25	85.36
169	1845	85.04	85.21	85.24	85.21	85.25	85.36
170	1900	85.04	85.21	85.24	85.21	85.25	85.40
171	1915	85.04	85.21	85.24	85.21	85.25	85.40
172	1930	85.04	85.25	85.24	85.21	85.25	85.40
173	1945	85.04	85.21	85.28	85.21	85.25	85.40
174	2000	85.04	85.21	85.28	85.21	85.25	85.40
175	2015	85.04	85.21	85.24	85.21	85.25	85.40
176	2030	85.04	85.21	85.24	85.21	85.25	85.40
177	2045	85.04	85.21	85.24	85.21	85.25	85.40
178	2100	85.04	85.21	85.24	85.21	85.25	85.40
179	2115	85.04	85.21	85.28	85.21	85.25	85.40
180	2130	85.04	85.25	85.28	85.21	85.25	85.40
181	2145	85.04	85.25	85.28	85.21	85.25	85.40

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
1	0000	173.38	172.06	174.38	170.73	169.40	172.39
2	015	173.72	171.73	174.05	172.39	170.07	171.73
3	030	173.72	172.06	174.71	171.39	169.40	172.39
4	0045	173.38	172.06	174.71	171.06	169.40	172.39
5	100	173.38	172.39	173.38	171.39	169.74	172.72
6	0115	174.05	172.39	173.72	171.39	169.40	173.38
7	0130	173.72	171.73	174.05	172.72	169.74	172.39
8	145	173.38	171.73	174.71	172.06	169.40	172.39
9	200	174.05	172.06	173.38	171.39	169.07	172.39
10	215	173.38	172.39	173.72	172.06	169.74	173.05
11	230	175.04	173.72	172.39	165.09	173.38	166.42
12	245	174.05	173.05	174.05	172.39	170.73	172.72
13	300	174.05	172.39	173.72	171.73	168.74	172.72
14	315	174.38	172.06	174.71	171.73	169.40	173.05
15	325	173.38	172.39	175.37	172.39	170.73	171.06
16	0340	173.38	172.06	175.04	172.39	171.39	171.06
17	400	174.71	172.06	175.04	172.39	170.73	171.73
18	415	174.38	172.39	174.71	171.73	170.40	173.05
19	430	174.38	172.39	174.38	171.06	169.40	172.06
20	445	174.38	172.06	175.37	172.39	169.40	172.39
21	500	174.05	172.72	174.38	172.39	172.72	174.05
22	515	173.72	172.06	174.38	172.06	170.07	173.72
23	530	174.05	173.38	174.38	172.06	171.39	172.06
24	545	174.05	172.39	175.04	172.39	169.74	172.72
25	600	174.05	172.39	174.38	172.39	170.07	171.39
26	615	173.72	172.72	175.04	171.73	169.07	172.06
27	630	174.05	171.73	175.04	172.06	170.73	172.06
28	645	174.71	172.72	175.04	173.05	170.73	172.72
29	0700	175.04	172.72	175.04	171.39	170.40	172.39
30	0715	174.71	172.39	174.05	171.39	171.06	172.39
31	0730	174.38	172.39	175.04	171.73	170.73	172.06
32	0745	173.72	172.39	174.38	173.38	169.74	171.39
33	0800	174.38	172.72	174.05	172.39	171.06	172.72
34	0815	175.04	173.05	174.38	171.06	170.77	172.06
35	0830	174.71	172.39	175.04	172.06	170.07	172.39
36	0845	174.71	172.72	174.38	173.88	170.73	173.72
37	0900	174.71	172.72	175.04	171.39	170.73	173.05
38	0915	174.38	172.39	174.38	172.72	169.40	172.39
39	0930	175.04	172.72	174.38	172.06	170.40	174.05
40	0945	175.04	172.72	174.71	172.39	170.07	173.05
41	1000	175.04	172.39	174.05	172.06	170.40	173.05
42	1015	175.04	174.05	174.38	171.73	170.40	172.39
43	1030	175.04	172.39	173.72	172.39	171.39	173.72
44	1045	175.04	172.72	175.04	172.06	170.73	173.05
45	1100	175.04	172.72	174.71	172.39	172.06	174.05
46	1115	174.71	173.05	174.38	172.06	170.40	172.72
47	1130	174.71	172.39	175.04	172.39	170.40	173.05
48	1230	174.38	173.38	175.04	172.39	171.06	173.38
49	1245	174.71	173.05	175.04	173.05	171.3	172.39
50	1300	175.04	172.72	174.71	172.06	172.72	173.72

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
101	0145	176.37	173.72	175.37	174.05	172.39	174.38
102	0200	176.37	173.72	176.04	174.38	171.06	174.71
103	215	176.37	173.38	176.70	173.38	171.39	174.71
104	230	176.37	175.71	174.71	172.72	171.73	173.38
105	245	176.37	174.71	177.37	174.05	171.39	175.37
106	300	175.71	174.05	175.71	174.05	172.39	174.05
107	315	176.04	174.38	175.37	172.72	173.38	174.05
108	330	176.37	174.05	176.04	173.38	174.05	174.38
109	345	176.37	174.71	176.04	173.72	172.39	173.72
110	400	176.70	174.71	176.37	173.72	171.06	175.04
111	415	176.37	174.71	176.76	174.71	172.72	175.37
112	430	176.04	174.05	176.37	174.38	173.05	176.04
113	445	176.37	174.38	176.37	173.72	173.38	176.04
114	500	176.37	174.38	177.03	173.72	171.06	173.72
115	515	176.04	174.71	176.04	174.05	172.39	173.72
116	0530	176.7	175.04	177.37	174.05	172.39	175.04
117	0545	176.04	174.71	175.04	173.38	173.38	174.38
118	600	176.37	174.05	176.04	174.38	172.39	174.05
119	615	176.37	174.38	176.04	174.71	172.39	174.38
120	630	176.04	174.38	176.04	173.38	172.06	175.04
121	645	176.04	174.71	176.04	173.72	171.73	174.05
122	0700	175.71	174.71	175.71	173.38	171.73	174.05
123	0715	176.04	175.04	176.37	173.38	172.06	172.72
124	0730	176.37	175.04	176.37	173.72	172.72	175.37
125	0745	175.71	175.04	176.37	173.38	171.39	173.05
126	0800	176.04	175.04	175.37	173.72	174.05	173.05
127	0815	176.04	173.38	176.37	173.72	172.39	173.72
128	0830	176.04	174.38	176.37	174.05	172.39	174.71
129	0845	176.04	173.38	175.71	173.05	170.73	175.04
130	0900	176.37	174.71	175.71	173.72	171.73	174.71
131	0915	176.04	174.71	176.04	174.05	170.73	175.04
132	0930	176.04	174.05	176.37	174.05	173.38	174.38
133	0945	176.37	173.72	177.37	173.72	173.38	174.05
134	1000	176.37	174.05	176.04	173.38	172.72	174.05
135	1015	176.04	174.71	176.70	174.05	172.06	174.38
136	1030	176.04	174.71	175.71	174.05	173.38	175.04
137	1045	177.03	174.38	176.37	174.05	171.39	175.71
138	1100	176.37	174.38	177.03	173.72	171.39	175.04
139	1115	176.70	174.38	176.04	174.05	172.06	175.04
140	1130	176.70	174.38	176.37	173.72	173.05	175.04
141	1145	176.04	174.71	176.70	174.05	173.05	174.71
142	1200	176.04	174.38	175.71	173.72	172.39	174.05
143	1215	176.37	175.04	175.37	174.05	172.06	175.04
144	1230	177.03	174.38	175.37	174.38	172.39	174.71
145	1245	176.04	174.05	175.71	173.05	172.06	174.05
146	1300	176.70	174.71	176.37	174.71	172.72	174.38
147	1315	176.37	174.71	176.04	173.72	174.05	174.71
148	1330	176.37	174.71	176.04	173.38	172.39	174.71
149	1345	176.37	174.71	176.04	174.71	171.73	173.72
150	1400	176.70	175.71	176.70	172.72	172.06	173.72

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
51	1315	175.37	172.72	175.37	172.06	170.40	173.38
52	1330	174.71	173.38	175.37	171.73	171.06	173.72
53	1345	175.04	172.72	175.04	172.72	172.39	172.72
54	1400	175.37	173.72	175.71	173.38	171.39	172.39
55	1415	175.04	173.38	174.05	172.39	173.38	173.38
56	1430	175.37	173.05	175.04	173.38	172.39	173.05
57	1445	174.38	173.38	176.04	173.05	170.07	172.39
58	1500	175.71	173.38	175.37	173.05	172.39	172.72
59	1515	175.71	172.82	175.71	172.39	170.40	173.38
60	1530	175.71	173.05	176.04	172.39	171.06	174.05
61	1545	175.04	173.38	176.37	173.05	172.06	174.38
62	1600	174.71	173.72	175.04	173.38	170.40	173.05
63	1615	175.37	173.38	175.71	174.38	171.73	173.38
64	1630	175.04	173.38	175.71	172.72	170.40	174.05
65	1645	176.04	174.05	176.37	173.38	170.73	173.05
66	1700	175.7	173.72	175.37	173.05	171.73	173.38
67	1715	176.04	174.05	176.04	173.72	171.39	173.38
68	1730	175.37	173.72	176.04	172.72	171.73	172.39
69	1745	175.71	174.38	176.70	172.72	172.39	173.05
70	1800	175.37	173.72	177.03	173.38	171.39	174.05
71	1815	175.71	174.38	176.04	173.38	170.73	173.72
72	1830	176.37	174.05	176.04	173.88	171.39	173.38
73	1845	175.37	174.05	176.70	173.88	171.39	174.38
74	1900	175.71	174.05	177.37	174.05	171.39	173.38
75	1915	176.04	173.72	176.04	173.72	172.72	175.04
76	1930	175.71	174.38	176.04	173.72	171.73	173.72
77	1945	176.37	174.38	177.03	174.38	171.39	175.04
78	2000	175.04	174.38	176.70	174.05	171.39	174.71
79	2015	176.37	174.38	175.71	174.05	171.06	175.04
80	2030	176.04	173.72	176.37	173.38	171.39	175.71
81	2045	176.37	174.71	176.37	173.72	172.06	173.05
82	2100	176.70	174.05	177.03	174.05	172.72	174.71
83	2115	176.70	173.72	175.71	173.05	172.06	174.38
84	2130	175.71	174.05	176.37	174.71	172.39	174.38
85	2145	176.37	174.38	176.04	174.05	172.06	175.71
86	2200	176.04	175.04	175.71	173.38	173.05	175.04
87	2215	176.70	174.05	176.70	174.38	173.38	175.04
88	2230	176.04	175.04	176.37	174.05	172.06	174.38
89	2245	176.04	174.71	174.71	173.38	170.73	174.05
90	2300	176.04	174.05	174.71	174.38	170.73	175.04
91	2315	176.37	173.72	176.37	174.71	171.73	175.04
92	2330	176.04	174.05	176.37	173.72	172.39	173.38
93	2345	176.04	174.05	176.04	174.05	172.39	175.04
94	0	176.04	174.38	176.04	173.38	172.06	174.71
95	0015	176.04	174.71	175.71	173.38	173.38	174.05
96	0030	177.03	174.71	176.37	174.38	171.39	173.72
97	0045	176.37	174.38	176.04	174.71	173.38	174.71
98	0100	176.70	174.38	176.70	174.05	173.38	174.05
99	115	176.70	174.05	176.37	174.05	171.73	174.71
100	0130	176.37	174.05	175.37	174.38	172.39	174.05

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
151	1415	176.37	174.05	175.71	174.71	172.72	175.04
152	1430	176.70	174.05	176.37	173.72	173.72	173.72
153	1445	177.03	174.38	176.70	173.72	173.72	174.05
154	1500	176.37	174.38	175.71	174.05	173.38	174.71
155	1515	176.70	174.71	177.03	174.05	172.72	175.71
156	1530	176.70	174.71	175.37	173.38	173.72	175.04
157	1545	177.37	175.04	176.04	174.71	173.05	175.71
158	1600	177.37	175.71	176.04	174.71	172.72	175.04
159	1615	177.03	175.04	175.37	174.71	171.73	175.37
160	1630	177.03	175.04	176.70	174.71	174.05	175.37
161	1645	177.03	175.04	175.37	174.38	172.39	174.38
162	1700	176.70	174.71	176.04	174.71	171.39	174.38
163	1715	176.70	175.04	176.37	173.72	173.05	176.04
164	1730	177.03	175.04	176.37	174.71	173.72	174.05
165	1745	176.70	175.37	176.04	175.04	172.39	176.37
166	1800	176.70	175.71	177.70	174.38	173.05	175.04
167	1815	176.70	175.04	176.70	175.37	173.38	177.37
168	1830	176.04	175.37	176.70	175.37	172.72	175.04
169	1845	176.04	174.38	177.03	174.71	173.38	176.37
170	1900	176.37	175.04	177.03	175.04	172.72	177.03
171	1915	177.37	175.04	177.37	175.04	172.72	176.37
172	1930	177.03	174.71	176.70	175.37	172.72	174.05
173	1945	177.70	175.37	176.37	174.05	175.04	176.04
174	2000	177.37	175.37	177.70	175.71	173.72	175.04
175	2015	177.37	175.04	176.04	174.38	173.38	175.71
176	2030	177.03	175.37	177.37	174.38	172.72	175.37
177	2045	177.70	175.04	177.37	174.71	172.72	175.04
178	2100	177.03	175.37	176.70	174.71	173.88	174.71
179	2115	177.37	176.04	177.37	174.71	173.38	177.70
180	2130	177.37	175.04	177.03	174.71	173.72	174.38
181	2145	177.03	175.04	176.37	175.04	173.72	175.71

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
1	0000	164.43	166.75	167.08	165.42	63079	63086
2	015	166.75	166.75	167.08	165.76	63073	63080
3	030	165.42	166.75	167.41	165.42	63068	63076
4	0045	164.76	166.75	167.08	164.76	63064	63072
5	100	166.42	166.42	167.41	165.09	63061	63068
6	0115	164.76	166.75	167.41	165.76	63059	63066
7	0130	166.42	166.09	167.41	165.42	63054	63062
8	145	166.42	166.42	167.08	164.43	63050	63058
9	200	165.42	166.42	167.41	165.09	63045	63055
10	215	165.76	166.42	167.08	165.42	63040	63052
11	230	171.06	167.08	170.40	165.76	63036	63050
12	245	166.09	166.42	167.41	165.42	63033	63046
13	300	164.43	166.42	167.41	165.42	63028	63041
14	315	164.76	166.09	167.08	164.43	63025	63037
15	325	165.09	166.42	167.41	165.42	63022	63035
16	0340	165.09	166.42	167.08	165.09	63019	63031
17	400	164.10	166.09	167.08	165.42	63015	63027
18	415	164.76	166.42	167.41	165.42	63012	63023
19	430	165.42	166.75	167.08	164.76	63009	63019
20	445	164.10	166.75	167.41	164.76	63005	63015
21	500	164.43	166.42	167.08	165.42	63002	63011
22	515	164.43	166.09	167.41	165.42	63000	63009
23	530	164.10	166.42	167.08	165.76	62994	63005
24	545	163.77	166.09	167.41	164.76	62990	63000
25	600	166.42	166.42	166.75	164.76	62985	62996
26	615	165.09	166.75	167.08	165.09	62981	62992
27	630	166.75	166.75	167.75	164.43	62976	62986
28	645	165.76	166.09	167.41	165.76	62973	62983
29	0700	165.09	166.42	167.75	165.76	62968	62977
30	0715	165.42	165.76	167.08	165.42	62962	62971
31	0730	165.09	166.09	167.41	164.76	62959	62967
32	0745	164.10	166.42	167.08	165.09	62956	62964
33	0800	166.42	166.75	167.41	165.09	62953	62960
34	0815	163.77	166.09	166.75	165.42	62950	62956
35	0830	164.10	166.42	167.41	165.09	62947	62953
36	0845	166.42	166.09	167.41	165.42	62946	62950
37	0900	165.42	166.42	167.08	165.09	62941	62947
38	0915	163.77	166.09	167.08	164.76	62939	62944
39	0930	167.41	166.09	167.08	164.43	62936	62941
40	0945	163.77	166.42	167.41	165.09	62933	62938
41	1000	163.43	166.42	167.08	164.43	62931	62936
42	1015	165.09	166.09	167.08	164.10	62929	62933
43	1030	166.09	166.75	167.41	165.42	62926	62930
44	1045	164.43	165.76	164.08	164.76	62923	62927
45	1100	163.77	166.42	167.08	164.43	62919	62924
46	1115	165.42	166.09	167.08	164.76	62916	62921
47	1130	165.42	166.42	167.08	165.76	62914	62919
48	1230	173.88	165.76	166.75	164.76	62900	62906
49	1245	164.10	166.09	167.41	164.76	62898	62905
50	1300	165.42	165.76	167.08	164.10	62894	62902

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
101	0145	162.44	166.09	167.09	164.43	62758	62761
102	0200	164.10	165.76	167.08	165.09	62752	62755
103	215	164.10	166.09	167.08	165.09	62748	62754
104	230	164.76	165.76	167.41	165.42	62744	62746
105	245	163.43	165.76	167.41	164.43	62739	62742
106	300	164.43	165.76	166.75	164.76	62735	62739
107	315	163.77	166.09	167.41	164.43	62733	62736
108	330	166.42	166.09	167.41	165.09	62730	62733
109	345	165.09	166.42	166.42	164.43	62727	62730
110	400	163.77	166.42	167.08	165.42	62724	62726
111	415	164.43	166.42	166.75	164.43	62720	62722
112	430	165.42	165.76	166.75	164.43	62717	62719
113	445	165.76	166.42	167.08	165.09	62709	62712
114	500	163.77	165.76	166.75	165.76	62710	62714
115	515	165.76	165.76	167.08	165.09	62705	62709
116	0530	165.09	166.42	167.08	165.09	62701	62705
117	0545	164.76	166.42	166.75	165.42	62697	62701
118	600	163.43	166.09	167.75	165.09	62692	62697
119	615	166.09	163.76	167.41	164.43	62688	62693
120	630	164.76	166.09	167.08	164.76	62683	62689
121	645	164.43	165.76	166.42	165.42	62678	62683
122	0700	164.10	165.76	167.41	164.10	62674	62679
123	0715	164.76	166.09	167.08	164.76	62670	62675
124	0730	165.09	166.09	166.75	165.09	62667	62671
125	0745	165.09	166.09	167.08	165.76	62662	62666
126	0800	165.09	165.76	167.08	164.76	62659	62661
127	0815	164.43	165.76	167.08	165.09	62655	62657
128	0830	166.09	166.09	167.41	164.76	62652	62654
129	0845	164.76	165.76	167.08	165.42	62649	62650
130	0900	163.10	166.09	167.08	165.42	62645	62646
131	0915	165.42	166.42	167.08	164.76	62642	62642
132	0930	165.09	165.76	167.41	165.09	62640	62643
133	0945	164.43	166.09	167.41	165.42	62640	62639
134	1000	166.42	165.76	167.08	164.76	62635	62635
135	1015	165.09	165.76	167.08	165.76	62632	62631
136	1030	166.09	166.09	166.75	165.42	62630	62628
137	1045	164.43	165.76	167.08	164.76	62627	62625
138	1100	164.10	166.09	167.41	165.09	62624	62622
139	1115	166.42	166.09	167.08	165.42	62622	62619
140	1130	165.76	166.09	166.75	164.76	62619	62617
141	1145	166.42	166.09	167.41	165.42	62616	62614
142	1200	164.43	166.09	167.08	165.76	62614	62612
143	1215	165.42	166.09	167.08	165.09	62610	62607
144	1230	166.42	166.09	166.75	165.42	62606	62603
145	1245	164.43	165.42	166.09	163.43	62603	62600
146	1300	164.76	166.09	167.08	164.76	62600	62595
147	1315	165.09	166.09	166.42	164.43	62596	62591
148	1330	165.09	165.76	167.08	164.10	62592	62587
149	1345	165.76	166.09	166.75	164.43	62588	62584
150	1400	164.10	166.09	166.75	165.42	62585	62581

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
51	1315	165.76	165.76	167.08	165.09	62892	62901
52	1330	165.42	166.09	166.75	165.09	62891	62900
53	1345	165.76	166.42	167.08	165.04	62887	62897
54	1400	165.42	166.09	167.08	165.09	62886	62895
55	1415	165.09	166.09	167.08	165.09	62886	62894
56	1430	166.42	166.09	166.75	164.43	62886	62894
57	1445	164.43	166.42	167.08	165.42	62886	62893
58	1500	163.43	165.76	167.08	164.63	62885	62892
59	1515	165.09	165.76	166.09	165.42	62884	62889
60	1530	164.43	166.09	167.75	164.43	62882	62887
61	1545	165.76	166.09	167.08	164.76	62880	62885
62	1600	163.77	166.09	167.08	163.77	62877	62882
63	1615	167.75	166.09	167.41	165.42	62874	62879
64	1630	164.76	166.09	167.08	165.42	62874	62877
65	1645	164.43	166.09	167.08	164.43	62873	62877
66	1700	164.43	165.76	167.08	165.09	62870	62875
67	1715	165.76	166.09	167.08	165.09	62869	62874
68	1730	165.42	166.09	167.08	165.42	62867	62872
69	1745	166.75	166.09	167.08	164.76	62865	62872
70	1800	164.76	166.75	167.08	164.43	62865	62872
71	1815	167.08	166.42	167.08	165.42	62863	62870
72	1830	164.43	166.42	166.75	164.43	62862	62870
73	1845	165.76	166.42	167.75	165.42	62860	62868
74	1900	166.09	166.42	167.41	164.43	62858	62866
75	1915	165.42	166.42	167.41	165.42	62855	62864
76	1930	165.76	166.09	167.41	165.76	62852	62860
77	1945	164.76	166.09	167.41	165.76	62849	62857
78	2000	165.09	166.09	167.08	165.76	62844	62852
79	2015	164.43	166.09	167.08	165.09	62840	62848
80	2030	164.10	165.76	167.41	165.76	62836	62844
81	2045	164.43	166.09	167.08	164.76	62832	62840
82	2100	164.43	166.09	166.75	164.76	62828	62836
83	2115	165.42	166.42	167.08	165.09	62825	62833
84	2130	164.76	166.09	167.08	164.10	62822	62830
85	2145	164.43	165.76	166.75	165.42	62819	62827
86	2200	163.43	165.76	167.08	164.43	62815	62823
87	2215	163.43	165.76	166.75	164.43	62812	62820
88	2230	164.76	166.09	167.08	165.09	62809	62817
89	2245	165.42	166.09	167.08	164.43	62806	62814
90	2300	165.42	166.09	167.08	164.76	62802	62809
91	2315	165.76	166.09	166.75	165.42	62799	62805
92	2330	166.75	166.09	167.08	164.76	62796	62802
93	2345	164.10	166.09	167.08	164.76	62792	62798
94	0	163.43	166.09	167.41	165.42	62789	62794
95	0015	164.76	165.76	167.08	165.09	62785	62789
96	0030	165.76	166.09	166.09	165.09	62781	62785
97	0045	166.42	166.09	167.08	165.42	62777	62781
98	0100	165.42	166.42	166.75	165.09	62774	62778
99	115	164.76	166.09	166.75	165.76	62768	62774
100	0130	163.43	166.42	167.41	165.42	62765	62768

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
151	1415	165.09	165.76	166.75	164.43	62583	62579
152	1430	163.43	166.09	167.08	163.77	62582	62577
153	1445	163.10	165.76	167.08	165.09	62581	62572
154	1500	165.42	165.76	167.08	164.10	62581	62572
155	1515	163.43	166.09	166.75	165.09	62580	62571
156	1530	165.42	175.04	167.08	164.76	62579	62575
157	1545	165.09	166.09	166.75	164.76	62577	62574
158	1600	164.76	166.09	167.08	165.09	62577	62573
159	1615	164.10	165.76	166.75	165.09	62576	62572
160	1630	164.43	165.42	167.08	165.09	62575	62570
161	1645	164.10	165.76	167.08	165.09	62567	62570
162	1700	165.76	165.76	167.08	165.42	62568	62565
163	1715	164.43	165.76	167.41	165.42	62567	62563
164	1730	163.77	166.42	167.08	164.43	62567	62563
165	1745	164.10	166.09	167.08	164.76	62567	62563
166	1800	166.09	166.09	167.08	165.76	62567	62563
167	1815	167.41	166.42	167.08	164.76	62567	62563
168	1830	165.09	165.76	167.08	164.43	62566	62563
169	1845	163.10	165.76	167.41	165.42	62565	62561
170	1900	164.43	165.76	167.08	165.09	62564	62561
171	1915	165.42	165.76	167.41	164.76	62563	62560
172	1930	163.77	166.42	166.75	165.09	62560	62558
173	1945	166.42	166.75	167.41	165.09	62558	62556
174	2000	166.42	166.42	167.08	164.10	62555	62553
175	2015	164.10	166.09	166.75	164.43	62553	62550
176	2030	165.09	165.42	167.08	165.42	62550	62546
177	2045	164.43	165.76	167.41	164.10	62546	62542
178	2100	164.10	166.42	167.08	164.10	62542	62538
179	2115	165.76	166.09	166.75	164.43	62539	62534
180	2130	163.43	165.76	167.08	164.76	62535	62530
181	2145	164.10	166.09	166.09	164.43	62532	62527

REC #	TIME	TPAV	VPAV	PRAV	MASS
1	0	92.575	.574	63.077	90111.1
2	15	92.547	.577	63.071	90101.8
3	30	92.488	.576	63.067	90106.7
4	45	92.534	.574	63.063	90096.8
5	100	92.525	.578	63.059	90087.9
6	115	92.523	.579	63.057	90084
7	130	92.537	.578	63.053	90076.4
8	145	92.517	.576	63.049	90077
9	200	92.507	.574	63.045	90074.4
10	215	92.5	.578	63.041	90064.4
11	230	92.509	.575	63.038	90063.1
12	245	92.484	.581	63.034	90053.5
13	300	92.474	.575	63.029	90057.3
14	315	92.45	.576	63.026	90054.6
15	325	92.44	.575	63.023	90053.3
16	340	92.472	.575	63.02	90043
17	400	92.444	.576	63.016	90041.3
18	415	92.455	.58	63.012	90028.7
19	430	92.447	.574	63.009	90032.4
20	445	92.428	.575	63.005	90028.2
21	500	92.43	.586	63.001	90007.7
22	515	92.44	.579	62.999	90012.4
23	530	92.411	.578	62.994	90011.8
24	545	92.407	.576	62.99	90009.8
25	600	92.4	.575	62.985	90005.5
26	615	92.407	.574	62.981	89999.4
27	630	92.375	.579	62.976	89989.5
28	645	92.355	.582	62.973	89984.6
29	700	92.344	.579	62.967	89981.9
30	715	92.323	.578	62.961	89978.7
31	730	92.32	.577	62.958	89976.1
32	745	92.32	.573	62.955	89977.4
33	800	92.313	.582	62.951	89960.2
34	815	92.305	.575	62.948	89966.2
35	830	92.306	.577	62.945	89959.9
36	845	92.309	.585	62.943	89944.2
37	900	92.312	.58	62.939	89944.7
38	915	92.308	.574	62.936	89951.4
39	930	92.314	.584	62.933	89930.9
40	945	92.326	.578	62.93	89932.8
41	1000	92.316	.577	62.928	89934.2
42	1015	92.343	.577	62.926	89925.8
43	1030	92.324	.585	62.923	89912.3
44	1045	92.345	.575	62.92	89919.3
45	1100	92.356	.584	62.916	89900.4
46	1115	92.352	.578	62.913	89904.2
47	1130	92.373	.581	62.911	89894
48	1230	92.374	.592	62.898	89859.3
49	1245	92.383	.579	62.896	89873.6
50	1300	92.377	.584	62.893	89861.9

REC #	TIME	TPAV	VPAV	PRAV	MASS
51	1315	92.402	.581	62.891	89860.1
52	1330	92.427	.583	62.89	89852.4
53	1345	92.448	.584	62.887	89842.6
54	1400	92.458	.582	62.885	89841.4
55	1415	92.483	.586	62.885	89830.8
56	1430	92.492	.585	62.885	89830.9
57	1445	92.527	.578	62.884	89833.9
58	1500	92.558	.581	62.883	89823.5
59	1515	92.577	.58	62.881	89818.5
60	1530	92.565	.584	62.879	89812
61	1545	92.588	.588	62.877	89799.3
62	1600	92.596	.578	62.874	89809
63	1615	92.596	.59	62.871	89788
64	1630	92.622	.584	62.87	89790.6
65	1645	92.629	.582	62.87	89791.5
66	1700	92.657	.584	62.867	89780.7
67	1715	92.688	.586	62.866	89770.4
68	1730	92.701	.583	62.864	89770.5
69	1745	92.741	.587	62.863	89755.7
70	1800	92.774	.587	62.863	89751.7
71	1815	92.769	.588	62.861	89747.4
72	1830	92.798	.584	62.861	89747.5
73	1845	92.826	.591	62.859	89730.9
74	1900	92.838	.587	62.857	89730.9
75	1915	92.854	.594	62.854	89715.2
76	1930	92.841	.589	62.851	89719.4
77	1945	92.848	.592	62.848	89709
78	2000	92.858	.59	62.843	89703.5
79	2015	92.813	.589	62.839	89706.1
80	2030	92.824	.591	62.835	89695.5
81	2045	92.891	.585	62.831	89687.6
82	2100	92.798	.591	62.827	89688.6
83	2115	92.804	.59	62.824	89685.2
84	2130	92.802	.589	62.821	89682.2
85	2145	92.818	.593	62.818	89670.1
86	2200	92.786	.59	62.814	89673.2
87	2215	92.799	.591	62.811	89665
88	2230	92.809	.59	62.808	89661
89	2245	92.807	.585	62.805	89663.9
90	2300	92.791	.589	62.8	89655
91	2315	92.794	.592	62.797	89644.2
92	2330	92.79	.589	62.794	89645.5
93	2345	92.793	.591	62.79	89636.8
94	0	92.782	.589	62.786	89635.6
95	15	92.763	.59	62.782	89630.9
96	30	92.748	.588	62.778	89631
97	45	92.749	.596	62.774	89613.4
98	100	92.675	.592	62.771	89625.9
99	115	92.72	.591	62.766	89614
100	130	92.714	.589	62.761	89611.2

REC #	TIME	TPAV	VPAV	PRAV	MASS
101	145	92.689	.586	62.754	89608.9
102	200	92.676	.588	62.748	89600.4
103	215	92.661	.588	62.746	89598.6
104	230	92.647	.586	62.74	89595.2
105	245	92.635	.59	62.735	89584.8
106	300	92.627	.587	62.732	89585.4
107	315	92.629	.588	62.729	89579.7
108	330	92.625	.595	62.726	89566.2
109	345	92.612	.588	62.723	89574.7
110	400	92.616	.59	62.72	89565.8
111	415	92.598	.594	62.716	89557.4
112	430	92.6	.595	62.713	89550.1
113	445	92.576	.598	62.705	89539.1
114	500	92.587	.585	62.707	89558.3
115	515	92.576	.589	62.702	89547.2
116	530	92.566	.594	62.698	89535.8
117	545	92.557	.592	62.694	89535.4
118	600	92.54	.589	62.689	89535.6
119	615	92.537	.592	62.685	89526.3
120	630	92.531	.591	62.681	89522.3
121	645	92.519	.587	62.675	89521.7
122	700	92.486	.585	62.671	89523.3
123	715	92.49	.585	62.667	89518.1
124	730	92.488	.594	62.664	89499.7
125	745	92.47	.586	62.659	89507.5
126	800	92.455	.589	62.655	89499.5
127	815	92.468	.587	62.651	89494.6
128	830	92.444	.593	62.648	89485.5
129	845	92.434	.588	62.644	89489.7
130	900	92.427	.588	62.64	89483.8
131	915	92.453	.59	62.637	89472.1
132	930	92.41	.592	62.636	89475.3
133	945	92.418	.592	62.634	89472.1
134	1000	92.422	.59	62.63	89466.5
135	1015	92.417	.591	62.626	89461.7
136	1030	92.444	.595	62.624	89447.2
137	1045	92.426	.592	62.621	89451
138	1100	92.428	.59	62.617	89448.4
139	1115	92.432	.594	62.615	89438.6
140	1130	92.437	.594	62.613	89434.6
141	1145	92.427	.595	62.61	89429.6
142	1200	92.41	.589	62.608	89438.6
143	1215	92.417	.592	62.603	89426.2
144	1230	92.399	.594	62.599	89421.7
145	1245	92.395	.583	62.596	89433
146	1300	92.379	.592	62.592	89417.7
147	1315	92.375	.593	62.588	89410.5
148	1330	92.363	.59	62.584	89411.3
149	1345	92.366	.588	62.58	89408.5
150	1400	92.356	.588	62.578	89406.4

REC #	TIME	TPAV	VPAV	PRAV	MASS
151	1415	92.373	.592	62.575	89394.6
152	1430	92.355	.588	62.574	89401.2
153	1445	92.369	.59	62.571	89391.3
154	1500	92.387	.592	62.571	89385.3
155	1515	92.423	.594	62.57	89375.8
156	1530	92.429	.606	62.571	89359.6
157	1545	92.428	.596	62.57	89371.1
158	1600	92.454	.595	62.57	89368.6
159	1615	92.449	.591	62.569	89372.7
160	1630	92.477	.597	62.567	89358.5
161	1645	92.472	.59	62.563	89363.3
162	1700	92.474	.591	62.561	89359.1
163	1715	92.474	.597	62.56	89347.9
164	1730	92.502	.592	62.56	89350.7
165	1745	92.522	.596	62.56	89340.7
166	1800	92.548	.598	62.56	89334.5
167	1815	92.557	.606	62.56	89321.4
168	1830	92.574	.594	62.559	89335.6
169	1845	92.595	.597	62.558	89325.1
170	1900	92.614	.599	62.557	89317.8
171	1915	92.628	.599	62.556	89314
172	1930	92.642	.591	62.554	89320.8
173	1945	92.621	.605	62.552	89301.1
174	2000	92.648	.599	62.549	89300.6
175	2015	92.656	.595	62.546	89301.2
176	2030	92.614	.596	62.542	89302.5
177	2045	92.61	.594	62.539	89300.1
178	2100	92.574	.594	62.535	89299.4
179	2115	92.589	.605	62.531	89277
180	2130	92.567	.592	62.527	89292.3
181	2145	92.554	.596	62.524	89285.6

JULY 11, 1982 (2200) - JULY 12, 1982 (1830)

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
1	2200	97.56	98.24	106.77	105.56	100.24	101.41
2	2215	97.60	98.24	106.77	105.56	100.24	101.41
3	2230	97.64	98.20	106.77	105.60	100.36	101.41
4	2245	97.60	98.20	106.77	105.60	100.32	101.41
5	2300	97.56	98.20	106.77	105.48	100.28	101.37
6	2315	97.52	98.16	106.77	105.56	100.20	101.37
7	2330	97.48	98.16	106.77	105.52	100.28	101.37
8	2345	97.88	98.50	106.77	105.72	100.36	101.61
9	015	97.84	98.56	106.77	105.64	100.32	101.53
10	030	97.72	98.24	106.77	105.52	100.28	101.41
11	045	97.56	98.16	106.77	105.44	100.20	101.33
12	0100	97.52	98.12	106.77	105.48	100.16	101.29
13	115	97.52	98.08	106.77	105.36	100.24	101.25
14	0130	97.40	98.08	106.77	105.36	100.20	101.25
15	145	97.48	98.00	106.77	105.32	100.16	101.25
16	200	97.40	97.96	106.77	105.32	100.20	101.21
17	215	97.36	97.92	106.77	105.28	100.12	101.17
18	230	97.32	97.92	106.77	105.24	100.04	101.13
19	245	97.28	97.84	106.77	105.16	100.08	101.09
20	300	97.24	97.80	106.77	105.16	100.04	101.09
21	0315	97.24	97.80	106.77	105.16	100.00	101.05
22	0330	97.16	97.76	106.77	105.16	100.04	101.05
23	0345	97.16	97.72	106.77	105.12	99.96	101.01
24	0400	97.12	96.78	106.77	105.08	100.04	101.01
25	0415	97.08	97.68	106.77	105.04	100.	101.01
26	0430	97.	97.64	106.77	105.04	99.92	100.97
27	0445	97.04	97.64	106.77	105.	99.88	100.97
28	500	97.08	97.6	106.77	105.	100.04	101.17
29	515	97.	97.56	106.77	105.2	100.12	101.33
30	530	97.	97.52	106.77	104.96	100.	101.01
31	545	96.92	97.52	106.77	104.96	99.96	100.97
32	600	96.92	97.52	106.77	104.96	99.88	100.93
33	0615	96.92	96.48	106.77	104.88	99.88	100.89
34	0630	96.92	97.48	106.77	104.88	99.88	100.89
35	0645	96.84	97.44	106.77	104.88	99.92	100.85
36	0700	96.80	97.36	106.77	104.84	99.76	100.81
37	0715	96.80	97.32	106.77	104.80	99.72	100.81
38	0730	96.76	97.32	106.77	104.80	99.84	100.77
39	0745	96.72	97.28	106.77	104.80	99.80	100.77
40	0800	96.72	97.24	106.77	104.68	99.72	100.73
41	0815	96.68	97.20	106.77	104.64	99.72	100.69
42	0830	96.60	97.20	106.77	104.64	99.56	100.69
43	0845	96.60	97.12	106	104.64	99.64	100.65
44	0900	96.60	97.16	106.77	104.60	99.72	100.65
45	0915	96.52	97.12	106.77	104.60	99.56	100.65
46	0930	96.52	97.12	106.77	104.56	99.56	100.61
47	0945	96.52	97.12	106.77	104.56	99.60	100.61
48	1000	96.52	97.12	106.77	104.48	99.60	100.61
49	1015	96.48	97.12	106.77	104.48	99.56	100.61
50	1030	96.52	97.12	106.77	104.56	99.52	100.57

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
51	1045	96.48	97.12	106.77	104.48	99.56	100.61
52	1100	96.48	97.08	106.77	104.52	99.64	100.57
53	1115	96.52	97.08	106.77	104.48	99.56	100.61
54	1130	96.52	97.12	106.77	104.52	99.64	100.57
55	1145	96.52	97.04	106.77	104.40	99.60	100.53
56	1200	96.44	97.08	106.77	104.40	99.56	100.53
57	1215	96.44	97.04	106.77	104.44	99.48	100.53
58	1230	96.48	97.08	106.77	104.40	99.52	100.53
59	1245	96.48	97.08	106.77	104.48	99.40	100.49
60	1300	96.44	97.08	106.77	104.40	99.48	100.49
61	1315	96.48	97.04	106.77	104.36	99.52	100.49
62	1330	96.44	97.08	106.77	104.36	99.52	100.49
63	1345	96.40	97.04	106.77	104.32	99.44	100.49
64	1400	96.44	97.04	106.77	104.36	99.36	100.49
65	1415	96.48	97.04	106.77	104.36	99.52	100.49
66	1430	96.40	97.04	106.77	104.36	99.44	100.49
67	1445	96.48	97.04	104.84	104.40	99.40	100.49
68	1500	96.44	97.08	104.84	104.36	99.44	100.49
69	1515	96.48	97.12	104.84	104.36	99.40	100.49
70	1530	96.48	97.12	104.84	104.40	99.60	100.49
71	1545	96.52	97.16	104.84	104.40	99.44	100.53
72	1600	96.56	97.16	104.84	104.40	99.48	100.53
73	1615	96.56	97.16	104.84	104.44	99.44	100.53
74	1630	96.56	97.20	104.84	104.40	99.52	100.57
75	1645	96.60	97.20	104.84	104.44	99.52	100.57
76	1700	96.56	97.20	104.84	104.48	99.52	100.61
77	1715	96.60	97.24	104.84	104.48	99.56	100.61
78	1730	96.60	97.28	104.84	104.52	99.64	100.57
79	1745	96.64	97.28	104.88	104.48	99.52	100.57
80	1800	96.64	97.28	104.84	104.52	99.52	100.61
81	1815	96.68	97.32	104.82	104.52	99.60	100.61

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
1	2200	97.54	99.09	98.46	98.83	97.66	96.402
2	2215	97.54	99.09	98.46	98.79	97.82	96.441
3	2230	97.50	99.09	98.34	98.87	97.70	96.402
4	2245	97.38	99.09	98.50	98.87	97.66	96.402
5	2300	97.06	99.09	98.42	98.75	97.66	96.402
6	2315	97.26	99.09	98.42	98.87	97.78	96.362
7	2330	97.30	99.05	98.38	98.83	97.66	96.402
8	2345	97.82	99.41	98.70	99.67	98.10	96.682
9	015	97.58	99.37	98.66	99.07	97.98	96.762
10	030	97.46	99.17	98.46	98.91	97.78	96.521
11	045	97.34	99.05	98.38	98.83	97.70	96.441
12	0100	97.26	99.05	98.42	98.79	97.66	96.441
13	115	97.22	99.01	98.38	98.79	97.58	96.362
14	0130	97.18	99.05	98.42	98.79	97.62	96.362
15	145	97.18	98.97	98.30	98.75	97.54	96.322
16	200	97.14	98.93	98.26	98.67	97.54	96.282
17	215	97.10	98.93	98.22	98.63	97.50	96.242
18	230	97.14	98.85	98.26	98.63	97.50	96.242
19	245	97.10	98.85	98.14	98.59	97.50	96.162
20	300	97.10	98.85	98.18	98.59	97.46	96.162
21	0315	97.10	98.85	98.10	98.51	97.38	96.12
22	0330	96.90	98.82	98.14	98.55	97.34	96.12
23	0345	96.86	98.78	98.14	98.51	97.34	96.08
24	0400	96.90	98.78	98.06	98.47	97.34	96.08
25	0415	96.98	98.74	98.06	98.51	97.34	96.08
26	0430	97.02	98.74	98.06	98.51	97.30	96.002
27	0445	96.9	98.74	98.1	98.47	97.3	96.
28	500	97.06	98.74	98.06	98.43	97.18	96
29	515	96.9	98.85	98.22	98.55	97.34	96.002
30	530	96.9	98.74	98.06	98.47	97.26	95.96
31	545	96.82	98.7	98.02	98.39	97.18	95.96
32	600	96.82	98.70	97.98	98.39	97.26	95.96
33	0615	96.62	98.66	97.98	98.35	97.26	95.962
34	0630	96.78	98.62	97.98	98.43	97.22	95.962
35	0645	96.78	98.62	97.94	98.31	97.18	95.92
36	0700	96.74	98.62	97.9	98.31	97.1	95.882
37	0715	96.90	98.58	97.86	98.23	97.10	95.842
38	0730	96.66	98.54	97.82	98.27	97.02	95.802
39	0745	96.54	98.54	97.86	98.23	97.10	95.802
40	0800	96.58	98.50	97.78	98.23	96.98	95.762
41	0815	96.42	98.50	97.74	98.19	97.02	95.762
42	0830	96.54	98.46	97.78	98.15	96.98	95.722
43	0845	96.54	98.42	97.78	98.11	96.98	95.682
44	0900	96.42	98.42	97.66	98.07	96.98	95.642
45	0915	96.50	98.	97.78	98.15	96.98	95.642
46	0930	96.34	98.38	97.70	98.07	96.90	95.642
47	0945	96.62	98.38	97.70	98.07	96.90	95.642
48	1000	96.30	98.38	97.70	98.11	96.98	95.642
49	1015	96.34	98.38	97.70	98.11	96.86	95.64
50	1030	96.50	98.34	97.74	98.07	96.94	95.64

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
51	1045	96.54	98.34	97.66	98.07	96.94	95.64
52	1100	96.42	98.38	97.70	98.07	96.86	95.642
53	1115	96.46	98.38	97.70	98.07	96.82	95.642
54	1130	96.42	98.38	97.62	98.07	96.82	95.602
55	1145	96.34	98.34	97.70	98.03	96.86	95.642
56	1200	96.42	98.30	97.66	98.03	96.86	95.602
57	1215	96.22	98.30	97.66	97.99	96.82	95.602
58	1230	96.58	98.30	97.66	98.03	96.86	95.602
59	1245	96.54	98.30	97.62	98.03	96.82	95.602
60	1300	96.50	98.30	97.58	97.95	96.86	95.602
61	1315	96.46	98.30	97.58	98.03	96.90	95.602
62	1330	96.38	98.30	97.58	97.99	96.82	95.602
63	1345	96.58	98.30	97.58	97.95	96.78	95.602
64	1400	96.26	98.26	97.58	97.99	96.78	95.562
65	1415	96.38	98.30	97.58	97.99	96.82	95.521
66	1430	96.34	98.26	97.58	97.95	96.78	95.562
67	1445	96.38	98.30	97.62	98.03	96.82	95.602
68	1500	96.54	98.26	97.58	97.95	96.78	95.602
69	1515	96.54	98.26	97.62	97.95	96.82	95.602
70	1530	96.54	98.26	97.62	98.03	96.78	95.642
71	1545	96.50	98.30	97.62	98.03	96.82	95.642
72	1600	96.70	98.30	97.70	97.99	96.36	95.642
73	1615	96.54	98.34	97.70	98.07	96.86	95.642
74	1630	96.70	98.34	97.70	98.03	96.90	95.982
75	1645	96.58	98.38	97.74	98.07	96.90	95.682
76	1700	96.70	98.38	97.78	98.11	96.94	95.722
77	1715	96.66	98.38	97.78	98.11	96.94	95.722
78	1730	96.62	98.38	97.70	98.11	96.94	95.722
79	1745	96.70	98.42	97.74	98.19	96.98	95.762
80	1800	96.70	98.42	97.78	98.07	96.94	95.762
81	1815	96.82	98.42	97.74	98.11	96.98	95.762

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
1	2200	96.60	95.95	99.49	95.66	96.86	96.12
2	2215	96.60	96.03	99.53	95.66	96.86	96.16
3	2230	96.64	95.95	99.53	95.66	96.86	96.16
4	2245	96.64	95.95	99.57	95.66	96.82	96.12
5	2300	96.64	95.83	99.65	95.66	96.86	96.12
6	2315	96.60	95.79	99.69	95.62	96.82	96.12
7	2330	96.64	95.91	99.65	95.66	96.82	96.12
8	2345	96.88	96.03	99.85	95.90	97.13	96.44
9	015	97.76	95.99	99.85	95.90	97.13	96.36
10	030	96.60	95.95	99.57	95.74	96.94	96.24
11	045	96.60	95.83	99.53	95.66	96.86	96.16
12	0100	96.52	95.91	99.53	95.66	96.82	96.12
13	115	96.52	95.91	99.45	95.58	96.78	96.08
14	0130	96.52	95.	99.45	95.58	96.78	96.04
15	145	96.48	95.75	99.41	95.54	96.74	96.04
16	200	96.56	95.67	99.37	95.50	96.70	95.96
17	215	96.48	95.63	99.37	95.46	96.66	95.96
18	230	96.40	95.59	99.33	95.42	96.62	95.88
19	245	96.44	95.55	99.33	95.38	96.62	95.84
20	300	96.40	95.55	99.29	95.34	96.58	95.84
21	0315	96.28	95.51	99.25	95.34	96.54	95.84
22	0330	96.28	95.47	99.21	95.30	96.50	95.80
23	0345	96.28	95.31	99.33	95.26	96.50	95.80
24	0400	96.38	95.42	99.33	95.26	96.46	95.77
25	0415	96.2	95.43	99.37	95.26	96.46	95.77
26	0430	96.28	95.47	99.33	95.22	96.46	95.73
27	0445	96.2	95.39	99.25	95.22	96.42	95.73
28	500	96.2	95.43	99.21	95.22	96.46	95.73
29	515	96.24	95.51	99.25	95.22	96.42	95.73
30	530	96.24	95.43	99.17	95.18	96.38	95.69
31	545	96.16	95.31	99.09	95.18	96.34	95.65
32	600	96.12	95.35	99.09	95.14	96.34	95.61
33	0615	96.16	95.31	99.13	95.10	96.30	95.61
34	0630	96.12	95.27	99.09	95.10	96.34	95.61
35	0645	96.08	95.35	99.09	95.10	96.30	95.61
36	0700	96.08	95.31	99.01	95.07	96.26	95.57
37	0715	96.04	95.31	99.01	95.03	96.26	95.53
38	0730	96.00	95.07	98.89	94.99	96.18	95.33
39	0745	95.96	95.07	98.97	94.99	96.22	95.53
40	0800	95.96	95.11	98.93	94.95	96.18	95.49
41	0815	95.88	94.95	98.89	94.91	96.10	95.41
42	0830	95.88	95.11	98.99	94.87	96.10	95.37
43	0845	95.84	95.11	98.82	94.87	96.06	95.33
44	0900	95.88	94.99	98.85	94.87	96.02	95.37
45	0915	95.84	95.11	98.82	94.83	96.02	95.33
46	0930	95.80	95.03	98.78	94.79	96.02	95.33
47	0945	95.80	94.99	98.78	94.79	96.02	95.33
48	1000	95.84	95.19	98.82	94.79	95.98	95.33
49	1015	95.80	95.07	98.82	94.83	96.02	95.33
50	1030	95.84	95.15	98.74	94.79	95.98	95.33

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
51	1045	95.80	95.15	98.74	94.79	96.02	95.33
52	1100	95.84	95.07	98.74	94.79	95.98	95.37
53	1115	95.80	95.15	98.70	94.79	95.98	95.33
54	1130	95.80	95.27	98.70	94.79	95.98	95.29
55	1145	95.80	95.03	98.74	94.79	95.98	95.29
56	1200	95.77	95.11	98.70	94.79	95.98	95.29
57	1215	95.73	95.11	98.74	94.79	95.98	95.25
58	1230	95.77	95.11	98.66	94.79	95.98	95.25
59	1245	95.80	95.07	98.62	94.79	95.98	95.25
60	1300	95.77	94.99	98.62	94.75	95.98	95.29
61	1315	95.73	95.27	98.66	94.75	95.98	95.25
62	1330	95.84	94.99	98.62	94.75	95.98	95.25
63	1345	95.77	94.99	98.62	94.75	95.94	95.25
64	1400	95.73	95.19	98.62	94.75	95.94	95.25
65	1415	95.77	95.31	98.62	94.75	95.90	95.25
66	1430	95.73	94.91	98.66	94.75	95.94	95.25
67	1445	95.73	95.07	98.66	94.75	95.98	95.25
68	1500	95.77	95.19	98.62	94.79	95.94	95.25
69	1515	95.80	94.95	98.66	94.79	95.98	95.33
70	1530	95.80	95.31	98.66	94.79	95.98	95.33
71	1545	95.80	95.19	98.70	94.83	96.02	95.33
72	1600	95.80	95.27	98.70	94.87	96.02	95.33
73	1615	95.88	95.27	98.74	94.87	96.06	95.37
74	1630	95.84	95.35	98.74	94.91	96.06	95.37
75	1645	95.84	95.39	98.74	94.91	96.10	95.37
76	1700	95.92	95.19	98.78	94.91	96.10	95.41
77	1715	95.84	95.39	98.78	94.95	96.10	95.41
78	1730	95.92	95.39	98.82	94.95	96.14	95.49
79	1745	95.92	95.35	98.78	94.99	96.14	95.45
80	1800	95.92	95.23	98.82	94.99	96.14	95.49
81	1815	95.96	95.27	98.85	94.99	96.14	95.45

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
1	2200	85.04	85.21	85.28	85.21	85.25	85.40
2	2215	85.08	85.25	85.28	85.21	85.25	85.40
3	2230	85.04	85.25	85.28	85.21	85.25	85.40
4	2245	85.08	85.25	85.28	85.21	85.25	85.40
5	2300	85.04	85.25	85.28	85.21	85.25	85.40
6	2315	85.08	85.25	85.28	85.21	85.25	85.40
7	2330	85.08	85.25	85.28	85.21	85.29	85.40
8	2345	85.76	86.09	85.96	85.89	86.01	86.12
9	015	86.28	86.32	86.40	86.36	86.40	86.56
10	030	85.64	85.77	85.84	85.77	85.81	85.96
11	045	85.44	85.57	85.64	85.61	85.61	85.76
12	0100	85.40	85.57	85.60	85.53	85.57	85.72
13	115	85.32	85.49	85.56	85.49	85.53	85.68
14	0130	85.32	85.49	85.52	85.45	85.49	85.64
15	145	85.28	85.45	85.48	85.45	85.49	85.60
16	200	85.28	85.45	85.44	85.41	85.45	85.60
17	215	85.24	85.45	85.44	85.41	85.45	85.56
18	230	85.24	85.41	85.44	85.41	85.41	85.56
19	245	85.20	85.37	85.40	85.37	85.41	85.56
20	300	85.20	85.37	85.40	85.37	85.41	85.52
21	0315	85.20	85.37	85.40	85.33	85.41	85.52
22	0330	85.20	85.37	85.40	85.33	85.41	85.52
23	0345	85.16	85.37	85.40	85.33	85.37	85.52
24	0400	85.16	85.37	85.40	85.33	85.37	85.52
25	0415	85.16	85.37	85.40	85.33	85.37	85.52
26	0430	85.16	85.37	85.4	85.33	85.37	85.52
27	0445	85.16	85.37	85.4	85.33	85.37	85.52
28	500	85.16	85.37	85.40	85.33	85.37	85.48
29	515	85.16	85.33	85.36	85.33	85.37	85.48
30	530	85.16	85.37	85.36	85.33	85.37	85.48
31	545	85.16	85.33	85.36	85.33	85.37	85.48
32	600	85.16	85.37	85.36	85.33	85.37	85.48
33	0615	85.16	85.33	85.36	85.33	85.37	85.48
34	0630	85.16	85.33	85.36	85.33	85.37	85.48
35	0645	85.16	85.33	85.36	85.33	85.37	85.48
36	0700	85.16	85.33	85.36	85.29	85.37	85.48
37	0715	85.16	85.33	85.26	85.33	85.37	85.48
38	0730	85.16	85.33	85.36	85.29	85.37	85.48
39	0745	85.16	85.36	85.59	85.29	85.37	85.48
40	0800	85.16	85.33	85.36	85.29	85.37	85.48
41	0815	85.16	85.33	85.36	85.29	85.37	85.48
42	0830	85.12	85.33	85.36	85.29	85.37	85.48
43	0845	85.16	85.33	85.36	85.29	85.37	85.48
44	0900	85.16	85.33	85.36	85.29	85.37	85.48
45	0915	85.16	85.33	85.36	85.29	85.37	85.40
46	0930	85.16	85.33	85.36	85.29	85.37	85.48
47	0945	85.16	85.33	85.36	85.29	85.37	85.48
48	1000	85.12	85.33	85.36	85.29	85.37	85.48
49	1015	85.16	85.33	85.36	85.29	85.37	85.48
50	1030	85.16	85.33	85.36	85.29	85.37	85.48

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
51	1045	85.16	85.33	85.36	85.29	85.37	85.48
52	1100	85.16	85.33	85.36	85.29	85.33	85.48
53	1115	85.16	85.33	85.36	85.33	85.37	85.48
54	1130	85.16	85.33	85.36	85.29	85.37	85.48
55	1145	85.16	85.33	85.36	85.29	85.37	85.48
56	1200	85.12	85.33	85.36	85.29	85.33	85.48
57	1215	85.16	85.33	85.36	85.25	85.37	85.48
58	1230	85.16	85.33	85.36	85.29	85.37	85.48
59	1245	85.16	85.29	85.36	85.29	85.37	85.48
60	1300	85.12	85.33	85.36	85.29	85.37	85.48
61	1315	85.16	85.33	85.36	85.33	85.37	85.48
62	1330	85.16	85.33	85.36	85.33	85.37	85.48
63	1345	85.16	85.33	85.36	85.33	85.37	85.48
64	1400	85.16	85.33	85.36	85.33	85.37	85.48
65	1415	85.16	85.33	85.36	85.33	85.37	85.48
66	1430	85.16	85.33	85.36	85.33	85.37	85.48
67	1445	85.16	85.33	85.36	85.33	85.37	85.48
68	1500	85.16	85.33	85.36	85.33	85.37	85.48
69	1515	85.16	85.33	85.36	85.33	85.37	85.48
70	1530	85.16	85.33	85.36	85.33	85.37	85.48
71	1545	85.16	85.33	85.56	85.29	85.37	85.48
72	1600	85.16	85.33	85.36	85.29	85.37	85.48
73	1615	85.16	85.33	85.36	85.33	85.37	85.48
74	1630	85.16	85.33	85.36	85.33	85.37	85.48
75	1645	85.16	85.23	85.36	85.29	85.37	85.48
76	1700	85.16	85.33	85.36	85.33	85.37	85.48
77	1715	85.16	85.33	85.36	85.29	85.37	85.48
78	1730	85.16	85.33	85.36	85.33	85.37	85.48
79	1745	85.16	85.33	85.36	85.33	85.37	85.48
80	1800	85.16	85.33	85.36	85.33	85.37	85.48
81	1815	85.16	85.33	85.36	85.33	85.37	85.48

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
1	2200	177.70	175.04	177.03	175.71	172.72	177.03
2	2215	177.37	175.37	176.04	174.05	172.39	176.37
3	2230	177.37	175.71	177.03	175.04	173.38	174.71
4	2245	177.70	175.04	175.71	174.38	173.05	174.38
5	2300	177.37	176.04	177.37	174.71	173.72	176.04
6	2315	177.03	176.04	177.03	174.71	173.05	175.71
7	2330	176.70	175.04	177.03	175.37	173.38	175.04
8	2345	176.70	175.04	177.03	174.05	171.06	175.04
9	015	176.04	175.37	173.72	173.38	171.06	174.71
10	030	175.37	174.38	176.04	174.71	172.39	175.04
11	045	176.04	174.05	175.37	174.05	173.38	173.72
12	0100	175.37	174.05	176.04	173.38	172.06	174.71
13	115	176.04	174.71	175.71	173.38	172.39	172.72
14	0130	175.71	173.72	175.71	173.38	171.73	173.38
15	145	176.37	174.71	175.04	172.72	174.05	173.38
16	200	176.04	173.38	176.04	173.38	171.39	175.04
17	215	175.71	174.38	176.04	173.38	171.06	175.04
18	230	175.37	175.04	175.71	173.38	174.05	173.05
19	245	176.37	174.38	175.37	172.72	173.38	173.38
20	300	176.04	173.38	176.04	173.72	171.73	173.72
21	0315	176.04	173.72	176.04	173.72	173.05	176.04
22	0330	176.04	173.38	174.71	173.38	173.05	174.38
23	0345	176.04	174.05	175.71	173.72	171.39	173.72
24	0400	176.04	174.05	176.04	174.38	171.06	174.05
25	0415	175.04	174.05	175.37	173.72	173.05	174.71
26	0430	176.37	174.38	174.71	173.38	172.06	174.05
27	0445	176.37	174.05	175.37	174.05	172.39	173.05
28	500	175.71	174.05	176.04	173.72	171.39	175.37
29	515	176.04	174.38	175.37	173.72	171.39	173.72
30	530	175.71	173.72	175.37	173.38	173.05	174.71
31	545	175.71	174.05	174.71	173.05	171.73	174.38
32	600	176.04	174.71	176.37	173.38	171.73	175.37
33	0615	175.71	173.05	175.37	173.38	173.38	173.72
34	0630	175.71	174.71	175.71	173.38	171.39	176.04
35	0645	176.37	175.04	176.37	173.38	172.72	175.04
36	0700	176.04	173.72	176.04	174.38	172.72	172.06
37	0715	176.04	173.72	176.04	174.71	172.06	174.05
38	0730	175.71	173.38	176.04	174.71	172.39	175.04
39	0745	175.71	174.05	174.71	173.05	171.73	173.72
40	0800	175.71	173.38	175.37	172.72	171.39	175.04
41	0815	176.37	173.72	176.04	173.38	171.73	174.38
42	0830	175.04	174.05	175.04	173.38	171.73	174.71
43	0845	175.71	174.38	175.71	173.38	172.39	174.71
44	0900	175.71	173.72	175.71	173.05	171.39	174.05
45	0915	176.04	173.72	176.37	173.72	172.06	174.71
46	0930	174.71	174.05	175.37	174.05	172.72	172.72
47	0945	174.71	173.72	174.38	173.72	172.39	173.38
48	1000	176.04	173.38	176.04	174.05	171.06	173.72
49	1015	176.04	173.38	174.05	173.72	171.72	175.04
50	1030	175.04	175.04	175.04	174.38	173.38	175.71

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
51	1045	175.71	174.38	174.05	172.72	173.38	174.05
52	1100	176.04	174.38	175.71	173.05	171.39	175.04
53	1115	175.71	173.38	176.04	172.72	172.39	174.05
54	1130	176.37	173.72	176.37	173.38	172.39	175.71
55	1145	176.04	174.71	175.71	174.05	171.06	174.05
56	1200	175.71	174.05	174.71	174.38	171.39	173.72
57	1215	176.70	174.71	175.37	173.38	173.38	175.04
58	1230	176.04	173.72	175.04	174.38	172.06	174.71
59	1245	175.71	174.38	176.04	173.72	172.39	174.38
60	1300	176.04	174.05	174.05	173.72	172.72	174.05
61	1315	176.04	173.72	174.71	173.38	171.06	174.71
62	1330	176.04	173.72	175.04	173.38	171.39	173.05
63	1345	176.37	174.38	175.71	173.72	173.38	174.05
64	1400	175.37	174.05	175.04	175.04	172.72	175.04
65	1415	176.04	174.05	175.71	174.05	172.39	174.71
66	1430	176.04	173.72	175.37	174.05	171.39	174.05
67	1445	176.04	173.72	175.71	174.05	172.72	174.71
68	1500	176.04	174.38	176.37	174.38	172.06	174.71
69	1515	176.70	174.05	176.37	173.05	172.72	174.05
70	1530	175.71	175.04	174.71	173.02	171.73	176.04
71	1545	176.04	174.38	176.04	174.05	172.39	174.71
72	1600	176.37	174.05	176.04	173.38	174.05	174.71
73	1615	175.71	175.04	176.37	175.05	173.72	175.04
74	1630	176.37	174.05	176.04	173.72	174.05	174.38
75	1645	176.37	175.04	175.71	174.05	173.05	174.38
76	1700	176.04	173.38	176.37	173.38	172.72	174.71
77	1715	176.37	174.05	177.03	174.38	172.72	176.04
78	1730	176.37	174.71	176.04	174.05	171.73	174.71
79	1745	176.37	174.71	175.04	174.05	172.39	174.38
80	1800	175.71	175.04	175.04	173.72	173.38	173.72
81	1815	176.04	174.71	174.38	175.04	171.73	174.38

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
1	2200	164.10	165.76	167.08	165.76	62528	62524
2	2215	165.42	165.76	167.08	164.76	62525	62521
3	2230	165.42	166.42	166.75	164.76	62522	62518
4	2245	164.10	166.09	167.08	165.76	62519	62516
5	2300	165.09	165.76	167.41	164.76	62516	62513
6	2315	165.42	165.76	167.41	164.76	62512	62510
7	2330	163.77	165.76	166.75	164.10	62509	62507
8	2345	165.76	166.75	167.08	165.76	63650	63650
9	015	165.42	167.41	168.74	166.75	64907	64915
10	030	166.42	167.08	168.74	165.09	64875	64884
11	045	166.42	166.75	167.41	165.76	64860	64870
12	0100	165.42	166.42	168.08	165.09	64850	64860
13	115	164.76	166.42	168.08	164.42	64842	64852
14	0130	165.09	166.75	167.41	165.42	64835	64846
15	145	165.42	166.42	167.08	164.76	64829	64840
16	200	164.43	166.42	167.08	165.42	64822	64833
17	215	165.09	166.09	167.41	165.76	64815	64826
18	230	164.43	166.09	167.41	165.42	64810	64820
19	245	164.76	166.09	167.08	164.43	64807	64816
20	300	163.77	166.09	167.75	165.42	64802	64811
21	0315	163.10	166.09	167.41	165.09	64797	64805
22	0330	167.08	166.42	166.75	165.42	64792	64801
23	0345	165.42	165.76	167.75	165.42	64789	64797
24	0400	166.42	165.42	167.41	165.09	64785	64793
25	0415	164.10	166.09	167.41	165.09	64781	64789
26	0430	163.77	165.76	167.41	165.42	64778	64786
27	0445	165.42	166.42	167.41	163.77	64775	64782
28	500	165.42	166.09	167.08	164.43	64791	64796
29	515	165.76	166.09	167.08	164.43	64770	64775
30	530	166.09	166.42	167.41	164.76	64766	64777
31	545	165.76	165.76	167.08	164.43	64763	64767
32	600	165.09	166.42	167.41	164.43	64759	64763
33	0615	164.76	166.09	166.42	165.42	64751	64759
34	0630	164.43	165.76	167.41	164.76	64752	64755
35	0645	166.42	165.76	167.41	165.09	64748	64751
36	0700	165.09	166.09	167.08	165.09	64742	64745
37	0715	164.43	166.09	166.42	164.76	64738	64740
38	0730	165.09	165.76	167.08	164.43	64733	64735
39	0745	167.08	165.76	166.75	164.43	64729	64731
40	0800	164.43	166.09	167.08	164.10	64724	64726
41	0815	164.43	165.76	167.41	165.09	64719	64722
42	0830	165.42	165.76	167.08	164.43	64714	64716
43	0845	164.76	166.09	167.41	164.76	64710	64712
44	0900	165.09	166.09	167.75	164.43	64707	64710
45	0915	166.09	166.09	166.75	164.43	64703	64706
46	0930	163.77	166.09	167.08	165.09	64699	64702
47	0945	163.43	165.76	167.08	165.42	64696	64700
48	1000	164.76	166.09	166.75	164.43	64694	64697
49	1015	164.43	165.76	166.75	164.76	64691	64695
50	1030	164.10	165.42	167.41	164.76	64687	64691

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
51	1045	164.43	165.76	167.41	164.43	64686	64690
52	1100	163.43	165.76	168.08	165.09	64684	64687
53	1115	164.43	165.76	166.75	164.43	64682	64685
54	1130	163.77	166.09	167.08	164.10	64679	64682
55	1145	164.43	166.09	167.75	165.09	64677	64680
56	1200	164.43	165.76	167.08	165.76	64669	64670
57	1215	165.09	166.42	167.41	165.09	64665	64668
58	1230	164.76	166.09	167.08	165.76	64664	64667
59	1245	166.09	166.09	167.08	164.43	64662	64664
60	1300	163.43	166.09	167.08	165.76	64659	64661
61	1315	163.10	166.42	167.41	164.43	64655	64657
62	1330	164.43	165.76	167.41	164.43	64653	64655
63	1345	164.10	165.76	167.75	165.42	64650	64652
64	1400	165.42	166.09	167.41	165.76	64647	64650
65	1415	165.09	166.42	167.08	164.76	64644	64646
66	1430	165.42	165.76	166.75	165.09	64642	64645
67	1445	164.76	165.42	167.41	164.76	64641	64644
68	1500	165.76	166.42	167.08	165.09	64640	64643
69	1515	162.77	166.09	166.75	164.76	64639	64642
70	1530	164.43	166.09	167.08	163.77	64638	64640
71	1545	164.76	165.76	167.08	165.42	64637	64640
72	1600	166.42	165.76	167.08	164.76	64636	64639
73	1615	165.09	166.09	167.08	164.10	64636	64638
74	1630	164.43	166.09	166.42	164.43	64635	64636
75	1645	163.43	165.76	167.41	165.42	64634	64635
76	1700	165.42	165.76	167.41	164.43	64632	64634
77	1715	165.09	165.76	166.75	164.76	64630	64632
78	1730	164.43	165.76	167.41	164.76	64629	64631
79	1745	165.09	166.09	167.08	164.76	64627	64630
80	1800	163.43	166.09	167.75	165.42	64625	64629
81	1815	164.43	166.09	166.42	164.43	64624	64627

REC #	TIME	TPAV	VPAV	PRAV	MASS
1	2200	92.546	.601	62.52	89273.7
2	2215	92.566	.597	62.518	89271.8
3	2230	92.557	.596	62.514	89270.6
4	2245	92.557	.593	62.512	89271.6
5	2300	92.543	.6	62.509	89258.9
6	2315	92.543	.598	62.505	89257
7	2330	92.551	.593	62.503	89258.8
8	2345	93.018	.594	63.645	90828.1
9	15	93.213	.594	64.907	92612.6
10	30	92.819	.597	64.875	92628.7
11	45	92.694	.593	64.861	92634.2
12	100	92.668	.592	64.851	92626.5
13	115	92.622	.586	64.843	92631.2
14	130	92.592	.587	64.836	92625.4
15	145	92.569	.59	64.83	92615.9
16	200	92.541	.59	64.823	92611.4
17	215	92.515	.591	64.816	92604.1
18	230	92.489	.589	64.811	92602.6
19	245	92.461	.587	64.807	92604.9
20	300	92.447	.586	64.802	92601.5
21	315	92.424	.594	64.797	92586.4
22	330	92.407	.593	64.792	92584.4
23	345	92.391	.587	64.789	92589.7
24	400	92.37	.588	64.785	92586
25	415	92.387	.59	64.781	92574.5
26	430	92.377	.587	64.778	92576.9
27	445	92.36	.586	64.774	92575.8
28	500	92.362	.591	64.789	92590.9
29	515	92.374	.586	64.768	92564.7
30	530	92.341	.593	64.767	92559.4
31	545	92.31	.587	64.761	92563.3
32	600	92.308	.592	64.757	92550.9
33	615	92.269	.588	64.751	92554.8
34	630	92.294	.592	64.749	92542.9
35	645	92.284	.595	64.745	92534.1
36	700	92.258	.584	64.739	92544.9
37	715	92.242	.587	64.735	92537.3
38	730	92.199	.591	64.73	92531.8
39	745	92.231	.586	64.726	92526.9
40	800	92.195	.587	64.721	92525.6
41	815	92.163	.588	64.716	92522.6
42	830	92.164	.588	64.711	92514.9
43	845	92.131	.59	64.707	92511
44	900	92.137	.586	64.704	92511.8
45	915	92.124	.59	64.7	92502.5
46	930	92.116	.583	64.696	92508
47	945	92.118	.583	64.694	92504.1
48	1000	92.124	.584	64.691	92498.6
49	1015	92.12	.587	64.689	92490.8
50	1030	92.121	.594	64.685	92475.8

REC #	TIME	TPAV	VPAV	PRAV	MASS
51	1045	92.119	.588	64.684	92483.4
52	1100	92.113	.589	64.681	92479.5
53	1115	92.115	.585	64.679	92480.7
54	1130	92.114	.591	64.676	92468.4
55	1145	92.101	.587	64.674	92473.2
56	1200	92.092	.586	64.665	92464.1
57	1215	92.087	.595	64.662	92447.4
58	1230	92.096	.591	64.661	92450.6
59	1245	92.088	.59	64.659	92448.5
60	1300	92.079	.588	64.656	92449.8
61	1315	92.098	.585	64.652	92444.2
62	1330	92.084	.582	64.65	92448.3
63	1345	92.075	.591	64.647	92432.8
64	1400	92.078	.594	64.644	92424
65	1415	92.087	.591	64.641	92421.7
66	1430	92.066	.587	64.639	92429.5
67	1445	92.049	.59	64.638	92425.6
68	1500	92.053	.592	64.637	92420
69	1515	92.055	.586	64.636	92427.4
70	1530	92.079	.591	64.635	92415.2
71	1545	92.092	.591	64.634	92411.5
72	1600	92.081	.595	64.633	92406.6
73	1615	92.105	.595	64.633	92402.1
74	1630	92.13	.591	64.631	92401.1
75	1645	92.111	.591	64.63	92403.2
76	1700	92.126	.591	64.629	92398.4
77	1715	92.134	.595	64.627	92387.5
78	1730	92.15	.59	64.626	92391.9
79	1745	92.152	.59	64.624	92388.6
80	1800	92.149	.589	64.623	92388.2
81	1815	92.157	.587	64.621	92387.6

JULY 12, 1982 (1830) - JULY 13, 1982 (1900)

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
1	1830	96.68	97.32	104.84	104.48	99.68	100.61
2	1845	96.72	97.36	104.84	104.48	99.6	100.65
3	1900	96.72	97.36	104.84	104.52	99.56	100.65
4	1915	96.76	97.40	104.84	104.56	99.52	100.69
5	1930	96.72	97.40	104.84	104.52	99.60	100.69
6	1945	96.76	97.48	104.84	104.56	99.64	100.69
7	2000	96.76	97.44	104.84	104.56	99.64	100.69
8	2015	96.76	97.48	104.84	104.6	99.52	100.69
9	2030	96.80	97.44	104.84	104.6	99.64	100.69
10	2045	96.8	97.48	104.84	104.6	99.6	100.69
11	2100	96.8	97.48	104.84	104.6	99.68	100.73
12	2115	96.76	97.44	104.84	104.64	99.52	100.69
13	2130	96.80	97.44	104.84	104.6	99.52	100.69
14	2145	96.76	97.44	104.84	104.60	99.60	100.69
15	2200	96.76	97.44	104.84	104.64	99.60	100.69
16	2215	96.68	97.36	104.84	104.52	99.6	100.69
17	2230	96.76	97.32	104.84	104.56	99.68	100.65
18	2245	96.64	97.32	104.84	104.56	99.52	100.65
19	2300	96.68	97.32	104.84	104.52	99.6	100.65
20	2315	96.64	97.32	104.84	104.52	99.52	100.61
21	2330	96.64	97.32	104.84	104.56	99.48	100.61
22	2345	96.60	97.28	104.84	104.52	99.56	100.61
23	0000	96.64	97.24	104.84	104.52	99.60	100.57
24	0015	96.60	97.28	104.84	104.48	99.64	100.57
25	0030	96.60	97.28	104.84	104.44	99.40	100.57
26	0045	96.60	97.28	104.84	104.52	99.56	100.57
27	0100	96.56	97.20	104.84	104.44	99.52	100.57
28	115	96.56	97.2	104.84	104.48	99.48	100.57
29	0130	96.56	97.2	104.84	104.48	99.52	100.53
30	145	96.52	97.20	104.84	104.48	99.56	100.53
31	0200	96.56	97.12	104.84	104.44	99.48	100.53
32	215	96.56	97.16	104.84	104.40	99.56	100.53
33	0230	96.56	97.12	104.84	104.44	99.52	100.53
34	0245	96.48	97.08	104.84	104.44	99.40	100.49
35	0300	96.48	97.08	104.84	104.40	99.48	100.49
36	0315	96.44	97.04	104.81	104.36	99.40	100.45
37	0330	96.40	97.00	104.84	104.32	99.48	100.49
38	0345	96.36	97.00	104.84	104.24	99.48	100.41
39	0400	96.40	97.00	104.84	104.24	99.40	100.41
40	0415	96.40	96.96	104.84	104.32	99.48	100.41
41	0430	96.36	96.96	104.84	104.24	99.32	100.37
42	0445	96.36	96.92	104.84	104.24	99.32	100.37
43	0500	96.32	96.96	104.84	104.20	99.28	100.33
44	0515	96.36	96.92	104.84	104.20	99.36	100.37
45	0530	96.28	96.88	104.84	104.16	99.36	100.33
46	0545	96.24	96.84	104.84	104.16	99.40	100.33
47	0600	96.24	96.84	104.84	104.16	99.32	100.37
48	0615	96.28	96.84	104.84	104.16	99.63	100.33
49	0630	96.24	96.84	104.84	104.12	99.24	100.29
50	645	96.20	96.84	104.84	104.12	99.28	100.29

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
51	0700	96.20	96.80	104.84	104.12	99.32	100.29
52	0715	96.16	96.76	104.84	104.04	99.40	100.29
53	0730	96.08	96.72	104.84	104.04	99.28	100.25
54	0745	96.12	96.68	104.84	104.08	99.16	100.21
55	0800	96.08	96.64	104.84	104.12	99.16	100.17
56	0815	96.04	96.60	104.84	103.96	99.20	100.17
57	0830	96.00	96.64	104.84	103.92	99.20	100.17
58	0845	95.92	96.52	104.82	104.00	99.00	100.17
59	0900	95.88	96.43	104.84	103.88	99.12	100.09
60	0915	95.84	96.44	104.84	103.88	99.16	100.09
61	0930	95.80	96.44	104.84	103.80	99.12	100.05
62	0945	95.72	96.36	104.84	103.80	99.12	100.05
63	1000	95.68	96.36	104.84	103.76	99.00	100.01
64	1015	95.68	96.28	104.84	103.72	99.04	99.97
65	1030	95.68	96.28	104.84	103.76	98.88	99.97
66	1045	95.64	96.24	104.84	103.72	99.00	99.97
67	1100	95.60	96.20	104.84	103.68	98.92	99.97
68	1115	95.72	96.24	104.84	103.72	98.92	99.97
69	1130	95.60	96.20	104.84	103.68	99.00	99.93
70	1145	95.60	96.20	104.84	103.72	98.92	99.93
71	1200	95.60	96.28	104.84	103.68	98.92	99.93
72	1215	95.56	96.20	104.84	103.68	99.00	99.93
73	1230	95.60	96.28	104.84	103.68	98.92	99.97
74	1245	95.60	96.24	104.84	103.64	99.00	99.93
75	1300	95.64	96.24	104.84	103.68	98.92	99.93
76	1315	95.64	96.28	104.84	103.60	99.00	99.93
77	1330	95.60	96.24	104.84	103.60	98.92	99.97
78	1345	95.64	96.24	104.16	103.84	99.04	99.97
79	1400	95.68	96.28	104.16	103.96	99.08	100.05
80	1415	95.68	96.32	104.16	104.12	99.12	100.17
81	1430	95.68	96.32	104.16	104.36	99.28	100.21
82	1445	95.64	96.36	104.16	104.72	99.40	100.37
83	1500	95.72	96.36	104.16	104.96	99.48	100.49
84	1515	95.76	96.40	104.16	105.24	99.64	100.69
85	1530	95.80	96.48	104.16	105.32	99.80	100.81
86	1545	95.80	96.52	104.16	105.52	99.84	100.89
87	1600	95.84	96.56	104.16	105.68	99.88	101.01
88	1615	95.96	96.60	104.16	105.76	100.00	101.01
89	1630	96.00	96.64	104.16	105.84	100.00	101.09
90	1645	96.00	96.68	104.16	105.92	100.04	101.13
91	1700	96.04	96.76	104.16	105.92	100.24	101.17
92	1715	96.16	96.80	104.16	106.00	100.20	101.25
93	1730	96.20	96.76	104.16	106.04	100.20	101.25
94	1745	96.16	96.84	104.16	106.04	100.20	101.29
95	1800	96.24	96.88	104.16	106.12	100.28	101.29
96	1815	96.28	96.92	104.16	106.12	100.40	101.37
97	1830	96.28	96.96	104.16	106.12	100.32	101.37
98	1845	96.32	97.	104.16	106.16	100.52	101.41
99	1900	96.40	97.04	104.16	106.20	100.28	101.41

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
1	1830	96.54	98.42	97.86	98.15	97.02	95.762
2	1845	96.66	98.42	97.82	98.15	96.98	95.762
3	1900	96.74	98.42	97.82	98.15	97.02	95.802
4	1915	96.9	98.46	97.82	98.19	97.02	95.842
5	1930	96.98	98.46	97.74	98.19	97.06	95.842
6	1945	96.70	98.50	97.82	98.15	97.10	95.842
7	2000	96.82	98.5	97.9	98.15	97.06	95.882
8	2015	96.90	98.54	97.9	98.19	97.1	95.842
9	2030	96.82	98.5	97.9	98.23	97.02	95.882
10	2045	96.74	98.50	97.9	98.23	97.10	95.882
11	2100	96.94	98.5	97.9	98.19	97.14	95.922
12	2115	96.7	98.54	97.94	98.23	97.14	95.882
13	2130	96.78	98.54	97.86	98.27	97.06	95.842
14	2145	96.62	98.50	97.9	98.27	97.1	95.882
15	2200	96.82	98.5	97.86	98.19	97.06	95.88
16	2215	96.86	98.46	97.86	98.23	97.1	95.802
17	2230	96.7	98.46	97.82	98.15	97.1	95.8
18	2245	96.66	98.46	97.78	98.19	97.1	95.802
19	2300	96.7	98.42	97.78	98.23	97.06	95.802
20	2315	96.70	98.46	97.78	98.23	97.02	95.802
21	2330	96.94	98.46	97.74	98.15	97.06	95.802
22	2345	96.90	98.42	97.78	98.19	97.02	95.802
23	0000	96.62	98.42	97.78	98.15	97.02	95.762
24	0015	96.58	98.42	97.78	98.19	96.98	95.762
25	0030	96.70	98.42	97.74	98.07	96.98	95.762
26	0045	96.50	98.38	97.66	98.15	96.94	95.762
27	0100	96.62	98.42	97.78	98.11	96.98	95.762
28	115	96.5	98.42	97.74	98.15	96.98	95.762
29	0130	96.58	98.38	97.74	98.11	96.90	95.762
30	145	96.78	98.38	97.74	98.11	96.94	95.722
31	0200	96.78	98.38	97.70	98.11	96.94	95.722
32	215	96.66	98.38	97.66	98.11	96.98	95.682
33	0230	96.46	98.34	97.62	97.99	96.90	95.682
34	0245	96.62	98.34	97.74	98.11	96.86	95.682
35	0300	96.62	98.30	97.58	98.03	96.86	95.64
36	0315	96.38	98.30	97.66	97.99	96.86	95.60
37	0330	96.30	98.26	97.58	97.99	96.78	95.60
38	0345	96.46	98.26	97.58	97.99	96.86	95.60
39	0400	96.22	98.26	97.50	97.86	96.82	95.56
40	0415	96.34	98.82	97.46	97.90	96.86	95.56
41	0430	96.50	98.22	97.54	97.82	96.74	95.52
42	0445	96.26	98.18	97.54	97.90	96.78	95.48
43	0500	96.34	98.18	97.50	97.90	96.74	95.48
44	0515	96.38	98.18	97.54	97.82	96.70	95.441
45	0530	96.30	98.14	97.42	97.78	96.66	95.441
46	0545	96.26	98.14	97.42	97.78	96.70	95.441
47	0600	96.18	98.14	97.46	97.82	96.70	95.441
48	0615	96.22	98.14	97.46	97.82	96.62	95.44
49	0630	96.26	98.14	97.46	97.78	96.66	95.441
50	645	96.30	98.10	97.46	97.82	96.74	95.441

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
51	0700	96.26	98.10	97.42	97.78	96.66	95.441
52	0715	96.22	98.1	97.42	97.78	96.66	95.402
53	0730	96.22	98.10	97.42	97.82	96.66	95.362
54	0745	96.02	98.06	97.30	97.78	96.58	95.322
55	0800	95.90	98.02	97.38	97.70	96.50	95.322
56	0815	96.02	97.98	97.34	97.66	96.50	95.322
57	0830	96.18	98.02	97.30	97.66	96.46	95.282
58	0845	96.22	97.98	97.26	97.66	96.50	95.282
59	0900	95.98	97.94	97.26	97.62	96.42	95.242
60	0915	95.78	97.90	97.72	97.54	96.46	95.162
61	0930	95.70	97.90	97.14	97.50	96.34	95.122
62	0945	95.82	97.86	97.14	97.46	96.38	95.122
63	1000	95.66	97.78	97.14	97.42	96.30	95.082
64	1015	95.82	97.82	97.10	97.41	96.30	95.040
65	1030	95.70	97.78	97.10	97.42	96.30	95.002
66	1045	95.70	97.78	97.14	97.46	96.30	95.002
67	1100	95.82	97.78	97.10	97.38	96.22	95.042
68	1115	96.14	97.74	97.10	97.38	96.18	95.002
69	1130	95.66	97.78	97.10	97.42	96.18	95.002
70	1145	95.70	97.74	97.06	97.42	96.26	95.042
71	1200	95.86	97.74	97.06	97.42	96.18	95.002
72	1215	95.70	97.78	97.02	97.38	96.18	95.002
73	1230	95.90	97.78	96.98	97.42	96.18	95.002
74	1245	95.66	97.74	97.06	97.34	96.26	95.002
75	1300	95.98	97.74	97.14	97.38	96.18	95.002
76	1315	95.74	97.78	97.06	97.42	96.22	95.042
77	1330	95.94	97.78	97.02	97.46	96.22	95.042
78	1345	95.98	97.78	97.10	97.46	96.30	95.042
79	1400	95.90	97.82	97.14	97.54	96.34	95.082
80	1415	96.06	97.90	97.26	97.62	96.46	95.122
81	1430	96.14	97.98	97.26	97.78	96.58	95.162
82	1445	96.18	98.10	97.34	97.82	96.62	95.162
83	1500	96.30	98.18	97.46	97.90	96.74	95.246
84	1515	96.46	98.26	97.58	97.99	96.86	95.242
85	1530	96.42	98.38	97.66	98.11	96.94	95.322
86	1545	96.50	98.46	97.70	98.11	97.02	95.402
87	1600	96.46	98.50	97.82	98.19	97.06	95.441
88	1615	96.74	98.54	97.82	98.27	97.18	95.481
89	1630	96.58	98.62	97.90	98.27	97.14	95.481
90	1645	96.50	98.62	97.90	98.27	97.26	95.521
91	1700	96.70	98.70	97.90	98.39	97.26	95.562
92	1715	96.62	98.70	97.98	98.39	97.30	95.562
93	1730	96.74	98.74	98.10	98.43	97.30	95.602
94	1745	96.74	98.74	98.02	98.43	97.38	95.642
95	1800	96.62	98.82	98.10	98.47	97.34	95.642
96	1815	96.34	98.82	98.06	98.47	97.42	95.642
97	1830	96.82	98.82	98.10	98.47	97.46	95.642
98	1845	96.82	98.85	98.14	98.51	97.46	95.682
99	1900	96.78	98.85	98.14	98.55	97.42	95.682

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
1	1830	95.96	95.31	98.85	94.99	96.18	95.45
2	1845	96.00	95.39	98.85	95.03	96.18	95.53
3	1900	95.96	95.55	98.85	95.03	96.18	95.53
4	1915	96.00	95.59	98.49	95.07	96.22	95.33
5	1930	95.96	95.75	98.93	95.07	96.22	95.57
6	1945	96.04	95.51	98.97	95.10	96.26	95.61
7	2000	96.04	95.47	98.97	95.10	96.30	95.61
8	2015	96.04	95.47	99.05	95.14	96.3	95.57
9	2030	96.04	95.47	99.05	95.14	96.3	95.65
10	2045	96.04	95.51	99.01	95.14	96.30	95.65
11	2100	96.04	95.59	99.05	95.14	96.3	95.61
12	2115	96.12	95.67	99.05	95.14	96.3	95.61
13	2130	96.04	95.23	98.97	95.10	96.30	95.53
14	2145	96.	95.51	98.93	95.07	96.26	95.57
15	2200	96.04	95.31	98.93	95.07	96.3	95.53
16	2215	95.96	95.19	98.89	95.03	96.22	95.53
17	2230	96.	95.31	98.97	95.07	96.26	95.53
18	2245	96.	95.15	99.01	95.03	96.18	95.53
19	2300	95.96	95.27	99.05	95.03	96.18	95.53
20	2315	95.96	95.31	99.05	95.03	96.22	95.53
21	2330	95.96	95.23	99.09	95.03	96.18	95.45
22	2345	95.96	95.23	99.09	95.03	96.18	95.45
23	0000	95.92	95.19	99.05	94.99	96.14	95.49
24	0015	95.96	95.51	99.05	94.99	96.18	95.45
25	0030	95.96	95.19	99.09	94.99	96.18	95.45
26	0045	95.96	95.19	99.05	94.99	96.14	95.49
27	0100	95.92	95.11	99.05	94.99	96.14	95.41
28	115	95.92	95.15	99.05	94.99	96.14	95.49
29	0130	95.88	95.11	99.09	94.95	96.14	95.41
30	145	95.88	95.15	99.05	94.91	96.10	95.41
31	0200	95.88	95.23	99.05	94.91	96.10	95.37
32	215	95.84	95.19	99.05	94.91	96.06	95.41
33	0230	95.84	95.19	99.01	94.91	96.06	95.37
34	0245	95.80	95.15	98.97	94.87	96.02	95.33
35	0300	95.84	94.95	98.93	94.83	96.02	95.33
36	0315	95.84	94.91	98.93	94.79	96.02	95.29
37	0330	95.73	95.03	98.93	94.79	96.02	95.25
38	0345	95.73	95.03	98.93	94.75	95.98	95.25
39	0400	95.77	94.87	98.93	94.75	95.90	95.25
40	0415	95.77	94.76	98.93	94.71	95.94	95.21
41	0430	95.69	94.87	98.89	94.71	95.90	95.21
42	0445	95.69	95.03	98.85	94.71	95.90	95.17
43	0500	95.65	94.87	98.85	94.67	95.86	95.21
44	0515	95.65	94.99	98.85	94.63	95.86	95.13
45	0530	95.65	94.87	98.82	94.63	95.86	95.13
46	0545	95.65	94.87	98.78	94.63	95.86	95.13
47	0600	95.65	94.91	98.82	94.63	95.82	95.17
48	0615	95.61	94.95	98.85	94.63	95.86	95.13
49	0630	95.65	95.07	98.82	94.63	95.86	95.13
50	645	95.61	94.91	98.78	94.63	95.82	95.13

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
51	0700	95.57	94.87	98.78	94.59	95.82	95.05
52	0715	95.61	94.99	98.78	94.59	95.78	95.05
53	0730	95.61	94.83	98.74	94.55	95.78	95.05
54	0745	95.49	94.87	98.74	94.51	95.74	95.01
55	0800	95.49	94.76	98.66	94.47	95.70	95.01
56	0815	95.49	94.76	98.66	94.43	95.66	94.47
57	0830	95.45	94.76	98.54	94.43	95.66	94.93
58	0845	95.41	94.64	98.46	94.39	95.62	94.93
59	0900	95.41	94.60	98.38	94.31	95.58	94.89
60	0915	95.33	94.56	98.30	94.27	95.54	94.85
61	0930	95.37	94.68	98.26	94.23	95.50	94.81
62	0945	95.29	94.52	98.18	94.23	95.50	94.81
63	1000	95.25	94.72	98.10	94.15	95.42	94.73
64	1015	95.21	94.44	98.10	94.15	95.38	94.69
65	1030	95.25	94.52	98.06	94.11	95.38	94.69
66	1045	95.21	94.56	98.06	94.11	95.38	94.73
67	1100	95.21	94.56	98.02	94.11	95.38	94.69
68	1115	95.21	94.56	97.98	94.11	95.38	94.73
69	1130	95.21	94.36	98.02	94.11	95.38	94.69
70	1145	95.17	94.60	97.98	94.11	95.38	94.69
71	1200	95.21	94.64	97.98	94.15	95.34	94.69
72	1215	95.17	94.76	97.98	94.11	95.34	94.69
73	1230	95.21	94.60	97.98	94.15	95.38	94.69
74	1245	95.21	94.68	97.98	94.15	95.38	94.69
75	1300	95.21	94.52	97.98	94.15	95.38	94.73
76	1315	95.21	94.64	98.02	94.15	95.42	94.73
77	1330	95.21	94.60	98.02	94.19	95.42	94.77
78	1345	95.25	94.76	98.06	94.19	95.42	94.73
79	1400	95.29	94.87	98.10	94.23	95.46	94.77
80	1415	95.37	94.91	98.18	94.27	95.50	94.81
81	1430	95.45	95.15	98.22	94.31	95.54	94.85
82	1445	95.53	94.79	98.34	94.35	95.58	94.89
83	1500	95.61	95.43	98.46	94.39	95.66	94.89
84	1515	95.61	95.31	98.50	94.43	95.66	94.97
85	1530	95.77	95.51	98.58	94.51	95.74	95.05
86	1545	95.84	95.47	98.62	94.59	95.82	95.13
87	1600	95.88	95.59	98.66	94.59	95.86	95.13
88	1615	95.92	95.87	98.74	94.63	95.90	95.21
89	1630	95.88	95.83	98.74	94.67	95.94	95.21
90	1645	95.96	95.91	98.78	94.71	95.98	95.25
91	1700	95.96	95.91	98.82	94.71	95.98	95.25
92	1715	96.24	95.83	98.85	94.75	96.02	95.26
93	1730	96.16	95.95	98.85	94.75	96.02	95.29
94	1745	96.16	95.85	98.85	94.79	96.06	95.33
95	1800	96.04	95.83	98.85	94.79	96.06	95.33
96	1815	96.08	96.03	98.85	94.79	96.10	95.33
97	1830	96.04	95.95	98.85	94.83	96.10	95.37
98	1845	96.16	95.75	98.93	94.83	96.14	95.37
99	1900	96.24	96.10	98.97	94.87	96.14	95.37

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
1	1830	85.16	85.37	85.40	85.33	85.37	85.48
2	1845	85.16	85.33	85.40	85.33	85.37	85.48
3	1900	85.16	85.33	85.40	85.33	85.37	85.48
4	1915	85.16	85.37	85.40	85.33	85.37	85.52
5	1930	85.16	85.33	85.4	85.33	85.37	85.48
6	1945	85.16	85.37	85.4	85.33	85.37	85.48
7	2000	85.16	85.33	85.4	85.33	85.37	85.48
8	2015	85.16	85.37	85.4	85.33	85.37	85.48
9	2030	85.16	85.37	85.4	85.33	85.37	85.48
10	2045	85.16	85.37	85.40	85.33	85.37	85.48
11	2100	85.2	85.37	85.4	85.33	85.37	85.52
12	2115	85.16	85.37	85.4	85.33	85.37	85.48
13	2130	85.16	85.37	85.4	85.33	85.37	85.48
14	2145	85.16	85.37	85.40	85.33	85.37	85.48
15	2200	85.16	85.37	85.4	85.33	85.37	85.48
16	2215	85.16	85.33	85.36	85.33	85.37	85.48
17	2230	85.16	85.33	85.40	85.33	85.37	85.48
18	2245	85.16	85.37	85.4	85.33	85.37	85.48
19	2300	85.16	85.33	85.4	85.33	85.37	85.48
20	2315	85.16	85.33	85.40	85.33	85.37	85.48
21	2330	85.16	85.37	85.40	85.33	85.37	85.52
22	2345	85.16	85.37	85.40	85.33	85.37	85.52
23	0000	85.16	85.33	85.40	85.33	85.37	85.48
24	0015	85.16	85.33	85.40	85.33	85.37	85.48
25	0030	85.16	85.37	85.40	85.33	85.37	85.48
26	0045	85.16	85.37	85.40	85.33	85.37	85.48
27	0100	85.16	85.37	85.40	85.33	85.37	85.52
28	115	85.16	85.37	85.4	85.33	85.37	85.48
29	0130	85.16	85.37	85.40	85.33	85.37	85.48
30	145	85.16	85.33	85.40	85.33	85.37	85.48
31	0200	85.16	85.37	85.40	85.33	85.37	85.48
32	215	85.16	85.37	85.40	85.33	85.37	85.52
33	0230	85.16	85.37	85.40	85.33	85.37	85.52
34	0245	85.20	85.37	85.40	85.33	85.37	85.52
35	0300	85.16	85.37	85.40	85.33	85.37	85.52
36	0315	85.16	85.37	85.40	85.33	85.37	85.52
37	0330	85.20	85.37	85.40	85.33	85.37	85.52
38	0345	85.20	85.37	85.40	85.33	85.37	85.52
39	0400	85.16	85.37	85.40	85.33	85.37	85.52
40	0415	85.20	85.37	85.40	85.33	85.41	85.52
41	0430	85.20	85.37	85.40	85.33	85.37	85.52
42	0445	85.20	85.37	85.40	85.33	85.37	85.52
43	0500	85.20	85.37	85.40	85.33	85.37	85.52
44	0515	85.20	85.37	85.40	85.33	85.41	85.52
45	0530	85.20	85.37	85.40	85.33	85.37	85.52
46	0545	85.20	85.37	85.40	85.33	85.37	85.52
47	0600	85.20	85.37	85.40	85.33	85.37	85.52
48	0615	85.2	85.37	85.4	85.33	85.37	85.52
49	0630	85.16	85.37	85.40	85.33	85.37	85.52
50	645	85.20	85.37	85.40	85.33	85.37	85.52

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
51	0700	85.2	85.37	85.4	85.33	85.37	85.52
52	0715	85.2	85.37	85.4	85.33	85.41	85.52
53	0730	85.20	85.37	85.40	85.33	85.41	85.52
54	0745	85.20	85.37	85.40	85.33	85.41	85.52
55	0800	85.20	85.37	85.40	85.33	85.37	85.52
56	0815	85.20	85.37	85.40	85.33	85.37	85.52
57	0830	85.20	85.37	85.40	85.33	85.41	85.52
58	0845	85.16	85.37	85.40	85.33	85.37	85.52
59	0900	85.20	85.37	85.40	85.33	85.41	85.52
60	0915	85.20	85.33	85.40	85.33	85.37	85.52
61	0930	85.16	85.33	85.40	85.33	85.37	85.48
62	0945	85.20	85.37	85.40	85.33	85.37	85.52
63	1000	85.16	85.33	85.40	85.33	85.37	85.48
64	1015	85.16	85.37	85.40	85.33	85.37	85.48
65	1030	85.20	85.37	85.40	85.33	85.37	85.42
66	1045	85.16	85.37	85.40	85.33	85.37	85.52
67	1100	85.16	85.37	85.40	85.33	85.37	85.52
68	1115	85.16	85.37	85.40	85.33	85.37	85.52
69	1130	85.20	85.37	85.40	85.33	85.37	85.48
70	1145	85.16	85.37	85.52	85.33	85.37	85.52
71	1200	85.16	85.37	85.40	85.33	85.37	85.52
72	1215	85.20	85.33	85.40	85.33	85.37	85.48
73	1230	85.20	85.37	85.40	85.33	85.41	85.52
74	1245	85.16	85.37	85.40	85.33	85.37	85.52
75	1300	85.20	85.37	85.40	85.33	85.37	85.52
76	1315	85.20	85.37	85.40	85.33	85.37	85.52
77	1330	85.20	85.37	85.40	85.33	85.37	85.52
78	1345	85.20	85.37	85.40	85.33	85.37	85.52
79	1400	85.20	85.37	85.40	85.33	85.41	85.52
80	1415	85.20	85.37	85.40	85.33	85.41	85.52
81	1430	85.20	85.37	85.40	85.33	85.37	85.52
82	1445	85.20	85.37	85.40	85.33	85.41	85.52
83	1500	85.20	85.37	85.40	85.33	85.41	85.52
84	1515	85.20	85.37	85.40	85.33	85.41	85.42
85	1530	85.20	85.37	85.40	85.37	85.41	85.56
86	1545	85.20	85.37	85.40	85.33	85.41	85.56
87	1600	85.20	85.37	85.40	85.37	85.41	85.56
88	1615	85.20	85.37	85.40	85.37	85.41	85.56
89	1630	85.20	85.37	85.40	85.33	85.41	85.56
90	1645	85.20	85.37	85.40	85.37	85.41	85.56
91	1700	85.20	85.37	85.40	85.37	85.41	85.25
92	1715	85.20	85.37	85.40	85.37	85.41	85.56
93	1730	85.20	85.37	85.40	85.33	85.41	85.56
94	1745	85.20	85.37	85.40	85.37	85.41	85.56
95	1800	85.20	85.37	85.40	85.37	85.41	85.56
96	1815	85.20	85.37	85.40	85.37	85.41	85.56
97	1830	85.20	85.37	85.40	85.37	85.41	85.56
98	1845	85.20	85.37	85.40	85.37	85.41	85.56
99	1900	85.24	85.37	85.40	85.37	85.41	85.56

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
1	1830	177.03	175.04	175.71	174.05	173.72	173.72
2	1845	176.37	174.38	177.03	176.04	172.06	174.38
3	1900	176.37	174.05	174.71	174.38	172.39	175.71
4	1915	177.03	175.04	177.03	174.05	172.72	176.04
5	1930	177.03	174.71	176.04	174.05	172.06	176.04
6	1945	176.37	174.71	176.04	175.04	172.72	176.04
7	2000	176.7	174.38	176.70	174.38	174.05	175.04
8	2015	177.03	175.04	176.27	174.05	173.38	173.72
9	2030	176.37	174.38	176.7	174.38	173.72	175.71
10	2045	177.03	174.38	176.37	174.71	174.71	174.38
11	2100	176.7	175.04	176.37	174.38	172.72	175.04
12	2115	177.03	175.04	176.7	174.05	173.72	175.37
13	2130	176.7	175.71	176.37	174.05	172.39	173.38
14	2145	177.03	174.71	176.04	173.38	171.39	174.71
15	2200	176.37	175.37	176.04	174.71	172.72	175.04
16	2215	176.04	174.71	176.34	174.05	171.73	173.38
17	2230	176.04	174.71	176.7	174.05	173.05	175.04
18	2245	177.37	174.38	177.03	174.71	171.73	173.38
19	2300	176.37	174.71	175.71	175.04	173.05	171.39
20	2315	176.04	174.05	177.03	175.71	172.39	172.39
21	2330	176.37	174.38	175.71	173.71	173.38	173.38
22	2345	176.37	174.71	176.04	174.05	172.39	174.71
23	0000	176.37	174.71	176.37	174.05	173.05	171.06
24	0015	176.37	174.71	177.37	174.71	174.05	173.38
25	0030	176.70	175.04	176.37	174.71	173.72	173.38
26	0045	176.04	174.38	177.03	174.71	173.38	172.72
27	0100	176.70	174.71	176.04	174.38	173.72	172.39
28	115	176.7	174.05	176.04	174.71	172.39	173.72
29	0130	176.7	175.04	176.37	174.71	173.38	173.38
30	145	176.04	173.72	176.04	173.72	174.05	175.04
31	0200	176.70	175.71	176.04	174.05	172.06	176.04
32	215	177.03	174.05	176.04	173.38	174.05	174.71
33	0230	177.03	175.04	176.04	175.04	171.39	173.38
34	0245	176.37	174.71	176.04	174.05	172.39	175.37
35	0300	176.37	174.71	175.37	173.38	173.05	175.71
36	0315	175.37	174.71	175.04	174.05	171.73	175.04
37	0330	176.37	173.72	175.71	175.37	171.37	173.72
38	0345	176.37	174.38	176.37	174.71	172.39	174.71
39	0400	176.37	174.71	177.03	173.72	172.39	174.05
40	0415	176.70	174.05	174.71	173.72	173.38	171.39
41	0430	175.71	174.71	175.37	173.38	171.06	174.71
42	0445	176.04	173.72	175.71	173.72	173.72	172.39
43	0500	176.04	173.72	175.71	173.05	171.39	174.05
44	0515	176.37	174.71	175.37	173.72	172.72	173.72
45	0530	175.71	174.71	175.71	173.38	172.06	172.06
46	0545	175.71	173.72	176.04	175.04	172.39	172.72
47	0600	176.37	173.72	175.04	174.05	172.06	171.39
48	0615	175.71	174.05	176.04	174.38	172.06	170.07
49	0630	176.37	173.72	175.37	175.71	172.72	173.38
50	645	176.37	174.38	176.04	174.71	172.06	175.71

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
51	0700	176.04	175.04	175.71	173.72	174.05	172.06
52	0715	176.04	174.05	175.37	174.71	174.71	173.38
53	0730	176.04	174.38	175.04	173.05	172.72	174.38
54	0745	176.04	174.71	175.04	173.38	173.38	173.38
55	0800	175.37	174.71	175.04	173.38	173.72	173.38
56	0815	176.04	173.04	176.04	173.38	172.39	172.06
57	0830	176.37	173.72	175.37	173.72	174.38	174.38
58	0845	175.04	174.05	175.71	172.72	170.40	174.38
59	0900	176.04	173.72	174.38	172.72	172.39	174.71
60	0915	175.37	173.05	174.71	173.72	172.39	172.39
61	0930	175.37	173.72	174.71	173.05	172.39	170.40
62	0945	176.04	173.38	175.37	173.05	173.38	171.73
63	1000	175.37	172.72	174.71	173.05	171.73	170.73
64	1015	175.04	173.05	175.71	173.38	171.06	171.39
65	1030	175.04	173.72	175.71	173.72	171.39	171.73
66	1045	175.71	172.72	174.38	173.05	171.73	169.74
67	1100	175.37	173.38	174.71	172.72	172.39	170.73
68	1115	175.37	173.72	174.71	174.05	172.06	172.72
69	1130	175.37	172.39	175.37	173.38	170.73	171.06
70	1145	175.04	173.38	174.71	173.72	171.39	170.40
71	1200	175.71	173.05	175.04	174.05	170.73	174.05
72	1215	175.71	173.72	175.04	172.72	172.06	173.72
73	1230	175.37	173.38	175.04	174.38	173.72	172.72
74	1245	176.04	173.38	175.04	173.73	172.39	169.74
75	1300	175.04	173.72	175.71	173.38	170.73	171.06
76	1315	175.71	173.05	174.71	173.38	172.39	170.40
77	1330	175.71	173.05	174.71	173.05	170.07	173.38
78	1345	175.37	173.38	175.04	173.38	173.38	169.74
79	1400	175.37	173.38	176.04	173.38	172.06	171.39
80	1415	176.04	174.05	175.04	173.72	175.04	171.73
81	1430	175.71	174.05	175.71	173.72	173.72	170.73
82	1445	176.04	173.38	175.04	174.05	171.39	172.06
83	1500	176.04	173.38	176.37	173.38	173.38	172.06
84	1515	176.37	173.38	176.37	173.38	173.72	174.05
85	1530	176.04	173.72	176.37	174.71	172.06	174.71
86	1545	176.04	173.72	176.37	173.38	174.71	174.71
87	1600	176.04	174.05	175.71	173.72	172.39	175.39
88	1615	176.70	174.05	176.04	174.71	174.71	171.73
89	1630	176.70	173.72	176.04	173.38	174.71	170.73
90	1645	176.70	174.05	176.04	174.41	174.38	171.39
91	1700	176.70	174.71	176.70	174.71	174.38	172.06
92	1715	177.03	175.04	176.04	173.72	174.71	172.72
93	1730	176.37	174.05	175.71	174.71	172.39	174.38
94	1745	176.37	174.38	176.70	174.05	173.38	172.06
95	1800	176.37	174.38	176.04	173.38	175.04	173.05
96	1815	176.37	174.38	176.04	174.05	173.72	171.39
97	1830	176.37	174.38	176.37	174.71	173.38	171.39
98	1845	176.70	174.05	176.04	174.38	172.39	171.73
99	1900	176.04	175.37	176.70	174.71	172.72	170.07

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
1	1830	166.42	166.09	167.41	165.09	64622	64626
2	1845	164.76	166.09	167.41	165.42	64620	64625
3	1900	165.09	165.42	167.75	165.42	64620	64624
4	1915	164.43	165.76	167.08	164.43	64619	64623
5	1930	165.42	166.09	167.08	164.76	64619	64623
6	1945	165.09	166.09	167.08	164.76	64617	64621
7	2000	164.76	166.42	167.41	164.43	64615	64620
8	2015	163.77	166.42	166.75	164.1	64613	64618
9	2030	165.09	166.09	167.41	165.09	64611	64617
10	2045	162.44	165.76	167.08	165.09	64609	64616
11	2100	165.09	166.09	167.08	164.43	64607	64613
12	2115	165.76	166.09	167.41	165.09	64603	64610
13	2130	165.42	166.42	167.08	165.09	64600	64607
14	2145	164.76	165.76	167.41	164.43	64597	64603
15	2200	164.43	165.76	167.08	165.09	64594	64600
16	2215	165.09	166.09	167.08	165.09	64591	64596
17	2230	163.77	166.42	167.41	165.09	64589	64593
18	2245	164.43	166.09	167.08	165.76	64586	64589
19	2300	165.09	166.09	167.41	164.76	64582	64586
20	2315	163.1	166.09	167.41	164.76	64579	64583
21	2330	164.43	166.09	167.41	164.43	64577	64580
22	2345	163.77	166.09	167.08	164.10	64574	64578
23	0000	165.76	166.09	167.08	164.76	64571	64575
24	0015	165.09	165.76	166.75	165.09	64568	64572
25	0030	165.42	166.09	167.08	163.77	64565	64570
26	0045	165.09	166.09	166.42	166.09	64562	64567
27	0100	164.43	166.09	167.08	165.76	64560	64564
28	115	164.1	166.09	167.41	165.76	64557	64562
29	0130	165.76	166.09	167.41	165.09	64554	64559
30	145	164.76	166.09	167.75	164.43	64552	64556
31	0200	165.09	166.42	167.08	165.09	64548	64552
32	215	163.1	165.76	167.08	164.76	64545	64549
33	0230	165.09	166.42	167.08	164.43	64541	64545
34	0245	164.76	166.42	167.41	164.43	64537	64540
35	0300	164.43	165.76	167.75	164.10	64534	64536
36	0315	165.42	165.76	167.08	164.43	64529	64534
37	0330	164.46	165.76	167.08	164.43	64525	64530
38	0345	164.43	165.76	167.08	165.76	64522	64526
39	0400	163.43	166.09	168.41	165.42	64518	64522
40	0415	164.43	165.76	167.08	164.76	64514	64519
41	0430	165.76	166.42	166.75	165.09	64510	64516
42	0445	165.76	166.09	166.75	164.43	64507	64512
43	0500	164.76	166.09	167.08	165.42	64504	64510
44	0515	164.43	165.76	167.08	164.43	64501	64506
45	0530	166.42	165.76	167.08	165.42	64497	64503
46	0545	166.42	165.42	167.08	164.43	64495	64500
47	0600	164.76	166.09	167.41	164.43	64493	64498
48	0615	165.09	166.09	167.41	165.09	64491	64496
49	0630	165.42	165.76	166.75	165.42	64489	64495
50	645	164.10	166.09	167.08	164.76	64486	64492

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
51	0700	166.75	166.09	167.41	165.42	64483	64488
52	0715	165.42	166.09	167.08	165.42	64477	64483
53	0730	164.43	165.76	167.08	165.76	64474	64479
54	0745	165.09	165.76	167.41	165.42	64470	64475
55	0800	164.43	165.76	167.08	164.76	64467	64471
56	0815	165.09	166.09	167.75	164.43	64462	64467
57	0830	164.76	165.76	167.75	165.09	64457	64463
58	0845	164.10	166.09	167.08	165.76	64453	64459
59	0900	166.09	166.09	167.08	165.09	64447	64454
60	0915	166.42	166.09	168.08	165.09	64444	64448
61	0930	164.43	165.76	166.75	165.76	64439	64444
62	0945	165.09	166.09	167.75	165.09	64435	64439
63	1000	166.09	165.76	167.75	164.43	64430	64434
64	1015	165.09	166.42	167.75	164.76	64427	64430
65	1030	165.76	165.76	167.75	165.42	64425	64427
66	1045	165.42	166.75	167.75	165.09	64422	64425
67	1100	166.75	165.76	167.08	165.09	64420	64421
68	1115	165.09	166.42	167.08	165.42	64418	64419
69	1130	164.76	165.76	167.41	165.76	64416	64418
70	1145	164.10	165.76	166.75	164.43	64414	64416
71	1200	165.42	166.09	167.41	164.76	64412	64413
72	1215	164.10	165.76	167.08	164.76	64410	64411
73	1230	165.42	166.09	167.41	164.43	64409	64410
74	1245	165.42	166.09	167.08	164.10	64407	64408
75	1300	164.43	166.42	167.41	164.76	64405	64407
76	1315	164.43	165.76	167.41	165.42	64404	64406
77	1330	164.10	166.09	167.41	166.09	64403	64405
78	1345	164.10	165.76	167.41	164.76	64403	64405
79	1400	166.42	165.42	167.08	164.43	64408	64409
80	1415	165.76	166.42	167.08	164.43	64411	64413
81	1430	163.77	165.42	166.75	165.42	64415	64417
82	1445	164.76	166.09	167.08	164.76	64419	64421
83	1500	165.09	166.42	167.41	165.42	64424	64427
84	1515	164.10	165.76	166.75	165.09	64426	64430
85	1530	163.77	166.09	167.75	164.10	64430	64434
86	1545	164.10	165.76	167.08	164.76	64433	64437
87	1600	165.04	165.42	167.08	164.76	64435	64438
88	1615	166.42	165.76	167.41	165.09	64437	64439
89	1630	163.43	166.09	167.08	165.76	64437	64439
90	1645	164.43	165.76	167.75	164.43	64437	64439
91	1700	167.08	166.42	166.75	165.09	64438	64440
92	1715	165.09	166.09	167.08	165.76	64438	64440
93	1730	165.09	166.42	167.75	165.09	64438	64439
94	1745	166.09	166.09	166.75	164.10	64438	64439
95	1800	165.09	166.09	167.75	165.09	64437	64437
96	1815	165.42	166.09	165.76	165.76	64435	64435
97	1830	165.42	165.76	167.08	165.09	64435	64435
98	1845	164.43	166.09	167.08	164.10	64434	64435
99	1900	165.42	166.09	167.08	164.10	64434	64435

REC #	TIME	TPAV	VPAV	PRAV	MASS
1	1830	92.168	.594	64.62	92373.9
2	1845	92.179	.592	64.618	92371.8
3	1900	92.19	.594	64.618	92366.7
4	1915	92.18	.595	64.617	92365.2
5	1930	92.219	.596	64.617	92358.6
6	1945	92.225	.597	64.615	92353.2
7	2000	92.226	.596	64.613	92351.7
8	2015	92.235	.589	64.611	92357.6
9	2030	92.241	.598	64.61	92341.5
10	2045	92.241	.593	64.608	92346.8
11	2100	92.257	.593	64.606	92339.4
12	2115	92.253	.598	64.602	92328.1
13	2130	92.212	.59	64.599	92342.7
14	2145	92.221	.589	64.596	92337.6
15	2200	92.213	.593	64.593	92328.5
16	2215	92.179	.587	64.589	92338.1
17	2230	92.197	.593	64.586	92322.1
18	2245	92.182	.588	64.583	92326.8
19	2300	92.186	.584	64.58	92326.7
20	2315	92.188	.584	64.577	92322.4
21	2330	92.187	.588	64.574	92313.3
22	2345	92.185	.589	64.572	92308.5
23	0	92.164	.583	64.568	92315.9
24	15	92.181	.591	64.565	92297.2
25	30	92.165	.59	64.563	92297.7
26	45	92.162	.589	64.56	92296
27	100	92.154	.588	64.558	92294.9
28	115	92.156	.589	64.555	92289.2
29	130	92.146	.592	64.552	92282.6
30	145	92.139	.594	64.55	92276.8
31	200	92.14	.596	64.545	92268.1
32	215	92.137	.591	64.542	92271.6
33	230	92.123	.587	64.539	92273.9
34	245	92.114	.593	64.534	92260.2
35	300	92.091	.594	64.531	92258.6
36	315	92.075	.59	64.527	92261.8
37	330	92.071	.586	64.523	92262.8
38	345	92.066	.592	64.52	92249.3
39	400	92.043	.59	64.516	92249.7
40	415	92.052	.582	64.512	92255.4
41	430	92.031	.589	64.509	92243.5
42	445	92.03	.586	64.505	92242.8
43	500	92.016	.587	64.503	92241
44	515	92.016	.587	64.499	92235
45	530	91.995	.584	64.496	92237.4
46	545	91.992	.586	64.493	92232.1
47	600	91.996	.58	64.491	92236.8
48	615	92.001	.578	64.489	92235.9
49	630	91.998	.589	64.488	92218.8
50	645	91.988	.593	64.484	92210.5

REC #	TIME	TPAV	VPAV	PRAV	MASS
51	700	91.973	.59	64.481	92212.4
52	715	91.976	.593	64.475	92199.8
53	730	91.957	.59	64.472	92202.4
54	745	91.935	.589	64.468	92200.9
55	800	91.912	.587	64.465	92202.3
56	815	91.871	.583	64.46	92209.1
57	830	91.89	.593	64.455	92184.2
58	845	91.861	.585	64.452	92195.9
59	900	91.838	.59	64.446	92183.4
60	915	91.815	.586	64.441	92187.7
61	930	91.787	.577	64.437	92198.9
62	945	91.776	.584	64.432	92183.5
63	1000	91.746	.577	64.427	92191.1
64	1015	91.725	.579	64.424	92187.7
65	1030	91.72	.581	64.421	92180.7
66	1045	91.727	.576	64.419	92184.1
67	1100	91.718	.579	64.416	92176.1
68	1115	91.724	.585	64.414	92164.8
69	1130	91.704	.576	64.412	92177.7
70	1145	91.723	.573	64.41	92176.7
71	1200	91.718	.586	64.408	92155.6
72	1215	91.712	.584	64.406	92155.9
73	1230	91.724	.587	64.405	92148.2
74	1245	91.719	.576	64.403	92162.5
75	1300	91.722	.576	64.401	92158.9
76	1315	91.733	.577	64.4	92154.7
77	1330	91.735	.582	64.399	92146.1
78	1345	91.743	.576	64.399	92152.9
79	1400	91.773	.58	64.404	92148.5
80	1415	91.808	.587	64.407	92137.1
81	1430	91.847	.58	64.411	92147.7
82	1445	91.865	.58	64.415	92149.4
83	1500	91.937	.586	64.421	92137.2
84	1515	91.954	.589	64.423	92133.2
85	1530	92.021	.589	64.427	92127.9
86	1545	92.051	.593	64.43	92121.8
87	1600	92.08	.592	64.432	92121.2
88	1615	92.127	.59	64.433	92118.3
89	1630	92.129	.583	64.433	92127.4
90	1645	92.156	.585	64.433	92119.9
91	1700	92.15	.591	64.434	92113.2
92	1715	92.196	.592	64.434	92105.2
93	1730	92.205	.592	64.434	92102.5
94	1745	92.214	.586	64.434	92109.8
95	1800	92.213	.592	64.432	92098.8
96	1815	92.229	.584	64.43	92104.5
97	1830	92.236	.585	64.43	92102.7
98	1845	92.248	.582	64.43	92104.5
99	1900	92.278	.58	64.43	92102.1

JULY 13, 1982 (1915) - JULY 14, 1982 (0230)

REC #	TIME	TE01	TE02	TE03	TE04	TE05	TE06
1	1915	96.44	97.08	104.16	106.24	100.48	101.45
2	1930	96.48	97.16	104.16	106.32	100.52	101.49
3	1945	96.52	97.16	104.16	106.36	100.56	101.53
4	2000	96.52	97.16	104.16	106.28	100.64	101.57
5	2015	96.60	97.24	104.16	106.32	100.48	101.57
6	2030	96.64	97.24	104.16	106.32	100.68	101.57
7	2045	96.98	97.28	104.16	106.36	100.64	101.61
8	2100	96.76	97.36	104.16	106.40	100.56	101.65
9	2115	96.68	97.44	104.16	106.40	100.68	101.65
10	2130	96.80	97.40	104.16	106.44	100.68	101.65
11	2145	96.84	97.48	104.16	106.44	100.64	101.69
12	2200	96.80	97.44	104.16	106.44	100.72	101.65
13	2215	96.88	97.44	104.16	106.36	100.68	101.65
14	2230	96.84	97.48	104.16	106.40	100.60	101.65
15	2245	96.88	97.44	104.16	106.36	100.68	101.65
16	2300	96.88	97.48	104.16	106.32	100.60	101.65
17	2315	96.92	97.44	104.16	106.36	100.52	101.61
18	2330	96.92	97.44	104.16	106.28	100.56	101.61
19	2345	96.84	97.44	104.16	106.28	100.64	101.37
20	0000	96.88	97.44	104.16	106.32	100.52	101.61
21	0015	96.92	97.48	104.16	106.28	100.60	101.61
22	030	96.88	97.44	104.16	106.24	100.68	101.61
23	045	96.88	97.44	104.16	106.24	100.6	101.57
24	0100	96.88	97.48	104.16	106.24	100.68	101.57
25	115	96.88	97.48	104.16	106.24	100.76	101.57
26	130	96.88	97.44	104.16	106.20	100.60	101.57
27	145	96.88	97.44	104.16	106.16	100.64	101.57
28	0200	96.92	97.44	104.16	106.24	100.64	101.57
29	0215	96.88	97.44	104.16	106.24	100.44	101.53
30	0230	96.92	97.44	104.16	106.16	100.56	101.53

REC #	TIME	TE07	TE08	TE09	TE10	TE11	TE12
1	1915	96.82	98.89	98.14	98.59	97.46	95.72
2	1930	96.82	98.93	98.18	98.59	97.54	95.76
3	1945	96.82	98.97	98.22	98.63	97.50	95.80
4	2000	96.82	98.97	98.18	98.63	97.58	95.802
5	2015	96.98	99.01	98.22	98.71	97.54	95.842
6	2030	96.86	99.05	98.30	98.71	97.62	95.84
7	2045	97.18	99.05	98.26	98.67	97.66	95.84
8	2100	97.02	99.05	98.30	98.75	97.62	95.92
9	2115	97.26	99.09	98.34	98.75	97.66	95.92
10	2130	97.14	99.09	98.38	98.79	97.74	95.962
11	2145	97.22	99.09	98.34	98.79	97.78	95.962
12	2200	97.02	99.09	98.30	98.83	97.70	95.962
13	2215	96.98	99.09	98.34	98.75	97.74	95.962
14	2230	96.82	99.09	98.30	98.75	97.70	95.962
15	2245	96.86	99.09	98.26	98.75	97.74	95.922
16	2300	96.98	99.05	98.38	98.71	97.62	95.922
17	2315	96.98	99.05	98.3	98.71	97.62	95.882
18	2330	96.86	99.05	98.3	98.75	97.62	95.882
19	2345	97.26	99.05	98.22	98.75	97.58	95.882
20	0000	96.94	99.01	98.26	98.71	97.62	95.842
21	0015	96.78	99.05	98.22	98.71	97.62	95.882
22	030	96.86	99.01	98.3	98.71	97.66	95.842
23	045	96.94	99.05	98.34	98.75	97.62	95.842
24	0100	96.78	99.01	98.34	98.71	97.62	95.842
25	115	96.82	99.01	98.30	98.71	97.66	95.842
26	130	96.94	99.01	98.3	98.71	97.62	95.842
27	145	96.94	99.01	98.30	98.71	97.54	95.802
28	0200	96.90	99.01	98.26	98.67	97.66	95.802
29	0215	96.82	98.97	98.22	98.67	97.58	95.802
30	0230	96.58	98.97	98.22	98.59	97.50	95.762

REC #	TIME	TE13	TE14	TE15	TE16	TE17	TE18
1	1915	96.36	96.34	99.01	94.91	96.18	95.45
2	1930	96.32	96.24	99.05	94.95	96.22	95.49
3	1945	96.28	96.14	99.09	94.99	96.26	95.53
4	2000	96.32	96.10	99.09	94.99	96.30	95.53
5	2015	96.36	96.10	99.13	95.03	96.30	95.53
6	2030	96.40	96.10	99.17	95.07	96.30	95.57
7	2045	96.36	96.34	99.17	95.07	96.34	95.65
8	2100	96.36	96.18	99.17	95.10	96.34	95.65
9	2115	96.56	96.30	99.17	95.18	96.38	95.65
10	2130	96.52	96.30	99.21	95.18	96.42	95.73
11	2145	96.44	96.14	99.21	95.22	96.46	95.69
12	2200	96.48	96.10	99.21	95.22	96.42	95.69
13	2215	96.40	96.14	99.21	95.18	96.42	95.69
14	2230	96.44	96.03	99.17	95.14	96.42	95.69
15	2245	96.44	96.14	99.17	95.10	96.38	95.65
16	2300	96.48	96.26	99.17	95.07	96.38	95.61
17	2315	96.44	96.3	99.09	95.07	96.34	95.61
18	2330	96.44	96.06	99.13	95.07	96.34	95.65
19	2345	96.36	96.22	99.13	95.07	96.34	95.61
20	0000	96.48	96.06	99.13	95.03	96.3	95.57
21	0015	96.40	95.99	99.13	95.03	96.34	95.57
22	030	96.4	96.1	99.09	95.03	96.3	95.61
23	045	96.40	96.22	99.09	95.03	96.30	95.57
24	0100	96.36	96.03	99.09	95.03	96.30	95.53
25	115	96.36	96.14	99.13	95.03	96.30	95.53
26	130	96.36	95.75	99.09	94.99	96.26	95.53
27	145	96.32	95.95	99.09	94.99	96.26	95.53
28	0200	96.28	95.95	99.09	94.99	96.26	95.53
29	0215	96.48	95.95	99.09	94.95	96.26	95.49
30	0230	96.28	95.87	99.05	94.95	96.22	95.53

REC #	TIME	TE19	TE20	TE21	TE22	TE23	TE24
1	1915	85.2	85.37	85.44	85.37	85.41	85.56
2	1930	85.24	85.37	85.44	85.37	85.41	85.56
3	1945	85.24	85.41	85.44	85.37	85.41	85.56
4	2000	85.24	85.41	85.44	85.37	85.41	85.56
5	2015	85.24	85.41	85.44	85.37	85.45	85.56
6	2030	85.24	85.41	85.44	85.37	85.41	85.56
7	2045	85.24	85.37	85.44	85.37	85.41	85.56
8	2100	85.24	85.41	85.44	85.37	85.45	85.56
9	2115	85.24	85.37	85.44	85.37	85.41	85.56
10	2130	85.24	85.41	85.44	85.37	85.45	85.50
11	2145	85.24	85.41	85.44	85.37	85.41	85.56
12	2200	85.24	85.37	85.44	85.37	85.41	85.56
13	2215	85.24	85.41	85.44	85.37	85.41	85.56
14	2230	85.20	85.37	85.44	85.37	85.41	85.56
15	2245	85.24	85.37	85.44	85.37	85.41	85.56
16	2300	85.24	85.41	85.44	85.37	85.41	85.56
17	2315	85.24	85.41	85.44	85.37	85.41	85.56
18	2330	85.24	85.41	85.44	85.37	85.45	85.56
19	2345	85.24	85.41	85.44	85.37	85.41	85.56
20	0000	85.24	85.41	85.44	85.37	85.45	85.56
21	0015	85.24	85.41	85.44	85.37	85.41	85.56
22	030	85.24	85.41	85.44	85.37	85.41	85.56
23	045	85.24	85.37	85.44	85.37	85.41	85.56
24	0100	85.24	85.37	85.44	85.37	85.45	85.56
25	115	85.24	85.37	85.44	85.37	85.41	85.56
26	130	85.24	85.37	85.44	85.37	85.41	85.56
27	145	85.24	85.41	85.44	85.37	85.41	85.56
28	0200	85.24	85.41	85.44	85.37	85.45	85.56
29	0215	85.24	85.37	85.44	85.37	85.41	85.56
30	0230	85.24	85.41	85.44	85.37	85.45	85.56

REC #	TIME	DE01	DE02	DE03	DE04	DE05	DE06
1	1915	176.70	174.71	176.7	173.72	172.72	170.73
2	1930	176.37	174.38	176.04	174.05	174.38	172.39
3	1945	177.37	175.04	177.03	174.71	174.05	172.72
4	2000	176.04	174.05	177.03	174.71	173.03	169.40
5	2015	177.03	175.04	176.04	174.38	173.05	170.40
6	2030	177.03	174.71	176.70	175.04	173.72	172.72
7	2045	177.37	175.04	177.03	174.38	175.04	172.06
8	2100	176.37	174.38	176.37	174.38	174.05	171.39
9	2115	177.03	175.04	176.37	175.04	175.71	171.73
10	2130	177.03	175.04	176.37	175.37	173.72	171.39
11	2145	176.70	175.04	177.03	174.71	175.04	172.39
12	2200	177.03	175.04	176.70	175.71	174.05	169.74
13	2215	177.03	175.04	177.03	174.38	174.05	170.07
14	2230	177.70	174.71	176.04	175.04	174.38	172.39
15	2245	176.37	175.04	176.7	175.04	175.04	170.40
16	2300	177.03	174.38	177.03	174.38	175.04	172.39
17	2315	177.03	175.04	176.37	174.38	173.38	173.38
18	2330	177.37	174.05	176.04	174.05	175.04	172.06
19	2345	176.70	174.05	176.70	173.72	175.71	171.06
20	0000	176.70	174.38	176.37	173.05	174.38	171.39
21	0015	177.03	174.38	176.37	173.72	172.39	170.73
22	030	176.37	176.04	176.04	174.38	173.38	170.73
23	045	176.70	174.71	176.04	174.05	174.05	171.06
24	0100	177.03	174.38	176.37	174.05	171.39	172.06
25	115	176.37	173.72	176.37	173.72	173.38	172.72
26	130	176.70	174.05	176.04	174.38	172.72	171.39
27	145	176.70	175.04	176.04	174.05	172.72	172.39
28	0200	176.37	174.71	176.37	175.04	174.71	170.40
29	0215	176.04	175.04	176.37	174.71	173.38	172.06
30	0230	176.37	174.38	176.04	174.71	172.72	170.73

REC #	TIME	DE07	DE08	DE09	DE10	PI01	PI02
1	1915	163.1	166.09	167.75	165.09	64434	64435
2	1930	166.75	166.09	167.41	165.09	64435	64436
3	1945	165.42	165.76	167.75	164.76	64435	64436
4	2000	164.76	166.09	167.08	164.76	64434	64436
5	2015	164.43	165.76	167.41	164.43	64433	64435
6	2030	165.42	165.76	167.08	164.76	64431	64433
7	2045	166.75	165.76	167.08	164.43	64429	64432
8	2100	166.09	166.09	167.41	165.09	64426	64429
9	2115	164.10	165.76	167.41	164.43	64422	64425
10	2130	164.43	166.09	167.41	164.43	64418	64421
11	2145	164.10	166.09	167.41	165.42	64413	64416
12	2200	164.43	166.09	166.75	165.09	64406	64409
13	2215	163.77	165.42	167.08	164.43	64399	64402
14	2230	164.43	165.76	166.75	165.42	64392	64395
15	2245	165.09	166.09	167.08	165.42	64385	64388
16	2300	164.76	165.76	167.08	165.42	64378	64381
17	2315	166.09	165.76	167.08	164.10	64370	64374
18	2330	165.42	166.09	167.05	165.42	64365	64368
19	2345	164.10	165.42	166.75	165.42	64358	64361
20	0000	164.43	165.76	167.41	164.43	64352	64355
21	0015	163.43	165.76	167.08	164.76	64346	64348
22	030	164.43	165.76	167.08	164.43	64342	64344
23	045	165.42	166.09	167.08	164.43	64334	64336
24	0100	165.76	165.76	167.41	165.42	64328	64333
25	115	166.42	166.75	167.41	165.09	64323	64326
26	130	166.09	165.76	167.08	164.76	64317	64320
27	145	165.09	166.09	168.08	164.76	64313	64315
28	0200	165.42	165.76	167.75	165.09	64307	64307
29	0215	165.09	166.09	167.08	165.42	64301	64301
30	0230	163.77	165.76	167.41	165.09	64295	64295

REC #	TIME	TPAV	VPAV	PRAV	MASS
1	1915	92.318	.58	64.43	92094.9
2	1930	92.333	.591	64.431	92078.1
3	1945	92.344	.592	64.431	92075.7
4	2000	92.347	.578	64.43	92094.1
5	2015	92.366	.581	64.429	92085.8
6	2030	92.377	.59	64.427	92067.7
7	2045	92.406	.592	64.426	92058
8	2100	92.405	.587	64.423	92059.9
9	2115	92.429	.589	64.419	92047.5
10	2130	92.444	.586	64.415	92044.4
11	2145	92.44	.591	64.41	92029.8
12	2200	92.429	.582	64.403	92034.6
13	2215	92.427	.58	64.396	92027.4
14	2230	92.41	.589	64.389	92007.2
15	2245	92.41	.586	64.382	92001.4
16	2300	92.416	.591	64.375	91984
17	2315	92.405	.591	64.367	91975.3
18	2330	92.399	.59	64.362	91968.8
19	2345	92.397	.586	64.355	91965.5
20	0	92.388	.584	64.349	91960.7
21	15	92.382	.578	64.342	91960.8
22	30	92.384	.582	64.338	91949.7
23	45	92.386	.585	64.33	91933.8
24	100	92.373	.584	64.326	91929.8
25	115	92.38	.59	64.32	91911.6
26	130	92.35	.584	64.314	91917.1
27	145	92.357	.587	64.309	91904.4
28	200	92.361	.586	64.302	91895.6
29	215	92.353	.587	64.296	91886.3
30	230	92.335	.58	64.29	91890.8