

REACTOR CONTAINMENT BUILDING INTEGRATED LEAK RATE TEST

INCLUDING TYPE A, B AND C
PERIODIC TEST RESULTS

DAVIS- BESSE
NUCLEAR POWER STATION
OAK HARBOR, OHIO
TOLEDO EDISON COMPANY

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I. INTRODUCTION

A periodic Type "A" Integrated Leak Rate Test (ILRT) was performed on the containment structure of the Toledo Edison Company's Davis-Besse Nuclear Power Station (DBNPS) pressurized water reactor in October of 1991. The results of this test were analyzed utilizing the "Total-Time" method. This test was performed for a period of 6.2 hours at a pressure equal to or greater than the calculated peak containment internal pressure related to the design bases accident and specified in the Technical Specifications. This report describes and presents the results of this periodic Type A test including the supplemental test method utilized for verification (Controlled Leak Rate Test or CLRT).

The test results are reported in accordance with the requirements of 10 CFR 50, Appendix J, Section V.B.2., ANSI N45.4-1972 and the intent of ANSI/ANS-56.8-1987.

In addition, Type "B" and "C" test results performed since the last Type "A" test are included in this report (Appendix B) in accordance with the requirements of 10 CFR 50, Appendix J, Section V.B.3.

II. SUMMARY

Prior to performance of the ILRT, Local Leak Rate Tests (LLRTs), were performed to verify containment integrity. These Type "B" and Type "C" tests were performed on containment electrical penetrations, mechanical penetrations, containment isolation valves, fuel transfer tubes, equipment hatch, and air locks. The acceptance criteria for the LLRTs is that the total leakage does not exceed $0.60 (L_p)$ where L_p is the maximum allowable leakage rate at pressure P_p (peak accident pressure) stated as a percent of containment free volume per day (24 hours). The total leakage from these tests was well within this limit, and the results are presented in the official copies of the associated Type B and C surveillance test procedures, DB-PF-03008 (Containment Vessel Local Leakage Rate Test), which are on file at the DBNPS.

At the start of the ILRT, all valves were in their normal position for accident conditions. Exceptions to this valve line-up were identified in the official copy of acceptance test procedure DB-PF-10309 (Containment Integrated Leakage Rate Test), which is also on file at the DBNPS.

II. SUMMARY (Continued)

The first order least-squares fit analysis of the data utilizing the Total-Time method yielded a leak rate of 0.022770% per day with a 95% upper confidence limit of 0.061169% per day. These values are well within the allowable limit of 0.375% per day.

III. TEST DISCUSSION

A. Description of Containment

The containment for the station consists of three basic structures: a steel Containment Vessel, a reinforced concrete Shield Building, and the internal structures. The Containment Vessel is a cylindrical steel pressure vessel with hemispherical dome and ellipsoidal bottom which houses the reactor vessel, reactor coolant piping, pressurizer, pressurizer quench tank and coolers, reactor coolant pumps, steam generators, core flooding tanks, letdown coolers, and normal ventilating systems. It is completely enclosed by a reinforced concrete Shield Building having a cylindrical shape with a shallow dome roof. An annular space is provided between the wall of the Containment Vessel and the Shield Building. There are no structural ties between the Containment Vessel and the Shield Building above the foundation slab. Above this, there is unlimited freedom of differential movement between the Containment Vessel and the Shield Building. The containment internal structures are constructed of reinforced concrete and structural steel. These structures are isolated from the Containment Vessel by steel grating panels with sliding supports which allow free differential

A. Description of Containment (Continued)

movement between the internal structures and the vessel. The internal structures are supported by the massive concrete fill within the Containment Vessel bottom head.

The non-field stress relieved Containment Vessel was constructed in a two-stage operation and in a manner that conforms to the ASME Boiler and Pressure Vessel Code, Article 14, N-1411. The vessel inside diameter is 130 feet and the net free volume is approximately 2,834,000 ft³. The cylindrical shell and bottom head thickness, exclusive of reinforced areas, is 1-1/2" with a dome thickness of 13/16". The 180-ton polar crane is supported from the cylindrical vessel shell by a 14' 6-1/2" deep by 5' 11" wide circular crane girder. Access to the containment is provided by an equipment hatch, a personnel air lock, and an emergency air lock. Electrical and mechanical penetrations are provided for services to the containment.

The Containment Vessel is capable of withstanding an external pressure differential of 0.50 psi in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, UG-28. The Containment Vessel is vented as required to eliminate pressure fluctuations caused

A. Description of Containment (Continued)

by air temperature changes during various operating modes. This is accomplished through ventilation purge connections which are normally closed while the reactor is in operation. Automatic vacuum relief devices are also used to prevent the Containment Vessel from exceeding the external design pressure in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section III, Article 16. Multiple vacuum breakers are used to relieve pressure from the Shield Building into the containment in case the Containment Vessel is subjected to excess external pressure. These valves ensure that external pressure differential on the Containment Vessel does not exceed 0.50 psi.

The reinforced concrete Shield Building was designed in accordance with ACI 307-69, Specification for the Design and Construction of Reinforced Concrete Chimneys, and checked by the Ultimate Strength Design Method in accordance with ACI 318-63. Load combinations specified in ACI 307-69 provide the design basis of the Shield Building. The Shield Building is designed to provide biological shielding during normal operation and from hypothetical accident conditions. The building provides a means for collection and filtration of fission product leakage from the Containment

A. Description of Containment (Continued)

Vessel following a hypothetical accident through the Emergency Ventilation System, an engineered safety feature designed for that purpose. In addition, the building provides environmental protection for the Containment Vessel from adverse atmospheric conditions and external missiles. The Shield Building annulus volume is 678,700 ft³. The Emergency Ventilation System limits the temperature induced pressure transients in the annular space to 6 inches H₂O during a loss of coolant accident (LOCA). Following the initial pressure transient, the annulus pressure is maintained between (-)1/4 and (-)1-1/2 inches water gauge.

The Containment Vessel is designed for the following temperature and pressure conditions:

- Maximum Internal Pressure - 40 psig
- Design Internal Pressure - 36 psig, 264°F maximum
- Leakage Rate Test Pressure - 38 psig
- Negative Pressure - 0.5 psig
- Service Metal Temperature - 30°F
- Maximum Operating Ambient Temperature - 120°F
- Maximum Operating Internal Temperature - 120°F
- Pneumatic Test Pressure is 1.25 Times the Design Pressure - 45 psig

B. Description of Instrumentation

A "state-of-the-art" ILRT instrumentation system was utilized to allow leak rate determination by the "Absolute Method". The primary measurement variables include containment pressure, relative humidity (dewpoint temperature), and dry-bulb temperature as a function of time. The Data Acquisition System or DAS utilized was a Fluke Model 2286. Two DAS devices were utilized with one as a primary while the second was available as a backup. Ancillary measurements include outside ambient temperature and barometric pressure. During the supplemental CLRT, containment verification (fixed-orifice) flow is also measured. Instrument readings were acquired at 15-minute intervals via a data acquisition system. The measurement system schematic is shown in Figure 3. The mass of air (Q) is calculated by the Ideal Gas Law as follows:

$$Q = \frac{P_a V}{RT} = \frac{(P_t - P_{wv}) V}{RT}$$

where: P_a = air partial pressure
 V = free volume
 R = gas constant
 T = temperature
 P_t = total pressure, psia
 P_{wv} = water vapor pressure, psia

B. Description of Instrumentation (Continued)

1. Temperature Instrumentation

Thirty (30) Burns precision platinum resistance temperature detectors (RTDs) were located throughout containment (see Figures 1 and 2) for the determination of the volumetrically weighted average dry-bulb temperature. The specified accuracy of the RTDs is $\pm 0.1^\circ\text{F}$ (60 to 130°F range).

2. Relative Humidity Instrumentation

Ten (10) Phys-Chem precision humidity sensors (RHDs) were located throughout the containment (see Figures 1 and 2) for the determination of the volumetrically weighted average relative humidity. The specified accuracy of each of the sensors is $\pm 2\%$ RH over a range of 0-100% RH.

3. Pressure Instrumentation

Two (2) Paroscientific precision quartz pressure transmitters (0-100 psia) were provided (see Figure 3) for the determination of containment absolute pressure. One pressure transmitter was utilized as a primary while the second was available as a backup. The specified accuracy of each of the transmitters is $\pm 0.02\%$ of full scale.

B. Description of Instrumentation (Continued)

4. Flow Instrumentation

Two (2) Brooks full view rotameters with a range of 0 to 45 scfm were utilized during the supplemental CLRT for verification flow (see Figure 3). One rotameter was utilized as a primary while the second was available as a backup. The specified accuracy of each of the instruments is $\pm 2\%$ of full scale.

5. Ancillary Instrumentation

The outside ambient temperature and barometric pressure were measured utilizing existing site meteorological instruments.

Instrument Sensor Location

<u>Instrument Sensor No.</u>	<u>CTMT Volume Fraction</u>	<u>CTMT Zone</u>	<u>CTMT Azimuth</u>	<u>CTMT Elevation</u>
TEMPERATURE				
RTD-1	0.036962	6	270°	785
RTD-2	0.036962	6	90°	785
RTD-3	0.036962	6	0°	773
RTD-4	0.036962	6	180°	773
RTD-5	0.036961	6	270°	761
RTD-6	0.036962	6	90°	761
RTD-7	0.037477	5	0°	736
RTD-8	0.037477	5	180°	736
RTD-9	0.037476	5	270°	724
RTD-10	0.037477	5	90°	724
RTD-11	0.037476	5	0°	712
RTD-12	0.037476	5	180°	712
RTD-13	0.037477	4	270°	689
RTD-14	0.037477	4	90°	689
RTD-15	0.037476	4	0°	677
RTD-16	0.037477	4	180°	677
RTD-17	0.037476	4	270°	665
RTD-18	0.037476	4	90°	665
RTD-19	0.033933	3	225°	636
RTD-20	0.033933	3	45°	636
RTD-21	0.033933	3	290°	628
RTD-22	0.033933	3	315°	628
RTD-23	0.033934	3	315°	619
RTD-24	0.033933	3	135°	619
RTD-25	0.020819	2	310°	594
RTD-26	0.020819	2	55°	594
RTD-27	0.020818	2	225°	575
RTD-28	0.020818	2	145°	575
RTD-29	0.020819	2	310°	575
RTD-30	0.020819	2	45°	575
RELATIVE HUMIDITY				
RHD-1	0.110886	6	0°	773
RHD-2	0.110885	6	180°	773
RHD-3	0.112430	5	270°	724
RHD-4	0.112429	5	90°	724
RHD-5	0.112430	4	0°	677
RHD-6	0.112429	4	180°	677
RHD-7	0.101799	3	225°	636
RHD-8	0.101800	3	45°	636
RHD-9	0.062456	2	310°	594
RHD-10	0.062456	2	55°	594
PRESSURE				
PT-A	0.500000	N/A	N/A	N/A
PT-B	0.500000	N/A	N/A	N/A

C. Description of Computer Program

The computer program utilized for the performance of the Davis-Besse ILRT is written entirely in C language. It is an interactive system that utilizes the Microsoft Windows operating environment. Windows provides a "shell" that allows programs to run within a window-based user environment and provides sufficient multi-tasking utilizing the latest PC software.

Windows allows multiple programs to operate simultaneously and communicate with each other. This allows the Data Acquisition System (DAS) program to communicate with the ILRT analysis program by passing data in memory and providing a "device independent" way to interface with output devices. Windows includes an intuitive user interface through the use of pull-down menus and provides multiple views of data simultaneously thus allowing real-time updating of displays. All calculations can be performed automatically and all graphs and displays can be updated immediately on the screen upon receipt of new data.

The ILRT program consists of two (2) separate programs. The main program called LEAK.EXE is a data analysis and reporting program. Its "personality" is derived from a

C. Description of Computer Program (Continued)

configuration file. The ILRT program contains the tools required to create and edit the configuration file. The second program called DATAQ.EXE controls and provides interface to the DAS. The main program communicates with the DAS internally through a Windows facility called Dynamic Data Exchange (DDE), allowing a standardized way of communicating while keeping the main program isolated from the actual details of data acquisition. The configuration file specifies all plant-specific information such as number of compartments or zones in containment, number of each type of sensor each compartment contains, individual sensor calibration constants, volume fractions, containment volume, etc. All configuration information is accessible within the program and easily accessed through standard Windows dialog boxes.

Prior to actual test performance, the program allows loop checkout and troubleshooting of data acquisition all the way from the sensor proper to the computer. This validates the configuration file and performs a consistency check. The configuration file validation is automatically performed upon initiation of data acquisition. Once pressurization begins, the Pressurization Monitor allows monitoring of pressurization

C. Description of Computer Program (Continued)

trends until test pressure is achieved. At this point, the Temperature Stabilization window is utilized and determines when stabilization is achieved. This function is formatted exactly like Appendix F of ANSI/ANS-56.8-1987. Once temperature stabilization is achieved, the ILRT start reading or sample number is selected and all leak rate calculations are performed up to the current reading. As subsequent data sets arrive, leak rate calculations are updated automatically. The leakage calculations are performed utilizing both Total-Time and Mass-Point methodologies with Total-Time calculations performed in accordance with BN-TOP-1. Edit provisions exist within this program for failed sensors, corresponding volume fraction redistribution, invalid data sets, etc. All calculations are updated automatically to reflect any changes of this type that are made. In conjunction with this, a continuous calculation of the Instrument Selection Guide (ISG) is performed during the test based upon test duration and number of sensors. This assures the ISG requirement is being met if test duration is reduced and/or unacceptable sensors are eliminated. Upon successful completion of the ILRT, the program calculates a known leak in SCFM equal to L_s for the CLRT. The actual leak that was imposed is manually entered

C. Description of Computer Program (Continued)

and the program calculates the acceptance band for the verification test based upon this value. When all testing is complete and depressurization begins, the Depressurization Monitor allows monitoring of depressurization trends until atmospheric pressure is achieved. Extensive reporting and graphical options exist within the program and are available in hard copy by utilizing the Print option.

Test parameters measured are pressure, dewpoint temperature, and dry-bulb temperature inside the containment. Instrument readings taken by the DAS are recorded on the hard disk of the computer and from these data, the leak rate is calculated. All data, both raw and calculated, can be displayed on the computer monitor. Use of the absolute pressure method as described in ANS N45.4-1972 is the basis for the leakage calculations performed by the ILRT system program. The methodologies utilized are the Total-Time analysis as described in BN-TOP-1 and the Mass-Point analysis as described in ANSI/ANS-56.8-1987.

D. Error Analysis

The instrument system error analysis is based on the Instrument Selection Guide (ISG) formula stated in ANSI/ANS 56.8-1987, "Containment System Leakage Testing Requirements." The ISG value shall not exceed 0.25 L_s. The formula is:

$$ISG = \pm \frac{2400}{t} \left[2 \left(\frac{ep}{P} \right)^2 + 2 \left(\frac{et}{T} \right)^2 + 2 \left(\frac{epv}{P} \right)^2 \right]^{1/4} \% / \text{day}$$

where,

ep = absolute pressure measurement error divided by the square root of the number of sensors

et = dry-bulb temperature measurement error divided by the square root of the number of sensors

epv = vapor pressure measurement error divided by the square root of the number of sensors

P = test pressure

T = test temperature (nominal)

t = test duration in hours

Test Pressure	52.7 psia
Test Temperature	75°F (535°R)
Test Dewpoint	60°F (520°R)
Vapor Pressure	0.00913 psia/°F

$$ISG = \pm \frac{2400}{24} \left[2 \left(\frac{0.0036707}{52.7} \right)^2 + 2 \left(\frac{0.022}{535} \right)^2 + 2 \left(\frac{0.001145}{52.7} \right)^2 \right]^{1/4}$$

ISG (24 hr) = + 0.012 which is <0.125% per day by weight
(25% of L_s)

ISG (6 hr) = + 0.048% per day by weight

E. Description of Tests

The containment was made ready for the ILRT with final inspection, closure, and exclusion areas established at 1500 hours on October 17, 1991. Prior to this, various tasks were completed such as instrument sensor installation, in-situ testing, temperature survey, Type B and C testing, valve line-ups, etc. Various minor problems were encountered and resolved during this period. The details concerning these issues can be found in acceptance test procedure DB-PF-10309, Containment Integrated Leakage Rate Test, and the associated test log which are on file at the DBNPS.

Pressurization of containment commenced at 1800 hours on October 17, 1991, at approximately 9000 cfm with pressure achieved at 0935 hours on October 18, 1991 at 53.01 psia. The average pressurization rate was approximately 2.5 psi/hour. Upon reaching P_a , pressure was decreasing more than anticipated. This was attributed to the fact that containment average ambient temperature prior to close-out was approximately 67°F. As a result, containment average temperature at P_a was being "dragged down" with a corresponding effect on pressure. This created a concern of being at less than P_a prior to actual commencement of the ILRT. To avoid this condition, repressurization recommenced at 1215

E. Description of Tests (Continued)

hours with pressurization secured at 1300 hours at 54.0 psia. Stabilization began at 1330 hours and was satisfactorily completed at 1730 hours.

The ILRT commenced at the exact time stabilization was achieved with time zero at 1730 hours. During this period, data were acquired at 15 minute intervals with one data set deleted at 2245 hours due to apparent "noise" in the system. This noise was attributed to portable radios being utilized for transmission at that time at the ILRT station. As a result, the use of portable radios was banned for the remainder of the test period. The ILRT was satisfactorily completed at 2345 hours with a Total-Time Upper Confidence Limit of 0.061169% per day and a Mass-Point Upper Confidence Limit of 0.034465% per day. Both the Total-Time Upper Confidence Limit and Mass-Point Upper Confidence Limit were well below the 0.75 L_a acceptance criteria.

At 2350 hours, flow for the Controlled Leak Rate Test (CLRT) or verification test was initiated at 35.9 scfm. Following the one hour stabilization period, the CLRT commenced at 0050 hours on October 19, 1991, with data taken at 10 minute intervals. At approximately 0402

E. Description of Tests (Continued)

hours, power was lost to the entire ILRT system due to the transfer of loads off the D2 bus. Power was restored at approximately 0436 hours. As a result, no data were acquired during this period with data acquisition recommencing and the CLRT satisfactorily completed at 0500 hours. The results yielded a Total-Time calculated leak rate of 0.579865% per day and a Mass-Point leak rate of 0.585541% per day. Both the ILRT and CLRT satisfied all the requirements of BN-TOP-1.

Depressurization commenced at 0928 hours and was completed at 1825 hours. Total penalties for Type B and C tests with correction factors per Table 1 of Attachment 6 of DB-PF-10309 equate to 1992.2 sccm or 0.0010097% per day. There were no corrections for water level changes (sumps, Reactor Coolant System, etc.). This equates to a corrected total reported Type A leakage rate of 0.0621787% per day by weight.

IV. RESULTS AND VERIFICATION

The ILRT was conducted for a period of 6.2 hours starting at 1730 hours on October 18, 1991, with a total of 26 samples or data sets taken, and ending at 2345 hours. The results of a calculated least-squares statistical fit of all data revealed a Total-Time leak rate of 0.022770% per day with a 95-percent upper confidence limit of 0.061169% per day. Adding a penalty of 0.00101% per day to account for the Type B and C leakage of applicable penetrations which were not exposed to test pressure yielded a total "As-Left" Type A test result of 0.062179% per day, based on the upper confidence limit.

Following satisfactory completion of the ILRT at P_a , a 4.2 hour CLRT was performed with a total of 21 samples or data sets taken. This test was conducted by superimposing a known fixed-orifice leak approximately equivalent to L_a (0.5% per day) of 35.9 scfm. The calculated Total-Time leak rate for CLRT was 0.579865% per day.

Following valve repairs during the refueling outage, the total Type B and C minimum pathway leakage improvement was 0.00145% per day. Added to the "As-Left" results value above, this yielded an "As-Found" Type A test result of 0.063629% per day.

V. CONCLUSIONS

The Integrated Leak Rate Test at peak accident pressure provided acceptable results as evidenced by the computer printouts in Appendix A of this report. The computed leak rate is well within the specified limit. The acceptance criteria for the ILRT is as follows:

1. The maximum allowable operational leak rate shall not exceed 75% of L_a (0.5% per day) at a pressure of not less than P_a (38.0 psig):

• 0.375% per day

2. The accuracy of the ILRT is verified by a supplemental test (CLRT) where a calibrated leak is imposed on the existing leaks (L_{am}) in the containment system. The superimposed leak rate (L_o) shall be between 75% and 125% of L_a .

<u>ILRT</u>	LEAK RATE (L_{am}) % PER 24 HRS BY WEIGHT	
• Total-Time Analysis	<u>FITTED</u>	<u>95% UCL</u>
	.022770	.061169
<u>CLRT</u>		
• Induced Flow	35.9 scfm (L_a or 0.5%)	

V. CONCLUSIONS (Continued)

LEAK RATE (L)
% PER 24 HRS BY WEIGHT

CLRT

• Total-Time Analysis

0.579865

CLRT LIMITS
% PER 24 HRS BY WEIGHT

CLRT LIMITS

Total-Time Analysis

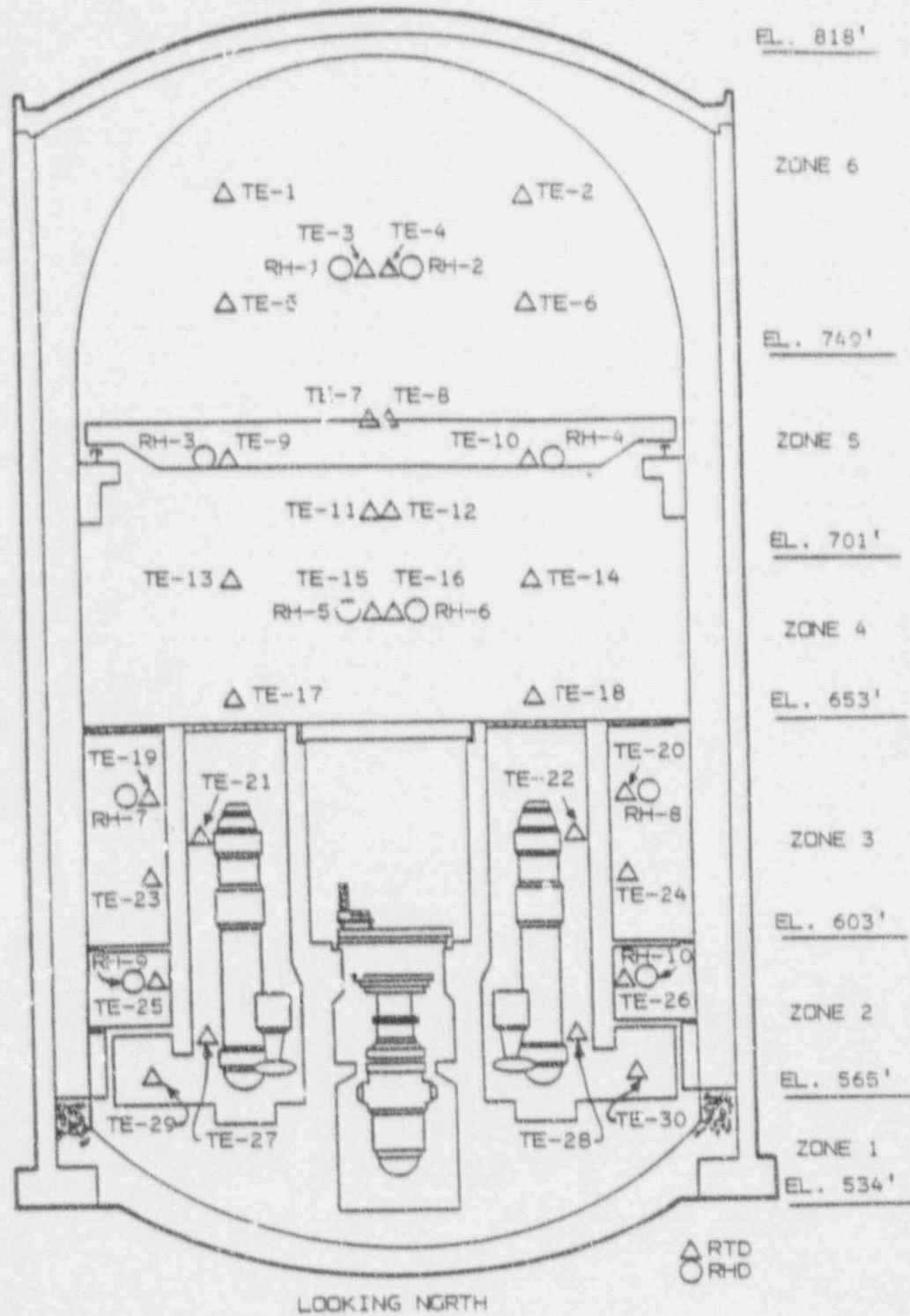
• Upper Limit
• Lower Limit

0.65274
0.40274

The computer-generated reports based upon verified data substantiate for both the ILRT and CLRT that an acceptable test has been performed in accordance with 10 CFR 50, Appendix J, ANSI-N45.4-1972 and the intent of ANSI/ANS-56.8-1987.

The "As-Found" ILR™ result of 0.063629% per day, based on addition of Type B and C leakage improvements to the above ILRT test results, was also acceptable.

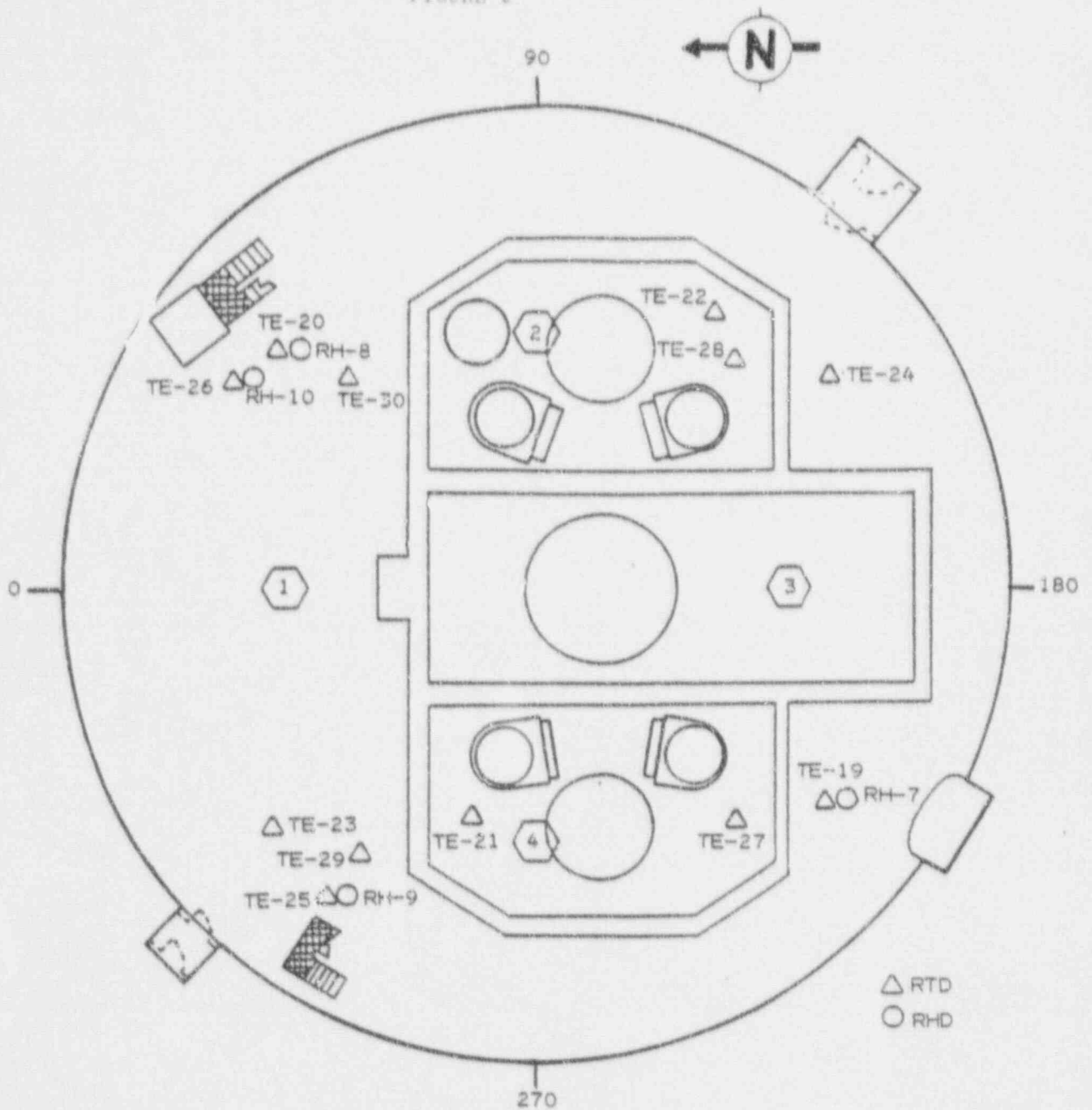
FIGURE 1



ILRT SENSOR LOCATIONS
ELEVATION VIEW

DAVIS-BESSE NUCLEAR POWER STATION

FIGURE 2



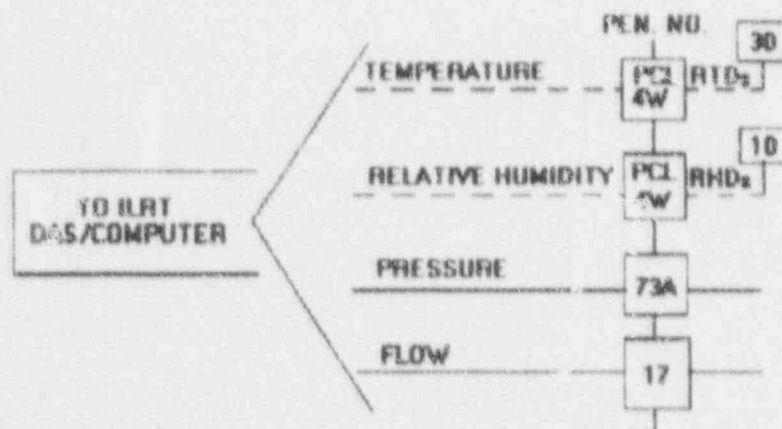
NOTES:

1. STRINGER HANGING FROM SPRAY RING WITH TE-3, 7, 11, 15, AND RH-1, 5
2. STRINGER HANGING FROM SPRAY RING WITH TE-2, 6, 10, 14, 18, AND RH-4
3. STRINGER HANGING FROM SPRAY RING WITH TE-4, 8, 12, 16, AND RH-2, 6
4. STRINGER HANGING FROM SPRAY RING WITH TE-1, 5, 9, 13, 17, AND RH-3

ILRT SENSOR LOCATIONS
PLAN VIEW

DAVIS-BESSE NUCLEAR POWER STATION

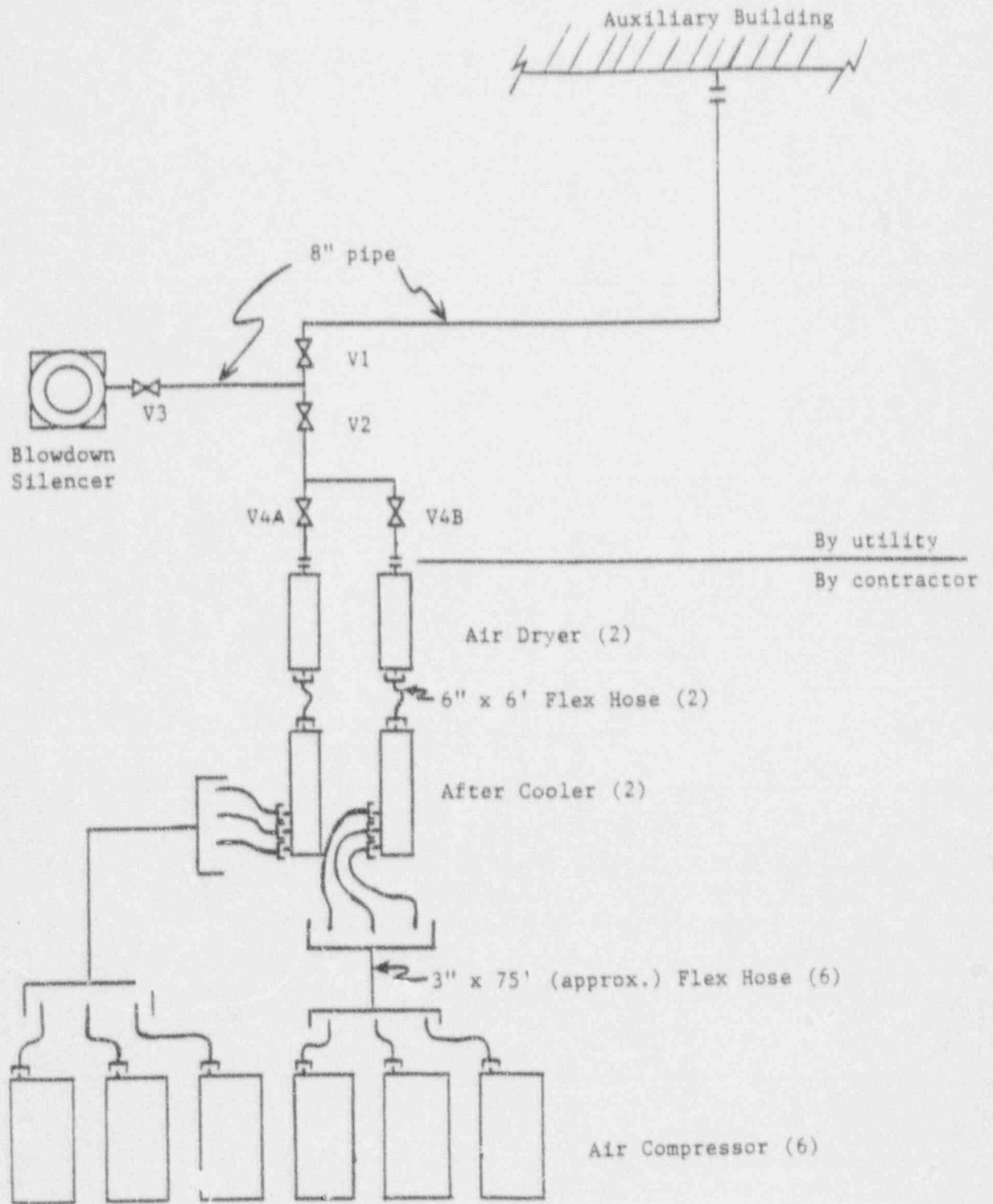
FIGURE 3



**ILRT INSTRUMENTATION
SCHEMATIC**

DAVIS-BESSE NUCLEAR POWER STATION

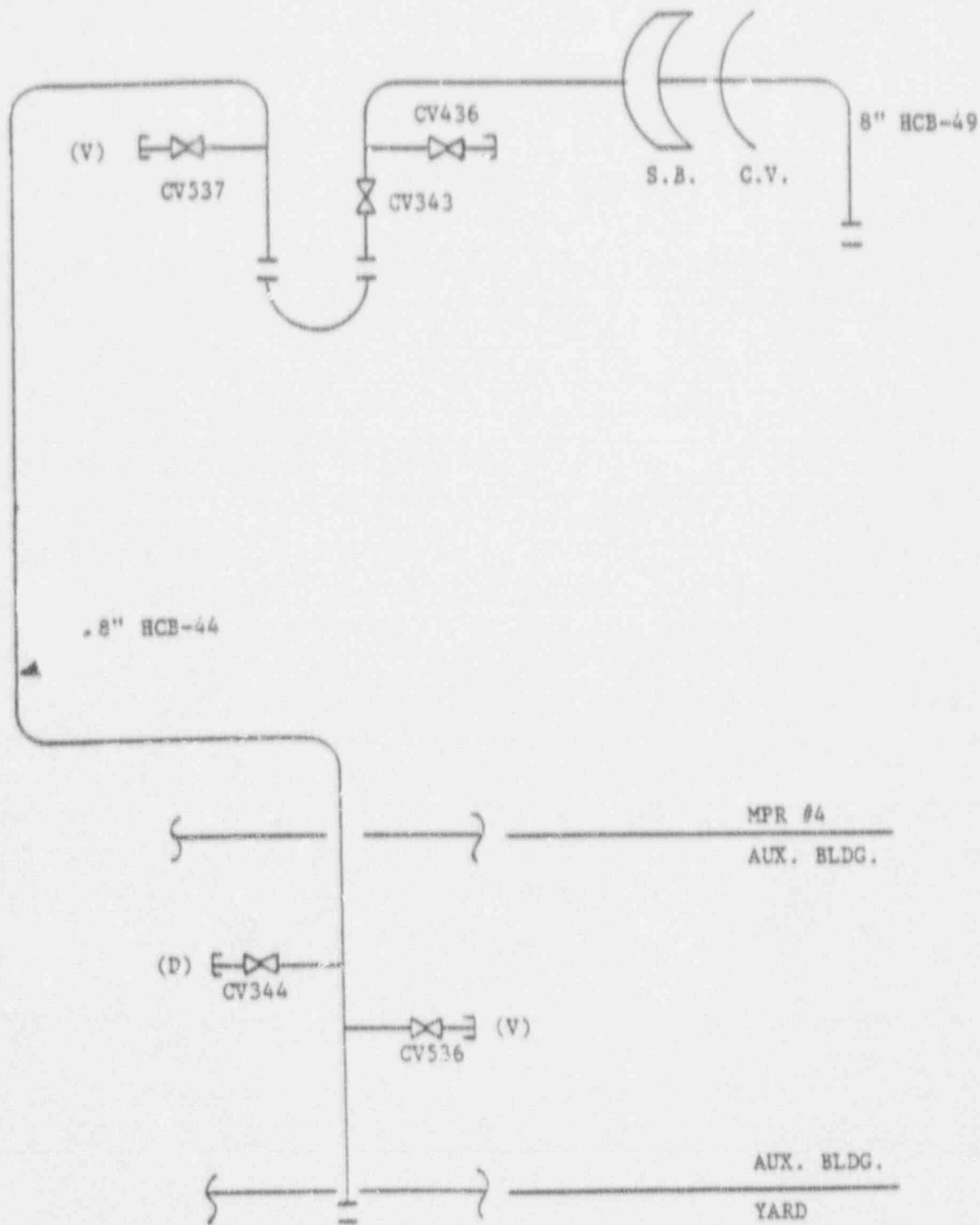
FIGURE 4



OUTSIDE PIPING/EQUIPMENT SETUP

(TYPICAL)

FIGURE 5



INSIDE PIPING LAYOUT

APPENDIX A

Computer Generated Report for
Integrated Leak Rate Test (ILRT)

BN-TOP-1 Temperature Stabilization

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

TIME	TEMP	AVE. DT OVER LAST 2 HOURS	RATE OF DT CHANGE OVER LAST 2 HOURS
t	T	$\frac{ T_t - T_{t-2} }{2}$	
HOURS	°F	°F/HR	°F/HR/HR
13:30	73.443		
14:31	72.252		
15:31	71.661	0.891	0.600
16:30	71.250	0.503	0.177
17:30	70.931	0.366	0.098

Containment Calculated Values

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

RDG	TIME	MASS	TEMP	VAPOR PRESS	PRESSURE
79	13:30:58	769858.32	73.443	0.2077	53.8618
80	13:45:59	769921.29	73.023	0.2066	53.8227
81	14:00:59	769969.82	72.709	0.2049	53.7928
82	14:16:00	769985.55	72.461	0.2046	53.7687
83	14:31:00	769997.19	72.252	0.2049	53.7487
84	14:46:01	769995.50	72.076	0.2051	53.7311
85	15:01:01	769983.12	71.927	0.2054	53.7155
86	15:16:02	769975.39	71.792	0.2056	53.7016
87	15:31:02	769977.37	71.661	0.2058	53.6887
88	15:46:03	739979.85	71.544	0.2056	53.6770
89	16:01:03	769963.20	71.439	0.2060	53.6657
90	16:16:04	769962.76	71.338	0.2060	53.6554
91	16:30:24	769965.81	71.250	0.2052	53.6460
92	16:45:35	769939.26	71.165	0.2062	53.6366
93	17:00:35	769941.70	71.071	0.2066	53.6276
94	17:15:36	769921.08	70.997	0.2070	53.6192
95	17:30:36	769906.86	70.931	0.2073	53.6119

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Page 1 of 6

Reading # 79 - Oct 18 13:30:58

Pressures (psia)

1.. 2 53.865 53.858

Dew Points (volts)

1.. 8 2.694 2.6856 2.6628 2.6476 2.4785 2.3685 2.3799 2.3631
9..10 2.5821 2.543

Temperatures (ohms)

1.. 8 109.35 109.4 109.38 109.36 109.37 109.35 109.3 109.3
9..16 109.31 109.33 109.35 109.32 109.15 108.26 109.04 109.13
17..24 109.03 109.04 108.78 108.77 108.77 108.77 108.77 108.73
25..30 108.55 108.55 108.35 108.4 108.27 108.33

Reading # 80 - Oct 18 13:45:59

Pressures (psia)

1.. 2 53.826 53.819

Dew Points (volts)

1.. 8 2.7188 2.7043 2.6659 2.6538 2.5537 2.361 2.4064 2.39
9..10 2.5953 2.5715

Temperatures (ohms)

1.. 8 109.21 109.25 109.25 109.23 109.23 109.21 109.18 109.19
9..16 109.19 109.22 109.22 109.2 109.03 109.12 108.92 109.01
17..24 108.93 108.93 108.74 108.73 108.74 108.73 108.73 108.69
25..30 108.54 108.54 108.34 108.4 108.28 108.33

Reading # 81 - Oct 18 14:00:59

Pressures (psia)

1.. 2 53.796 53.79

Dew Points (volts)

1.. 8 2.7292 2.7266 2.6843 2.6823 2.4623 2.3629 2.4359 2.4218
9..10 2.6163 2.572

Temperatures (ohms)

1.. 8 109.1 109.14 109.15 109.12 109.13 109.11 109.08 109.09
9..16 109.11 109.12 109.13 109.09 108.93 109.02 108.84 108.91
17..24 108.87 108.86 108.72 108.71 108.72 108.7 108.72 108.68
25..30 108.53 108.53 108.33 108.4 108.27 108.33

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 82 - Oct 18 14:16:00

Pressures (psia)

1.. 2 53.772 53.765

Dew Points (volts)

1.. 8 2.7436 2.7487 2.7014 2.6981 2.4741 2.3793 2.4604 2.4474
9..10 2.6484 2.5829

Temperatures (ohms)

1.. 8 109.01 109.05 109.06 109.04 109.04 109.01 109 109.02
9..16 109.03 109.04 109.06 109.01 108.84 108.94 108.78 108.84
17..24 108.84 108.81 108.71 108.69 108.7 108.69 108.71 108.66
25..30 108.53 108.53 108.33 108.4 108.28 108.33

Reading # 83 - Oct 18 14:31:00

Pressures (psia)

1.. 2 53.752 53.745

Dew Points (volts)

1.. 8 2.7624 2.7654 2.716 2.7175 2.4957 2.4099 2.4874 2.4695
9..10 2.6621 2.5986

Temperatures (ohms)

1.. 8 108.93 108.97 108.98 108.97 108.97 108.94 108.94 108.95
9..16 108.97 108.97 108.99 108.94 108.77 108.86 108.74 108.8
17..24 108.8 108.78 108.7 108.68 108.69 108.67 108.69 108.65
25..30 108.52 108.52 108.33 108.4 108.28 108.34

Reading # 84 - Oct 18 14:46:01

Pressures (psia)

1.. 2 53.735 53.727

Dew Points (volts)

1.. 8 2.7815 2.7862 2.7316 2.7354 2.5126 2.435 2.5102 2.4913
9..10 2.668 2.6039

Temperatures (ohms)

1.. 8 108.87 108.91 108.91 108.9 108.91 108.88 108.89 108.89
9..16 108.91 108.92 108.93 108.88 108.71 108.78 108.71 108.77
17..24 108.78 108.75 108.69 108.66 108.68 108.67 108.68 108.64
25..30 108.52 108.52 108.33 108.39 108.28 108.34

Raw Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 85 - Oct 18 15:01:01

Pressures (psia)									
1.. 2	53.719	53.712							
Dew Points (volts)									
1.. 8	2.7967	2.801	2.7474	2.7519	2.529	2.4601	2.5306	2.5088	
9..10	2.6716	2.6086							
Temperatures (ohms)									
1.. 8	108.81	108.85	108.86	108.85	108.85	108.82	108.83	108.84	
9..16	10.. '6	108.86	108.87	108.83	108.69	108.75	108.69	108.75	
17..24	108.76	108.73	108.67	108.65	108.67	108.66	108.66	108.63	
25..30	108.52	108.52	108.33	108.39	108.27	108.34			

Reading # 86 - Oct 18 15:16:02

Pressures (psia)									
1.. 2	53.705	53.698							
Dew Points (volts)									
1.. 8	2.8138	2.8193	2.7598	2.7598	2.5427	2.4983	2.5485	2.5251	
9..10	2.6763	2.6186							
Temperatures (ohms)									
1.. 8	108.76	108.8	108.81	108.79	108.8	108.77	108.79	108.79	
9..16	108.81	108.81	108.82	108.79	108.67	108.73	108.67	108.7	
17..24	108.75	108.71	108.66	108.64	108.66	108.65	108.65	108.62	
25..30	108.51	108.51	108.33	108.39	108.28	108.34			

Reading # 87 - Oct 18 15:31:02

Pressures (psia)									
1.. 2	53.692	53.685							
Dew Points (volts)									
1.. 8	2.8298	2.8335	2.7703	2.781	2.5572	2.5158	2.5637	2.5388	
9..10	2.6844	2.6^56							
Temperatures (ohms)									
1.. 8	108.71	108.74	108.76	108.75	108.76	108.72	108.74	108.74	
9..16	108.76	108.77	108.77	108.74	108.65	108.7	108.65	108.68	
17..24	108.73	108.7	108.64	108.63	108.65	108.64	108.64	108.61	
25..30	108.51	108.5	108.32	108.39	108.28	108.35			

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 88 - Oct 18 15:46:03

Pressures (psia)

1.. 2 53.68 53.674

Dew Points (volts)

1.. 8 2.8392 2.8472 2.781 2.7757 2.5684 2.5331 2.5762 2.55
9..10 2.6896 2.6324

Temperatures (ohms)

1.. 8 108.67 108.7 108.72 108.7 108.71 108.68 108.69 108.7
9..16 108.71 108.72 108.73 108.7 108.64 108.68 108.63 108.67
17..24 108.72 108.68 108.63 108.61 108.64 108.63 108.63 108.6
25..30 108.51 108.5 108.33 108.38 108.28 108.35

Reading # 89 - Oct 18 16:01:03

Pressures (psia)

1.. 2 53.669 53.662

Dew Points (volts)

1.. 8 2.8559 2.8633 2.7906 2.7946 2.5781 2.5553 2.5942 2.5659
9..10 2.6992 2.6408

Temperatures (ohms)

1.. 8 108.62 108.66 108.67 108.66 108.67 108.64 108.65 108.65
9..16 108.67 108.68 108.7 108.65 108.63 108.67 108.62 108.66
17..24 108.71 108.67 108.62 108.61 108.63 108.63 108.62 108.59
25..30 108.5 108.49 108.33 108.38 108.28 108.35

Reading # 90 - Oct 18 16:16:04

Pressures (psia)

1.. 2 53.659 53.652

Dew Points (volts)

1.. 8 2.8605 2.8713 2.7862 2.7976 2.5928 2.5662 2.6135 2.5767
9..10 2.7107 2.6464

Temperatures (ohms)

1.. 8 108.58 108.62 108.63 108.62 108.63 108.6 108.61 108.61
9..16 108.63 108.65 108.67 108.62 108.61 108.66 108.61 108.65
17..24 108.69 108.66 108.61 108.59 108.63 108.61 108.61 108.58
25..30 108.5 108.42 108.33 108.38 108.28 108.36

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 91 - Oct 18 16:30:24

Pressures (psia)

1.. 2 53.649 53.643

Dew Points (volts)

1.. 8 2.8593 2.8791 2.7661 2.7338 2.6098 2.5855 2.6304 2.5925
9..10 2.7214 2.6553

Temperatures (ohms)

1.. 8 108.54 108.58 108.59 108.58 108.6 108.56 108.57 108.58
9..16 108.6 108.6 108.63 108.6 108.61 108.65 108.59 108.64
17..24 108.69 108.65 108.6 108.58 108.62 108.61 108.61 108.58
25..30 108.49 108.48 108.33 108.39 108.28 108.36

Reading # 92 - Oct 18 16:45:35

Pressures (psia)

1.. 2 53.64 53.633

Dew Points (volts)

1.. 8 2.8407 2.8773 2.7564 2.763 2.692 2.6148 2.6594 2.6104
9..10 2.7426 2.6658

Temperatures (ohms)

1.. 8 108.51 108.55 108.55 108.54 108.56 108.52 108.54 108.55
9..16 108.57 108.58 108.61 108.57 108.59 108.64 108.59 108.63
17..24 108.67 108.64 108.6 108.58 108.61 108.6 108.6 108.57
25..30 108.49 108.47 108.33 108.38 108.28 108.36

Reading # 93 - Oct 18 17:00:35

Pressures (psia)

1.. 2 53.631 53.624

Dew Points (volts)

1.. 8 2.8379 2.8534 2.7825 2.7683 2.7073 2.6563 2.6831 2.6359
9..10 2.7591 2.6817

Temperatures (ohms)

1.. 8 108.48 108.51 108.53 108.51 108.53 108.5 108.51 108.52
9..16 108.54 108.55 108.58 108.53 108.57 108.62 108.57 108.62
17..24 108.66 108.62 108.57 108.56 108.61 108.6 108.58 108.55
25..30 108.48 108.46 108.33 108.38 108.28 108.36

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 94 - Oct 18 17:15:36

Pressures (psia)									
1.. 2	53.623	53.616							
Dew Points (volts)									
1.. 8	2.8394	2.8519	2.7759	2.7773	2.7235	2.6851	2.6972	2.6641	
9..10	2.7864	2.7052							
Temperatures (ohms)									
1.. 8	108.45	108.48	108.5	108.48	108.51	108.47	108.5	108.5	
9..16	108.52	108.53	108.55	108.52	108.54	108.6	108.55	108.61	
17..24	108.64	108.6	108.57	108.55	108.6	108.6	108.57	108.55	
25..30	108.48	108.45	108.33	108.38	108.28	108.36			

Reading # 95 - Oct 18 17:30:36

Pressures (psia)									
1.. 2	53.615	53.608							
Dew Points (volts)									
1.. 8	2.8381	2.8486	2.7802	2.7809	2.7267	2.6966	2.7137	2.6953	
9..10	2.7982	2.7289							
Temperatures (ohms)									
1.. 6	108.43	108.47	108.49	108.46	108.49	108.46	108.48	108.47	
9..16	108.5	108.51	108.54	108.5	108.52	108.58	108.53	108.59	
17..24	108.62	108.58	108.56	108.54	108.59	108.59	108.56	108.53	
25..30	108.47	108.45	108.33	108.39	108.29	108.37			

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 79 - Oct 18 13:30:58

Pressures (PSIA)

1.. 2 53.865 53.858

Dew Points (°F)

1.. 8 57.038 56.869 56.533 56.485 53.493 52.424 51.245 51.125
9..10 52.361 52.172

Temperatures (°F)

1.. 8 74.863 74.895 74.847 74.758 74.789 74.863 74.679 74.65
9..16 74.65 74.77 74.728 74.771 73.979 74.255 73.489 73.672
17..24 73.126 73.34 72.237 72.315 72.132 72.219 72.013 72.023
25..30 71.046 71.29 70.096 70.557 69.733 70.072

Reading # 80 - Oct 18 13:45:59

Pressures (PSIA)

1.. 2 53.826 53.819

Dew Points (°F)

1.. 8 56.74 56.51 56.057 56.084 53.804 51.837 51.377 51.264
9..10 52.457 52.432

Temperatures (°F)

1.. 8 74.221 74.209 74.252 74.163 74.148 74.221 74.13 74.147
9..16 74.101 74.266 74.133 74.221 73.429 73.614 72.939 73.122
17..24 72.669 72.836 72.053 72.132 71.995 72.036 71.83 71.84
25..30 71 71.244 70.05 70.557 69.779 70.072

Reading # 81 - Oct 18 14:00:59

Pressures (PSIA)

1.. 2 53.796 53.79

Dew Points (°F)

1.. 8 56.421 56.27 55.908 55.955 52.474 51.441 51.622 51.538
9..10 52.634 52.395

Temperatures (°F)

1.. 8 73.718 73.706 73.794 73.66 73.69 73.763 73.672 73.689
9..16 73.735 73.807 73.721 73.718 72.972 73.157 72.572 72.664
17..24 72.394 72.516 71.962 72.041 71.903 71.898 71.784 71.794
25..30 70.954 71.198 70.004 70.557 69.733 70.072

Calibrated Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 82 - Oct 18 14:16:00

Pressures (PSIA)

1.. 2 53.772 53.765

Dew Points (°F)

1.. 8 56.184 56.153 55.744 55.777 52.352 51.335 51.851 51.738
9..10 52.966 52.51

Temperatures (°F)

1.. 8 73.305 73.294 73.382 73.294 73.279 73.305 73.305 73.368
9..16 73.368 73.441 73.401 73.351 72.56 72.791 72.298 72.343
17..24 72.257 72.287 71.916 71.949 71.812 71.852 71.738 71.702
25..30 70.954 71.198 70.004 70.557 69.779 70.072

Reading # 83 - Oct 18 14:31:00

Pressures (PSIA)

1.. 2 53.752 53.745

Dew Points (°F)

1.. 8 56.032 56.023 55.637 55.677 52.42 51.514 52.105 51.94
9..10 53.064 52.632

Temperatures (°F)

1.. 8 72.939 72.928 73.015 72.974 72.958 72.985 73.03 73.048
9..16 73.094 73.12 73.08 73.03 72.239 72.425 72.114 72.16
17..24 72.074 72.15 71.87 71.903 71.766 71.761 71.647 71.656
25..30 70.908 71.153 70.004 70.557 69.779 70.118

Reading # 84 - Oct 18 14:46:01

Pressures (PSIA)

1.. 2 53.735 53.727

Dew Points (°F)

1.. 8 55.924 55.932 55.54 55.645 52.477 51.668 52.311 52.034
9..10 53.124 52.688

Temperatures (°F)

1.. 8 72.664 72.653 72.695 72.653 72.684 72.71 72.801 72.773
9..16 72.819 72.891 72.806 72.756 71.964 72.058 71.977 72.023
17..24 71.982 72.013 71.824 71.812 71.72 71.761 71.601 71.611
25..30 70.908 71.153 70.004 70.511 69.779 70.118

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 85 - Oct 18 15:01:01

Pressures (PSIA)								
1.. 2	53.719	53.712						
Dew Points (°F)								
1.. 8	55.861	55.865	55.487	55.556	52.57	51.862	52.446	52.242
9..10	53.161	52.737						
Temperatures (°F)								
1.. 8	72.389	72.379	72.466	72.425	72.409	72.435	72.527	72.544
9..16	72.59	72.616	72.531	72.527	71.873	71.921	71.885	71.931
17..24	71.891	71.921	71.733	71.766	71.675	71.715	71.509	71.565
25..30	70.908	71.153	70.004	70.511	69.733	70.118		

Reading # 86 - Oct 18 15:16:02

Pressures (PSIA)								
1.. 2	53.705	53.698						
Dew Points (°F)								
1.. 8	55.816	55.789	55.398	55.422	52.632	52.07	52.596	52.376
9..10	53.166	52.799						
Temperatures (°F)								
1.. 8	72.16	72.15	72.237	72.15	72.18	72.206	72.343	72.315
9..16	72.361	72.387	72.302	72.343	71.781	71.83	71.794	71.702
17..24	71.845	71.83	71.687	71.72	71.629	71.669	71.464	71.519
25..30	70.863	71.107	70.004	70.511	69.779	70.118		

Reading # 87 - Oct 18 15:31:02

Pressures (PSIA)								
1.. 2	53.692	53.685						
Dew Points (°F)								
1.. 8	55.759	55.757	55.29	55.462	52.702	52.175	52.673	52.481
9..10	53.249	52.829						
Temperatures (°F)								
1.. 8	71.931	71.875	72.008	71.967	71.997	71.977	72.114	72.087
9..16	72.132	72.204	72.074	72.114	71.69	71.692	71.702	71.611
17..24	71.753	71.784	71.595	71.674	71.583	71.623	71.418	71.473
25..30	70.863	71.061	69.958	70.511	69.779	70.164		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 88 - Oct 18 15:46:03

		Pressures (PSIA)							
1.. 2	53.68	53.674							
		Dew Points (°F)							
1.. 8	55.679	55.676	55.183	55.196	52.737	52.319	52.763	52.516	
9..10	53.301	52.899							
		Temperatures (°F)							
1.. 8	71.748	71.692	71.824	71.738	71.769	71.794	71.885	71.903	
9..16	71.903	71.975	71.891	71.931	71.644	71.601	71.611	71.565	
17..24	71.708	71.693	71.55	71.583	71.537	71.577	71.372	71.427	
25..30	70.863	71.061	70.004	70.466	69.779	70.164			

Reading # 89 - Oct 18 16:01:03

		Pressures (PSIA)							
1.. 2	53.669	53.662							
		Dew Points (°F)							
1.. 8	55.627	55.661	55.107	55.212	52.797	52.514	52.91	52.685	
9..10	53.356	52.944							
		Temperatures (°F)							
1.. 8	71.519	71.509	71.595	71.555	71.586	71.611	71.702	71.675	
9..16	71.72	71.791	71.753	71.702	71.598	71.555	71.565	71.519	
17..24	71.662	71.647	71.504	71.583	71.491	71.577	71.326	71.382	
25..30	70.817	71.015	70.004	70.466	69.779	70.164			

Reading # 90 - Oct 18 16:16:04

		Pressures (PSIA)							
1.. 2	53.659	53.652							
		Dew Points (°F)							
1.. 8	55.5	55.567	54.893	55.114	52.91	52.587	53.07	52.715	
9..10	53.472	52.959							
		Temperatures (°F)							
1.. 8	71.336	71.326	71.412	71.372	71.403	71.427	71.519	71.491	
9..16	71.537	71.654	71.616	71.565	71.507	71.509	71.519	71.473	
17..24	71.57	71.601	71.458	71.491	71.491	71.486	71.281	71.336	
25..30	70.817	70.969	70.004	70.466	69.779	70.21			

Calibrated Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 91 - Oct 18 16:30:24

Pressures (PSIA)

1.. 2 53.649 53.643

Dew Points (°F)

1.. 8 55.318 55.471 54.567 54.268 53.003 52.749 53.203 52.839
9..10 53.537 53.051

Temperatures (°F)

1.. 8 71.153 71.143 71.229 71.189 71.265 71.244 71.336 71.354
9..16 71.4 71.425 71.433 71.473 71.507 71.464 71.427 71.427
17..24 71.57 71.555 71.412 71.446 71.446 71.486 71.281 71.336
25..30 70.771 70.969 70.004 70.511 69.779 70.21

Reading # 92 - Oct 18 16:45:35

Pressures (PSIA)

1.. 2 53.64 53.633

Dew Points (°F)

1.. 8 54.968 55.282 54.343 54.474 53.849 53.013 53.502 53.026
9..10 53.749 53.116

Temperatures (°F)

1.. 8 71.015 71.006 71.046 71.006 71.082 71.061 71.198 71.217
9..16 71.263 71.333 71.342 71.336 71.415 71.418 71.427 71.382
17..24 71.479 71.51 71.412 71.446 71.4 71.44 71.235 71.29
25..30 70.771 70.924 70.004 70.466 69.779 70.21

Reading # 93 - Oct 18 17:00:35

Pressures (PSIA)

1.. 2 53.631 53.624

Dew Points (°F)

1.. 8 54.855 54.925 54.473 54.399 53.919 53.4 53.617 53.206
9..10 53.87 53.235

Temperatures (°F)

1.. 8 70.878 70.823 70.954 70.869 70.945 70.969 71.061 71.079
9..16 71.125 71.196 71.204 71.153 71.324 71.326 71.336 71.336
17..24 71.433 71.418 71.275 71.354 71.4 71.44 71.143 71.198
25..30 70.725 70.878 70.004 70.466 69.779 70.21

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 94 - Oct 18 17:15:36

Pressures (PSIA)

1.. 2 53.623 53.616

Dew Points (°F)

1.. 8 54.741 54.782 54.323 54.402 53.997 53.652 53.76 53.454
9..10 54.14 53.431

Temperatures (°F)

1.. 8 70.74 70.686 70.817 70.732 70.854 70.832 71.015 70.988
9..16 71.034 71.104 71.067 71.107 71.186 71.235 71.244 71.29
17..24 71.342 71.326 71.275 71.308 71.354 71.44 71.098 71.198
25..30 70.725 70.832 70.004 70.466 69.779 70.21

Reading # 95 - Oct 18 17:30:36

Pressures (PSIA)

1.. 2 53.615 53.608

Dew Points (°F)

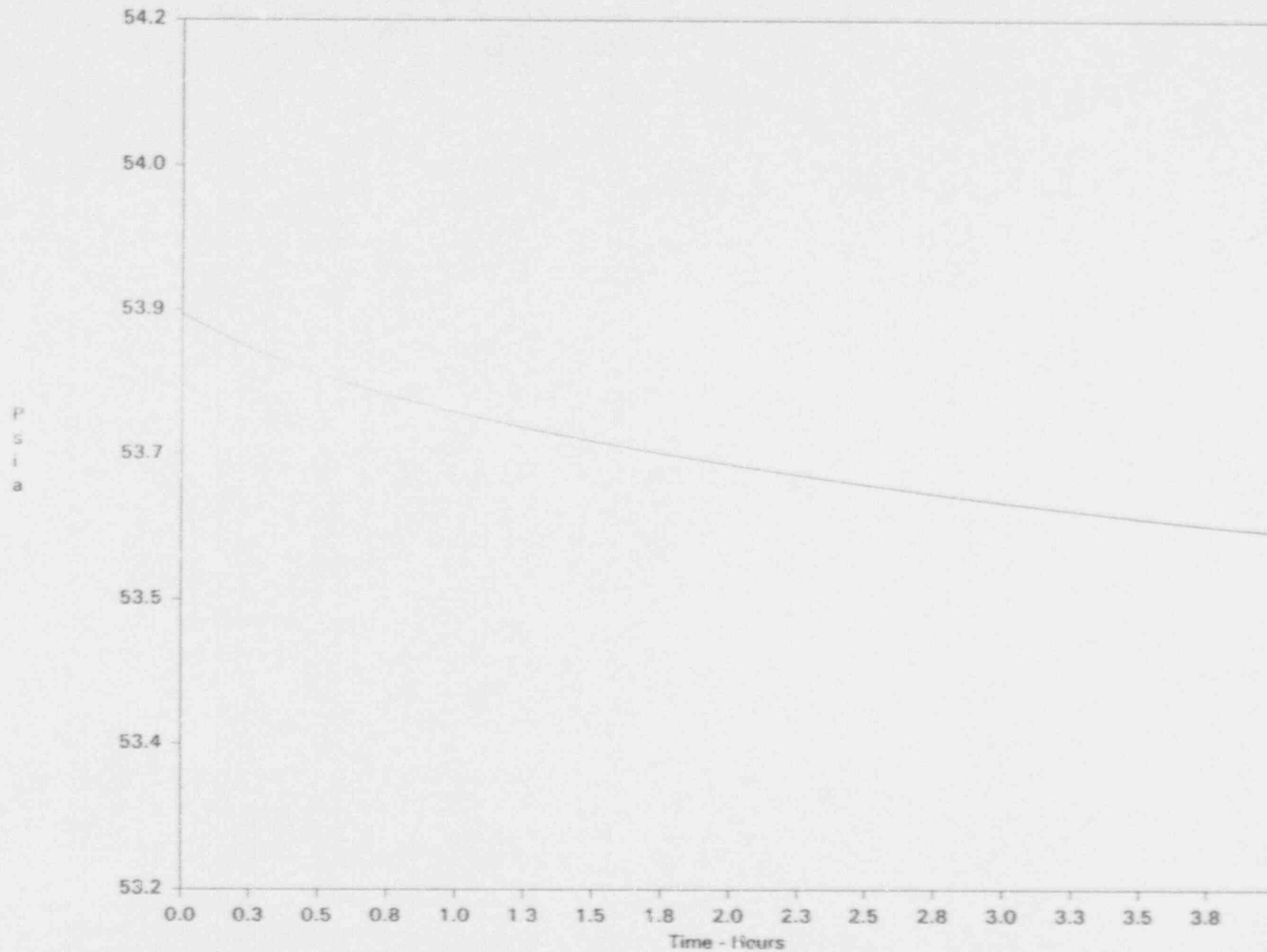
1.. 8 54.686 54.665 54.28 54.353 53.944 53.684 53.885 53.73
9..10 54.213 53.669

Temperatures (°F)

1.. 8 70.649 70.64 70.771 70.64 70.762 70.786 70.924 70.951
9..16 70.942 71.012 71.021 71.015 71.095 71.143 71.153 71.198
17..24 71.25 71.235 71.229 71.262 71.308 71.394 71.052 71.107
25..30 70.679 70.832 70.004 70.511 69.824 70.255

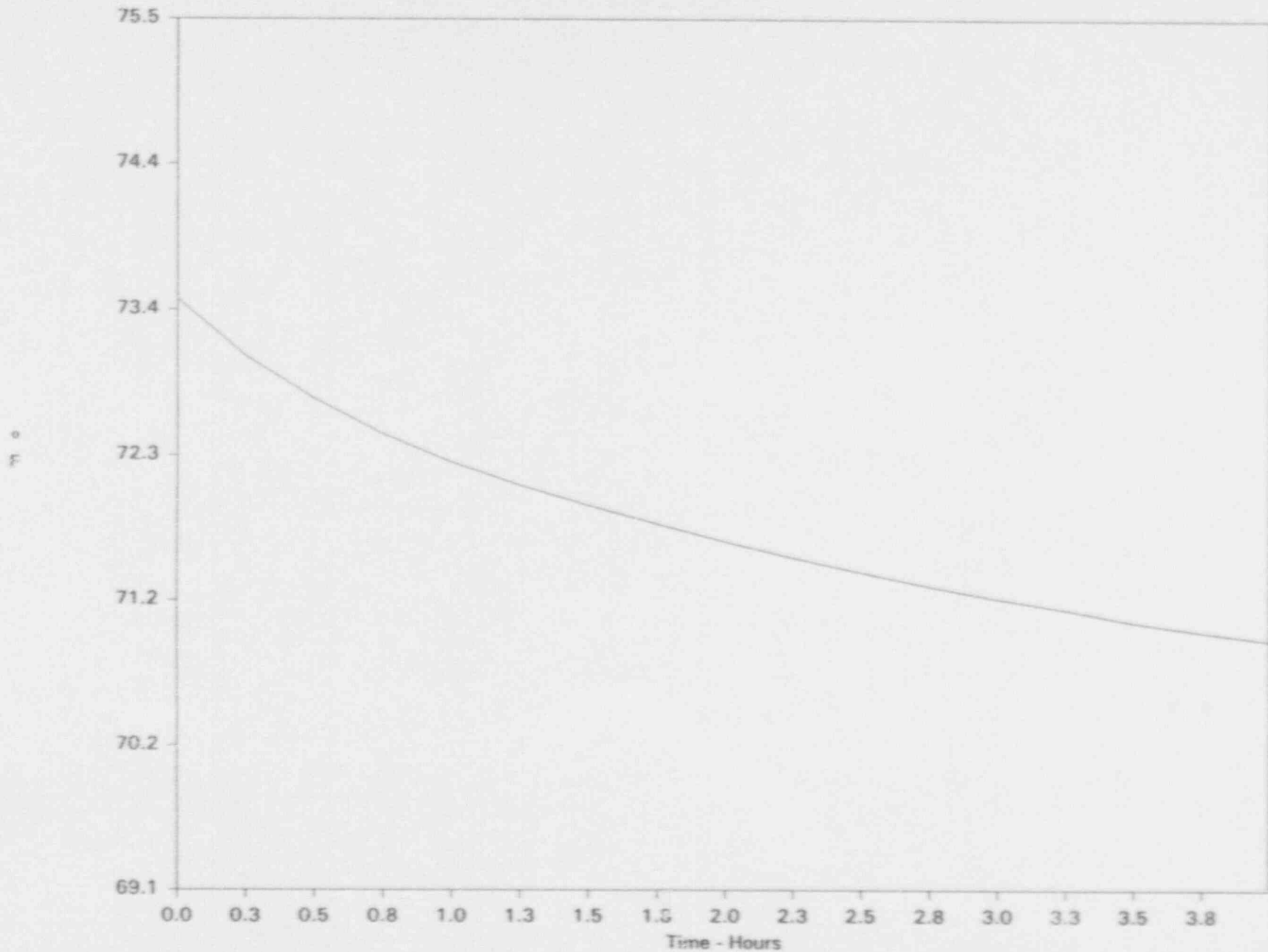
Average Pressure

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



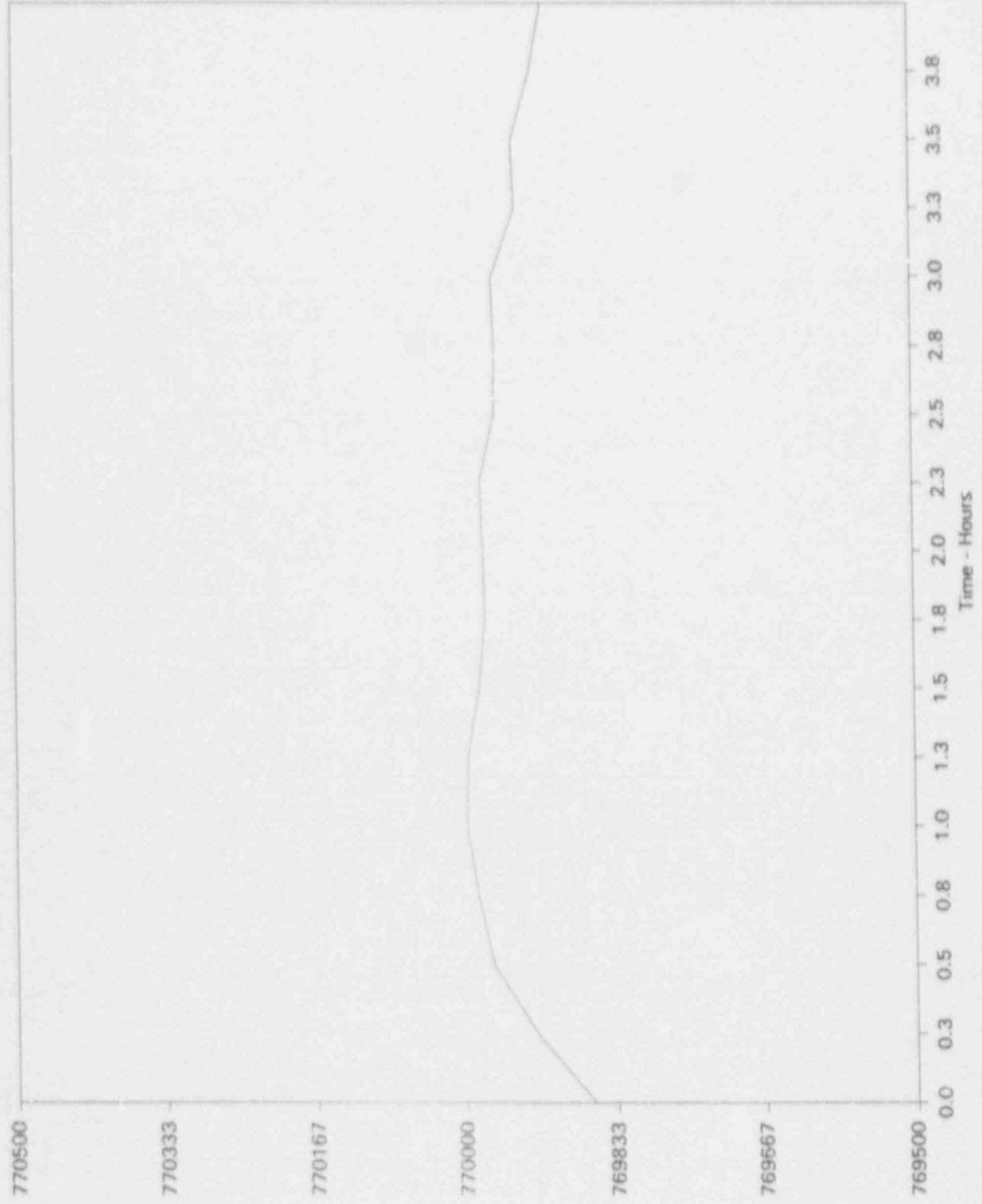
Average Temperature

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



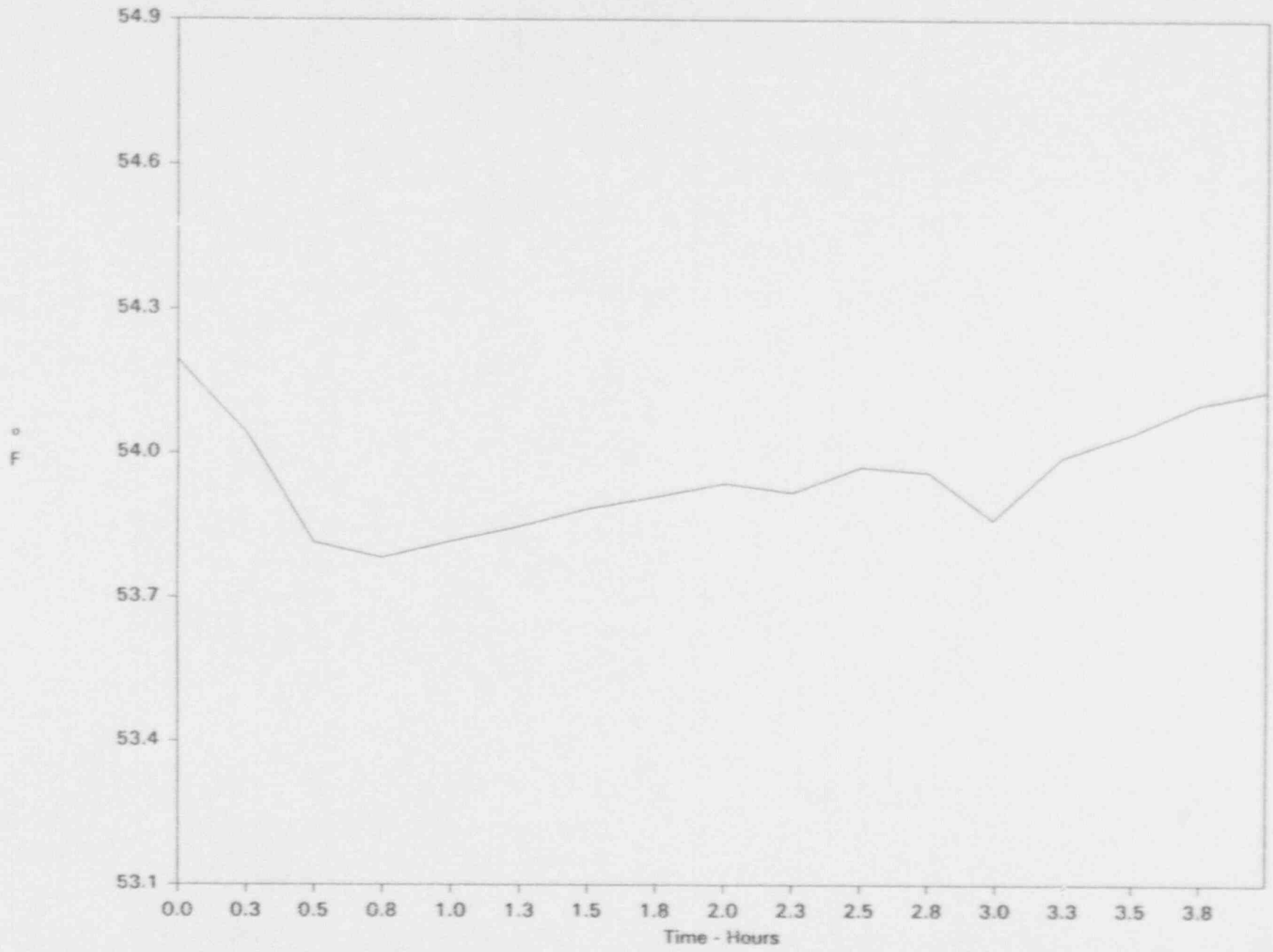
Containment Mass

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

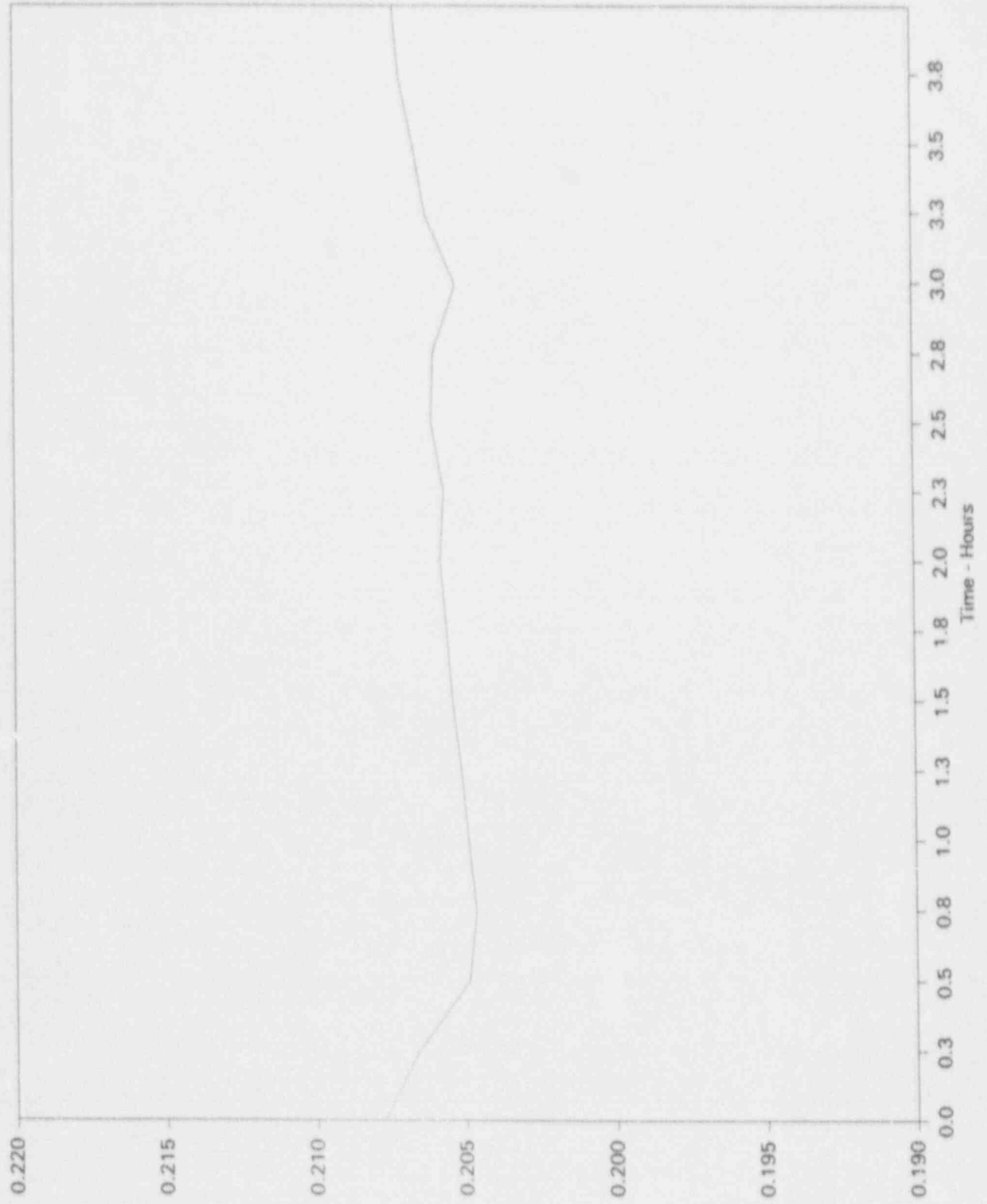


f
b
m

Average Dew Point
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Average Vapor Pressure
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



P
S
i
a

BN-TOP-1 Termination Criteria

DAVIS-BESSE NUCLEAR POWER STATION

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BN-TOP-1 Termination Criteria Evaluation for Reading # 120

1. The Trend Report based on Total Time calculations shall indicate that the magnitude of the calculated leak rate is tending to stabilize at a value less than the maximum allowable leak rate ($< .75L_a$).

Required Value: 0.375000 %/day Actual Value: 0.022770 %/day

(Note: The magnitude of the calculated leak rate may be increasing slightly as it tends to stabilize. In this case the average rate of increase of the calculated leak rate shall be determined from the accumulated data over the last five hours or last twenty data points, whichever provides the most points. Using this average rate the calculated leak rate can then be linearly extrapolated to the 24th hour data point. If this extrapolated value of the calculated leak rate exceeds 75% of the maximum allowable leak rate (L_a) then the leak rate test is continued.)

Required Value: 0.375000 %/day Actual Value: 0.000000 %/day

2. The end of test upper 95% confidence limit for the calculated leak rate based on Total Time calculations shall be less than the maximum allowable leak rate ($< .75L_a$).

Required Value: 0.375000 %/day Actual Value: 0.061169 %/day

3. The mean of the measured leak rates based on Total Time calculations over the last five hours of test or last twenty data points, whichever provides the most data, shall be less than the maximum allowable leak rate ($< .75L_a$).

Required Value: 0.375000 %/day Actual Value: 0.045863 %/day

4. Data shall be recorded at approximately equal intervals and in no case at intervals greater than one hour.

Required Interval: $< = 1$ hr Maximum Actual Interval: 0.25 hr

5. At least twenty (20) data points shall be provided for proper statistical analysis.

Required # Data Points: $> = 20$ Actual Data Points: 26

6. In no case shall the minimum test duration be less than six (6) hours.

Required Minimum Duration: 6 hr Actual Duration: 6.2 hr

Total Time Leak Rate Analysis

DAVIS-BESSE NUCLEAR POWER STATION

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RDG	TIME (MINUTES)	MEASURED LEAK (WT %/DAY)	CALCULATED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
95	0.00	-	-	-
96	15.02	0.066661	-	-
97	30.02	0.108568	0.108568	-
98	45.03	0.103169	0.111052	0.298235
99	60.03	0.128787	0.128938	0.197555
100	75.05	0.096282	0.116583	0.200436
101	90.05	0.076237	0.099233	0.183703
102	105.07	0.052471	0.078080	0.162369
103	120.07	0.051032	0.064434	0.139660
104	135.08	0.059030	0.058663	0.125168
105	150.08	0.039669	0.048208	0.109016
106	165.10	0.058746	0.047016	0.104086
107	180.10	0.046134	0.042611	0.095594
108	195.12	0.047971	0.039955	0.089981
109	210.12	0.044638	0.037206	0.084691
110	225.13	0.044724	0.035200	0.080753
111	240.13	0.042394	0.033194	0.077043
112	255.15	0.035838	0.030263	0.072328
113	270.15	0.043393	0.029514	0.070845
114	285.17	0.041155	0.028545	0.069057
115	300.17	0.032228	0.026162	0.065387
116	0.00	0.000000	0.000000	0.000000
117	330.18	0.042476	0.023547	0.063385
118	345.20	0.031106	0.022235	0.061039
119	360.20	0.037538	0.022265	0.060739
120	374.72	0.040062	0.022770	0.061169

Mass Point Leak Rate Analysis

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Unit No. 1

RDG	TIME	Norm Mass	MP Leak %/day	MP UCL %/day
95	0.00	1.0000	0.00000	0.00000
96	15.02	0.99999	0.066661	0.00000
97	30.02	0.99998	0.10856	0.31568
98	45.03	0.99997	0.10790	0.13977
99	60.03	0.99995	0.12731	0.15754
100	75.05	0.99995	0.10985	0.13783
101	90.05	0.99995	0.089279	0.11965
102	105.07	0.99996	0.065753	0.10000
103	120.07	0.99996	0.053123	0.082451
104	135.08	0.99994	0.050505	0.073639
105	150.08	0.99996	0.040665	0.062000
106	165.10	0.99993	0.043020	0.060744
107	180.10	0.99994	0.039973	0.055148
108	195.12	0.99994	0.038916	0.051858
109	210.12	0.99993	0.037288	0.048549
110	225.13	0.99993	0.036390	0.046226
111	240.13	0.99993	0.035206	0.043923
112	255.15	0.99994	0.032546	0.040712
113	270.15	0.99992	0.032841	0.040125
114	285.17	0.99992	0.032599	0.039136
115	300.17	0.99993	0.030213	0.036572
116	315.18	0.00000	0.00000	0.00000
117	330.18	0.99990	0.031201	0.036968
118	345.20	0.99993	0.029094	0.034655
119	360.20	0.99991	0.029123	0.034175
120	374.72	0.99990	0.029802	0.034465

Containment Calculated Values

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RDG	TIME	MASS	TEMP	VAPOR PRESS	PRESSURE
95	17:30:36	769906.86	70.931	0.2073	53.6119
96	17:45:37	769901.51	70.863	0.2074	53.6048
97	18:00:37	769889.44	70.807	0.2074	53.5983
98	18:15:38	769882.02	70.747	0.2075	53.5918
99	18:30:38	769865.53	70.698	0.2076	53.5859
100	18:45:39	769868.23	70.642	0.2076	53.5804
101	19:00:39	769870.16	70.586	0.2077	53.5750
102	19:15:40	769877.39	70.529	0.2076	53.5697
103	19:30:40	769874.10	70.481	0.2077	53.5647
104	19:45:41	769864.23	70.439	0.2078	53.5599
105	20:00:41	769875.03	70.386	0.2077	53.5553
106	20:15:42	769855.01	70.353	0.2077	53.5506
107	20:30:42	769862.44	70.306	0.2079	53.5465
108	20:45:43	769856.82	70.267	0.2079	53.5422
109	21:00:43	769856.72	70.226	0.2080	53.5381
110	21:15:44	769853.03	70.190	0.2080	53.5343
111	21:30:44	769852.43	70.155	0.2079	53.5306
112	21:45:45	769857.97	70.112	0.2080	53.5268
113	22:00:45	769844.19	70.086	0.2081	53.5233
114	22:15:46	769844.12	70.057	0.2082	53.5204
115	22:30:46	769855.14	70.015	0.2082	53.5170
116	22:45:47	769835.66	69.998	0.2083	53.5140
117	23:00:47	769831.88	69.970	0.2083	53.5110
118	23:15:48	769849.45	69.935	0.2084	53.5087
119	23:30:48	769834.57	69.916	0.2084	53.5058
120	23:45:19	769826.60	69.897	0.2085	53.5035

Radiation Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 95 - Oct 18 17:30:36

Pressures (psia)										
1.. 2	53.615	53.608								
Dew Points (volts)										
1.. 8	2.8381	2.8486	2.7802	2.7809	2.7267	2.6966	2.7137	2.6953		
9..10	2.7982	2.7289								
Temperatures (ohms)										
1.. 8	108.43	108.47	108.49	108.46	108.49	108.46	108.48	108.47		
9..16	108.5	108.51	108.54	108.5	108.52	108.58	108.53	108.59		
17..24	108.62	108.58	108.56	108.54	108.59	108.59	108.56	108.53		
25..30	108.47	108.45	108.33	108.39	108.29	108.37				

Reading # 96 - Oct 18 17:45:37

Pressures (psia)										
1.. 2	53.608	53.602								
Dew Points (volts)										
1.. 8	2.8387	2.8518	2.7798	2.7885	2.7372	2.7111	2.7298	2.7134		
9..10	2.8022	2.7438								
Temperatures (ohms)										
1.. 8	108.41	108.45	108.46	108.44	108.47	108.44	108.46	108.46		
9..16	108.49	108.5	108.52	108.49	108.51	108.56	108.51	108.58		
17..24	108.6	108.57	108.54	108.51	108.58	108.58	108.55	108.52		
25..30	108.47	108.44	108.32	108.38	108.29	108.37				

Reading # 97 - Oct 18 18:00:37

Pressures (psia)										
1.. 2	53.602	53.595								
Dew Points (volts)										
1.. 8	2.8351	2.8554	2.785	2.7929	2.7461	2.7187	2.7408	2.7221		
9..10	2.8072	2.7537								
Temperatures (ohms)										
1.. 8	108.4	108.44	108.44	108.43	108.45	108.43	108.44	108.44		
9..16	108.47	108.48	108.5	108.47	108.5	108.54	108.5	108.56		
17..24	108.58	108.56	108.53	108.5	108.58	108.57	108.57	108.5		
25..30	108.46	108.42	108.32	108.38	108.3	108.37				

Raw Instrument Data

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Reading # 98 - Oct 18 18:15:38

		Pressures (psia)						
1.. 2	53.595	53.588						
		Dew Points (volts)						
1.. 8	2.8473	2.8555	2.7948	2.7979	2.7554	2.729	2.7518	2.7335
9..10	2.8091	2.7618						
		Temperatures (ohms)						
1.. 8	108.38	108.41	108.43	108.42	108.43	108.4	108.43	108.44
9..16	108.45	108.46	108.49	108.46	108.48	108.53	108.49	108.44
17..24	108.57	108.54	108.51	108.48	108.57	108.56	108.56	108.49
25..30	108.45	108.42	108.32	108.39	108.32	108.37		

Reading # 99 - Oct 18 18:30:39

		Pressures (psia)						
1.. 2	53.589	53.583						
		Dew Points (volts)						
1.. 8	2.8554	2.8633	2.796	2.801	2.7626	2.7376	2.76	2.7433
9..10	2.8153	2.7682						
		Temperatures (ohms)						
1.. 8	108.36	108.41	108.41	108.4	108.41	108.4	108.41	108.42
9..16	108.44	108.45	108.47	108.45	108.46	108.51	108.47	108.54
17..24	108.55	108.55	108.5	108.47	108.55	108.56	108.56	108.48
25..30	108.45	108.41	108.31	108.38	108.32	108.38		

Reading # 100 - Oct 18 18:45:39

		Pressures (psia)						
1.. 2	53.584	53.577						
		Dew Points (volts)						
1.. 8	2.8547	2.866	2.7982	2.8075	2.7707	2.7442	2.7649	2.7545
9..10	2.8159	2.7745						
		Temperatures (ohms)						
1.. 8	108.35	108.39	108.4	108.39	108.4	108.38	108.4	108.4
9..16	108.42	108.44	108.46	108.44	108.44	108.5	108.46	108.53
17..24	108.54	108.53	108.48	108.46	108.54	108.55	108.54	108.47
25..30	108.44	108.4	108.3	108.39	108.31	108.36		

Raw Instrument Data

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Reading # 101 - Oct 18 19:00:39

Pressures (psia)									
1.. 2	53.578	53.572							
Dew Points (volts)									
1.. 8	2.8625	2.8685	2.8065	2.8136	2.7804	2.7537	2.7762	2.7614	
9..10	2.8214	2.7807							
Temperatures (ohms)									
1.. 8	108.34	108.37	108.38	108.38	108.39	108.37	108.39	108.39	
9..16	108.42	108.42	108.44	108.43	108.43	108.49	108.44	108.51	
17..24	108.52	108.52	108.48	108.44	108.53	108.53	108.52	108.46	
25..30	108.43	108.39	108.3	108.38	108.31	108.36			

Reading # 102 - Oct 18 19:15:40

Pressures (psia)									
1.. 2	53.573	53.566							
Dew Points (volts)									
1.. 8	2.8663	2.8727	2.8093	2.8186	2.7855	2.7588	2.7804	2.7701	
9..10	2.8258	2.7863							
Temperatures (ohms)									
1.. 8	108.32	108.36	108.37	108.36	108.37	108.35	108.37	108.38	
9..16	108.4	108.41	108.44	108.41	108.42	108.48	108.42	108.5	
17..24	108.51	108.5	108.46	108.43	108.52	108.52	108.52	108.45	
25..30	108.42	108.38	108.29	108.38	108.32	108.37			

Reading # 103 - Oct 18 19:30:40

Pressures (psia)									
1.. 2	53.568	53.561							
Dew Points (volts)									
1.. 8	2.8676	2.8766	2.8182	2.8216	2.7955	2.7653	2.7862	2.7766	
9..10	2.8303	2.7933							
Temperatures (ohms)									
1.. 8	108.31	108.35	108.36	108.35	108.36	108.34	108.36	108.37	
9..16	108.38	108.4	108.42	108.4	108.4	108.46	108.41	108.49	
17..24	108.5	108.49	108.45	108.42	108.51	108.51	108.5	108.44	
25..30	108.42	108.38	108.29	108.39	108.31	108.37			

Raw Instrument Data

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Reading # 104 - Oct 18 19:45:41

		Pressures (psia)							
1.. 2	53.563	53.556							
		Dew Points (volts)							
1.. 8	2.874	2.879	2.8224	2.829	2.8047	2.7727	2.7906	2.7817	
9..10	2.8354	2.7973							
		Temperatures (ohms)							
1.. 8	108.3	108.34	108.35	108.35	108.35	108.33	108.35	108.36	
9..16	108.37	108.39	108.41	108.4	108.39	108.45	108.4	108.48	
17..24	108.49	108.47	108.44	108.4	108.5	108.5	108.49	108.43	
25..30	108.41	108.36	108.29	108.38	108.31	108.37			

Reading # 105 - Oct 18 20:00:41

		Pressures (psia)							
1.. 2	53.558	53.552							
		Dew Points (volts)							
1.. 8	2.8749	2.8811	2.8235	2.8367	2.8088	2.7779	2.7966	2.7887	
9..10	2.8387	2.804							
		Temperatures (ohms)							
1.. 8	108.29	108.33	108.34	108.34	108.34	108.31	108.34	108.36	
9..16	108.36	108.37	108.4	108.38	108.38	108.44	108.39	108.46	
17..24	108.48	108.44	108.43	108.39	108.49	108.49	108.48	108.42	
25..30	108.4	108.36	108.29	108.38	108.31	108.36			

Reading # 106 - Oct 18 20:15:42

		Pressures (psia)							
1.. 2	53.554	53.547							
		Dew Points (volts)							
1.. 8	2.8793	2.8835	2.8251	2.8404	2.8119	2.7875	2.8026	2.7937	
9..10	2.8439	2.8082							
		Temperatures (ohms)							
1.. 8	108.28	108.31	108.33	108.32	108.33	108.31	108.33	108.35	
9..16	108.36	108.36	108.39	108.37	108.37	108.44	108.39	108.45	
17..24	108.47	108.44	108.41	108.39	108.48	108.48	108.47	108.42	
25..30	108.39	108.35	108.29	108.41	108.3	108.36			

Raw Instrument Data

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Reading # 107 - Oct 18 20:30:42

		Pressures (psia)							
1.. 2	53.55	53.543							
		Dew Points (volts)							
1.. 8	2.8843	2.8895	2.8321	2.8446	2.8189	2.7893	2.8088	2.8004	
9..10	2.846	2.8125							
		Temperatures (ohms)							
1.. 8	108.27	108.31	108.32	108.31	108.32	108.29	108.32	108.34	
9..16	108.35	108.35	108.38	108.36	108.36	108.42	108.38	108.45	
17..24	108.45	108.42	108.4	108.39	108.47	108.47	108.45	108.41	
25..30	108.38	108.35	108.28	108.4	108.3	108.35			

Reading # 108 - Oct 18 20:45:43

		Pressures (psia)							
1.. 2	53.546	53.539							
		Dew Points (volts)							
1.. 8	2.8874	2.8923	2.8375	2.8494	2.8239	2.7972	2.8141	2.8063	
9..10	2.8485	2.8202							
		Temperatures (ohms)							
1.. 8	108.26	108.29	108.31	108.31	108.31	108.28	108.31	108.33	
9..16	108.33	108.34	108.38	108.35	108.35	108.41	108.37	108.44	
17..24	108.44	108.42	108.39	108.38	108.46	108.46	108.44	108.4	
25..30	108.38	108.33	108.28	108.41	108.3	108.35			

Reading # 109 - Oct 18 21:00:43

		Pressures (psia)							
1.. 2	53.541	53.535							
		Dew Points (volts)							
1.. 8	2.8946	2.8963	2.8447	2.8544	2.829	2.8011	2.8202	2.8099	
9..10	2.8522	2.8206							
		Temperatures (ohms)							
1.. 8	108.25	108.29	108.31	108.29	108.3	108.28	108.3	108.32	
9..16	108.33	108.33	108.37	108.34	108.34	108.4	108.36	108.43	
17..24	108.43	108.41	108.37	108.37	108.45	108.45	108.42	108.39	
25..30	108.38	108.33	108.28	108.4	108.29	108.34			

Law Instrument Data

DAVIS BESSE NUCLEAR POWER STATION

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Reading # 110 - Oct 18 21:15:44

Pressures (psia)									
1.. 2	53.538	53.531							
Dew Points (volts)									
1.. 8	2.9035	2.8977	2.8472	2.8557	2.8372	2.8033	2.8271	2.815	
9..10	2.8554	2.8248							
Temperatures (ohms)									
1.. 8	108.24	108.28	108.29	108.29	108.3	108.26	108.29	108.31	
9..16	108.31	108.32	108.36	108.33	108.33	108.39	108.35	108.42	
17..24	108.42	108.41	108.37	108.36	108.45	108.45	108.42	108.39	
25..30	108.37	108.32	108.27	108.4	108.29	108.34			

Reading # 111 - Oct 18 21:30:44

Pressures (psia)									
1.. 2	53.534	53.527							
Dew Points (volts)									
1.. 8	2.9028	2.9017	2.8485	2.8606	2.8385	2.8078	2.8287	2.82	
9..10	2.8583	2.8324							
Temperatures (ohms)									
1.. 8	108.23	108.27	108.28	108.28	108.28	108.26	108.28	108.3	
9..16	108.31	108.31	108.35	108.32	108.32	108.39	108.34	108.41	
17..24	108.41	108.4	108.36	108.34	108.44	108.44	108.43	108.38	
25..30	108.37	108.31	108.27	108.41	108.29	108.34			

Reading # 112 - Oct 18 21:45:45

Pressures (psia)									
1.. 2	53.53	53.524							
Dew Points (volts)									
1.. 8	2.9096	2.9047	2.8566	2.8661	2.8419	2.814	2.8362	2.8254	
9..10	2.8608	2.831							
Temperatures (ohms)									
1.. 8	108.22	108.26	108.27	108.27	108.27	108.25	108.27	108.3	
9..16	108.29	108.31	108.34	108.32	108.31	108.37	108.34	108.4	
17..24	108.4	108.38	108.36	108.33	108.43	108.42	108.41	108.37	
25..30	108.35	108.31	108.27	108.41	108.28	108.33			

Raw Instrument Data

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Reading # 113 - Oct 18 22:00:45

Pressures (psia)									
1.. 2	53.527	53.52							
Dew Points (volts)									
1.. 8	2.9062	2.9077	2.8601	2.8715	2.8477	2.8188	2.8383	2.8276	
9..10	2.8636	2.8361							
Temperatures (ohms)									
1.. 8	108.22	108.25	108.27	108.27	108.27	108.24	108.26	108.29	
9..16	108.29	108.3	108.33	108.31	108.31	108.37	108.32	108.39	
17..24	108.4	108.37	108.35	108.33	108.42	108.43	108.4	108.37	
25..30	108.35	108.31	108.26	108.4	108.27	108.32			

Reading # 114 - Oct 18 22:15:46

Pressures (psia)									
1.. 2	53.524	53.517							
Dew Points (volts)									
1.. 8	2.9136	2.9109	2.8626	2.8766	2.8494	2.8199	2.8437	2.8329	
9..10	2.8689	2.8379							
Temperatures (ohms)									
1.. 8	108.21	108.25	108.25	108.26	108.26	108.22	108.25	108.28	
9..16	108.29	108.29	108.32	108.31	108.3	108.36	108.31	108.4	
17..24	108.4	108.37	108.34	108.32	108.42	108.42	108.39	108.36	
25..30	108.36	108.3	108.26	108.41	108.27	108.32			

Reading # 115 - Oct 18 22:30:46

Pressures (psia)									
1.. 2	53.52	53.514							
Dew Points (volts)									
1.. 8	2.9204	2.9142	2.8674	2.8789	2.8573	2.8252	2.8476	2.8362	
9..10	2.8692	2.844							
Temperatures (ohms)									
1.. 8	108.2	108.24	108.24	108.25	108.25	108.22	108.25	108.27	
9..16	108.27	108.29	108.31	108.29	108.28	108.35	108.31	108.38	
17..24	108.38	108.37	108.33	108.32	108.41	108.41	108.39	108.35	
25..30	108.34	108.3	108.26	108.4	108.26	108.31			

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 116 - Oct 18 22:45:47

Pressures (psia)									
1.. 2	53.517	53.511							
Dew Points (volts)									
1.. 8	2.9237	2.9176	2.87	2.8822	2.8621	2.8262	2.8478	2.8444	
9..10	2.8727	2.8465							
Temperatures (ohms)									
1.. 8	108.19	108.23	108.24	108.24	108.25	108.22	108.25	108.27	
9..16	108.27	108.28	108.31	108.29	108.29	108.34	108.3	108.38	
17..24	108.37	108.37	108.33	108.3	108.4	108.4	108.38	108.35	
25..30	108.35	108.29	108.25	108.41	108.26	108.31			

Reading # 117 - Oct 18 23:00:47

Pressures (psia)									
1.. 2	53.514	53.508							
Dew Points (volts)									
1.. 8	2.9255	2.9156	2.8754	2.8848	2.8628	2.8317	2.8528	2.844	
9..10	2.8756	2.8466							
Temperatures (ohms)									
1.. 8	108.19	108.23	108.24	108.24	108.24	108.21	108.24	108.26	
9..16	108.26	108.27	108.3	108.29	108.27	108.34	108.3	108.38	
17..24	108.36	108.35	108.32	108.3	108.4	108.39	108.37	108.35	
25..30	108.34	108.29	108.26	108.4	108.25	108.31			

Reading # 118 - Oct 18 23:15:48

Pressures (psia)									
1.. 2	53.512	53.506							
Dew Points (volts)									
1.. 8	2.9324	2.9217	2.8756	2.8902	2.8694	2.8378	2.8573	2.8491	
9..10	2.8763	2.8526							
Temperatures (ohms)									
1.. 8	108.18	108.22	108.23	108.24	108.23	108.2	108.23	108.25	
9..16	108.25	108.27	108.29	108.28	108.27	108.33	108.29	108.36	
17..24	108.36	108.34	108.31	108.29	108.38	108.39	108.37	108.34	
25..30	108.34	108.28	108.25	108.41	108.25	108.3			

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 119 - Oct 18 23:30:48

Pressures (psia)

1.. 2 53.509 53.503

Dew Points (volts)

1.. 8 2.9293 2.927 2.8809 2.8909 2.8724 2.8384 2.8596 2.8523
9..10 2.8791 2.8535

Temperatures (ohms)

1.. 8 108.17 108.21 108.22 108.22 108.23 108.2 108.22 108.25
9..16 108.24 108.27 108.29 108.27 108.27 108.32 108.29 108.36
17..24 108.35 108.34 108.31 108.29 108.39 108.39 108.36 108.34
25..30 108.33 108.28 108.25 108.4 108.25 108.3

Reading # 120 - Oct 18 23:45:19

Pressures (psia)

1.. 2 53.507 53.5

Dew Points (volts)

1.. 8 2.934 2.9285 2.8859 2.8944 2.8748 2.8449 2.8642 2.8567
9..10 2.882 2.8552

Temperatures (ohms)

1.. 8 108.17 108.2 108.22 108.22 108.22 108.19 108.22 108.25
9..16 108.24 108.25 108.29 108.27 108.26 108.33 108.28 108.36
17..24 108.35 108.34 108.31 108.29 108.38 108.38 108.35 108.33
25..30 108.32 108.28 108.25 108.4 108.24 108.3

Calibrated Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 95 - Oct 18 17:30:36

Pressures (PSIA)

1.. 2 53.615 53.608

Dew Points (°F)

1.. 8 54.686 54.665 54.28 54.353 53.944 53.684 53.885 53.73
9..10 54.213 53.669

Temperatures (°F)

1.. 8 70.649 70.64 70.771 70.64 70.762 70.786 70.924 70.851
9..16 70.942 71.012 71.021 71.015 71.095 71.143 71.153 71.198
17..24 71.25 71.235 71.229 71.262 71.308 71.394 71.052 71.107
25..30 70.679 70.832 70.004 70.511 69.824 70.255

Reading # 96 - Oct 18 17:45:37

Pressures (PSIA)

1.. 2 53.608 53.602

Dew Points (°F)

1.. 8 54.564 54.611 54.234 54.385 53.964 53.788 53.961 53.786
9..10 54.52 53.775

Temperatures (°F)

1.. 8 70.557 70.549 70.634 70.549 70.671 70.695 70.832 70.805
9..16 70.996 70.966 70.93 70.969 71.049 71.052 71.061 71.153
17..24 71.159 71.189 71.137 71.125 71.263 71.348 71.006 71.061
25..30 70.679 70.786 69.958 70.466 69.824 70.255

Reading # 97 - Oct 18 18:00:37

Pressures (PSIA)

1.. 2 53.602 53.595

Dew Points (°F)

1.. 8 54.54 54.603 54.2 54.343 54.011 53.779 54.029 53.83
9..10 54.258 53.788

Temperatures (°F)

1.. 8 70.511 70.503 70.542 70.503 70.579 70.649 70.74 70.713
9..16 70.805 70.875 70.838 70.878 71.003 70.96 71.015 71.061
17..24 71.067 71.143 71.092 71.079 71.263 71.302 71.098 70.969
25..30 70.634 70.695 69.958 70.466 69.87 70.255

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 98 - Oct 18 18:15:38

Pressures (PSIA)

1.. 2 53.595 53.588

Dew Points (°F)

1.. 8 54.518 54.561 54.211 54.306 54.061 53.797 54.053 53.86
9..10 54.234 53.869

Temperatures (°F)

1.. 8 70.42 70.366 70.496 70.457 70.488 70.511 70.695 70.667
9..16 70.713 70.783 70.793 70.832 70.912 70.915 70.969 70.969
17..24 71.021 71.052 71 70.988 71.217 71.257 71.052 70.924
25..30 70.588 70.695 69.958 70.511 69.962 70.255

Reading # 99 - Oct 18 18:30:38

Pressures (PSIA)

1.. 2 53.589 53.583

Dew Points (°F)

1.. 8 54.511 54.55 54.18 54.294 54.047 53.883 54.092 53.915
9..10 54.294 53.889

Temperatures (°F)

1.. 8 70.328 70.366 70.405 70.366 70.396 70.511 70.603 70.622
9..16 70.667 70.737 70.701 70.786 70.82 70.823 70.878 70.969
17..24 70.93 71.098 70.954 70.942 71.125 71.257 71.052 70.878
25..30 70.588 70.649 69.912 70.466 69.962 70.301

Reading # 100 - Oct 18 18:45:39

Pressures (PSIA)

1.. 2 53.584 53.577

Dew Points (°F)

1.. 8 54.461 54.533 54.116 54.315 54.084 53.907 54.056 53.984
9..10 54.257 53.909

Temperatures (°F)

1.. 8 70.282 70.274 70.359 70.32 70.35 70.42 70.557 70.53
9..16 70.576 70.691 70.655 70.74 70.728 70.777 70.832 70.924
17..24 70.884 71.006 70.863 70.896 71.079 71.211 70.96 70.832
25..30 70.542 70.603 69.867 70.511 69.916 70.301

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 101 - Oct 18 19:00:39

		Pressures (PSIA)							
1.. 2	53.578	53.572							
		Dew Points (°F)							
1.. 8	54.451	54.518	54.197	54.289	54.095	53.916	54.167	53.967	
9..10	54.268	53.927							
		Temperatures (°F)							
1.. 8	70.237	70.183	70.267	70.274	70.305	70.374	70.511	70.484	
9..16	70.576	70.6	70.564	70.695	70.683	70.732	70.74	70.832	
17..24	70.793	70.96	70.863	70.805	71.034	71.119	70.869	70.786	
25..30	70.496	70.557	69.867	70.466	69.916	70.301			

Reading # 102 - Oct 18 19:15:40

		Pressures (PSIA)							
1.. 2	53.573	53.566							
		Dew Points (°F)							
1.. 8	54.444	54.469	54.139	54.295	54.06	53.924	54.123	54.01	
9..10	54.268	53.94							
		Temperatures (°F)							
1.. 8	70.145	70.137	70.221	70.183	70.213	70.282	70.42	70.439	
9..16	70.484	70.554	70.564	70.603	70.637	70.686	70.649	70.786	
17..24	70.747	70.869	70.771	70.759	70.988	71.073	70.869	70.74	
25..30	70.45	70.511	69.821	70.466	69.962	70.255			

Reading # 103 - Oct 18 19:30:40

		Pressures (PSIA)							
1.. 2	53.568	53.561							
		Dew Points (°F)							
1.. 8	54.414	54.463	54.141	54.281	54.115	53.946	54.138	54.032	
9..10	54.312	54.008							
		Temperatures (°F)							
1.. 8	70.099	70.091	70.176	70.137	70.167	70.237	70.374	70.393	
9..16	70.393	70.508	70.472	70.557	70.545	70.594	70.603	70.74	
17..24	70.701	70.823	70.725	70.713	70.942	71.028	70.777	70.695	
25..30	70.45	70.511	69.821	70.511	69.916	70.255			

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 104 - Oct 18 19:45:41

Pressures (PSIA)								
1.. 2	53.563	53.556						
Dew Points (°F)								
1.. 8	54.475	54.486	54.139	54.31	54.162	53.976	54.138	53.997
9..10	54.318	53.962						
Temperatures (°F)								
1.. 8	70.053	70.045	70.176	70.137	70.122	70.191	70.328	70.347
9..16	70.347	70.462	70.427	70.557	70.5	70.549	70.557	70.695
17..24	70.655	70.732	70.679	70.622	70.896	70.982	70.732	70.649
25..30	70.405	70.42	69.821	70.466	69.916	70.255		

Reading # 105 - Oct 18 20:00:41

Pressures (PSIA)								
1.. 2	53.558	53.552						
Dew Points (°F)								
1.. 8	54.398	54.464	54.107	54.299	54.16	53.942	54.154	54.023
9..10	54.307	54.028						
Temperatures (°F)								
1.. 8	70.008	70	70.084	70.091	70.076	70.099	70.282	70.347
9..16	70.301	70.371	70.381	70.466	70.454	70.503	70.511	70.603
17..24	70.61	70.594	70.634	70.576	70.851	70.936	70.686	70.603
25..30	70.359	70.42	69.821	70.466	69.916	70.21		

Reading # 106 - Oct 18 20:15:42

Pressures (PSIA)								
1.. 2	53.554	53.547						
Dew Points (°F)								
1.. 8	54.397	54.401	54.122	54.292	54.19	53.994	54.128	54.072
9..10	54.315	54.026						
Temperatures (°F)								
1.. 8	69.962	69.908	70.038	70	70.03	70.099	70.237	70.301
9..16	70.301	70.325	70.335	70.42	70.408	70.503	70.511	70.557
17..24	70.564	70.594	70.542	70.576	70.805	70.89	70.64	70.603
25..30	70.313	70.374	69.821	70.603	69.87	70.21		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 107 - Oct 18 20:30:42

Pressures (PSIA)								
1.. 2	53.55	53.543						
Dew Points (°F)								
1.. 8	54.402	54.415	54.147	54.29	54.215	54.012	54.146	54.138
9..10	54.292	54.068						
Temperatures (°F)								
1.. 8	69.916	69.908	69.992	69.954	69.984	70.008	70.191	70.255
9..16	70.255	70.279	70.289	70.374	70.362	70.411	70.466	70.557
17..24	70.472	70.503	70.496	70.576	70.759	70.844	70.549	70.557
25..30	70.267	70.374	69.775	70.557	69.87	70.164		

Reading # 108 - Oct 18 20:45:43

Pressures (PSIA)								
1.. 2	53.546	53.539						
Dew Points (°F)								
1.. 8	54.388	54.442	54.114	54.293	54.221	54.046	54.154	54.153
9..10	54.316	54.057						
Temperatures (°F)								
1.. 8	69.87	69.816	69.947	69.954	69.938	69.962	70.145	70.21
9..16	70.164	70.233	70.289	70.328	70.316	70.366	70.42	70.511
17..24	70.427	70.503	70.45	70.53	70.713	70.798	70.503	70.511
25..30	70.267	70.282	69.775	70.603	69.87	70.164		

Reading # 109 - Oct 18 21:00:43

Pressures (PSIA)								
1.. 2	53.541	53.535						
Dew Points (°F)								
1.. 8	54.457	54.394	54.183	54.298	54.228	54.042	54.128	54.145
9..10	54.352	54.061						
Temperatures (°F)								
1.. 8	69.824	69.816	69.947	69.862	69.893	69.962	70.099	70.164
9..16	70.164	70.187	70.244	70.282	70.271	70.32	70.374	70.466
17..24	70.381	70.457	70.359	70.484	70.667	70.753	70.411	70.466
25..30	70.267	70.282	69.775	70.557	69.824	70.118		

Calibrated Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 110 - Oct 18 21:15:44

Pressures (PSIA)

1.. 2 53.538 53.531

Dew Points (°F)

1.. 8 54.455 54.407 54.122 54.268 54.264 54.021 54.195 54.152
9..10 54.34 54.059

Temperatures (°F)

1.. 8 69.779 69.771 69.855 69.862 69.893 69.87 70.053 70.118
9..16 70.072 70.142 70.198 70.237 70.225 70.274 70.328 70.42
17..24 70.335 70.457 70.359 70.438 70.667 70.753 70.411 70.466
25..30 70.221 70.237 69.729 70.557 69.824 70.118

Reading # 111 - Oct 18 21:30:44

Pressures (PSIA)

1.. 2 53.534 53.527

Dew Points (°F)

1.. 8 54.406 54.402 54.134 54.272 54.234 54.022 54.168 54.115
9..10 54.368 54.09

Temperatures (°F)

1.. 8 69.733 69.725 69.809 69.817 69.801 69.87 70.008 70.072
9..16 70.072 70.096 70.152 70.191 70.179 70.274 70.282 70.374
17..24 70.289 70.411 70.313 70.347 70.622 70.707 70.457 70.42
25..30 70.221 70.191 69.729 70.603 69.824 70.118

Reading # 112 - Oct 18 21:45:45

Pressures (PSIA)

1.. 2 53.53 53.524

Dew Points (°F)

1.. 8 54.427 54.388 54.127 54.325 54.267 54.04 54.24 54.125
9..10 54.306 54.076

Temperatures (°F)

1.. 8 69.687 69.679 69.763 69.771 69.755 69.824 69.962 70.072
9..16 69.981 70.096 70.106 70.191 70.133 70.183 70.282 70.328
17..24 70.243 70.32 70.313 70.301 70.576 70.615 70.366 70.374
25..30 70.13 70.191 69.729 70.603 69.779 70.072

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 113 - Oct 18 22:00:45

Pressures (PSIA)								
1.. 2	53.527	53.52						
Dew Points (°F)								
1.. 8	54.395	54.416	54.16	54.334	54.237	54.044	54.218	54.146
9..10	54.333	54.126						
Temperatures (°F)								
1.. 8	69.687	69.633	69.763	69.771	69.755	69.779	69.916	70.027
9..16	69.981	70.05	70.061	70.145	70.133	70.183	70.191	70.282
17..24	70.243	70.274	70.267	70.301	70.53	70.061	70.32	70.374
25..30	70.13	70.191	69.583	70.557	69.733	70.026		

Reading # 114 - Oct 18 22:15:46

Pressures (PSIA)								
1.. 2	53.524	53.517						
Dew Points (°F)								
1.. 8	54.379	54.403	54.184	54.339	54.211	54.097	54.227	54.155
9..10	54.426	54.1						
Temperatures (°F)								
1.. 8	69.641	69.633	69.672	69.725	69.71	69.687	69.87	69.981
9..16	69.981	70.004	70.015	70.145	70.088	70.137	70.145	70.328
17..24	70.243	70.274	70.221	70.255	70.53	70.615	70.274	70.328
25..30	70.176	70.145	69.683	70.603	69.733	70.026		

Reading # 115 - Oct 18 22:30:46

Pressures (PSIA)								
1.. 2	53.52	53.514						
Dew Points (°F)								
1.. 8	54.4	54.391	54.144	54.361	54.287	54.063	54.222	54.187
9..10	54.344	54.159						
Temperatures (°F)								
1.. 8	69.595	69.588	69.626	69.679	69.664	69.687	69.87	69.935
9..16	69.889	70.004	69.969	70.053	69.996	70.091	70.145	70.237
17..24	70.152	70.274	70.176	70.255	70.484	70.569	70.274	70.282
25..30	70.084	70.145	69.683	70.557	69.687	69.981		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 116 - Oct 18 22:45:47

Pressures (PSIA)

1.. 2 53.517 53.511

Dew Points (°F)

1.. 8 54.431 54.381 54.169 54.35 54.29 54.073 54.224 54.18
9..10 54.42 54.14

Temperatures (°F)

1.. 8 69.55 69.542 69.626 69.634 69.664 69.687 69.87 69.935
9..16 69.889 69.958 69.969 70.053 70.042 70.045 70.099 70.237
17..24 70.106 70.274 70.176 70.164 70.439 70.523 70.228 70.282
25..30 70.13 70.099 69.683 70.603 69.687 69.981

Reading # 117 - Oct 18 23:00:47

Pressures (PSIA)

1.. 2 53.514 53.508

Dew Points (°F)

1.. 8 54.448 54.362 54.178 54.332 54.297 54.126 54.229 54.176
9..10 54.405 54.141

Temperatures (°F)

1.. 8 69.55 69.542 69.626 69.634 69.618 69.641 69.824 69.889
9..16 69.843 69.912 69.923 70.053 69.95 70.045 70.099 70.237
17..24 70.06 70.182 70.13 70.164 70.439 70.478 70.183 70.282
25..30 70.084 70.099 69.683 70.557 69.641 69.981

Reading # 118 - Oct 18 23:15:48

Pressures (PSIA)

1.. 2 53.512 53.506

Dew Points (°F)

1.. 8 54.469 54.419 54.137 54.383 54.317 54.099 54.23 54.183
9..10 54.411 54.156

Temperatures (°F)

1.. 8 69.504 69.496 69.58 69.634 69.572 69.595 69.779 69.843
9..16 69.798 69.912 69.777 70.008 69.95 70 70.053 70.145
17..24 70.06 70.137 70.084 70.118 70.347 70.478 70.183 70.237
25..30 70.084 70.053 69.637 70.603 69.641 69.935

Calibrated Instrument Data

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DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 119 - Oct 18 23:30:48

Pressures (PSIA)

1.. 2 53.503 53.503

Dew Points (°F)

1.. 8 54.397 54.383 54.145 54.39 54.345 54.105 54.252 54.214
9..10 54.395 54.165

Temperatures (°F)

1.. 8 69.458 69.45 69.534 69.542 69.572 69.595 69.733 69.843
9..16 69.752 69.912 69.877 69.962 69.95 69.954 70.053 70.145
17..24 70.015 70.137 70.084 70.118 70.393 70.478 70.137 70.237
25..30 70.038 70.053 69.637 70.557 69.641 69.935

Reading # 120 - Oct 18 23:45:19

Pressures (PSIA)

1.. 2 53.507 53.5

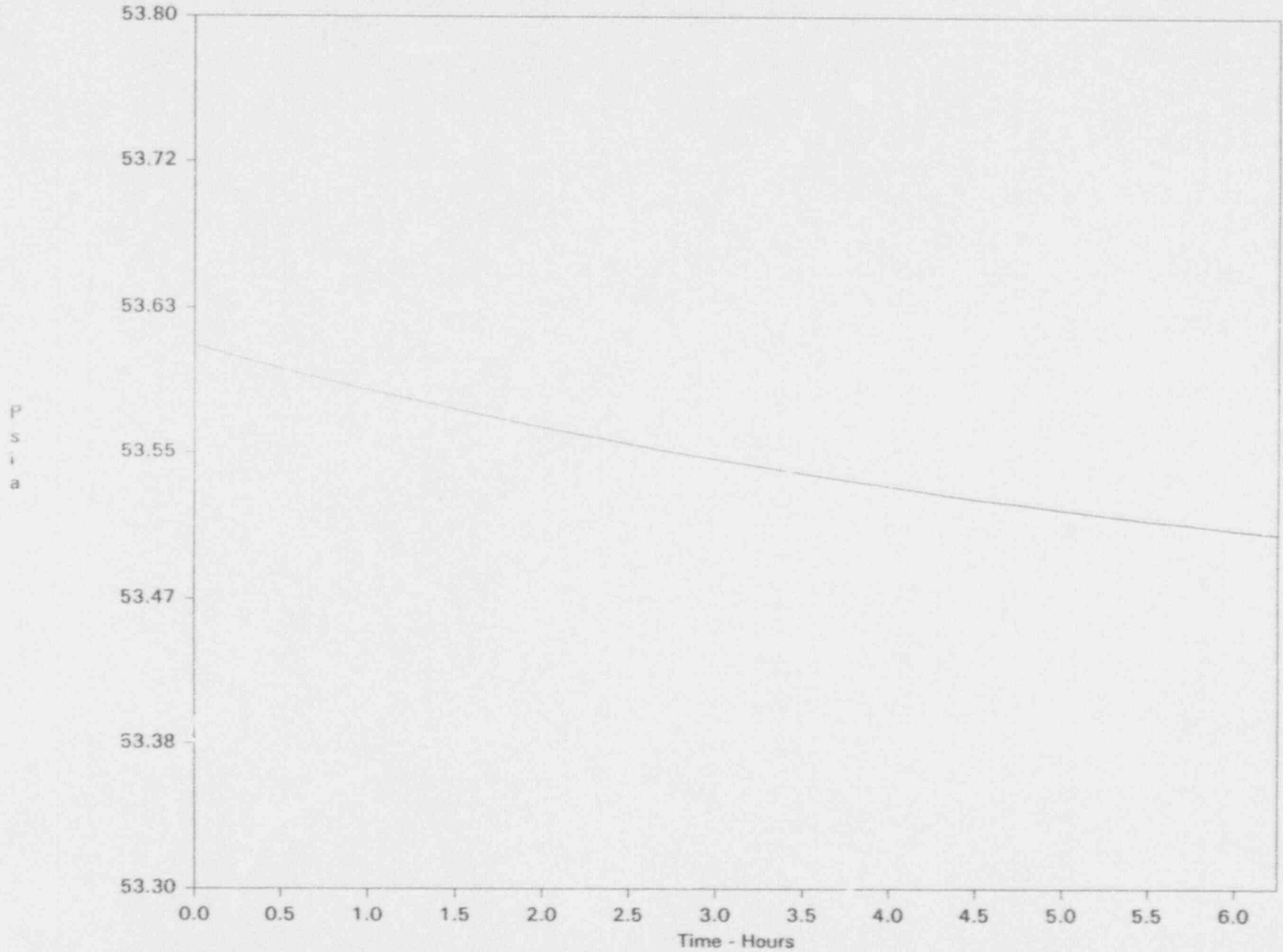
Dew Points (°F)

1.. 8 54.441 54.397 54.192 54.337 54.326 54.168 54.296 54.256
9..10 54.38 54.181

Temperatures (°F)

1.. 8 69.458 69.405 69.534 69.542 69.527 69.55 69.733 69.843
9..16 69.752 69.821 69.877 69.962 69.904 70 70.008 70.145
17..24 70.015 70.137 70.084 70.118 70.347 70.432 70.091 70.191
25..30 69.992 70.053 69.637 70.557 69.595 69.935

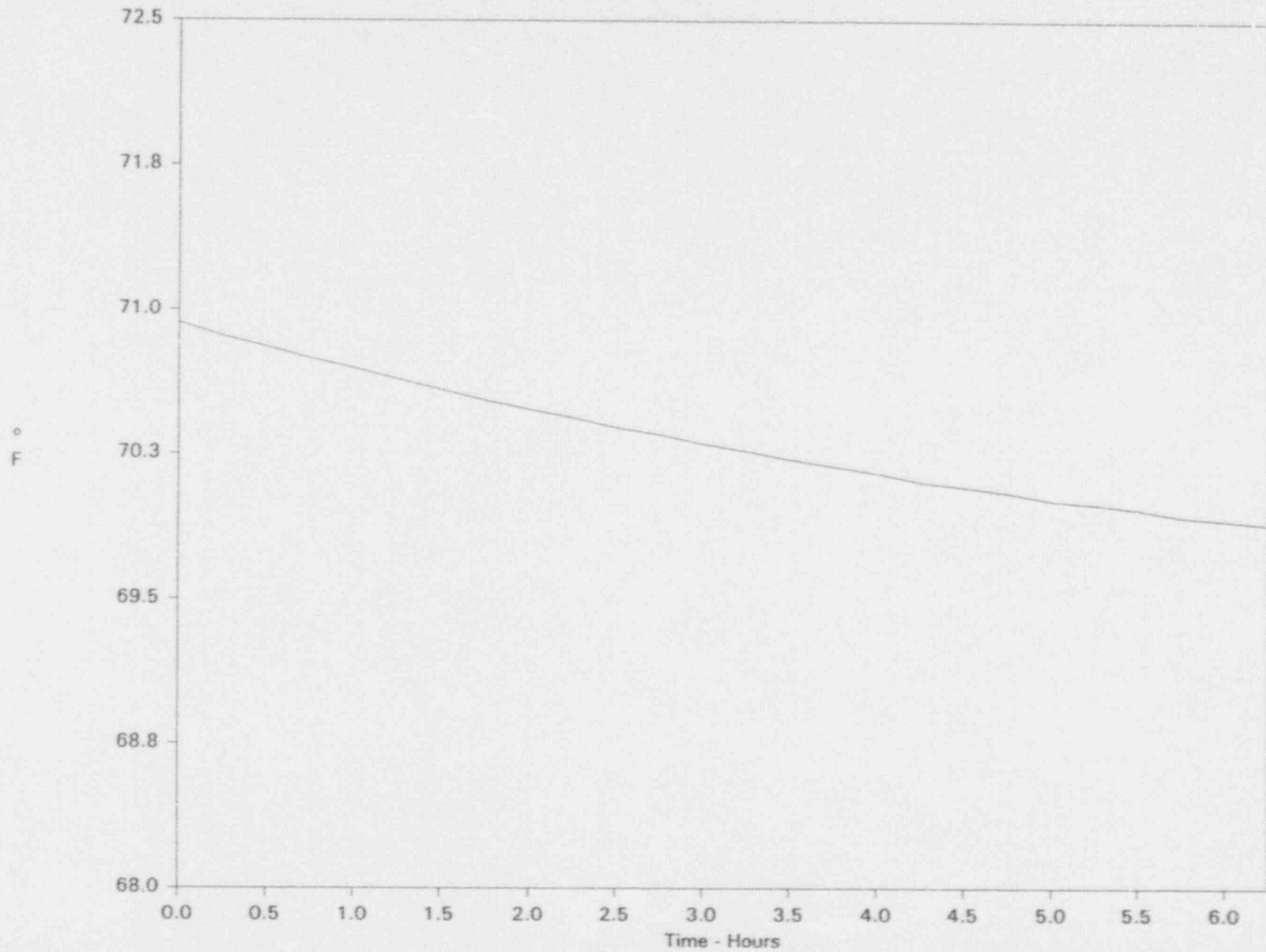
Average Pressure
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Average Temperature

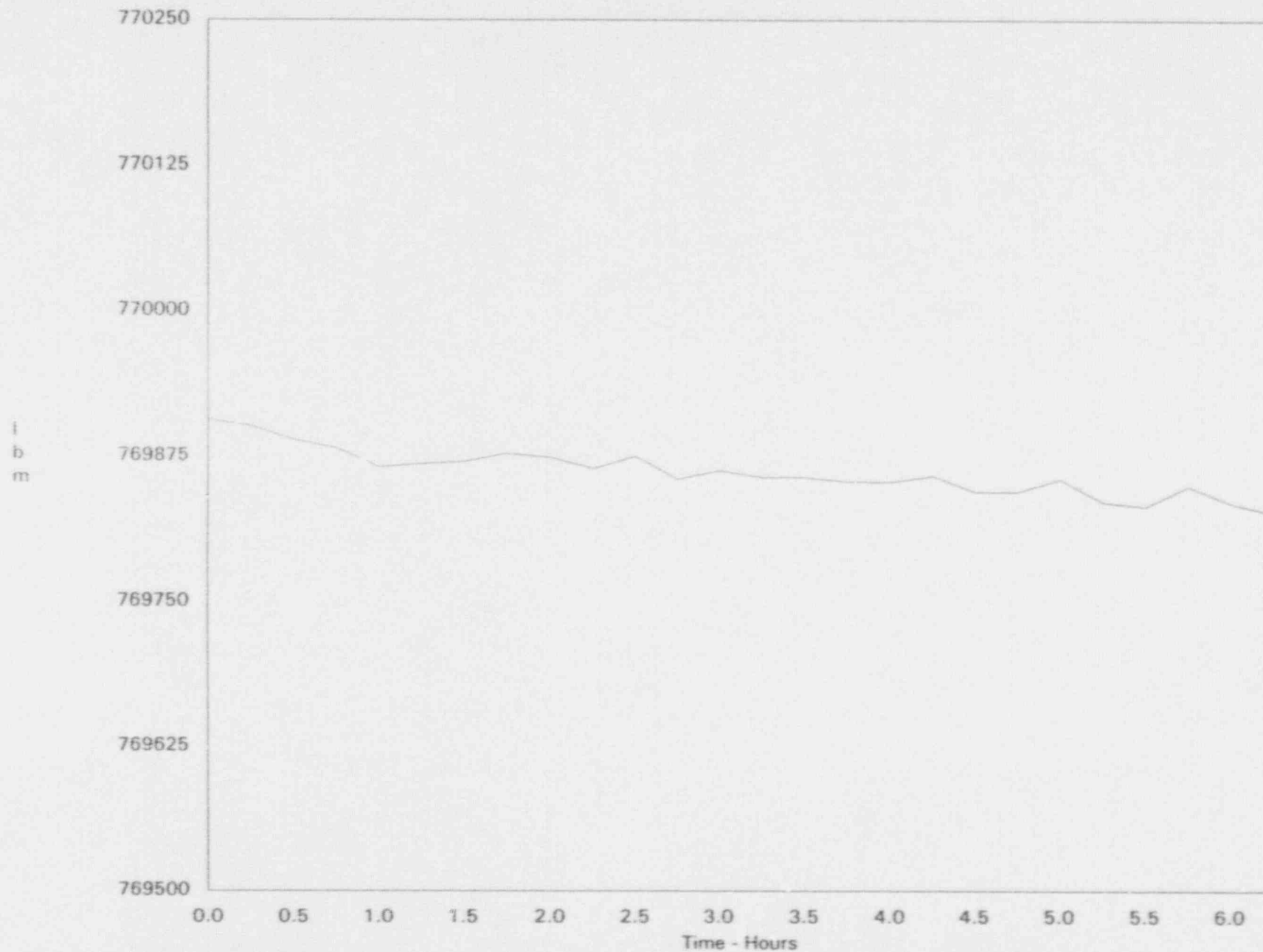
DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1



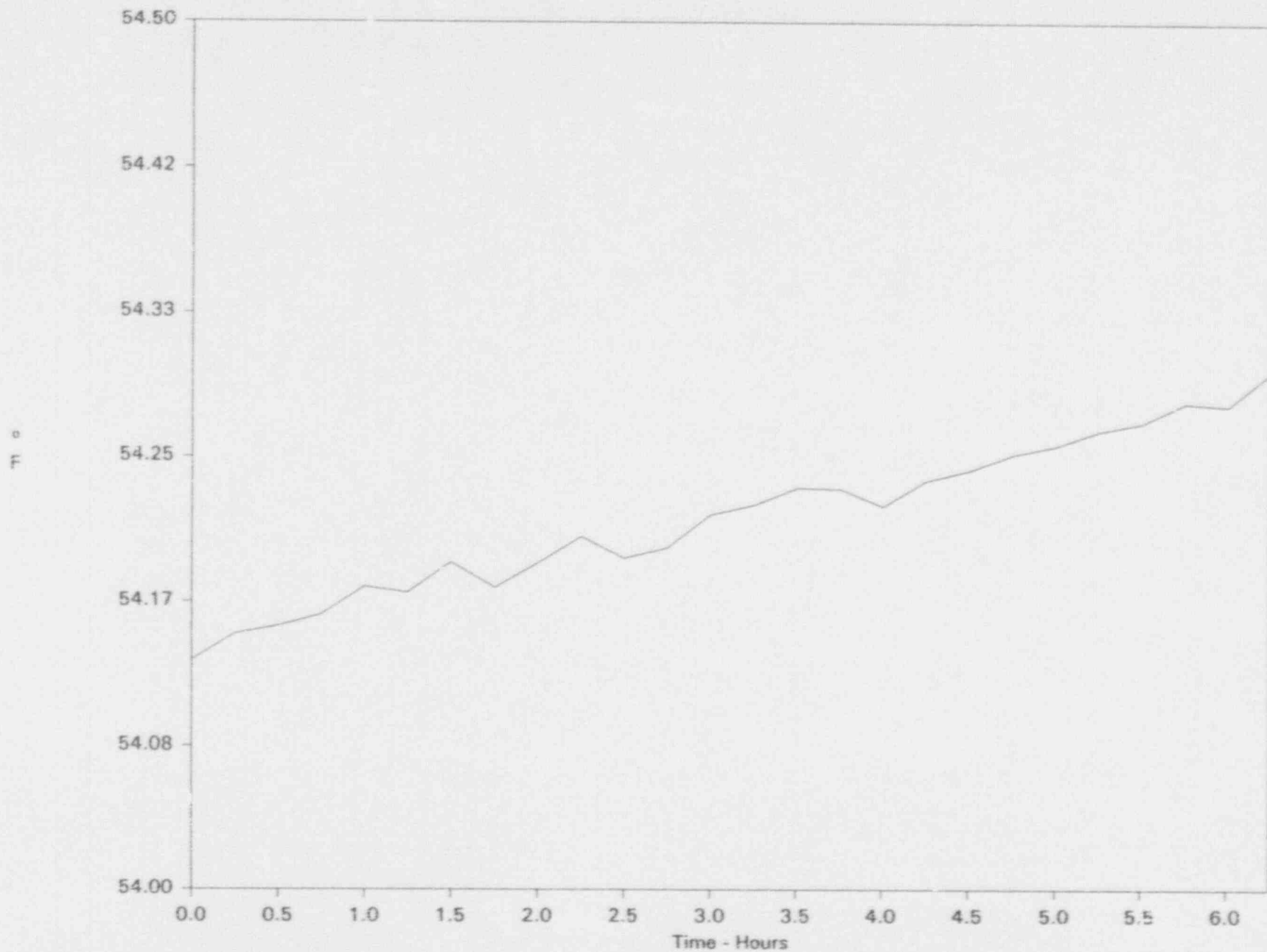
Containment Mass

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



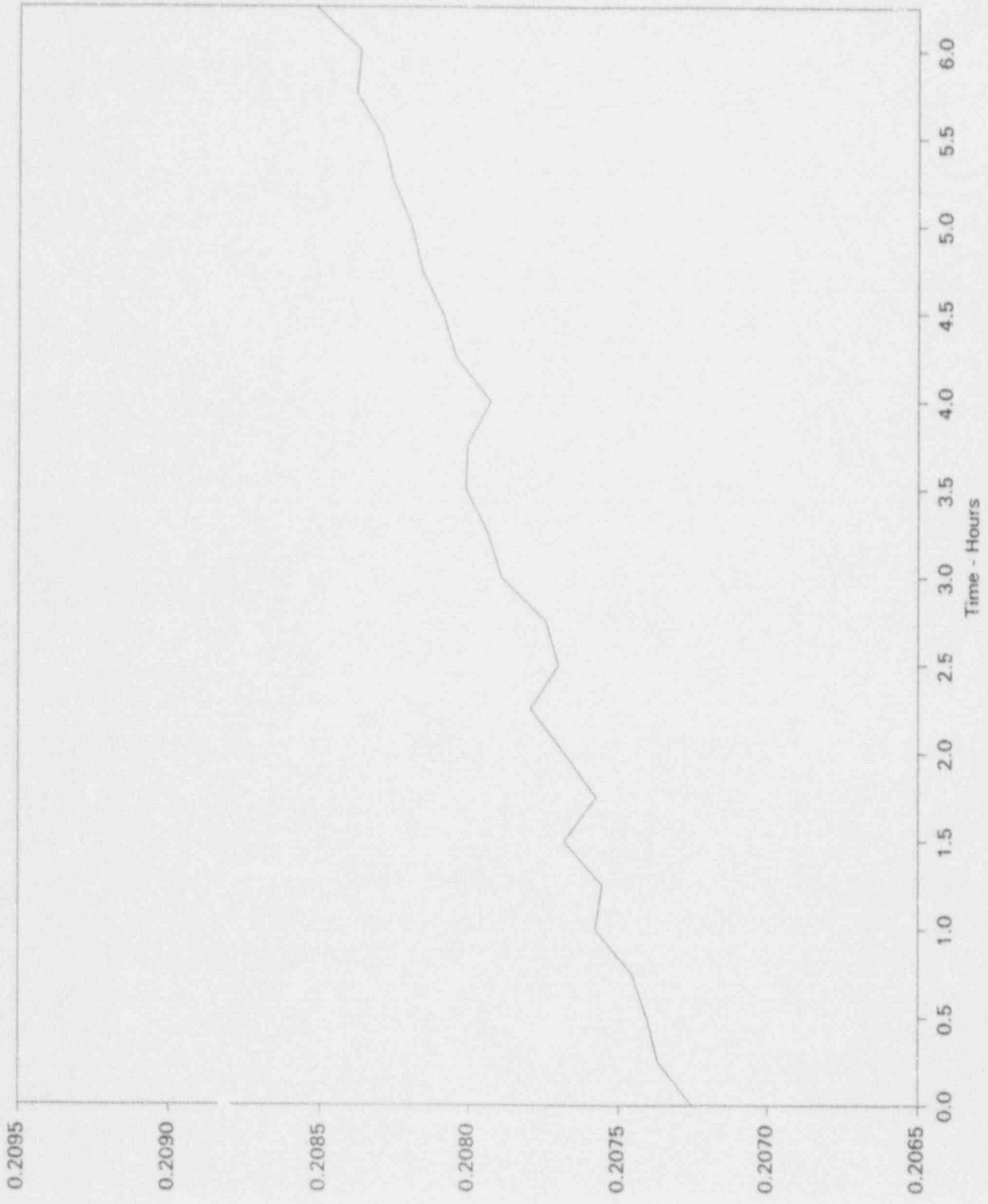
Average Dew Point

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Average Vapor Pressure

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

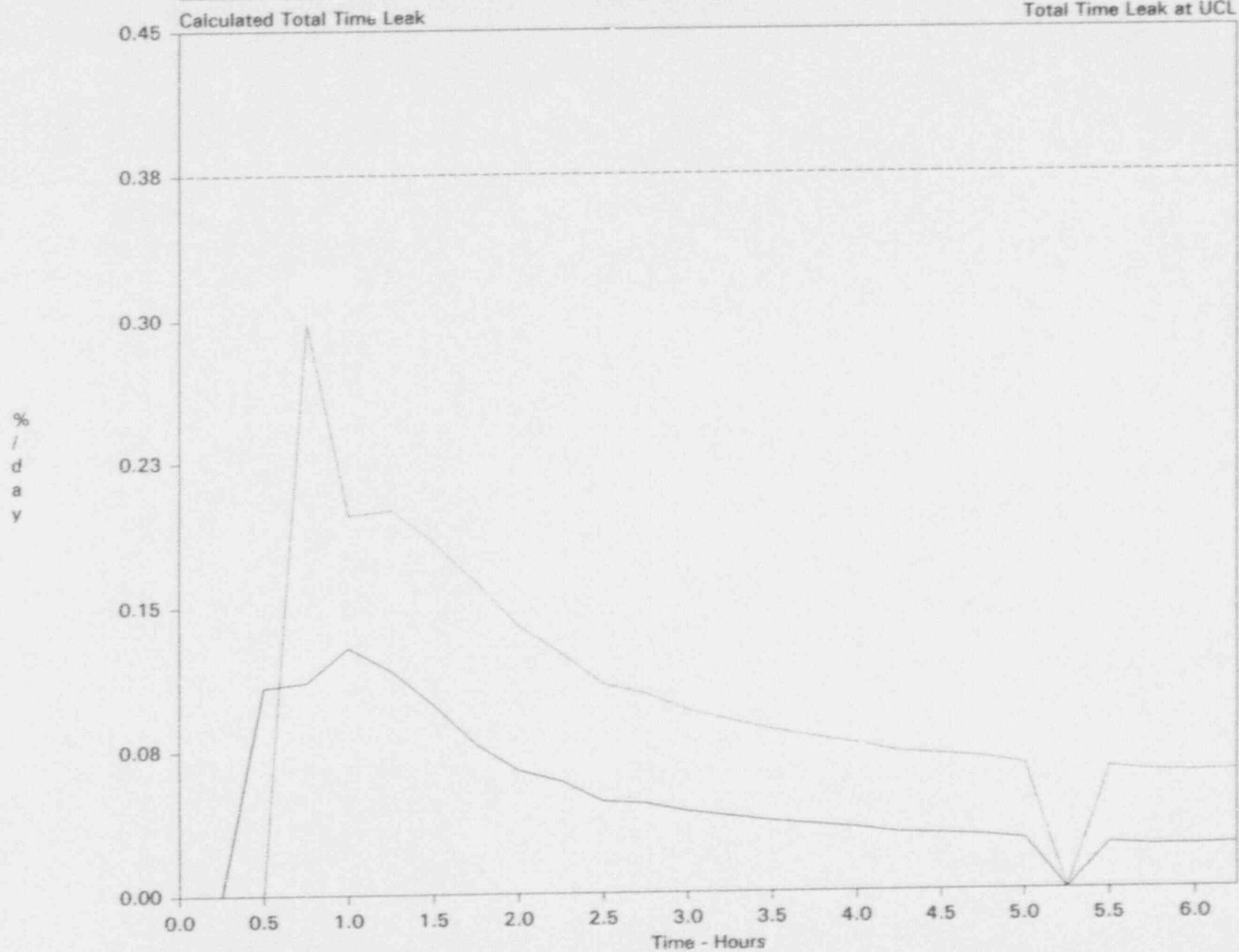


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Calculated Total Time Leak & Total Time Leak at UCL

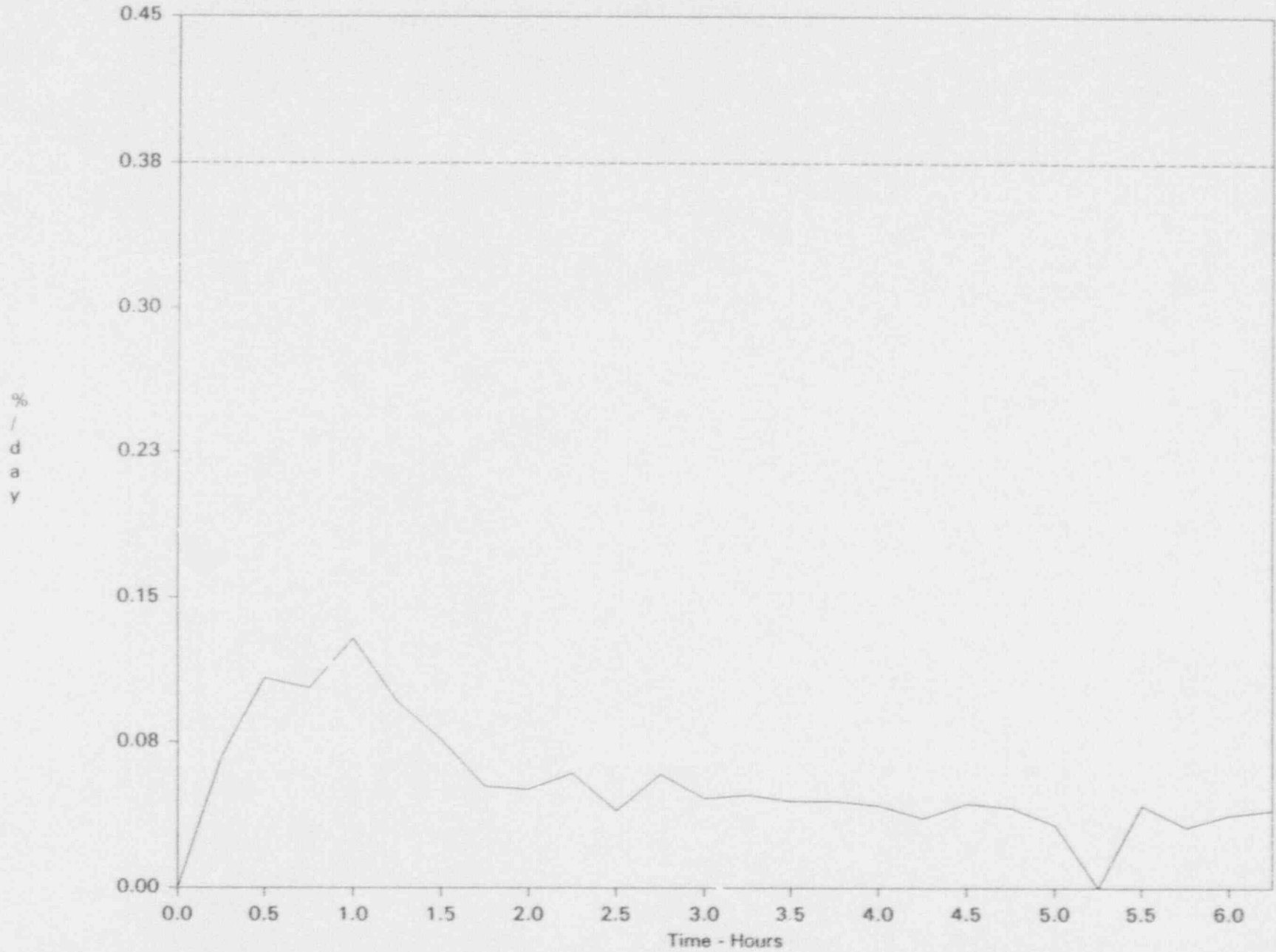
DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1



Measured Total Time Leak

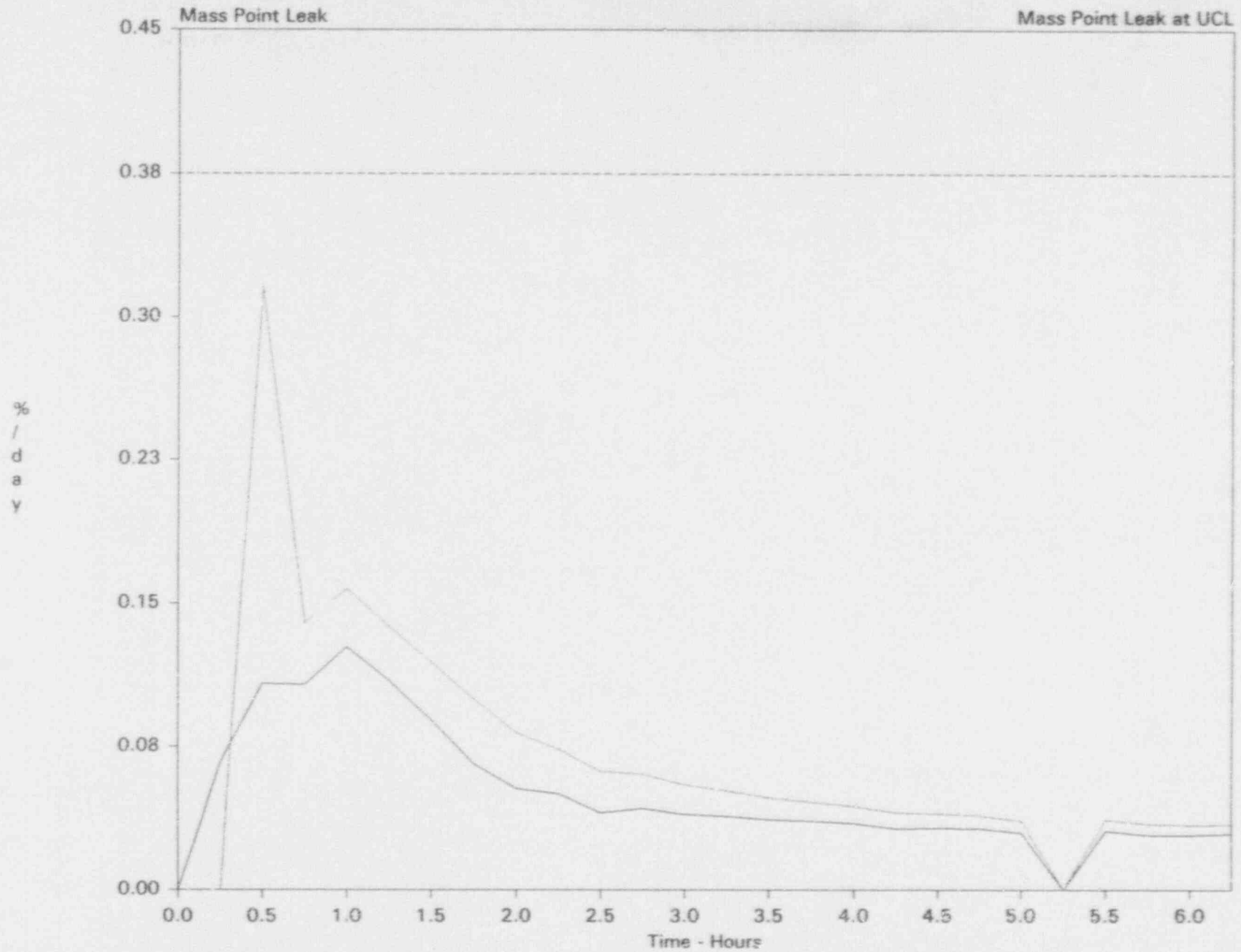
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Mass Point Leak & Mass Point Leak at UCL

DAVIS-BESSE NUCLEAR POWER STATION

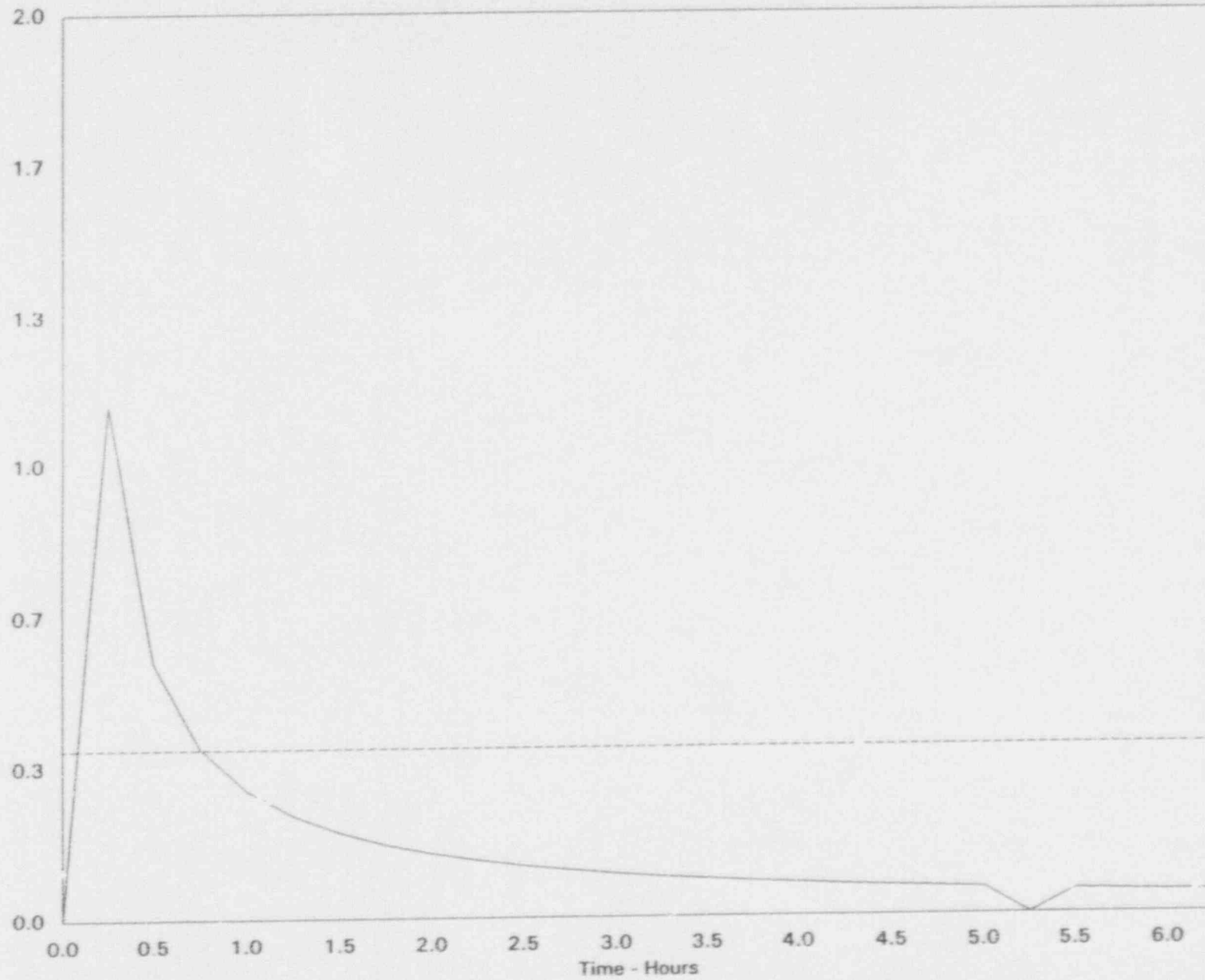
Unit No. 1



Instrument Selection Guide

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1



Total Time Leak Rate Analysis

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

RDG	TIME (MINUTES)	MEASURED LEAK (WT %/DAY)	CALCULATED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
126	0.00	-	-	-
127	10.02	0.636630	-	-
128	20.02	0.603603	0.603603	-
129	30.02	0.579603	0.578099	0.613797
130	40.03	0.625031	0.602405	0.749763
131	50.03	0.606010	0.602220	0.696039
132	60.03	0.615858	0.607470	0.681002
133	70.05	0.599960	0.603199	0.663681
134	80.05	0.628556	0.612535	0.670044
135	90.05	0.590189	0.604206	0.658332
136	100.07	0.607034	0.604316	0.653268
137	110.07	0.586479	0.597894	0.644302
138	120.07	0.586225	0.593145	0.636646
139	129.78	0.588459	0.590288	0.630961
140	139.95	0.573610	0.584253	0.623537
141	149.97	0.602319	0.586548	0.625662
142	159.97	0.587033	0.584957	0.622204
143	169.97	0.595713	0.585594	0.621847
144	179.98	0.607646	0.588602	0.625511
145	189.98	0.592736	0.588222	0.623824
146	249.78	0.579672	0.579865	0.615924

Mass Point Leak Rate Analysis

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

RDG	TIME (MINUTES)	NORM. MASS	MEASURED LEAK (WT %/DAY)	UCL LEAK (WT %/DAY)
126	0.00	1.000000	-	-
127	10.02	0.999956	0.636630	-
128	20.02	0.999916	0.603613	0.766894
129	30.02	0.999879	0.578706	0.627933
130	40.03	0.999826	0.610252	0.658782
131	50.03	0.999789	0.607786	0.636712
132	60.03	0.999743	0.613044	0.633324
133	70.05	0.999708	0.606195	0.622672
134	80.05	0.999651	0.617835	0.635639
135	90.05	0.999631	0.605514	0.624734
136	100.07	0.999578	0.605751	0.621223
137	110.07	0.999552	0.597242	0.612777
138	120.07	0.999511	0.591645	0.605891
139	129.78	0.999470	0.588811	0.601277
140	139.95	0.999443	0.581757	0.594688
141	149.97	0.999373	0.586353	0.598532
142	159.97	0.999348	0.585025	0.595800
143	169.97	0.999297	0.586717	0.596404
144	179.98	0.999241	0.591464	0.601325
145	189.98	0.999218	0.591104	0.599956
146	249.78	0.998994	0.585541	0.593855

Containment Calculated Values

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

RDG	TIME	MASS	TEMP	VAPOR PRESS	PRESSURE
126	00:50:31	769663.70	69.770	0.2086	53.4795
127	01:00:32	769629.61	69.757	0.2086	53.4759
128	01:10:32	769599.12	69.743	0.2085	53.4722
129	01:20:32	769570.71	69.725	0.2086	53.4685
130	01:30:33	769529.96	69.716	0.2088	53.4650
131	01:40:33	769501.64	69.705	0.2087	53.4618
132	01:50:33	769466.09	69.694	0.2088	53.4584
133	02:00:34	769439.07	69.679	0.2088	53.4550
134	02:10:34	769394.76	69.675	0.2088	53.4515
135	02:20:34	769379.63	69.658	0.2087	53.4487
136	02:30:35	769339.03	69.649	0.2089	53.4451
137	02:40:35	769318.67	69.630	0.2088	53.4418
138	02:50:35	769287.49	69.617	0.2089	53.4384
139	03:00:18	769255.50	69.608	0.2089	53.4353
140	03:10:28	769234.63	69.593	0.2089	53.4322
141	03:20:29	769180.91	69.597	0.2090	53.4291
142	03:30:29	769161.78	69.578	0.2090	53.4259
143	03:40:29	769122.52	69.575	0.2089	53.4228
144	03:50:30	769079.15	69.572	0.2090	53.4196
145	04:00:30	769061.81	69.554	0.2091	53.4166
146	05:00:18	768889.80	69.492	0.2092	53.3986

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 126 - Oct 19 00:50:31

Pressures (psia)

1.. 2 53.483 53.476

Dew Points (volts)

1.. 8 2.9522 2.9409 2.9035 2.9083 2.8878 2.8563 2.8764 2.8677
9.. 10 2.8919 2.8653

Temperatures (ohms)

1.. 8 108.14 108.18 108.18 108.19 108.19 108.17 108.19 108.22
9.. 16 108.21 108.24 108.26 108.24 108.23 108.29 108.25 108.33
17.. 24 108.32 108.29 108.28 108.26 108.35 108.35 108.32 108.31
25.. 30 108.31 108.26 108.23 108.39 108.23 108.28

Reading # 127 - Oct 19 01:00:32

Pressures (psia)

1.. 2 53.479 53.473

Dew Points (volts)

1.. 8 2.9519 2.9426 2.9013 2.9113 2.8934 2.8558 2.8779 2.8713
9.. 10 2.8919 2.8673

Temperatures (ohms)

1.. 8 108.14 108.18 108.19 108.19 108.19 108.16 108.19 108.21
9.. 16 108.22 108.22 108.25 108.24 108.23 108.29 108.25 108.33
17.. 24 108.31 108.29 108.28 108.25 108.34 108.35 108.32 108.31
25.. 30 108.3 108.26 108.23 108.38 108.23 108.27

Reading # 128 - Oct 19 01:10:32

Pressures (psia)

1.. 2 53.473 53.469

Dew Points (volts)

1.. 8 2.9519 2.9415 2.9049 2.9126 2.8944 2.8571 2.8763 2.872
9.. 10 2.8919 2.8692

Temperatures (ohms)

1.. 8 108.14 108.18 108.18 108.19 108.18 108.16 108.19 108.21
9.. 16 108.2 108.21 108.25 108.24 108.22 108.29 108.24 108.33
17.. 24 108.31 108.29 108.27 108.25 108.34 108.35 108.32 108.3
25.. 30 108.31 108.25 108.24 108.38 108.23 108.27

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 129 - Oct 19 01:20:37

Pressures (psia)

1.. 2 53.472 53.465

Dew Points (volts)

1.. 4 2.953 2.9443 2.9081 2.9144 2.896 2.8601 2.8789 2.8747
9..10 2.8943 2.8698

Temperatures (ohms)

1.. 8 108.13 108.17 108.18 108.19 108.18 108.15 108.18 108.2
9..16 108.2 108.22 108.25 108.22 108.22 108.29 108.24 108.32
17..24 108.31 108.29 108.26 108.24 108.33 108.35 108.32 108.3
25..30 108.3 108.25 108.24 108.38 108.22 108.27

Reading # 130 - Oct 19 01:30:33

Pressures (psia)

1.. 2 53.468 53.462

Dew Points (volts)

1.. 8 2.9597 2.9445 2.9116 2.9148 2.8968 2.8616 2.8851 2.8763
9..10 2.897 2.8718

Temperatures (ohms)

1.. 8 108.13 108.17 108.18 108.19 108.18 108.15 108.18 108.2
9..16 108.2 108.22 108.24 108.23 108.21 108.27 108.24 108.32
17..24 108.3 108.29 108.26 108.25 108.33 108.34 108.31 108.3
25..30 108.3 108.25 108.24 108.38 108.22 108.27

Reading # 131 - Oct 19 01:40:33

Pressures (psia)

1.. 2 53.465 53.459

Dew Points (volts)

1.. 4 2.9564 2.9469 2.9127 2.9175 2.8979 2.8643 2.8871 2.8771
9..10 2.8973 2.8738

Temperatures (ohms)

1.. 8 108.13 108.16 108.17 108.18 108.17 108.15 108.17 108.2
9..16 108.19 108.22 108.24 108.22 108.21 108.29 108.24 108.31
17..24 108.31 108.3 108.26 108.24 108.33 108.34 108.31 108.3
25..30 108.3 108.24 108.23 108.37 108.22 108.27

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

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Reading # 132 - Oct 19 01:50:33

		Pressures (psia)							
1.. 2	53.462	53.455							
		Dew Points (volts)							
1.. 8	2.9566	2.9489	2.9161	2.9203	2.9022	2.8658	2.888	2.8817	
9..10	2.8984	2.8755							
		Temperatures (ohms)							
1.. 8	108.13	108.16	108.17	108.18	108.18	108.15	108.17	108.2	
9..16	108.19	108.21	108.24	108.22	108.22	108.27	108.23	108.31	
17..24	108.31	108.29	108.26	108.24	108.32	108.34	108.3	108.29	
25..30	108.3	108.24	108.23	108.37	108.22	108.26			

Reading # 133 - Oct 19 02:00:34

		Pressures (psia)							
1.. 2	53.458	53.452							
		Dew Points (volts)							
1.. 8	2.9604	2.9499	2.9178	2.9222	2.9007	2.8653	2.8893	2.8822	
9..10	2.8999	2.8755							
		Temperatures (ohms)							
1.. 8	108.12	108.16	108.17	108.18	108.17	108.14	108.17	108.2	
9..16	108.19	108.2	108.24	108.22	108.2	108.27	108.23	108.32	
17..24	108.29	108.28	108.26	108.24	108.32	108.33	108.3	108.29	
25..30	108.29	108.24	108.24	108.37	108.22	108.26			

Reading # 134 - Oct 19 02:10:34

		Pressures (psia)							
1.. 2	53.455	53.448							
		Dew Points (volts)							
1.. 8	2.9631	2.9522	2.9162	2.9239	2.9056	2.8678	2.8894	2.8831	
9..10	2.9003	2.8791							
		Temperatures (ohms)							
1.. 8	108.12	108.16	108.16	108.17	108.16	108.15	108.17	108.2	
9..16	108.19	108.2	108.23	108.22	108.21	108.27	108.23	108.31	
17..24	108.3	108.3	108.25	108.23	108.32	108.32	108.31	108.29	
25..30	108.3	108.24	108.24	108.37	108.21	108.25			

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 135 - Oct 19 02:20:34

Pressures (psia)								
1.. 2	53.452	53.446						
Dew Points (volts)								
1.. 8	2.96	2.9547	2.9201	2.9243	2.9073	2.8727	2.8891	2.8849
9..10	2.9026	2.8786						
Temperatures (ohms)								
1.. 8	108.12	108.16	108.16	108.17	108.16	108.15	108.16	108.19
9..16	108.19	108.2	108.23	108.21	103.22	108.27	108.23	108.3
17..24	108.29	108.29	108.25	108.22	108.31	108.32	108.3	108.28
25..30	108.28	108.23	108.23	108.38	108.21	108.25		

Reading # 136 - Oct 19 02:30:35

Pressures (psia)								
1.. 2	53.448	53.442						
Dew Points (volts)								
1.. 8	2.9658	2.9535	2.9213	2.9276	2.9099	2.873	2.8881	2.8865
9..10	2.9022	2.8798						
Temperatures (ohms)								
1.. 8	108.11	108.16	108.16	108.18	108.16	108.14	108.16	108.19
9..16	108.18	108.2	108.23	108.21	108.21	108.26	108.22	108.3
17..24	108.29	108.27	108.26	108.23	108.31	108.32	108.29	108.29
25..30	108.28	108.24	108.22	108.38	108.21	108.25		

Reading # 137 - Oct 19 02:40:35

Pressures (psia)								
1.. 2	53.445	53.439						
Dew Points (volts)								
1.. 8	2.9641	2.9546	2.925	2.9306	2.9102	2.8734	2.8926	2.8883
9..10	2.9041	2.8807						
Temperatures (ohms)								
1.. 8	108.11	108.15	108.16	108.16	108.16	108.13	108.16	108.19
9..16	108.18	108.19	108.22	108.2	108.2	108.26	108.22	108.3
17..24	108.29	108.28	108.25	108.22	108.31	108.32	108.29	108.28
25..30	108.28	108.23	108.23	108.37	108.21	108.24		

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 138 - Oct 19 02:50:35

Pressures (psia)

1.. 2 53.441 53.435

Dew Points (volts)

1.. 8 2.9696 2.9566 2.9253 2.9303 2.9097 2.8764 2.8953 2.8881
9..10 2.9055 2.8829

Temperatures (ohms)

1.. 8 108.11 108.15 108.15 108.16 108.15 108.13 108.16 108.18
9..16 108.18 108.19 108.22 108.2 108.19 108.26 108.22 108.29
17..24 108.29 108.27 108.25 108.22 108.31 108.31 108.29 108.28
25..30 108.28 108.23 108.22 108.37 108.2 108.25

Reading # 139 - Oct 19 03:00:18

Pressures (psia)

1.. 2 53.439 53.432

Dew Points (volts)

1.. 8 2.9706 2.9581 2.9243 2.9322 2.9145 2.879 2.8954 2.8899
9..10 2.9074 2.882

Temperatures (ohms)

1.. 8 108.1 108.15 108.14 108.16 108.15 108.13 108.15 108.19
9..15 108.17 108.19 108.22 108.21 108.19 108.26 108.22 108.3
17..24 108.28 108.28 108.24 108.22 108.3 108.31 108.29 108.28
25..30 108.28 108.23 108.21 108.37 108.2 108.25

Reading # 140 - Oct 19 03:10:28

Pressures (psia)

1.. 2 53.435 53.429

Dew Points (volts)

1.. 8 2.9742 2.9605 2.9251 2.934 2.9157 2.8766 2.8944 2.8033
9..10 2.9069 2.8860

Temperatures (ohms)

1.. 8 108.1 108.15 108.14 108.16 108.15 108.13 108.15 108.18
9..16 108.17 108.19 108.22 108.2 108.19 108.25 108.21 108.29
17..24 108.27 108.26 108.24 108.21 108.3 108.31 108.29 108.28
25..30 108.28 108.22 108.21 108.35 108.2 108.24

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 141 - Oct 19 03:20:29

Pressures (psia)								
1.. 2	53.432	53.426						
Dew Points (volts)								
1.. 8	2.9733	2.96	2.9302	2.9353	2.9178	2.8774	2.8962	2.8965
9..10	2.9084	2.8856						
Temperatures (ohms)								
1.. 8	108.1	108.14	108.15	108.16	108.15	108.12	108.15	108.18
9..16	108.17	108.19	108.22	108.2	108.19	108.25	108.22	108.28
17..24	108.27	108.27	108.24	108.22	108.3	108.31	108.29	108.28
25..30	108.28	108.22	108.22	108.36	108.2	108.25		

Reading # 142 - Oct 19 03:30:29

Pressures (psia)								
1.. 2	53.429	53.423						
Dew Points (volts)								
1.. 8	2.9547	2.9621	2.9285	2.9367	2.9185	2.8827	2.8992	2.8934
9..10	2.9095	2.8867						
Temperatures (ohms)								
1.. 8	108.1	108.14	108.14	108.16	108.15	108.13	108.15	108.17
9..16	108.16	108.19	108.21	108.19	108.19	108.24	108.21	108.29
17..24	108.27	108.25	108.24	108.22	108.29	108.3	108.28	108.28
25..30	108.27	108.22	108.22	108.36	108.2	108.24		

Reading # 143 - Oct 19 03:40:29

Pressures (psia)								
1.. 2	53.426	53.42						
Dew Points (volts)								
1.. 8	2.9722	2.963	2.9334	2.9357	2.9181	2.8819	2.8989	2.8951
9..10	2.9105	2.8882						
Temperatures (ohms)								
1.. 8	108.1	108.14	108.14	108.15	108.14	108.12	108.14	108.17
9..16	108.16	108.18	108.21	108.2	108.18	108.25	108.21	108.29
17..24	108.27	108.28	108.23	108.21	108.29	108.31	108.29	108.27
25..30	108.27	108.22	108.22	108.37	108.19	108.24		

Raw Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

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Reading # 144 - Oct 19 03:50:30

Pressures (psia)

1.. 2 53.423 53.416

Dew Points (volts)

1.. 8 2.9741 2.9635 2.9332 2.9382 2.916 2.8827 2.9019 2.8964
9..10 2.912 2.8912

Temperatures (ohms)

1.. 8 108.09 108.14 108.14 108.16 108.14 108.12 108.14 108.18
9..16 108.16 108.19 108.21 108.2 108.19 108.25 108.21 108.29
17..24 108.27 108.26 108.23 108.21 108.29 108.3 108.28 108.27
25..30 108.27 108.21 108.21 108.36 108.2 108.24

Reading # 145 - Oct 19 04:00:30

Pressures (psia)

1.. 2 53.42 53.411

Dew Points (volts)

1.. 8 2.9773 2.9664 2.9355 2.9405 2.9239 2.8842 2.9051 2.8996
9..10 2.9132 2.8912

Temperatures (ohms)

1.. 8 108.09 108.14 108.14 108.15 108.14 108.11 108.14 108.17
9..16 108.16 108.18 108.21 108.19 108.18 108.24 108.2 108.28
17..24 108.27 108.25 108.23 108.21 108.29 108.3 108.28 108.27
25..30 108.26 108.22 108.21 108.36 108.19 108.24

Reading # 146 - Oct 19 05:00:18

Pressures (psia)

1.. 2 53.402 53.396

Dew Points (volts)

1.. 8 2.9854 2.9728 2.9463 2.9487 2.9312 2.8936 2.9109 2.9086
9..10 2.9191 2.8967

Temperatures (ohms)

1.. 8 108.08 108.12 108.12 108.14 108.13 108.11 108.13 108.15
9..16 108.14 108.17 108.2 108.18 108.17 108.23 108.19 108.27
17..24 108.25 108.23 108.21 108.19 108.27 108.28 108.27 108.25
25..30 108.25 108.21 108.2 108.34 108.19 108.23

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

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Reading # 126 - Oct 19 00:50:31

Pressures (PSIA)								
1.. 2	53.483	53.476						
Dew Points (°F)								
1.. 8	54.439	54.384	54.23	54.425	54.321	54.149	54.284	54.233
9..10	54.431	54.197						
Temperatures (°F)								
1.. 8	69.321	69.313	69.351	69.405	69.389	69.458	69.595	69.706
9..16	69.615	69.775	69.74	69.824	69.767	69.816	69.87	70.008
17..24	69.877	69.908	69.947	69.981	70.21	70.294	69.954	70.099
25..30	69.947	69.962	69.546	70.511	69.55	69.843		

Reading # 127 - Oct 19 01:00:32

Pressures (PSIA)								
1.. 2	53.479	53.473						
Dew Points (°F)								
1.. 8	54.479	54.4	54.252	54.368	54.374	54.144	54.298	54.224
9..10	54.388	54.211						
Temperatures (°F)								
1.. 8	69.321	69.313	69.397	69.405	69.389	69.412	69.595	69.66
9..16	69.66	69.683	69.694	69.824	69.767	69.816	69.87	70.008
17..24	69.832	69.908	69.947	69.935	70.164	70.294	69.954	70.099
25..30	69.901	69.962	69.546	70.466	69.55	69.798		

Reading # 128 - Oct 19 01:10:32

Pressures (PSIA)								
1.. 2	53.475	53.469						
Dew Points (°F)								
1.. 8	54.42	54.39	54.2	54.337	54.34	54.156	54.24	54.231
9..10	54.452	54.187						
Temperatures (°F)								
1.. 8	69.321	69.313	69.351	69.405	69.344	69.412	69.595	69.66
9..16	69.569	69.637	69.694	69.824	69.721	69.816	69.824	70.008
17..24	69.832	69.908	69.901	69.935	70.164	70.294	69.954	70.053
25..30	69.947	69.916	69.592	70.466	69.55	69.798		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 129 - Oct 19 01:20:32

Pressures (PSIA)

1.. 2 53.472 53.465

Dew Points (°F)

1.. 8 54.447 54.416 54.231 54.397 54.356 54.142 54.222 54.214
9..10 54.411 54.192

Temperatures (°F)

1.. 8 69.275 69.267 69.351 69.405 69.344 69.366 69.55 69.615
9..16 69.569 69.683 69.694 69.733 69.721 69.816 69.824 69.962
17..24 69.832 69.908 69.855 69.889 70.118 70.294 69.954 70.053
25..30 69.901 69.916 69.592 70.466 69.504 69.798

Reading # 130 - Oct 19 01:30:33

Pressures (PSIA)

1.. 2 53.468 53.462

Dew Points (°F)

1.. 8 54.509 54.418 54.264 54.401 54.363 54.157 54.281 54.272
9..10 54.436 54.211

Temperatures (°F)

1.. 8 69.275 69.267 69.351 69.405 69.344 69.366 69.55 69.615
9..16 69.569 69.683 69.649 69.779 69.676 69.725 69.824 69.962
17..24 69.786 69.908 69.855 69.935 70.118 70.249 69.908 70.053
25..30 69.901 69.916 69.592 70.466 69.504 69.798

Reading # 131 - Oct 19 01:40:33

Pressures (PSIA)

1.. 2 53.465 53.459

Dew Points (°F)

1.. 8 54.435 54.397 54.231 54.426 54.374 54.14 54.3 54.237
9..10 54.439 54.188

Temperatures (°F)

1.. 8 69.275 69.222 69.305 69.359 69.298 69.366 69.504 69.615
9..16 69.523 69.683 69.649 69.733 69.676 69.816 69.824 69.916
17..24 69.832 69.954 69.855 69.889 70.118 70.249 69.908 70.053
25..30 69.901 69.87 69.546 70.42 69.504 69.798

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Page 3 of 7

Reading # 132 - Oct 19 01:50:33

Pressures (PSIA)								
1.. 2	53.462	53.455						
Dew Points (°F)								
1.. 8	54.437	54.416	54.263	54.41	54.371	54.154	54.308	54.281
9..10	54.45	54.204						
Temperatures (°F)								
1.. 8	69.275	69.222	69.305	69.359	69.344	69.366	69.504	69.615
9..16	69.523	69.637	69.649	69.733	69.721	69.725	69.779	69.916
17..24	69.832	69.908	69.855	69.889	70.072	70.249	69.862	70.008
25..30	69.901	69.87	69.546	70.42	69.504	69.752		

Reading # 133 - Oct 19 02:00:34

Pressures (PSIA)								
1.. 2	53.458	53.452						
Dew Points (°F)								
1.. 8	54.472	54.425	54.279	54.385	54.357	54.192	54.321	54.285
9..10	54.421	54.204						
Temperatures (°F)								
1.. 8	69.229	69.222	69.305	69.359	69.298	69.321	69.504	69.615
9..16	69.523	69.592	69.649	69.733	69.63	69.725	69.779	69.962
17..24	69.74	69.862	69.855	69.889	70.072	70.203	69.862	70.008
25..30	69.855	69.87	69.592	70.42	69.504	69.752		

Reading # 134 - Oct 19 02:10:34

Pressures (PSIA)								
1.. 2	53.455	53.448						
Dew Points (°F)								
1.. 8	54.454	54.404	54.264	54.4	54.403	54.173	54.279	54.251
9..10	54.468	54.238						
Temperatures (°F)								
1.. 8	69.229	69.222	69.26	69.313	69.252	69.366	69.504	69.615
9..16	69.523	69.592	69.603	69.733	69.676	69.725	69.779	69.916
17..24	69.786	69.954	69.809	69.843	70.072	70.157	69.908	70.008
25..30	69.901	69.87	69.592	70.42	69.458	69.706		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Page 4 of 7

Reading # 135 - Oct 19 02:20:34

Pressures (PSIA)

1.. 2 53.452 53.446

Dew Points (°F)

1.. 8 54.426 54.427 54.301 54.404 54.419 54.177 54.276 54.225
9..10 54.404 54.191

Temperatures (°F)

1.. 8 69.229 69.222 69.26 69.313 69.252 69.366 69.458 69.569
9..16 69.523 69.592 69.603 69.687 69.721 69.725 69.779 69.87
17..24 69.74 69.908 69.809 69.798 70.027 70.157 69.862 69.962
25..30 69.809 69.824 69.546 70.466 69.458 69.706

Reading # 136 - Oct 19 07:30:35

Pressures (PSIA)

1.. 2 53.448 53.442

Dew Points (°F)

1.. 8 54.479 54.468 54.269 54.435 54.401 54.18 54.309 54.283
9..10 54.4 54.245

Temperatures (°F)

1.. 8 69.183 69.222 69.26 69.359 69.252 69.321 69.458 69.569
9..16 69.477 69.592 69.603 69.687 69.676 69.679 69.733 69.87
17..24 69.74 69.817 69.855 69.843 70.027 70.157 69.816 70.008
25..30 69.809 69.87 69.5 70.466 69.458 69.706

Reading # 137 - Oct 19 02:40:35

Pressures (PSIA)

1.. 2 53.445 53.439

Dew Points (°F)

1.. 8 54.463 54.383 54.304 54.42 54.404 54.184 54.309 54.258
9..10 54.418 54.211

Temperatures (°F)

1.. 8 69.183 69.176 69.26 69.267 69.252 69.275 69.458 69.569
9..16 69.477 69.546 69.557 69.641 69.63 69.679 69.733 69.87
17..24 69.74 69.862 69.809 69.798 70.027 70.157 69.816 69.962
25..30 69.809 69.824 69.546 70.42 69.458 69.66

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 138 - Oct 19 02:50:35

Pressures (PSIA)								
1.. 2	53.441	53.435						
Dew Points (°F)								
1.. 8	54.471	54.401	54.306	54.417	54.399	54.17	54.335	54.256
9..10	54.431	54.231						
Temperatures (°F)								
1.. 8	69.183	69.176	69.214	69.267	69.206	69.275	69.458	69.523
9..16	69.477	69.546	69.557	69.641	69.584	69.679	69.733	69.824
17..24	69.74	69.817	69.809	69.798	70.027	70.111	69.816	69.962
25..30	69.809	69.824	69.5	70.42	69.412	69.706		

Reading # 139 - Oct 19 03:00:18

Pressures (PSIA)								
1.. 2	53.439	53.432						
Dew Points (°F)								
1.. 8	54.438	54.415	54.254	54.435	54.444	54.237	54.293	54.273
9..10	54.449	54.223						
Temperatures (°F)								
1.. 8	69.137	69.176	69.168	69.267	69.206	69.275	69.412	69.569
9..16	69.431	69.546	69.557	69.687	69.584	69.679	69.733	69.87
17..24	69.694	69.771	69.763	69.798	69.91	70.111	69.816	69.962
25..30	69.809	69.824	69.454	70.42	69.412	69.706		

Reading # 140 - Oct 19 03:10:28

Pressures (PSIA)								
1.. 2	53.435	53.429						
Dew Points (°F)								
1.. 8	54.471	54.438	54.262	54.452	54.413	54.172	54.283	54.262
9..10	54.444	54.226						
Temperatures (°F)								
1.. 8	69.137	69.176	69.168	69.267	69.200	69.275	69.412	69.523
9..16	69.431	69.546	69.557	69.641	69.584	69.633	69.687	69.824
17..24	69.649	69.771	69.763	69.752	69.981	70.111	69.816	69.962
25..30	69.809	69.779	69.454	70.328	69.412	69.66		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION

Unit No. 1

Reading # 141 - Oct 19 03:20:29

Pressures (PSIA)								
1.. 2	53.432	53.426						
Dew Points (°F)								
1.. 8	54.505	54.433	54.309	54.464	54.475	54.136	54.3	54.335
9..10	54.458	54.214						
Temperatures (°F)								
1.. 8	69.137	69.13	69.214	69.267	69.206	69.229	69.412	69.523
9..16	69.431	69.546	69.557	69.641	69.584	69.633	69.733	69.779
17..24	69.649	69.817	69.763	69.798	69.981	70.111	69.816	69.962
25..30	69.809	69.779	69.5	70.374	69.412	69.706		

Reading # 142 - Oct 19 03:30:29

Pressures (PSIA)								
1.. 2	53.429	53.423						
Dew Points (°F)								
1.. 8	54.475	54.452	54.252	54.477	54.439	54.23	54.329	54.306
9..10	54.426	54.225						
Temperatures (°F)								
1.. 8	69.137	69.13	69.168	69.267	69.206	69.275	69.412	69.477
9..16	69.386	69.546	69.511	69.595	69.584	69.588	69.687	69.824
17..24	69.649	69.725	69.763	69.798	69.935	70.065	69.771	69.962
25..30	69.763	69.779	69.5	70.374	69.412	69.66		

Reading # 143 - Oct 19 03:40:29

Pressures (PSIA)								
1.. 2	53.426	53.42						
Dew Points (°F)								
1.. 8	54.452	54.418	54.296	54.425	54.435	54.222	54.283	54.279
9..10	54.435	54.239						
Temperatures (°F)								
1.. 8	69.137	69.13	69.168	69.222	69.161	69.229	69.366	69.477
9..16	69.386	69.5	69.511	69.641	69.538	69.633	69.687	69.824
17..24	69.649	69.862	69.718	69.752	69.935	70.111	69.816	69.916
25..30	69.763	69.779	69.5	70.42	69.366	69.66		

Calibrated Instrument Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Reading # 144 - Oct 19 03:50:30

		Pressures (PSIA)							
1.. 2	53.423	53.416							
		Dew Points (°F)							
1.. 8	54.47	54.465	54.295	54.491	54.416	54.23	54.311	54.291	
9..10	54.449	54.224							
		Temperatures (°F)							
1.. 8	69.092	69.13	69.168	69.267	69.161	69.229	69.366	69.223	
9..16	69.386	69.546	69.511	69.641	69.584	69.633	69.687	69.824	
17..24	69.649	69.771	69.718	69.752	69.935	70.065	69.771	69.916	
25..30	69.763	69.733	69.454	70.374	69.412	69.66			

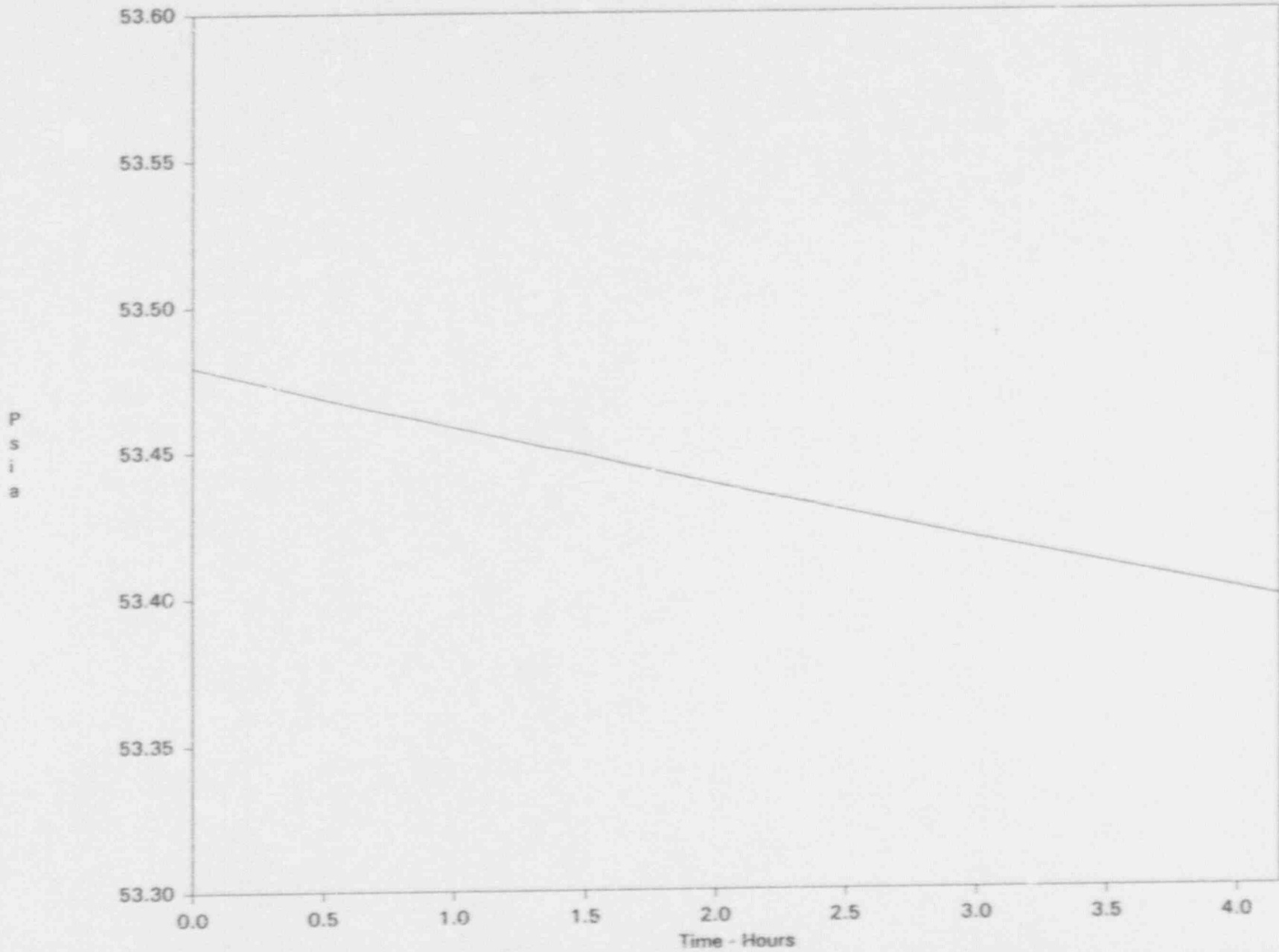
Reading # 145 - Oct 19 04:00:30

		Pressures (PSIA)							
1.. 2	53.42	53.413							
		Dew Points (°F)							
1.. 8	54.499	54.449	54.316	54.47	54.447	54.201	54.342	54.322	
9..10	54.418	54.267							
		Temperatures (°F)							
1.. 8	69.092	69.13	69.168	69.222	69.161	69.183	69.366	69.477	
9..16	69.386	69.5	69.511	69.595	69.538	69.588	69.641	69.779	
17..24	69.649	69.725	69.718	69.752	69.935	70.065	69.771	69.916	
25..30	69.718	69.779	69.454	70.374	69.366	69.66			

Reading # 146 - Oct 19 05:00:18

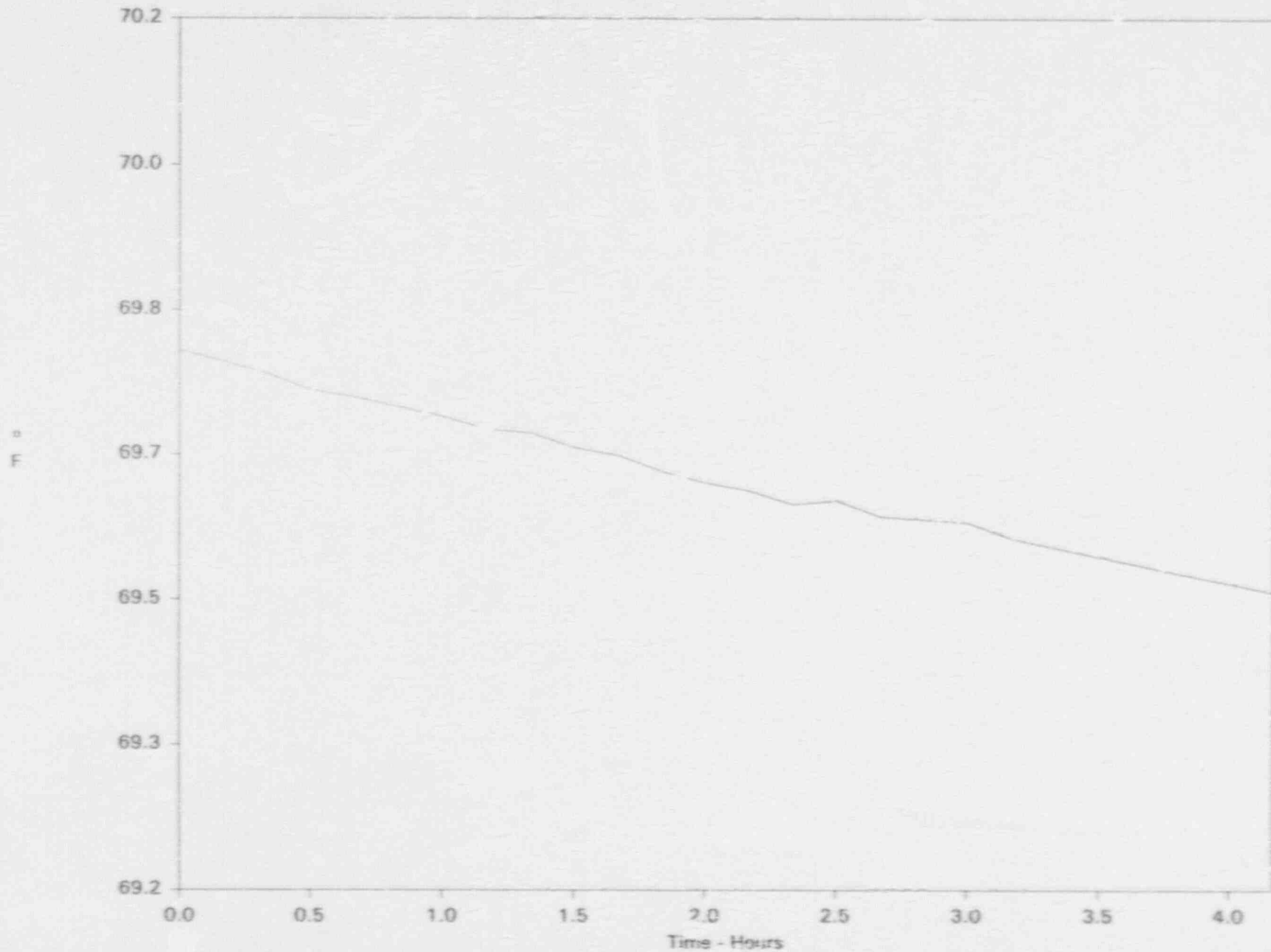
		Pressures (PSIA)							
1.. 2	53.402	53.396							
		Dew Points (°F)							
1.. 8	54.488	54.465	54.331	54.503	54.472	54.247	54.311	54.321	
9..10	54.43	54.277							
		Temperatures (°F)							
1.. 8	69.046	69.030	69.076	69.176	69.115	69.183	69.321	69.386	
9..16	69.294	69.454	69.466	69.55	69.492	69.542	69.595	69.733	
17..24	69.557	69.634	69.526	69.66	69.843	69.974	69.725	69.824	
25..30	69.672	69.733	69.408	70.282	69.366	69.614			

Average Pressure
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



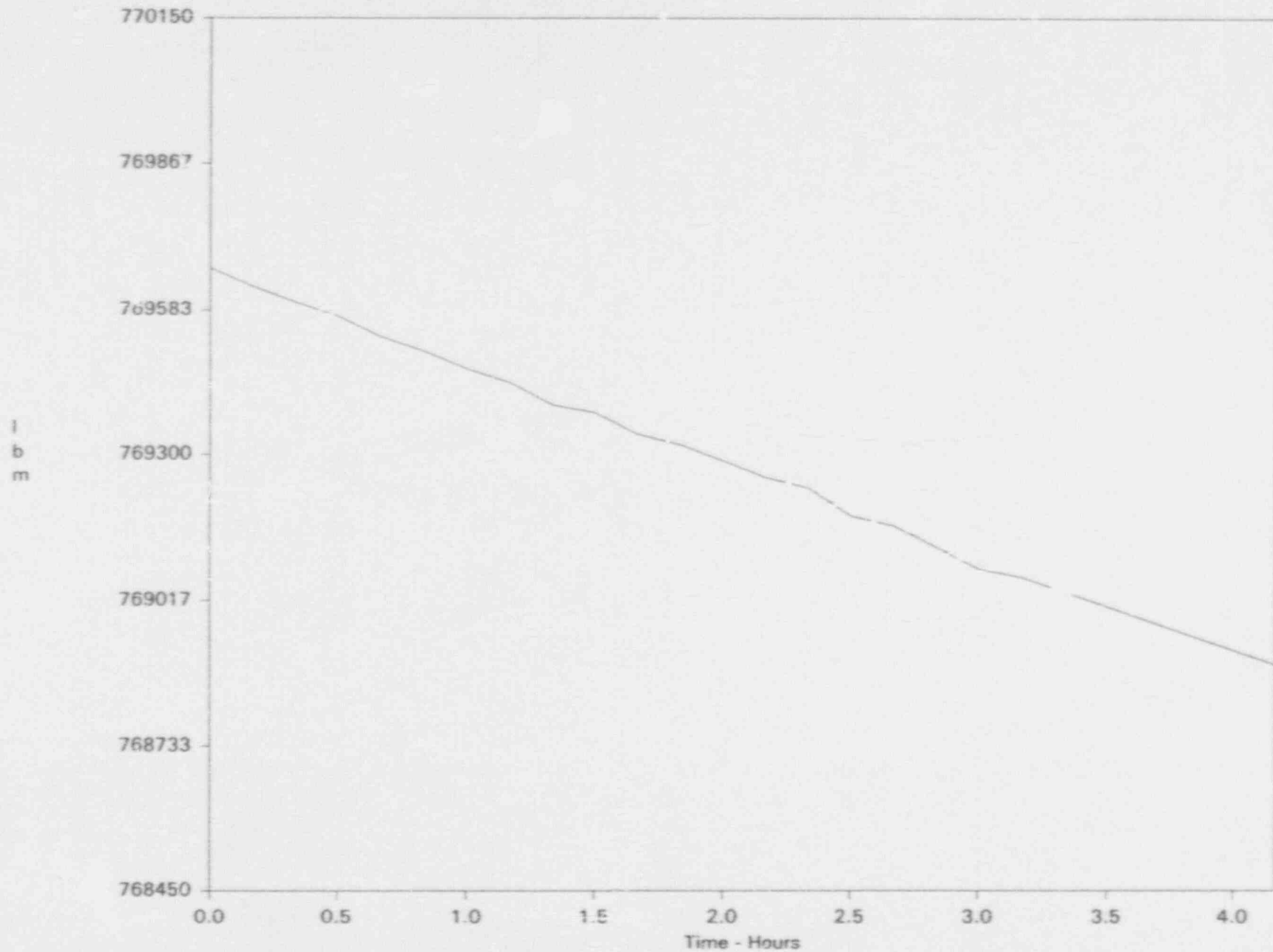
Average Temperature

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

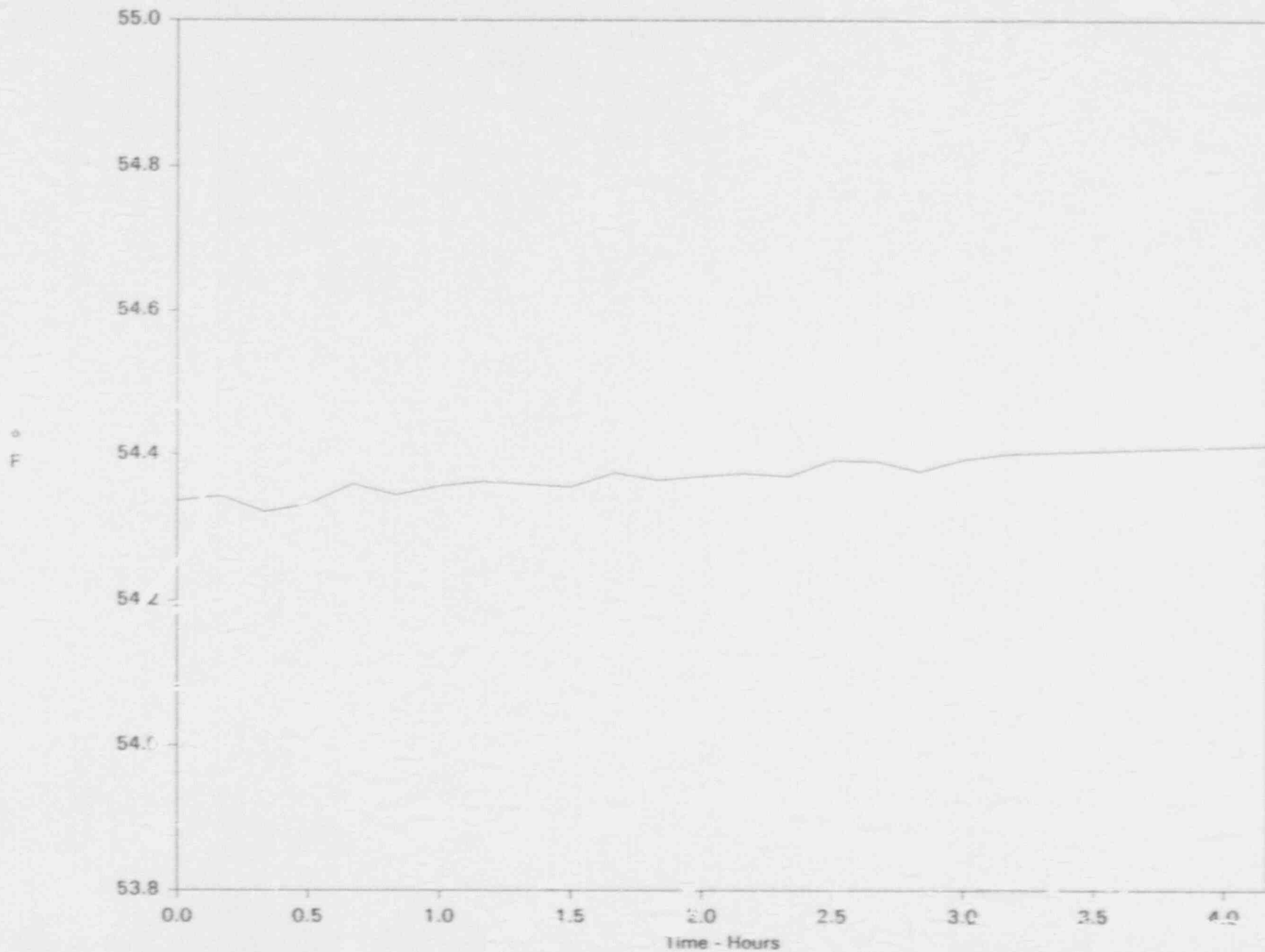


Containment Mass

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

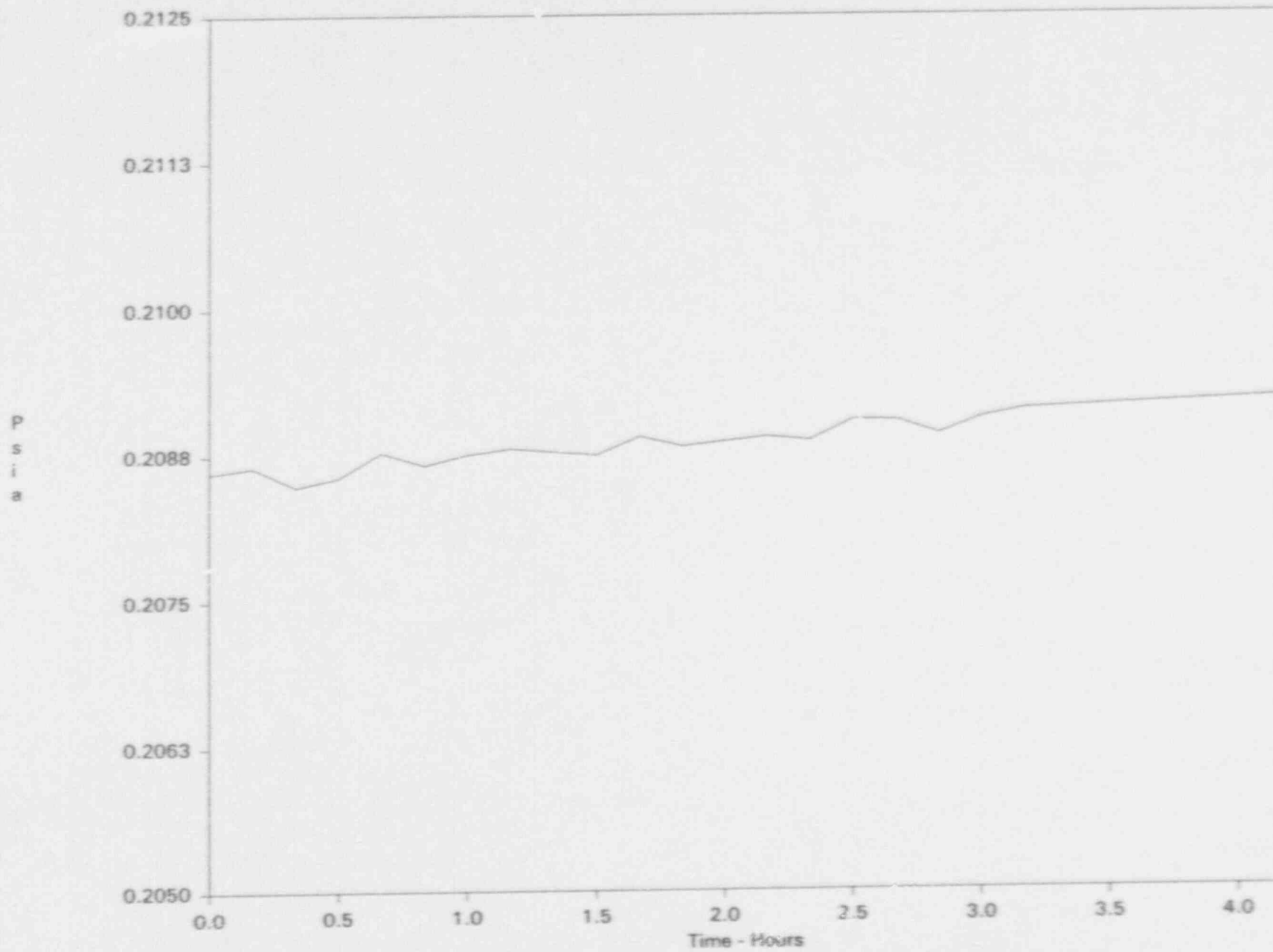


Average Dew Point
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



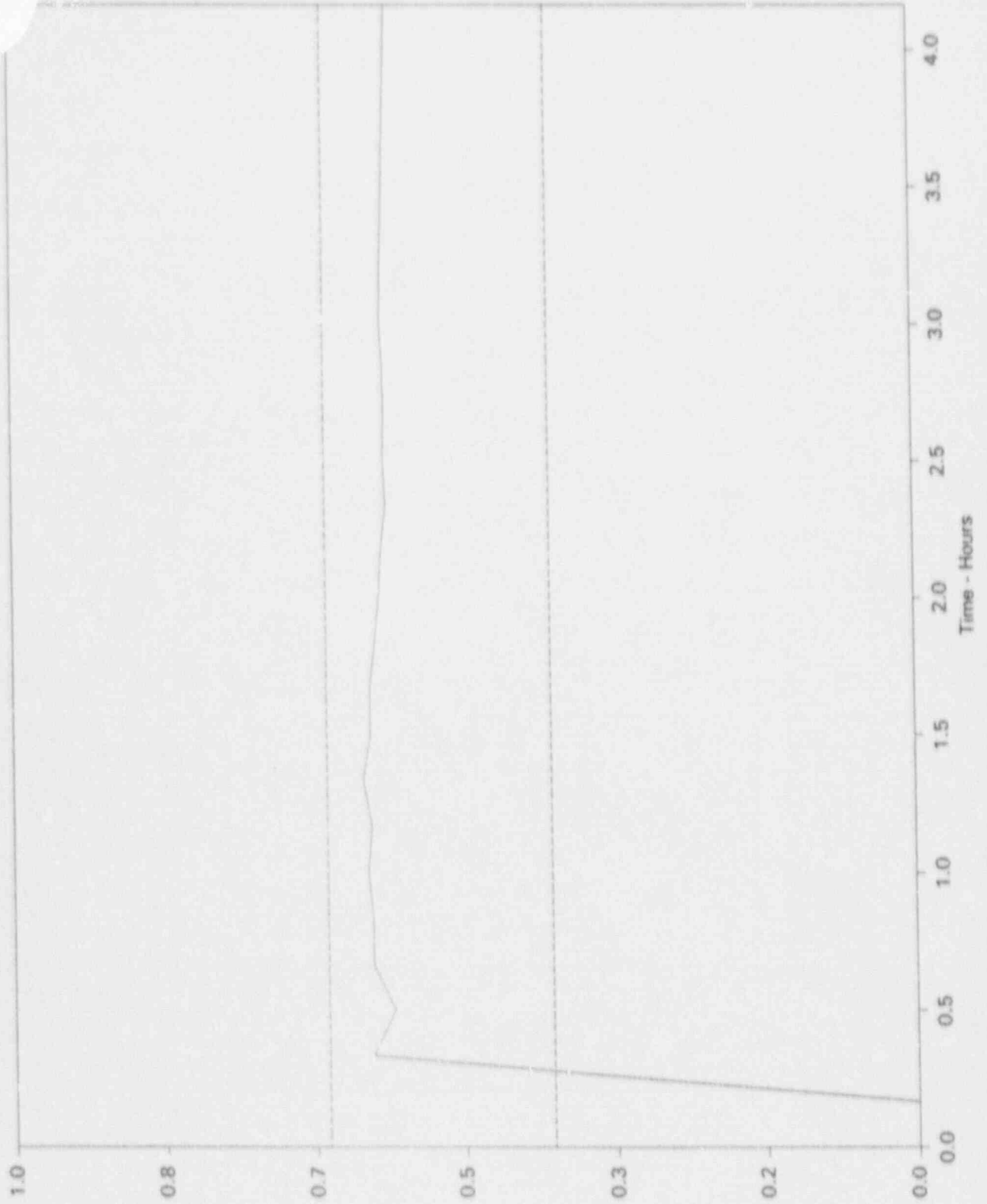
Average Vapor Pressure

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Calculated Total Time Leak

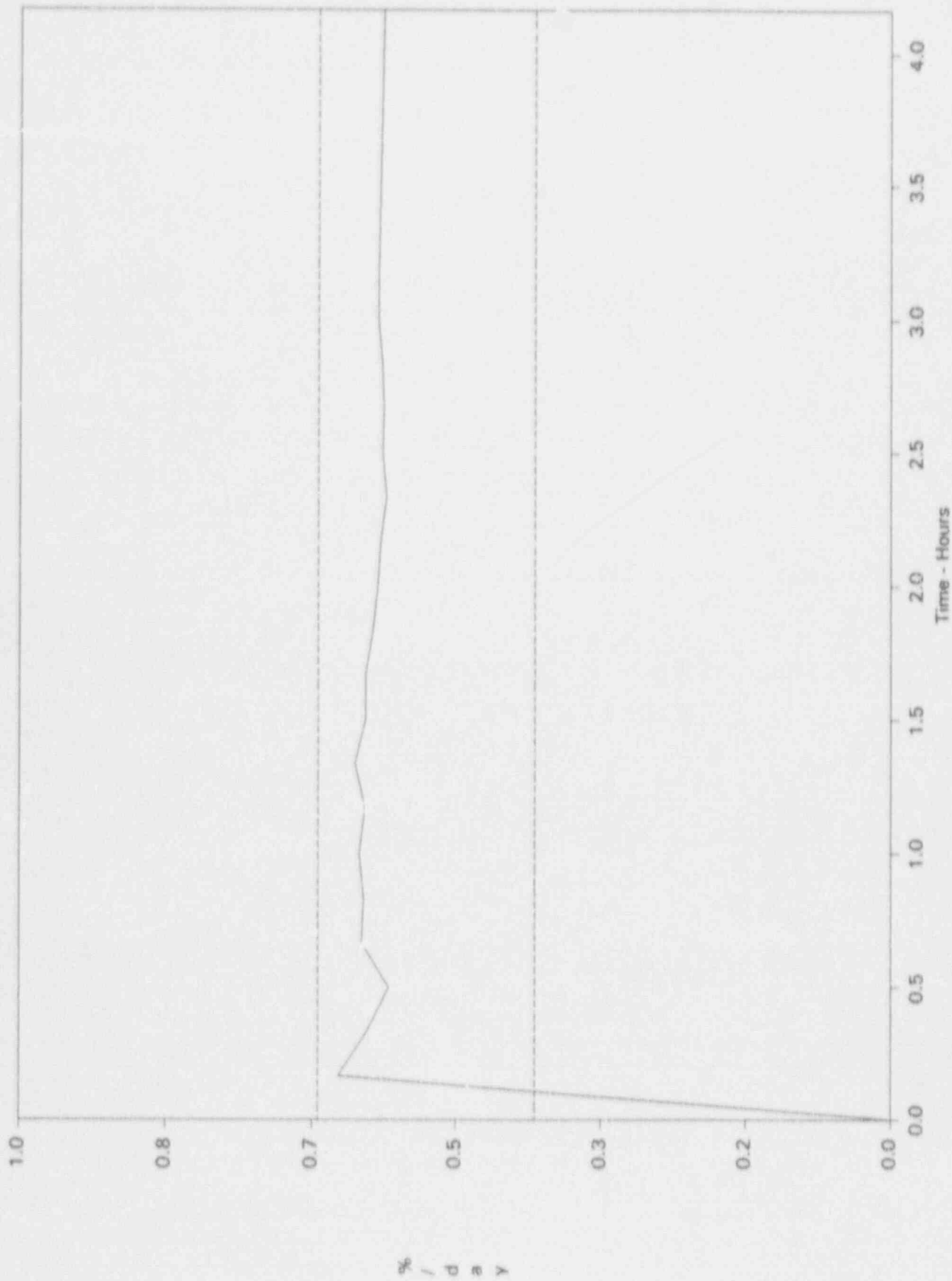
DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



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Mass Point Leak

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1



Configuration Data

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

Page 1 of 1

Station Name - DAVIS-BESSE NUCLEAR POWER STATION
Unit Name - Unit No. 1
Containment Volume = 2834000.00 cubic feet
Imposed Leak = 0.50497 %/day
La (Lt) = 0.500 %/day
Test Pressure = 38.00 PSIG
Total # Sensors = 42
Total # Press. = 2
Total # Dew Pt. = 10
Total # Temp. = 30
Start Temp Stab Rdg = 79, End Temp Stab Rdg = 95
Start Leak Rate Test Rdg = 95, End Leak Rate Test Rdg = 120
Start Verif. Test Rdg = 126, End Verif. Test Rdg = 146
Raw Data File - DB1091.RDA Test Data File - DB1091.TDA..

Sensor Information

DAVIS-BESSE NUCLEAR POWER STATION
Unit No. 1

			Pressures					
U CHAN	SERIAL	VOL FRACT	C0	C1	C2	C3	C4	
1	1001	IC 1.03.064	0.500000	0.0	1.0	-	-	-
2	1002	IC 1.03.065	0.500000	0.0	1.0	-	-	-

			Dew Points					
U CHAN	SERIAL	VOL FRACT	C0	C1	C2	C3	C4	
1	40	IC 4.09.104	0.110886	0.0	20.0	-	-	-
2	41	IC 4.09.104	0.110885	0.0	20.0	-	-	-
3	42	IC 4.09.104	0.112430	0.0	20.0	-	-	-
4	43	IC 4.09.104	0.112429	0.0	20.0	-	-	-
5	44	IC 4.09.104	0.112430	0.0	20.0	-	-	-
6	45	IC 4.09.105	0.112429	0.0	20.0	-	-	-
7	46	IC 4.09.105	0.101799	0.0	20.0	-	-	-
8	47	IC 4.09.105	0.101800	0.0	20.0	-	-	-
9	48	IC 4.09.105	0.062456	0.0	20.0	-	-	-
10	49	IC 4.09.105	0.062456	0.0	20.0	-	-	-

			Temperatures					
U CHAN	SERIAL	VOL FRACT	C0	C1	C2	C3	C4	
1	30	IC 2.02.107	0.036962	-425.9750	4.5801330	-	-	-
2	1	IC 2.02.141	0.036962	-425.66050	4.5754640	-	-	-
3	2	IC 2.02.134	0.036962	-426.12630	4.5801210	-	-	-
4	3	IC 2.02.102	0.036962	-425.61470	4.5754640	-	-	-
5	4	IC 2.02.132	0.036961	-425.63240	4.5754860	-	-	-
6	5	IC 2.02.110	0.036962	-425.9750	4.5801330	-	-	-
7	6	IC 2.02.125	0.037477	-425.92920	4.5801330	-	-	-
8	7	IC 2.02.133	0.037477	-425.70320	4.5777980	-	-	-
9	8	IC 2.02.140	0.037476	-425.7490	4.5777980	-	-	-
10	9	IC 2.02.111	0.037477	-426.22890	4.5824450	-	-	-
11	10	IC 2.02.139	0.037476	-425.60080	4.5754760	-	-	-
12	11	IC 2.02.123	0.037476	-425.92920	4.5801330	-	-	-
13	12	IC 2.02.116	0.037477	-425.68920	4.5778090	-	-	-
14	13	IC 2.02.138	0.037477	-425.66050	4.5754640	-	-	-
15	14	IC 2.02.124	0.037476	-425.92920	4.5801330	-	-	-
16	15	IC 2.02.117	0.037477	-426.15820	4.5801330	-	-	-
17	16	IC 2.02.127	0.037476	-425.73810	4.5754760	-	-	-
18	17	IC 2.02.131	0.037476	-425.56890	4.5754640	-	-	-
19	18	IC 2.02.135	0.033933	-425.98890	4.5801210	-	-	-
20	19	IC 2.02.136	0.033933	-425.61170	4.5777980	-	-	-
21	20	IC 2.02.109	0.033933	-425.79480	4.5777980	-	-	-
22	21	IC 2.02.104	0.033933	-426.21510	4.5824590	-	-	-
23	22	IC 2.02.121	0.033934	-425.66050	4.5754640	-	-	-
24	23	IC 2.02.137	0.033933	-425.9750	4.5801330	-	-	-
25	24	IC 2.02.115	0.020819	-426.12630	4.5801210	-	-	-
26	25	IC 2.02.114	0.020819	-425.88340	4.5801330	-	-	-
27	26	IC 2.02.128	0.020818	-426.41220	4.5824450	-	-	-
28	27	IC 2.02.129	0.020818	-425.92920	4.5801330	-	-	-
29	28	IC 2.02.122	0.020819	-426.15820	4.5801330	-	-	-
30	29	IC 2.02.130	0.020819	-425.84060	4.5777980	-	-	-

APPENDIX B

Summary of 1990 and 1991

Local Leak Rate Tests (LLRT)

Introduction

Appendix B summarizes the results of the Local Leak Rate Test (LLRT) data which was obtained from periodic testing performed since the September 1988 periodic Type A test. Data is provided for surveillance testing performed in 1990 and 1991. The leakage rates that are listed in Appendix B are individual valve measurements unless otherwise noted.

The acceptance criteria for Types B and C testing is in accordance with 10CFR50, Appendix J. The combined leakage rate for all penetrations and valves subject to Types B and C tests in 1990/1991 were well below the acceptance criteria of less than 0.60L_a.

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-1	Pressurizer Sample	C	RC240A(IC) RC240B(OC)	1 1	0/2-22-90 0/2-22-90	0/2-22-90 0/4-16-90
P-3	Component Cooling Supply	C	CC1411A(IC) CC1411B(OC)	12 12	0/2-16-90 Combined	0/4-20-90 Combined
P-4	Component Cooling Return	C	CC1407A(IC) CC1407B(OC)	12 12	7420/4-3-90 * Indeterminate	5300/4-14-90 Combined
P-8A	Containment Vessel Vac. Br.	C	CV5070(OC) CV5080(OC)	8 8	29791/2-21-90 42/2-21-90	0/5-16-90 Combined
P-8B	Containment Vessel Vac. Br.	C	CV5071(OC) CV5081(OC)	8 8	20110/2-21-90 4876/2-21-90	233/5-17-90 0/5-22-90
P-8C	Containment Vessel Vac. Br.	C	CV5072(OC) CV5082(OC)	8 8	1153/2-21-90 1046/2-21-90	64/4-10-90 1046/2-21-90
P-8D	Containment Vessel Vac. Br.	C	CV5073(OC) CV5083(OC)	8 8	64/2-21-90 81/2-21-90	64/2-21-90 81/2-21-90
P-8E	Containment Vessel Vac. Br.	C	CV5074(OC) CV5084(OC)	8 8	82244/2-21-90 4876/2-21-90	0/5-16-90 Combined
P-8F	Containment Vessel Vac. Br.	C	CV5075(OC) CV5985(OC)	8 8	636/2-19-90 350/2-19-90	95/3-31-90 350/2-19-90
P-8G	Containment Vessel Vac. Br.	C	CV5076(OC) CV5086(OC)	8 8	4876/2-19-90 1047/2-19-90	42/3-31-90 0/6-1-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-8H	Containment Vessel Vac. Br.	C	CV5077(OC) CV5087(OC)	8 8	143/2-19-90 106/2-19-90	0/3-31-90 106/2-19-90
P-8I	Containment Vessel Vac. Br.	C	CV5078(OC) CV5088(OC)	8 8	0/2-21-90 0/2-21-90	0/2-21-90 0/2-21-90
P-8J	Containment Vessel Vac. Br.	C	CV5079(OC) CV5089(OC)	8 8	0/2-21-90 0/2-22-90	0/5-3-90 0/2-22-90
P-12	Comp. Cooling to CRDMs	C	CC1567A(IC) CC1567B(OC)	3 3	0/2-12-90 0/2-12-90	0/3-22-90 0/2-12-90
P-13	Contc. Ves. Nor. Sump Drain	C	DR2012A(IC) DR2012B(OC)	4 4	366/2-14-90 321/2-14-90	0/5-8-90 321/2-14-90
P-14	Letdown to Purif. Demins.	C	MU2A(IC) MU3(OC)	2.5 2.5	0/2-8-90 11660/2-8-90	0/2-8-90 0/2-23-90
P-16	Cont. Vess. Equip. Vent Hdr.	C	RC1719A(IC) RC1719B(OC)	3 3	0/2-15-90 0/2-15-90	0/2-15-90 0/2-15-90
P-17	Cont. Vess. Leak Test Line	C	CV343(OC) Blind Flg. (IC)	8 8	98/2-5-90 Combined	98/2-5-90 Combined
P-20	Normal RCS Makeup	C C	MU33(OC) MU6422(OC)	2.5 2.5	N/A 0/2-5-90	N/A 0/3-30-90
P-21	Demin. Water Supply	C	DW6831A(IC) DW6831B(OC)	4 4	76/2-24-90 0/2-24-90	76/2-24-90 0/2-24-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-23	Fuel Trans. Tube 1-2 Bellows	B	Bellows/Guard Pipe O-Rings(IC)	N/A N/A	0/5-10-90 263/2-1-90	0/5-10-90 0/5-8-90
P-24	Fuel Trans. Tube 1-1 Bellows	B	Bellows/Guard Pipe O-Rings(IC)	N/A N/A	0/5-10-90 109/2-1-90	0/5-10-90 0/5-8-90
P-25	Containment Spray	C	SA536(OC) SA532(OC)	2 2	0/2-6-90 Combined	0/2-6-90 Combined
			CS1531(OC)	8	0/2-6-90	0/2-6-90
			CS33(OC) CS17(OC)	8 8	0/2-6-90 Combined	N/A
			CS33(OC) CS17(OC)	8 8	207/2-6-90 0/2-6-90	207/2-6-90 0/2-6-90
P-26	Containment Spray	C	SA533(OC) SA535(OC)	2 2	368/2-7-90 Combined	368/2-7-90 Combined
			CS1530(OC)	8	233/2-7-90	233/2-7-90
			CS36(OC) CS18(OC)	8 8	0/2-7-90 Combined	0/2-7-90 Combined
			CS36(OC) CS18(OC)	8 8	0/2-7-90 25785/2-8-90	0/2-7-90 4897/4-18-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-29	Decay Heat Suction	C	DH23(IC)	8	0/3-8-90	0/3-8-90
P-30	Cont. Emer. Sump Guard Pipe	B	Guard Pipe	N/A	0/1-30-90	0/1-30-90
P-31	Cont. Emer. Sump Guard Pipe	B	Guard Pipe	N/A	0/1-31-90	0/1-31-90
P-32	RCS Drain to RCDT	C	RC1773A(IC) RC1773B(OC)	3 3	0/3-8-90 1590/3-8-90	0/3-8-90 1590/3-8-90
P-33	Cont. Vess. Purge Inlet	C C	CV5006(IC) CV5005(OC)	48 48	477/1-27-90 Combined	623/6-7-90 Combined
P-34	Cont. Vess. Purge Outlet	C	CV5007(IC) CV5008(OC)	48 48	636/1-27-90 Combined	530/6-7-90 Combined
P-37	Main Feedwater Inbd. Bellows Main Feedwater Otbd. Bellows	B B	Bellows Bellows	N/A N/A	0/3-10-90 0/3-10-90	0/3-10-90 0/3-10-90
P-38	Main Feedwater Inbd. Bellows Main Feedwater Otbd. Bellows	B B	Bellows Bellows	N/A N/A	0/3-10-90 0/3-10-90	0/3-10-90 0/3-10-90
P-39	Main Steam Inbd. Bellows Main Steam Otbd. Bellows	B B	Bellows Bellows	N/A N/A	0/3-10-90 0/3-10-90	0/3-10-90 0/3-10-90
P-40	Main Steam Inbd. Bellows Main Steam Otbd. Bellows	B B	Bellows Bellows	N/A N/A	0/3-10-90 0/3-10-90	0/3-10-90 0/3-10-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-41	Press. Quench Tk. Circ. Inlet	C	RC113(IC) RC232(OC)	2 2	0/2-15-90 366/2-15-90	0/2-15-90 366/2-15-90
P-42A	Service Air Supply	C	SA502(IC) SA2010(OC)	1.5 1.5	4876/2-2-90 5088/2-2-90	0/5-18-90 0/5-18-90
P-42B	Cont. Vess. Air Sample Ret.	C	CV124(IC) CV510E(OC)	1 1.5	117/2-9-90 0/2-8-90	117/2-9-90 0/4-11-90
P-43A	Instrument Air Supply	C	SA501(IC) IA2011(OC)	1 1	346/3-5-90 85/3-5-90	346/3-5-90 85/3-5-90
P-43B	Cont. Vess. Air Sample Ret.	C	CV125(IC) CV5011E(OC)	1 1.5	0/2-9-90 0/2-9-90	0/2-9-90 0/2-9-90
P-44A	Core Flood Tank Fill & N2 Supply	C	CF15(IC) CF1541(OC)	1 1	636/2-13-90 303/2-13-90	636/2-13-90 1007/4-5-90
P-44B	Containment N2 Supply	C	NN58(IC) NN236(OC)	1 1	477/2-12-90 395/2-12-90	477/2-12-90 395/2-12-90
P-47A	Core Flood Tank Vent	C	CF2A(IC) CF2B(IC) CF1545(OC)	(Note 1) (Note 1) 1	0/2-10-90 0/2-10-90 0/2-10-90	0/5-18-90 0/5-18-90 212/5-27-90
P-47B	Core Flood Tank Vent	C	CF5A(IC) CF5B(IC) CF1542(OC)	(Note 1) (Note 1) 1	0/2-12-90 0/2-12-90 64/2-12-90	0/5-8-90 0/5-8-90 0/5-27-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-48	Press. Quench Tk. Circ. Outlet	C	RC229B(IC) RC229A(OC)	3 3	42/2-2-90 42/2-2-90	42/2-2-90 42/2-2-90
P-49	Refueling Canal Fill	C	DH88(IC) DH87(OC)	8 8	4346/3-17-90 1686/3-17-90	0/4-4-90 0/5-30-90
P-50	RCS Makekup	C	MU6421(OC)	2.5	0/2-5-90	0/2-5-90
P-51	H2 Purge Exhaust	C	CV5038(OC) CV5037(OC)	4 4	0/2-3-90 0/2-3-90	0/2-8-90 0/2-8-90
P-52	RCP Seal Water Supply	C	MU242(IC) MU66A(OC)	1.5 1.5	305/3-5-90 0/3-5-90	305/3-5-90 0/3-5-90
P-53	RCP Seal Water Supply	C	MU243(IC) MU66B(OC)	1.5 1.5	0/3-5-90 141/3-5-90	0/3-5-90 141/3-5-90
P-54	RCP Seal Water Supply	C	MU244(IC) MU66C(OC)	1.5 1.5	570/3-5-90 0/3-5-90	570/3-5-90 0/3-5-90
P-55	RCP Seal Water Supply	C	MU245(IC) MU66D(OC)	1.5 1.5	199/3-5-90 0/3-5-90	199/3-5-90 0/3-5-90
P-56	RCP Seal Water Return	C	MU59A-D(IC) MU38(OC)	1 1	0/3-13-90 Combined	0/4-18-90 Combined
P-59	Sec. Side Chem. Cleaning Flanges	B	Flanges	8	64/1-31-90	53/5-5-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-67	H2 Dilution Supply	C	CV210(IC) CV5090(OC)	4 4	795/2-6-90 795/2-6-90	0/4-11-90 0/4-9-90
P-68A	Press. Quench Tk. Sample	C	SS235B(IC) SS235A(OC)	1 1	42/2-3-90 78/2-3-90	42/2-3-90 78/2-3-90
P-68B	Containment Air Sample	C	CV5011B(IC) CV5010B(OC)	1 1	0/2-1-90 Combined	0/2-1-90 Combined
P-69	H2 Dilution Supply	C	CV209(IC) CV5065(OC)	4 4	42/2-1-90 0/2-6-90	170/6-3-90 0/2-6-90
P-71B	Containment Air Sample	C	CV5010A(IC) CV5011A(OC)	1 1	0/2-10-90 Combined	0/3-19-90 Combined
P-71C	Core Flood Tk. Fill & N2 Supply	C	CF16(IC) CF1544(OC)	1 1	427/2-13-90 82/2-13-90	427/2-13-90 82/2-13-90
P-73B	Containment Air Sample	C	CV5010C(IC) CV5011C(OC)	1 1	0/2-13-90 Combined	0/4-12-90 Combined
P-74B	Containment Air Sample	C	CV5010D(IC) CV5011D(OC)	1 1	0/2-1-90 Combined	0/2-1-90 0/4-9-90
P-74C	Press. Aux Spray	C	DH2735(IC) DH2736(OC)	1.5 1.5	0/2-10-90 0/2-10-90	0/2-10-90 0/3-24-90
P-80	Emergency Air Lock	B	Air Lock	N/A	1814/2-16-90	0/5-29-90

1990 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-81	Personnel Air Lock	B	Air Lock	N/A	1325/1-27-90	1193/5-29-90
P-82	Equipment Hatch	B	O-Rings	N/A	0/1-28-90	0/6-3-90
P-101	Electrical Penetrations	B	O-Rings	N/A	8247/3-9-90	0/3-9-90
P-102	Electrical Penetrations	B	O-Rings	N/A	0/3-9-90	0/3-9-90
				TOTAL	* >234,845	23,309

- NOTES
1. Individual valves are 1 inch. Tested in parallel for nominal size of 2 inches.
 2. Each penetration leakage was increased as follows:
 - a. 2% for 38 (+1,-0) psig.
 - b. 2% for rotameter accuracy.
 - c. 2% for 60-70 degrees F.

* PCAQR 90-0112 issued. Valve limit stops caused excessive leakage through CC1407B. MWO 7-90-0112-01 reset limits and valve tested satisfactorily (see Penetration No. 4).

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-1	Pressurizer Sample	C	RC240A(IC) RC240B(OC)	1 1	0/9-12-91 0/9-12-91	0/9-12-91 0/9-12-91
P-3	Component Cooling Supply	C	CC1411A(IC) CC1411B(OC)	12 12	52/9-11-91 Combined	308/10-13-91 Combined
P-4	Component Cooling Return	C	CC1407A(IC) CC1407B(OC)	12 12	3487/9-11-91 Combined	3487/9-11-91 Combined
P-8A	Containment Vessel Vac. Br.	C	CV5070(OC) CV5080(OC)	8 8	2072/9-13-91 Combined	515/10-10-91 1242/10-14-91
P-8B	Containment Vessel Vac. Br.	C	CV5071(OC) CV5081(OC)	8 8	790/9-13-91 592/9-13-91	790/9-13-91 0/9-18-91
P-8C	Containment Vessel Vac. Br.	C	CV5072(OC) CV5082(OC)	8 8	5/9-13-91 5/9-13-91	5/9-13-91 5/9-13-91
P-8D	Containment Vessel Vac. Br.	C	CV5073(OC) CV5083(OC)	8 8	0/9-13-91 49/9-13-91	0/9-13-91 49/9-13-91
P-8E	Containment Vessel Vac. Br.	C	CV5074(OC) CV5084(OC)	8 8	0/9-13-91 Combined	237/10-11-91 15/10-14-91
P-8F	Containment Vessel Vac. Br.	C	CV5075(OC) CV5985(OC)	8 8	393/9-10-91 319/9-10-91	393/9-10-91 319/9-10-91
P-8G	Containment Vessel Vac. Br.	C	CV5076(OC) CV5086(OC)	8 8	440/9-10-91 491/9-10-91	440/9-10-91 13975/10-15-91

1991 Surveillance Test

<u>Per No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-8H	Containment Vessel Vac. Br.	C	CV5077(OC) CV5087(OC)	8 8	0/9-10-91 0/9-10-91	0/9-10-91 0/9-10-91
P-8I	Containment Vessel Vac. Br.	C	CV5078(OC) CV5088(OC)	8 8	0/9-10-91 16/9-10-91	0/9-10-91 16/9-10-91
P-8J	Containment Vessel Vac. Br.	C	CV5079(OC) CV5089(OC)	8 8	55/9-10-91 0/9-10-91	55/9-10-91 16/10-15-91
P-12	Comp. Cooling to CRDMS	C	CC1567A(IC) CC1567B(OC)	3 3	0/9-6-91 0/9-6-91	0/9-6-91 0/9-6-91
P-13	Cont. Ves. Nor. Sump Drain	C	DR2012A(IC) DR2012B(OC)	4 4	508/10-10-91 610/10-10-91	508/10-10-91 610/10-10-91
P-14	Letdown to Purif. Demins.	C	MU2A(IC) MU3(OC)	2.5 2.5	0/9-9-91 0/9-10-91	0/9-9-91 0/9-10-91
P-16	Cont. Vess. Equip. Vent Hdr.	C	RC1719A(IC) RC1719B(OC)	3 3	65/9-13-91 73/9-13-91	65/9-13-91 73/9-13-91
P-17	Cont. Vess. Leak Test Line	C	CV343(OC) Blind Flg.(IC)	8 8	40/9-3-91 Combined	42/10-21-91 Combined
P-20	Normal RCS Makeup	C	MU6422(OC)	2.5	32/9-19-91	22/10-17-91
P-21	Demin. Water Supply	C	DW6831A(IC) DW6831B(OC)	4 4	56/9-16-91 60/9-16-91	56/9-16-91 60/9-16-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-23	Fuel Trans. Tube 1-2 Bellows	B	Bellows/Guard Pipe O-Rings(IC)	N/A N/A	11/10-9-91 0/9-11-91	11/10-9-91 0/10-14-91
P-24	Fuel Trans. Tube 1-1 Bellows	B	Bellows/Guard Pipe O-Rings(IC)	N/A N/A	0/10-9-91 0/9-11-91	0/10-9-91 0/10-14-91
P-25	Containment Spray	C	SA536(OC) SA532(OC) CS1531(OC) CS33(OC) CS17(OC) CS33(OC) CS17(OC)	2 2 8 8 8 8 8	0/9-5-91 Combined 0/9-5-91 0/9-5-91 Combined 129/9-5-91 0/9-5-91	0/9-5-91 Combined 0/9-5-91 N/A 129/9-5-91 0/9-5-91
P-26	Containment Spray	C	SA533(OC) SA535(OC) CS1530(OC) CS36(OC) CS18(OC) CS36(OC) CS18(OC)	2 2 8 8 8 8 8	453/9-6-91 Combined 206/9-6-91 84/9-6-91 Combined 78/9-6-91 25400/9-6-91	453/9-6-91 Combined 206/9-6-91 N/A 79/10-26-91 4820/10-26-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-30	Cont. Emer. Sump Guard Pipe	B	Guard Pipe	N/A	0/9-5-91	0/9-5-91
P-31	Cont. Emer. Sump Guard Pipe	B	Guard Pipe	N/A	0/9-5-91	0/9-5-91
P-32	RCS Drain to RCDT	C	RC1773A(IC) RC1773B(OC)	3 3	0/9-12-91 79351/9-12-91	0/9-12-91 0/10-24-91
P-33	Cont. Vess. Purge Inlet	C C	CV5006(IC) CV5005(OC)	48 48	295/9-1-91 Combined	5717/10-24-91 Combined
P-34	Cont. Vess. Purge Outlet	C	CV5007(IC) CV5008(OC)	48 48	52/9-1-91 Combined	1430/10-25-91 Combined
P-37	Main Feedwater Inbd. Bellows	B	Bellows	N/A	0/9-11-91	0/9-11-91
	Main Feedwater Otbd. Bellows	B	Bellows	N/A	0/9-11-91	0/9-11-91
P-38	Main Feedwater Inbd. Bellows	B	Bellows	N/A	0/9-8-91	0/9-8-91
	Main Feedwater Otbd. Bellows	B	Bellows	N/A	0/9-8-91	0/9-8-91
P-39	Main Steam Inbd. Bellows	B	Bellows	N/A	0/9-11-91	0/9-11-91
	Main Steam Otbd. Bellows	B	Bellows	N/A	0/9-11-91	0/9-11-91
P-40	Main Steam Inbd. Bellows	B	Bellows	N/A	0/9-8-91	0/9-8-91
	Main Steam Otbd. Bellows	B	Bellows	N/A	0/9-11-91	0/9-11-91
P-41	Press. Quench Tk. Circ. Inlet	C	RC113(IC) RC232(OC)	2 2	35/9-14-91 4934/9-14-91	35/9-14-91 158/10-15-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-42A	Service Air Supply	C	SA502(IC) SA2010(OC)	1.5 1.5	216/9-7-91 1364/9-8-91	216/9-7-91 911/10-23-91
P-42B	Cont. Vess. Air Sample Ret.	C	CV124(IC) CV5010E(OC)	1 1.5	211/9-8-91 15/9-8-91	211/9-8-91 15/9-8-91
P-43A	Instrument Air Supply	C	IA501(IC) IA2011(OC)	1 1	364/10-9-91 52/10-9-91	364/10-9-91 52/10-9-91
P-43B	Cont. Vess. Air Sample Ret.	C	CV125(IC) CV5011E(OC)	1 1.5	0/9-9-91 0/9-9-91	0/9-9-91 0/9-9-91
P-44A	Core Flood Tank Fill & N2 Supply	C	CF15(IC) CF1541(OC)	1 1	133/9-14-91 600/9-14-91	133/9-14-91 600/9-14-91
P-44B	Containment N2 Supply	C	NN58(IC) NN236(OC)	1 1	184/9-7-91 243/9-7-91	184/9-7-91 243/9-7-91
P-47A	Core Flood Tank Vent	C	CF2A(IC) CF2B(IC) CF1545(OC)	(Note 1) (Note 1) 1	106/9-13-91 0/9-13-91 0/9-13-91	106/9-13-91 0/9-13-91 0/9-13-91
P-47B	Core Flood Tank Vent	C	CF5A(IC) CF5B(IC) CF1542(OC)	(Note 1) (Note 1) 1	0/9-13-91 0/9-13-91 35/9-13-91	0/9-13-91 0/9-13-91 35/9-13-91
P-48	Press. Quench Tk. Circ. Outlet	C	RC229B(IC) RC229A(OC)	2 3	55/9-14-91 5920/9-14-91	55/9-14-91 1143/10-14-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-49	Refueling Canal Fill	C	DH88(IC) DH87(OC)	8 8	0/9-8-91 0/9-9-91	0/9-8-91 0/9-9-91
P-50	RCS Makeup	C	MU6421(OC)	2.5	0/9-7-91	0/9-7-91
P-51	H2 Purge Exhaust	C	CV5038(OC) CV5037(OC)	4 4	21/9-10-91 15/9-10-91	21/9-10-91 123/10-11-91
P-52	RCP Seal Water Supply	C	MU242(IC) MU66A(OC)	1.5 1.5	218/9-8-91 0/9-8-91	218/9-8-91 0/9-8-91
P-53	RCP Seal Water Supply	C	MU243(IC) MU66B(OC)	1.5 1.5	0/9-7-91 0/9-8-91	0/9-7-91 0/9-8-91
P-54	RCP Seal Water Supply	C	MU244(IC) MU66C(OC)	1.5 1.5	456/9-9-91 0/9-9-91	496/9-9-91 0/9-9-91
P-55	RCP Seal Water Supply	C	MU245(IC) MU66D(OC)	1.5 1.5	0/9-9-91 0/9-9-91	0/9-9-91 0/9-9-91
P-56	RCP Seal Water Return	C	MU59A-D(IC) MU38(OC)	1 1	0/9-11-91 Combined	0/9-11-91 Combined
P-59	Sec. Side Chem. Cleaning Flanges	B	Flanges	8	24/9-3-91 Combined	47/10-23-91 Combined
P-67	H2 Dilution Supply	C	CV210(IC) CV5090(OC)	4 4	10/9-7-91 0/9-9-91	10/9-7-91 288/10-10-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-68A	Press. Quench Tk. Sample	C	SS235B(IC) SS235A(OC)	1 1	21/9-12-91 119/9-12-91	21/9-12-91 119/9-12-91
P-68B	Containment Air Sample	C	CV5011B(IC) CV5010B(OC)	1 1	0/9-7-91 Combined	0/9-7-91 Combined
P-69	H2 Dilution Supply	C	CV209(IC) CV5065(OC)	4 4	177/9-10-91 0/9-11-91	177/9-10-91 0/9-11-91
P-71B	Containment Air Sample	C	CV5010A(IC) CV5011A(OC)	1 1	0/9-8-91 Combined	14/10-16-91 Combined
P-71C	Core Flood Tk. Fill & N2 Supply	C	CF16(IC) CF1544(OC)	1 1	360/9-12-91 176/9-12-91	360/9-12-91 176/9-12-91
P-73P	Containment Air Sample	C	CV5010C(IC) CV5011C(OC)	1 1	0/9-8-91 Combined	0/10-10-91 Combined
P-74B	Containment Air Sample	C	CV5010D(IC) CV5011D(OC)	1 1	0/9-7-91 Combined	0/9-7-91 Combined
P-74C	Press. Aux Spray	C	DH2735(IC) DH2736(OC)	1.5 1.5	0/9-7-91 0/9-7-91	0/9-7-91 0/9-7-91
P-80	Emergency Air Lock	B	Air Lock	N/A	402/5-1-91	182/10-10-91
P-81	Personnel Air Lock	B	Air Lock	N/A	1315/4-30-91	113/10-14-91

1991 Surveillance Test

<u>Pen No.</u>	<u>System Name</u>	<u>Test Type</u>	<u>Equipment/ Valves</u>	<u>Valve Size (Inches)</u>	<u>As-Found Leakage (SCCM)/Date</u>	<u>As-Left Leakage (SCCM)/Date</u>
P-82	Equipment Hatch	B	O-Rings	N/A	0/9-4-91	0/10-23-91
P-101	Electrical Penetrations	B	O-Rings	N/A	0/9-12-91	0/9-12-91
P-102	Electrical Penetrations	B	O-Rings	N/A	0/9-8-91	0/9-8-91
TOTAL					134,090	42,974

- NOTES
1. Individual valves are 1 inch. Tested in parallel for nominal size of 2 inches.
 2. Each penetration leakage was increased as follows:
 - a. 2% for rotameter accuracy.
 - b. 1% for 38 (+1,-0) psig.

Summary and Conclusions
- 1990 Surveillance Test -

SUMMARY:

All tests were performed utilizing air or nitrogen as the test media at a minimum pressure of 38.0 psig (P_a) for a minimum duration of 15 minutes after stabilization.

DATA SUMMARY:

• Total allowable ($0.60 L_a$)	599,400 SCCM
• Total "as-found"	*234,845 SCCM
• Total "as-left"	23,309 SCCM

ACCEPTANCE CRITERIA:

The combined leakage rate of all Type B and C tests shall be less than $0.60 L_a$ or <599,400 SCCM.

CONCLUSIONS:

The combined as-found leakage rate of all Type B and C tests was * >234,845 SCCM. No Type A test or ILRT was performed during this surveillance interval.

*See 1990 surveillance test data for Penetration No. 4

SUMMARY:

All tests were performed utilizing air or nitrogen as the test media at a minimum pressure of 38.0 psig (P_a) for a minimum duration of 15 minutes after stabilization.

DATA SUMMARY:

- Total allowable (0.60 L_a) 599,400 SCCM
- Total "as-found" 134,090 SCCM
- Total "as-left" 42,974 SCCM

ACCEPTANCE CRITERIA:

The combined leakage rate of all Type B and C tests shall be less than 0.60 L_a or <599,400 SCCM.

CONCLUSIONS:

The combined as-found leakage rate of all Type B and C tests was 134,090 SCCM which falls within the acceptance limit. The data substantiates that an acceptable test was performed in accordance with the requirements of 10CFR50, Appendix J.

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NUCLEAR POWER STATION**

