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DATA REPORT FOR ROSA-IV LSTF 10%
HOT LEG BREAK EXPERIMENT RUN
SB-HL-04

March 1991

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Run SB-HL-04

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Experimental data for the 10% hot leg break test, Run SB-HL-04, conducted on March 29, 1988 at the ROSA-IV Large Scale Test Facility (LSTF), are presented. This test was conducted as part of test series which studied the effect of break orientation on 10% hot leg break transient, and represented a vertical upward break. Other two tests in this test series represented horizontal break and vertical downward break, respectively. The results of these tests were characterized by asymmetric loop responses, flashing in the cold legs as well as upper downcomer, and condensation depressurization in the cold legs following injection of emergency core coolant (ECC) from accumulators.

Keywords: PWR, LOCA, Small Break, ECCS, Integral Test, ROSA-IV Program, LSTF, Hot Leg, Break Orientation, Condensation Depressurization

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ROSA-IV/LSTF 10%ホットレグ破断
LOCA模擬実験 Run SB-HL-04 データレポート

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本報は、ROSA-IV計画大型非定常試験装置（LSTF）による10%ホットレグ破断（上向き破断）実験 Run SB-HL-04 の実験データをまとめたものである。本実験は、破断口向きの効果に関する実験シリーズ（合計3ラン）の一つとして実施され、他の2回の実験ではそれぞれ同一破断面積の水平方向破断及び下向き破断を模擬した。また本実験では、高圧注入系と補助給水系の不作動を想定した。本実験の特徴的な実験結果としては、ループ間の非対称挙動、コールドレグ・上部ダウンカマ内の減圧沸騰、蓄圧注入系作動後のコールドレグ内凝縮減圧などがあげられる。

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Contents

1. Introduction	1
2. Test Facility and Instrumentation	4
2.1 Test Facility	4
2.2 Test Instrumentation	4
2.3 Test Facility and Instrumentation Changes after Previous Test ...	6
3. Test Initial Conditions	7
4. Test Boundary Conditions and Test Procedures	8
4.1 Break Conditions	8
4.2 Operational Setpoints and Failure Assumptions	8
4.3 Post-Scram Core Power Decay	8
4.4 Pressurizer Heaters and Spray Control	9
4.5 Pump Coastdown Control	9
4.6 ECCS Operational Conditions	9
4.7 Operator Intervention	10
4.8 Test Preparation Procedure	10
5. Test Results	12
5.1 Primary/Secondary Pressure Responses and Trip-Initiated Events	12
5.2 Loop Flowrates	13
5.3 Hot Leg and SG Primary Side Voiding	13
5.4 Break Flowrate	14
5.5 Cold Leg and Downcomer Voiding	14
5.6 Condensation Depressurization Following ACC Injection and Loop Seal Clearing	15
5.7 Core Thermal-Hydraulic Responses	16
5.8 Long-Term System Cooldown	17
6. Concluding Remarks	18
Acknowledgment	18
References	19
Appendix A Measurement Locations	91
Appendix B Data Reduction and Qualification Procedure	120
Appendix C Data Presentation	122

目 次

1. まえがき	1
2. 実験装置及び計測系	4
2.1 実験装置	4
2.2 計測系	4
2.3 前回の実験以後行われた実験装置ないし計測系の変更	6
3. 実験初期条件	7
4. 実験境界条件及び実験方法	8
4.1 破断条件	8
4.2 機器作動に関する設定値ならびに想定した機器故障	8
4.3 スクラム後の炉心出力減衰	8
4.4 加圧器ヒータ及びスプレイの制御	9
4.5 ポンプコーストダウン制御	9
4.6 E C C S 作動条件	9
4.7 運転員操作	10
4.8 実験準備手順	10
5. 実験結果	12
5.1 1次系・2次系圧力挙動及び自動トリップによる機器の作動	12
5.2 1次系ループ流量	13
5.3 ホットレグ及びSG 1次側の水の減少	13
5.4 破断流量	14
5.5 コールドレグ及びダウンカマ内の水の減少	14
5.6 蓄圧注入系の作動に伴う凝縮減圧及びループシールクリアリング	15
5.7 炉心の熱水力挙動	16
5.8 長期的システム冷却過程	17
6. むすび	18
謝 辞	18
参考文献	19
付録A 計測点位置	91
付録B 実験データ処理・評価手順	120
付録C 詳細データ（マイクロフィッシュ）	122

Abbreviations

ACC-Cold	: Cold water accumulator
ACC-Hot	: Hot water accumulator
ADQ	: Automatic Data Qualification
CA	: Chromel Alumel thermocouple
CB	: Core barrel
CL-A, CL-B	: Cold leg of primary loop-A, Cold leg of primary loop-B
COL-A,COL-B	: Cross-over leg of primary loop-A, Cross-over leg of primary loop-B
CP	: Conduction probe
CPT	: Conduction probe with thermocouple
DC	: Downcomer
DE	: Density measurement
DP	: Differential pressure measurement
DT	: Temperature difference measurement
ECC	: Emergency core cooling
ECCS	: Emergency core cooling system
FE	: Flow rate measurement
HLA, HLB	: Hot leg of primary loop A, Hot leg of primary loop B
HPIS	: High pressure injection system
JC	: Jet condenser
LCP	: Lower core plate
LOCA	: Loss-of-coolant accident
LPIS	: Low pressure injection system
LSA, LSB	: Loop Seal A, Loop Seal B
LSTF	: Large Scale Test Facility
LE	: Liquid level measurement
MF	: Momentum flux measurement
MI	: Miscellaneous measurement
PA	: Auxiliary feedwater pump
PCA, PCB	: Reactor coolant pump in primary loop A, Reactor coolant pump in primary loop B
PE	: Pressure measurement
PF	: Main feedwater pump
PH	: High pressure injection pump
PJ	: Charging pump
PL	: Low pressure injection pump

PORV : Power operated relief valve
PPR : Pressurizer spray pump
PR : Pressurizer
PV : Pressure vessel
PWR : Pressurized water reactor
RHR : Residual heat removal system
RO : Orifice
ROSA-IV : Rig of Safety Assessment Number 4
RV : Relief valve
RWST : Simulated refueling water storage tank
SBLOCA : Small break loss-of-coolant accident
SGA, SGB : Steam generator A, Steam generator B
ST : Break flow storage tank
SV : Safety valve
T/C : Thermocouple
TE : Fluid temperature measurement
UCP : Upper core plate
UH : Upper head
UP : Upper plenum

List Of Tables

- Table 2.1 Major Design Characteristics of LSTF
 Table 2.2 Measurement List for Run SB-HL-04
 Table 3.1 Test Initial Conditions for Run SB-HL-04
 Table 4.1 Specified Operational Setpoints for Run SB-HL-04
 Table 4.2 Tabulation of Core Power Decay Curve
 Table 4.3 ECCS Operational Conditions
 Table 5.1 Chronology of Events
 Table 5.2 Listing of Event Record File (ERF)

List Of Figures

- Fig. 2.1 Schematic of ROSA-IV Large Scale Test Facility (LSTF)
 Fig. 4.1 Break Location
 Fig. 4.2 Break Unit Geometry
 Fig. 4.3 Break Orifice Geometry
 Fig. 4.4 LSTF Standard Operational Setpoints
 Fig. 4.5 Total Core Power
 Fig. 4.6 Pressurizer Heater Powers and Water Level
 Fig. 4.7 Primary Coolant Pump Rotational Speeds
 Fig. 4.8 ECCS Line Connections
 Fig. 4.9 LPI Flow Rate vs. Pressure
 Fig. 5.1 Comparison between Primary and Secondary Pressures (1)
 Fig. 5.2 Comparison between Primary and Secondary Pressures (2)
 Fig. 5.3 SG-A Feedwater and Steam Flow Rates
 Fig. 5.4 SG-B Feedwater and Steam Flow Rates
 Fig. 5.5 SG-A Secondary Side Collapsed Water Level
 Fig. 5.6 SG-B Secondary Side Collapsed Water Level
 Fig. 5.7 Loop-A Pump Suction Leg Flow Rate
 Fig. 5.8 Loop-B Pump Suction Leg Flow Rate
 Fig. 5.9 Loop-A Hot Leg Fluid Densities
 Fig. 5.10 Loop-B Hot Leg Fluid Densities
 Fig. 5.11 Loop-A Hot Leg Vessel-Side Conduction Probe Signals
 Fig. 5.12 Loop-B Hot Leg SG-Side Conduction Probe Signals
 Fig. 5.13 Loop-A Hot Leg Fluid Temperatures
 Fig. 5.14 Loop-B Hot Leg Fluid Temperatures

- Fig. 5.15 SG-A Upflow-Side Differential Pressures
Fig. 5.16 SG-A Downflow-Side Differential Pressures
Fig. 5.17 SG-B Upflow-Side Differential Pressures
Fig. 5.18 SG-B Downflow-Side Differential Pressures
Fig. 5.19 Break Flow Rate Calculated from Catch Tank Level Rise
Fig. 5.20 Break-Flow Catch Tank Level
Fig. 5.21 Loop-A Cold Leg Fluid Densities
Fig. 5.22 Loop-B Cold Leg Fluid Densities
Fig. 5.23 Loop-A Cold Leg Fluid Temperatures
Fig. 5.24 Loop-B Cold Leg Fluid Temperatures
Fig. 5.25 Downcomer Fluid Temperatures
Fig. 5.26 Downcomer and Lower Plenum Differential Pressures
Fig. 5.27 Loop-A Loop Seal Differential Pressures
Fig. 5.28 Loop-B Loop Seal Differential Pressures
Fig. 5.29 Loop-A Loop Seal Fluid Densities
Fig. 5.30 Loop-B Loop Seal Fluid Densities
Fig. 5.31 Loop-A Loop Seal Fluid Temperatures
Fig. 5.32 Loop-B Loop Seal Fluid Temperatures
Fig. 5.33 Upper Plenum-to-Downcomer Differential Pressures
Fig. 5.34 Core and Upper Plenum Differential Pressures
Fig. 5.35 Primary and ACC Tank Pressures
Fig. 5.36 ACC Tank Levels
Fig. 5.37 ACC Injection Flow Rates
Fig. 5.38 Core Collapsed Liquid Level
Fig. 5.39 Primary System Collapsed Liquid Level Distribution
Fig. 5.40 Rod Surface Temperatures [Bundle 18 Rod(3,4)]
Fig. 5.41 Rod Surface Temperature Distribution
Fig. 5.42 LPI Flow Rates
Fig. A.1 Primary Loop A Instruments (I)
Fig. A.2 Primary Loop A Instruments (II)
Fig. A.3 Primary Loop B Instruments (I)
Fig. A.4 Primary Loop B Instruments (II)
Fig. A.5 Instruments for Pressurizer and Associated Lines
Fig. A.6 Suppression Tank and Break Unit Type I Instruments
Fig. A.7 Main Feedwater Line Aux. Feedwater Line and Jet Condenser Instruments
Fig. A.8 Main Steam, Relief Valve and Safety Valve Instruments

- Fig. A.9 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (I)
- Fig. A.10 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (II)
- Fig. A.11 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (III)
- Fig. A.12 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (I)
- Fig. A.13 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (II)
- Fig. A.14 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (III)
- Fig. A.15 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (IV)
- Fig. A.16 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (V)
- Fig. A.17 Locations of Core Instruments
- Fig. A.18 Locations of Selected Instruments for Primary Loops A and B
- Fig. A.19 Instrument Locations for Inlet Pipe of Steam Generator B
- Fig. A.20 Locations of Selected Instruments for Crossover Legs A and B (I)
- Fig. A.21 Locations of Selected Instruments for Crossover Legs A and B (II)
- Fig. A.22 Locations of temperature Measurements for Steam Generator A and B (I)
- Fig. A.23 Locations of temperature Measurements for Steam Generator A and B (II)
- Fig. A.24 Locations of Pressure and Differential Pressure Measurements for Steam Generator A and B
- Fig. A.25 Locations of Steam Generators A and B Secondary Liquid Level and Downcomer Flow Measurements
- Fig. A.26 Locations of Steam Generators A and B Conductivity Probe Measurements
- Fig. A.27 Locations of Selected Instruments for Pressurizer (I)
- Fig. A.28 Locations of Selected Instruments for Pressurizer (II)
- Fig. A.29 Hot Leg Leak Lines for Primary Loops A and B

1. INTRODUCTION

The Rig-of-Safety-Assessment No. 4 (ROSA-IV) Program is being conducted by the Japan Atomic Energy Research Institute (JAERI) since 1980 for experimental and analytical investigation of thermal-hydraulic responses of a pressurized water reactor (PWR) during small-break loss-of-coolant accidents (SBLOCAs) and operational/abnormal transients. The three major tasks constituting this program are:

- (1) conducting integral experiments on PWR SBLOCAs using the Large Scale Test Facility (LSTF) [1, 2] which is a 1/48 volumetrically scaled, full-height, full-pressure simulator of a Westinghouse-type 4-loop (3423 Mwt) PWR,
- (2) conducting separate effects experiments on thermal-hydraulic phenomenon peculiar to these accidental or abnormal situations using the Two-Phase Flow Test Facility (TPTF), and
- (3) development and verification of computer codes for analysis of SBLOCAs and transients using experimental data taken at the LSTF and TPTF.

This report presents experimental data for a 10% hot leg break test, Run SB-HL-04, conducted on March 29, 1988 on the LSTF. This test represented a vertically upward break (top break) in the hot leg, with a break area of 10% of the 1/48 scaled PWR COLD LEG cross-sectional area, followed by loss of off-site power occurring concurrently with scram tripped by a low pressurizer pressure signal. High pressure injection system (HPIS) and the auxiliary feedwater system (AFW) were both assumed unavailable on demand.

The test was generally successful; however, one (out of the two) data acquisition system stopped inadvertently for between 382 and 545 s after break. Data for this 163-s time period were therefore lost for the channels connected to this data acquisition system.

This test belongs, in the LSTF test matrix, to a set of three 10% hot leg break tests conducted for different break orientations. Other two tests are Runs SB-HL-02 (horizontal break) and SB-HL-07 (vertically downward break). There were certain differences between the test conditions for

the three tests, in addition to the difference in break orientation, as follows:

	<u>SB-HL-02</u>	<u>SB-HL-04</u>	<u>SB-HL-07</u>
<u>Date of Performance</u>	June 30, '87	Mar. 29, '88	May 22, '89
<u>Core Assembly</u>	First	First	Second
<u>Break Orientation</u>	horizontal (side break)	vertically upward (top break)	vertically downward (bottom break)
<u>Break Orifice Location</u>	in a branch piping	flush with leg inner surface	in a branch piping
<u>Core Power Decay Curve</u>	JAERI-old [3]	JAERI-new [3]	JAERI-new [3]

In addition to the three test above, the break orientation effects on hot leg break transient have been studied in another series of LSTF tests which were conducted for a break area of 0.5% (Runs SB-HL-03, -05 and -06). The influence of break size on the significance of break orientation effects can be therefore studied by comparing the two series of tests.

The test results for Run SB-HL-04 were characterized by:

- (a) Asymmetric loop responses, including earlier voiding of hot leg and steam generator (SG) primary side in the broken loop than in the intact loop,
- (b) Flashing in the cold legs and upper downcomer associated with primary depressurization, forming a large steam bubble in these regions, and
- (c) Condensation depressurization in the cold legs and downcomer following injection of emergency core coolant (ECC) from accumulators (ACCs) which resulted in temporary core level depression and core uncovering.

These observations were similar to those for other 10% hot leg break

tests.

After the test was terminated at 1355 s after break by turning off the core power, an additional follow-on test was conducted by using the residual coolant inventory. This test, designated Run SB-HL-04-FO, studied the loop seal refilling phenomena [4] during cold leg break LOCA for a scaled cold leg break area of about 65%. This part of test, however, is not covered by the present data report.

This report presents all the experimental data taken for Run SB-HL-04, describes the test initial and boundary conditions, test configuration and test procedures, as well as summarizes major observations from the test.

Data plots for all the instrumentation channels for Run SB-HL-04 are presented in Appendix C of this report in the form of microfiche. As has been mentioned, data were lost between 382 and 545 s after break for about a half of the entire data channels.

2. TEST FACILITY AND INSTRUMENTATION

2.1 Test Facility

The LSTF is a 1/48 volumetrically-scaled, full-height, full-pressure simulator of a Westinghouse-type 4-loop (3423 MWe) PWR located at the Tokai Research Establishment of JAERI. Figure 2.1 shows the general view of the LSTF. Table 2.1 summarizes the facility design characteristics. More detailed description of the LSTF geometry, as of the date of performance of Run SB-HL-04, is available in Refs. [1, 2].

In the LSTF, the four primary loops of the reference PWR are represented by two symmetric loops, each one including an active SG and an active reactor coolant pump. The component elevations are preserved full scale to simulate natural circulation phenomena peculiar to SBLOCAs and transients. The loop horizontal legs are sized to preserve the scaled (1/24) volumes and the ratio between the leg length and the square root of the diameter, L/\sqrt{D} , to simulate the two-phase flow regime transitions in these legs [6].

This test was conducted using the LSTF first core assembly which was replaced by the second assembly in late 1988. The first core assembly consisted of 1024 electrically heated rods and 64 unheated rod. The rod diameter, length and lattice arrangement were the same as a prototypical 17x17 fuel rod bundle. The core power axial profile was a 9-step chopped cosine with a peaking factor of 1.495.

2.2 Test Instrumentation

More than 2300 transducers were used for measurement of thermal-hydraulic parameters during the test. About 70% of these transducers were thermocouples for measurement of fluid and solid wall temperatures as well as temperature differences. About 400 conduction probes were used to detect the presence of liquid at various locations in the vessel and loops. Other conventional instruments included measurement of pressures, differential pressures, collapsed liquid level based on differential pressure measurements, and flowrates based on differential pressure measurements across orifices or nozzles.

In addition, measurements were made using more or less advanced two-phase flow instruments including gamma-ray densitometers, drag discs and

turbine meters. Visual observation of the flow in the primary loops was also made using high-pressure video probes located at the inlet and outlet legs of the two SGs.

Table 2.2 shows a list of data channels. Each data channel is given three identifiers as shown in this table. For instance, the identifiers given to the pressurizer pressure (high range measurement) are:

Sequential No.: 1395
 Function ID.: PE-13
 Tag Name: PE300A-PR

The Tag Name is a fixed naming unique to each measurement and is not changed unless there is change in measurement hardware or location. However, the Sequential No. and Function ID. for a certain measurement may be changed from a test to another as a consequence of addition or elimination of other measurements. The first two letters in the Function ID. and Tag Name ("PE" for the above example) represents the kind of variable or the kind of measurement as follows:

CP: Conduction probe signal
 DE: Fluid density
 DP: Differential pressure
 DT: Differential temperature
 FE: Flow rate, measured with conventional (differential pressure) flow meters
 MF: Momentum flux
 MI: Miscellaneous instrument signals (power, pump rotating speed, etc.)
 LE: Collapsed water level
 PE: Pressure
 TE: Fluid temperature
 TW: Heater rod and structure temperature

Data from these measurements are processed after the test to obtain the "secondary" data, e.g., area-averaged fluid density derived from measurement with 3-beam gamma-ray densitometer. These data are stored with Function ID.s starting with a prefix of "RC". For instance, the Function ID. given to the Loop-B hot leg area-averaged density (Ser. No. = 20161, Tag Name = DAE151-HLB) is RC 49.

Table 2.2 also includes a brief description of measurement location (and/or variable), indicates measurement range, evaluated accuracy, and gives a statement on data quality for each channel. Although the data quality was affected by the failure of the data acquisition system, the quality description in this table does not take into account this.

Most of the important measurement locations are shown in drawings given in Appendix A of this report.

Experimental data for this test were recorded using two data acquisition systems YEWCOM 7000 and FACOM 3300. The data sampling rate was 2 Hz for thermocouples, 10 Hz for conduction probes and 5 Hz for other instruments. The data loggers were turned on 300 s before break. Data reduction and qualification procedures are described in Appendix B of this report.

One of the data loggers, YEWCOM 7000, failed to record data for 163 s between 382 and 545 s after break. For this time period, the value of data for the affected channels was fixed to be zero during the data reduction process.

2.3 Test Facility and Instrumentation Changes after Previous Test

No permanent facility/instrumentation change was made between the previous test, SB-CL-16 conducted on March 2, 1988, and the present test.

3. TEST INITIAL CONDITIONS

The initial steady-state conditions for this test, summarized in Table 3.1, were in agreement with test specifications which were in conformance with the standard initial conditions for the LSTF SBLOCA tests.

The LSTF standard initial conditions include the primary system pressure (15.5 MPa) as well as hot leg temperature (598 K) and cold leg temperature (562 K) representative of the nominal operating conditions of the reference PWR. Since the maximum core electric power available to the LSTF is limited to 10 MW, which is 14% of the volumetrically-scaled PWR nominal power, these temperatures are obtained by setting the core flowrate at 14% of the scaled PWR flowrate. Accordingly, the steady-state pump head is much smaller than that in the reference PWR. The steady-state primary-to-secondary heat transfer rate must be also limited to 10 MW to establish a steady state. Thus, the secondary system is operated at 7.3 MPa, close to the saturation pressure corresponding to the cold leg temperature, rather than at the prototypical secondary pressure of 6.1 MPa.

The bypass flow through the simulated hot leakages is one of the test variables for the LSTF SBLOCA tests. In this test, the leakage flowrate was about 0.05 kg/s for each loop during the initial steady state.

4. TEST BOUNDARY CONDITIONS AND TEST PROCEDURES

4.1 Break Conditions

The break unit was connected to the vertically upward break nozzle (Nozzle N-7c, shown in Fig. 4.1) on the Loop-B (the loop without pressurizer) hot leg. The geometry of the break unit is shown in Fig. 4.2. It included a sharp-edged thin-plate break orifice of 31.9 mm diameter (Fig. 4.3) which was mounted flush with the hot leg inner surface. The break area provided by this orifice was 10.0% of the volumetrically (1/48) scaled flow area of the reference PWR COLD LEG. The break flow was routed from the break unit into subcooled water in the catch tank (designated as "ST") to condense the steam. The break flowrate was evaluated by differentiating with respect to time the tank water level measured with differential pressure transducers. To stabilize steam condensation in the catch tank, air was injected at a rate of 30 Nm^3 into the blowdown line.

The break unit was connected to both the hot leg and cold leg, both in Loop B. The cold leg break unit was used in the follow on test which studied the loop seal refilling phenomenon.

4.2 Operational Setpoints and Failure Assumptions

The LSTF standard operational setpoints are shown in Fig. 4.4. The specified setpoints for this test are shown in Table 4.1. For the present test, both HPI and AFW systems were assumed to be unavailable on demand. In addition, loss of offsite power was assumed to occur concurrently with scram. The facility trace heaters, used for compensation of heat loss to the environment, were turned off at the initiation of break.

4.3 Post-Scram Core Power Decay

The time history of the core electric power for this test is shown in Fig. 4.5. The core power was regulated by the test sequence controller, CENTUM, to simulate the post-scram core power decay according to a pre-programmed decay curve which is shown in a tabular form in Table 4.2. The decay curve used in this test, designated the "JAERI-new" power decay curve [3] in the ROSA-IV program, was developed by considering the fission

product decay, fission power decay and delayed neutron effects. Another version of JAERI-developed more conservative power decay curve has been used for a number of experiments including Run SB-HL-02 (10% side break).

Since the maximum core power available in the LSTF is limited to 10 MW, i.e., 14% of the 1/48 scaled PWR nominal power, the "JAERI" power decay curve maintains the LSTF core power at the initial value of 10 MW, until the scaled PWR core decay power drops to 10 MW, at 18 s after the generation of the scram signal [3]. After this time, the core electric power is regulated to follow the scaled PWR core power decay.

This test was conducted with the "Case 3" core power radial distribution (see Fig. 5.6.2 of Ref. [1]) having a radial peaking factor of 1.51.

4.4 Pressurizer Heaters and Spray Control

Figure 4.6 shows the pressurizer heater powers vs. time. The heater powers were raised immediately after break in an automatic response to the pressurizer pressure drop, and were tripped off as the pressurizer level dropped below the setpoint level of 1.0 m above the bottom, with small unintentional delays. The pressurizer spray was turned off immediately after break (1 s) automatically.

4.5 Pump Coastdown Control

Figure 4.7 shows the primary coolant pump speed. The pump speed decay was controlled by CENTUM according to a preprogrammed decay. The speed was first increased automatically after break until pump coastdown was initiated at 12 s by the scram signal. This increase in pump speed is part of the LSTF standard test procedure, and is done for better simulation of PWR pressure and temperature transients after scram [7]. The decay curve was the same as one used in previous LSTF SBLOCA tests. The pump speed control ended at 266 s after break, as the power to the pumps was turned off.

4.6 ECCS Operational Conditions

The ECCS injection conditions are summarized in Table 4.3. The injection point was on the leg pipe top at the pump side of both cold legs (Nozzles N-14a and 14b in Fig. 4.1). The ECCS line connections are shown

schematically in Fig. 4.8.

The HPI system was assumed to be unavailable on demand, and unused in this test.

The two ACC tanks, designated "ACC-cold" and "ACC-hot" tanks, because the latter is capable of operating at high initial temperatures, were connected to the Loop-A cold leg (CL-A) and Loop-B cold leg (CL-B), respectively (Fig. 4.8). The ACC initial and operational conditions were determined such that the ratio of injection flowrate to Loop A and B cold legs would be 3:1. The initial levels in the two tanks were set such that the initial gas volume in the ACC-cold tank was three times larger than that for the ACC-hot tank. The injection valve for each tank was closed when the tank level dropped to a predetermined level to control the total amount of injection. The valve closing setpoint levels were chosen so that the total amount of injection would be three times larger for Loop A than that for Loop B. The specified total injection volumes was 1.6815 m^3 for Loop A and 0.5605 m^3 for Loop B.

The low pressure injection (LPI) system was assumed operative at its full (no-failure) capacity. The flow vs. pressure characteristics, programmed in CENTUM, are shown in Fig. 4.9. It was intended to have a LPI flow ratio of 3:1 between CL-A and CL-B as was the case for both ACC and HPI. To obtain such flow partition between the two loops using a single LPI pump, flow resistance was added by using throttle valves to the line connecting the pump to each loop.

4.7 Operator Intervention

No operator intervention was made after the test initiation, until the test was terminated by manually closing the break valve at 1355 s after break (19:52:27).

The facility heat tracing was turned off before the initiation of the test except for that on the accumulator injection pipings.

4.8 Test Preparation Procedure

The test preparation for Run SB-HL-04 followed the LSTF standard procedure.

The venting of air from the primary system was done in several steps

as follows.

First, the system was filled with demineralized water up to the bottom of the horizontal legs. The system was then vented using three vacuum pumps, connected to the top of the pressurizer and to the outlet plenum of both SGs, until the air space pressure reached 735 mm Hg below atmospheric.

Next, the remaining air was purged by injecting steam into the system gas spaces. The steam was generated in the Acc-hot tank using an electric heater installed in the tank, and was injected into the outlet plenum of both SGs and into the pump discharge side of both cold legs. This system became available since Run SB-CL-16 that was conducted 3 weeks before the present test [2]. The vacuum pump connected to the pressurizer was operated continuously. The purging was continued until well after the primary system gas phase temperatures had reached the vapor saturation temperature.

Finally, the system was filled with water and was pressure tested. Under the pressurized condition, the coolant pumps were operated repeatedly at their full capacities to transport the air bubbles that may have remained at the tops of the SG U-tubes to the other parts of the system and ultimately to the pressurizer where the air would be vented.

After these steps were completed, the system was depressurized and was slightly drained to lower the water level into the pressurizer. The amount of air remaining in the system was then measured by pressurizing the system by injecting gas into the pressurizer air space and measuring the pressurizer level drop in response to this pressure increase. The level drop occurred due to the compressibility of the air remaining in the system. The measured level drop was 0.08 m for a gas space pressure increase of 0.69 MPa from atmospheric. From this measurement the volume of air which remained in the system is estimated to be 0.026 m^3 under atmospheric pressure.

5. TEST RESULTS

The chronology of major events in Run SB-HL-04 is shown in Table 5.1. The timing of event was read from the Event Record File (ERF) created on the YEWCOM data logger for those events recorded therein, e.g., valve closure and opening, and from the experimental data for other events. Table 5.2 shows a listing of ERF. The test was initiated at time 0 s (19:29:52, March 29, 1988) by opening the break valve (AOV-300-BU), and was terminated at 1933 s by closing the same valve.

One of the data loggers, YEWCOM 7000, failed to record data for 163 s, between 382 and 545 s after break. For this time period, the value of data for the affected channels was fixed to be zero during the data reduction process.

5.1 Primary/Secondary Pressure Responses and Trip-Initiated Events

The primary and secondary pressure responses are shown in Figs. 5.1 and 5.2. The primary system depressurized quickly after break, and reached the scram signal setpoint pressure of 12.97 MPa at 6 s. The reactor scram signal, programmed to be generated by CENTUM with a 1 s delay, initiated core power decay at 30 s (see Fig. 4.5) after the power was maintained at the initial value (10 MW) for 18 s after receiving the scram signal [3] (see Subsection 4.3), tripped off the main feedwater at 12 s, and initiated the closure of the main steam valves at 10 s. The feedwater and steam flow-rates are shown in Figs. 5.3 and 5.4 for SG-A and SG-B, respectively.

Loss of offsite power was assumed to occur concurrently with scram. Thus, the scram signal also initiated the coastdown of coolant pump speed which had been raised after break (see Fig. 4.7). Also, the turbine bypass system was unavailable for this test because of the same assumption.

The pressurizer pressure reached the safety injection signal setpoint of 12.27 MPa at 9 s after break. However, this signal was not effective because of the assumed unavailability of HPI.

The secondary system pressure (Figs. 5.1 and 5.2) increased, for both loops, after the closure of the steam valve. The SGs were isolated after scram from both the steam and feedwater lines, since neither AFW nor turbine bypass systems was available for this test. The secondary atmospheric relief valve (ARV) was lifted once for the intact loop and remained

closed for the broken loop, as shown in Figs. 5.3 and 5.4. The ARVs were programmed to open and close at 8.03 and 7.82 MPa, respectively. The secondary pressure behavior was asymmetric after the opening of ARV for the intact loop.

The crossover between the primary and secondary pressures occurred between 60 and 70 s, as shown in Fig. 5.2, before the break flow transition from two-phase flow to steam. The primary to secondary heat transfer thus ended at this time. The level drop in the SG secondaries was small (Figs. 5.5 and 5.6) since primary to secondary heat transfer continued only for about 60 s after break.

5.2 Loop Flowrates

The loop flowrate (Figs. 5.7 and 5.8), measured at the pump suction leg was somehow asymmetric during the quick flow decay in both loops following the pump coastdown that was initiated by the scram signal. The flow measurement was meaningful until about 100 s when the Loop-A flowmeter venturi started voiding.

5.3 Hot Leg and SG Primary Side Voiding

The hot leg fluid densities (Figs. 5.9 and 5.10), conduction probe signals (Figs. 5.11 and 5.12) and the fluid temperatures (Figs. 5.13 and 5.14) indicate that the hot leg fluid became saturated almost immediately after break. Phase stratification (formation of stratified two-phase flow) was less evident than for smaller breaks (e.g., 0.5% break), however, the 3-beam densitometer data shows density stratification after about 50 s.

The hot leg density behavior was asymmetric between the two loops. Generally, the area-averaged density was lower for the broken hot leg than for the intact hot leg.

The SG upflow and downflow side differential pressures are shown in Figs. 5.15 through 5.18. Six out of the 141 U-tubes per SG were instrumented with differential pressures transducers. Soon after the hot legs became saturated, voids penetrated into the SG upflow side causing the differential pressure on this side to drop.

The SG voiding behavior was asymmetric, for each SG, between the upflow and downflow side, and also was asymmetric between the two SGs. The

SG-A U-tubes became empty of liquid at 75 s for the downflow side and at 100 s for the upflow side; SG-B became empty at 95 s for the downflow side and 105 s for the upflow side.

5.4 Break Flowrate

The break flow measurement with use of the break unit venturi was unavailable for this test since the break orifice was mounted flush with the inner surface of the broken hot leg piping.

Figure 5.19 shows the break flowrate derived from the level rise in the break flow catch tank. The tank water level, shown in Fig. 5.20, was derived from differential pressure measurements. Air injection into the break flow line (see Section 4.1) effectively stabilized steam condensation in the break flow catch tank.

It appears, from Fig. 5.19, that the break flow was two-phase until about 160 s when the break flow apparently changed to steam flow. At this time, both hot legs were in the process of a quick emptying as shown in Figs. 5.9 and 5.10. Namely, it appears that liquid was carried over, by steam, to the break almost as long as there was any liquid in the broken hot leg.

5.5 Cold Leg and Downcomer Voiding

The cold leg fluid densities (Fig. 5.21 and 5.22) and fluid temperatures (Figs. 5.23 and 5.24) show fluid saturation and flashing during primary depressurization. With HPI being inactive, the cold leg temperatures and the downcomer temperatures (Fig. 5.25) were nearly equal to the secondary fluid temperature (i.e., the saturation temperature at about 8 MPa). Thus, when the primary pressure became lower than the secondary pressure, after 60 to 70 s, fluid in these regions started flashing.

The steam generated by flashing was trapped in the cold leg and upper downcomer, as the lower downcomer and the loop seals remained liquid filled, thus forming a steam "bubble" isolated from the loop hot side steam region. The cold legs were almost empty of liquid after about 160 s.

The downcomer level started decreasing at 140 s, as shown in Fig. 5.26, uncovering the cold leg nozzles, as the steam volume was expanding in response to the system depressurization.

Concurrent with the downcomer level drop was a level drop in the loop seal upflow leg (pump suction leg) for both loops. The loop seal differential pressures are shown in Figs. 5.27 and 5.28. The loop seal fluid densities and temperatures are shown in Figs. 5.29 through 5.32. The loop-seal upflow leg level response was nearly symmetric between the two loops.

The primary depressurization was so steep that the steam generated by flashing depressed the loop-seal upflow leg level to the bottom at 200 s, for both loops, and further penetrated into the Loop-B loop seal downflow leg. Level swell occurred in this leg, as the fluid in this leg was bubbled by steam coming from the cold leg.

The steam release through the loop seal relieved the differential pressure between the cold legs and hot legs (Fig. 5.33) and thereby caused a drop in the core differential pressure (Fig. 5.34).

There is a possibility that steam was also relieved from the downcomer into the lower plenum region at 200 s. At this time, the downcomer water level, depressed by the upper plenum-to-downcomer differential pressure, was close to the lower leg of the downcomer overall differential pressure measurement (DPE-360-PV) that was lower than the top of the connections between the downcomer and lower plenum across the lower core barrel.

5.6 Condensation Depressurization Following ACC Injection and Loop Seal Clearing

The primary pressure reached the ACC injection pressure (4.51 MPa) at 242 s, as shown in Fig. 5.35. It appears that the injection occurred twice for each loop as shown in Fig. 5.36. (There is a large uncertainty for the accumulator injection behavior since lots of data were lost between 382 and 545 s due to the failure of the data logger.) The injection flowrate was about three times larger for Loop A than for Loop B (Fig. 5.37) in accordance with test specification. The flow rates indicated in Fig. 5.37 were derived by differentiating the tank water level with respect to time, and are meaningless between 380 and 550 s.

The first ACC injection caused condensation of steam in the cold leg and downcomer steam space. This resulted in steep depressurization of the entire primary system. Since this depressurization caused the cold leg pressure to become lower than the hot leg pressure (Fig. 5.33), the core

level was depressed temporarily, as shown in Fig. 5.34, until the loop seals were cleared of liquid, at 290 s, by this differential pressure. The core level then recovered quickly as the differential pressure was relieved by loop seal clearing. Similar behavior has been observed for 5% hot leg break experiments [5].

The cold leg density data (Figs. 5.22 and 5.22) suggests that the ACC flow was interrupted between 380 and 530 s, probably because the core reflooding increased the steam production in the core and thereby raised the primary pressure above the ACC tank pressure. The second injection appears to have occurred between 530 and 590 s. The ACC injection valve closed at 586 and 590 s for the ACC-hot and ACC-cold tanks, respectively, as the tank levels dropped to the injection-valve closure setpoint levels.

5.7 Core Thermal-Hydraulic Responses

The core collapsed liquid level, derived from the differential pressure (Fig. 5.34), is shown in Fig. 5.38. The core started uncovering at 230 s due to depletion (boil-off) of the vessel coolant inventory. At this time, the differential pressure between the upper plenum and downcomer (Fig. 5.33) was negative, due to the flashing in the cold legs and downcomer. This differential pressure pushed up the core liquid level keeping the core collapsed liquid level higher than the downcomer water level. The steam relief through Loop-B loop seal resulted in core level drop that led to core uncovering. The core level was depressed steeply by the cold leg/downcomer condensation depressurization following the initiation of ACC injection at 242 s. The core level recovered quickly after loop seals were cleared at 270 s.

The collapsed liquid level distribution in the primary system at various stages of transient is shown in Fig. 5.39. The distribution was derived from differential pressure measurement alone, and does not reflect the fluid density measurements for the horizontal legs.

Typical core heater rod temperature behavior is shown in Fig. 5.40. The heatups reached to the third lowest temperature measurement station (Position 3). The peak temperature reached 620 k, about 100 k higher than the saturation temperature at the time when this temperature was recorded. The radial and axial progressions of core dryout and quenching are shown in Fig. 5.41.

5.8 Long-Term System Cooldown

After the ACC injection was terminated, at 590 s for Loop A and at 586 s for Loop B, respectively, LPI initiated automatically at 807 s as the injection pressure (1.29 MPa) was reached. However, the flow was going only into Loop A, as shown in Fig. 5.42 due to an imbalance between Loop A and Loop B cold leg pressures. The test was terminated at 1355 s after break.

6. CONCLUDING REMARKS

The LSTF 10% hot-leg small-break LOCA test Run SB-HL-04 was conducted on March 29, 1987. The facility, including most of the transducers for test instrumentation, as well as test sequence control, functioned as specified. However, one out of the data acquisition system stopped between 382 and 545 s after break, for 163 s, and data were therefore not recorded for this time period.

The test results were characterized by flashing and in the loop cold side (cold legs and downcomer) and condensation depressurization in the same regions following accumulator injection. These affected largely the core liquid level responses during the transient. Temporary core liquid level depression and rod surface heatups reaching 620 K, about 100 above the saturation temperature, were observed.

All the experimental data from this test, qualified using both automatic and manual methods, are presented in this report.

ACKNOWLEDGMENT

Data reduction in preparation of this report was done by Y. Shimane, T. Nakajima and K. Toyoda of the ISL Co.

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The test results were characterized by flashing and in the loop cold side (cold legs and downcomer) and condensation depressurization in the same regions following accumulator injection. These affected largely the core liquid level responses during the transient. Temporary core liquid level depression and rod surface heatups reaching 620 K, about 100 above the saturation temperature, were observed.

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Table 2.1 Major Design Characteristics of LSTF

		LSTF	PWR	PWR/LSTF
Pressure	(MPa)	16	16	1
Temperature	(K)	598	598	1
No. of fuel rods		1064	50952	48
Core height	(m)	3.66	3.66	1
Fluid volume V	(m ³)	7.23	347	48
Core power P	(MW)	10	3423(t)	342
P/V	(MW/m ³)	1.4	9.9	7.1
Core inlet flow	(ton/s)	0.0488	16.7	342
Downcomer gap	(m)	0.053	0.260	4.91
Hot leg D	(m)	0.207	0.737	3.56
L	(m)	3.69	6.99	1.89
L/ \sqrt{D}	(m ^{1/2})	8.15	8.15	1.0
$\frac{\pi}{4}D^2 L$	(m ³)	0.124	2.98	24.0
No. of loops		2	4	2
No. of tubes in steam generator		141	3382	24
Length of steam generator tube (average)	(m)	20.2	20.2	1.0

Table 2.2 Measurement List for Run SB-HL-04

ADQ DATA QUALITY RECORD (DQR)				LSTF EXP. SB-HL-04 (SH4)		EXP. DATE 88-03-29 PAGE 1						
ICF	REV	DATE	88-06-23	ICF	REV	DATE	88-07-19	LCV XXX	REV YYY	DOY SH4	RUN DATE 90-12-17	
SEQ	FUNC	TAG NAME		LOCATION						SPAN LIMITS	UNIT	UNCERTAINTY
NO.	ID.									LO	HI	ABS. REL.(%)
1	TE	1	TE010A-HLA	HLA Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
2	TE	2	TE010B-HLA	HLA Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
3	TE	3	TE010C-HLA	HLA Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
4	TE	4	TE010D-HLA	HLA Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
5	TE	5	TE010E-HLA	HLA Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
6	TE	6	TE020C-HLA	HLA Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
7	TE	7	TE020D-HLA	HLA Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
8	TE	8	TE030C-HLA	HLA Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
9	TE	9	TE030D-HLA	HLA Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
10	TE	10	TE040A-HLA	HLA SG Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
11	TE	11	TE040B-HLA	HLA SG Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
12	TE	12	TE040C-HLA	HLA SG Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
13	TE	13	TE040D-HLA	HLA SG Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
14	TE	14	TE040E-HLA	HLA SG Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
15	TE	15	TE050C-LSA	LSA Fluid				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
16	TE	16	TE070C-CLA	CLA Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
17	TE	17	TE070D-CLA	CLA Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
18	TE	18	TE080C-CLA	CLA Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
19	TE	19	TE080D-CLA	CLA Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
20	TE	20	TE090A-CLA	CLA Vessel Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
21	TE	21	TE090B-CLA	CLA Vessel Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
22	TE	22	TE090C-CLA	CLA Vessel Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
23	TE	23	TE090D-CLA	CLA Vessel Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
24	TE	24	TE090E-CLA	CLA Vessel Side CPT				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
25	TE	25	TE100-HLA	HLA-CLA Average				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
26	TE	26	TE150A-HLB	HLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
27	TE	27	TE150B-HLB	HLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
28	TE	28	TE150C-HLB	HLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
29	TE	29	TE150D-HLB	HLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
30	TE	30	TE150E-HLB	HLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
31	TE	31	TE160C-HLB	HLB Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
32	TE	32	TE160D-HLB	HLB Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
33	TE	33	TE170C-HLB	HLB Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
34	TE	34	TE170D-HLB	HLB Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
35	TE	35	TE180A-HLB	HLB SG Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
36	TE	36	TE180B-HLB	HLB SG Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
37	TE	37	TE180C-HLB	HLB SG Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
38	TE	38	TE180D-HLB	HLB SG Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
39	TE	39	TE180E-HLB	HLB SG Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
40	TE	40	TE190C-LSB	LSB Fluid				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
41	TE	41	TE210C-CLB	CLB Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
42	TE	42	TE210D-CLB	CLB Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
43	TE	43	TE220C-CLB	CLB Fluid at Pipe Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
44	TE	44	TE220D-CLB	CLB Fluid at Pipe Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
45	TE	45	TE230A-CLB	CLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
46	TE	46	TE230B-CLB	CLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
47	TE	47	TE230C-CLB	CLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
48	TE	48	TE230D-CLB	CLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
49	TE	49	TE230E-CLB	CLB Vessel Side CPT				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
50	TE	50	TE240-HLB	HLB-CLB Average				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
51	TE	51	TE270C-PR	PR Spray Line				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
52	TE	52	TE270C-PR	PR Surge Line				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
53	TE	53	TE290-PR	PR Relief Valve				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
54	TE	54	TE300-PR	PR Safety Valve				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
55	TE	55	TE450-SGA	SGA Feedwater Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
56	TE	56	TE440-SGA	SGA Main Steam Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
57	TE	57	TE450-SGA	SGA Relief Valve Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
58	TE	58	TE460-SGA	SGA Safety Valve Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
59	TE	59	TE470-SGB	SGB Feedwater Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
60	TE	60	TE480-SGB	SGB Main Steam Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
61	TE	61	TE470-SGB	SGB Relief Valve Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
62	TE	62	TE500-SGB	SGB Safety Valve Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
63	TE	63	TE510-SH	MSL Steam Header				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
64	TE	64	TE570-JC	JC Hot Water				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
65	TE	65	TE530-JC	JC Suction Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
66	TE	66	TE540-JC	JC Spray Water				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
67	TE	67	TE550-JC	JC Steam Vent Line				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
68	TE	68	TE431-SGA	SGA Downcomer A				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
69	TE	69	TE412-SGA	SGA Downcomer B				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
70	TE	70	TE433-SGA	SGA Downcomer C				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
71	TE	71	TE440-SGA	SGA Downcomer D				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
72	TE	72	TE471-SGB	SGB Downcomer A				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
73	TE	73	TE472-SGB	SGB Downcomer B				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
74	TE	74	TE473-SGB	SGB Downcomer C				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
75	TE	75	TE474-SGB	SGB Downcomer D				GOOD		2,700+2	6,700+2 K	3,108+0 7,770-1
76	TE	76	TE560C-BU	BU No.1 Upstream Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
77	TE	77	TE5600-BU	BU No.1 Upstream Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
78	TE	78	TE570C-BU	BU No.1 Downstream Top				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
79	TE	79	TE5700-BU	BU No.1 Downstream Bottom				GOOD		2,700+2	7,200+2 K	3,307+0 7,350-1
80	TE	80	TE580C-BU	BU No.2 Upstream Top				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
81	TE	81	TE5800-BU	BU No.2 Upstream Bottom				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
82	TE	82	TE5810-BU	BU No.2 Downstream Top				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
83	TE	83	TE5900-BU	BU No.2 Downstream Bottom				UNUSED		2,700+2	7,200+2 K	3,307+0 7,350-1
84	TE	84	TE600-SI	SI Inlet Line				GOOD		2,700+2	4,700+2 K	2,304+0 1,152+0
85	TE	85	TE610-SI	SI Bottom Region				GOOD		2,700+2	4,700+2 K	2,304+0 1,152+0

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSTF EXP. SB-HL-04 (SHA)		EXP. DATE 88-03-29 PAGE 2			
ICF REV DATE 88-05-23	RCF DATE 88-09-19	LCV XXX	RCV YYY	09Y SH4		RUN DATE 90-12-17			
SEQ NO	FUNC ID	TAG NAME	LOCATION	DATA QUALITY		SPAN LO	LIMITS HI	UNIT	UNCERTAINTY
								ABS.	REL.(%)
86	TE 86	TE620-ST	ST Middle Region	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
87	TE 87	TE630-ST	ST Top Region	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
88	TE 88	TE640-ST	ST Spray Line	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
89	TE 89	TE650-ACC	Cold Acc Tank Bottom	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
90	TE 90	TE660-ACC	Cold Acc Tank Top	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
91	TE 91	TE670-ACC	Cold Acc Line to CLA	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
92	TE 92	TE680-ACC	Cold Acc Line to CLB	GOOD		2,700+2	5,700+2	K	2,706+0 9,020-1
93	TE 93	TE690-ACH	Hot Acc Tank Bottom	GOOD		2,700+2	5,700+2	K	2,706+0 9,020-1
94	TE 94	TE700-ACH	Hot Acc Tank Top	GOOD		2,700+2	5,700+2	K	2,706+0 9,020-1
95	TE 95	TE710-ACH	Hot Acc Line to CLA	GOOD		2,700+2	5,700+2	K	2,706+0 9,020-1
96	TE 96	TE720-ACH	Hot Acc Line to CLB	GOOD		2,700+2	5,700+2	K	2,706+0 9,020-1
97	TE 97	TE730-NLA	NLA ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
98	TE 98	TE740-LSA	LSA ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
99	TE 99	TE750-CLA	CLA ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
100	TE 100	TE760-HLB	HLB ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
101	TE 101	TE770-LSB	LSB ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
102	TE 102	TE780-CLB	CLB ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
103	TE 103	TE790-PV	PV Bottom ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
104	TE 104	TE800-PV	PV Top ECCS Nozzle	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
105	TE 105	TE810-PJ	Charging Flow to CLA	GOOD		2,700+2	3,700+2	K	1,902+0 1,902+0
106	TE 106	TE820-PL	RHR Inlet Region	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
107	TE 107	TE830-PL	RHR Outlet Region	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
108	TE 108	TE840-PL	RHR Injection Line	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
109	TE 109	TE850-PL	RHR Sec. Inlet Line	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
110	TE 110	TE860-PL	RHR Sec. Upper Region	GOOD		2,700+2	6,700+2	K	3,108+0 7,770-1
111	TE 111	TE870-PL	RHR Sec. Steam Vent Line	GOOD		2,700+2	4,700+2	K	2,304+0 1,152+0
112	TE 112	TE880-RVST	RWST Tank Lower Region	GOOD		2,700+2	3,700+2	K	1,902+0 1,902+0
113	TE 113	TE890-RVST	RWST Tank Middle Region	GOOD		2,700+2	3,700+2	K	1,902+0 1,902+0
114	TE 114	TE900-EX	NZ Gas Line	UNUSED		2,700+2	9,700+2	K	4,312+0 6,160-1
115	TE 115	TE-E066F-PV	Upper Head Bottom	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
116	TE 116	TE-W066F-PV	Upper Head Bottom	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
117	TE 117	TE-E075F-PV	Upper Head Middle	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
118	TE 118	TE-W075F-PV	Upper Head Middle	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
119	TE 119	TE-E081F-PV	Upper Head Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
120	TE 120	TE-W081F-PV	Upper Head Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
121	TE 121	TE-E080H-PV	CR Guide Tube Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
122	TE 122	TE-W080H-PV	CR Guide Tube Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
123	TE 123	TE-E049F-PV	Upper Plenum Bottom	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
124	TE 124	TE-W049F-PV	Upper Plenum Bottom	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
125	TE 125	TE-E055F-PV	Upper Plenum Middle	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
126	TE 126	TE-W055F-PV	Upper Plenum Middle	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
127	TE 127	TE-E060F-PV	Upper Plenum Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
128	TE 128	TE-W060F-PV	Upper Plenum Top	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
129	TE 129	TE-IN038-B09-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
130	TE 130	TE-IN038-B11-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
131	TE 131	TE-IN038-B01-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
132	TE 132	TE-IN038-B03-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
133	TE 133	TE-IN038-B05-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
134	TE 134	TE-IN038-B07-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
135	TE 135	TE-IN038-B21-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
136	TE 136	TE-IN038-B23-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
137	TE 137	TE-IN038-B02-UCP	Below Upper core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
138	TE 138	TE-IN038-B06-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
139	TE 139	TE-IN038-B14-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
140	TE 140	TE-IN038-B15-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
141	TE 141	TE-IN038-B18-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
142	TE 142	TE-IN038-B19-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
143	TE 143	TE-IN016-B10-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
144	TE 144	TE-IN038-B12-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
145	TE 145	TE-IN038-B04-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
146	TE 146	TE-IN038-B08-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
147	TE 147	TE-IN038-B22-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
148	TE 148	TE-IN038-B24-UCP	Below Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
149	TE 149	TE-EX040-B09-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
150	TE 150	TE-EX040-B11-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
151	TE 151	TE-EX040-B01-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
152	TE 152	TE-EX040-B03-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
153	TE 153	TE-EX040-B05-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
154	TE 154	TE-EX040-B07-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
155	TE 155	TE-EX040-B21-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
156	TE 156	TE-EX040-B23-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
157	TE 157	TE-EX040-B02-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
158	TE 158	TE-EX040-B06-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
159	TE 159	TE-EX040-B14-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
160	TE 160	TE-EX040-B15-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
161	TE 161	TE-EX040-B19-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
162	TE 162	TE-EX040-B19-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
163	TE 163	TE-EX040-B10-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
164	TE 164	TE-EX040-B12-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
165	TE 165	TE-EX040-B04-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
166	TE 166	TE-EX040-B05-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
167	TE 167	TE-EX040-B22-UCP	Above Upper Core Plate	GOOD		2,700+2	9,700+2	K	4,312+0 6,160-1
168	TE 168	TE-EX040-B24-UCP	Above Upper Core Plate	GOOD		2,700+2	7,200+2	K	3,307+0 7,350-1
169	TE 169	TE-IN-007B02-LCP	Below Lower Core Plate	GOOD		2,700+2	7,200+2	K	3,307+0 7,350-1
170	TE 170	TE-IN-007B03-LCP	Below Lower Core Plate	GOOD		2,700+2	7,200+2	K	3,307+0 7,350-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR) LIST EXP. SB-HL-04 (SHA)				EXP. DATE 88-01-29 PAGE 3				
ICF REV DATE 88-06-23		RDF DATE 88-09-19		LCV XXX	RCV YYY	DQR SHA	RUN DATE 90-12-17	
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY
				L	H	LO	HI	ABS. REL.(%)
171	TE 171	TE-IN-002806-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
172	TE 172	TE-IN-002807-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
173	TE 173	TE-IN-002809-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
174	TE 174	TE-IN-002811-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
175	TE 175	TE-IN-002814-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
176	TE 176	TE-IN-002816-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
177	TE 177	TE-IN-002818-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
178	TE 178	TE-IN-002820-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
179	TE 179	TE-IN-002821-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
180	TE 180	TE-IN-002823-LCPP	Below Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
181	TE 181	TE-EX-000802-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
182	TE 182	TE-EX-000803-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
183	TE 183	TE-EX-000806-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
184	TE 184	TE-EX-000807-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
185	TE 185	TE-EX-000809-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
186	TE 186	TE-EX-000811-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
187	TE 187	TE-EX-000814-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
188	TE 188	TE-EX-000816-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
189	TE 189	TE-EX-000818-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
190	TE 190	TE-EX-000820-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
191	TE 191	TE-EX-000821-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
192	TE 192	TE-EX-000823-LCPP	Above Lower Core Plate	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
193	TE 193	TE-W000C-DC	Downcomer EL.0.0m,North	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
194	TE 194	TE-S000C-DC	Downcomer EL.0.0m,South	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
195	TE 195	TE-E000C-DC	Downcomer EL.0.0m,East	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
196	TE 196	TE-W000C-DC	Downcomer EL.0.0m,West	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
197	TE 197	TE-N018C-DC	Downcomer EL.1.8m,North	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
198	TE 198	TE-S018C-DC	Downcomer EL.1.8m,South	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
199	TE 199	TE-E018C-DC	Downcomer EL.1.8m,East	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
200	TE 200	TE-W018C-DC	Downcomer EL.1.8m,West	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
201	TE 201	TE-N036C-DC	Downcomer EL.3.6m,North	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
202	TE 202	TE-S036C-DC	Downcomer EL.3.6m,South	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
203	TE 203	TE-E036C-DC	Downcomer EL.3.6m,East	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
204	TE 204	TE-W036C-DC	Downcomer EL.3.6m,West	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
205	TE 205	TE-N060C-DC	Downcomer EL.6.0m,North	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
206	TE 206	TE-S060C-DC	Downcomer EL.6.0m,South	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
207	TE 207	TE-E060C-DC	Downcomer EL.6.0m,East	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
208	TE 208	TE-W060C-DC	Downcomer EL.6.0m,West	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
209	TE 209	TE-N055C-DC	Downcomer EL.5.5m,North	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
210	TE 210	TE-S055C-DC	Downcomer EL.5.5m,South	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
211	TE 211	TE-C-021-LP	Lower Plenum EL.-2.1m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
212	TE 212	TE-C-018-LP	Lower Plenum EL.-1.8m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
213	TE 213	TE-C-015-LP	Lower Plenum EL.-1.5m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
214	TE 214	TE-C-012-LP	Lower Plenum EL.-1.2m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
215	TE 215	TE-C-009-LP	Lower Plenum EL.-0.9m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
216	TE 216	TE-C-006-LP	Lower Plenum EL.-0.6m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
217	TE 217	TE-C-005-LP	Lower Plenum EL.-0.5m,C	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
218	TE 218	TE-C-004-LP	Lower Plenum EL.-0.3m,C	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
219	TE 219	TE-B18621	B18 Rad(6,2) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
220	TE 220	TE-B18622	B18 Rad(6,2) Pos.2,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
221	TE 221	TE-B18623	B18 Rad(6,2) Pos.3,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
222	TE 222	TE-B18624	B18 Rad(6,2) Pos.4,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
223	TE 223	TE-B18625	B18 Rad(6,2) Pos.5,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
224	TE 224	TE-B18626	B18 Rad(6,2) Pos.6,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
225	TE 225	TE-B18627	B18 Rad(6,2) Pos.7,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
226	TE 226	TE-B18628	B18 Rad(6,2) Pos.8,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
227	TE 227	TE-B18629	B18 Rad(6,2) Pos.9,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
228	TE 228	TE-B01221	B01 Rad(2,2) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
229	TE 229	TE-B01223	B01 Rad(2,2) Pos.3,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
230	TE 230	TE-B01225	B01 Rad(2,2) Pos.5,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
231	TE 231	TE-B01226	B01 Rad(2,2) Pos.6,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
232	TE 232	TE-B01227	B01 Rad(2,2) Pos.7,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
233	TE 233	TE-B01229	B01 Rad(2,2) Pos.9,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
234	TE 234	TE-B14262	B14 Rad(2,6) Pos.2,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
235	TE 235	TE-B14264	B14 Rad(2,6) Pos.4,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
236	TE 236	TE-B14268	B14 Rad(2,6) Pos.8,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
237	TE 237	TE-B05261	B05 Rad(2,6) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
238	TE 238	TE-B05263	B05 Rad(2,6) Pos.3,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
239	TE 239	TE-B05265	B05 Rad(2,6) Pos.5,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
240	TE 240	TE-B05266	B05 Rad(2,6) Pos.6,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
241	TE 241	TE-B05267	B05 Rad(2,6) Pos.7,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
242	TE 242	TE-B05269	B05 Rad(2,6) Pos.9,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
243	TE 243	TE-B04221	B04 Rad(2,2) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
244	TE 244	TE-B04223	B04 Rad(2,2) Pos.3,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
245	TE 245	TE-B04225	B04 Rad(2,2) Pos.5,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
246	TE 246	TE-B04226	B04 Rad(2,2) Pos.6,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
247	TE 247	TE-B04227	B04 Rad(2,2) Pos.7,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
248	TE 248	TE-B04229	B04 Rad(2,2) Pos.9,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
249	TE 249	TE-B07621	B07 Rad(6,2) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
250	TE 250	TE-B07623	B07 Rad(6,2) Pos.3,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
251	TE 251	TE-B07625	B07 Rad(6,2) Pos.5,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
252	TE 252	TE-B07626	B07 Rad(6,2) Pos.6,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
253	TE 253	TE-B07627	B07 Rad(6,2) Pos.7,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
254	TE 254	TE-B07629	B07 Rad(6,2) Pos.9,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1
255	TE 255	TE-B09661	B09 Rad(6,6) Pos.1,Fluid	GOOD		2.700+2	9.700+2	K 4.312+0 6.160-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSIF EXP. SB-ML-04 (SH4)		EXP. DATE 88-03-29 PAGE 4				
ICF REV DATE 88-06-23		RDF DATE 88-09-19		LCL XXX	RCV YYY	RDF SH4	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY			SPAN LIMITS	UNIT	UNCERTAINTY	
				LO	HI				ABS. REL.(%)	
256	TE 256	TE-B09663	B09 Rod(6,6) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
257	TE 257	TE-B09665	B09 Rod(6,6) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
258	TE 258	TE-B09666	B09 Rod(6,6) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
259	TE 259	TE-B09667	B09 Rod(6,6) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
260	TE 260	TE-B09669	B09 Rod(6,6) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
261	TE 261	TE-B10621	B10 Rod(6,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
262	TE 262	TE-B10623	B10 Rod(6,2) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
263	TE 263	TE-B10625	B10 Rod(6,2) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
264	TE 264	TE-B10626	B10 Rod(6,2) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
265	TE 265	TE-B10627	B10 Rod(6,2) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
266	TE 266	TE-B10629	B10 Rod(6,2) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
267	TE 267	TE-B11221	B11 Rod(2,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
268	TE 268	TE-B11223	B11 Rod(2,2) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
269	TE 269	TE-B11225	B11 Rod(2,2) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
270	TE 270	TE-B11226	B11 Rod(2,2) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
271	TE 271	TE-B11227	B11 Rod(2,2) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
272	TE 272	TE-B11229	B11 Rod(2,2) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
273	TE 273	TE-B14261	B14 Rod(2,6) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
274	TE 274	TE-B14263	B14 Rod(2,6) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
275	TE 275	TE-B14265	B14 Rod(2,6) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
276	TE 276	TE-B14266	B14 Rod(2,6) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
277	TE 277	TE-B14267	B14 Rod(2,6) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
278	TE 278	TE-B14269	B14 Rod(2,6) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
279	TE 279	TE-B15261	B15 Rod(2,6) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
280	TE 280	TE-B15263	B15 Rod(2,6) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
281	TE 281	TE-B15265	B15 Rod(2,6) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
282	TE 282	TE-B15266	B15 Rod(2,6) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
283	TE 283	TE-B15267	B15 Rod(2,6) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
284	TE 284	TE-B15269	B15 Rod(2,6) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
285	TE 285	TE-B16221	B16 Rod(2,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
286	TE 286	TE-B16223	B16 Rod(2,2) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
287	TE 287	TE-B16225	B16 Rod(2,2) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
288	TE 288	TE-B16226	B16 Rod(2,2) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
289	TE 289	TE-B16227	B16 Rod(2,2) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
290	TE 290	TE-B16229	B16 Rod(2,2) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
291	TE 291	TE-B15262	B15 Rod(2,6) Pos.2,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
292	TE 292	TE-B15264	B15 Rod(2,6) Pos.4,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
293	TE 293	TE-B15265	B15 Rod(2,6) Pos.8,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
294	TE 294	TE-B23221	B23 Rod(2,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
295	TE 295	TE-B23223	B23 Rod(2,2) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
296	TE 296	TE-B23225	B23 Rod(2,2) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
297	TE 297	TE-B23226	B23 Rod(2,2) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
298	TE 298	TE-B23227	B23 Rod(2,2) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
299	TE 299	TE-B23229	B23 Rod(2,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
300	TE 300	TE-B20661	B20 Rod(6,6) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
301	TE 301	TE-B20662	B20 Rod(6,6) Pos.2,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
302	TE 302	TE-B20663	B20 Rod(6,6) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
303	TE 303	TE-B20664	B20 Rod(6,6) Pos.4,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
304	TE 304	TE-B20665	B20 Rod(6,6) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
305	TE 305	TE-B20666	B20 Rod(6,6) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
306	TE 306	TE-B20667	B20 Rod(6,6) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
307	TE 307	TE-B20668	B20 Rod(6,6) Pos.8,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
308	TE 308	TE-B20669	B20 Rod(6,6) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
309	TE 309	TE-B22661	B22 Rod(6,6) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
310	TE 310	TE-B22662	B22 Rod(6,6) Pos.2,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
311	TE 311	TE-B22663	B22 Rod(6,6) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
312	TE 312	TE-B22664	B22 Rod(6,6) Pos.4,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
313	TE 313	TE-B22665	B22 Rod(6,6) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
314	TE 314	TE-B22666	B22 Rod(6,6) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
315	TE 315	TE-B22667	B22 Rod(6,6) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
316	TE 316	TE-B22668	B22 Rod(6,6) Pos.8,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
317	TE 317	TE-B22669	B22 Rod(6,6) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
318	TE 318	TE-B24621	B24 Rod(6,2) Pos.1,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
319	TE 319	TE-B24623	B24 Rod(6,2) Pos.3,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
320	TE 320	TE-B24625	B24 Rod(6,2) Pos.5,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
321	TE 321	TE-B24626	B24 Rod(6,2) Pos.6,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
322	TE 322	TE-B24627	B24 Rod(6,2) Pos.7,Fluid	GOOD			2.700+2	9.700+2	K	4.312+0 6.160-1
323	TE 323	TE-B24629	B24 Rod(6,2) Pos.9,Fluid	GOOD			2.700+2	9.700+2	K	3.307+0 7.350-1
324	TE 324	TE-IN0641-SGA	SGA Inlet Plenum	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
325	TE 325	TE-IN0642-SGA	SGA Inlet Plenum	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
326	TE 326	TE-IN0643-SGA	SGA U-Tube(1,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
327	TE 327	TE-IN0641-SGA	SGA Outlet Plenum	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
328	TE 328	TE-IN0642-SGA	SGA Outlet Plenum	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
329	TE 329	TE-IN0643-SGA	SGA Outlet Plenum	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
330	TE 330	TE-IN0661-SGA	SGA U-Tube(1,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
331	TE 331	TE-IN0662-SGA	SGA U-Tube(2,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
332	TE 332	TE-IN0663-SGA	SGA U-Tube(2,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
333	TE 333	TE-IN0664-SGA	SGA U-Tube(4,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
334	TE 334	TE-IN0655-SGA	SGA U-Tube(5,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
335	TE 335	TE-IN0666-SGA	SGA U-Tube(6,IN) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
336	TE 336	TE-E10861-SGA	SGA U-Tube(1,EX) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
337	TE 337	TE-E10862-SGA	SGA U-Tube(2,EX) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
338	TE 338	TE-E10863-SGA	SGA U-Tube(3,EX) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
339	TE 339	TE-E10864-SGA	SGA U-Tube(4,EX) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
340	TE 340	TE-E10865-SGA	SGA U-Tube(5,EX) Pos.1	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSTF EXP. SB-NL-04 (SH4)		EXP. DATE 88-03-29 PAGE 5			
ICF REV DATE 88-06-23	ROF DATE 88-09-19	LCV XXX	RCV YYY	DOY SHN		RUN DATE 90-12-17			
SEQ NO.	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY	
				LO	HI			ABS.	REL.(%)
341	TE 341	TE-EX0866-SGA	SGA U-Tube(6,EX)	Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
342	TE 342	TE-1N0931-SGA	SGA U-Tube(1,IN)	Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
343	TE 343	TE-1N0932-SGA	SGA U-Tube(2,IN)	Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
344	TE 344	TE-1N0933-SGA	SGA U-Tube(3,IN)	Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
345	TE 345	TE-1N0934-SGA	SGA U-Tube(4,IN)	Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
346	TE 346	TE-1N0935-SGA	SGA U-Tube(5,IN)	Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
347	TE 347	TE-1N0936-SGA	SGA U-Tube(6,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
348	TE 348	TE-1N0991-SGA	SGA U-Tube(1,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
349	TE 349	TE-EX0991-SGA	SGA U-Tube(1,EX)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
350	TE 350	TE-1N0992-SGA	SGA U-Tube(2,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
351	TE 351	TE-EX0992-SGA	SGA U-Tube(2,EX)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
352	TE 352	TE-1N0993-SGA	SGA U-Tube(3,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
353	TE 353	TE-EX0993-SGA	SGA U-Tube(3,EX)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
354	TE 354	TE-1N0994-SGA	SGA U-Tube(4,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
355	TE 355	TE-EX0994-SGA	SGA U-Tube(4,EX)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
356	TE 356	TE-1N0995-SGA	SGA U-Tube(5,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
357	TE 357	TE-EX0995-SGA	SGA U-Tube(5,EX)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
358	TE 358	TE-1N0996-SGA	SGA U-Tube(6,IN)	Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
359	TE 359	TE-EX0996-SGA	SGA U-Tube(6,EX)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
360	TE 360	TE-1N1051-SGA	SGA U-Tube(1,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
361	TE 361	TE-1N1052-SGA	SGA U-Tube(2,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
362	TE 362	TE-1N1053-SGA	SGA U-Tube(3,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
363	TE 363	TE-1N1054-SGA	SGA U-Tube(4,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
364	TE 364	TE-1N1055-SGA	SGA U-Tube(5,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
365	TE 365	TE-1N1056-SGA	SGA U-Tube(6,IN)	Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
366	TE 366	TE-1N1121-SGA	SGA U-Tube(1,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
367	TE 367	TE-EX1121-SGA	SGA U-Tube(1,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
368	TE 368	TE-1N1122-SGA	SGA U-Tube(2,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
369	TE 369	TE-EX1122-SGA	SGA U-Tube(2,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
370	TE 370	TE-1N1123-SGA	SGA U-Tube(3,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
371	TE 371	TE-EX1123-SGA	SGA U-Tube(3,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
372	TE 372	TE-1N1124-SGA	SGA U-Tube(4,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
373	TE 373	TE-EX1124-SGA	SGA U-Tube(4,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
374	TE 374	TE-1N1125-SGA	SGA U-Tube(5,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
375	TE 375	TE-EX1125-SGA	SGA U-Tube(5,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
376	TE 376	TE-1N1126-SGA	SGA U-Tube(6,IN)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
377	TE 377	TE-EX1126-SGA	SGA U-Tube(6,EX)	Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
378	TE 378	TE-1N1251-SGA	SGA U-Tube(1,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
379	TE 379	TE-EX1251-SGA	SGA U-Tube(1,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
380	TE 380	TE-1N1252-SGA	SGA U-Tube(2,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
381	TE 381	TE-EX1252-SGA	SGA U-Tube(2,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
382	TE 382	TE-1N1253-SGA	SGA U-Tube(3,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
383	TE 383	TE-EX1253-SGA	SGA U-Tube(3,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
384	TE 384	TE-1N1254-SGA	SGA U-Tube(4,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
385	TE 385	TE-EX1254-SGA	SGA U-Tube(4,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
386	TE 386	TE-1N1255-SGA	SGA U-Tube(5,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
387	TE 387	TE-EX1255-SGA	SGA U-Tube(5,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
388	TE 388	TE-1N1256-SGA	SGA U-Tube(6,IN)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
389	TE 389	TE-EX1256-SGA	SGA U-Tube(6,EX)	Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
390	TE 390	TE-1N1371-SGA	SGA U-Tube(1,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
391	TE 391	TE-EX1371-SGA	SGA U-Tube(1,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
392	TE 392	TE-1N1372-SGA	SGA U-Tube(2,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
393	TE 393	TE-EX1372-SGA	SGA U-Tube(2,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
394	TE 394	TE-1N1373-SGA	SGA U-Tube(3,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
395	TE 395	TE-EX1373-SGA	SGA U-Tube(3,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
396	TE 396	TE-1N1374-SGA	SGA U-Tube(4,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
397	TE 397	TE-EX1374-SGA	SGA U-Tube(4,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
398	TE 398	TE-1N1375-SGA	SGA U-Tube(5,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
399	TE 399	TE-EX1375-SGA	SGA U-Tube(5,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
400	TE 400	TE-1N1376-SGA	SGA U-Tube(6,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
401	TE 401	TE-EX1376-SGA	SGA U-Tube(6,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
402	TE 402	TE-1N1501-SGA	SGA U-Tube(1,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
403	TE 403	TE-EX1501-SGA	SGA U-Tube(1,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
404	TE 404	TE-1N1502-SGA	SGA U-Tube(2,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
405	TE 405	TE-EX1502-SGA	SGA U-Tube(2,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
406	TE 406	TE-1N1503-SGA	SGA U-Tube(3,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
407	TE 407	TE-EX1503-SGA	SGA U-Tube(3,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
408	TE 408	TE-1N1504-SGA	SGA U-Tube(4,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
409	TE 409	TE-EX1504-SGA	SGA U-Tube(4,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
410	TE 410	TE-1N1505-SGA	SGA U-Tube(5,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
411	TE 411	TE-EX1505-SGA	SGA U-Tube(5,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
412	TE 412	TE-1N1506-SGA	SGA U-Tube(6,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
413	TE 413	TE-EX1506-SGA	SGA U-Tube(6,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
414	TE 414	TE-1N1632-SGA	SGA U-Tube(2,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
415	TE 415	TE-EX1632-SGA	SGA U-Tube(2,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
416	TE 416	TE-1N1633-SGA	SGA U-Tube(3,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
417	TE 417	TE-EX1633-SGA	SGA U-Tube(3,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
418	TE 418	TE-1N1634-SGA	SGA U-Tube(4,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
419	TE 419	TE-EX1634-SGA	SGA U-Tube(4,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
420	TE 420	TE-1N1635-SGA	SGA U-Tube(5,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
421	TE 421	TE-EX1635-SGA	SGA U-Tube(5,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
422	TE 422	TE-1N1701-SGA	SGA U-Tube(1,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
423	TE 423	TE-1N1706-SGA	SGA U-Tube(6,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
424	TE 424	TE-1N1707-SGA	SGA U-Tube(2,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
425	TE 425	TE-1N1708-SGA	SGA U-Tube(5,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (DDR)				LSTF EXP. SB-HC-04 (SH4)	EXP. DATE 88-03-29 PAGE 6			
LCF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DQV SH4	RUM DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LO	UNIT HI	UNCERTAINTY ABS. REL.(%)	
426	TE 425	TE-IN1863-SGA	SGA U-Tube(3,[N]) Pos.11	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
427	TE 427	TE-IN1864-SGA	SGA U-Tube(4,[N]) Pos.11	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
428	TE 428	TE-2230-SGA	SGA Steam Dome	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
429	TE 429	TE-086C-SGA	SGA Boiling Section Pos.1	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
430	TE 430	TE-099L-SGA	SGA Boiling Section Pos.3	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
431	TE 431	TE-112C-SGA	SGA Boiling Section Pos.5	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
432	TE 432	TE-125C-SGA	SGA Boiling Section Pos.6	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
433	TE 433	TE-137C-SGA	SGA Boiling Section Pos.7	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
434	TE 434	TE-150C-SGA	SGA Boiling Section Pos.8	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
435	TE 435	TE-163C-SGA	SGA Boiling Section Pos.9	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
436	TE 436	TE-178C-SGA	SGA Boiling Section Pos.10	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
437	TE 437	TE-192F-SGA	SGA Boiling Section	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
438	TE 438	TE-208F-SGA	SGA Separator	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
439	TE 439	TE-192C-SGA	SGA Downcomer	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
440	TE 440	TE-208C-SGA	SGA Downcomer	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
441	TE 441	TE-223C-SGA	SGA Steam Dome	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
442	TE 442	TE-245C-SGA	SGA Steam Dome	GOOD	2.700+2	7.200+2	K	3.108+0 8.300-1
443	TE 443	TE-IN0641-SGB	SGB Inlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
444	TE 444	TE-IN0642-SGB	SGB Inlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
445	TE 445	TE-IN0643-SGB	SGB Inlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
446	TE 446	TE-EX0641-SGB	SGB Outlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
447	TE 447	TE-EX0642-SGB	SGB Outlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
448	TE 448	TE-EX0643-SGB	SGB Outlet Plenum	GOOD	2.700+2	7.200+2	K	3.735+0 8.300-1
449	TE 449	TE-IN0861-SGB	SGB U-Tube(1,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
450	TE 450	TE-IN0862-SGB	SGB U-Tube(2,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
451	TE 451	TE-IN0863-SGB	SGB U-Tube(3,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
452	TE 452	TE-IN0864-SGB	SGB U-Tube(4,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
453	TE 453	TE-IN0865-SGB	SGB U-Tube(5,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
454	TE 454	TE-IN0866-SGB	SGB U-Tube(6,[N]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
455	TE 455	TE-EI0861-SGB	SGB U-Tube(1,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
456	TE 456	TE-EI0862-SGB	SGB U-Tube(2,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
457	TE 457	TE-EI0863-SGB	SGB U-Tube(3,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
458	TE 458	TE-EI0864-SGB	SGB U-Tube(4,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
459	TE 459	TE-EI0865-SGB	SGB U-Tube(5,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
460	TE 460	TE-EI0866-SGB	SGB U-Tube(6,[E]) Pos.1	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
461	TE 461	TE-IN0931-SGB	SGB U-Tube(1,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
462	TE 462	TE-IN0932-SGB	SGB U-Tube(2,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
463	TE 463	TE-IN0933-SGB	SGB U-Tube(3,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
464	TE 464	TE-IN0934-SGB	SGB U-Tube(4,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
465	TE 465	TE-IN0935-SGB	SGB U-Tube(5,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
466	TE 466	TE-IN0936-SGB	SGB U-Tube(6,[N]) Pos.2	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
467	TE 467	TE-IN0991-SGB	SGB U-Tube(1,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
468	TE 468	TE-EI0991-SGB	SGB U-Tube(1,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
469	TE 469	TE-EI0992-SGB	SGB U-Tube(2,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
470	TE 470	TE-EI0992-SGB	SGB U-Tube(2,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
471	TE 471	TE-IN0993-SGB	SGB U-Tube(3,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
472	TE 472	TE-EI0993-SGB	SGB U-Tube(3,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
473	TE 473	TE-IN0994-SGB	SGB U-Tube(4,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
474	TE 474	TE-EI0994-SGB	SGB U-Tube(4,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
475	TE 475	TE-EI0995-SGB	SGB U-Tube(5,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
476	TE 476	TE-EI0995-SGB	SGB U-Tube(5,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
477	TE 477	TE-EI0996-SGB	SGB U-Tube(6,[N]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
478	TE 478	TE-EI0996-SGB	SGB U-Tube(6,[E]) Pos.3	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
479	TE 479	TE-EI1051-SGB	SGB U-Tube(1,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
480	TE 480	TE-EI1052-SGB	SGB U-Tube(2,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
481	TE 481	TE-EI1053-SGB	SGB U-Tube(3,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
482	TE 482	TE-EI1054-SGB	SGB U-Tube(4,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
483	TE 483	TE-EI1055-SGB	SGB U-Tube(5,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
484	TE 484	TE-EI1056-SGB	SGB U-Tube(6,[N]) Pos.4	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
485	TE 485	TE-EI1121-SGB	SGB U-Tube(1,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
486	TE 486	TE-EI1121-SGB	SGB U-Tube(1,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
487	TE 487	TE-EI1122-SGB	SGB U-Tube(2,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
488	TE 488	TE-EI1122-SGB	SGB U-Tube(2,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
489	TE 489	TE-EI1123-SGB	SGB U-Tube(3,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
490	TE 490	TE-EI1123-SGB	SGB U-Tube(3,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
491	TE 491	TE-EI1124-SGB	SGB U-Tube(4,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
492	TE 492	TE-EI1124-SGB	SGB U-Tube(4,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
493	TE 493	TE-EI1125-SGB	SGB U-Tube(5,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
494	TE 494	TE-EI1125-SGB	SGB U-Tube(5,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
495	TE 495	TE-EI1126-SGB	SGB U-Tube(6,[N]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
496	TE 496	TE-EI1126-SGB	SGB U-Tube(6,[E]) Pos.5	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
497	TE 497	TE-EI1251-SGB	SGB U-Tube(1,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
498	TE 498	TE-EI1251-SGB	SGB U-Tube(1,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
499	TE 499	TE-EI1252-SGB	SGB U-Tube(2,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
500	TE 500	TE-EI1252-SGB	SGB U-Tube(2,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
501	TE 501	TE-IN1253-SGB	SGB U-Tube(3,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
502	TE 502	TE-EI1253-SGB	SGB U-Tube(3,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
503	TE 503	TE-IN1254-SGB	SGB U-Tube(4,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
504	TE 504	TE-EI1254-SGB	SGB U-Tube(4,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
505	TE 505	TE-IN1255-SGB	SGB U-Tube(5,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
506	TE 506	TE-EI1275-SGB	SGB U-Tube(5,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
507	TE 507	TE-IN1276-SGB	SGB U-Tube(6,[N]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
508	TE 508	TE-EI1276-SGB	SGB U-Tube(6,[E]) Pos.6	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
509	TE 509	TE-IN1277-SGB	SGB U-Tube(1,[N]) Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
510	TE 510	TE-EI1277-SGB	SGB U-Tube(1,[E]) Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSIF EXP. SB-HL-04 (\$H4)		EXP. DATE 88-03-29 PAGE 7			
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DQR SH4	RUN DATE 90-12-17				
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LIMITS	UNIT	UNCERTAINTY		
					LO	HI	ABS.	REL.(%)	
511	TE 511	TE-EX1372-SGB	SGB U-Tube(2,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
512	TE 512	TE-EX1372-SGB	SGB U-Tube(2,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
513	TE 513	TE-IN1373-SGB	SGB U-Tube(3,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
514	TE 514	TE-EX1373-SGB	SGB U-Tube(3,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
515	TE 515	TE-IN1374-SGB	SGB U-Tube(4,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
516	TE 516	TE-EX1374-SGB	SGB U-Tube(4,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
517	TE 517	TE-IN1375-SGB	SGB U-Tube(5,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
518	TE 518	TE-EX1375-SGB	SGB U-Tube(5,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
519	TE 519	TE-IN1376-SGB	SGB U-Tube(6,IN)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
520	TE 520	TE-EX1376-SGB	SGB U-Tube(6,EX)	Pos.7	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
521	TE 521	TE-IN1501-SGB	SGB U-Tube(1,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
522	TE 522	TE-EX1501-SGB	SGB U-Tube(1,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
523	TE 523	TE-IN1502-SGB	SGB U-Tube(2,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
524	TE 524	TE-EX1502-SGB	SGB U-Tube(2,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
525	TE 525	TE-IN1503-SGB	SGB U-Tube(3,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
526	TE 526	TE-EX1503-SGB	SGB U-Tube(3,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
527	TE 527	TE-IN1504-SGB	SGB U-Tube(4,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
528	TE 528	TE-EX1504-SGB	SGB U-Tube(4,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
529	TE 529	TE-IN1505-SGB	SGB U-Tube(5,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
530	TE 530	TE-EX1505-SGB	SGB U-Tube(5,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
531	TE 531	TE-IN1506-SGB	SGB U-Tube(6,IN)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
532	TE 532	TE-EX1506-SGB	SGB U-Tube(6,EX)	Pos.8	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
533	TE 533	TE-IN1632-SGB	SGB U-Tube(2,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
534	TE 534	TE-EX1632-SGB	SGB U-Tube(2,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
535	TE 535	TE-IN1633-SGB	SGB U-Tube(3,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
536	TE 536	TE-EX1633-SGB	SGB U-Tube(3,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
537	TE 537	TE-IN1634-SGB	SGB U-Tube(4,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
538	TE 538	TE-EX1634-SGB	SGB U-Tube(4,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
539	TE 539	TE-IN1635-SGB	SGB U-Tube(5,IN)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
540	TE 540	TE-EX1635-SGB	SGB U-Tube(5,EX)	Pos.9	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
541	TE 541	TE-IN1701-SGB	SGB U-Tube(1,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
542	TE 542	TE-EX1701-SGB	SGB U-Tube(6,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
543	TE 543	TE-IN1782-SGB	SGB U-Tube(2,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
544	TE 544	TE-EX1782-SGB	SGB U-Tube(5,IN)	Pos.10	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
545	TE 545	TE-IN1863-SGB	SGB U-Tube(3,IN)	Pos.11	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
546	TE 546	TE-IN1864-SGB	SGB U-Tube(4,IN)	Pos.11	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
547	TE 547	TE-EX223D-SGB	SGB Steam Dome			2.700+2	6.700+2	K	3.108+0 7.770-1
548	TE 548	TE-086C-SGB	SGB Boiling Section	Pos.1		2.700+2	6.700+2	K	3.108+0 7.770-1
549	TE 549	TE-099C-SGB	SGB Boiling Section	Pos.3		2.700+2	6.700+2	K	3.108+0 7.770-1
550	TE 550	TE-112C-SGB	SGB Boiling Section	Pos.5		2.700+2	6.700+2	K	3.108+0 7.770-1
551	TE 551	TE-125C-SGB	SGB Boiling Section	Pos.6		2.700+2	6.700+2	K	3.108+0 7.770-1
552	TE 552	TE-137C-SGB	SGB Boiling Section	Pos.7		2.700+2	6.700+2	K	3.108+0 7.770-1
553	TE 553	TE-150C-SGB	SGB Boiling Section	Pos.8		2.700+2	6.700+2	K	3.108+0 7.770-1
554	TE 554	TE-163C-SGB	SGB Boiling Section	Pos.9		2.700+2	6.700+2	K	3.108+0 7.770-1
555	TE 555	TE-178C-SGB	SGB Boiling Section	Pos.10		2.700+2	6.700+2	K	3.108+0 7.770-1
556	TE 556	TE-192F-SGB	SGB Boiling Section			2.700+2	6.700+2	K	3.108+0 7.770-1
557	TE 557	TE-208F-SGB	SGB Separator			2.700+2	6.700+2	K	3.108+0 7.770-1
558	TE 558	TE-192C-SGB	SGB Downcomer			2.700+2	6.700+2	K	3.108+0 7.770-1
559	TE 559	TE-208C-SGB	SGB Downcomer			2.700+2	6.700+2	K	3.108+0 7.770-1
560	TE 560	TE-223C-SGB	SGB Steam Dome			2.700+2	6.700+2	K	3.108+0 7.770-1
561	TE 561	TE-245C-SGB	SGB Steam Dome			2.700+2	6.700+2	K	3.108+0 7.770-1
562	TE 562	TE-211C-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
563	TE 563	TE-194C-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
564	TE 564	TE-177C-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
565	TE 565	TE-980				0.0	5.000+1	K	2.010-1 4.020-1
566	TE 566	TE-981				0.0	5.000+1	K	2.010-1 4.020-1
567	TE 567	TE-982				0.0	5.000+1	K	2.010-1 4.020-1
568	TE 568	TE-983				0.0	5.000+1	K	2.010-1 4.020-1
569	TE 569	TE-984				0.0	5.000+1	K	2.010-1 4.020-1
570	TE 570	TE-985				0.0	5.000+1	K	2.010-1 4.020-1
571	TE 571	TE-986				0.0	5.000+1	K	2.010-1 4.020-1
572	TE 572	TE-990				0.0	5.000+1	K	2.010-1 4.020-1
573	TE 573	TE-991				0.0	5.000+1	K	2.010-1 4.020-1
574	TE 574	TE-992				0.0	5.000+1	K	2.010-1 4.020-1
575	TE 575	TE-993				0.0	5.000+1	K	2.010-1 4.020-1
576	TE 576	TE-994				0.0	5.000+1	K	2.010-1 4.020-1
577	TE 577	TE-995				0.0	5.000+1	K	2.010-1 4.020-1
578	TE 578	TE-996				0.0	5.000+1	K	2.010-1 4.020-1
579	TE 579	TE-997				0.0	5.000+1	K	2.010-1 4.020-1
580	TE 580	TE-177D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
581	TE 581	TE-181D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
582	TE 582	TE-185D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
583	TE 583	TE-189D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
584	TE 584	TE-192D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
585	TE 585	TE-211D-PR	PR Fluid			2.700+2	7.200+2	K	3.307+0 7.350-1
586	TE 586	TE011A-HLA	HLA Spool Piece Top			2.700+2	7.200+2	K	3.307+0 7.350-1
587	TE 587	TE011B-HLA	HLA Spool Piece Side			2.700+2	7.200+2	K	3.307+0 7.350-1
588	TE 588	TE011C-HLA	HLA Spool Piece Bottom			2.700+2	7.200+2	K	3.307+0 7.350-1
589	TE 589	TE012C-HLA	HLA Spool Piece Top			2.700+2	7.200+2	K	3.307+0 7.350-1
590	TE 590	TE012D-HLA	HLA Spool Piece Bottom			2.700+2	7.200+2	K	3.307+0 7.350-1
591	TE 591	TE011A-HLA	HLA Spool Piece East			2.700+2	7.200+2	K	3.307+0 7.350-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSIF EXP. SB-HL-04 (SH4)		EXP. DATE 88-03-29 PAGE 8				
ICF REV DATE 88-05-23		RDF DATE 88-09-19		LCV XXX	RCV YYY	DQR SH4	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY			SPAN LIMITS	UNIT	UNCERTAINTY	
				L0	H1		ABS.	REL.(%)		
612	TE 612	TE051B-LSA	LSA Spool Piece South	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
613	TE 613	TE051C-LSA	LSA Spool Piece West	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
614	TE 614	TE051D-LSA	LSA Spool Piece North	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
615	TE 615	TE052-LSA	LSA Spool Piece	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
616	TE 616	TE071A-CLA	CLA Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
617	TE 617	TE071B-CLA	CLA Spool Piece Side	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
618	TE 618	TE071C-CLA	CLA Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
619	TE 619	TE072C-CLA	CLA Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
620	TE 620	TE072D-CLA	CLA Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
621	TE 621	TE151A-HLB	HLB Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
622	TE 622	TE151B-HLB	HLB Spool Piece Side	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
623	TE 623	TE151C-HLB	HLB Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
624	TE 624	TE152C-HLB	HLB Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
625	TE 625	TE152D-HLB	HLB Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
626	TE 626	TE191A-LSB	LSB Spool Piece West	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
627	TE 627	TE191B-LSB	LSB Spool Piece North	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
628	TE 628	TE191C-LSB	LSB Spool Piece East	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
629	TE 629	TE191D-LSB	LSB Spool Piece South	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
630	TE 630	TE192-LSB	LSB Spool Piece	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
631	TE 631	TE211A-CLB	CLB Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
632	TE 632	TE211B-CLB	CLB Spool Piece Side	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
633	TE 633	TE211C-CLB	CLB Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
634	TE 634	TE212C-CLB	CLB Spool Piece Top	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
635	TE 635	TE212D-CLB	CLB Spool Piece Bottom	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
636	TE 636	TE291C-PR	PR Relief Valve Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
637	TE 637	TE291D-PR	PR Relief Valve Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
638	TE 638	TE301C-PR	PR Safety Valve Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
639	TE 639	TE301D-PR	PR Safety Valve Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
640	TE 640	TE311C-PR	PV-PR Vent Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
641	TE 641	TE311D-PR	PV-PR Vent Line	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
644	TE 644	TE571C-BU	BU No.1 S.P		UNUSED		2.700+2	7.200+2	K	3.307+0 7.350-1
645	TE 645	TE571D-BU	BU No.1 S.P	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
651	TE 651	TE591C-BU	BU No.2 S.P		UNUSED		2.700+2	7.200+2	K	3.307+0 7.350-1
652	TE 652	TE591D-BU	BU No.2 S.P		UNUSED		2.700+2	7.200+2	K	3.307+0 7.350-1
662	TE 662	TE-K-006-DC	PV Downcomer DTT North	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
663	TE 663	TE-S-006-DC	PV Downcomer DTT South	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
664	TE 664	TE-E-006-DC	PV Downcomer DTT East	GOOD			2.700+2	7.200+2	K	3.307+0 7.350-1
665	TE 665	TE-V-006-DC	PV Downcomer DTT West	GOOD			2.700+2	7.200+2	K	3.108+0 7.770-1
666	TE 666	TE451C-SGA	SGA Safety Valve S.P	GOOD			2.700+2	6.700+2	K	3.108+0 7.770-1
667	TE 667	TE451D-SGA	SGA Safety Valve S.P	GOOD			2.700+2	6.700+2	K	3.108+0 7.770-1
751	DT 1	DTE020A-MLA	MLA Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
752	DT 2	DTE020B-MLA	MLA Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
753	DT 3	DTE010A-MLA	MLA Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
754	DT 4	DTE010B-MLA	MLA Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
755	DT 5	DTE050A-LSA	LSA Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
756	DT 6	DTE050B-LSA	LSA Pipe Wall Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
757	DT 7	DTE060A-PCA	PCA Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
758	DT 8	DTE070A-CLA	CLA Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
759	DT 9	DTE070B-CLA	CLA Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
760	DT 10	DTE080A-CLA	CLA Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
761	DT 11	DTE080B-CLA	CLA Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
762	DT 12	DTE100-MLA	MLA-MLA	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
763	DT 13	DTE160A-HLB	HLB Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
764	DT 14	DTE160B-HLB	HLB Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
765	DT 15	DTE170A-HLB	HLB Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
766	DT 16	DTE170B-HLB	HLB Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
767	DT 17	DTE190A-LSB	LSB Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
768	DT 18	DTE190B-LSB	LSB Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
769	DT 19	DTE200A-PCB	PCB Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
770	DT 20	DTE210A-CLB	CLB Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
771	DT 21	DTE210B-CLB	CLB Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
772	DT 22	DTE220A-CLB	CLB Pipe Wall I/O	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
773	DT 23	DTE220B-CLB	CLB Pipe Wall to Fluid	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
774	DT 24	DTE240-MLB	HLB-CLB	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
775	DT 25	DTE270A-PR	PR Spray Line	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
776	DT 26	DTE280A-PR	PR Surge Line	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
777	DT 27	DTE-E-015A-PV	PV Wall I/O-E at L. Plenum	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
778	DT 28	DTE-W-015A-PV	PV Wall I/O-W at L. Plenum	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
779	DT 29	DTE-N000A-PV	PV Wall I/O-N at DC Bottom	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
780	DT 30	DTE-5000A-PV	PV Wall I/O-S at DC Bottom	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
781	DT 31	DTE-E000A-PV	PV Wall I/O-E at DC Bottom	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
782	DT 32	DTE-W000A-PV	PV Wall I/O-W at DC Bottom	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
783	DT 33	DTE-N018A-PV	PV Wall I/O-N at DC Middle	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
784	DT 34	DTE-S018A-PV	PV Wall I/O-S at DC Middle	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
785	DT 35	DTE-E018A-PV	PV Wall I/O-E at DC Middle	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
786	DT 36	DTE-W018A-PV	PV Wall I/O-W at DC Middle	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
787	DT 37	DTE-N036A-PV	PV Wall I/O-N at Upper DC	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
788	DT 38	DTE-S036A-PV	PV Wall I/O-S at Upper DC	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
789	DT 39	DTE-E036A-PV	PV Wall I/O-E at Upper DC	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
790	DT 40	DTE-W036A-PV	PV Wall I/O-W at Upper DC	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
791	DT 41	DTE-W060A-PV	PV Wall I/O-N at DC Top	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
792	DT 42	DTE-S060A-PV	PV Wall I/O-S at DC Top	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
793	DT 43	DTE-E060A-PV	PV Wall I/O-E at DC Top	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
794	DT 44	DTE-W060A-PV	PV Wall I/O-W at DC Top	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0
795	DT 45	DTE-E060A-PV	PV Wall I/O-E at DC Head	GOOD			-1.500+2	1.500+2	K	6.240+0 2.080+0

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DDR)				LSTF EXP. SB-HL-04 (SH4)		EXP. DATE 88-03-29 PAGE 9		
ICF REV	DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DGV SH4	RUN DATE 90-12-17		
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY
				LO	HI	ABS.	REL.(%)	
796	DT 46	DTE-W080A-PV	PV Wall I/O-W at DC Head	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
797	DT 47	DTE-W0005-PV	PV/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
798	DT 48	DTE-S0008-PV	PV/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
799	DT 49	DTE-E0008-PV	PV/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
800	DT 50	DTE-W0008-PV	PV/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
801	DT 51	DTE-W0180-PV	PV/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
802	DT 52	DTE-S0180-PV	PV/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
803	DT 53	DTE-E0180-PV	PV/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
804	DT 54	DTE-W0180-PV	PV/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
805	DT 55	DTE-K0368-PV	PV/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
806	DT 56	DTE-S0368-PV	PV/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
807	DT 57	DTE-E0368-PV	PV/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
808	DT 58	DTE-W0368-PV	PV/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
809	DT 59	DTE-W0608-PV	PV/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
810	DT 60	DTE-S0608-PV	PV/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
811	DT 61	DTE-E0608-PV	PV/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
812	DT 62	DTE-W0608-PV	PV/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
813	DT 63	DTE-N00DC-PV	CB/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
814	DT 64	DTE-S00DC-PV	CB/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
815	DT 65	DTE-E00DC-PV	CB/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
816	DT 66	DTE-W00DC-PV	CB/DC Fluid at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
817	DT 67	DTE-N018C-PV	CB/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
818	DT 68	DTE-S018C-PV	CB/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
819	DT 69	DTE-E018C-PV	CB/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
820	DT 70	DTE-W018C-PV	CB/DC Fluid at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
821	DT 71	DTE-W036C-PV	CB/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
822	DT 72	DTE-S036C-PV	CB/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
823	DT 73	DTE-E036C-PV	CB/DC Fluid at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
824	DT 74	DTE-W041C-PV	CB/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
825	DT 75	DTE-S060C-PV	CB/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
826	DT 76	DTE-S060C-PV	CB/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
827	DT 77	DTE-E060C-PV	CB/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
828	DT 78	DTE-W050C-PV	CB/DC Fluid at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
829	DT 79	DTE-N00DE-PV	CB Wall I/O at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
830	DT 80	DTE-S00DE-PV	CB Wall I/O at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
831	DT 81	DTE-E00DE-PV	CB Wall I/O at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
832	DT 82	DTE-W00DE-PV	CB Wall I/O at DC Bottom	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
833	DT 83	DTE-N01DE-PV	CB Wall I/O at Lower DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
834	DT 84	DTE-S01DE-PV	CB Wall I/O at Lower DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
835	DT 85	DTE-E01DE-PV	CB Wall I/O at Lower DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
836	DT 86	DTE-W01DE-PV	CB Wall I/O at Lower DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
837	DT 87	DTE-N018E-PV	CB Wall I/O at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
838	DT 88	DTE-S018E-PV	CB Wall I/O at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
839	DT 89	DTE-E018E-PV	CB Wall I/O at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
840	DT 90	DTE-W018E-PV	CB Wall I/O at DC Middle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
841	DT 91	DTE-N026E-PV	CB Wall I/O at DC Center	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
842	DT 92	DTE-S026E-PV	CB Wall I/O at DC Center	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
843	DT 93	DTE-E026E-PV	CB Wall I/O at DC Center	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
844	DT 94	DTE-W026E-PV	CB Wall I/O at DC Center	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
845	DT 95	DTE-M036E-PV	CB Wall I/O at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
846	DT 96	DTE-S036E-PV	CB Wall I/O at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
847	DT 97	DTE-E036E-PV	CB Wall I/O at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
848	DT 98	DTE-W036E-PV	CB Wall I/O at Upper DC	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
849	DT 99	DTE-W049E-PV	CB Wall I/O below Nozzle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
850	DT 100	DTE-S049E-PV	CB Wall I/O below Nozzle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
851	DT 101	DTE-E049E-PV	CB Wall I/O below Nozzle	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
852	DT 102	DTE-W049E-PV	CB Wall I/O at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
853	DT 103	DTE-N060E-PV	CB Wall I/O at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
854	DT 104	DTE-S060E-PV	CB Wall I/O at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
855	DT 105	DTE-E060E-PV	CB Wall I/O at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
856	DT 106	DTE-W060E-PV	CB Wall I/O at DC Top	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
857	DT 107	DTE-O40-B09-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
858	DT 108	DTE-O40-B11-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
859	DT 109	DTE-O40-B01-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
860	DT 110	DTE-O40-B03-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
861	DT 111	DTE-O40-B05-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
862	DT 112	DTE-O40-B07-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
863	DT 113	DTE-O40-B21-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
864	DT 114	DTE-O40-B23-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
865	DT 115	DTE-O40-B02-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
866	DT 116	DTE-O40-B15-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
867	DT 117	DTE-O40-B06-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
868	DT 118	DTE-O40-B14-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
869	DT 119	DTE-O40-B18-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
870	DT 120	DTE-O40-B19-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
871	DT 121	DTE-O40-B10-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
872	DT 122	DTE-O40-B12-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
873	DT 123	DTE-O40-B04-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
874	DT 124	DTE-O40-B08-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
875	DT 125	DTE-O40-B22-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
876	DT 126	DTE-O40-B24-UCP	In/Out Fluid across UCP	GOOD		-1.500+2	1.500+2	K 6.240+0 2.080+0
877	DT 127	DTE-O40-B02-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
878	DT 128	DTE-O40-B03-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
879	DT 129	DTE-O40-B06-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
880	DT 130	DTE-O40-B07-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (ADR)				LSTF EXP. SD-HL-04 (SH4)	EXP. DATE 88-03-29 PAGE 10			
ICF REV DATE	88-06-23	RDF DATE	88-09-19	LCV XXX	REV YYY	DQV SH4	RUN DATE	90-12-17
SEQ NO	FUNC 18.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY
				LO	HI			ABS. REL.(%)
881	DT 131	DTE-000-B09-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
882	DT 132	DTE-000-B11-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
883	DT 133	DTE-000-B14-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
884	DT 134	DTE-000-B16-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
885	DT 135	DTE-000-B18-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
886	DT 136	DTE-000-B20-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
887	DT 137	DTE-000-B21-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
888	DT 138	DTE-000-B23-LCP	In/Out Fluid across LCP	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
889	DT 139	DTE-0864-SGA	SGA Wall I/O Pos.1	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
890	DT 140	DTE-1374-SGA	SGA Wall I/O Pos.7	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
891	DT 141	DTE-178A-SGA	SGA Wall I/O Pos.10	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
892	DT 142	DTE-223A-SGA	SGA Steam Dome Wall I/O	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
893	DT 143	DTE-1N0461-SGA	SGA U-Tube(1,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
894	DT 144	DTE-620861-SGA	SGA U-Tube(1,EX) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
895	DT 145	DTE-1N0862-SGA	SGA U-Tube(2,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
896	DT 146	DTE-EX0862-SGA	SGA U-Tube(2,EX) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
897	DT 147	DTE-1N0863-SGA	SGA U-Tube(3,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
898	DT 148	DTE-EX0863-SGA	SGA U-Tube(3,EX) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
899	DT 149	DTE-1N0991-SGA	SGA U-Tube(1,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
900	DT 150	DTE-EX0991-SGA	SGA U-Tube(1,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
901	DT 151	DTE-1N0992-SGA	SGA U-Tube(2,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
902	DT 152	DTE-EX0992-SGA	SGA U-Tube(2,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
903	DT 153	DTE-1N0993-SGA	SGA U-Tube(3,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
904	DT 154	DTE-EX0993-SGA	SGA U-Tube(3,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
905	DT 155	DTE-1N1121-SGA	SGA U-Tube(1,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
906	DT 156	DTE-EX1121-SGA	SGA U-Tube(1,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
907	DT 157	DTE-1N1122-SGA	SGA U-Tube(2,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
908	DT 158	DTE-EX1122-SGA	SGA U-Tube(2,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
909	DT 159	DTE-1X1123-SGA	SGA U-Tube(3,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
910	DT 160	DTE-EX1123-SGA	SGA U-Tube(3,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
911	DT 161	DTE-1M1371-SGA	SGA U-Tube(1,IN) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
912	DT 162	DTE-EX1371-SGA	SGA U-Tube(1,EX) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
913	DT 163	DTE-1N1372-SGA	SGA U-Tube(2,IN) Pos.7	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
914	DT 164	DTE-EX1372-SGA	SGA U-Tube(2,EX) Pos.7	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
915	DT 165	DTE-1M1373-SGA	SGA U-Tube(3,IN) Pos.7	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
916	DT 166	DTE-EX1373-SGA	SGA U-Tube(3,EX) Pos.7	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
917	DT 167	DTE-1M1632-SGA	SGA U-Tube(2,IN) Pos.9	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
918	DT 168	DTE-EX1632-SGA	SGA U-Tube(2,EX) Pos.9	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
919	DT 169	DTE-1M1633-SGA	SGA U-Tube(3,IN) Pos.9	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
920	DT 170	DTE-EX1633-SGA	SGA U-Tube(3,EX) Pos.9	GOOD		-1.000+2	1.000+2	X 1.660+0 8.300-1
921	DT 171	DTE-1M1701-SGA	SGA U-Tube(1,IN) Pos.10	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
922	DT 172	DTE-1M1782-SGA	SGA U-Tube(2,IN) Pos.10	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
923	DT 173	DTE-1M1863-SGA	SGA U-Tube(3,IN) Pos.11	GOOD		-1.000+2	1.000+2	K 1.660+0 2.080+0
924	DT 174	DTE-0864-SGA	SGB Wall I/O Pos.1	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
925	DT 175	DTE-1Z7A-SGA	SGB Wall I/O Pos.7	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
926	DT 176	DTE-178A-SGB	SGB Wall I/O Pos.10	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
927	DT 177	DTE-223A-SGB	SGB Steam Dome Wall I/O	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
928	DT 178	DTE-1N0861-SGB	SGB U-Tube(1,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
929	DT 179	DTE-EX0861-SGB	SGB U-Tube(1,EX) Pos.1	GOOD		-4.000+1	4.000+1	K 1.664+0 2.080+0
930	DT 180	DTE-1N0862-SGB	SGB U-Tube(2,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
931	DT 181	DTE-EX0862-SGB	SGB U-Tube(2,EX) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
932	DT 182	DTE-1N0863-SGB	SGB U-Tube(3,IN) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
933	DT 183	DTE-EX0863-SGB	SGB U-Tube(3,EX) Pos.1	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
934	DT 184	DTE-1N0991-SGB	SGB U-Tube(1,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
935	DT 185	DTE-EX0991-SGB	SGB U-Tube(1,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
936	DT 186	DTE-1N0992-SGB	SGB U-Tube(2,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
937	DT 187	DTE-EX0992-SGB	SGB U-Tube(2,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
938	DT 188	DTE-1N0993-SGB	SGB U-Tube(3,IN) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
939	DT 189	DTE-EX0993-SGB	SGB U-Tube(3,EX) Pos.3	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
940	DT 190	DTE-1N1121-SGB	SGB U-Tube(1,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
941	DT 191	DTE-EX1121-SGB	SGB U-Tube(1,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
942	DT 192	DTE-1N1122-SGB	SGB U-Tube(2,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
943	DT 193	DTE-EX1122-SGB	SGB U-Tube(2,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
944	DT 194	DTE-1N1123-SGB	SGB U-Tube(3,IN) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
945	DT 195	DTE-EX1123-SGB	SGB U-Tube(3,EX) Pos.5	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
946	DT 196	DTE-1M1371-SGB	SGB U-Tube(1,IN) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
947	DT 197	DTE-EX1371-SGB	SGB U-Tube(1,EX) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
948	DT 198	DTE-1M1372-SGB	SGB U-Tube(2,IN) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
949	DT 199	DTE-EX1372-SGB	SGB U-Tube(2,EX) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
950	DT 200	DTE-1M1373-SGB	SGB U-Tube(3,IN) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
951	DT 201	DTE-EX1373-SGB	SGB U-Tube(3,EX) Pos.7	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
952	DT 202	DTE-1M1632-SGB	SGB U-Tube(2,IN) Pos.9	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
953	DT 203	DTE-EX1632-SGB	SGB U-Tube(2,EX) Pos.9	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
954	DT 204	DTE-1M1633-SGB	SGB U-Tube(3,IN) Pos.9	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
955	DT 205	DTE-EX1633-SGB	SGB U-Tube(3,EX) Pos.9	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
956	DT 206	DTE-1K1701-SGB	SGB U-Tube(1,IN) Pos.10	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
957	DT 207	DTE-1N1782-SGB	SGB U-Tube(2,IN) Pos.10	GOOD		-1.000+2	1.000+2	K 1.660+0 8.300-1
958	DT 208	DTE-1M1863-SGB	SGB U-Tube(3,IN) Pos.11	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1051	TW 1	TWE020B-HLA	HLa Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1052	TW 2	TWE030B-HLA	HLa Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1053	TW 3	TWE050B-LSA	LSA Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1054	TW 4	TWE060B-PCA	PCA Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1055	TW 5	TWE070B-CLA	CLA Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1056	TW 6	TWE080B-CL4	CL4 Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1
1057	TW 7	TWE160B-HLB	HLB Pipe Inner Wall	GOOD		2.700+2	7.200+2	K 3.307+0 7.350-1

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (DQR)				LSTF EXP. SB-HL-04 (S/H)	EXP. DATE 88-03-29 PAGE 11			
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XIX	RCV YYY	DQV SH4	RUN DATE 90-12-17			
SEQ NO	FUNC ID	TAG NAME	LOCATION	DATA QUALITY	SPAN LO	LIMITS HI	UNIT	UNCERTAINTY ABS. REL.(%)
1058	TW 8	TWE108-HLB	HLB Pipe Inner Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1059	TW 9	TWE108-LSB	LSB Pipe Inner Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1060	TW 10	TWE208-PCB	PCB Inner Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1061	TW 11	TWE2108-CLB	CLB Pipe Inner Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1062	TW 12	TWE2208-CLB	CLB Pipe Inner Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1063	TW 13	TWE2808-PR	PR Surge Line	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1064	TW 14	TWE431A-SGA	SGA Downcomer A Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1065	TW 15	TWE432A-SGA	SGA Downcomer B Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1066	TW 16	TWE433A-SGA	SGA Downcomer C Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1067	TW 17	TWE434A-SGA	SGA Downcomer D Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1068	TW 18	TWE471A-SGB	SGB Downcomer A Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1069	TW 19	TWE472A-SGB	SGB Downcomer B Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1070	TW 20	TWE473A-SGB	SGB Downcomer C Wall	GOOD	2.700+2	6.700+2	K	3.108+0 7.770-1
1071	TW 21	TWE474A-SGB	SGB Downcomer D Wall	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1072	TW 22	TVE-E018-PV	PV Inner Wall EL.-1.5m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1073	TW 23	TVE-W-018-PV	PV Inner Wall EL.-1.5m,W	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1074	TW 24	TVE-W008-PV	PV Inner Wall EL.0.0m,N	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1075	TW 25	TVE-S008-PV	PV Inner Wall EL.0.0m,S	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1076	TW 26	TVE-E008-PV	PV Inner Wall EL.0.0m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1077	TW 27	TVE-W008-PV	PV Inner Wall EL.0.0m,W	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1078	TW 28	TWE-N0188-PV	PV Inner Wall EL.1.8m,N	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1079	TW 29	TWE-S0188-PV	PV Inner Wall EL.1.8m,S	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1080	TW 30	TWE-E0188-PV	PV Inner Wall EL.1.8m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1081	TW 31	TWE-W0188-PV	PV Inner Wall EL.1.8m,W	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1082	TW 32	TWE-N0368-PV	PV Inner Wall EL.1.8m,N	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1083	TW 33	TWE-S0368-PV	PV Inner Wall EL.1.8m,S	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1084	TW 34	TWE-E0368-PV	PV Inner Wall EL.1.8m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1085	TW 35	TWE-W0368-PV	PV Inner Wall EL.1.8m,W	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1086	TW 36	TWE-N0608-PV	PV Inner Wall EL.6.0m,N	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1087	TW 37	TWE-S0608-PV	PV Inner Wall EL.6.0m,S	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1088	TW 38	TWE-E0608-PV	PV Inner Wall EL.6.0m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1089	TW 39	TWE-W0608-PV	PV Inner Wall EL.6.0m,W	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1090	TW 40	TWE-E0808-PV	PV Inner Wall EL.8.0m,E	GOOD	2.700+2	7.200+2	K	3.307+0 7.350-1
1091	TW 41	TWE-W0808-PV	PV Inner Wall EL.8.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1092	TW 42	TWE-W0000-CB	CB Outer Wall EL.0.0m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1093	TW 43	TWE-S0000-CB	CB Outer Wall EL.0.0m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1094	TW 44	TWE-E0000-CB	CB Outer Wall EL.0.0m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1095	TW 45	TWE-W0000-CB	CB Outer Wall EL.0.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1096	TW 46	TWE-N0100-CB	CB Outer Wall EL.1.0m,K	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1097	TW 47	TWE-S0100-CB	CB Outer Wall EL.1.0m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1098	TW 48	TWE-E0100-CB	CB Outer Wall EL.1.0m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1099	TW 49	TWE-W0100-CB	CB Outer Wall EL.1.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1100	TW 50	TWE-N0180-CB	CB Outer Wall EL.1.8m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1101	TW 51	TWE-W0180-CB	CB Outer Wall EL.1.8m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1102	TW 52	TWE-E0180-CB	CB Outer Wall EL.1.8m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1103	TW 53	TWE-W0180-CB	CB Outer Wall EL.1.8m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1104	TW 54	TWE-N0260-CB	CB Outer Wall EL.2.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1105	TW 55	TWE-S0260-CB	CB Outer Wall EL.2.6m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1106	TW 56	TWE-E0260-CB	CB Outer Wall EL.2.6m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1107	TW 57	TWE-W0260-CB	CB Outer Wall EL.2.6m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1108	TW 58	TWE-N0360-CB	CB Outer Wall EL.3.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1109	TW 59	TWE-S0360-CB	CB Outer Wall EL.3.6m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1110	TW 60	TWE-E0360-CB	CB Outer Wall EL.3.6m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1111	TW 61	TWE-W0360-CB	CB Outer Wall EL.3.6m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1112	TW 62	TWE-N0490-CB	CB Outer Wall EL.4.9m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1113	TW 63	TWE-S0490-CB	CB Outer Wall EL.4.9m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1114	TW 64	TWE-E0490-CB	CB Outer Wall EL.4.9m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1115	TW 65	TWE-W0490-CB	CB Outer Wall EL.4.9m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1116	TW 66	TWE-N0600-CB	CB Outer Wall EL.6.0m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1117	TW 67	TWE-S0600-CB	CB Outer Wall EL.6.0m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1118	TW 68	TWE-E0600-CB	CB Outer Wall EL.6.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1119	TW 69	TWE-W0600-CB	CB Outer Wall EL.6.0m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1120	TW 70	TWE-N000E-CB	CB Inner Wall EL.0.0m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1121	TW 71	TWE-S000E-CB	CB Inner Wall EL.0.0m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1122	TW 72	TWE-E000E-CB	CB Inner Wall EL.0.0m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1123	TW 73	TWE-W000E-CB	CB Inner Wall EL.0.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1124	TW 74	TWE-N010E-CB	CB Inner Wall EL.1.0m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1125	TW 75	TWE-S010E-CB	CB Inner Wall EL.1.0m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1126	TW 76	TWE-E010E-CB	CB Inner Wall EL.1.0m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1127	TW 77	TWE-W010E-CB	CB Inner Wall EL.1.0m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1128	TW 78	TWE-N018E-CB	CB Inner Wall EL.1.8m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1129	TW 79	TWE-S018E-CB	CB Inner Wall EL.1.8m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1130	TW 80	TWE-E018E-CB	CB Inner Wall EL.1.8m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1131	TW 81	TWE-W018E-CB	CB Inner Wall EL.1.8m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1132	TW 82	TWE-N026E-CB	CB Inner Wall EL.2.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1133	TW 83	TWE-S026E-CB	CB Inner Wall EL.2.6m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1134	TW 84	TWE-E026E-CB	CB Inner Wall EL.2.6m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1135	TW 85	TWE-W026E-CB	CB Inner Wall EL.2.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1136	TW 86	TWE-N036E-CB	CB Inner Wall EL.3.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1137	TW 87	TWE-S036E-CB	CB Inner Wall EL.3.6m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1138	TW 88	TWE-E036E-CB	CB Inner Wall EL.3.6m,W	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1139	TW 89	TWE-W036E-CB	CB Inner Wall EL.3.6m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1140	TW 90	TWE-N049E-CB	CB Inner Wall EL.4.9m,N	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1141	TW 91	TWE-S049E-CB	CB Inner Wall EL.4.9m,S	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1142	TW 92	TWE-E049E-CB	CB Inner Wall EL.4.9m,E	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1

Table 2.2 (Continued)

AQC DATA QUALITY RECORD (ADR)						LSTF EXP. SB-HL-04 (SM4)		EXP. DATE 88-03-29 PAGE 12			
ICF REV DATE 88-05-23	ROF DATE 88-09-19	LCV XXX	RCV YYY	DQV SHA		RUN DATE 90-12-17					
SEQ NO.	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY			
						LO	HI	ABS. REL.(%)			
1143	TW 93	TWE-W049E-CB	CB Inner Wall EL.4.9m,V	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1144	TW 94	TWE-W060E-CB	CB Inner Wall EL.6.0m,X	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1145	TW 95	TWE-S060E-CB	CB Inner Wall EL.6.0m,S	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1146	TW 96	TWE-E060E-CB	CB Inner Wall EL.6.0m,E	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1147	TW 97	TWE-W060E-CB	CB Inner Wall EL.6.0m,V	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1148	TW 98	TWE-IN03B02-UCPP	UCP L.Surf. EL.3.8m,B02	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1149	TW 99	TWE-IN03B04-UCPP	UCP L.Surf. EL.1.8m,B04	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1150	TW 100	TWE-IN03B06-UCPP	UCP L.Surf. EL.3.8m,B06	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1151	TW 101	TWE-IN03B08-UCPP	UCP L.Surf. EL.3.8m,B08	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1152	TW 102	TWE-IN03B21-UCPP	UCP L.Surf. EL.3.8m,C	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1153	TW 103	TWE-EX04B02-UCPP	UCP U.Surf. EL.4.0m,B02	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1154	TW 104	TWE-EX04B04-UCPP	UCP U.Surf. EL.4.0m,B04	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1155	TW 105	TWE-EX04B06-UCPP	UCP U.Surf. EL.4.0m,B06	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1156	TW 106	TWE-EX04B08-UCPP	UCP U.Surf. EL.4.0m,B08	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1157	TW 107	TWE-EX04B21-UCPP	UCP U.Surf. EL.4.0m,C	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1158	TW 108	TWE-063-B09-UCSP	UCSP L.Surf. EL.6.3m,B09	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1159	TW 109	TWE-065-B09-UCSP	UCSP U.Surf. EL.6.5m,B09	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1160	TW 110	TWE-E047G-UP	UP Str. Surf. EL.4.7m,East	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1161	TW 111	TWE-W047G-UP	UP Str. Surf. EL.4.7m,West	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1162	TW 112	TWE-E056G-UP	UP Str. Surf. EL.5.6m,East	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1163	TW 113	TWE-W056G-UP	UP Str. Surf. EL.5.6m,West	GOOD		2.700+2	9.700+2	K	4.312+0 6.160-1		
1164	TW 114	TWE-080G-UH	UP Str. Surf. EL.8.0m,C	GOOD		2.700+2	9.700+2	K	4.312+0 5.370-1		
1165	TW 115	TWE-B013A2	B01 Rod(3,4) Pos.2	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1166	TW 116	TWE-B013A4	B01 Rod(3,4) Pos.4	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1167	TW 117	TWE-B013A5	B01 Rod(3,4) Pos.5	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1168	TW 118	TWE-B013A6	B01 Rod(3,4) Pos.6	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1169	TW 119	TWE-B013A7	B01 Rod(3,4) Pos.7	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1170	TW 120	TWE-B013A8	B01 Rod(3,4) Pos.8	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1171	TW 121	TWE-B02431	B20 Rod(4,3) Pos.1	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1172	TW 122	TWE-B02432	B20 Rod(4,3) Pos.2	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1173	TW 123	TWE-B02435	B20 Rod(4,3) Pos.5	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1174	TW 124	TWE-B02436	B20 Rod(4,3) Pos.6	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1175	TW 125	TWE-B02438	B20 Rod(4,3) Pos.8	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1176	TW 126	TWE-B02439	B20 Rod(4,3) Pos.9	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1177	TW 127	TWE-B02241	B02 Rod(2,4) Pos.1	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1178	TW 128	TWE-B02242	B02 Rod(2,4) Pos.2	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1179	TW 129	TWE-B02244	B02 Rod(2,4) Pos.4	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1180	TW 130	TWE-B02245	B02 Rod(2,4) Pos.5	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1181	TW 131	TWE-B02247	B02 Rod(2,4) Pos.7	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1182	TW 132	TWE-B02249	B02 Rod(2,4) Pos.9	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1183	TW 133	TWE-B02341	B02 Rod(3,4) Pos.1	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1184	TW 134	TWE-B02343	B02 Rod(3,4) Pos.3	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1185	TW 135	TWE-B02345	B02 Rod(3,4) Pos.5	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1186	TW 136	TWE-B02346	B02 Rod(3,4) Pos.6	GOOD		2.700+2	1.470+3	K	6.444+0 5.370-1		
1187	TW 137	TWE-B02348	B02 Rod(3,4) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1188	TW 138	TWE-B02349	B02 Rod(3,4) Pos.9	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1189	TW 139	TWE-B02482	B02 Rod(4,3) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1190	TW 140	TWE-B02484	B02 Rod(4,3) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1191	TW 141	TWE-B02485	B02 Rod(4,3) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1192	TW 142	TWE-B02486	B02 Rod(4,3) Pos.6	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1193	TW 143	TWE-B02487	B02 Rod(4,3) Pos.7	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1194	TW 144	TWE-B02488	B02 Rod(4,3) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1195	TW 145	TWE-B03421	B03 Rod(4,2) Pos.1	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1196	TW 146	TWE-B03422	B03 Rod(4,2) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1197	TW 147	TWE-B03424	B03 Rod(4,2) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1198	TW 148	TWE-B03425	B03 Rod(4,2) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1199	TW 149	TWE-B03427	B03 Rod(4,2) Pos.7	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1200	TW 150	TWE-B03429	B03 Rod(4,2) Pos.9	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1201	TW 151	TWE-B03431	B03 Rod(4,3) Pos.1	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1202	TW 152	TWE-B03433	B03 Rod(4,3) Pos.3	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1203	TW 153	TWE-B03435	B03 Rod(4,3) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1204	TW 154	TWE-B03436	B03 Rod(4,3) Pos.6	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1205	TW 155	TWE-B03438	B03 Rod(4,3) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1206	TW 156	TWE-B03439	B03 Rod(4,3) Pos.9	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1207	TW 157	TWE-B03442	B03 Rod(8,4) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1208	TW 158	TWE-B03444	B03 Rod(8,4) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1209	TW 159	TWE-B03485	B03 Rod(8,4) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1210	TW 160	TWE-B03446	B03 Rod(8,4) Pos.6	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1211	TW 161	TWE-B03447	B03 Rod(8,4) Pos.7	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1212	TW 162	TWE-B03448	B03 Rod(8,4) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1213	TW 163	TWE-B04432	B04 Rod(4,3) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1214	TW 164	TWE-B04434	B04 Rod(4,3) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1215	TW 165	TWE-B04435	B04 Rod(4,3) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1216	TW 166	TWE-B04436	B04 Rod(4,3) Pos.6	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1217	TW 167	TWE-B04437	B04 Rod(4,3) Pos.7	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1218	TW 168	TWE-B04438	B04 Rod(4,3) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1219	TW 169	TWE-B05342	B05 Rod(3,4) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1220	TW 170	TWE-B05344	B05 Rod(3,4) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1221	TW 171	TWE-B05345	B05 Rod(3,4) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1222	TW 172	TWE-B05346	B05 Rod(3,4) Pos.6	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1223	TW 173	TWE-B05347	B05 Rod(3,4) Pos.7	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1224	TW 174	TWE-B05348	B05 Rod(3,4) Pos.8	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1225	TW 175	TWE-B05172	B05 Rod(1,7) Pos.2	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1226	TW 176	TWE-B05174	B05 Rod(1,7) Pos.4	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		
1227	TW 177	TWE-B05175	B05 Rod(1,7) Pos.5	GOOD		2.700+2	1.470+3	X	6.444+0 5.370-1		

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (DDR)						LSTF EXP. SB-ML-04 (SHA)			EXP. DATE 88-03-29 PAGE 13					
ICF REV	REV DATE	88-06-23	RDF DATE	88-09-19	LCV XXX	RCV YYY	DQV SHA	RUN DATE 90-12-17						
SEQ NO.	FUNC ID.	TAG NAME	LOCATION			DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY				
1228	TW 178	TWE-B05176	B05 Rad(1,7) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1229	TW 179	TWE-B05177	B05 Rad(1,7) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1230	TW 180	TWE-B05178	B05 Rad(1,7) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1231	TW 181	TWE-B06241	B06 Rad(2,4) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1232	TW 182	TWE-B06242	B06 Rad(2,4) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1233	TW 183	TWE-B06244	B06 Rad(2,4) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1234	TW 184	TWE-B06245	B06 Rad(2,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1235	TW 185	TWE-B06247	B06 Rad(2,4) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1236	TW 186	TWE-B06249	B06 Rad(2,4) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1237	TW 187	TWE-B06341	B06 Rad(3,4) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1238	TW 188	TWE-B06343	B06 Rad(3,4) Pos.3		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1239	TW 189	TWE-B06345	B06 Rad(3,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1240	TW 190	TWE-B06346	B06 Rad(3,4) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1241	TW 191	TWE-B06348	B06 Rad(3,4) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1242	TW 192	TWE-B06349	B06 Rad(3,4) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1243	TW 193	TWE-B06482	B06 Rad(4,8) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1244	TW 194	TWE-B06484	B06 Rad(4,8) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1245	TW 195	TWE-B06485	B06 Rad(4,8) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1246	TW 196	TWE-B06486	B06 Rad(4,8) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1247	TW 197	TWE-B06487	B06 Rad(4,8) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1248	TW 198	TWE-B06488	B06 Rad(4,8) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1249	TW 199	TWE-B07421	B07 Rad(4,2) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1250	TW 200	TWE-B07422	B07 Rad(4,2) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1251	TW 201	TWE-B07424	B07 Rad(4,2) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1252	TW 202	TWE-B07425	B07 Rad(4,2) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1253	TW 203	TWE-B07427	B07 Rad(4,2) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1254	TW 204	TWE-B07429	B07 Rad(4,2) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1255	TW 205	TWE-B07431	B07 Rad(4,3) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1256	TW 206	TWE-B07433	B07 Rad(4,3) Pos.3		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1257	TW 207	TWE-B07435	B07 Rad(4,3) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1258	TW 208	TWE-B07436	B07 Rad(4,3) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1259	TW 209	TWE-B07438	B07 Rad(4,3) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1260	TW 210	TWE-B07439	B07 Rad(4,3) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1261	TW 211	TWE-B07842	B07 Rad(8,4) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1262	TW 212	TWE-B07844	B07 Rad(8,4) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1263	TW 213	TWE-B07845	B07 Rad(8,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1264	TW 214	TWE-B07846	B07 Rad(8,4) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1265	TW 215	TWE-B07847	B07 Rad(8,4) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1266	TW 216	TWE-B07848	B07 Rad(8,4) Pos.8		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1267	TW 217	TWE-B08222	B08 Rad(2,2) Pos.7		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1268	TW 218	TWE-B08224	B08 Rad(2,2) Pos.4		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1269	TW 219	TWE-B08225	B08 Rad(2,2) Pos.5		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1270	TW 220	TWE-B08226	B08 Rad(2,2) Pos.6		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1271	TW 221	TWE-B08227	B08 Rad(2,2) Pos.7		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1272	TW 222	TWE-B08228	B08 Rad(2,2) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1273	TW 223	TWE-B08432	B08 Rad(4,3) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1274	TW 224	TWE-B08434	B08 Rad(4,3) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1275	TW 225	TWE-B08435	B08 Rad(4,3) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1276	TW 226	TWE-B08436	B08 Rad(4,3) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1277	TW 227	TWE-B08437	B08 Rad(4,3) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1278	TW 228	TWE-B08438	B08 Rad(4,3) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1279	TW 229	TWE-B09442	B09 Rad(4,4) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1280	TW 230	TWE-B09444	B09 Rad(4,4) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1281	TW 231	TWE-B09445	B09 Rad(4,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1282	TW 232	TWE-B09446	B09 Rad(4,4) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1283	TW 233	TWE-B09447	B09 Rad(4,4) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1284	TW 234	TWE-B09448	B09 Rad(4,4) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1285	TW 235	TWE-B10441	B10 Rad(4,4) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1286	TW 236	TWE-B10442	B10 Rad(4,4) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1287	TW 237	TWE-B10444	B10 Rad(4,4) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1288	TW 238	TWE-B10445	B10 Rad(4,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1289	TW 239	TWE-B10447	B10 Rad(4,4) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1290	TW 240	TWE-B10449	B10 Rad(4,4) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1291	TW 241	TWE-B10451	B10 Rad(4,5) Pos.1		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1292	TW 242	TWE-B10453	B10 Rad(4,5) Pos.3		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1293	TW 243	TWE-B10455	B10 Rad(4,5) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1294	TW 244	TWE-B10456	B10 Rad(4,5) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1295	TW 245	TWE-B10458	B10 Rad(4,5) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1296	TW 246	TWE-B10459	B10 Rad(4,5) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1297	TW 247	TWE-B10442	B11 Rad(4,4) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1298	TW 248	TWE-B11444	B11 Rad(4,4) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1299	TW 249	TWE-B11445	B11 Rad(4,4) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1300	TW 250	TWE-B11446	B11 Rad(4,4) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1301	TW 251	TWE-B11447	B11 Rad(4,4) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1302	TW 252	TWE-B11448	B11 Rad(4,4) Pos.9		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1303	TW 253	TWE-B11172	B11 Rad(1,7) Pos.2		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1304	TW 254	TWE-B11174	B11 Rad(1,7) Pos.4		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1305	TW 255	TWE-B11175	B11 Rad(1,7) Pos.5		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1306	TW 256	TWE-B11176	B11 Rad(1,7) Pos.6		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1307	TW 257	TWE-B11177	B11 Rad(1,7) Pos.7		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1308	TW 258	TWE-B11178	B11 Rad(1,7) Pos.8		GOOD			2.700+2	1.470+3	K	6.444+0	5.370-1		
1309	TW 259	TWE-B12262	B12 Rad(2,6) Pos.2		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1310	TW 260	TWE-B12264	B12 Rad(2,6) Pos.4		GOOD			2.700+2	9.700+2	K	4.312+0	6.160-1		
1311	TW 261	TWE-B12265	B12 Rad(2											

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)			LSTF EXP. SB-HL-04 (SH4)			EXP. DATE 88-03-29 PAGE 14										
ICF REV DATE 88-06-23			RDF DATE 88-09-19			LCV XXX			RCV YYY			DDV SH4		RUN DATE 90-12-17		
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY					SPAN	LIMTS	UNIT	UNCERTAINTY				
									LO	HI		ABS.	REL. (%)			
1313	TW 263	TWE-B12267	B12 Rad(2,6) Pos.7	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1314	TW 264	TWE-B12268	B12 Rad(2,6) Pos.8	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1315	TW 265	TWE-B12441	B12 Rad(4,4) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1316	TW 266	TWE-B12442	B12 Rad(4,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1317	TW 267	TWE-B12444	B12 Rad(4,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1318	TW 268	TWE-B12445	B12 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1319	TW 269	TWE-B12447	B12 Rad(4,4) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1320	TW 270	TWE-B12449	B12 Rad(4,4) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1321	TW 271	TWE-B12431	B12 Rad(4,4) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1322	TW 272	TWE-B12433	B12 Rad(4,4) Pos.3	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1323	TW 273	TWE-B12435	B12 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1324	TW 274	TWE-B12436	B12 Rad(4,4) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1325	TW 275	TWE-B12438	B12 Rad(4,4) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1326	TW 276	TWE-B12439	B12 Rad(4,4) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1327	TW 277	TWE-B13662	B13 Rad(6,6) Pos.2	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1328	TW 278	TWE-B13664	B13 Rad(6,6) Pos.4	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1329	TW 279	TWE-B13665	B13 Rad(6,6) Pos.5	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1330	TW 280	TWE-B13666	B13 Rad(6,6) Pos.6	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1331	TW 281	TWE-B13667	B13 Rad(6,6) Pos.7	GOOD					2.700+2	9.700+2	K	4.312+0	6.160-1			
1332	TW 282	TWE-B13668	B13 Rad(6,6) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1333	TW 283	TWE-B13442	B13 Rad(4,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1334	TW 284	TWE-B13444	B13 Rad(4,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1335	TW 285	TWE-B13445	B13 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1336	TW 286	TWE-B13446	B13 Rad(4,4) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1337	TW 287	TWE-B13447	B13 Rad(4,4) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1338	TW 288	TWE-B13448	B13 Rad(4,4) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1339	TW 289	TWE-B14541	B14 Rad(5,4) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1340	TW 290	TWE-B14542	B14 Rad(5,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1341	TW 291	TWE-B14544	B14 Rad(5,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1342	TW 292	TWE-B14545	B14 Rad(5,4) Pos.5	GOOD					2.700+2	1.470+3	X	6.444+0	5.370-1			
1343	TW 293	TWE-B14547	B14 Rad(5,4) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1344	TW 294	TWE-B14549	B14 Rad(5,4) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1345	TW 295	TWE-B14441	B14 Rad(4,4) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1346	TW 296	TWE-B14443	B14 Rad(4,4) Pos.3	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1347	TW 297	TWE-B14445	B14 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1348	TW 298	TWE-B14446	B14 Rad(4,4) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1349	TW 299	TWE-B14448	B14 Rad(4,4) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1350	TW 300	TWE-B14449	B14 Rad(4,4) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1351	TW 301	TWE-B14172	B14 Rad(1,7) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1352	TW 302	TWE-B14174	B14 Rad(1,7) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1353	TW 303	TWE-B14175	B14 Rad(1,7) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1354	TW 304	TWE-B14176	B14 Rad(1,7) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1355	TW 305	TWE-B14177	B14 Rad(1,7) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1356	TW 306	TWE-B14178	B14 Rad(1,7) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1357	TW 307	TWE-B14179	B14 Rad(4,4) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1358	TW 308	TWE-B15442	B15 Rad(4,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1359	TW 309	TWE-B15444	B15 Rad(4,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1360	TW 310	TWE-B15445	B15 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1361	TW 311	TWE-B15447	B15 Rad(4,4) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1362	TW 312	TWE-B15449	B15 Rad(4,4) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1363	TW 313	TWE-B15451	B15 Rad(4,5) Pos.1	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1364	TW 314	TWE-B15453	B15 Rad(4,5) Pos.3	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1365	TW 315	TWE-B15455	B15 Rad(4,5) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1366	TW 316	TWE-B15456	B15 Rad(4,5) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1367	TW 317	TWE-B15458	B15 Rad(4,5) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1368	TW 318	TWE-B15459	B15 Rad(4,5) Pos.9	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1369	TW 319	TWE-B15172	B15 Rad(1,7) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1370	TW 320	TWE-B15174	B15 Rad(1,7) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1371	TW 321	TWE-B15175	B15 Rad(1,7) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1372	TW 322	TWE-B15176	B15 Rad(1,7) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1373	TW 323	TWE-B15177	B15 Rad(1,7) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1374	TW 324	TWE-B15178	B15 Rad(1,7) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1375	TW 325	TWE-B16442	B16 Rad(4,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1376	TW 326	TWE-B16444	B16 Rad(4,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1377	TW 327	TWE-B16445	B16 Rad(4,4) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1378	TW 328	TWE-B16446	B16 Rad(4,4) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1379	TW 329	TWE-B16447	B16 Rad(4,4) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1380	TW 330	TWE-B16448	B16 Rad(4,4) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1381	TW 331	TWE-B16172	B16 Rad(1,7) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1382	TW 332	TWE-B16174	B16 Rad(1,7) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1383	TW 333	TWE-B16175	B16 Rad(1,7) Pos.5	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1384	TW 334	TWE-B16176	B16 Rad(1,7) Pos.6	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1385	TW 335	TWE-B16177	B16 Rad(1,7) Pos.7	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1386	TW 336	TWE-B16178	B16 Rad(1,7) Pos.8	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1387	TW 337	TWE-B16179	B16 Rad(4,4) Pos.2	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1388	TW 338	TWE-B17444	B17 Rad(4,4) Pos.4	GOOD					2.700+2	1.470+3	K	6.444+0	5.370-1			
1389	TW 339	TWE-B17445	B17 Rad(4,4) Pos.5	GOOD			</td									

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (30R)				LSIF EXP. SB-HL-04 (SH4)	EXP. DATE 88-03-29 PAGE 15			
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	ADQ SHA	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LO	LIMITS HI	UNIT	UNCERTAINTY ABS. REL.(%)
1398	TV 348	TWE-B17178	B17 Rod(1,7) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1399	TV 349	TWE-B18341	B18 Rod(1,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1400	TV 350	TWE-B18342	B18 Rod(1,4) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1401	TV 351	TWE-B18344	B18 Rod(3,4) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1402	TV 352	TWE-B18345	B18 Rod(3,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1403	TV 353	TWE-B18347	B18 Rod(3,4) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1404	TV 354	TWE-B18349	B18 Rod(3,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1405	TV 355	TWE-B18441	B18 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1406	TV 356	TWE-B18443	B18 Rod(4,4) Pos.3	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1407	TV 357	TWE-B18445	B18 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1408	TV 358	TWE-B18446	B18 Rod(4,4) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1409	TV 359	TWE-B18448	B18 Rod(4,4) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1410	TV 360	TWE-B18449	B18 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1411	TV 361	TWE-B19451	B19 Rod(4,5) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1412	TV 362	TWE-B19452	B19 Rod(4,5) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1413	TV 363	TWE-B19454	B19 Rod(4,5) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1414	TV 364	TWE-B19455	B19 Rod(4,5) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1415	TV 365	TWE-B19457	B19 Rod(4,5) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1416	TV 366	TWE-B19459	B19 Rod(4,5) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1417	TV 367	TWE-B19441	B19 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1418	TV 368	TWE-B19443	B19 Rod(4,4) Pos.3	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1419	TV 369	TWE-B19445	B19 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1420	TV 370	TWE-B19446	B19 Rod(4,4) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1421	TV 371	TWE-B19448	B19 Rod(4,4) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1422	TV 372	TWE-B19449	B19 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1423	TV 373	TWE-B20441	B20 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1424	TV 374	TWE-B20442	B20 Rod(4,4) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1425	TV 375	TWE-B20444	B20 Rod(4,4) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1426	TV 376	TWE-B20445	B20 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1427	TV 377	TWE-B20447	B20 Rod(4,4) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1428	TV 378	TWE-B20449	B20 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1429	TV 379	TWE-B21441	B21 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1430	TV 380	TWE-B21442	B21 Rod(4,4) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1431	TV 381	TWE-B21444	B21 Rod(4,4) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1432	TV 382	TWE-B21445	B21 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1433	TV 383	TWE-B21447	B21 Rod(4,4) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1434	TV 384	TWE-B21449	B21 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1435	TV 385	TWE-B21541	B21 Rod(5,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1436	TV 386	TWE-B21543	B21 Rod(5,4) Pos.3	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1437	TV 387	TWE-B21545	B21 Rod(5,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1438	TV 388	TWE-B21546	B21 Rod(5,4) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1439	TV 389	TWE-B21548	B21 Rod(5,4) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1440	TV 390	TWE-B21549	B21 Rod(5,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1441	TV 391	TWE-B21662	B21 Rod(6,6) Pos.2	GOOD	2.700+2	9.700+2	K	6.312+0 6.160-1
1442	TV 392	TWE-B21664	B21 Rod(6,6) Pos.4	GOOD	2.700+2	9.700+2	K	6.312+0 6.160-1
1443	TV 393	TWE-B21665	B21 Rod(6,6) Pos.5	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1444	TV 394	TWE-B21666	B21 Rod(6,6) Pos.6	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1445	TV 395	TWE-B21667	B21 Rod(6,6) Pos.7	GOOD	2.700+2	9.700+2	K	4.312+0 6.160-1
1446	TV 396	TWE-B21668	B21 Rod(6,6) Pos.8	GOOD	2.700+2	9.700+2	K	6.444+0 5.370-1
1447	TV 397	TWE-B21112	B21 Rod(1,1) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1448	TV 398	TWE-B21114	B21 Rod(1,1) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1449	TV 399	TWE-B21115	B21 Rod(1,1) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1450	TV 400	TWE-B21116	B21 Rod(1,1) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1451	TV 401	TWE-B21117	B21 Rod(1,1) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1452	TV 402	TWE-B21118	B21 Rod(1,1) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1453	TV 403	TWE-B22541	B22 Rod(5,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1454	TV 404	TWE-B22542	B22 Rod(5,4) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1455	TV 405	TWE-B22544	B22 Rod(5,4) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1456	TV 406	TWE-B22545	B22 Rod(5,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1457	TV 407	TWE-B22547	B22 Rod(5,4) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1458	TV 408	TWE-B22549	B22 Rod(5,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1459	TV 409	TWE-B22441	B22 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1460	TV 410	TWE-B22443	B22 Rod(4,4) Pos.3	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1461	TV 411	TWE-B22445	B22 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1462	TV 412	TWE-B22446	B22 Rod(4,4) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1463	TV 413	TWE-B22448	B22 Rod(4,4) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1464	TV 414	TWE-B22449	B22 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1465	TV 415	TWE-B22472	B22 Rod(1,7) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1466	TV 416	TWE-B22474	B22 Rod(1,7) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1467	TV 417	TWE-B22475	B22 Rod(1,7) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1468	TV 418	TWE-B22476	B22 Rod(1,7) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1469	TV 419	TWE-B22477	B22 Rod(1,7) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1470	TV 420	TWE-B22478	B22 Rod(1,7) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1471	TV 421	TWE-B23441	B23 Rod(4,4) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1472	TV 422	TWE-B23442	B23 Rod(4,4) Pos.2	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1473	TV 423	TWE-B23444	B23 Rod(4,4) Pos.4	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1474	TV 424	TWE-B23445	B23 Rod(4,4) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1475	TV 425	TWE-B23447	B23 Rod(4,4) Pos.7	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1476	TV 426	TWE-B23449	B23 Rod(4,4) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1477	TV 427	TWE-B23451	B23 Rod(4,5) Pos.1	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1478	TV 428	TWE-B23453	B23 Rod(4,5) Pos.3	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1479	TV 429	TWE-B23455	B23 Rod(4,5) Pos.5	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1480	TV 430	TWE-B23456	B23 Rod(4,5) Pos.6	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1481	TV 431	TWE-B23458	B23 Rod(4,5) Pos.8	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1
1482	TV 432	TWE-B23459	B23 Rod(4,5) Pos.9	GOOD	2.700+2	1.470+3	K	6.444+0 5.370-1

Table 2.2 (Continued)

ADR DATA QUALITY RECORD (ADR)				LSTF EXP. SB-HL-04 (SHA)	EXP. DATE 88-03-29 PAGE 16				
ICF REV DATE 88-06-23		RDF DATE 88-09-19	LCV XXX	RCV YYY	DRV SHA	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LD	LIMITS HI	UNIT	UNCERTAINTY ABS. REL.(%)
1483	TV 433	TWE-820112	B20 Rad(1,1) Pos.2	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1484	TV 434	TWE-820114	B20 Rad(1,1) Pos.4	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1485	TV 435	TWE-820115	B20 Rad(1,1) Pos.5	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1486	TV 436	TWE-820116	B20 Rad(1,1) Pos.6	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1487	TV 437	TWE-820117	B20 Rad(1,1) Pos.7	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1488	TV 438	TWE-820118	B20 Rad(1,1) Pos.8	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1489	TV 439	TWE-824341	B24 Rad(3,4) Pos.1	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1490	TV 440	TWE-824342	B24 Rad(3,4) Pos.2	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1491	TV 441	TWE-824344	B24 Rad(3,4) Pos.4	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1492	TV 442	TWE-824345	B24 Rad(3,4) Pos.5	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1493	TV 443	TWE-824347	B24 Rad(3,4) Pos.7	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1494	TV 444	TWE-824349	B24 Rad(3,4) Pos.9	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1495	TV 445	TWE-824411	B24 Rad(4,4) Pos.1	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1496	TV 446	TWE-824443	B24 Rad(4,4) Pos.3	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1497	TV 447	TWE-824445	B24 Rad(4,4) Pos.5	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1498	TV 448	TWE-824446	B24 Rad(4,4) Pos.6	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1499	TV 449	TWE-824448	B24 Rad(4,4) Pos.8	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1500	TV 450	TWE-824449	B24 Rad(4,4) Pos.9	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1501	TV 451	TWE-824712	B24 Rad(7,1) Pos.2	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1502	TV 452	TWE-824714	B24 Rad(7,1) Pos.4	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1503	TV 453	TWE-824715	B24 Rad(7,1) Pos.5	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1504	TV 454	TWE-824716	B24 Rad(7,1) Pos.6	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1505	TV 455	TWE-824717	B24 Rad(7,1) Pos.7	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1506	TV 456	TWE-824718	B24 Rad(7,1) Pos.8	GOOD		2,700+2	1,470+3	K	6.444+0 5.370-1
1507	TV 457	TWE-IN0641-SGA	SGA Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1508	TV 458	TWE-IN0642-SGA	SGA Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1509	TV 459	TWE-IN0643-SGA	SGA Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1510	TV 460	TWE-EX0641-SGA	SGA Outlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1511	TV 461	TWE-EX0642-SGA	SGA Outlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1512	TV 462	TWE-EX0643-SGA	SGA Outlet Plenum	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1513	TV 463	TWE-066B-SGA	SGA Inner Wall Pos.1	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1514	TV 464	TWE-137B-SGA	SGA Inner Wall Pos.7	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1515	TV 465	TWE-178B-SGA	SGA Inner Wall Pos.10	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1516	TV 466	TWE-2238-SGA	SGA Inner Wall	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1517	TV 467	TWE-IM0861-SGA	SGA U-Tube(1,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1518	TV 468	TWE-EX0861-SGA	SGA U-Tube(1,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1519	TV 469	TWE-IN0862-SGA	SGA U-Tube(1,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1520	TV 470	TWE-EX0862-SGA	SGA U-Tube(2,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1521	TV 471	TWE-IN0863-SGA	SGA U-Tube(1,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1522	TV 472	TWE-EX0863-SGA	SGA U-Tube(3,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1523	TV 473	TWE-IN0991-SGA	SGA U-Tube(1,IN) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1524	TV 474	TWE-EX0991-SGA	SGA U-Tube(1,EX) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1525	TV 475	TWE-IN0992-SGA	SGA U-Tube(2,IN) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1526	TV 476	TWE-EX0992-SGA	SGA U-Tube(2,EX) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1527	TV 477	TWE-IN0993-SGA	SGA U-Tube(3,IN) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1528	TV 478	TWE-EX0993-SGA	SGA U-Tube(3,EX) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1529	TV 479	TWE-IN1121-SGA	SGA U-Tube(1,IN) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1530	TV 480	TWE-EX1121-SGA	SGA U-Tube(1,EX) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1531	TV 481	TWE-IN1122-SGA	SGA U-Tube(2,IN) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1532	TV 482	TWE-EX1122-SGA	SGA U-Tube(2,EX) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1533	TV 483	TWE-IN1123-SGA	SGA U-Tube(3,IN) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1534	TV 484	TWE-EX1123-SGA	SGA U-Tube(3,EX) Pos.5	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1535	TV 485	TWE-IN1371-SGA	SGA U-Tube(1,IN) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1536	TV 486	TWE-EX1371-SGA	SGA U-Tube(1,EX) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1537	TV 487	TWE-IN1372-SGA	SGA U-Tube(2,IN) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1538	TV 488	TWE-EX1372-SGA	SGA U-Tube(2,EX) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1539	TV 489	TWE-IN1373-SGA	SGA U-Tube(3,IN) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1540	TV 490	TWE-EX1373-SGA	SGA U-Tube(3,EX) Pos.7	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1541	TV 491	TWE-IN1632-SGA	SGA U-Tube(2,IN) Pos.9	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1542	TV 492	TWE-EX1632-SGA	SGA U-Tube(2,EX) Pos.9	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1543	TV 493	TWE-IN1633-SGA	SGA U-Tube(3,IN) Pos.9	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1544	TV 494	TWE-EX1633-SGA	SGA U-Tube(3,EX) Pos.9	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1545	TV 495	TWE-IN1701-SGA	SGA U-Tube(1,IN) Pos.10	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1546	TV 496	TWE-IN1782-SGA	SGA U-Tube(2,IN) Pos.10	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1547	TV 497	TWE-IN1863-SGA	SGA U-Tube(3,IN) Pos.11	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1548	TV 498	TWE-IN0641-SGB	SGB Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.735+0 8.300-1
1549	TV 499	TWE-IN0642-SGB	SGB Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.735+0 8.300-1
1550	TV 500	TWE-IN0643-SGB	SGB Inlet Plenum	GOOD		2,700+2	7,200+2	K	3.735+0 8.300-1
1551	TV 501	TWE-EX0641-SGB	SGB Outlet Plenum	GOOD		2,700+2	7,200+2	K	3.735+0 8.300-1
1552	TV 502	TWE-EX0642-SGB	SGB Outlet Plenum	GOOD		2,700+2	7,200+2	K	3.735+0 8.300-1
1553	TV 503	TWE-EX0643-SGB	SGB Outlet Plenum	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1554	TV 504	TWE-0868-SGB	SGB Inner Wall Pos.1	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1555	TV 505	TWE-1378-SGB	SGB Inner Wall Pos.7	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1556	TV 506	TWE-1788-SGB	SGB Inner Wall Pos.10	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1557	TV 507	TWE-2238-SGB	SGB Inner Wall	GOOD		2,700+2	6,700+2	K	3.108+0 7.770-1
1558	TV 508	TWE-IN0861-SGB	SGB U-Tube(1,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1559	TV 509	TWE-EX0861-SGB	SGB U-Tube(1,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1560	TV 510	TWE-IN0862-SGB	SGB U-Tube(2,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1561	TV 511	TWE-EX0862-SGB	SGB U-Tube(2,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1562	TV 512	TWE-IN0863-SGB	SGB U-Tube(3,IN) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1563	TV 513	TWE-EX0863-SGB	SGB U-Tube(3,EX) Pos.1	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1564	TV 514	TWE-IN0991-SGB	SGB U-Tube(1,IN) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1565	TV 515	TWE-EX0991-SGB	SGB U-Tube(1,EX) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1566	TV 516	TWE-IN0992-SGB	SGB U-Tube(2,IN) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1
1567	TV 517	TWE-EX0992-SGB	SGB U-Tube(2,EX) Pos.3	GOOD		2,700+2	7,200+2	K	3.307+0 7.350-1

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (DDR)				LSTF EXP. SB-NL-04 (SH4)	EXP. DATE 88-03-29 PAGE 17			
ICF REV DATE 88-05-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DQV SH4	RUM DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LIMITS	UNIT	UNCERTAINTY	
					LD HI	Abs. Rel.(%)		
1568	TV 518	TWE-IN0993-SGB	SGB U-Tube(3,IN) Pos.3	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1569	TV 519	TWE-EX0993-SGB	SGB U-Tube(3,Ex) Pos.3	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1570	TV 520	TWE-IN1121-SGB	SGB U-Tube(1,IN) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1571	TV 521	TWE-EX1121-SGB	SGB U-Tube(1,Ex) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1572	TV 522	TWE-IN1122-SGB	SGB U-Tube(2,IN) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1573	TV 523	TWE-EX1122-SGB	SGB U-Tube(2,Ex) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1574	TV 524	TWE-IN1123-SGB	SGB U-Tube(3,IN) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1575	TV 525	TWE-EX1123-SGB	SGB U-Tube(3,Ex) Pos.5	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1576	TV 526	TWE-IN1131-SGB	SGB U-Tube(1,IN) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1577	TV 527	TWE-EX1131-SGB	SGB U-Tube(1,Ex) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1578	TV 528	TWE-IN1132-SGB	SGB U-Tube(2,IN) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1579	TV 529	TWE-EX1132-SGB	SGB U-Tube(2,Ex) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1580	TV 530	TWE-IN1133-SGB	SGB U-Tube(3,IN) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1581	TV 531	TWE-EX1133-SGB	SGB U-Tube(3,Ex) Pos.7	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1582	TV 532	TWE-IN1632-SGB	SGB U-Tube(2,IN) Pos.9	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1583	TV 533	TWE-EX1632-SGB	SGB U-Tube(2,Ex) Pos.9	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1584	TV 534	TWE-IN1633-SGB	SGB U-Tube(3,IN) Pos.9	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1585	TV 535	TWE-EX1633-SGB	SGB U-Tube(3,Ex) Pos.9	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1586	TV 536	TWE-IN1701-SGB	SGB U-Tube(1,IN) Pos.10	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1587	TV 537	TWE-EX1702-SGB	SGB U-Tube(2,IN) Pos.10	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1588	TW 518	TWE-IN1863-SGB	SGB U-Tube(3,IN) Pos.11	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1589	TW 519	TWE-2114-PR	PR Outer Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1590	TW 520	TWE-2115-PR	PR Inner Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1591	TW 521	TWE-1948-PR	PR Outer Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1592	TW 522	TWE-1949-PR	PR Inner Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1593	TW 543	TWE-177A-PR	PR Outer Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1594	TW 544	TWE-177B-PR	PR Inner Wall	GOOD	2.700+2	7.200+2 K	3.307+0 7.350-1	
1595	TW 545	TWE270A-PR	PR Spray Line Outer Wall	GOOD	0.0	1.500+3 K	6.030+0 4.020-1	
1596	TW 546	TWE011A-HLA	HLA S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1597	TW 547	TWE011B-HLA	HLA S.P Side	UNUSED	0.0	0.0 V	0.0 0.0	
1598	TW 548	TWE011C-HLA	HLA S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1599	TW 549	TWE0211-HLA	SGA Inlet	UNUSED	0.0	0.0 V	0.0 0.0	
1600	TV 550	TWE051A-LSA	LSA Line North	UNUSED	0.0	0.0 V	0.0 0.0	
1601	TV 551	TWE0519-LSA	LSA Line South	UNUSED	0.0	0.0 V	0.0 0.0	
1602	TV 552	TWE051C-LSA	LSA Line East	UNUSED	0.0	0.0 V	0.0 0.0	
1603	TV 553	TWE0510-LSA	SGA Outlet	UNUSED	0.0	0.0 V	0.0 0.0	
1604	TV 554	TWE071A-CLA	CLA S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1605	TV 555	TWE071B-CLA	CLA S.P Side	UNUSED	0.0	0.0 V	0.0 0.0	
1606	TV 556	TWE071C-CLA	CLA S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1607	TV 557	TWE1514-HLB	HLB S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1608	TV 558	TWE1518-HLB	HLB S.P Side	UNUSED	0.0	0.0 V	0.0 0.0	
1609	TV 559	TWE151C-HLB	HLB S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1610	TV 560	TWE1611-HLB	SGB Inlet	UNUSED	0.0	0.0 V	0.0 0.0	
1611	TV 561	TWE191A-LSB	LSB Line North	UNUSED	0.0	0.0 V	0.0 0.0	
1612	TV 562	TWE1918-LSB	LSB Line South	UNUSED	0.0	0.0 V	0.0 0.0	
1613	TV 563	TWE191C-LSB	LSB Line East	UNUSED	0.0	0.0 V	0.0 0.0	
1614	TV 564	TWE191D-LSB	SGB Outlet	UNUSED	0.0	0.0 V	0.0 0.0	
1615	TV 565	TWE211A-CLB	CLB S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1616	TV 566	TWE211B-CLB	CLB S.P Side	UNUSED	0.0	0.0 V	0.0 0.0	
1617	TV 567	TWE211C-CLB	CLB S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1618	TV 568	TWE291A-PR	PR Relief Line S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1619	TV 569	TWE291B-PR	PR Relief Line S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1620	TV 570	TWE301A-PR	PR Safety S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1621	TV 571	TWE301B-PR	PR Safety S.P Bottom	UNUSED	0.0	0.0 V	0.0 0.0	
1622	TV 572	TWE571A-BU	BU.1 S.P Up-Stream	UNUSED	0.0	0.0 V	0.0 0.0	
1623	TV 573	TWE571B-BU	BU.1 S.P Down-Stream	UNUSED	0.0	0.0 V	0.0 0.0	
1624	TV 574	TWE571C-BU	BU.2 S.P Up-Stream	UNUSED	0.0	0.0 V	0.0 0.0	
1625	TV 575	TWE591A-BU	BU.2 S.P Down-Stream	UNUSED	0.0	0.0 V	0.0 0.0	
1626	TV 576	TWE591B-BU	BU.2 S.P Up-Stream	UNUSED	0.0	0.0 V	0.0 0.0	
1627	TV 581	TWE061A-LSA	LSA S.P North	UNUSED	0.0	0.0 V	0.0 0.0	
1632	TV 582	TWE061B-LSA	LSA S.P South	UNUSED	0.0	0.0 V	0.0 0.0	
1633	TV 583	TWE201A-LSB	LSB S.P South	UNUSED	0.0	0.0 V	0.0 0.0	
1634	TV 584	TWE201B-LSB	LSB S.P North	UNUSED	0.0	0.0 V	0.0 0.0	
1635	TV 585	TWE311A-PR	PV-PR Vent Line S.P Top	UNUSED	0.0	0.0 V	0.0 0.0	
1636	TV 586	TWE311B-PR	PV-PR Vent Line S.P Bottom	UNUSED	0.0	4.000+1 kg/s	6.480+3 1.620+0	
1731	FE 1	FED10-HLA	HLA Leakage(Positive)	GOOD	0.0	0.0 V	0.0 0.0	
1732	FE 2	FEO20A-LSA	Primary Loop A (High)	GOOD	0.0	9.000+1 kg/s	1.008+0 1.120+0	
1733	FE 3	FEO20B-LSA	Primary Loop A (Low)	GOOD	0.0	1.581+1 kg/s	1.739+1 1.100+0	
1734	FE 4	FE150-HLB	HLB Leakage(Positive)	GOOD	0.0	4.000+1 kg/s	6.480+3 1.620+0	
1735	FE 5	FE160A-LSB	Primary Loop B (High)	GOOD	0.0	9.000+1 kg/s	1.008+0 1.120+0	
1736	FE 6	FE160B-LSB	Primary Loop B (Low)	GOOD	0.0	1.581+1 kg/s	1.739+1 1.100+0	
1737	FE 7	FEO20A-PR	PR Spray Line	QUESTIONABLE	0.0	1.000+0 kg/s	1.120+2 1.120+0	
1738	FE 8	FEO20A-PR	PR Surge Line (Forward)	UNUSED	0.0	5.000+0 kg/s	8.100+1 1.620+0	
1739	FE 9	FEO20B-PR	PR Surge Line (Reverse)	UNUSED	-1.000+1 0.0	kg/s	1.620+1 1.620+0	
1740	FE 10	FEO20A-PR	PR Relief Valve	GOOD (ZERO FLOW)	0.0	3.000+0 kg/s	4.860+2 1.620+0	
1741	FE 11	FEO300-PR	PR Safety Valve	GOOD (ZERO FLOW)	0.0	6.000+0 kg/s	9.720+2 1.620+0	
1742	FE 12	FE310-PV	PV-PR Vent Line	QUESTIONABLE	0.0	2.000+0 kg/s	4.580+2 2.290+0	
1743	FE 13	FE430-SGA	SGA Feedwater	GOOD	0.0	4.000+0 kg/s	8.480+2 1.620+0	
1744	FE 14	FE431-SGA	SGA Downcomer	QUESTIONABLE	0.0	7.000+0 kg/s	1.134+1 1.620+0	
1745	FE 15	FE432-SGA	SGA Downcomer	GOOD	0.0	7.000+0 kg/s	1.134+1 1.620+0	
1746	FE 16	FE433-SGA	SGA Downcomer	GOOD	0.0	7.000+0 kg/s	1.134+1 1.620+0	
1747	FE 17	FE434-SGA	SGA Downcomer	GOOD	0.0	7.000+0 kg/s	1.134+1 1.620+0	
1748	FE 18	FE440-SGA	SGA Steam Line	GOOD	0.0	5.000+0 kg/s	1.145+1 2.290+0	
1749	FE 19	FE450-SGA	SGA Relief Valve Line	GOOD	0.0	4.000+0 kg/s	9.150+2 2.290+0	
1750	FE 20	FE460-SGA	SGA Safety Valve Line	QUESTIONABLE	0.0	1.500+2 kg/s	3.435+0 2.290+0	
1751	FE 21	FE470-SGB	SGB Feedwater	GOOD	0.0	4.000+0 kg/s	8.480+2 1.620+0	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR) LSIF EXP. SB-JIL-04 (SH4)				EXP. DATE 88-03-29 PAGE 18				
ICF REV DATE 88-06-23		RDF DATE 88-09-19		LCV XXX	RCV YYY	DQR SH4	RUN DATE 90-12-17	
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY
				LO	HI	LO	HI	ABS. REL.(%)
1752	FE 22	FE471-SGB	SGB Downcomer	GOOD		0.0	7.000+0 kg/s	1.134+1 1.620+0
1753	FE 23	FE472-SGB	SGB Downcomer	GOOD		0.0	7.000+0 kg/s	1.134+1 1.620+0
1754	FE 24	FE473-SGB	SGB Downcomer	GOOD		0.0	7.000+0 kg/s	1.134+1 1.620+0
1755	FE 25	FE474-SGB	SGB Downcomer	GOOD		0.0	7.000+0 kg/s	1.134+1 1.620+0
1756	FE 26	FE480-SGB	SGB Steam Line	GOOD		0.0	5.000+0 kg/s	1.145+1 2.290+0
1757	FE 27	FE490-SGB	SGB Relief Valve Line	GOOD		0.0	4.000+0 kg/s	9.160+2 2.290+0
1758	FE 28	FE500-SGB	SGB Safety Valve Line	QUESTIONABLE (ZERO FLOW)		0.0	1.500+2 kg/s	3.435+0 2.290+0
1759	FE 29	FE510-SH	Steam Header	QUESTIONABLE		0.0	1.000+1 kg/s	2.290+1 2.290+0
1761	FE 31	FE5604-BU	BU No.1 Venturi (High)	QUESTIONABLE		0.0	7.000+1 kg/s	7.700+1 1.100+0
1762	FE 32	FE5608-BU	BU No.1 Venturi (Low)	QUESTIONABLE		0.0	1.000+1 kg/s	1.100+1 1.100+0
1763	FE 33	FE5704-BU	BU No.2 Venturi (High)	UNUSED		0.0	1.000+1 kg/s	1.120+1 1.120+0
1764	FE 34	FE5708-BU	BU No.2 Venturi (Low)	UNUSED		0.0	2.240+0 kg/s	2.509+2 1.120+0
1765	FE 35	FE580-ST	ST Vent Line	UNUSED		0.0	3.000+1 kg/s	3.090+3 1.030+0
1766	FE 36	FE590-ST	ST Bleed Line	UNUSED		0.0	2.000+1 kg/s	2.080+1 1.030+0
1767	FE 37	FE590-ACC	Cold Acc Flow to CLA	GOOD		0.0	1.500+1 kg/s	3.435+1 2.290+0
1768	FE 38	FE660-ACC	Cold Acc Flow to CLB	QUESTIONABLE (ZERO FLOW)		0.0	9.000+1 kg/s	2.061+0 2.290+0
1769	FE 39	FE670-ACH	Hot Acc Flow to CLA	QUESTIONABLE (ZERO FLOW)		0.0	9.000+1 kg/s	2.061+0 2.290+0
1770	FE 40	FE680-ACH	Hot Acc Flow to CLB	GOOD		0.0	1.000+1 kg/s	2.290+1 2.290+0
1771	FE 41	FE730-PJ	PJ Delivery	GOOD		0.0	2.200+0 kg/s	3.542+2 1.610+0
1772	FE 42	FE740-PJ	Charging Flow to Loop A	GOOD (ZERO FLOW)		0.0	1.400+0 kg/s	2.268+2 1.620+0
1773	FE 43	FE750-PJ	Charging Flow to Loop B	GOOD (ZERO FLOW)		0.0	4.000+1 kg/s	6.480+3 1.620+0
1774	FE 44	FE760-PH	PH Delivery(High)	GOOD		0.0	1.500+0 kg/s	2.415+2 1.610+0
1775	FE 45	FE770-PH	HPI Flow to Loop A	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1776	FE 46	FE780-PH	HPI Flow to Loop B(High)	QUESTIONABLE (ZERO FLOW)		0.0	5.000+1 kg/s	8.100+3 1.620+0
1777	FE 47	FE790-PJ	Charging Flow to CLA	GOOD (ZERO FLOW)		0.0	5.000+1 kg/s	8.100+3 1.620+0
1778	FE 48	FE820-PL	RHR Outlet(High)	GOOD		0.0	1.500+1 kg/s	3.435+1 2.290+0
1779	FE 49	FE830-PL	LPI Flow to CLA(High)	GOOD		0.0	1.500+1 kg/s	3.435+1 2.290+0
1780	FE 50	FE840-PL	LPI Flow to CLB(High)	QUESTIONABLE		0.0	1.500+1 kg/s	3.435+1 2.290+0
1781	FE 51	FE900-EX	N2 Gas	UNUSED		0.0	1.500+1 kg/s	2.430+3 1.620+0
1782	FE 52	FE011-HLA	Hot Leg A Reflux Flow	UNUSED		0.0	2.500+0 kg/s	5.025+2 2.010+0
1783	FE 53	FE151-HLB	Hot Leg B Reflux Flow	UNUSED		0.0	2.500+0 kg/s	5.025+2 2.010+0
1784	FE 54	FE320-PV	PV Auto Bleed	QUESTIONABLE (ZERO FLOW)		0.0	1.000+0 kg/s	1.620+2 1.620+0
1785	FE 55	FE781-PH	HPI Flow to HLB	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1786	FE 56	FE782-PH	HPI Flow to LSB	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1787	FE 57	FE783-PH	HPI Flow to CLB	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1788	FE 58	FE784-PH	HPI Flow to PV Bottom	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1789	FE 59	FE785-PH	HPI Flow to PV Top	QUESTIONABLE (ZERO FLOW)		0.0	3.000+0 kg/s	4.860+2 1.620+0
1790	FE 60	FE831-PL	LPI Flow to MLA	QUESTIONABLE (ZERO FLOW)		0.0	1.200+1 kg/s	1.944+1 1.620+0
1791	FE 61	FE841-PL	LPI Flow to HLB	QUESTIONABLE (ZERO FLOW)		0.0	1.200+1 kg/s	1.944+1 1.620+0
1792	FE 62	FE010B-HLA	HLA Leakage(Negative)	GOOD		0.0	4.000+1 kg/s	1.280+3 3.200+1
1793	FE 63	FE150B-HLB	HLB Leakage(Negative)	GOOD		0.0	4.000+1 kg/s	1.280+3 3.200+1
1794	FE 64	FE280C-PR	PR Surge Line(Low)	QUESTIONABLE		0.0	1.000+1 kg/s	3.200+2 3.200+1
1795	FE 65	FE440B-SGA	SGA Main Steam Line(Low)	QUESTIONABLE		0.0	1.000+0 kg/s	3.200+3 3.200+1
1796	FE 66	FE451-SGA	SGA Turbine Bypass Flow	QUESTIONABLE		0.0	2.000+1 kg/s	6.400+2 3.200+1
1797	FE 67	FE480B-SGB	SGB Main Steam Line(Low)	QUESTIONABLE		0.0	1.000+0 kg/s	3.200+3 3.200+1
1798	FE 68	FE491-SGB	SGB Turbine Bypass Flow	QUESTIONABLE		0.0	2.000+1 kg/s	6.400+2 3.200+1
1799	FE 69	FE515-JC	JC Bleed	GOOD (ZERO FLOW)		0.0	1.500+0 kg/s	2.430+2 1.620+0
1800	FE 70	FE570-PAA	Auxiliary Feedwater A(High)	GOOD (ZERO FLOW)		0.0	1.500+0 kg/s	2.415+2 1.610+0
1801	FE 71	FE570-PAA	Auxiliary Feedwater A(Low)	GOOD (ZERO FLOW)		0.0	1.000+0 kg/s	1.620+2 1.620+0
1802	FE 72	FE510B-PAB	Auxiliary Feedwater B(Low)	GOOD (ZERO FLOW)		0.0	1.000+0 kg/s	1.610+2 1.610+0
1803	FE 73	FE730-PJ	PJ Delivery(Low)	QUESTIONABLE		0.0	1.277+0 kg/s	2.056+2 1.610+0
1804	FE 74	FE740-PJ	Charging Flow to A(Low)	GOOD (ZERO FLOW)		0.0	1.277+0 kg/s	2.056+2 1.610+0
1805	FE 75	FE750-PJ	Charging Flow to B(Low)	GOOD (ZERO FLOW)		0.0	2.047+1 kg/s	3.296+3 1.610+0
1806	FE 76	FE760B-PH	PH Delivery(Low)	GOOD		0.0	1.000+0 kg/s	1.620+2 1.620+0
1807	FE 77	FE760B-PH	HPI Flow to Loop B(Low)	GOOD (ZERO FLOW)		0.0	3.000+1 kg/s	4.830+3 1.610+0
1808	FE 78	FE820B-PL	RHR Outlet(Low)	GOOD		0.0	5.000+0 kg/s	1.140+1 2.280+0
1809	FE 79	FE830B-PL	LPI Flow to CLA(Low)	GOOD		0.0	5.000+0 kg/s	1.140+1 2.280+0
1810	FE 80	FE840B-PL	LPI Flow to CLB(Low)	GOOD		0.0	3.000+0 kg/s	6.400+2 2.280+0
1811	FE 81	PE561-BU	BU No.1 Venturi	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1812	FE 82	PE561-BU	BU No.2 Venturi	UNUSED		0.0	2.000+1 MPa	6.400+2 3.200+1
1881	PE 3	PE010-SGA	SGA Inlet Plenum	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1884	PE 4	PE200-LSA	PCA Suction	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1885	PE 5	PE030-CLA	PCA Delivery	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1886	PE 6	PE150-SGB	SGB Inlet Plenum	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1887	PE 7	PE160-LSB	PCB Suction	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1888	PE 8	PE170-CLB	PCB Delivery	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1889	PE 9	PE200-PV	PV Upper Head	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1890	PE 10	PE280A-PY	PV Upper Plenum(High)	GOOD		0.0	5.000+0 MPa	1.600+2 3.200+1
1891	PE 11	PE280B-PY	PV Upper Plenum(Low)	GOOD		0.0	5.000+0 MPa	1.600+2 3.200+1
1892	PE 12	PE270-PV	PV Lower Plenum	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1893	PE 13	PE300A-PR	PR (High Range)	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1894	PE 14	PE300B-PR	PR (Low Range)	GOOD		0.0	5.000+0 MPa	1.600+2 3.200+1
1895	PE 15	PE310-PR	PR RV Venturi Upstream	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1896	PE 16	PE320-PR	PR RV Venturi Downstream	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1897	PE 17	PE330-PR	PR SV Venturi Upstream	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1898	PE 18	PE340-PR	PR SV Venturi Downstream	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1899	PE 19	PE350-SGA	SGA Steam Dome	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1900	PE 20	PE440-SGA	SGA Steam Line	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1901	PE 21	PE450-SGB	SGB Steam Dome	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1902	PE 22	PE460-SGB	SGB Steam Line	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1903	PE 23	PE470-SH	Steam Header	GOOD		0.0	1.000+1 MPa	3.200+2 3.200+1
1904	PE 24	PE480-JC	Jet Condenser	GOOD		0.0	1.000+1 MPa	3.200+3 3.200+1
1905	PE 25	PE610-ST	Suppression Tank	GOOD		0.0	1.000+0 MPa	6.400+2 3.200+1
1906	PE 26	PE560-BU	BU No.1 Orifice Upstream	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1
1907	PE 27	PE570-BU	BU No.1 Orifice Downstream	GOOD		0.0	2.000+1 MPa	6.400+2 3.200+1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)			LSTF EXP. SB-HL-04 (SH4)	RCV XXX	RCV YYY	DQV SH4	EXP. DATE 88-03-29 PAGE 19		
IEC REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX					RUN DATE 90-12-17		
SEQ NO.	FUNC ID.	TAG NAME	LOCATION		DATA QUALITY		SPAN LO	UNIT HI	UNCERTAINTY ABS. REL.(%)
1908 PE 28	PE580-BU	BU No.2 Orifice Upstream		UNUSED			0.0	2.000+1 MPa	6.400-2 3.200-1
1909 PE 29	PE590-BU	BU No.2 Orifice Downstream		UNUSED			0.0	2.000+1 MPa	6.400-2 3.200-1
1910 PE 30	PE600-ST	Blowdown Piping	GOOD				0.0	2.000+0 MPa	6.400-3 3.200-1
1911 PE 31	PE630-ACC	Cold Acc Tank	GOOD				0.0	1.000+1 MPa	3.200-2 3.200-1
1912 PE 32	PE660-ACH	Hot Acc Tank	GOOD				0.0	1.000+1 MPa	3.200-2 3.200-1
1914 PE 34	PE900-SX	X2 Gas		UNUSED			0.0	2.000+1 MPa	6.400-2 3.200-1
1915 PE 35	PE011-HLA	HLA Spool Piece	GOOD				0.0	2.000+1 MPa	6.410-2 3.205-1
1916 PE 36	PE071-CLA	CLA Spool Piece	GOOD				0.0	2.000+1 MPa	6.410-2 3.205-1
1917 PE 37	PE151-HLB	HLB Spool Piece	GOOD				0.0	2.000+1 MPa	6.410-2 3.205-1
1918 PE 38	PE211-CLB	CLB Spool Piece	GOOD				0.0	2.000+1 MPa	6.410-2 3.205-1
1919 PE 39	PE291-PR	PR Relief Valve S.P.	GOOD				0.0	2.000+1 MPa	0.0 0.0
1920 PE 40	PE301-PR	PR Safety Valve Line	GOOD				0.0	2.000+1 MPa	6.400-2 3.200-1
1921 PE 41	PE311-PR	PV-PR Vent Line	GOOD				0.0	2.000+1 MPa	6.400-2 3.200-1
1923 PE 43	PE571-BU	BU No.1 S.P.	GOOD				0.0	2.000+1 MPa	6.400-2 3.200-1
1924 PE 44	PE591-BU	BU No.2 S.P.		UNUSED			0.0	2.000+1 MPa	6.400-2 3.200-1
1925 PE 45	PE451-SGA	SGA Safety Valve Line S.P.	GOOD				0.0	1.000+1 MPa	0.0 0.0
1926 PE 46	PE820-RHR	PL Delivery	GOOD				0.0	2.000+1 MPa	6.400-2 3.200-1
1981 MI 1	RE010-PCA	PCA (Rotation Speed)	GOOD	1Hz = 30rPm.			0.0	7.000+1 Hz	0.0 0.0
1982 MI 2	RE150-PCB	PCB (Rotation Speed)	GOOD	1Hz = 30rPm.			0.0	7.000+1 Hz	0.0 0.0
1983 MI 3	OPE270-PR	PR Spray (HCV270)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1984 MI 4	OPE300A-PR	PR Pressure (PCV300A)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1985 MI 5	OPE430-SGA	SGA Feedwater (FCV430)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1986 MI 6	OPE470-SGB	SGB Feedwater (FCV470)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1987 MI 7	OPE440-SGA	Turbine Bypass (FCV440)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1988 MI 8	OPE510-SH	Steam Flow (FCV510)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1989 MI 9	OPE820-PL	RHR Flow (FCV820)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1990 MI 10	OPE840-PL	RHR Temperature (TCV840)	GOOD				0.0	1.000+2 %	5.400-1 5.400-1
1991 MI 11	VBE010-PCA	PCA (Vibration)	GOOD				0.0	2.000+2 um	1.420+0 7.100-1
1992 MI 12	VBE150-PCB	PCB (Vibration)	GOOD				0.0	2.000+2 um	1.420+0 7.100-1
1993 MI 13	TRE010-PCA	PCA (Torque)		BAD			0.0	1.000+2 Nm	4.020-1 4.020-1
1994 MI 14	TQE150-PCB	PCB (Torque)		BAD			0.0	1.000+2 Nm	4.020-1 4.020-1
1995 MI 15	AEO10-PCA	PCA (Electric Current)	GOOD				0.0	1.500+2 A	7.500-1 3.000-1
1996 MI 16	AE150-PCB	PCB (Electric Current)	GOOD				0.0	1.500+2 A	7.500-1 5.000-1
1997 MI 17	WE270A-T	Total Core Power	GOOD				0.0	1.600+1 MW	1.152-1 7.200-1
1998 MI 18	WE270B-N	Middle Heat Flux Region	GOOD				0.0	2.000+0 MW	1.440-2 7.200-1
1999 MI 19	WE270C-M1	High Heat Flux Region	GOOD				0.0	4.000+0 MW	2.880-2 7.200-1
2000 MI 20	WE270D-N2	High Heat Flux Region	GOOD				0.0	4.000+0 MW	2.880-2 7.200-1
2001 MI 21	WE270E-L1	Low Heat Flux Region	GOOD				0.0	2.000+0 MW	1.440-2 7.200-1
2002 MI 22	WE270F-L2	Low Heat Flux Region	GOOD				0.0	2.000+0 MW	1.440-2 7.200-1
2003 MI 23	WE270G-L3	Low Heat Flux Region	GOOD				0.0	2.000+0 MW	1.440-2 7.200-1
2004 MI 24	WE280A-PR	PR Proportional Heater	GOOD				0.0	1.000+1 kW	1.500-1 1.500+0
2005 MI 25	WE280B-PR	PR Base Heater	GOOD				0.0	1.500+2 kW	2.250+0 1.500+0
2006 MI 26	WE010-PCA	PCA	GOOD				0.0	3.000+1 kW	4.500-1 1.500+0
2007 MI 27	WE150-PCB	PCB	GOOD				0.0	3.000+1 kW	4.500-1 1.500+0
2009 MI 29	WE020-HLA	HLA		UNUSED			0.0	5.000+0 kW	7.500-2 1.500+0
2010 MI 30	WE050-LSA	LSA		UNUSED			0.0	7.500+0 kW	1.125-1 1.500+0
2011 MI 31	WE040-CLA	CLA		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2012 MI 32	WE160-HLB	HLB		UNUSED			0.0	5.000+0 kW	1.125-1 1.500+0
2013 MI 33	WE170-LSB	LSB		UNUSED			0.0	7.500+0 kW	1.125-1 1.500+0
2014 MI 34	WE180-CLB	CLB		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2015 MI 35	WE271A-PV	PV		UNUSED			0.0	1.500+1 kW	2.250-1 1.500+0
2016 MI 36	WE271B-PV	PV		UNUSED			0.0	1.500+1 kW	2.250-1 1.500+0
2017 MI 37	WE271C-PV	PV		UNUSED			0.0	1.500+1 kW	2.250-1 1.500+0
2018 MI 38	WE271D-PV	PV		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2019 MI 39	WE430A-SGA	SGA		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2020 MI 40	WE430B-SGA	SGA		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2021 MI 41	WE430C-SGA	SGA		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2022 MI 42	WE430D-SGA	SGA		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2023 MI 43	WE440A-SGA	SGA Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2024 MI 44	WE440B-SGA	SGA Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2025 MI 45	WE440C-SGA	SGA Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2026 MI 46	WE440D-SGA	SGA Downcomer		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2027 MI 47	WE290-PR	PR Surge Line		UNUSED			0.0	7.500+0 kW	1.125-1 1.500+0
2028 MI 48	WE300-PR	PR Spray Line		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2029 MI 49	WE450A-SGB	SGB		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2030 MI 50	WE450B-SGB	SGB		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2031 MI 51	WE450C-SGB	SGB		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2032 MI 52	WE450D-SGB	SGB		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2033 MI 53	WE460A-SGB	SGB Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2034 MI 54	WE460B-SGB	SGB Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2035 MI 55	WE460C-SGB	SGB Downcomer		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2036 MI 56	WE460D-SGB	SGB Downcomer		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2037 MI 57	WE650A-ACC	Cold ACC Line		UNUSED			0.0	7.500+0 kW	1.125-1 1.500+0
2038 MI 58	WE650B-ACC	Cold ACC Line		UNUSED			0.0	4.000+0 kW	6.000-2 1.500+0
2039 MI 59	WE660A-ACH	Hot Acc Line		UNUSED			0.0	2.000+0 kW	3.000-2 1.500+0
2040 MI 60	WE660B-ACH	Hot Acc Line		UNUSED			0.0	1.500+1 kW	2.250-1 1.500+0
2066 MI 38	VE010-HLA	HLA Pilot Tube		SEE RC 93			0.0	3.000+1 V	4.500-1 1.500+0
2072 MI 92	VE-M-006-DC	PV Downcomer North		BAD				V	
2073 MI 93	VE-S-006-DC	PV Downcomer South		BAD				V	
2074 MI 94	VE-E-006-DC	PV Downcomer East		BAD				V	
2075 MI 95	VE-W-006-DC	PV Downcomer West		BAD				V	
2078 MI 98	VE030A-CLA	CLA Pilot Tube		SEE RC 88				V	
2079 MI 99	VE030B-CLA	CLA Pilot Tube		SEE RC 89				V	
2080 MI 100	VE030J-CLA	CLA Pilot Tube		SEE RC 90				V	
2081 MI 101	VE010A-HLA	HLA Pilot Tube		SEE RC 91				V	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSIF EXP. SB-HL-04 (SH4)		EXP. DATE 88-03-29 PAGE 20				
LCF REV DATE 88-06-23		ROF DATE 88-09-19	LCV XXX	REV YYY	DQR SH4	RUN DATE 90-12-17				
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY		
						LD	HI	ABS. REL.(%)		
2082	MI 102	VE0108-HLA	HLA Pilot Tube	SEE RC 92				V		
2083	MI 103	VE020A-LSA	LSA Pilot Tube	SEE RC 94				V		
2084	MI 104	VE020B-LSA	LSA Pilot Tube	SEE RC 95				V		
2085	MI 105	VE020-C-LSA	LSA Pilot Tube	SEE RC 96				V		
2181	LE 1	LE270-PV	PV	GOOD		0.0	1.100+1	m	3.520-2 3.200-1	
2182	LE 2	LE280-PR	PR	GOOD		0.0	5.000+0	m	1.600-2 3.200-1	
2183	LE 3	LE430-SGA	SGA Wide Range	GOOD		0.0	1.700+1	m	5.440-2 3.200-1	
2184	LE 4	LE440-SGA	SGA Narrow Range	GOOD		0.0	6.000+0	m	1.920-2 3.200-1	
2185	LE 5	LE441-SGA	SGA Boiling Section	GOOD		0.0	1.100+1	m	3.520-2 3.200-1	
2186	LE 6	LE450-SGB	SGB Wide Range	GOOD		0.0	1.700+1	m	5.440-2 3.200-1	
2187	LE 7	LE460-SGB	SGB Narrow Range	GOOD		0.0	6.000+0	m	1.920-2 3.200-1	
2188	LE 8	LE461-SGB	SGB Boiling Section	GOOD		0.0	1.100+1	m	3.520-2 3.200-1	
2189	LE 9	LE470-JC	JC	GOOD		0.0	5.500+0	m	1.760-2 3.200-1	
2190	LE 10	LE560-ST	ST Wide Range	GOOD		0.0	1.200+1	m	3.840-2 3.200-1	
2191	LE 11	LE570-ST	ST Low Level	GOOD		0.0	4.000+0	m	1.280-2 3.200-1	
2192	LE 12	LE580-ST	ST Middle Level	GOOD		0.0	4.000+0	m	1.280-2 3.200-1	
2193	LE 13	LE590-ST	ST High Level	GOOD		0.0	4.000+0	m	1.280-2 3.200-1	
2194	LE 14	LE650-ACC	Cold Acc Tank	GOOD		0.0	7.000+0	m	2.240-2 3.200-1	
2195	LE 15	LE660-ACH	Hot Acc Tank	GOOD		0.0	7.000+0	m	2.240-2 3.200-1	
2196	LE 16	LE820-PL	RHR	GOOD		0.0	5.000+0	m	1.600-2 3.200-1	
2197	LE 17	LE830-RWST	RWST	GOOD		0.0	1.000+1	m	3.200-2 3.200-1	
2198	LE 18	LE442-SGA	SGA Downcomer	GOOD		0.0	1.200+1	m	3.840-2 3.200-1	
2199	LE 19	LE462-SGB	SGB Downcomer	GOOD		0.0	1.200+1	m	3.840-2 3.200-1	
2251	DP 1	OPE010-HLA	Upper Plenum - HLA Nozzle	GOOD		-4.000+1	4.000+1	kPa	2.560-1 3.200-1	
2252	DP 2	OPE020-HLA	HLA Nozzle - HLA Break	GOOD		-4.000+1	4.000+1	kPa	2.560-1 3.200-1	
2253	DP 3	OPE030A-HLA	PR Surge Line(High)	BAD		-1.000+1	1.900+0	kPa	6.400-3 3.200-1	
2254	DP 4	OPE040-HLA	HLA Break - SGA Inlet	GOOD		-4.000+1	4.000+1	kPa	2.560-1 3.200-1	
2255	DP 5	OPE050A-SGA	SGA Inlet - Tube 3 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2256	DP 6	OPE050B-SGA	SGA Inlet - Tube 2 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2257	DP 7	OPE030C-SGA	SGA Inlet - Tube 1 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2258	DP 8	OPE050D-SGA	SGA Inlet - Tube 4 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2259	DP 9	OPE050E-SGA	SGA Inlet - Tube 5 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2260	DP 10	OPE050F-SGA	SGA Inlet - Tube 6 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2261	DP 11	OPE060A-SGA	SGA Outlet - Tube 3 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2262	DP 12	OPE060B-SGA	SGA Outlet - Tube 2 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2263	DP 13	OPE060C-SGA	SGA Outlet - Tube 1 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2264	DP 14	OPE060D-SGA	SGA Outlet - Tube 4 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2265	DP 15	OPE060E-SGA	SGA Outlet - Tube 5 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2266	DP 16	OPE060F-SGA	SGA Outlet - Tube 6 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2267	DP 17	OPE070-LSA	SGA Outlet - LSA Bottom	GOOD		-8.000+1	8.000+1	kPa	0.0 0.0	
2268	DP 18	OPE080-LSA	LSA Bottom - PCA Suction	GOOD		-5.000+1	5.000+1	kPa	0.0 0.0	
2269	DP 19	OPE090-PCA	PCA Suction - Delivery	GOOD		-5.000+1	5.000+1	kPa	0.0 0.0	
2270	DP 20	OPE100-CLA	PR Spray Line	GOOD		-2.000+2	2.000+2	kPa	0.0 0.0	
2271	DP 21	OPE110-CLA	PCA Delivery - CLA Break	GOOD		-5.000+1	5.000+1	kPa	0.0 0.0	
2272	DP 22	OPE120-CLA	CLA Break - CLA Nozzle	GOOD		-5.000+1	5.000+1	kPa	0.0 0.0	
2273	DP 23	OPE130-CLA	CLA Nozzle - Downcomer	GOOD		-5.000+1	5.000+1	kPa	0.0 0.0	
2274	DP 24	OPE140-HLA	Upper Plenum - Downcomer	GOOD		-2.000+1	2.000+1	kPa	1.280-1 3.200-1	
2275	DP 25	OPE150-HLB	Upper Plenum - HLB Nozzle	GOOD		-3.000+1	3.000+1	kPa	1.920-1 3.200-1	
2276	DP 26	OPE160-HLB	HLB Nozzle - HLB Break	GOOD		-3.000+1	3.000+1	kPa	1.920-1 3.200-1	
2277	DP 27	OPE170-HLB	HLB Break - SGB Break	GOOD		-3.000+1	3.000+1	kPa	1.920-1 3.200-1	
2278	DP 28	OPE180-HLB	SGB Break - SGB Inlet	GOOD		-3.000+1	3.000+1	kPa	1.920-1 3.200-1	
2279	DP 29	OPE190A-SGB	SGB Inlet - Tube 3 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2280	DP 30	OPE190B-SGB	SGB Inlet - Tube 2 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2281	DP 31	OPE190C-SGB	SGB Inlet - Tube 1 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2282	DP 32	OPE190D-SGB	SGB Inlet - Tube 4 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2283	DP 33	OPE190E-SGB	SGB Inlet - Tube 5 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2284	DP 34	OPE190F-SGB	SGB Inlet - Tube 6 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2285	DP 35	OPE200A-SGB	SGB Outlet - Tube 3 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2286	DP 36	OPE200B-SGB	SGB Outlet - Tube 2 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2287	DP 37	OPE200C-SGB	SGB Outlet - Tube 1 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2288	DP 38	OPE200D-SGB	SGB Outlet - Tube 4 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2289	DP 39	OPE200E-SGB	SGB Outlet - Tube 5 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2290	DP 40	OPE200F-SGB	SGB Outlet - Tube 6 Top	GOOD		-1.500+2	5.000+1	kPa	6.400-1 3.200-1	
2291	DP 41	OPE210-LSB	LSB Bottom - LSB Bottom	GOOD		-8.000+1	8.000+1	kPa	5.120-1 3.200-1	
2292	DP 42	OPE220-LSB	LSB Bottom - PCB Suction	GOOD		-5.000+1	5.000+1	kPa	3.200-1 3.200-1	
2293	DP 43	OPE240-CLB	PCB Delivery - CLB Break	GOOD		-2.000+1	2.000+1	kPa	1.280-1 3.200-1	
2294	DP 45	OPE250-CLB	CLB Break - CLB Nozzle	GOOD		-2.000+1	2.000+1	kPa	1.280-1 3.200-1	
2295	DP 46	OPE260-CLB	CLB Nozzle - Downcomer	GOOD		-2.000+1	2.000+1	kPa	1.280-1 3.200-1	
2296	DP 47	OPE270-PV	PV Bottom - Top	GOOD		-1.000+2	4.000+2	kPa	1.600+0 3.200-1	
2297	DP 48	OPE280-PV	PV Lower Plenum	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2298	DP 49	OPE290-PV	Lower Core Support Plate	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2300	DP 50	OPE300-PV	Core(Elevation -35 - 3945)	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2301	DP 51	OPE320-PV	Upper Plenum	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2302	DP 52	OPE330-PV	Upper Head	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2303	DP 53	OPE350-PV	Upper Core Support Plate	GOOD		-1.000+2	1.000+2	kPa	6.400-1 3.200-1	
2304	DP 54	OPE350A-PV	Guide Tube Top Orifice	GOOD		-1.000+2	1.000+2	kPa	6.400-1 3.200-1	
2305	DP 55	OPE350B-PV	Guide Tube Top Orifice	GOOD		-1.000+2	1.000+2	kPa	6.400-1 3.200-1	
2306	DP 56	OPE360-PV	PV Downcomer	GOOD		-1.000+2	3.000+2	kPa	1.280+0 3.200-1	
2307	DP 57	OPE370-PV	Lower Downcomer	GOOD		-5.000+1	1.500+2	kPa	6.400-1 3.200-1	
2308	DP 58	OPE380-PV	Upper Downcomer	GOOD		-5.000+1	1.500+2	kPa	6.400-1 3.200-1	
2309	DP 59	OPE390-PV	Simulated Check Valve A	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2310	DP 60	OPE400-PV	Simulated Check Valve B	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2311	DP 61	OPE410-PV	Check Valve Control	GOOD		-5.000+1	1.000+2	kPa	4.800-1 3.200-1	
2312	DP 62	OPE430-PV	Upper Head - Downcomer	GOOD		-1.000+2	1.000+2	kPa	6.400-1 3.200-1	
2313	DP 63	OPE431-PV	Upper Head	GOOD		-1.000+2	1.000+2	kPa	6.400-1 3.200-1	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR) LSTF EXP. SP-HL-D4 (SH4)					EXP. DATE 88-03-29 PAGE 21					
ICF REV DATE 88-06-23		RDF DATE 88-09-19		LCV XXX	RCV YYY	DQV SH4	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY			SPAN LIMITS	UNIT	UNCERTAINTY	
				GOOD	QUESTIONABLE		LO	HI	ABS. REL.(%)	
2314	DP 64	DPE560A-BU	FES50A (BU 1 High)		QUESTIONABLE		0.0	2.450+2	kPa	7.105-1 2.300-1
2315	DP 65	DPE560B-BU	FES560B (BU 1 Low)	GOOD	QUESTIONABLE		0.0	5.000+0	kPa	1.450-2 2.300-1
2316	DP 66	DPE570-BU	BU No.1 Venturi		QUESTIONABLE		0.0	5.000+2	kPa	1.600+0 3.200-1
2317	DP 67	DPE580A-BU	FES570A (BU 2 High)		UNUSED		0.0	1.000+2	kPa	3.200-1 3.200-1
2318	DP 68	DPE580B-BU	FES570B (BU 2 Low)		UNUSED		0.0	5.000+0	kPa	1.600-2 3.200-1
2319	DP 69	DPE590-BU	BU No.2 Venturi		UNUSED		0.0	5.000+2	kPa	1.500+0 3.200-1
2320	DP 70	DPE630B-HLA	PR Surge Line(Low)	GOOD			-3.000+2	3.000+2	kPa	1.920+0 3.200-1
2321	DP 71	DPE072-LSA	LSA (SG Side)	GOOD			-1.000+1	3.500+1	kPa	1.440-1 3.200-1
2322	DP 72	DPE073-LSA	LSA (SG Side)	GOOD			-1.000+1	1.000+1	kPa	6.400-2 3.200-1
2323	DP 73	DPE074-LSA	LSA (SG Side)	GOOD			-1.000+1	1.000+1	kPa	6.400-2 3.200-1
2324	DP 74	DPE075-LSA	LSA (SG Side)	GOOD			-1.000+1	1.000+1	kPa	6.400-2 3.200-1
2325	DP 75	DPE076-LSA	LSA (SG Side)		QUESTIONABLE		-1.000+1	1.000+1	kPa	6.400-2 3.200-1
2326	DP 76	DPE212-LSB	LSB (SG Side)	GOOD			-1.000+1	3.500+1	kPa	0.0 0.0
2327	DP 77	DPE213-LSB	LSB (SG Side)	GOOD			-1.000+1	1.000+1	kPa	0.0 0.0
2328	DP 78	DPE214-LSB	LSB (SG Side)	GOOD			-1.000+1	1.000+1	kPa	0.0 0.0
2329	DP 79	DPE215-LSB	LSB (SG Side)	GOOD			-1.000+1	1.000+1	kPa	0.0 0.0
2330	DP 80	DPE216-LSB	LSB (SG Side)		QUESTIONABLE		-1.000+1	1.000+1	kPa	0.0 0.0
2331	DP 81	DPE430-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2332	DP 82	DPE431-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2333	DP 83	DPE432-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2334	DP 84	DPE433-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2335	DP 85	DPE434-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2336	DP 86	DPE435-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2337	DP 87	DPE436-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2338	DP 88	DPE437-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2339	DP 89	DPE438-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2340	DP 90	DPE439-SGA	SGA Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2341	DP 91	DPE440-SGA	SGA Boiling Section	GOOD			-4.000+1	0.0	kPa	0.0 0.0
2342	DP 92	DPE450-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2343	DP 93	DPE451-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2344	DP 94	DPE452-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2345	DP 95	DPE453-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2346	DP 96	DPE454-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2347	DP 97	DPE455-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2348	DP 98	DPE456-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2349	DP 99	DPE457-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2350	DP 100	DPE458-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2351	DP 101	DPE459-SGB	SGB Boiling Section	GOOD			-3.000+1	0.0	kPa	0.0 0.0
2352	DP 102	DPE460-SGB	SGB Boiling Section	GOOD			-4.000+1	0.0	kPa	0.0 0.0
2353	DP 103	DPE011-HLA	HLA Spool Piece		QUESTIONABLE		-1.000+1	1.000+1	kPa	6.410-2 3.205-1
2354	DP 104	DPE071-CLB	CLB Spool Piece		QUESTIONABLE		-1.000+1	1.000+1	kPa	6.410-2 3.205-1
2355	DP 105	DPE151-HLB	HLB Spool Piece		QUESTIONABLE		-1.000+1	1.000+1	kPa	6.410-2 3.205-1
2356	DP 106	DPE211-CLB	CLB Spool Piece		QUESTIONABLE		-1.000+1	5.000+1	kPa	6.410-2 3.205-1
2357	DP 107	DPE571-BU	BU No.1 Spool Piece		QUESTIONABLE		0.0	2.000+2	kPa	6.410-1 3.205-1
2358	DP 108	DPE591-BU	BU No.2 Spool Piece		UNUSED		-1.000+2	1.000+2	kPa	0.0 0.0
2359	DP 109	DPE041-PR	PR Diff. Press.	GOOD			0.0	6.118+0	kPa	0.0 0.0
2360	DP 110	DPE042-PR	PR Diff. Press.	GOOD			0.0	7.340+0	kPa	0.0 0.0
2361	DP 111	DPE043-PR	PR Diff. Press.	GOOD			0.0	3.570+0	kPa	0.0 0.0
2362	DP 112	DPE044-PR	PR Diff. Press.	GOOD			0.0	3.670+0	kPa	0.0 0.0
2363	DP 113	DPE045-PR	PR Diff. Press.	GOOD			0.0	1.101+1	kPa	0.0 0.0
2364	DP 114	DPE046-PR	PR Diff. Press.	GOOD			0.0	7.342+0	kPa	0.0 0.0
2365	DP 115	DPE101-PR	PR-CLB Diff. Press.	GOOD			-2.000+2	2.000+2	kPa	0.0 0.0
2366	DP 116	DPE055A-SGA	SGA I,P-O,P (High)	GOOD			-3.000+1	3.000+1	kPa	1.740-1 2.900-1
2367	DP 117	DPE055B-SGA	SGA I,P-O,P (Low)	GOOD			-3.000+0	3.000+0	kPa	1.740-2 2.900-1
2368	DP 118	DPE195A-SGB	SGB I,P-O,P (High)	GOOD			-3.000+1	3.000+1	kPa	1.740-1 2.900-1
2369	DP 119	DPE195B-SGB	SGB I,P-O,P (Low)	GOOD			-3.000+0	3.000+0	kPa	1.740-2 2.900-1
2370	DP 120	DPE056-SGA	SGA Plenum Diff. Press.	GOOD		UNUSED	-4.000+1	4.000+1	kPa	2.560-1 3.200-1
2371	DP 121	DPE057-SGA	Primary-Secondary		UNUSED		-1.000+0	1.000+0	kPa	0.0 0.0
2372	DP 122	DPE196-SGB	SGB Plenum Diff. Press.	GOOD			-4.000+1	4.000+1	kPa	2.560-1 3.200-1
2373	DP 123	DPE197-SGB	Primary-Secondary		UNUSED		-1.000+0	1.000+0	kPa	0.0 0.0
2451	MF 1	MFE011A-HLA	HLA Spool Piece Top	SEE RC 1						V
2452	MF 2	MFE011B-HLA	HLA Spool Piece Side	SEE RC 2						V
2453	MF 3	MFE011C-HLA	HLA Spool Piece Bottom	SEE RC 3						V
2454	MF 4	MFE051A-LSA	LSA Spool Piece East	SEE RC 4						V
2455	MF 5	MFE051B-LSA	LSA Spool Piece South	SEE RC 5						V
2456	MF 6	MFE051C-LSA	LSA Spool Piece West	SEE RC 6						V
2457	MF 7	MFE071A-CLB	CLB Spool Piece Top	SEE RC 7						V
2458	MF 8	MFE071B-CLB	CLB Spool Piece Side	SEE RC 8						V
2459	MF 9	MFE071C-CLB	CLB Spool Piece Bottom	SEE RC 9						V
2460	MF 10	MFE151A-HLB	HLB Spool Piece Top	SEE RC 10						V
2461	MF 11	MFE151B-HLB	HLB Spool Piece Side	SEE RC 11						V
2462	MF 12	MFE151C-HLB	HLB Spool Piece Bottom	SEE RC 12						V
2463	MF 13	MFE191A-LSB	LSB Spool Piece West	SEE RC 13						V
2464	MF 14	MFE191B-LSB	LSB Spool Piece North	SEE RC 14						V
2465	MF 15	MFE191C-LSB	LSB Spool Piece East	SEE RC 15						V
2466	MF 16	MFE211A-CLB	CLB Spool Piece Top	SEE RC 16						V
2467	MF 17	MFE211B-CLB	CLB Spool Piece Side	SEE RC 17						V
2468	MF 18	MFE211C-CLB	CLB Spool Piece Bottom	SEE RC 18						V
2469	MF 19	MFE291A-PR	PR Relief Valve Line(High)	SEE RC 82						V
2470	MF 20	MFE291B-PR	PR Relief Valve Line(Low)	SEE RC 83						V
2471	MF 21	MFE021-HLA	SGA Inlet	SEE RC 19						V
2472	MF 22	MFE051D-LSA	LSA Spool Piece North(Low)	SEE RC 20						V
2473	MF 23	MFE191A-HLB	SGB Inlet	SEE RC 21						V
2474	MF 24	MFE1910-LSB	LSB Spool Piece South(Low)	SEE RC 22						V
2475	MF 25	MFE-H-006-DC	PV Downcomer Off North	SEE RC 23	UNQUALIFIED					V

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)			LSTF EXP. SB-HL-04 (SH4)			EXP. DATE 88-03-29 PAGE 22					
ICF REV	DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DQV SHA	RUN DATE 90-12-17					
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY			
						L0	H1	ABS. REL.(%)			
2476	MF 26	MFE-S-006-DC	PV Downcomer DIT South	UNQUALIFIED				V			
2477	MF 27	MFE-E-006-DC	PV Downcomer DIT East	UNQUALIFIED				V			
2478	MF 28	MFE-V-006-DC	PV Downcomer DIT West	UNQUALIFIED				V			
2479	MF 29	MFEJ01B-PR	PR Safety Valve Line(Low)	SEE RC 84				V			
2480	MF 30	MFT161-HLB	SGA Inlet	UNUSED				V			
2483	MF 33	MFE591A-BU	BU No.2 S.P (High)	UNUSED				V			
2484	MF 34	MFE591B-BU	BU No.2 S.P (Low)	UNUSED				V			
2485	MF 35	MFE061A-LSA	LSA Spool Piece	SEE RC 76				V			
2486	MF 36	MFE061B-LSA	LSA Spool Piece	SEE RC 77				V			
2487	MF 37	MFE201A-LSB	LSB Spool Piece	SEE RC 78				V			
2488	MF 38	MFE201B-LSB	LSB Spool Piece	SEE RC 79				V			
2489	MF 39	MFE301A-PR	PR Safety Valve Line (High)	SEE RC 85				V			
2490	MF 40	MFT211A-CLB	CLB S.P Top	UNUSED				V			
2491	MF 41	MFT211B-CLB	CLB S.P Side	UNUSED				V			
2492	MF 42	MFT211C-CLB	CLB S.P Bottom	UNUSED				V			
2493	MF 43	MFE311A-PR	PV-PR Vent Line S.P Top	SEE RC 80				V			
2494	MF 44	MFE311B-PR	PV-PR Vent Line Bottom	SEE RC 81				V			
2495	MF 45	MFT011A-HLA	HLA S.P Top	UNUSED				V			
2496	MF 46	MFT011B-HLA	HLA S.P Side	UNUSED				V			
2497	MF 47	MFT011C-HLA	HLA S.P Bottom	UNUSED				V			
2498	MF 48	MFT021-HLA	SGA Inlet	UNUSED				V			
2499	MF 49	MFT051A-LSA	LSA Line North	UNUSED				V			
2500	MF 50	MFT051B-LSA	LSA Line South	UNUSED				V			
2501	MF 51	MFT051C-LSA	LSA Line East	UNUSED				V			
2502	MF 52	MFT051D-LSA	SGA Outlet	UNUSED				V			
2503	MF 53	MFT071A-CLA	CLA S.P Top	UNUSED				V			
2504	MF 54	MFT071B-CLA	CLA S.P Side	UNUSED				V			
2505	MF 55	MFT071C-CLA	CLA S.P Bottom	UNUSED				V			
2506	MF 56	MFT151A-HLB	HLB S.P Top	UNUSED				V			
2507	MF 57	MFT151B-HLB	HLB S.P Side	UNUSED				V			
2508	MF 58	MFT151C-HLB	HLB S.P Bottom	UNUSED				V			
2509	MF 59	MFT191A-LSB	LSB Line North	UNUSED				V			
2510	MF 60	MFT191B-LSB	LSB Line South	UNUSED				V			
2511	MF 61	MFT191C-LSB	LSB Line East	UNUSED				V			
2512	MF 62	MFT191D-LSB	SGB Outlet	UNUSED				V			
2531	DE 1	DE011A-HLA	HLA S.P Beam A	SEE RC 31				V			
2532	DE 2	DE011B-HLA	HLA S.P Beam B	SEE RC 32				V			
2533	DE 3	DE011C-HLA	HLA S.P Beam C	SEE RC 33				V			
2534	DE 4	DE051A-LSA	LSA S.P Beam A	SEE RC 56				V			
2535	DE 5	DE051B-LSA	LSA S.P Beam B	SEE RC 57				V			
2536	DE 6	DE051C-LSA	LSA S.P Beam C	SEE RC 58				V			
2537	DE 7	DE071A-CLA	CLA S.P Beam A	SEE RC 37				V			
2538	DE 8	DE071B-CLA	CLA S.P Beam B	SEE RC 38				V			
2539	DE 9	DE071C-CLA	CLA S.P Beam C	SEE RC 39				V			
2540	DE 10	DE151A-HLB	HLB S.P Beam A	SEE RC 34				V			
2541	DE 11	DE151B-HLB	HLB S.P Beam B	SEE RC 35				V			
2542	DE 12	DE151C-HLB	HLB S.P Beam C	SEE RC 36				V			
2543	DE 13	DE191A-LSB	LSB S.P Beam A	SEE RC 59				V			
2544	DE 14	DE191B-LSB	LSB S.P Beam B	SEE RC 60				V			
2545	DE 15	DE191C-LSB	LSB S.P Beam C	SEE RC 61				V			
2546	DE 16	DE211A-CLB	CLB S.P Beam A	SEE RC 40				V			
2547	DE 17	DE211B-CLB	CLB S.P Beam B	SEE RC 41				V			
2548	DE 18	DE211C-CLB	CLB S.P Beam C	SEE RC 42				V			
2549	DE 19	DE052-LSA	LSA Bottom	SEE RC 62				V			
2550	DE 20	DE192-LSB	PCB Suction	SEE RC 63				V			
2551	DE 21	DE281-PR	PR Surge Line	SEE RC 64				V			
2552	DE 22	DE291-PR	PR Relief Valve Line	SEE RC 65				V			
2553	DE 23	DE301-PR	PR Safety Valve Line	SEE RC 66				V			
2554	DE 24	DE311-PR	PV-PR Vent Line	SEE RC 67				V			
2555	DE 25	DE431-SGA	SGA Downcomer	SEE RC 68				V			
2556	DE 26	DE471-SOB	SGA Downcomer	SEE RC 69				V			
2557	DE 27	DE451A-SGA	SGA Safety S.P Upper Beam	SEE RC 70				V			
2558	DE 28	DE451B-SGA	SGA Safety S.P Center Beam	SEE RC 71				V			
2559	DE 29	DE451C-SGA	SGA Safety S.P Bottom Beam	SEE RC 72				V			
2560	DE 30	DE571A-BU	BU S.P Beam A	UNUSED				V			
2561	DE 31	DE571B-BU	BU S.P Beam B	UNUSED				V			
2562	DE 32	DE571C-BU	BU S.P Beam C	UNUSED				V			
2563	DE 33	DE591A-BU	BU S.P Beam A	SEE RC 73				V			
2564	DE 34	DE591B-BU	BU S.P Beam B	SEE RC 74				V			
2565	DE 35	DE591C-BU	BU S.P Beam C	SEE RC 75				V			
2611	CP 1	CPE-E-012C-DC	Downcomer E.L.-1.2m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2612	CP 2	CPE-E-006C-DC	Downcomer E.L.-0.6m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2613	CP 3	CPE-E000C-DC	Downcomer E.L.0.0m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2614	CP 4	CPE-E-004C-DC	Downcomer E.L.0.6m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2615	CP 5	CPE-E-012C-DC	Downcomer E.L.1.2m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2616	CP 6	CPE-E018C-DC	Downcomer E.L.1.8m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2617	CP 7	CPE-E-024C-DC	Downcomer E.L.2.4m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2618	CP 8	CPE-E-031C-DC	Downcomer E.L.3.1m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2619	CP 9	CPE-E-037C-DC	Downcomer E.L.3.7m,East	QUESTIONABLE		0.0	1.000+2	%	5.002-1	5.002-1	
2620	CP 10	CPE-E-044C-DC	Downcomer E.L.4.3m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2621	CP 11	CPE-E-049C-DC	Downcomer E.L.4.9m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2622	CP 12	CPE-E-055C-DC	Downcomer E.L.5.5m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	
2623	CP 13	CPE-E-061C-DC	Downcomer E.L.6.1m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2624	CP 14	CPE-E-067C-DC	Downcomer E.L.6.7m,East	GOOD		0.0	1.000+2	%	5.002-1	5.002-1	
2625	CP 15	CPE-E-068F-UH	Upper Head E.L.6.6m,East	BAD		0.0	1.000+2	%	5.002-1	5.002-1	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (CONT.)				LSTF EXP. SB-ML-04 (SHA)				EXP. DATE 88-03-29 PAGE 23			
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	ODV SHA	RUN DATE 90-12-17						
SEQ NO.	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LO	SPAN HI	UNIT	UNCERTAINTY ABS. REL.(%)			
2626	CP 15	CPE-W066F-UH	Upper Head E.L.6.6m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2627	CP 17	CPE-E069F-UH	Upper Head E.L.6.9m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2628	CP 18	CPE-W069F-UH	Upper Head E.L.6.9m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2629	CP 19	CPE-E072F-UH	Upper Head E.L.7.2m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2630	CP 20	CPE-W072F-UH	Upper Head E.L.7.2m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2631	CP 21	CPE-E075F-UH	Upper Head E.L.7.5m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2632	CP 22	CPE-W075F-UH	Upper Head E.L.7.5m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2633	CP 23	CPE-E078F-UH	Upper Head E.L.7.8m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2634	CP 24	CPE-W078F-UH	Upper Head E.L.7.8m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2635	CP 25	CPE-E081F-UH	Upper Head E.L.8.1m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2636	CP 26	CPE-W081F-UH	Upper Head E.L.8.1m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2637	CP 27	CPE-E066H-GT	Guide Tube E.L.6.6m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2638	CP 28	CPE-W066H-GT	Guide Tube E.L.6.6m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2639	CP 29	CPE-E072H-GT	Guide Tube E.L.7.2m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2640	CP 30	CPE-W072H-GT	Guide Tube E.L.7.2m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2641	CP 31	CPE-E078H-GT	Guide Tube E.L.7.8m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2642	CP 32	CPE-W078H-GT	Guide Tube E.L.7.8m,West	UNQUALIFIED	0.0	1.000+2	%	5.002-1	5.002-1		
2643	CP 33	CPE-E043H-GT	Guide Tube E.L.4.3m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2644	CP 34	CPE-W043H-GT	Guide Tube E.L.4.3m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2645	CP 35	CPE-E044H-GT	Guide Tube E.L.4.4m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2646	CP 36	CPE-W044H-GT	Guide Tube E.L.4.4m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2647	CP 37	CPE-E048H-GT	Guide Tube E.L.4.8m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2648	CP 38	CPE-W048H-GT	Guide Tube E.L.4.8m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2649	CP 39	CPE-E054H-GT	Guide Tube E.L.5.4m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2650	CP 40	CPE-W054H-GT	Guide Tube E.L.5.4m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2651	CP 41	CPE-E060H-GT	Guide Tube E.L.6.0m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2652	CP 42	CPE-W060H-GT	Guide Tube E.L.6.0m,West	UNQUALIFIED	0.0	1.000+2	%	5.002-1	5.002-1		
2653	CP 43	CPE-E042-UP	Upper Plenum E.L.4.2m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2654	CP 44	CPE-W042-UP	Upper Plenum E.L.4.2m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2655	CP 45	CPE-E043-UP	Upper Plenum E.L.4.3m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2656	CP 46	CPE-W043-UP	Upper Plenum E.L.4.3m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2657	CP 47	CPE-E044-UP	Upper Plenum E.L.4.4m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2658	CP 48	CPE-W044-UP	Upper Plenum E.L.4.4m,West	QUESTIONABLE	0.0	1.000+2	%	5.002-1	5.002-1		
2659	CP 49	CPE-E048-UP	Upper Plenum E.L.4.8m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2660	CP 50	CPE-W048-UP	Upper Plenum E.L.4.8m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2661	CP 51	CPE-E051-UP	Upper Plenum E.L.5.1m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2662	CP 52	CPE-W051-UP	Upper Plenum E.L.5.1m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2663	CP 53	CPE-E054-UP	Upper Plenum E.L.5.4m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2664	CP 54	CPE-W054-UP	Upper Plenum E.L.5.4m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2665	CP 55	CPE-E057-UP	Upper Plenum E.L.5.7m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2666	CP 56	CPE-W057-UP	Upper Plenum E.L.5.7m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2667	CP 57	CPE-E060-UP	Upper Plenum E.L.6.0m,East	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2668	CP 58	CPE-W060-UP	Upper Plenum E.L.6.0m,West	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2669	CP 59	CPE-C-021-LP	Lower Plenum E.L.-2.1m	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2670	CP 60	CPE-C-018-LP	Lower Plenum E.L.-1.8m	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2671	CP 61	CPE-C-015-LP	Lower Plenum E.L.-1.5m	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2672	CP 62	CPE-C-012-LP	Lower Plenum E.L.-1.2m	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2673	CP 63	CPE-C-009-LP	Lower Plenum E.L.-0.9m	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2674	CP 64	CPE-C-006-LP	Lower Plenum E.L.-0.6m	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2675	CP 65	CPE-C-005-LP	Lower Plenum E.L.-0.5m	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2676	CP 66	CPE-C-003-LP	Lower Plenum E.L.-0.3m	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2677	CP 67	CPE-C-002-LP	Lower Plenum E.L.-0.2m	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2678	CP 68	CPE-B08001	In-Core West Pos.1	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2679	CP 69	CPE-B08002	In-Core West Pos.2	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2680	CP 70	CPE-B08003	In-Core West Pos.3	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2681	CP 71	CPE-B08004	In-Core West Pos.4	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2682	CP 72	CPE-B08005	In-Core West Pos.5	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2683	CP 73	CPE-B08006	In-Core West Pos.6	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2684	CP 74	CPE-B08007	In-Core West Pos.7	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2685	CP 75	CPE-B08008	In-Core West Pos.8	QUESTIONABLE	0.0	1.000+2	%	5.002-1	5.002-1		
2686	CP 76	CPE-B08009	In-Core West Pos.9	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2687	CP 77	CPE-B15661	B15 Rad(6,6) Pos.1	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2688	CP 78	CPE-B15662	B15 Rad(6,6) Pos.2	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2689	CP 79	CPE-B15663	B15 Rad(6,6) Pos.3	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2690	CP 80	CPE-B15664	B15 Rad(6,6) Pos.4	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2691	CP 81	CPE-B15665	B15 Rad(6,6) Pos.5	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2692	CP 82	CPE-B15666	B15 Rad(6,6) Pos.6	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2693	CP 83	CPE-B15667	B15 Rad(6,6) Pos.7	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2694	CP 84	CPE-B15668	B15 Rad(6,6) Pos.8	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2695	CP 85	CPE-B15669	B15 Rad(6,6) Pos.9	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2696	CP 86	CPE-B04001	In-Core East Pos.1	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2697	CP 87	CPE-B04002	In-Core East Pos.2	QUESTIONABLE	0.0	1.000+2	%	5.002-1	5.002-1		
2698	CP 88	CPE-B04003	In-Core East Pos.3	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2699	CP 89	CPE-B04004	In-Core East Pos.4	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2700	CP 90	CPE-B04005	In-Core East Pos.5	QUESTIONABLE	0.0	1.000+2	%	5.002-1	5.002-1		
2701	CP 91	CPE-B04006	In-Core East Pos.6	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2702	CP 92	CPE-B04007	In-Core East Pos.7	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2703	CP 93	CPE-B04008	In-Core East Pos.8	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2704	CP 94	CPE-B04009	In-Core East Pos.9	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2705	CP 95	CPE-B20621	B20 Rad(6,2) Pos.1	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2706	CP 96	CPE-B20622	B20 Rad(6,2) Pos.2	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2707	CP 97	CPE-B20623	B20 Rad(6,2) Pos.3	BAD	0.0	1.000+2	%	5.002-1	5.002-1		
2708	CP 98	CPE-B20624	B20 Rad(6,2) Pos.4	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2709	CP 99	CPE-B20625	B20 Rad(6,2) Pos.5	GOOD	0.0	1.000+2	%	5.002-1	5.002-1		
2710	CP 100	CPE-B20626	B20 Rad(6,2) Pos.6	BAD	0.0	1.000+2	%	5.002-1	5.002-1		

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSTF EYP. SB-HE-04 (SH4)	EXP. DATE 88-03-28 PAGE 24				
ICF REV DATE 88-06-23		RDF DATE 88-09-19	LCV XXX	RCV YYY	DQR SR4	RUN DATE 90-12-17			
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LO	LIMITS HI	UNIT	UNCERTAINTY ABS. REL.(%)
2711	CP 101	CPE-B20627	B20 Rad(6,2) Pos.7	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2712	CP 102	CPE-B20628	B20 Rad(6,2) Pos.8	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2713	CP 103	CPE-B20629	B20 Rad(6,2) Pos.9		840	0.0	1.000+2	x	5.002-1 5.002-1
2714	CP 104	CPE-B22621	B22 Rad(6,2) Pos.1	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2715	CP 105	CPE-B22622	B22 Rad(6,2) Pos.2	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2716	CP 106	CPE-B22623	B22 Rad(6,2) Pos.3	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2717	CP 107	CPE-B22624	B22 Rad(6,2) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2718	CP 108	CPE-B22625	B22 Rad(6,2) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2719	CP 109	CPE-B22626	B22 Rad(6,2) Pos.6		QUESTIONABLE	0.0	1.000+2	x	5.002-1 5.002-1
2720	CP 110	CPE-B22627	B22 Rad(6,2) Pos.7	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2721	CP 111	CPE-B22628	B22 Rad(6,2) Pos.8	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2722	CP 112	CPE-B22629	B22 Rad(6,2) Pos.9		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2723	CP 113	CPE-211-PR	Pressurizer Pos.10		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2724	CP 114	CPE-207-PR	Pressurizer Pos.9		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2725	CP 115	CPE-204-PR	Pressurizer Pos.8		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2726	CP 116	CPE-200-PR	Pressurizer Pos.7		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2727	CP 117	CPE-196-PR	Pressurizer Pos.6		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2728	CP 118	CPE-192-PR	Pressurizer Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2729	CP 119	CPE-189-PR	Pressurizer Pos.4	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2730	CP 120	CPE-185-PR	Pressurizer Pos.3		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2731	CP 121	CPE-181-PR	Pressurizer Pos.2	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2732	CP 122	CPE-177-PR	Pressurizer Pos.1		UNUSED	0.0	1.000+2	x	5.002-1 5.002-1
2733	CP 123	CPE-086C-SGA	SGA Boiling Section Pos.1	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2734	CP 124	CPE-099C-SGA	SGA Boiling Section Pos.3	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2735	CP 125	CPE-112C-SGA	SGA Boiling Section Pos.5	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2736	CP 126	CPE-125C-SGA	SGA Boiling Section Pos.6	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2737	CP 127	CPE-137C-SGA	SGA Boiling Section Pos.7	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2738	CP 128	CPE-150C-SGA	SGA Boiling Section Pos.8	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2739	CP 129	CPE-163C-SGA	SGA Boiling Section Pos.9	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2740	CP 130	CPE-178C-SGA	SGA Boiling Section Pos.11	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2741	CP 131	CPE-192F-SGA	SGA Boiling Section Pos.12		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2742	CP 132	CPE-208F-SGA	Separator Pos.13		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2743	CP 133	CPE-192C-SGA	Downcomer Pos.12	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2744	CP 134	CPE-208C-SGA	Downcomer Pos.13		UNQUALIFIED	0.0	1.000+2	x	5.002-1 5.002-1
2745	CP 135	CPE-223C-SGA	Dryer Pos.14		UNQUALIFIED	0.0	1.000+2	x	5.002-1 5.002-1
2746	CP 136	CPE-245C-SGA	Steam Dome Pos.15		UNQUALIFIED	0.0	1.000+2	x	5.002-1 5.002-1
2747	CP 137	CPE-IN0861-SGA	SGA U-Tube(1,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2748	CP 138	CPE-EX0861-SGA	SGA U-Tube(1,EX) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2749	CP 139	CPE-IN0862-SGA	SGA U-Tube(2,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2750	CP 140	CPE-EX0862-SGA	SGA U-Tube(2,EX) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2751	CP 141	CPE-IN0863-SGA	SGA U-Tube(3,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2752	CP 142	CPE-EX0863-SGA	SGA U-Tube(3,EX) Pos.1	GOOD		0.0	1.000+2	x	5.002-1 5.002-1
2753	CP 143	CPE-IN0864-SGA	SGA U-Tube(4,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2754	CP 144	CPE-EX0864-SGA	SGA U-Tube(4,EX) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2755	CP 145	CPE-IN0865-SGA	SGA U-Tube(5,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2756	CP 146	CPE-EX0865-SGA	SGA U-Tube(5,EX) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2757	CP 147	CPE-IN0866-SGA	SGA U-Tube(6,IN) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2758	CP 148	CPE-EX0866-SGA	SGA U-Tube(6,EX) Pos.1		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2759	CP 149	CPE-IN0931-SGA	SGA U-Tube(1,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2760	CP 150	CPE-IN0932-SGA	SGA U-Tube(2,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2761	CP 151	CPE-IN0933-SGA	SGA U-Tube(3,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2762	CP 152	CPE-IN0934-SGA	SGA U-Tube(4,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2763	CP 153	CPE-IN0935-SGA	SGA U-Tube(5,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2764	CP 154	CPE-IN0936-SGA	SGA U-Tube(6,IN) Pos.2		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2765	CP 155	CPE-IN0991-SGA	SGA U-Tube(1,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2766	CP 156	CPE-EX0991-SGA	SGA U-Tube(1,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2767	CP 157	CPE-IN0992-SGA	SGA U-Tube(2,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2768	CP 158	CPE-EX0992-SGA	SGA U-Tube(2,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2769	CP 159	CPE-IN0993-SGA	SGA U-Tube(3,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2770	CP 160	CPE-EX0993-SGA	SGA U-Tube(3,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2771	CP 161	CPE-IN0994-SGA	SGA U-Tube(4,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2772	CP 162	CPE-EX0994-SGA	SGA U-Tube(4,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2773	CP 163	CPE-IN0995-SGA	SGA U-Tube(5,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2774	CP 164	CPE-EX0995-SGA	SGA U-Tube(5,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2775	CP 165	CPE-IN0996-SGA	SGA U-Tube(6,IN) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2776	CP 166	CPE-EX0996-SGA	SGA U-Tube(6,EX) Pos.3		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2777	CP 167	CPE-IN1051-SGA	SGA U-Tube(1,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2778	CP 168	CPE-IN1052-SGA	SGA U-Tube(2,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2779	CP 169	CPE-IN1053-SGA	SGA U-Tube(3,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2780	CP 170	CPE-IN1054-SGA	SGA U-Tube(4,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2781	CP 171	CPE-IN1055-SGA	SGA U-Tube(5,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2782	CP 172	CPE-IN1056-SGA	SGA U-Tube(6,IN) Pos.4		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2783	CP 173	CPE-IN1121-SGA	SGA U-Tube(1,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2784	CP 174	CPE-EX1121-SGA	SGA U-Tube(1,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2785	CP 175	CPE-IN1122-SGA	SGA U-Tube(2,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2786	CP 176	CPE-EX1122-SGA	SGA U-Tube(2,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2787	CP 177	CPE-IN1123-SGA	SGA U-Tube(3,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2788	CP 178	CPE-EX1123-SGA	SGA U-Tube(3,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2789	CP 179	CPE-IN1124-SGA	SGA U-Tube(4,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2790	CP 180	CPE-EX1124-SGA	SGA U-Tube(4,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2791	CP 181	CPE-IN1125-SGA	SGA U-Tube(5,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2792	CP 182	CPE-EX1125-SGA	SGA U-Tube(5,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2793	CP 183	CPE-IN1126-SGA	SGA U-Tube(6,IN) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2794	CP 184	CPE-EX1126-SGA	SGA U-Tube(6,EX) Pos.5		BAD	0.0	1.000+2	x	5.002-1 5.002-1
2795	CP 185	CPE-IN1251-SGA	SGA U-Tube(1,IN) Pos.6		BAD	0.0	1.000+2	x	5.002-1 5.002-1

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DDR)				LSTF EXP. SB-HL-D4 (SH4)		EXP. DATE 88-03-29 PAGE 25					
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	DGV SH4	RUN DATE 90-12-17						
SEQ NO.	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LO	UNIT HI	UNCERTAINTY			
				BAD	GOOD	0.0	1.000+2	X	5.002-1	5.002-1	
2796	CP 185	CPE-EK1251-SGA	SGA U-Tube(1,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2797	CP 187	CPE-IM1252-SGA	SGA U-Tube(2,IN) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2798	CP 188	CPE-EK1252-SGA	SGA U-Tube(7,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2799	CP 189	CPE-IM1253-SGA	SGA U-Tube(3,IN) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2800	CP 190	CPE-EK1253-SGA	SGA U-Tube(3,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2801	CP 191	CPE-IM1254-SGA	SGA U-Tube(4,IN) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2802	CP 192	CPE-EK1254-SGA	SGA U-Tube(4,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2803	CP 193	CPE-IM1255-SGA	SGA U-Tube(5,IN) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2804	CP 194	CPE-EK1255-SGA	SGA U-Tube(5,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2805	CP 195	CPE-IM1256-SGA	SGA U-Tube(6,IN) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2806	CP 196	CPE-EK1256-SGA	SGA U-Tube(6,EX) Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2807	CP 197	CPE-IM1371-SGA	SGA U-Tube(1,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2808	CP 198	CPE-EK1371-SGA	SGA U-Tube(1,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2809	CP 199	CPE-IM1372-SGA	SGA U-Tube(2,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2810	CP 200	CPE-EK1372-SGA	SGA U-Tube(2,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2811	CP 201	CPE-IM1373-SGA	SGA U-Tube(3,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2812	CP 202	CPE-EK1373-SGA	SGA U-Tube(3,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2813	CP 203	CPE-IM1374-SGA	SGA U-Tube(4,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2814	CP 204	CPE-EK1374-SGA	SGA U-Tube(4,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2815	CP 205	CPE-IM1375-SGA	SGA U-Tube(5,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2816	CP 206	CPE-EK1375-SGA	SGA U-Tube(5,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2817	CP 207	CPE-IM1376-SGA	SGA U-Tube(6,IN) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2818	CP 208	CPE-EK1376-SGA	SGA U-Tube(6,EX) Pos.7	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2819	CP 209	CPE-IM1501-SGA	SGA U-Tube(1,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2820	CP 210	CPE-EK1501-SGA	SGA U-Tube(1,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2821	CP 211	CPE-IM1502-SGA	SGA U-Tube(2,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2822	CP 212	CPE-EK1502-SGA	SGA U-Tube(2,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2823	CP 213	CPE-IM1503-SGA	SGA U-Tube(3,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2824	CP 214	CPE-EK1503-SGA	SGA U-Tube(3,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2825	CP 215	CPE-IM1504-SGA	SGA U-Tube(4,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2826	CP 216	CPE-EK1504-SGA	SGA U-Tube(4,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2827	CP 217	CPE-EK1505-SGA	SGA U-Tube(5,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2828	CP 218	CPE-EK1505-SGA	SGA U-Tube(5,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2829	CP 219	CPE-EK1506-SGA	SGA U-Tube(6,IN) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2830	CP 220	CPE-EK1506-SGA	SGA U-Tube(6,EX) Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2831	CP 221	CPE-IM1612-SGA	SGA U-Tube(2,IN) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2832	CP 222	CPE-EK1612-SGA	SGA U-Tube(2,EX) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2833	CP 223	CPE-IM1633-SGA	SGA U-Tube(3,IN) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2834	CP 224	CPE-EK1633-SGA	SGA U-Tube(3,EX) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2835	CP 225	CPE-IM1634-SGA	SGA U-Tube(4,IN) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2836	CP 226	CPE-EK1634-SGA	SGA U-Tube(4,EX) Pos.9	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2837	CP 227	CPE-IM1635-SGA	SGA U-Tube(5,IN) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2838	CP 228	CPE-EK1635-SGA	SGA U-Tube(5,EX) Pos.9	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2839	CP 229	CPE-IM1701-SGA	SGA U-Tube(1,IN) Pos.10	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2840	CP 230	CPE-EK1706-SGA	SGA U-Tube(6,IN) Pos.10	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2841	CP 231	CPE-IM1782-SGA	SGA U-Tube(2,IN) Pos.10	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2842	CP 232	CPE-IM1785-SGA	SGA U-Tube(5,IN) Pos.10	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2843	CP 233	CPE-IM1863-SGA	SGA U-Tube(3,IN) Pos.11	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2844	CP 234	CPE-IM1864-SGA	SGA U-Tube(4,IN) Pos.11	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2845	CP 235	CPE-086C-SGB	SGB Boiling Section Pos.1	UNQUALIFIED		0.0	1.000+2	X	5.002-1	5.002-1	
2846	CP 236	CPE-090C-SGB	SGB Boiling Section Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2847	CP 237	CPE-112C-SGB	SGB Boiling Section Pos.5	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2848	CP 238	CPE-125C-SGB	SGB Boiling Section Pos.6	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2849	CP 239	CPE-137C-SGB	SGB Boiling Section Pos.7	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2850	CP 240	CPE-150C-SGB	SGB Boiling Section Pos.8	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2851	CP 241	CPE-163C-SGB	SGB Boiling Section Pos.9	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2852	CP 242	CPE-178C-SGB	SGB Boiling Section Pos.11	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2853	CP 243	CPE-192F-SGB	SGB Boiling Section Pos.12	UNQUALIFIED		0.0	1.000+2	X	5.002-1	5.002-1	
2854	CP 244	CPE-208F-SGB	SGB Separator Pos.13	GOOD		0.0	1.000+2	X	5.002-1	5.002-1	
2855	CP 245	CPE-192C-SGB	SGB Downcomer Pos.12	UNQUALIFIED		0.0	1.000+2	X	5.002-1	5.002-1	
2856	CP 246	CPE-204C-SGB	SGB Downcomer Pos.13	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2857	CP 247	CPE-273C-SGB	SGB Dryer Pos.14	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2858	CP 248	CPE-245C-SGB	SGB Steam Dome Pos.15	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2859	CP 249	CPE-IM0861-SGB	SGB U-Tube(1,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2860	CP 250	CPE-EK0861-SGB	SGB U-Tube(1,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2861	CP 251	CPE-IM0862-SGB	SGB U-Tube(2,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2862	CP 252	CPE-EK0862-SGB	SGB U-Tube(2,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2863	CP 253	CPE-IM0863-SGB	SGB U-Tube(3,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2864	CP 254	CPE-EK0863-SGB	SGB U-Tube(3,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2865	CP 255	CPE-IM0864-SGB	SGB U-Tube(4,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2866	CP 256	CPE-EK0864-SGB	SGB U-Tube(4,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2867	CP 257	CPE-IM0865-SGB	SGB U-Tube(5,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2868	CP 258	CPE-EK0865-SGB	SGB U-Tube(5,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2869	CP 259	CPE-IM0866-SGB	SGB U-Tube(6,IN) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2870	CP 260	CPE-EK0866-SGB	SGB U-Tube(6,EX) Pos.1	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2871	CP 261	CPE-IM0931-SGB	SGB U-Tube(1,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2872	CP 262	CPE-EK0932-SGB	SGB U-Tube(2,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2873	CP 263	CPE-IM0933-SGB	SGB U-Tube(3,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2874	CP 264	CPE-IM0934-SGB	SGB U-Tube(4,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2875	CP 265	CPE-EK0935-SGB	SGB U-Tube(5,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2876	CP 266	CPE-IM0936-SGB	SGB U-Tube(6,IN) Pos.2	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2877	CP 267	CPE-EK0991-SGB	SGB U-Tube(1,EX) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2878	CP 268	CPE-EK0991-SGB	SGB U-Tube(1,FX) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2879	CP 269	CPE-EK0992-SGB	SGB U-Tube(2,IN) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2880	CP 270	CPE-EK0992-SGB	SGB U-Tube(2,EX) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DQR)				LSTF EXP. SD-HL-04 (SH4)	EXP. DATE 88-03-29 PAGE 26						
ICF REV DATE 88-06-23		RDF DATE 88-09-19	LCV XXX	RCV YYY	DQV SH4	RUN DATE 90-12-17					
SER NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LIMITS	UNIT	UNCERTAINTY			
						LO	H1	ABS. REL.(%)			
2881	CP 271	CPE-IN0993-SGB	SGB U-Tube(3,[IN]) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2882	CP 272	CPE-EX0993-SGB	SGB U-Tube(3,[EX]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2883	CP 273	CPE-IN0994-SGB	SGB U-Tube(4,[IN]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2884	CP 274	CPE-EX0994-SGB	SGB U-Tube(4,[EX]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2885	CP 275	CPE-IN0995-SGB	SGB U-Tube(5,[IN]) Pos.3	BAD		0.0	1.000+2	X	5.002-1	5.002-1	
2886	CP 276	CPE-EX0995-SGB	SGB U-Tube(5,[EX]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2887	CP 277	CPE-IN0996-SGB	SGB U-Tube(6,[IN]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2888	CP 278	CPE-EX0996-SGB	SGB U-Tube(6,[EX]) Pos.3	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2889	CP 279	CPE-IN1051-SGB	SGB U-Tube(1,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2890	CP 280	CPE-IN1052-SGB	SGB U-Tube(2,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2891	CP 281	CPE-IN1053-SGB	SGB U-Tube(3,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2892	CP 282	CPE-IN1054-SGB	SGB U-Tube(4,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2893	CP 283	CPE-IN1055-SGB	SGB U-Tube(5,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2894	CP 284	CPE-IN1056-SGB	SGB U-Tube(6,[IN]) Pos.4	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2895	CP 285	CPE-IN1121-SGB	SGB U-Tube(1,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2896	CP 286	CPE-EX1121-SGB	SGB U-Tube(1,[EX]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2897	CP 287	CPE-IN1122-SGB	SGB U-Tube(2,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2898	CP 288	CPE-EX1122-SGB	SGB U-Tube(2,[EX]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2899	CP 289	CPE-IN1123-SGB	SGB U-Tube(3,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2900	CP 290	CPE-EX1123-SGB	SGB U-Tube(3,[EX]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2901	CP 291	CPE-IN1124-SGB	SGB U-Tube(4,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2902	CP 292	CPE-EX1124-SGB	SGB U-Tube(4,[EX]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2903	CP 293	CPE-IN1125-SGB	SGB U-Tube(5,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2904	CP 294	CPE-EX1125-SGB	SGB U-Tube(5,[EX]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2905	CP 295	CPE-IN1126-SGB	SGB U-Tube(6,[IN]) Pos.5	BAD		0.0	1.000+2	Z	5.002-1	5.002-1	
2906	CP 296	CPE-EX1126-SGB	SGB U-Tube(6,[EX]) Pos.5	BAD	QUESTIONABLE	0.0	1.000+2	Z	5.002-1	5.002-1	
2907	CP 297	CPE-IN1251-SGB	SGB U-Tube(1,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2908	CP 298	CPE-EX1251-SGB	SGB U-Tube(1,[EX]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2909	CP 299	CPE-IN1252-SGB	SGB U-Tube(2,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2910	CP 300	CPE-EX1252-SGB	SGB U-Tube(2,[EX]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2911	CP 301	CPE-IN1253-SGB	SGB U-Tube(3,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2912	CP 302	CPE-EX1253-SGB	SGB U-Tube(3,[EX]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2913	CP 303	CPE-IN1254-SGB	SGB U-Tube(4,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2914	CP 304	CPE-EX1254-SGB	SGB U-Tube(4,[EX]) Pos.6	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2915	CP 305	CPE-IN1255-SGB	SGB U-Tube(5,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2916	CP 306	CPE-EX1255-SGB	SGB U-Tube(5,[EX]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2917	CP 307	CPE-IN1256-SGB	SGB U-Tube(6,[IN]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2918	CP 308	CPE-EX1256-SGB	SGB U-Tube(6,[EX]) Pos.6			0.0	1.000+2	Z	5.002-1	5.002-1	
2919	CP 309	CPE-IN1371-SGB	SGB U-Tube(1,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2920	CP 310	CPE-EX1371-SGB	SGB U-Tube(1,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2921	CP 311	CPE-IN1372-SGB	SGB U-Tube(2,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2922	CP 312	CPE-EX1372-SGB	SGB U-Tube(2,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2923	CP 313	CPE-IN1373-SGB	SGB U-Tube(3,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2924	CP 314	CPE-EX1373-SGB	SGB U-Tube(3,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2925	CP 315	CPE-IN1374-SGB	SGB U-Tube(4,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2926	CP 316	CPE-EX1374-SGB	SGB U-Tube(4,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2927	CP 317	CPE-IN1375-SGB	SGB U-Tube(5,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2928	CP 318	CPE-EX1375-SGB	SGB U-Tube(5,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2929	CP 319	CPE-IN1376-SGB	SGB U-Tube(6,[IN]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2930	CP 320	CPE-EX1376-SGB	SGB U-Tube(6,[EX]) Pos.7			0.0	1.000+2	Z	5.002-1	5.002-1	
2931	CP 321	CPE-IN1501-SGB	SGB U-Tube(1,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2932	CP 322	CPE-EX1501-SGB	SGB U-Tube(1,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2933	CP 323	CPE-IN1502-SGB	SGB U-Tube(2,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2934	CP 324	CPE-EX1502-SGB	SGB U-Tube(2,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2935	CP 325	CPE-IN1503-SGB	SGB U-Tube(3,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2936	CP 326	CPE-EX1503-SGB	SGB U-Tube(3,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2937	CP 327	CPE-IN1504-SGB	SGB U-Tube(4,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2938	CP 328	CPE-EX1504-SGB	SGB U-Tube(4,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2939	CP 329	CPE-IN1505-SGB	SGB U-Tube(5,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2940	CP 330	CPE-EX1505-SGB	SGB U-Tube(5,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2941	CP 331	CPE-IN1506-SGB	SGB U-Tube(6,[IN]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2942	CP 332	CPE-EX1506-SGB	SGB U-Tube(6,[EX]) Pos.8			0.0	1.000+2	Z	5.002-1	5.002-1	
2943	CP 333	CPE-IN1632-SGB	SGB U-Tube(2,[IN]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2944	CP 334	CPE-EX1632-SGB	SGB U-Tube(2,[EX]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2945	CP 335	CPE-IN1633-SGB	SGB U-Tube(3,[IN]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2946	CP 336	CPE-EX1633-SGB	SGB U-Tube(3,[EX]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2947	CP 337	CPE-IN1634-SGB	SGB U-Tube(4,[IN]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2948	CP 338	CPE-EX1634-SGB	SGB U-Tube(4,[EX]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2949	CP 339	CPE-IN1635-SGB	SGB U-Tube(5,[IN]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2950	CP 340	CPE-EX1635-SGB	SGB U-Tube(5,[EX]) Pos.9	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2951	CP 341	CPE-IN1701-SGB	SGB U-Tube(1,[IN]) Pos.10	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2952	CP 342	CPE-EX1701-SGB	SGB U-Tube(1,[EX]) Pos.10	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2953	CP 343	CPE-IN1702-SGB	SGB U-Tube(2,[IN]) Pos.10	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2954	CP 344	CPE-EX1702-SGB	SGB U-Tube(2,[EX]) Pos.10	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2955	CP 345	CPE-IN1703-SGB	SGB U-Tube(3,[IN]) Pos.10	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2956	CP 346	CPE-EX1703-SGB	SGB U-Tube(4,[IN]) Pos.11	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2957	CP 347	CPE-010A-HLA	HLA Vessel Side CPT			0.0	1.000+2	Z	5.002-1	5.002-1	
2958	CP 348	CPE-010B-HLA	HLA Vessel Side CPT			0.0	1.000+2	Z	5.002-1	5.002-1	
2959	CP 349	CPE-010C-HLA	HLA Vessel Side CPT			0.0	1.000+2	Z	5.002-1	5.002-1	
2960	CP 350	CPE-010D-HLA	HLA Vessel Side CPT			0.0	1.000+2	Z	5.002-1	5.002-1	
2961	CP 351	CPE-010E-HLA	HLA Vessel Side CPT	GOOD		0.0	1.000+2	Z	5.002-1	5.002-1	
2963	CP 353	CPE-010B-HLA	HLA SG Side CPT	UNUSED		0.0	1.000+2	Z	5.002-1	5.002-1	
2964	CP 354	CPE-010C-HLA	HLA SG Side CPT	UNUSED		0.0	1.000+2	Z	5.002-1	5.002-1	
2965	CP 355	CPE-010D-HLA	HLA SG Side CPT	UNUSED		0.0	1.000+2	Z	5.002-1	5.002-1	
2966	CP 356	CPE-010E-HLA	HLA SG Side CPT	UNUSED		0.0	1.000+2	Z	5.002-1	5.002-1	

Table 2.2 (Continued)

ADQ DATA QUALITY RECORD (DRR) LSIF EXP. SB-HL-04 (SH4)				EXP. DATE 88-03-29 PAGE 27			
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCV XXX	RCV YYY	RDF SH4	RUN DATE 90-12-17		
SEQ NO.	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY	SPAN LIMS LG	UNIT HI	UNCERTAINTY ABS. REL. (%)
2967	CP 357	CPE-090A-CLA	CLA Vessel Side CPT	UNUSED	0.0	1.000+2	% 5.002-1 5.002-1
2968	CP 358	CPE-090B-CLA	CLA Vessel Side CPT	UNUSED	0.0	1.000+2	% 5.002-1 5.002-1
2969	CP 359	CPE-090C-CLA	CLA Vessel Side CPT	UNUSED	0.0	1.000+2	% 5.002-1 5.002-1
2970	CP 360	CPE-090D-CLA	CLA Vessel Side CPT	UNUSED	0.0	1.000+2	% 5.002-1 5.002-1
2971	CP 361	CPE-090E-CLA	CLA Vessel Side CPT	UNUSED	0.0	1.000+2	% 5.002-1 5.002-1
2972	CP 362	CPE-150A-HLB	HLB Vessel Side CPT	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2973	CP 363	CPE-150B-HLB	HLB Vessel Side CPT	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2974	CP 364	CPE-150C-HLB	HLB Vessel Side CPT	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2975	CP 365	CPE-150D-HLB	HLB Vessel Side CPT	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2976	CP 366	-CPE-150E-HLB	HLB Vessel Side CPT	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2977	CP 367	CPE-180A-HLB	HLB SG Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2978	CP 368	CPE-180B-HLB	HLB SG Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2979	CP 369	CPE-180C-HLB	HLB SG Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2980	CP 370	CPE-180D-HLB	HLB SG Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2981	CP 371	CPE-180E-HLB	HLB SG Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2982	CP 372	CPE-230A-CLB	CLB Vessel Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2983	CP 373	CPE-230B-CLB	CLB Vessel Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2984	CP 374	CPE-230C-CLB	CLB Vessel Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2985	CP 375	CPE-230D-CLB	CLB Vessel Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2986	CP 376	CPE-230E-CLB	CLB Vessel Side CPT	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2987	CP 377	CPE-560-ST	Suppression Tank Inlet	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2988	CP 378	CPE051A-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2989	CP 379	CPE051B-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2990	CP 380	CPE051C-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2991	CP 381	CPE051D-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2992	CP 382	CPE051E-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2993	CP 383	CPE051F-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2994	CP 384	CPE051G-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2995	CP 385	CPE051H-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2996	CP 386	CPE051I-LSA	LSA (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2997	CP 387	CPE051J-LSA	LSA (SG Side)	BAD	0.0	1.000+2	% 5.002-1 5.002-1
2998	CP 388	CPE191A-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
2999	CP 389	CPE191B-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3000	CP 390	CPE191C-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3001	CP 391	CPE191D-LSB	LSB (SG Side)	BAD	0.0	1.000+2	% 5.002-1 5.002-1
3002	CP 392	CPE191E-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3003	CP 393	CPE191F-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3004	CP 394	CPE191G-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3005	CP 395	CPE191H-LSB	LSB (SG Side)	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3006	CP 396	CPE191I-LSB	LSB (SG Side)	BAD	0.0	1.000+2	% 5.002-1 5.002-1
3007	CP 397	CPE191J-LSB	LSB (SG Side)	BAD	0.0	1.000+2	% 5.002-1 5.002-1
3018	CP 408	CE270-PV	PV Bottom	BAD	0.0	1.000+2	% 5.002-1 5.002-1
3019	CP 409	CP-VALVE-Y	Break Signal for YEWCOM	GOOD	0.0	1.000+2	% 0.0 0.0
3020	CP 410	CP-VALVE-S	Break Signal for FACOM	GOOD	0.0	1.000+2	% 5.002-1 5.002-1
3161	RC 1	MFE011A-HLA-EU	HLA Spool Piece Top	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3162	RC 2	MFE011B-HLA-EU	HLA Spool Piece Side	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3163	RC 3	MFE011C-HLA-EU	HLA Spool Piece Bottom	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3164	RC 4	MFE011A-LSA-EU	LSA Spool Piece East	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3165	RC 5	MFE011B-LSA-EU	LSA Spool Piece South	UNQUALIFIED	+1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3166	RC 6	MFE011C-LSA-EU	LSA Spool Piece West	UNQUALIFIED	+1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3167	RC 7	MFE071A-CLA-EU	CLA Spool Piece Top	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3168	RC 8	MFE071B-CLA-EU	CLA Spool Piece Side	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3169	RC 9	MFE071C-CLA-EU	CLA Spool Piece Bottom	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3170	RC 10	MFE151A-HLB-EU	HLB Spool Piece Top	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3171	RC 11	MFE151B-HLB-EU	HLB Spool Piece Side	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3172	RC 12	MFE151C-HLB-EU	HLB Spool Piece Bottom	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3173	RC 13	MFE191A-LSB-EU	LSB Spool Piece West	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3174	RC 14	MFE191B-LSB-EU	LSB Spool Piece North	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3175	RC 15	MFE191C-LSB-EU	LSB Spool Piece East	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3176	RC 16	MFE211A-CLB-EU	CLB Spool Piece Top	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3177	RC 17	MFE211B-CLB-EU	CLB Spool Piece Side	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3178	RC 18	MFE211C-CLB-EU	CLB Spool Piece Bottom	UNQUALIFIED	-1.300+4	1.300+4	kg/ms2 2.600+2 1.000+0
3179	RC 19	MFE071A-HLA-EU	HLA Spool Piece Top	UNQUALIFIED	-2.890+3	2.890+3	kg/ms2 5.780+1 1.000+0
3180	RC 20	MFE051D-LSA-EU	LSA Spool Piece North(Low)	UNQUALIFIED	-2.890+3	2.890+3	kg/ms2 5.780+1 1.000+0
3181	RC 21	MFE161A-HLB-EU	LSB Spool Piece Inlet	UNQUALIFIED	-2.890+3	2.890+3	kg/ms2 5.780+1 1.000+0
3182	RC 22	MFE191D-LSB-EU	LSB Spool Piece South(Low)	UNQUALIFIED	-2.890+3	2.890+3	kg/ms2 5.780+1 1.000+0
3191	RC 31	DE011A-HLA-EU	HLA S.P. Beam A	GOOD	0.0	1.000+3	kg/m3 2.700+1 2.700+0
3192	RC 32	DE011B-HLA-EU	HLA S.P. Beam B	GOOD	0.0	1.000+3	kg/m3 2.000+1 2.200+0
3193	RC 33	DE011C-HLA-EU	HLA S.P. Beam C	GOOD	0.0	1.000+3	kg/m3 3.000+1 5.000+0
3194	RC 34	DE151A-HLB-EU	HLB S.P. Beam A	GOOD	0.0	1.000+3	kg/m3 2.700+1 2.700+0
3195	RC 35	DE151B-HLB-EU	HLB S.P. Beam B	GOOD	0.0	1.000+3	kg/m3 2.200+1 2.000+0
3196	RC 36	DE151C-HLB-EU	HLB S.P. Beam C	GOOD	0.0	1.000+3	kg/m3 2.000+1 2.000+0
3197	RC 37	DE071A-CLA-EU	CLA S.P. Beam A	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3198	RC 38	DE071B-CLA-EU	CLA S.P. Beam B	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3199	RC 39	DE071C-CLA-EU	CLA S.P. Beam C	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3200	RC 40	DE211A-CLB-EU	CLB S.P. Beam A	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3201	RC 41	DE211B-CLB-EU	CLB S.P. Beam B	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3202	RC 42	DE211C-CLB-EU	CLB S.P. Beam C	GOOD	0.0	1.000+3	kg/m3 5.000+1 5.000+0
3203	RC 43	DE071A-HLA-EU	HLA S.P. Beam A	UNQUALIFIED	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3204	RC 44	DE071B-HLA-EU	HLA S.P. Beam B	UNQUALIFIED	0.0	1.000+3	kg/m3 4.170+1 4.170+0
3205	RC 45	DE071C-HLA-EU	HLA S.P. Beam C	UNQUALIFIED	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3206	RC 46	FRE-071-HLB	from RC 1 2 3 31 32 33	UNQUALIFIED	0.0	1.000+3	kg/m3 4.170+1 4.170+0
3207	RC 47	DAE-071-HLA	from RC 34 35 36	GOOD	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3208	RC 48	FRE-151-HLB	from RC 11 12 34 35 36	UNQUALIFIED	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3209	RC 49	DAE-151-HLB	from RC 34 35 36	GOOD	0.0	1.000+3	kg/m3 4.170+1 4.170+0
3210	RC 50	FRE-071-CLA	from RC 7 8 9 37 38 39	UNQUALIFIED	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3211	RC 51	FRE-211-CLB	from RC 16 17 18 40 41 42	UNQUALIFIED	-1.210+2	1.210+2	kg/s 5.490+0 2.270+0
3212	RC 52	DAE-071-CLA	from RC 37 38 39	GOOD	0.0	1.000+3	kg/m3 8.930+1 8.930+0

Table 2.2 (Continued)

ADD DATA QUALITY RECORD (DDR)			LSTF EXP. SB-HL-04 (SH4)	RCV YYY	RDV SH4	EXP. DATE 88-03-29 PAGE 28		
ICF REV DATE 88-06-23	RDF DATE 88-09-19	LCW XXX				RUN DATE 90-12-17		
SEQ NO	FUNC ID.	TAG NAME	LOCATION	DATA QUALITY		SPAN LO	UNIT HI	UNCERTAINTY ABS. REL.(%)
3213	RC 53	DAE-211-CLB	From RC 40 41 42	GOOD		0.0	1.000+3 kg/m3	8.930+1 8.930+0
3215	RC 56	DE051A-LSA-EU	LSA S.P Beam A	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3217	RC 57	DE051B-LSA-EU	LSA S.P Beam B	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3218	RC 58	DE051C-LSA-EU	LSA S.P Beam C	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3219	RC 59	DE1914-LSB-EU	LSB S.P Beam A	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3220	RC 60	DE1918-LSB-EU	LSB S.P Beam B	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3221	RC 61	DE191C-LSB-EU	LSB S.P Beam C	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3222	RC 62	DE052-LSA-EU	PCA Suction	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3223	RC 63	DE192-LSB-EU	PCB Suction	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3224	RC 64	DE281-PR-EU	PR Surge Line	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3225	RC 65	DE291-PR-EU	PR Relief Valve Line	UNQUALIFIED		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3226	RC 66	DE301-PR-EU	PR Safety Valve Line	UNQUALIFIED		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3227	RC 67	DE311-PR-EU	PV-PR Vent Line	UNQUALIFIED		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3228	RC 68	DE451-SGA-EU	SGA Downcomer	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3229	RC 69	DE471-SGB-EU	SGB Downcomer	GOOD		0.0	1.000+3 kg/m3	5.500+1 5.500+0
3230	RC 70	DE4514-SGA-EU	SGA Safety S.P Upper Beam	UNQUALIFIED		0.0	1.000+1 kg/m3	1.000+0 1.000+1
3231	RC 71	DE451B-SGA-EU	SGA Safety S.P Center Beam	UNQUALIFIED		0.0	1.000+1 kg/m3	1.000+0 1.000+1
3232	RC 72	DE451C-SGA-EU	SGA Safety S.P Bottom Beam	UNQUALIFIED		0.0	1.000+1 kg/m3	1.000+0 1.000+1
3233	RC 73	DE591A-BU-EU	BU S.P Beam A	UNQUALIFIED		0.0	1.000+1 kg/m3	1.000+0 1.000+1
3234	RC 74	DE591B-BU-EU	BU S.P Beam B	UNQUALIFIED		0.0	1.000+1 kg/m3	1.000+0 1.000+1
3235	RC 75	DE591C-BU-EU	BU S.P Beam C	UNQUALIFIED		0.0	1.000+1 kg/m3	7.200+0 7.200+1
3236	RC 76	MFE061A-LSA-EU	LSA Spool Piece	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3237	RC 77	MFE061B-LSA-EU	LSA Spool Piece	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3238	RC 78	MFE201A-LSB-EU	LSB Spool Piece	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3239	RC 79	MFE201B-LSB-EU	LSB Spool Piece	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3240	RC 80	MFE311A-PR-EU	PV-PR Vent Line S.P Top	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3241	RC 81	MFE311B-PR-EU	PV-PR Vent Line Bottom	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3242	RC 82	MFE291A-PR-EU	PR Relief Valve Line(High)	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3243	RC 83	MFE291B-PR-EU	PR Relief Valve Line(Low)	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3244	RC 84	MFE301B-PR-EU	PR Safety Valve Line(Low)	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3245	RC 85	MFE301A-PR-EU	PR Safety Valve Line(High)	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3248	RC 88	VE0304-CLA-EU	CLA Pitot Tube	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3249	RC 89	VE0309-CLA-EU	CLA Pitot Tube	UNQUALIFIED		0.0	1.239+4 mm	0.0 0.0
3250	RC 90	VE030-CLA-EU	CLA Pitot Tube	QUESTIONABLE		0.0	1.239+4 kg/ms2	0.0 0.0
3251	RC 91	VE0104-HLA-EU	HLA Pitot Tube	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3252	RC 92	VE0108-HLA-EU	HLA Pitot Tube	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3253	RC 93	VE010-HLA-EU	HLA Pitot Tube	QUESTIONABLE		0.0	1.239+4 mm	0.0 0.0
3254	RC 94	VE0204-LSA-EU	LSA Pitot Tube	UNQUALIFIED		0.0	1.239+4 kg/ms2	0.0 0.0
3255	RC 95	VE0208-LSA-EU	LSA Pitot Tube	UNQUALIFIED		0.0	1.239+4 mm	0.0 0.0
3256	RC 96	VE0202-LSA-EU	LSA Pitot Tube	QUESTIONABLE		0.0	1.239+4 mm	0.0 0.0
3257	RC 97	FE291A-AYG	from RC 65 RC 82	QUESTIONABLE		0.0	3.000+0 kg/s	4.860-2 1.620+0
3258	RC 98	FE291B-AYG	from RC 65 RC 83	QUESTIONABLE		0.0	3.000+0 kg/s	4.860-2 1.620+0
3259	RC 99	FE301A-AYG	from RC 65 RC 85	QUESTIONABLE		0.0	6.000+0 kg/s	9.720-2 1.620+0
3260	RC 100	FE301B-AYG	from RC 66 RC 84	QUESTIONABLE		0.0	6.000+0 kg/s	9.720-2 1.620+0
3061	RC 101	FE311A-AYG	from RC 67,80	QUESTIONABLE		0.0	2.000+0 kg/s	4.580-2 2.290+0
3062	RC 102	FE311B-AYG	from RC 67,81	QUESTIONABLE		0.0	2.000+0 kg/s	4.580-2 2.290+0
3065	RC 105	DE451-AYG	from RC 70,71,72	UNQUALIFIED		0.0	1.000+1 kg/m3	0.0 0.0
3067	RC 107	FRE590-ST	from TE 85.86 PE 25 LE 10	QUESTIONABLE		0.0	1.000+1 kg/s	2.600+2 1.000+0
3068	RC 108	FRE675-ACH	from TE 93.94 PE 32 LE 15	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3069	RC 109	FRE655-ACC	from TE 89.90 PE 31 LE 14	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3070	RC 110	FRE-051-LSA	Cross Over Leg A Flow Rate	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3071	RC 111	FRE-191-LSA	Cross Over Leg B Flow Rate	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3072	RC 112	DAE-051-LSA	Cross Over Leg A Ave. Dens.	GOOD		0.0	1.000+3 kg/m3	0.0 0.0
3073	RC 113	DAE-191-LSB	Cross Over Leg B Ave. Dens.	GOOD		0.0	1.000+3 kg/m3	0.0 0.0
3074	RC 114	FRE-061-LSA	from RC 76,77,56,57,58	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3075	RC 115	FRE-201-LSB	from RC 78,79,59,60,61	UNQUALIFIED		-1.300+4	1.300+4 kg/s	2.600+2 1.000+0
3080	RC 120	DAE-051-LSA-TY	from RC 56,57,58	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3081	RC 121	DAE-191-LSB-TY	from RC 59,60,61	GOOD		0.0	1.000+3 kg/m3	5.000+1 5.000+0
3086	RC 126	FRE-291A-PR	from RC 82,85	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3087	RC 127	FRE-291B-PR	from RC 83,85	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3088	RC 128	FRE-301A-PR	from RC 83,86	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3089	RC 129	FRE-301B-PR	from RC 84,86	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3090	RC 130	FRE-311A-PR	from RC 80,87	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3091	RC 131	FRE-311B-PR	from RC 81,87	QUESTIONABLE		-1.210+2	1.210+2 kg/s	0.0 0.0
3092	RC 132	DE591-AYG	from RC 73,74,75	UNQUALIFIED		-1.210+2	1.210+2 kg/m3	0.0 0.0
3093	RC 133	TWE-PCT	Peak Cladding Temp.	GOOD		0.0	0.0 k	0.0 0.0
3094	RC 134	TWE-PCTLOC	Location of PCT	UNUSED		0.0	0.0 Channel	0.0 0.0

Table 3.1 Test Initial Conditions for Run SB-HL-04

		Specified	Measured
Pressurizer pressure	(MPa)	15.5	15.5
Hot leg fluid temperature (A/B)	(K)	598/598	598/598
Cold leg fluid temperature (A/B)	(K)	562/562	563/563
Core power	(MW)	10	10.0
Core inlet flow rate	(kg/s)	48.6	49.1
Pressurizer water level	(m)	2.7	2.66
Primary coolant pump speed (A/B)	(rpm)	800/800	780/790
Primary coolant flow control valve		fully open	fully open
Downcomer-to-hot leg leak flow	(kg/s)	0.049	0.06
SG secondary pressure (A/B)	(MPa)	7.3/7.3	7.4/7.4
SG secondary pressure (A/B)	(m)	10.3/10.3	10.8/10.6
SG feedwater temperature	(K)	495	493
SG feedwater steam flow rates	(kg/s)	2.7	2.5~2.8

Table 4.1 Specified Operational Setpoints for Run SB-HL-04

Reactor scram signal	12.97MPa (pressurizer)
Initiation of RC pump coastdown	with reactor scram
Safety injection (SI) signal	12.27MPa (pressurizer)
High pressure charging pumps	not actuated
High pressure safety injection pumps	not actuated
Accumulator injection	4.51MPa
Low pressure injection	1.29MPa
Main feedwater termination	with reactor scram
Turbine throttle valve closure	with reactor scram
Auxiliary feedwater initiation	failure assumed
Pressurizer Proportional-Heater off	1 m (pressurizer)
Pressurizer Back-up-heater off	1 m (pressurizer)
Pressurizer Relief Valve Orifice	6.83 mm
Pressurizer Relief Valve on/off	16.20/16.07 MPa
Pressurizer Safety Valve Orifice	14.5 mm
Pressurizer Safety Valve on/off	17.26/17.06 MPa
Core Power Profile	Case 3
Core Power Trip Control	908K 918K 919K 920K 923K 75% 50% 25% 10% 0%
Steam Generator Relief Valve Orifice	19.4 mm
Steam Generator Relief Valve on/off	8.03/7.82 MPa
Steam Generator Safety Valve Orifice	26.6 mm
Steam Generator Safety Valve on/off	8.68/7.69 MPa

Table 4.2 Tabulation of Core Power Decay Curve

Time after Scram (s)	Power (MW)	Normalized Power (-)	Power used in Test (MW)
0	71.313	1.0	10.000
1	70.324	0.98614	10.000
1.5	68.688	0.96320	10.000
2	65.300	0.91568	10.000
3	56.428	0.79128	10.000
4	48.645	0.68214	10.000
5	42.614	0.59757	10.000
6	37.472	0.52546	10.000
8	29.133	0.40853	10.000
10	22.820	0.32000	10.000
15	12.503	0.17533	10.000
17.87			10.000
20	8.1497	0.11428	8.1497
30	5.3662	0.075249	5.3662
40	4.5044	0.063164	4.5044
50	3.9056	0.054767	3.9056
60	3.5384	0.049619	3.5384
80	3.0425	0.042664	3.0425
100	2.7633	0.038749	2.7633
150	2.4228	0.033974	2.4228
200	2.2631	0.031735	2.2631
300	2.0795	0.029160	2.0795
400	2.0000	0.028045	2.0000
500	1.9127	0.026821	1.9127
600	1.8317	0.025685	1.8317
800	1.5768	0.022111	1.5768
1000	1.4872	0.020855	1.4872
1500	1.3417	0.018815	1.3417
2000	1.2378	0.017357	1.2378
3000	1.0960	0.015369	1.0960
4000	1.0029	0.014064	1.0029
5000	0.93648	0.013132	0.93648
6000	0.88612	0.012426	0.88612
8000	0.81362	0.011409	0.81362
1×10^4	0.76272	0.010695	0.76272
2×10^4	0.62943	8.8263×10^{-3}	0.62943
5×10^4	0.49122	6.8883×10^{-3}	0.49122
1×10^5	0.40466	5.6745×10^{-3}	0.40466

Table 4.3 ECCS Operational Conditions

ECCS	Specification
High pressure charging system Pump shut-off head Delay time from SI signal Flowrate Fluid temperature Injection location(ratio)	not actuated
High pressure injection system Pump shut-off head Delay time from SI signal Flowrate Fluid temperature Injection location(ratio)	not actuated
Low pressure injection system Pump shut-off head Delay time from SI signal Flowrate Fluid temperature Injection location(ratio)	1.29 MPa 17 s scaled full capacity 310 K CLA, CLB (3:1)
ACC system Pressure setpoint Water temperature Injection location(ratio) Initial tank level to loop-A (ACC-Cold) to loop-B (ACC-Hot) Terminal tank level to loop-A (ACC-Cold) to loop-B (ACC-Hot)	4.51 MPa 320 K CLA, CLB (3:1) 5.76 m 6.43 m 3.38 m 5.64 m

Table 5.1 Chronology of Events

<u>Time (s)</u>	<u>Event</u>
0	Break valve opened.
6	Scram signal setpoint pressure reached.
9	Safety injection signal setpoint pressure reached.
10	Steam valves closed.
12	Pump coastdown initiated.
12	Feedwater valves closed.
95	Cold legs started flashing.
261	Power to pumps turned off.
230-270	Core dryout.
242	ACC injection came on for both loops.
270	Loop seal clearing (initiation of clearing of loop seal upflow leg), concurrent for the two loops.
382-545	Data acquisition system failed
586	ACC injection valve closed for ACC-hot (Loop B).
590	ACC injection valve closed for ACC-cold (Loop A).
807	LPI came on (for Loop A alone).
1355	Break valve closed manually: end of test.

Table 5.2 Listing of Event Record File (ERF)

SB-HL-04 (SH4)							
1	AOV-300-BU BU NO.1	OPEN	3	29	19	29	52
2	AOV-220-SH SH MAIN	CLOSE	3	29	19	30	2
3	AOV-260-JC JC PF FEED	CLOSE	3	29	19	30	4
4	AOV-450-ACH ACH INJEC.2	OPEN	3	29	19	33	54
5	AOV-410-ACC ACC INJEC.1	OPEN	3	29	19	33	55
6	PCA	STOP	3	29	19	34	13
7	PCB	STOP	3	29	19	34	13
8	AOV-450-ACH ACH INJEC.2	CLOSE	3	29	19	39	38
9	AOV-410-ACC ACC INJEC.1	CLOSE	3	29	19	39	42
10	AOV-600-PL PL-CLA INJEC	OPEN	3	29	19	43	19
11	AOV-620-PL PL-CLB INJEC	OPEN	3	29	19	43	19
12	AOV-630-PL PL-RETURN	CLOSE	3	29	19	43	20
13	AOV-300-BU BU NO.1	CLOSE	3	29	19	52	27
14	AOV-630-PL PL-RETURN	OPEN	3	29	19	52	39
15	AOV-600-PL PL-CLA INJEC	CLOSE	3	29	19	53	2
16	AOV-620-PL PL-CLB INJEC	CLOSE	3	29	19	53	4
17	AOV-100-PR PR RELIEF	OPEN	3	29	20	0	25
18	AOV-110-PR PR SAFTY	OPEN	3	29	20	2	58
19	AOV-300-BU BU NO.1	OPEN	3	29	20	14	37
				Month	Day	Hour	Minute
							Second

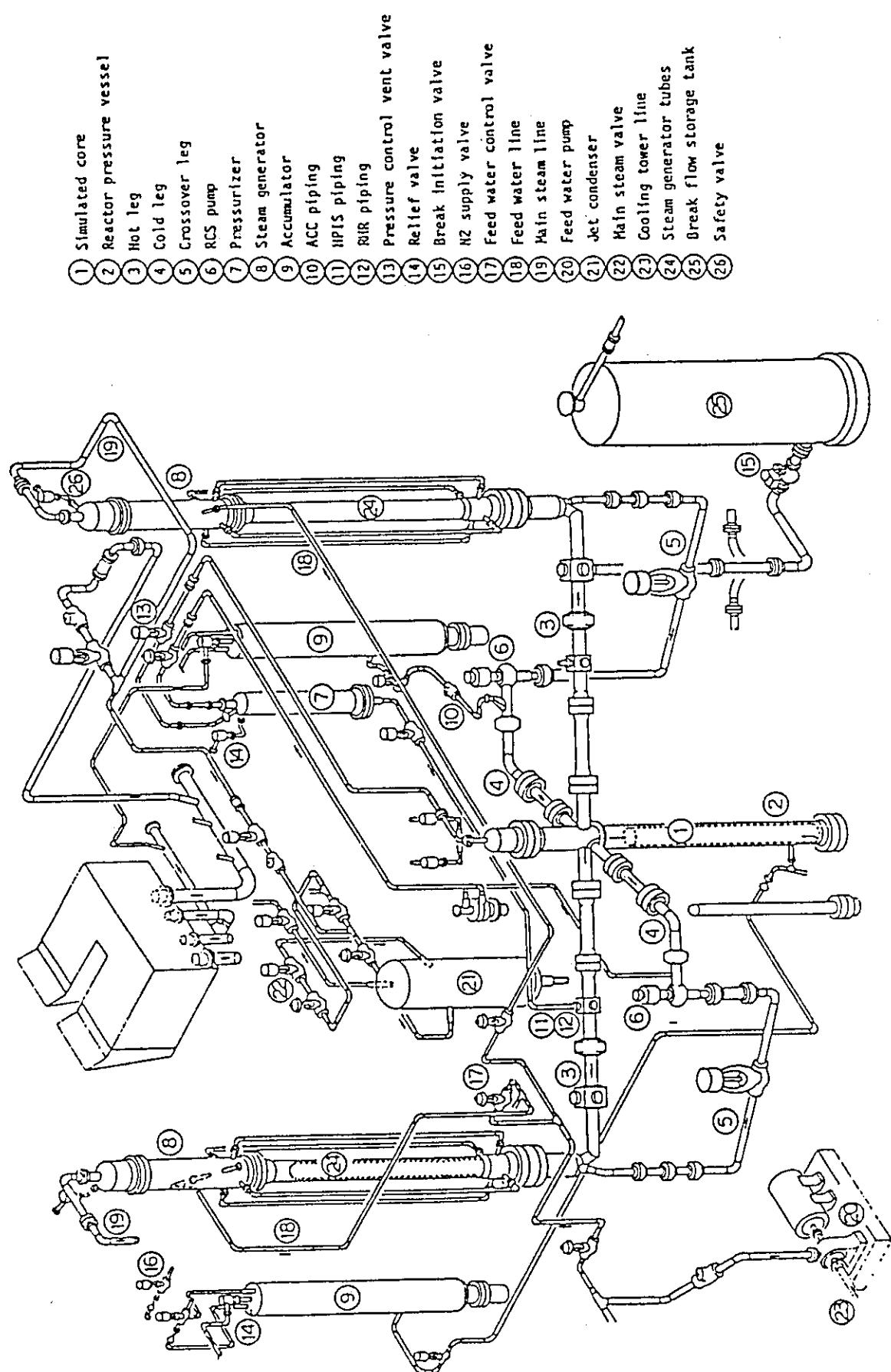


Fig. 2.1 Schematic of ROSA-IV Large Scale Test Facility (LSTF)

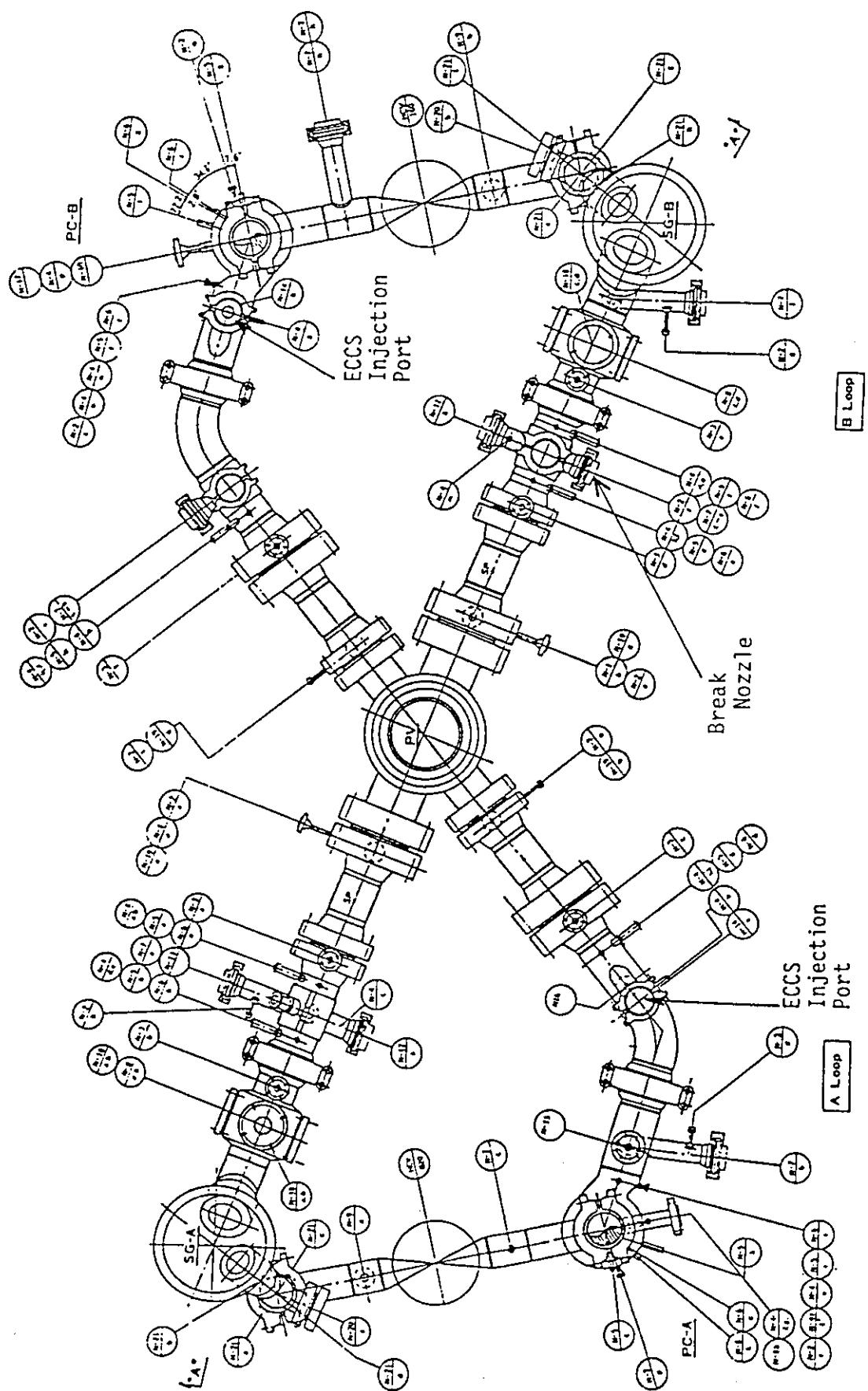


Fig. 4.1 Break Location

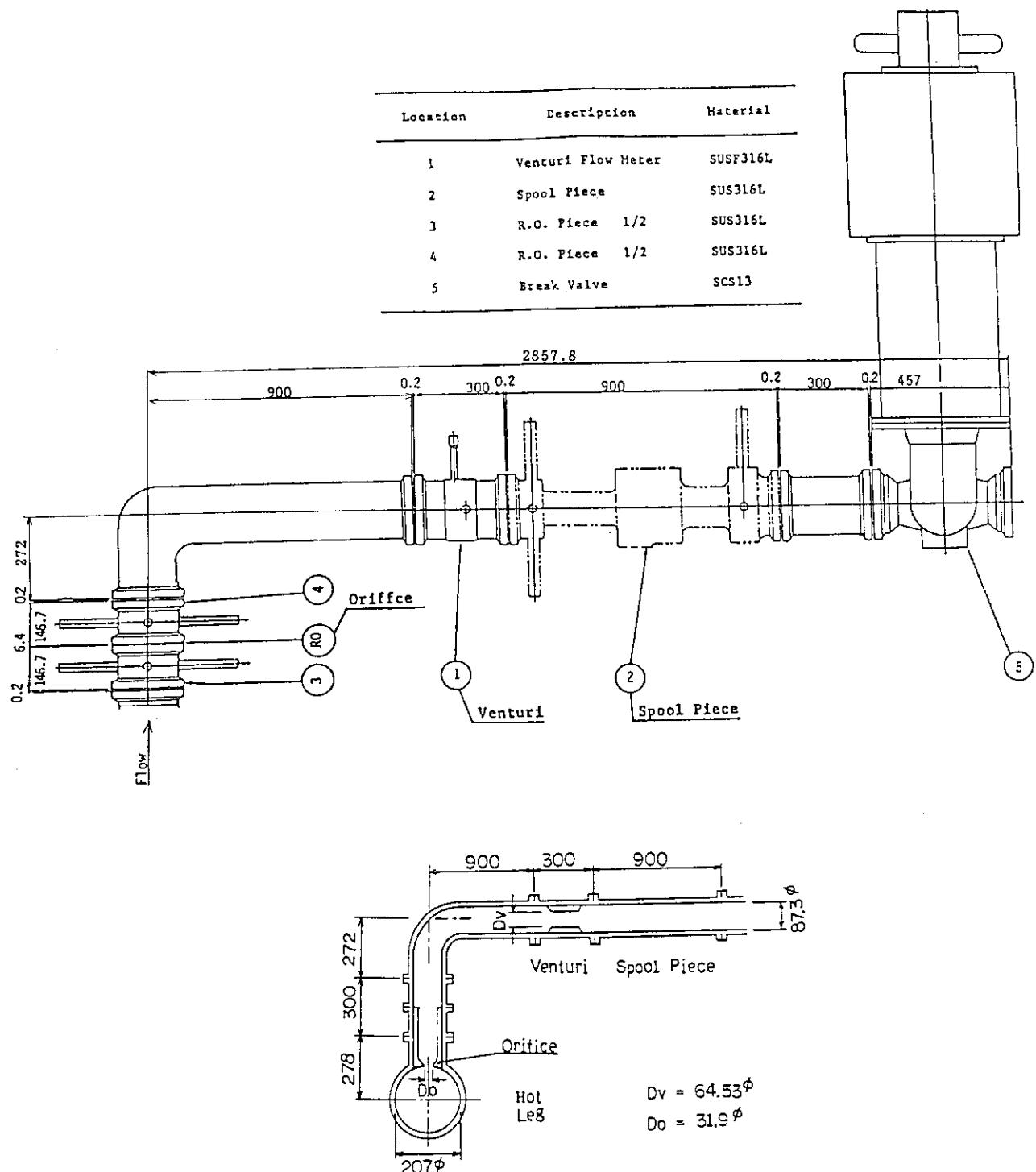
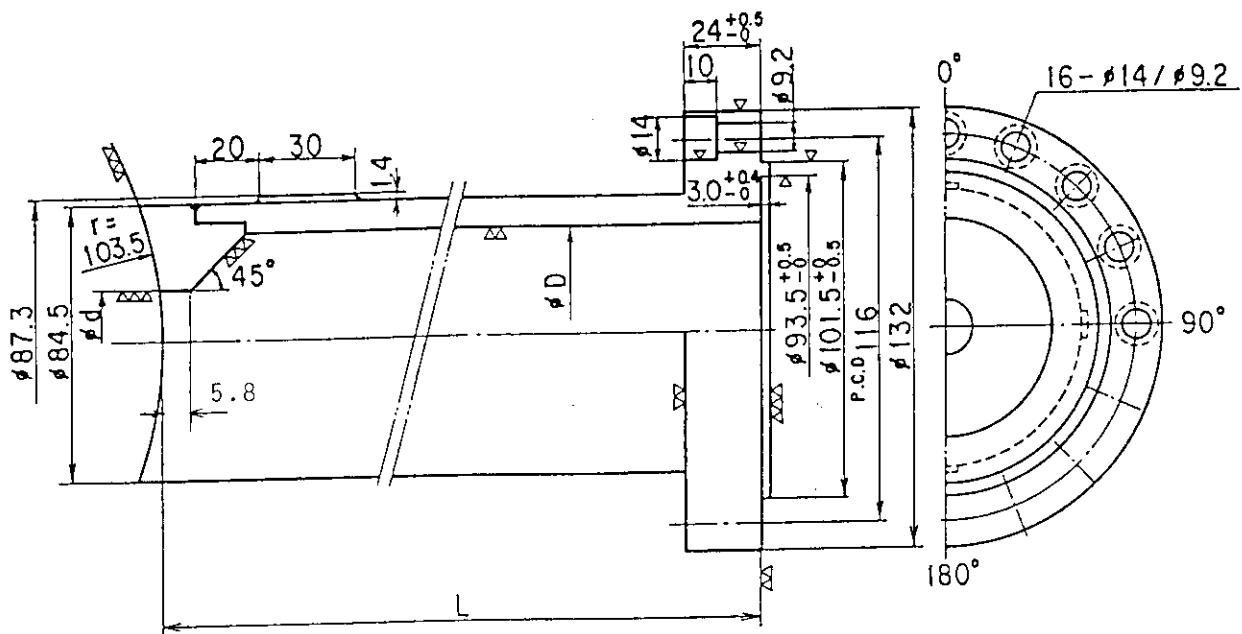


Fig. 4.2 Break Unit Geometry



	d	D	L
Na 1	7.2	60.0	338.3
Na 2	7.2	60.0	350.8
Na 3	7.2	60.0	506.8
Na 4	16.0	65.0	338.3
Na 5	16.0	65.0	350.8
Na 6	16.0	65.0	506.8
Na 7	31.9	65.0	338.3
Na 8	22.5	65.0	350.8
Na 9	22.5	65.0	506.8

Fig. 4.3 Break Orifice Geometry

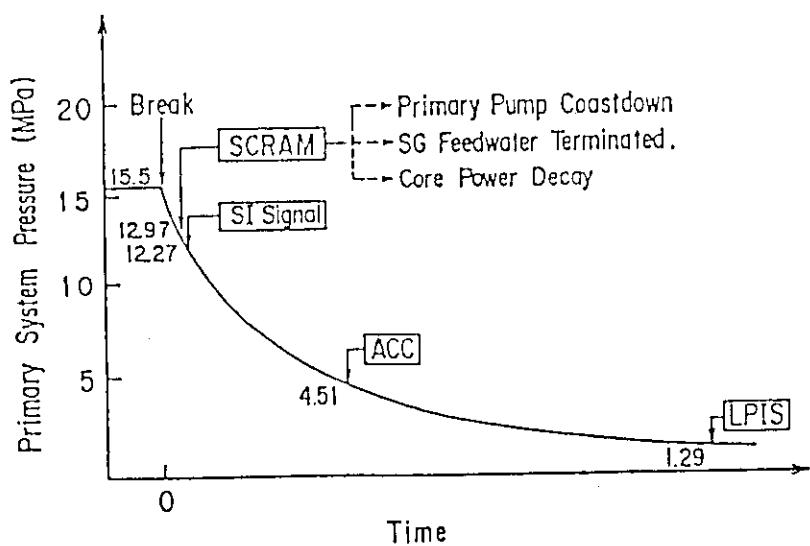


Fig. 4.4 LSTF Standard Operational Setpoints

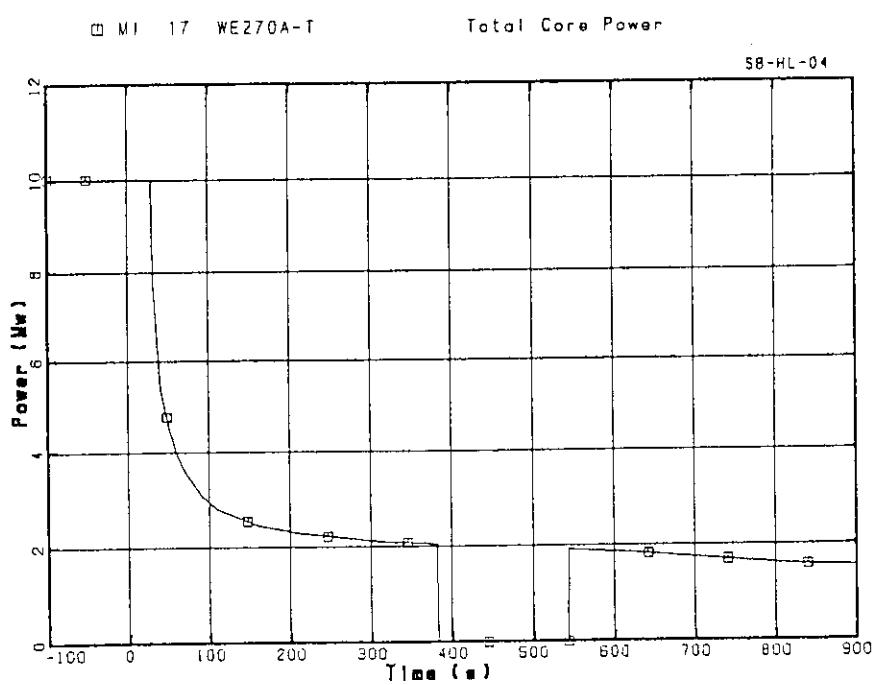


Fig. 4.5 Total Core Power

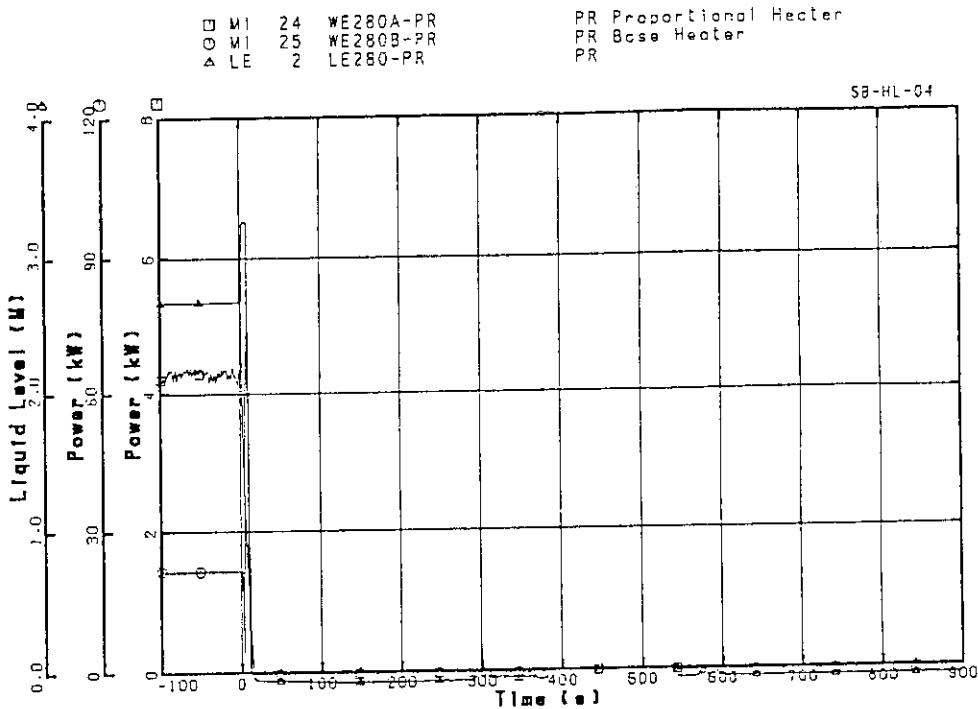


Fig. 4.6 Pressurizer Heater Powers and Water Level

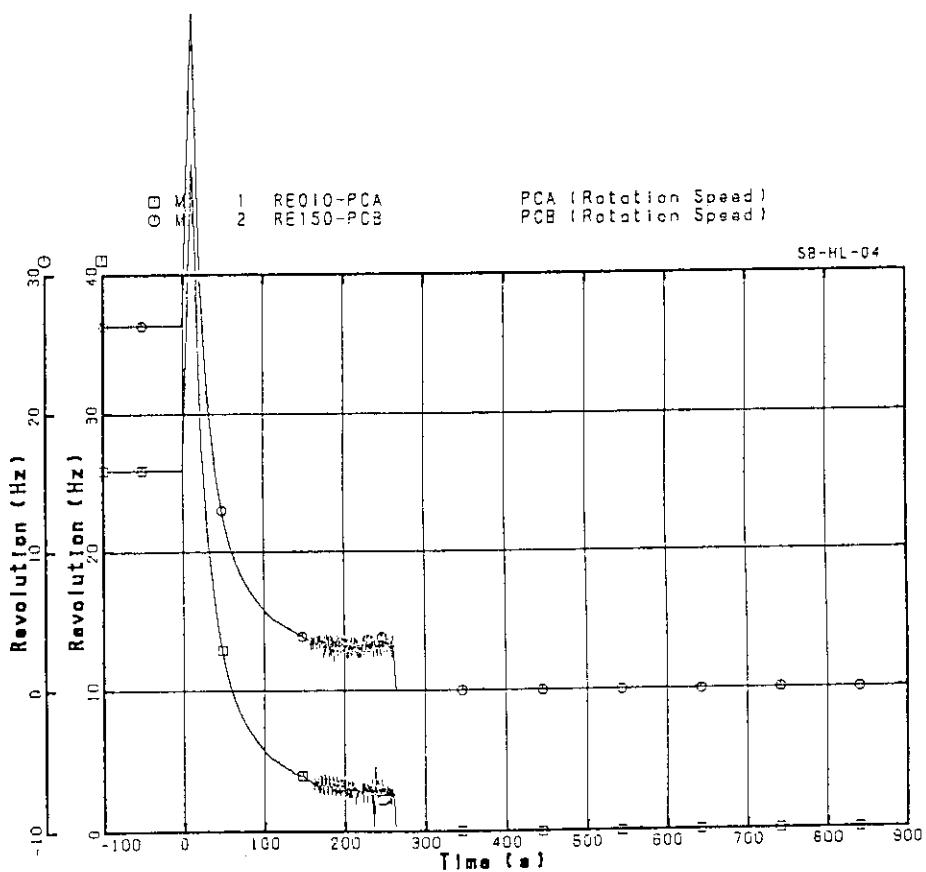


Fig. 4.7 Primary Coolant Pump Rotational Speeds

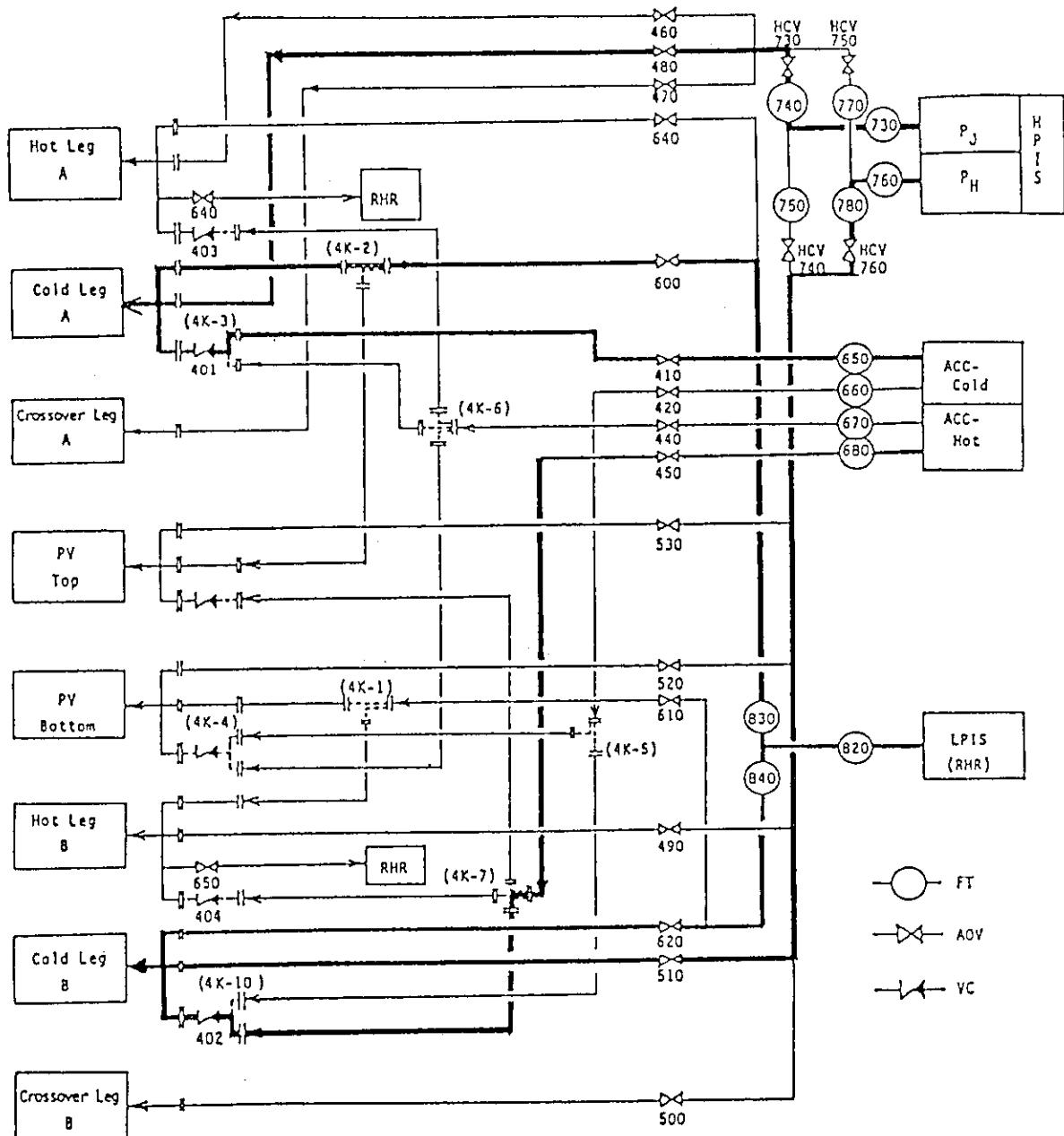


Fig. 4.8 ECCS Line Connections

プログラム曲線設定画面1
名称 Q-Hカーブ (PL)

実験番号 SB-HL-04

	X (MPa)	Y (Kg/S)	X (MPa)	Y (Kg/S)	X (MPa)	Y (Kg/S)
1	0.000	5.910				
2	.100	5.910				
3	.340	5.120				
4	.750	3.940				
5	1.030	2.620				
6	1.220	1.310				
7	1.260	.650				
8	1.290	0.000				
9	1.300	0.000				
10	1.350	0.000				
11	1.400	0.000			レンジ	
12	1.450	0.000			RL	0.000
13	1.600	0.000			RU	2.000
14	20.000	0.000				6.000

データ設定

プログラム曲線設定画面2 名称 Q-Hカーブ (PL)
(X10**-2) 600.0
(Kg/S)

実験番号 SB-HL-04

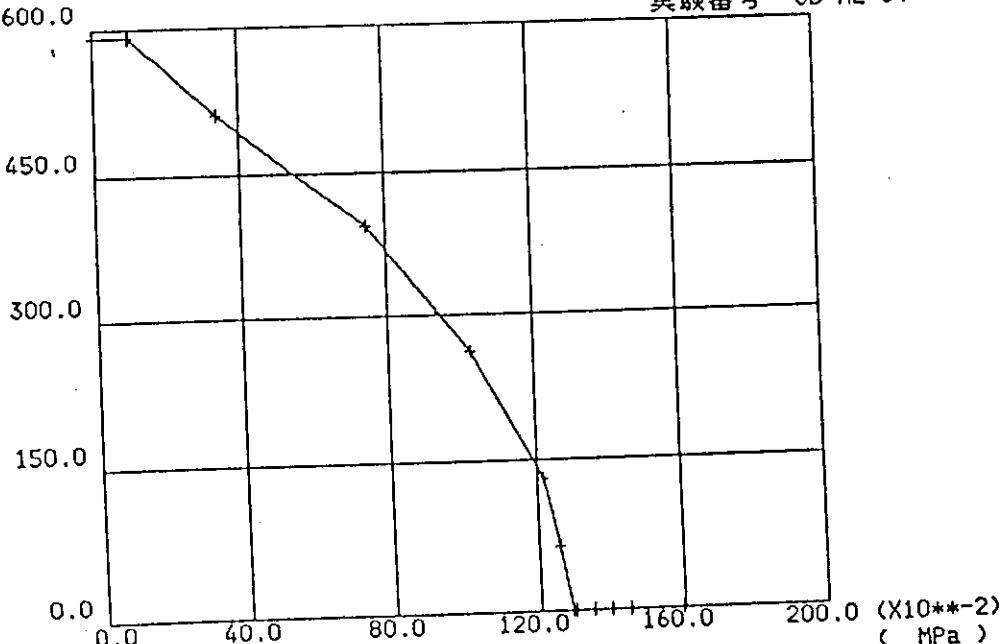


Fig. 4.9 LPI Flow Rate vs. Pressure

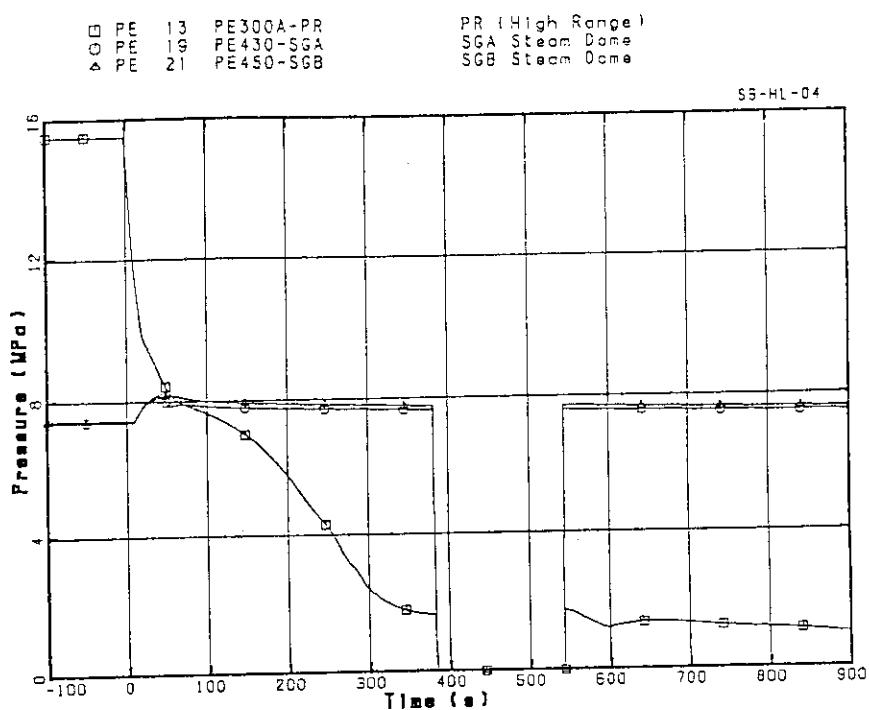


Fig. 5.1 Comparison between Primary and Secondary Pressures (1)

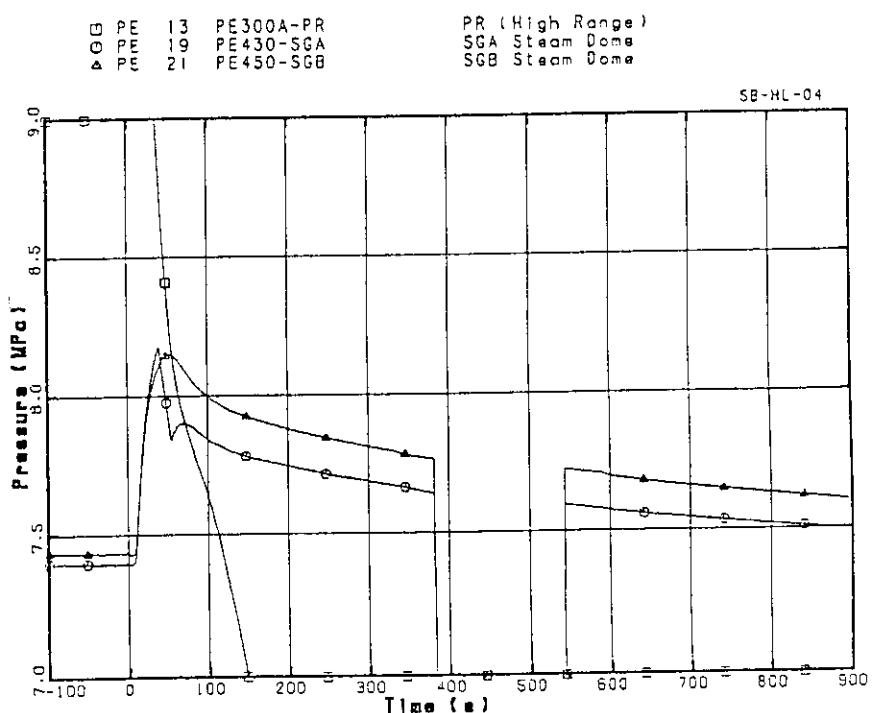


Fig. 5.2 Comparison between Primary and Secondary Pressures (2)

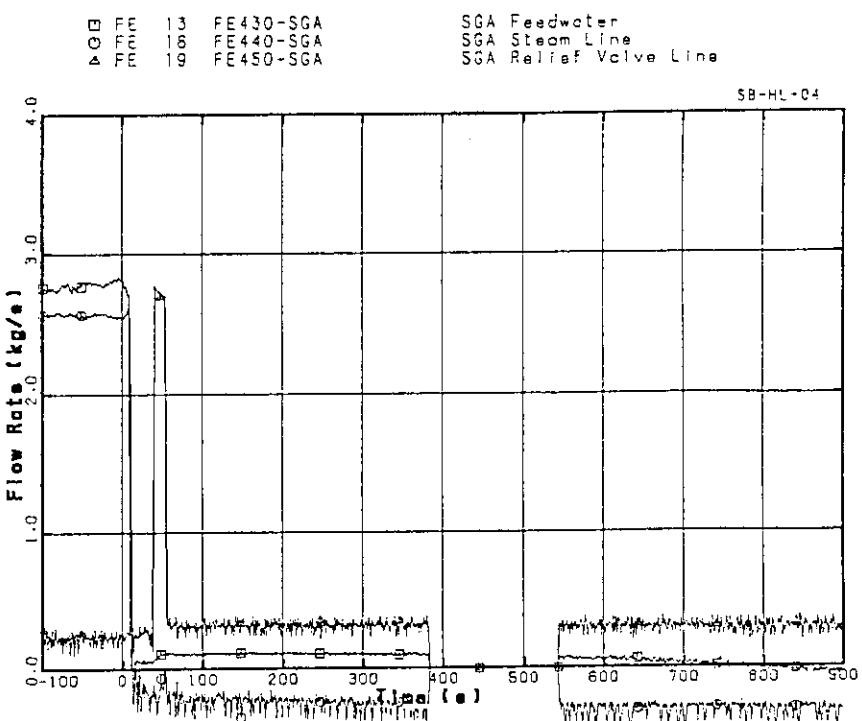


Fig. 5.3 SG-A Feedwater and Steam Flow Rates

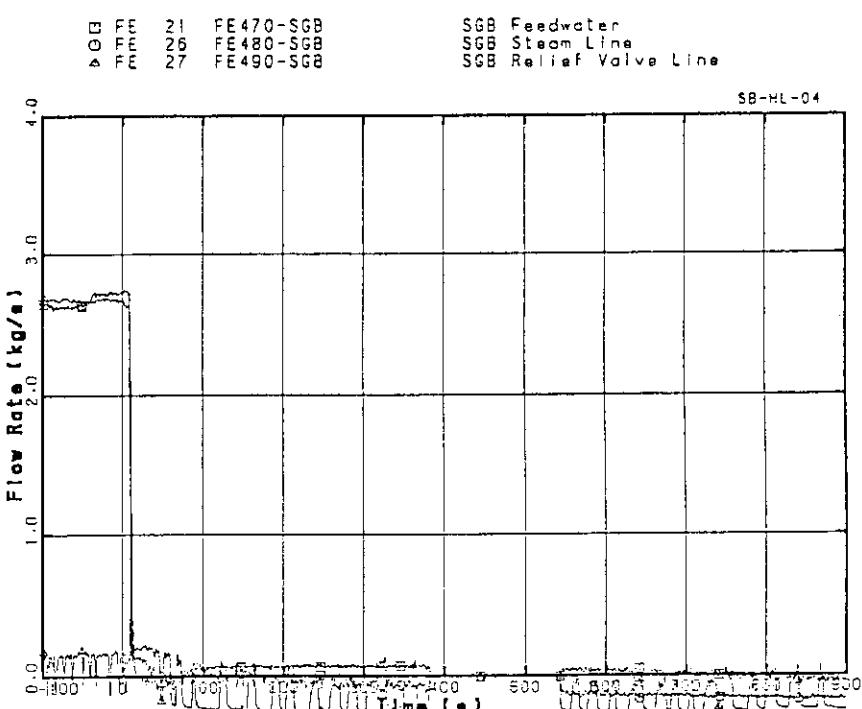


Fig. 5.4 SG-B Feedwater and Steam Flow Rates

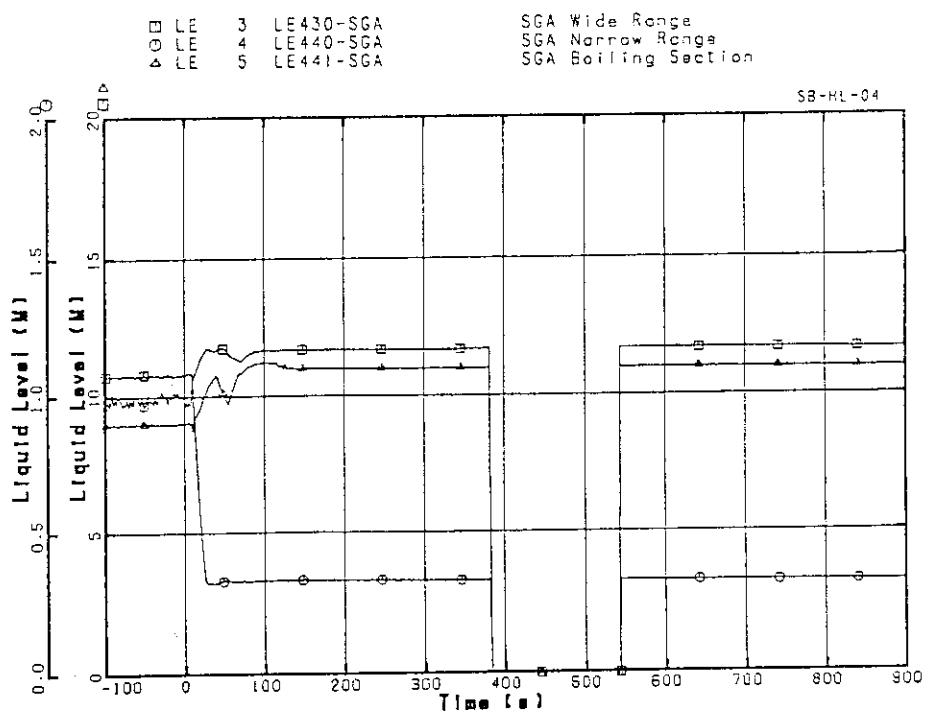


Fig. 5.5 SG-A Secondary Side Collapsed Water Level

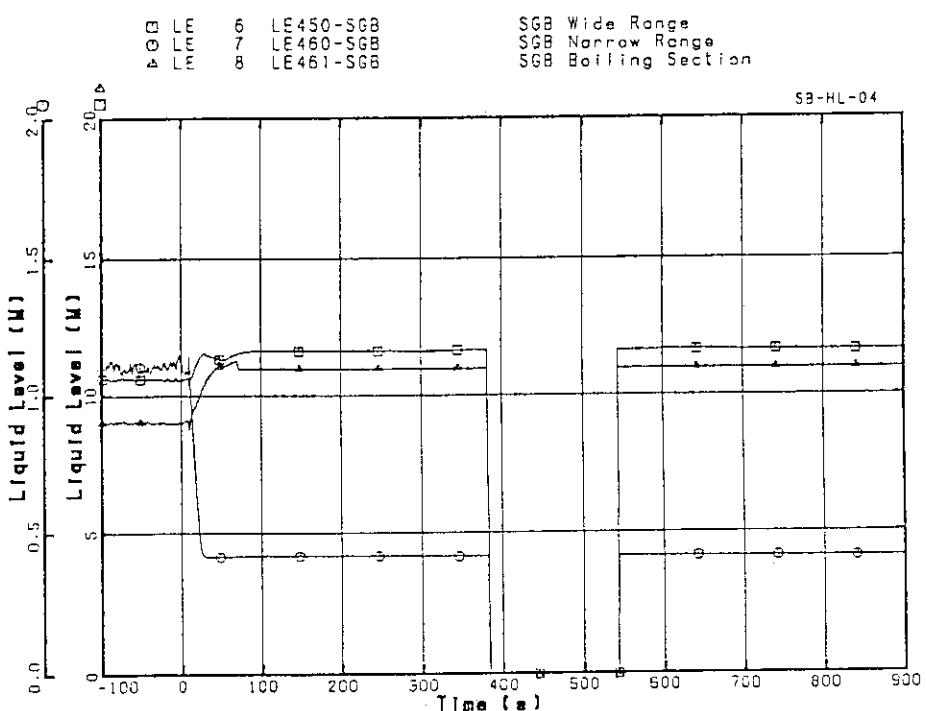


Fig. 5.6 SG-B Secondary Side Collapsed Water Level

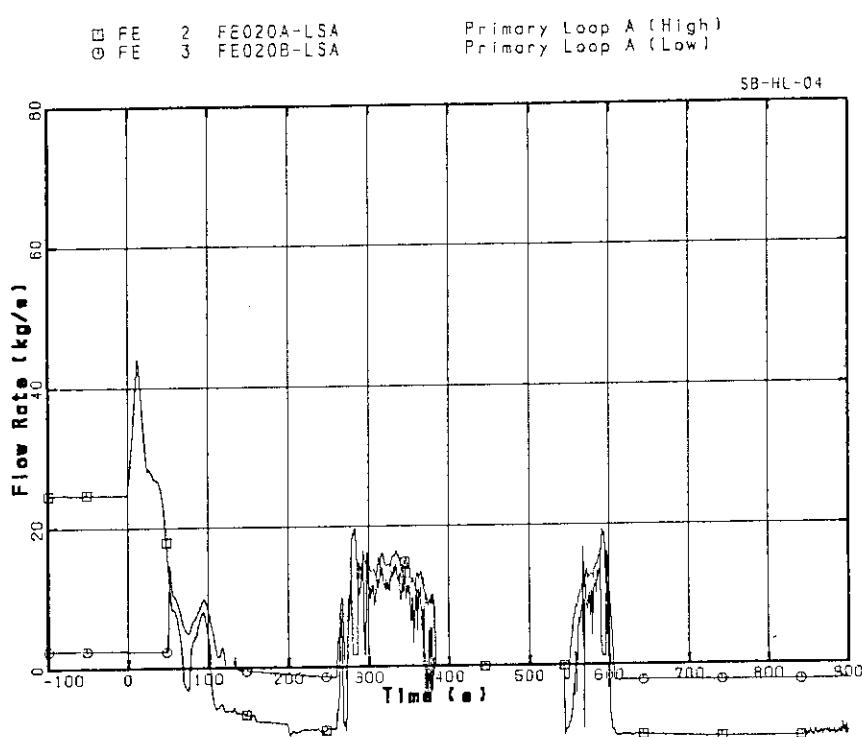


Fig. 5.7 Loop-A Pump Suction Leg Flow Rate

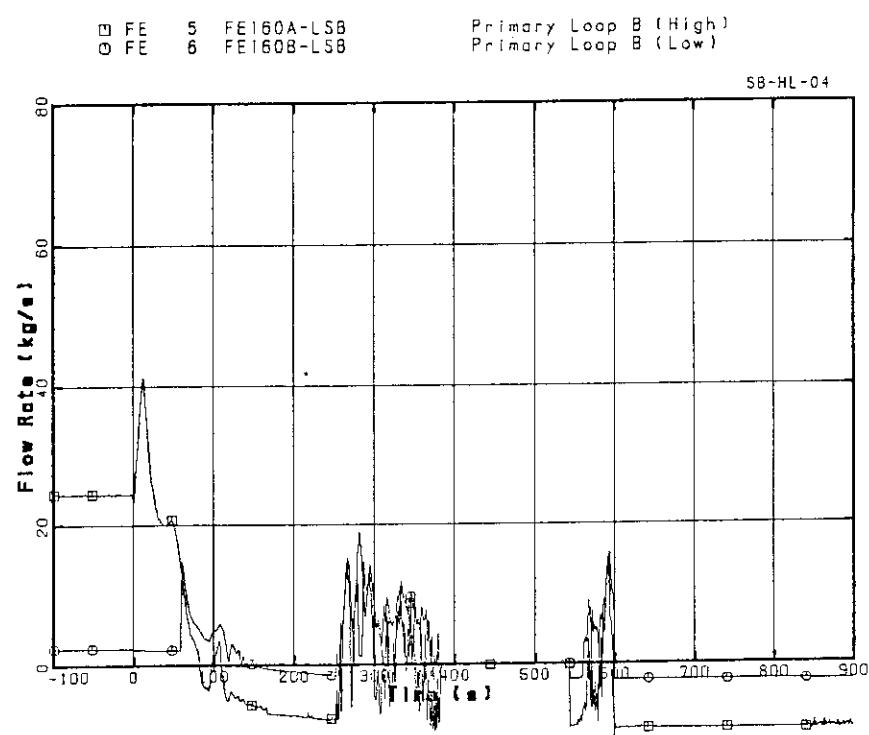


Fig. 5.8 Loop-B Pump Suction Leg Flow Rate

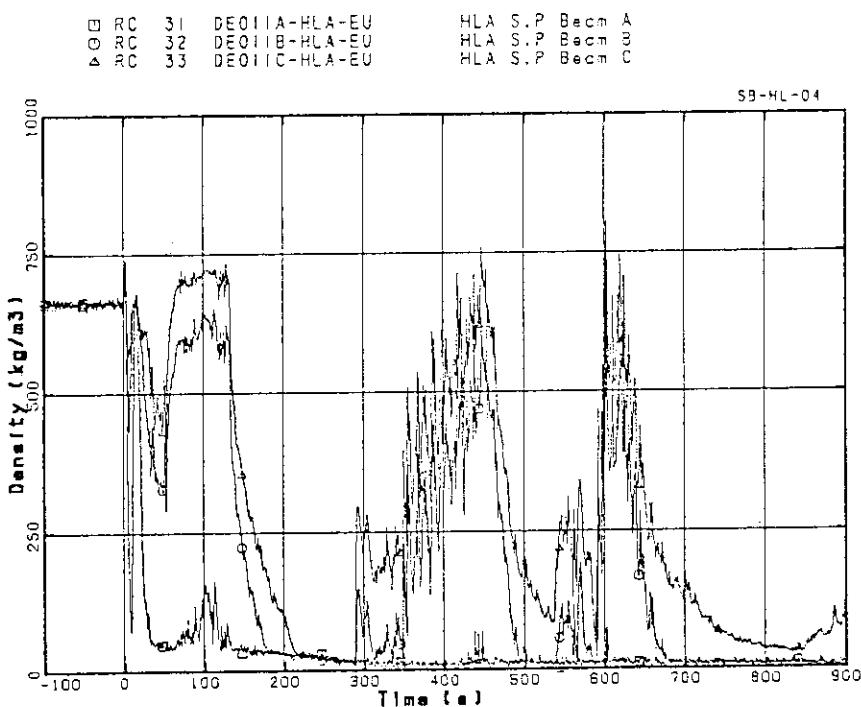


Fig. 5.9 Loop-A Hot Leg Fluid Densities

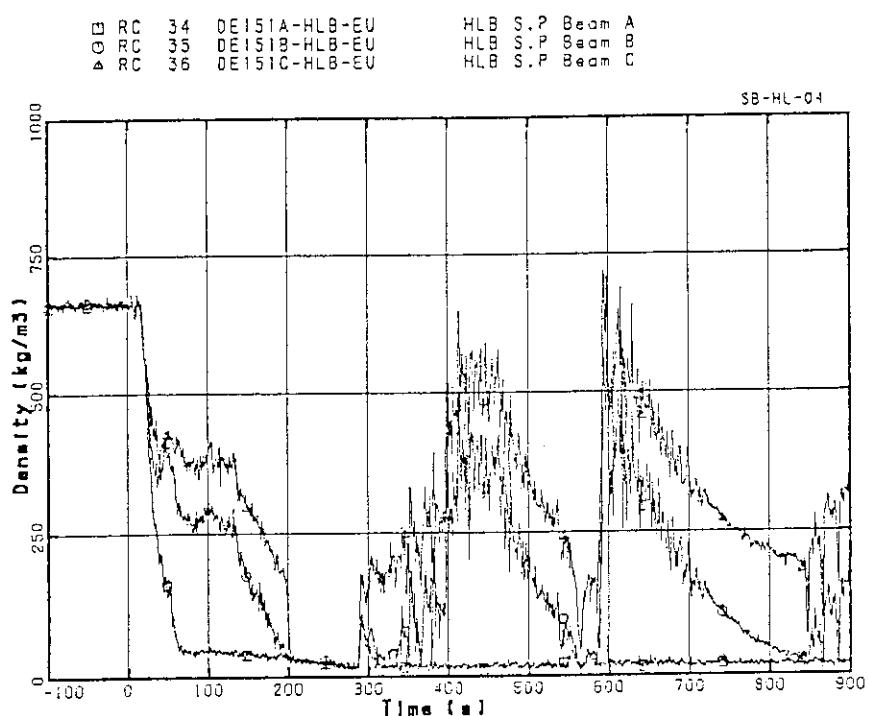


Fig. 5.10 Loop-B Hot Leg Fluid Densities

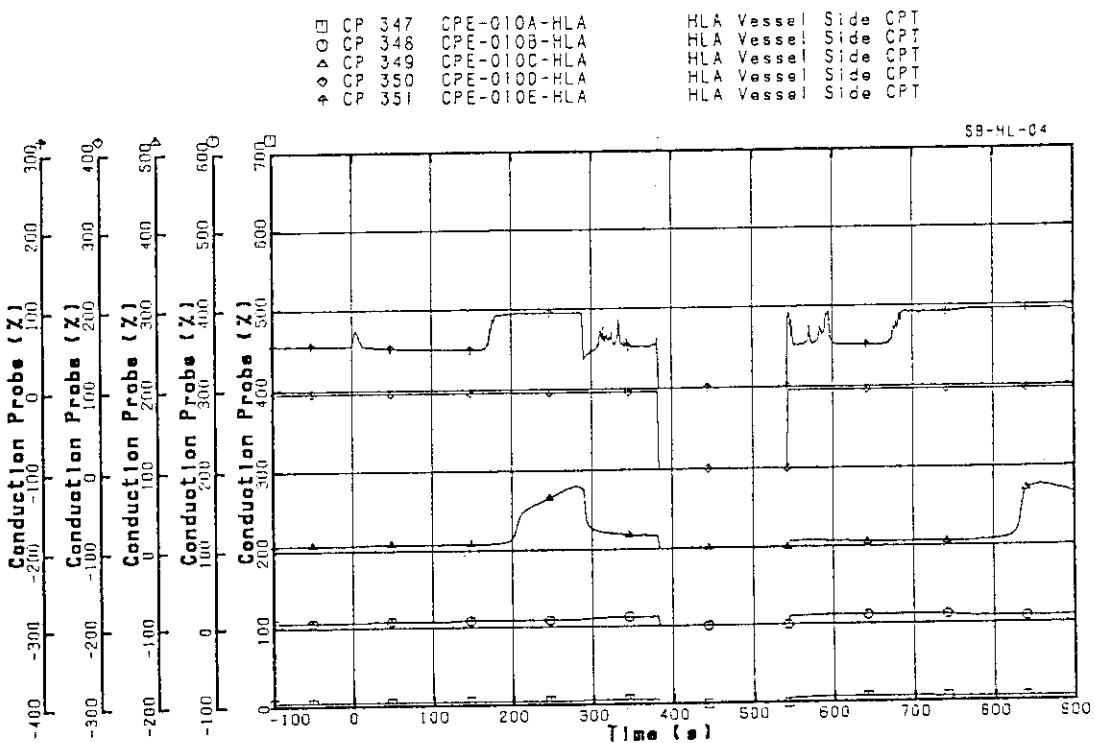


Fig. 5.11 Loop-A Hot Leg Vessel-Side Conduction Probe Signals

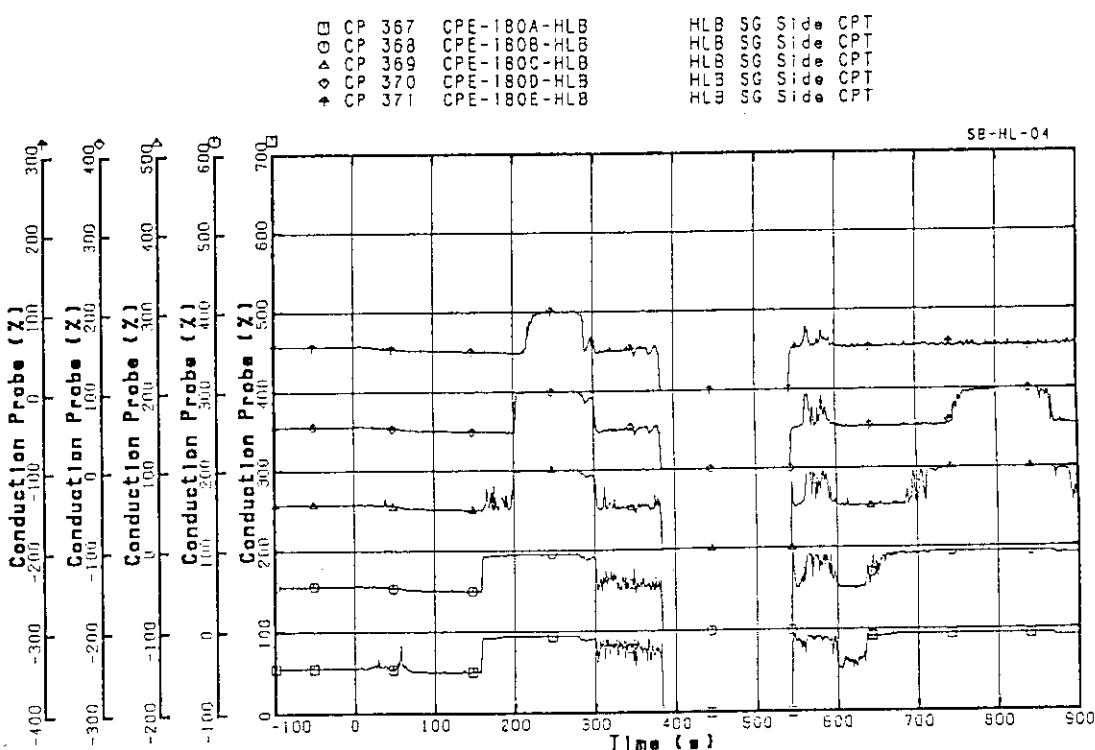


Fig. 5.12 Loop-B Hot Leg SG-Side Conduction Probe Signals

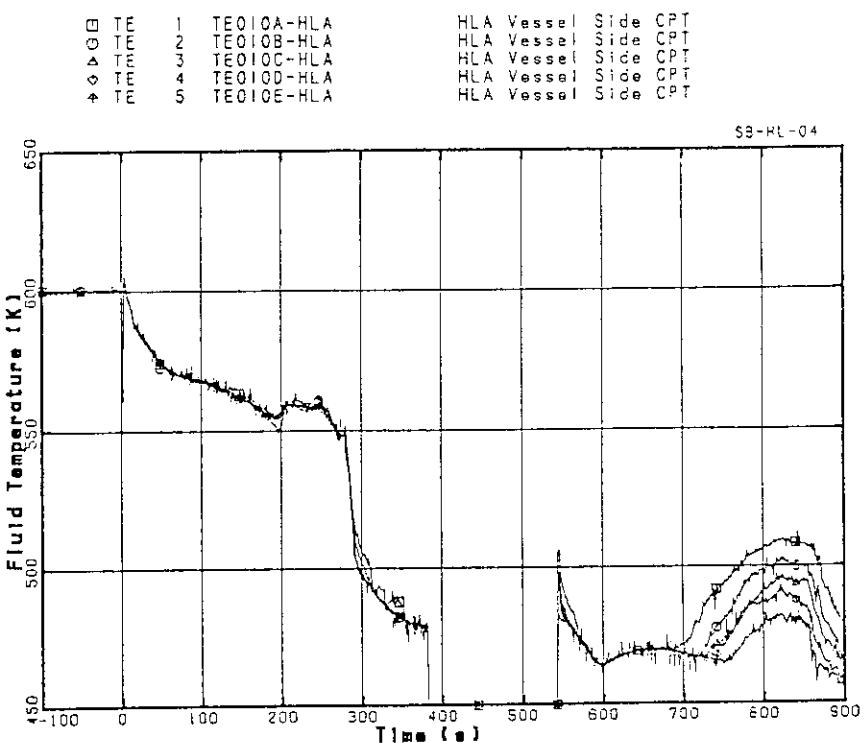


Fig. 5.13 Loop-A Hot Leg Fluid Temperatures

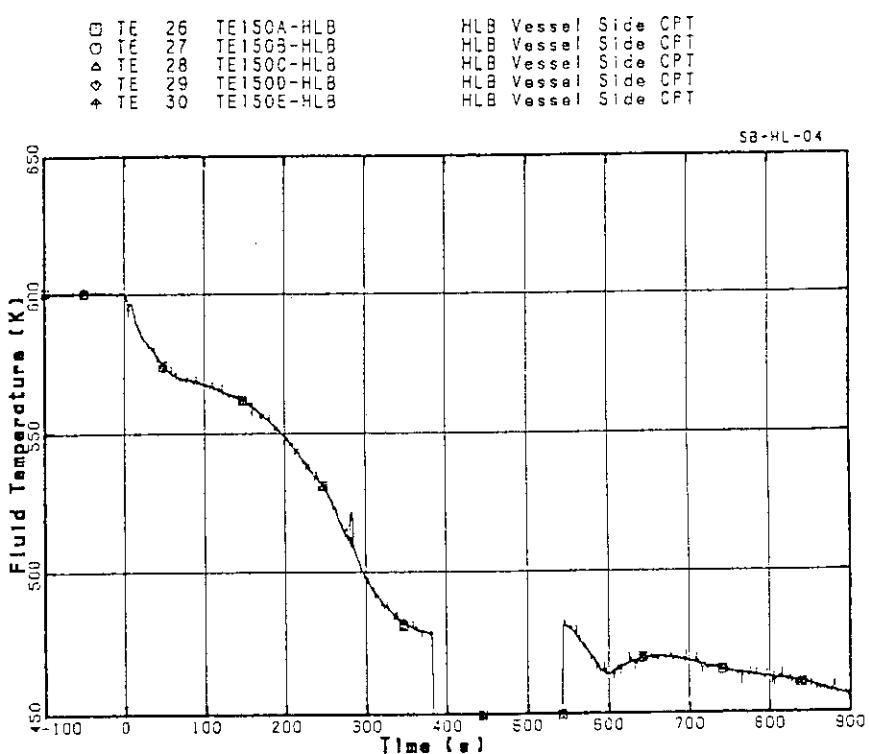


Fig. 5.14 Loop-B Hot Leg Fluid Temperatures

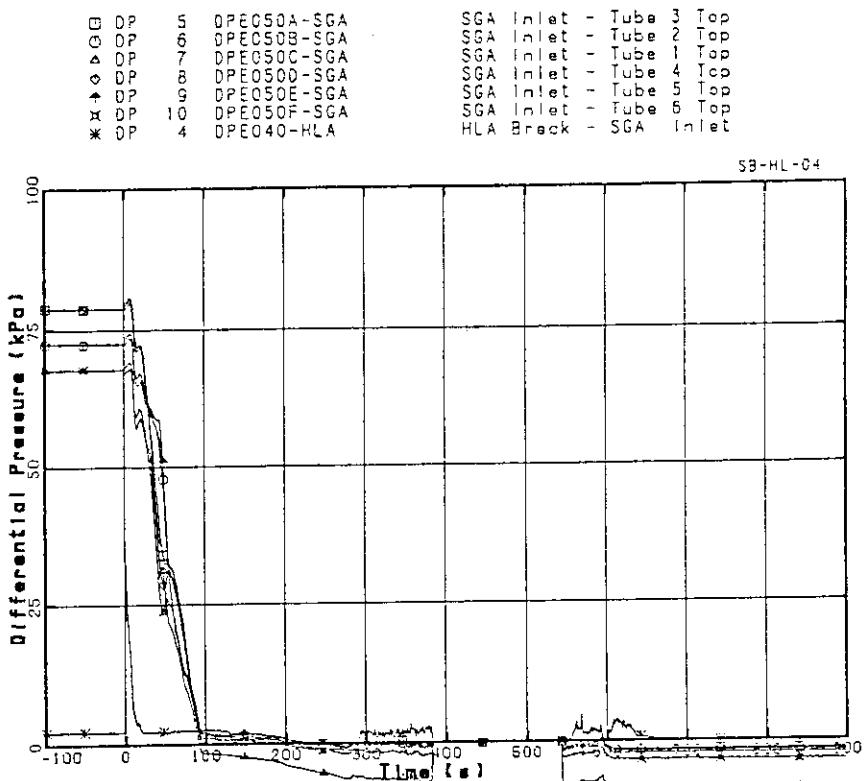


Fig. 5.15 SG-A Upflow-Side Differential Pressures

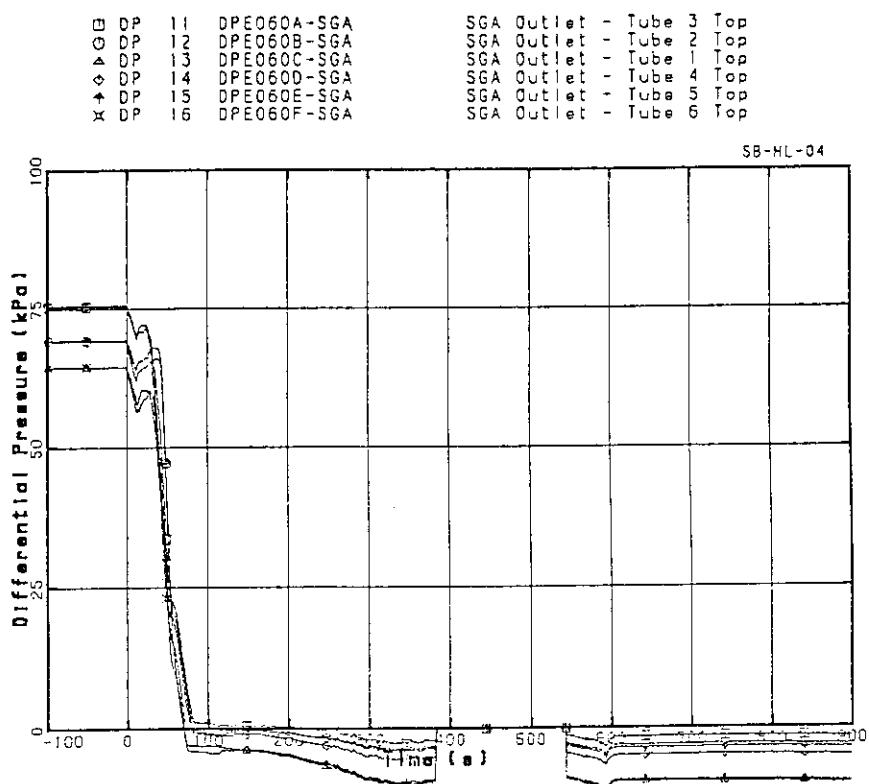


Fig. 5.16 SG-A Downflow-Side Differential Pressures

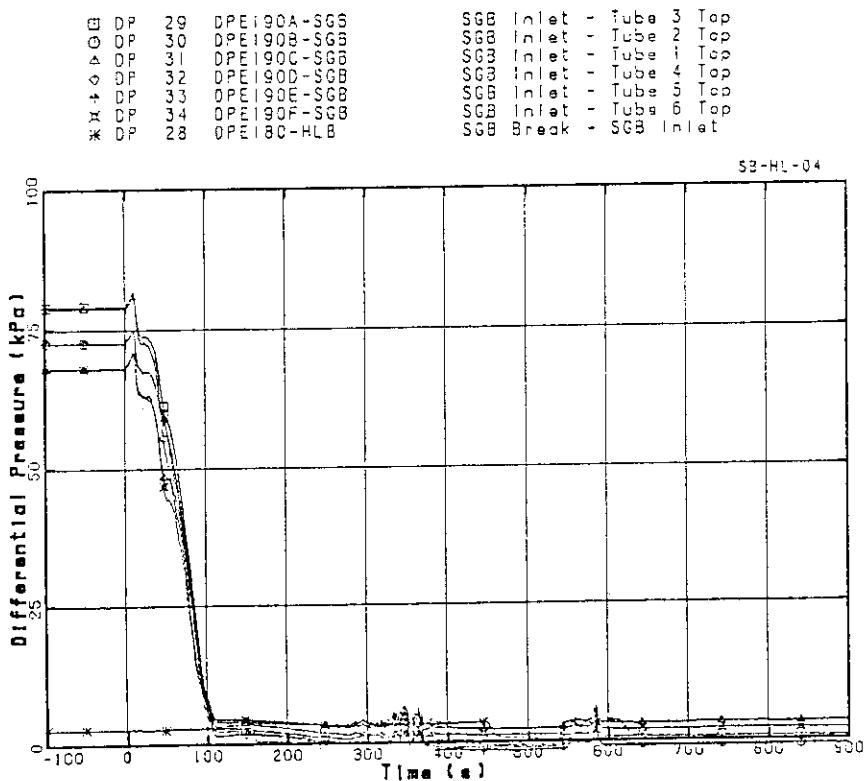


Fig. 5.17 SG-B Upflow-Side Differential Pressures

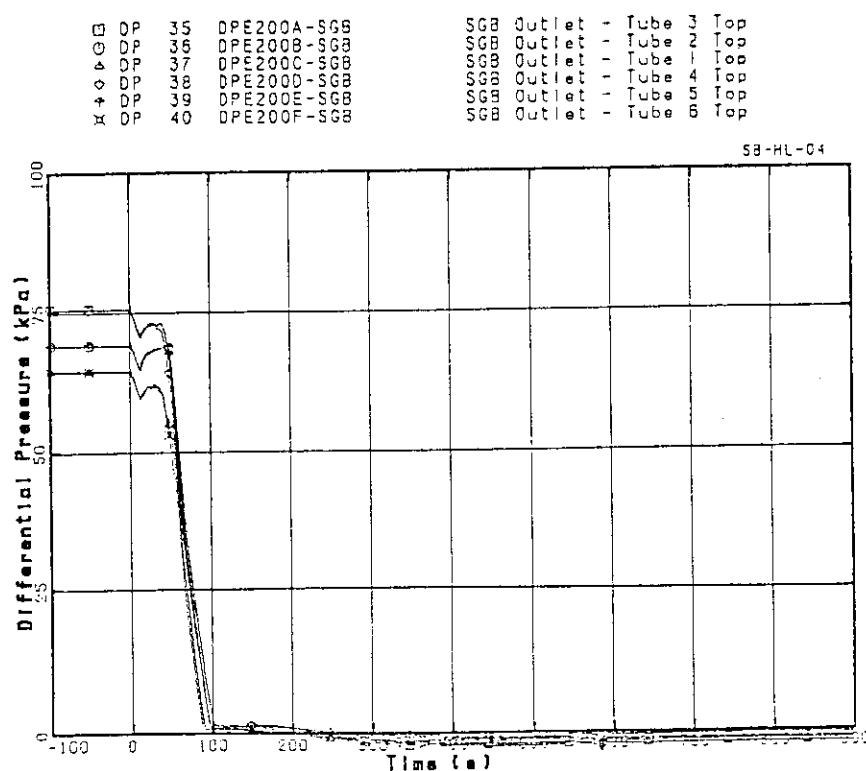


Fig. 5.18 SG-B Downflow-Side Differential Pressures

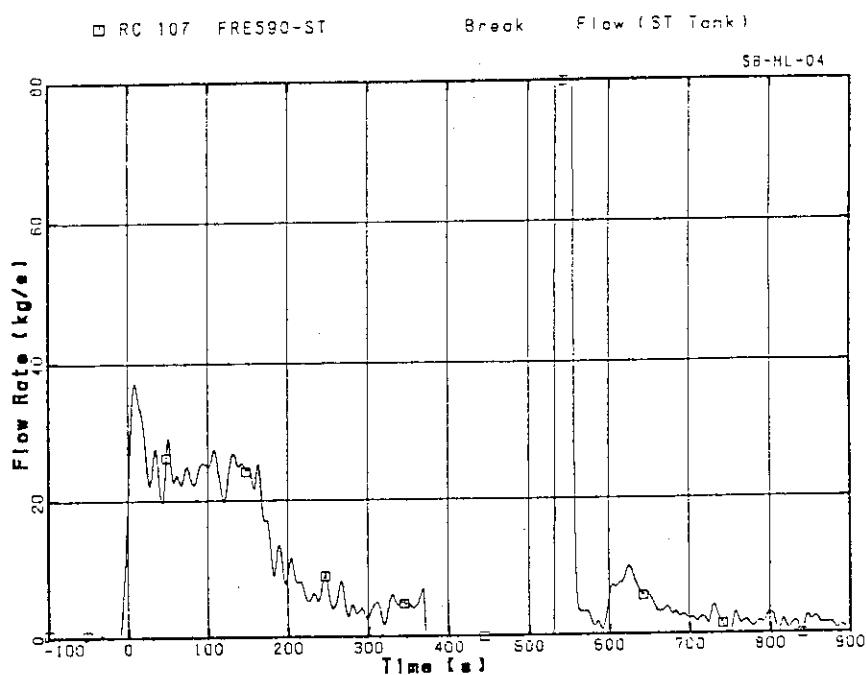


Fig. 5.19 Break Flow Rate Calculated from Catch Tank Level Rise

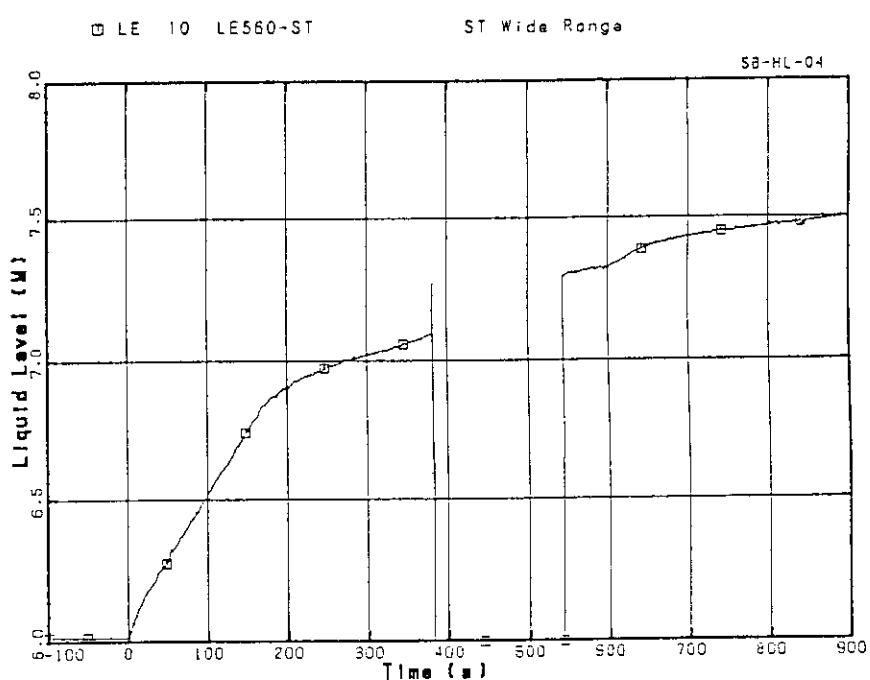


Fig. 5.20 Break-Flow Catch Tank Level

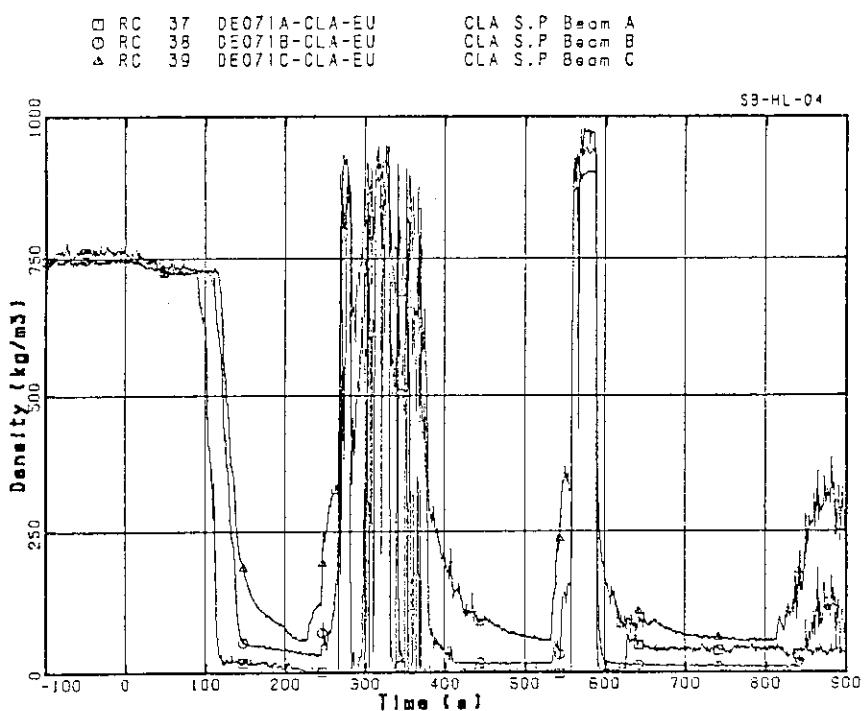


Fig. 5.21 Loop-A Cold Leg Fluid Densities

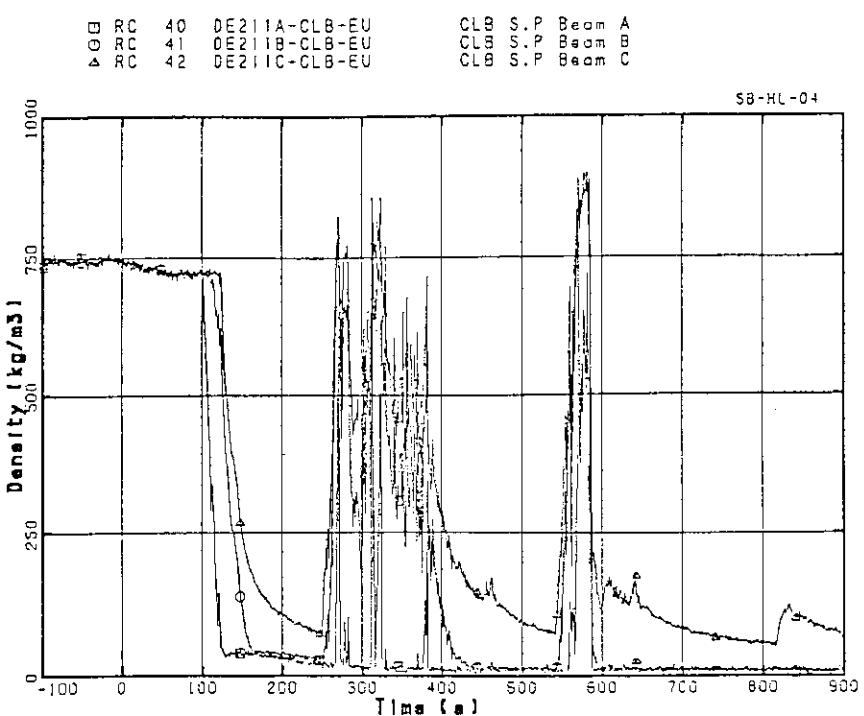


Fig. 5.22 Loop-B Cold Leg Fluid Densities

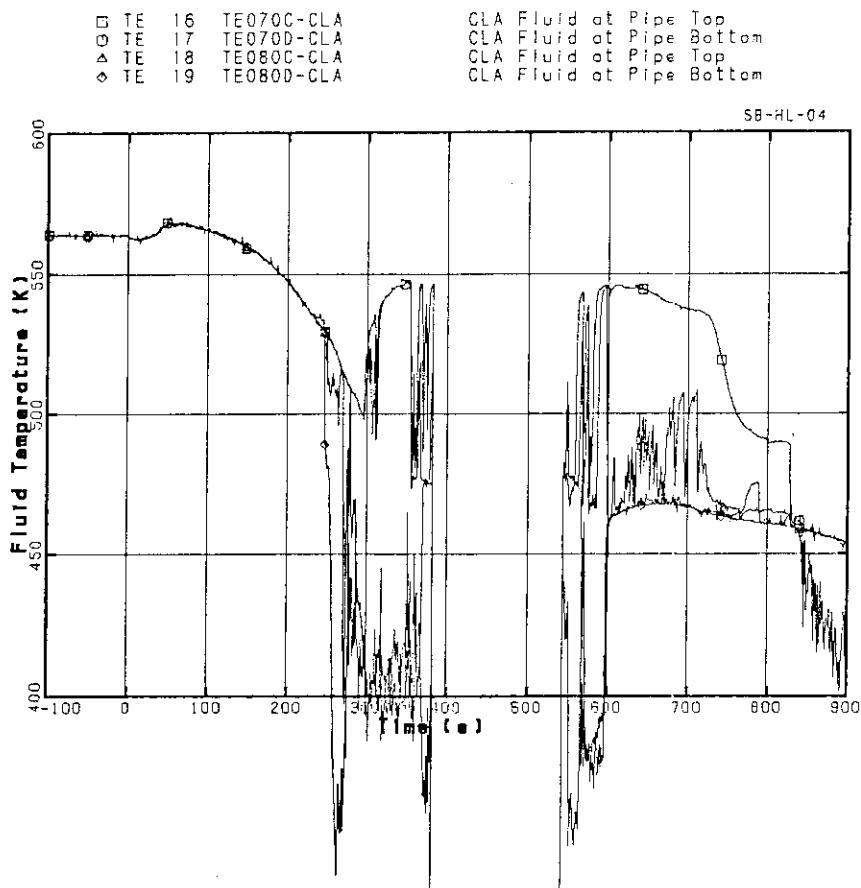


Fig. 5.23 Loop-A Cold Leg Fluid Temperatures

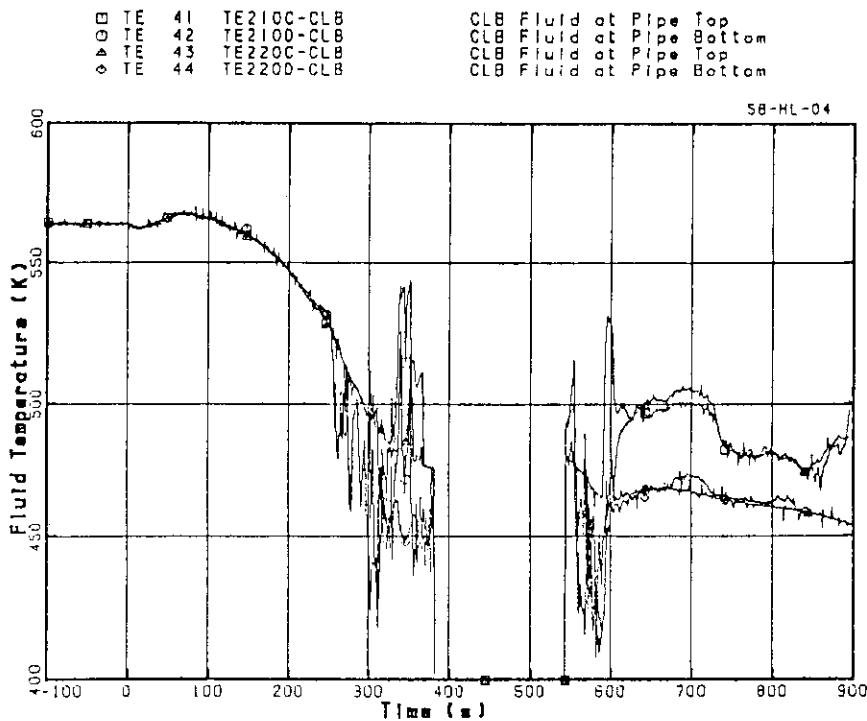


Fig. 5.24 Loop-B Cold Leg Fluid Temperatures

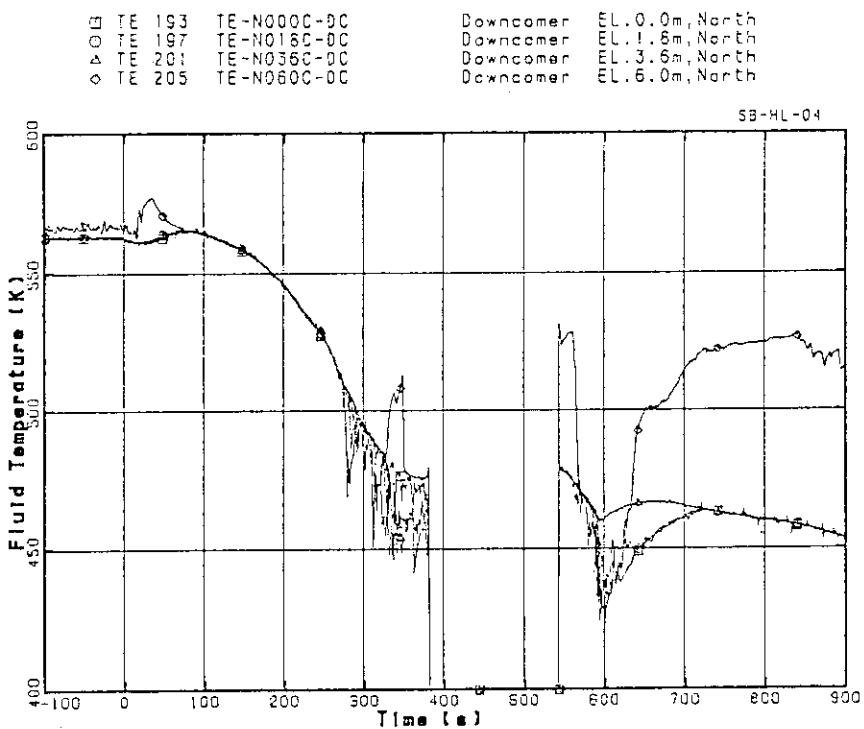


Fig. 5.25 Downcomer Fluid Temperatures

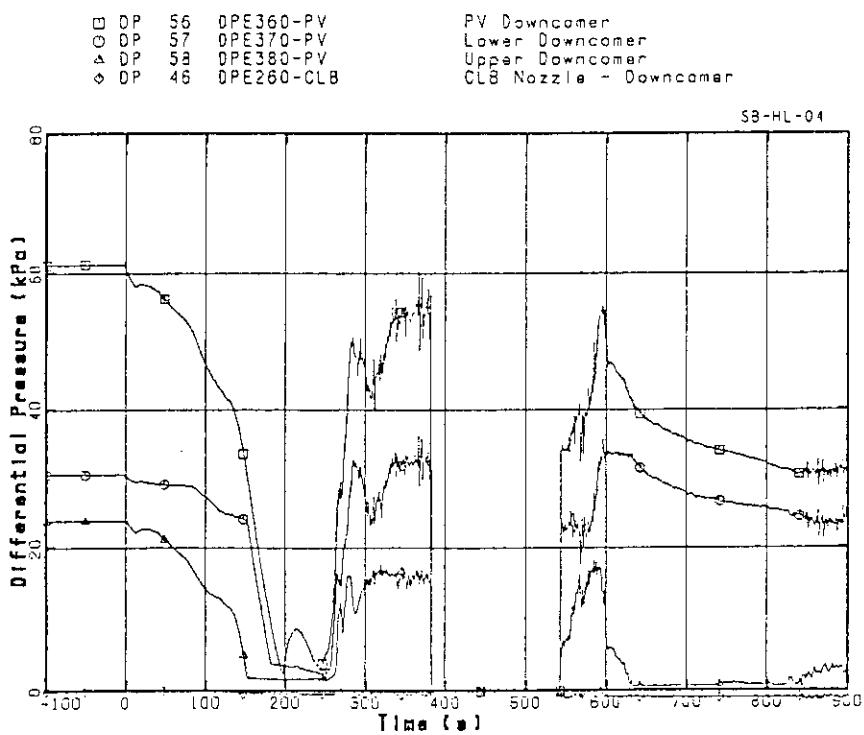


Fig. 5.26 Downcomer and Lower Plenum Differential Pressures

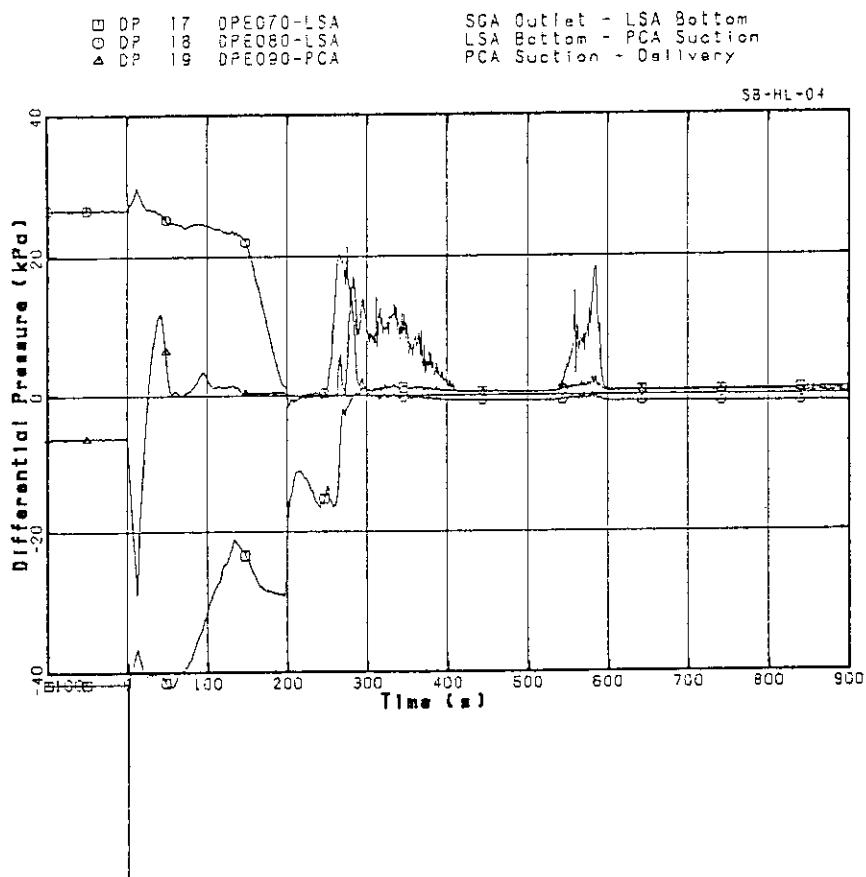


Fig. 5.27 Loop-A Loop Seal Differential Pressures

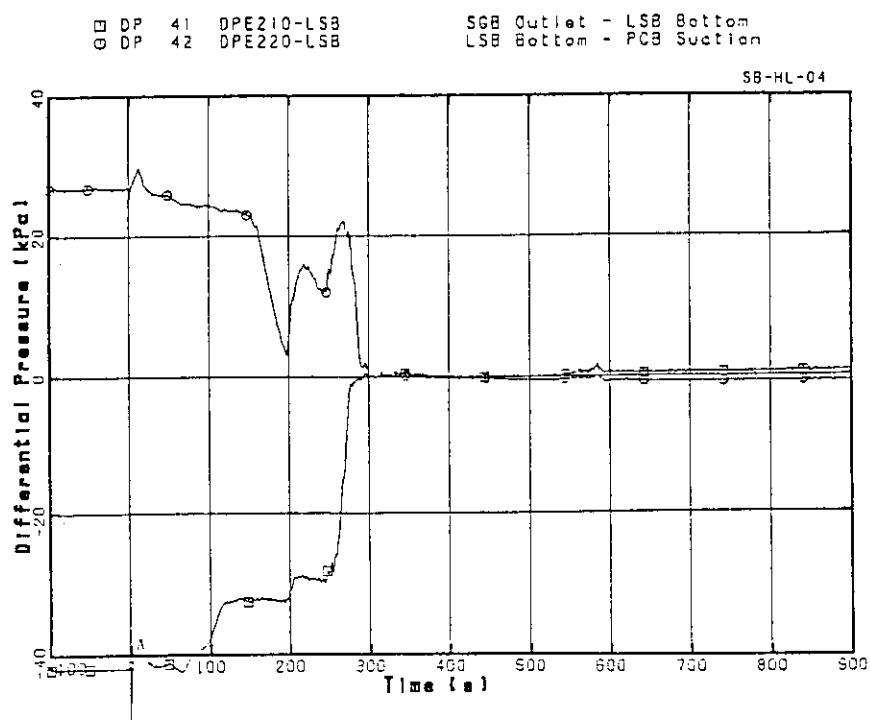


Fig. 5.28 Loop-B Loop Seal Differential Pressures

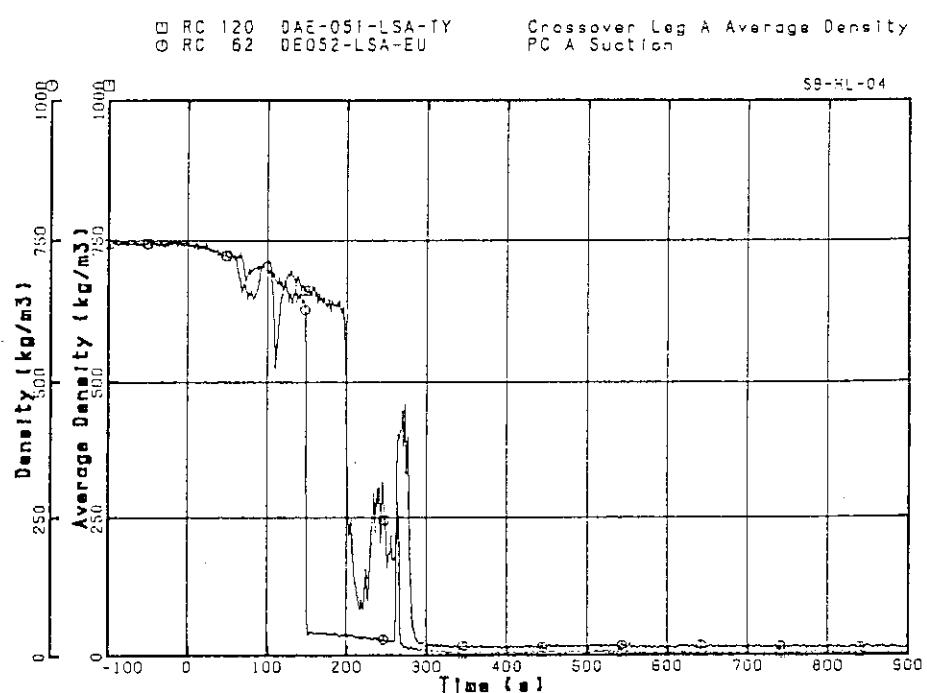


Fig. 5.29 Loop-A Loop Seal Fluid Densities

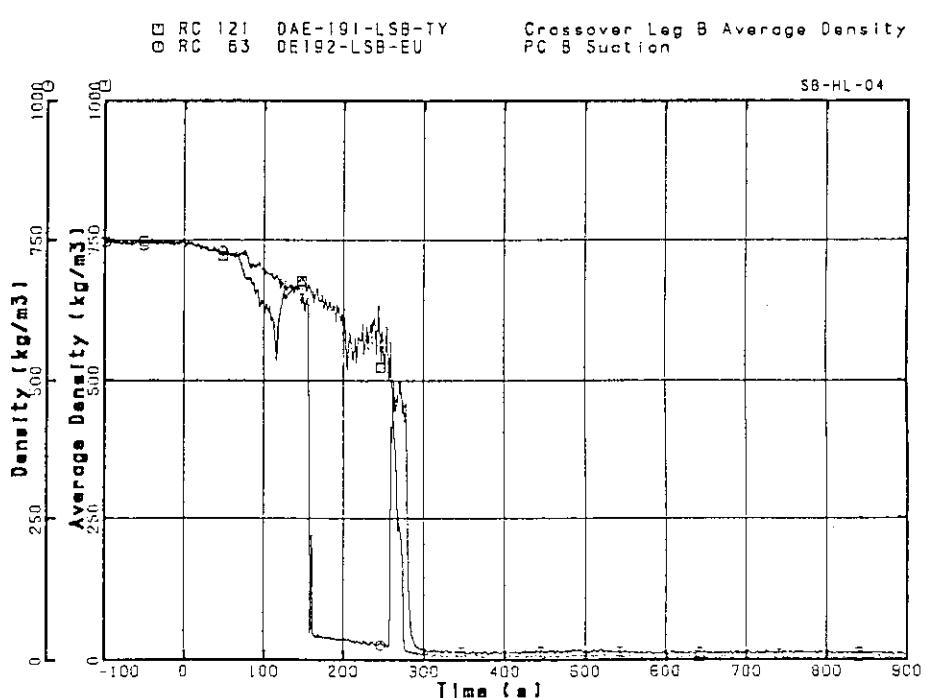


Fig. 5.30 Loop-B Loop Seal Fluid Densities

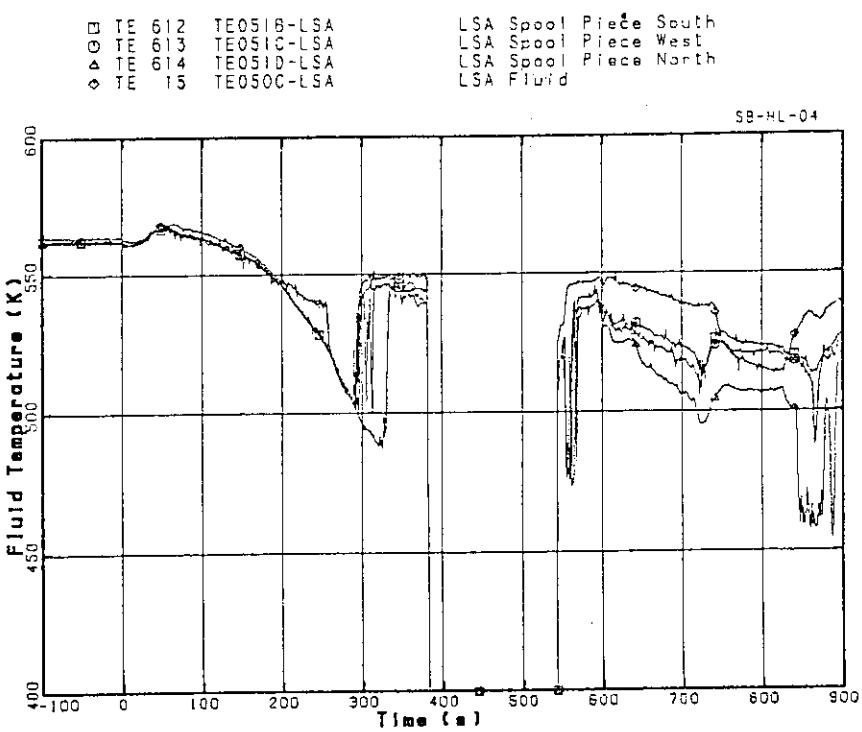


Fig. 5.31 Loop-A Loop Seal Fluid Temperatures

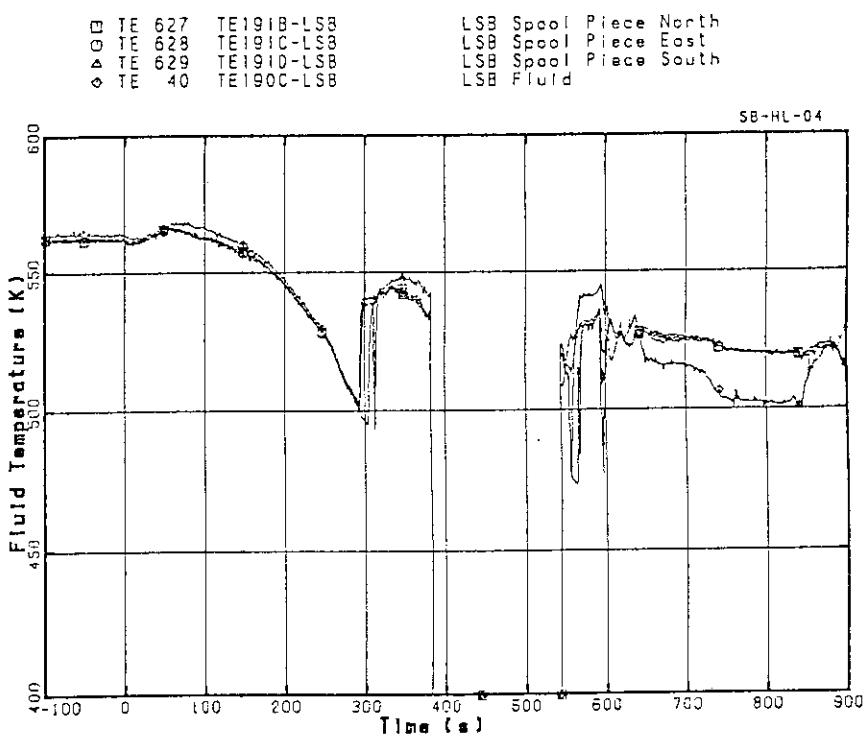


Fig. 5.32 Loop-B Loop Seal Fluid Temperatures

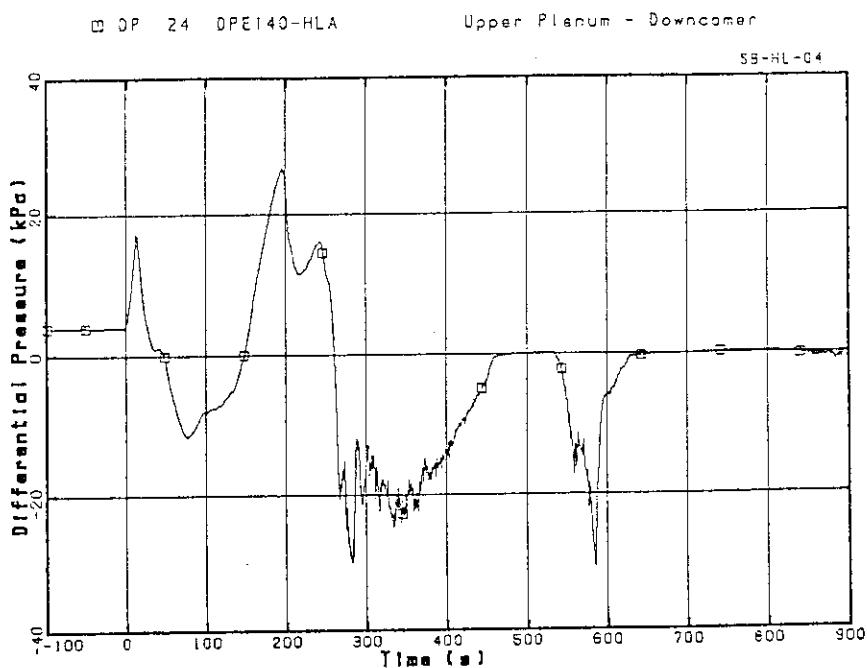


Fig. 5.33 Upper Plenum-to-Downcomer Differential Pressures

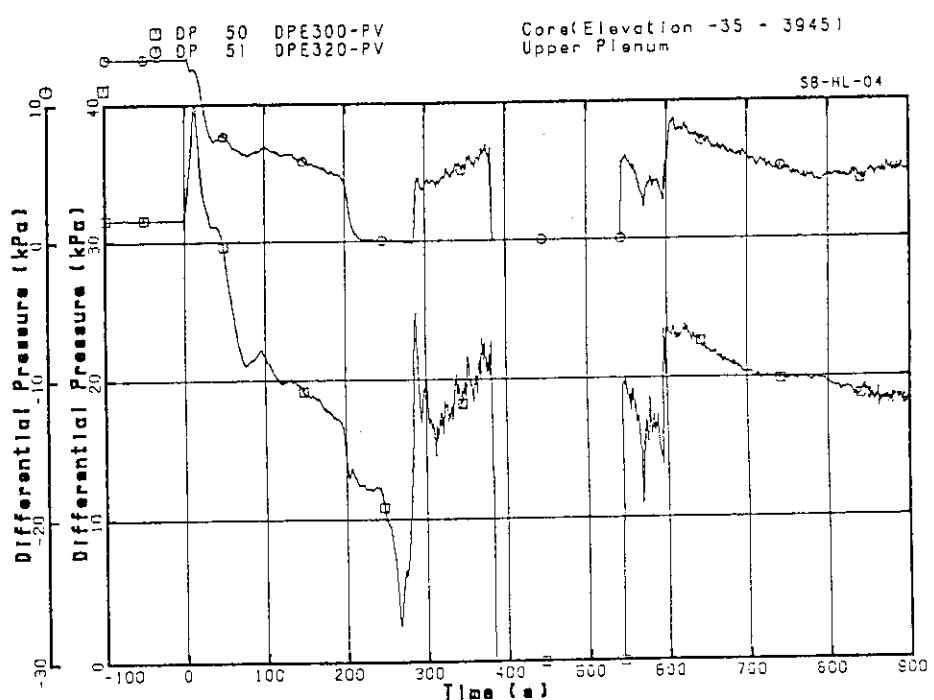


Fig. 5.34 Core and Upper Plenum Differential Pressures

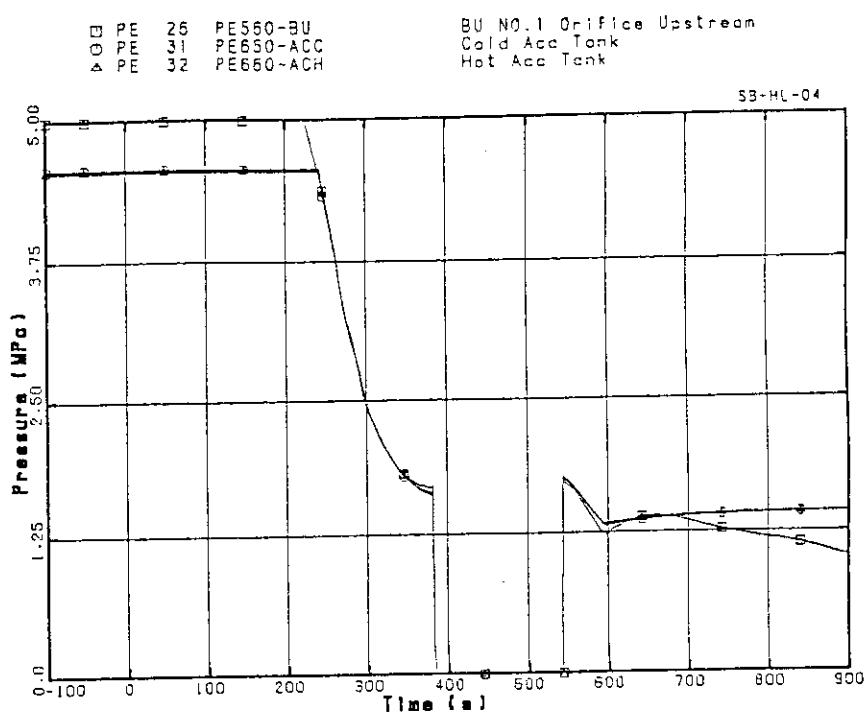


Fig. 5.35 Primary and ACC Tank Pressures

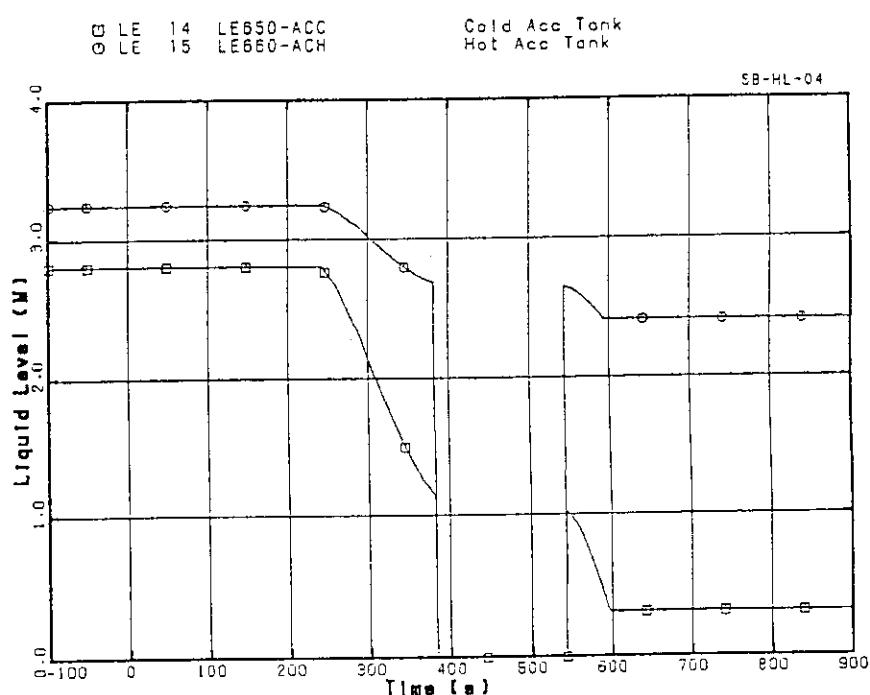


Fig. 5.36 ACC Tank Levels

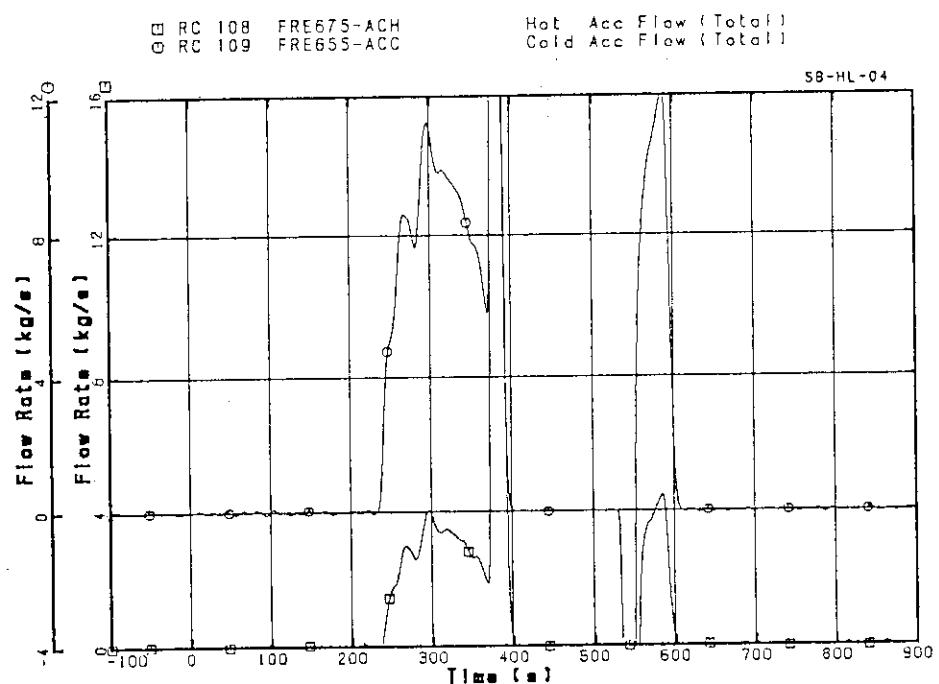


Fig. 5.37 ACC Injection Flow Rates

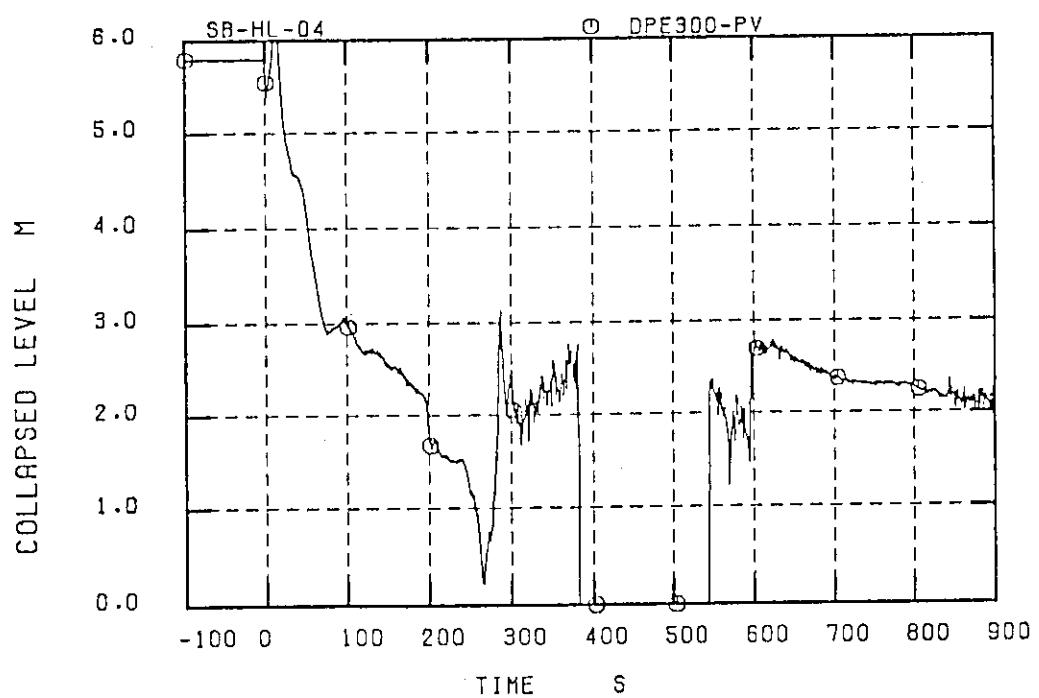


Fig. 5.38 Core Collapsed Liquid Level

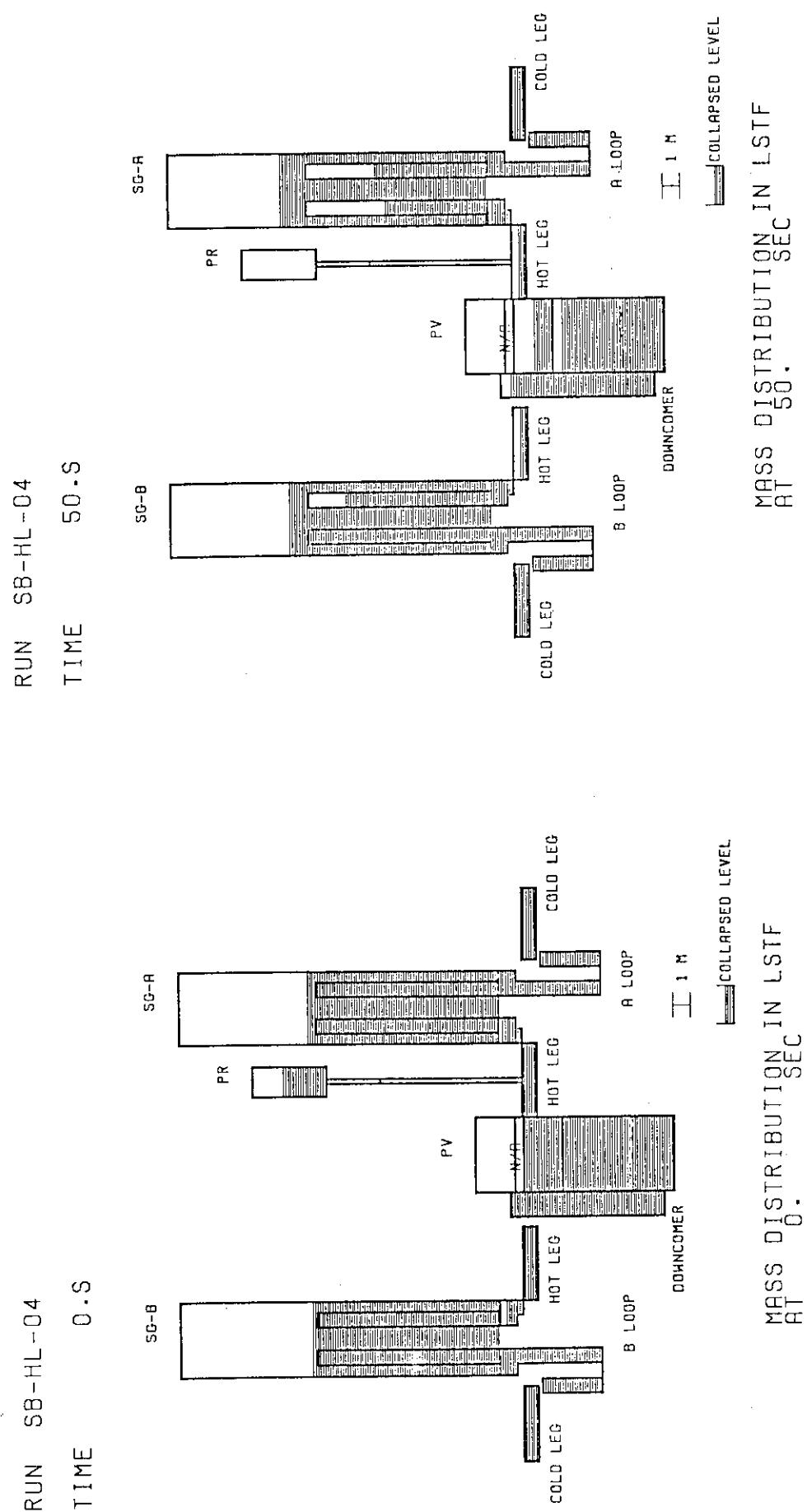


Fig. 5.39 Primary System Collapsed Liquid Level Distribution

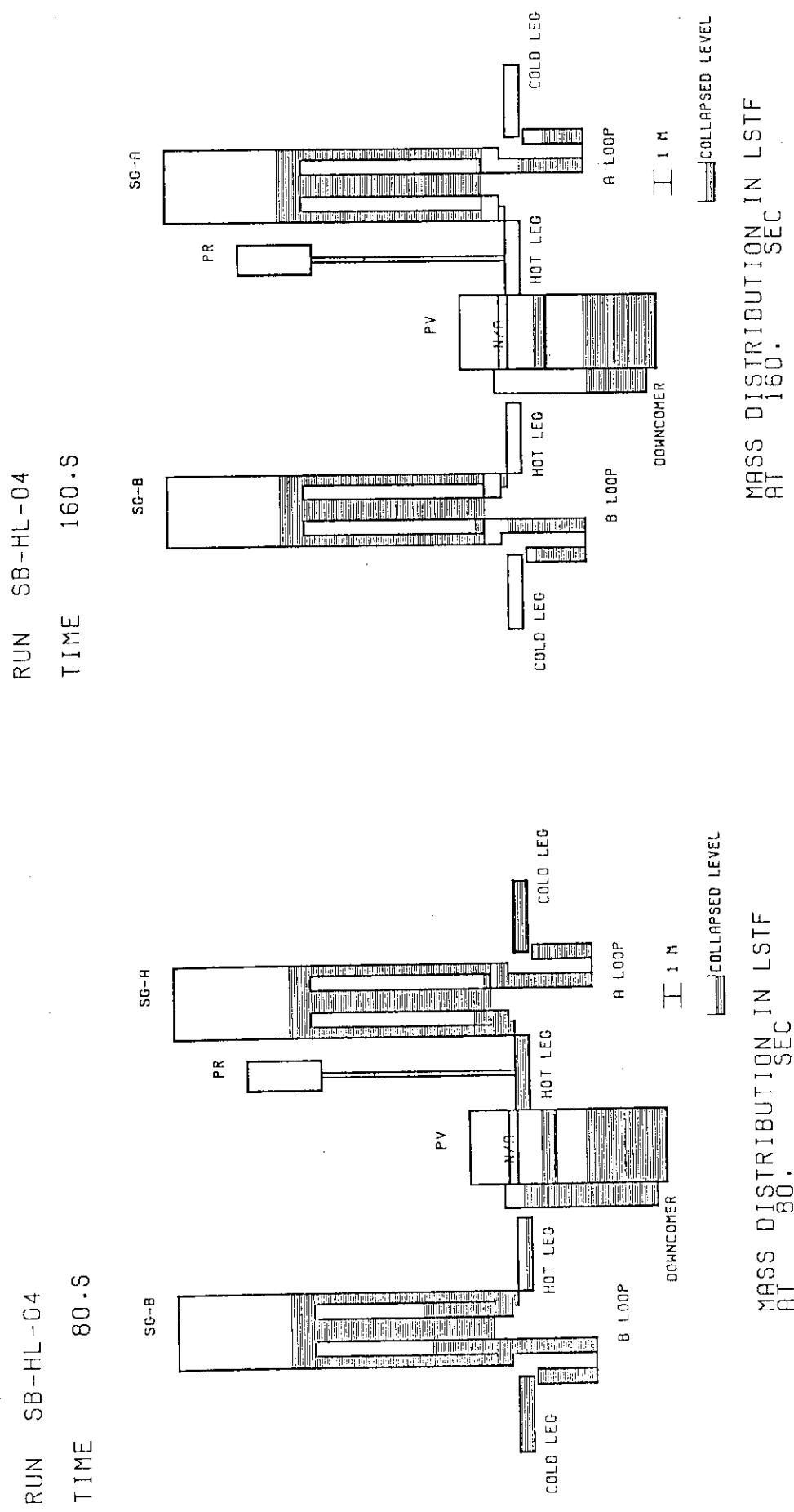


Fig. 5.39 (Continued)

RUN SB-HL-04
TIME 195.S

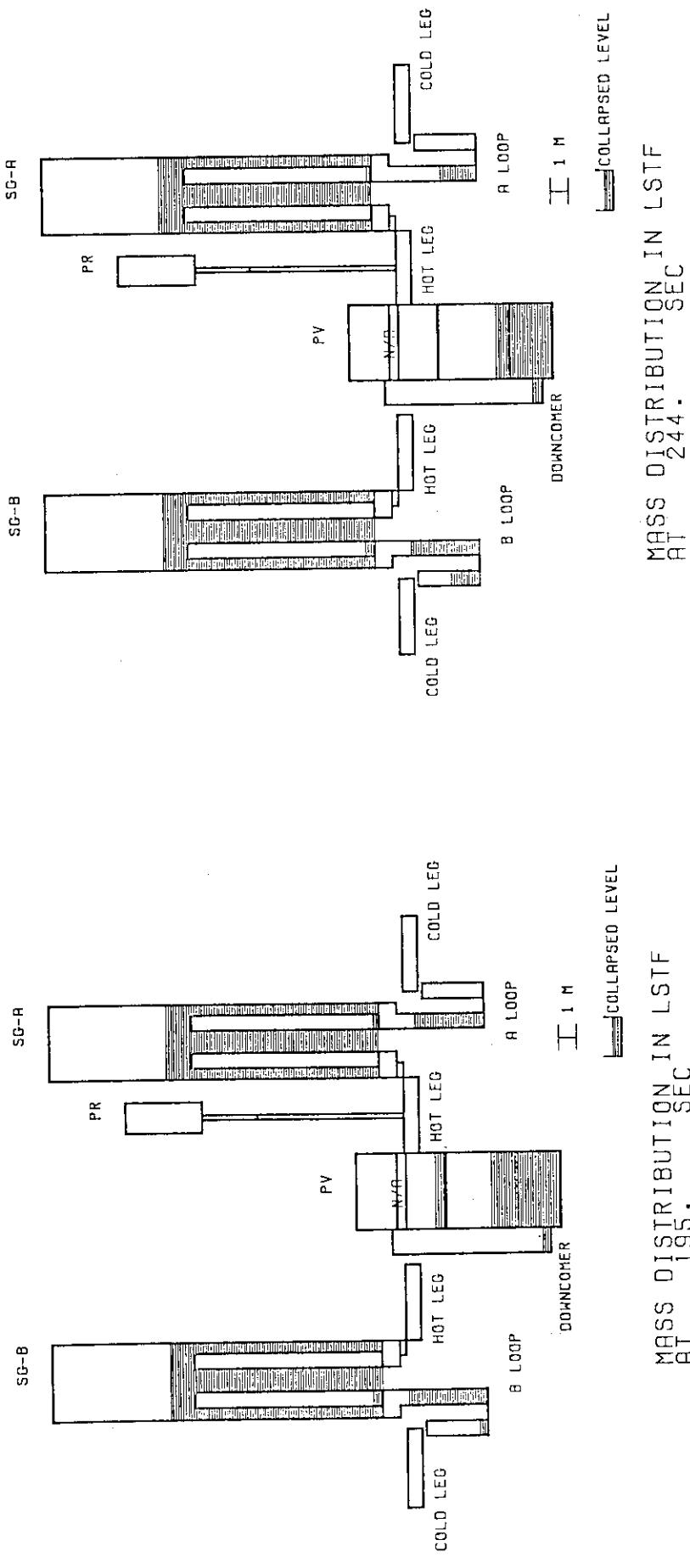


Fig. 5.39 (Continued)

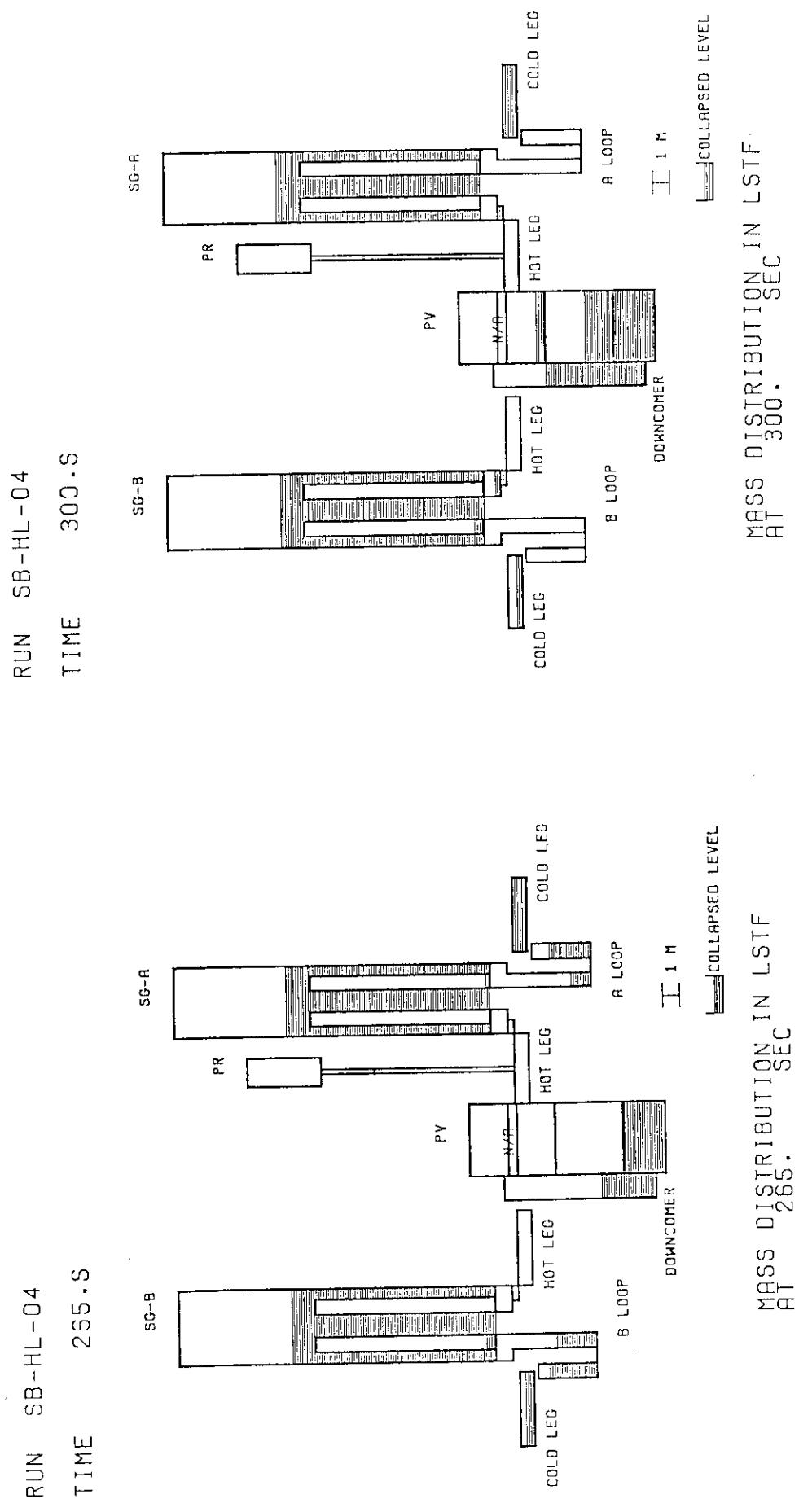


Fig. 5.39 (Continued)

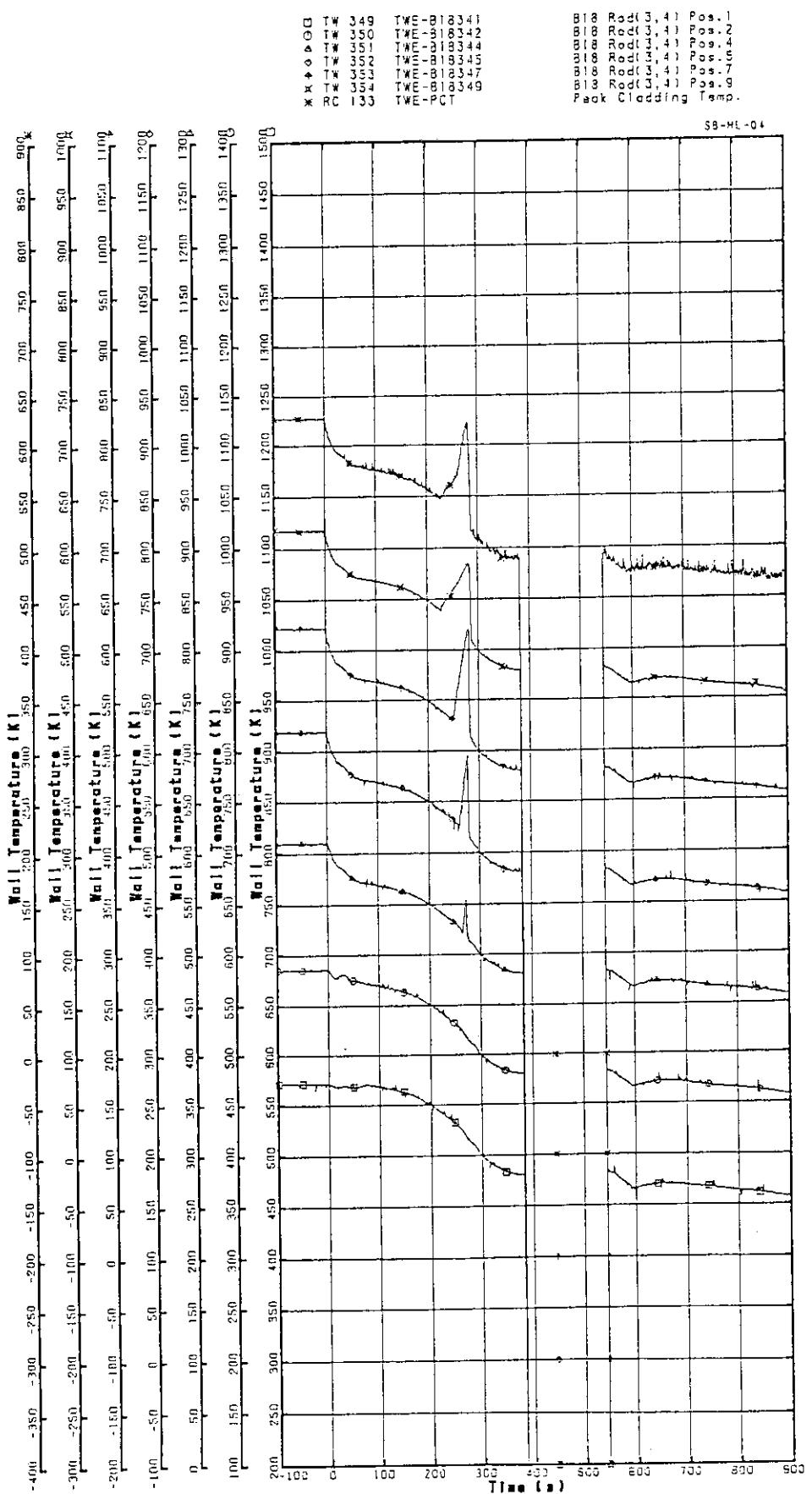


Fig. 5.40 Rod Surface Temperatures [Bundle 18 Rod(3,4)]

RUN SB-HL-04 TIME 220.0 (SEC)
 MAX - TSAT
 TSAT 539 K

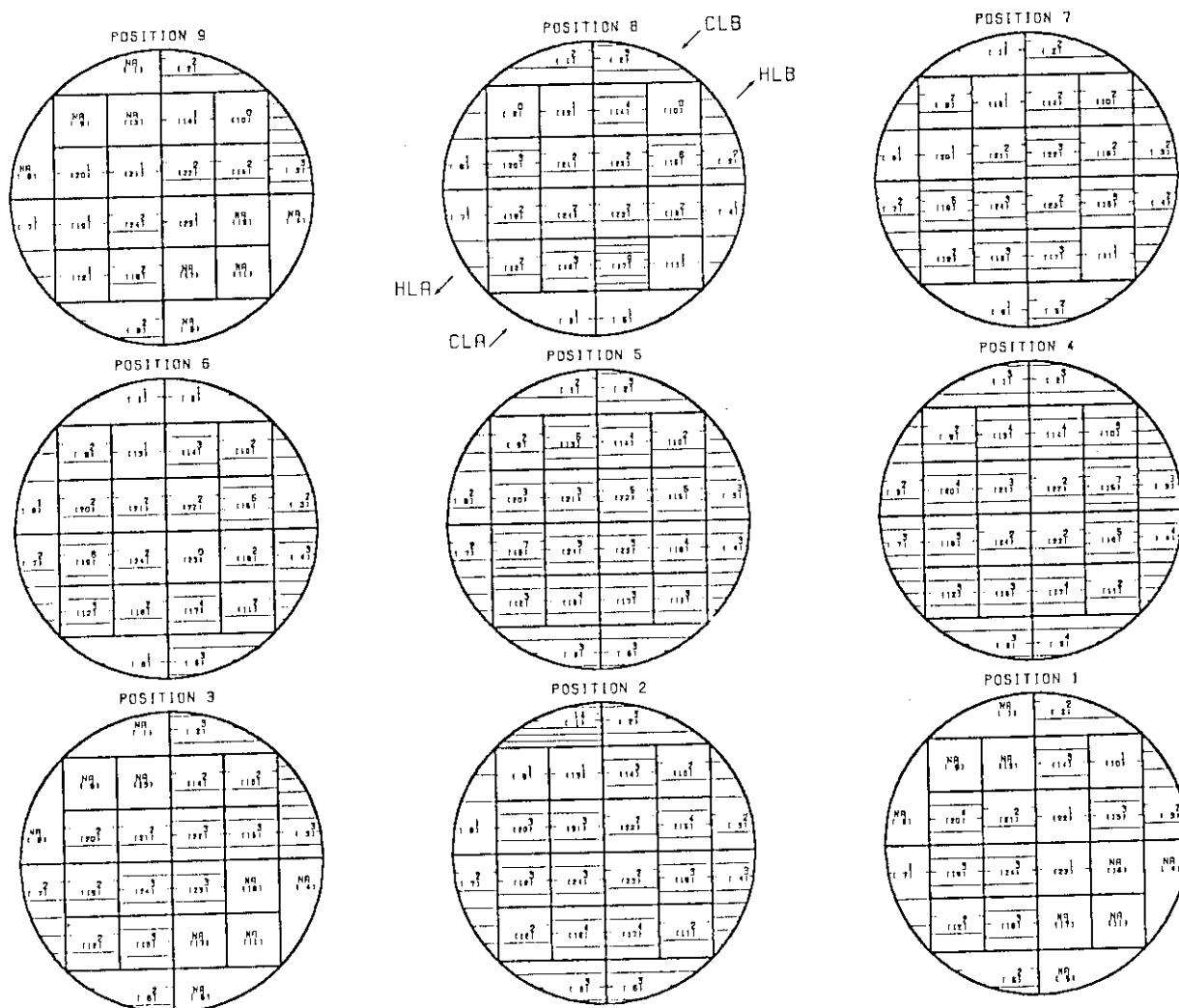


Fig. 5.41 Rod Surface Temperature Distribution

RUN SB-HL-04 TIME 240.0 (SEC)
 MAX - TSAT
 TSAT 531 K

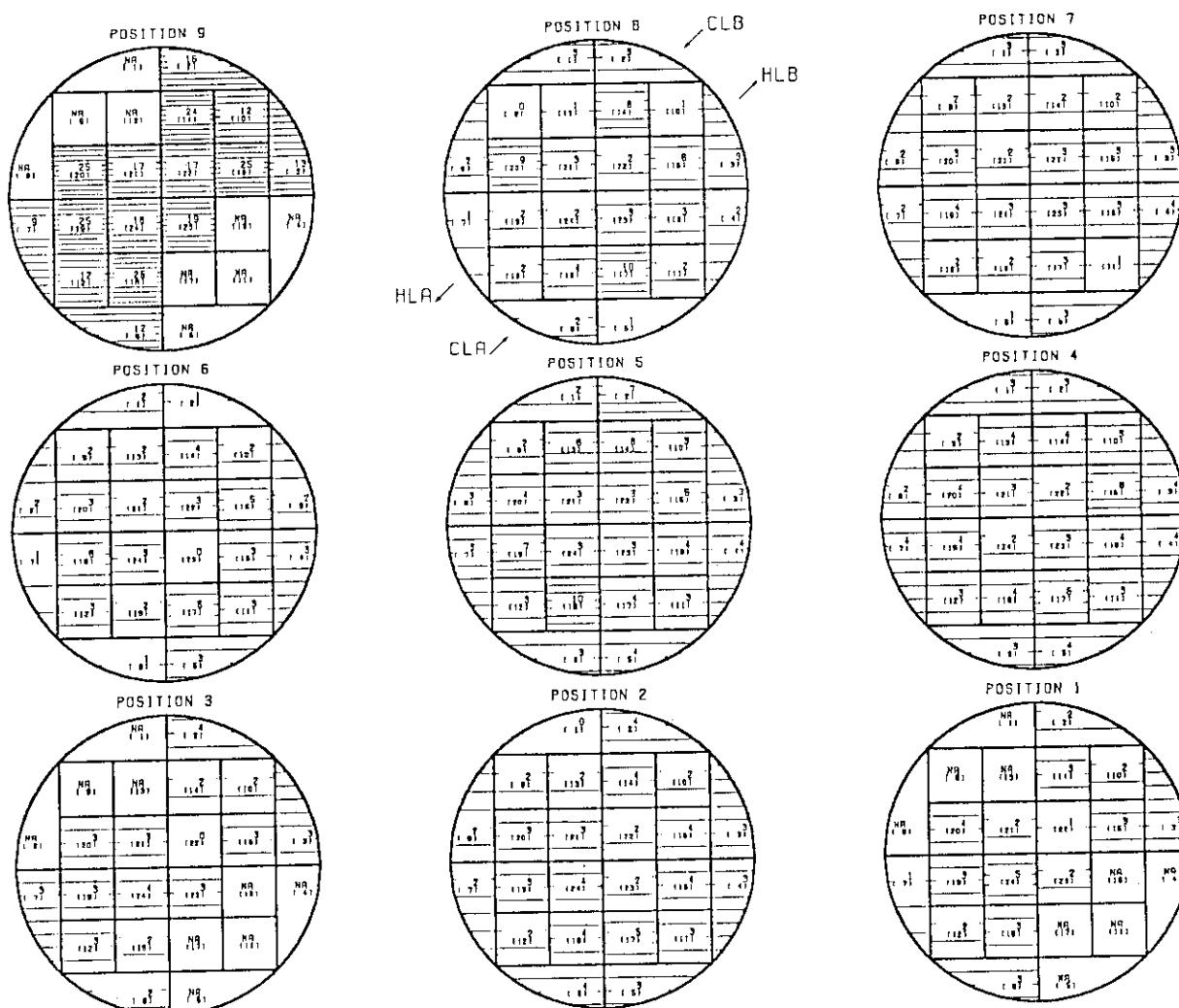


Fig. 5.41 (Continued)

RUN SB-HL-04 TIME 260.0 (SEC)
 MAX - TSAT
 TSAT 521 K

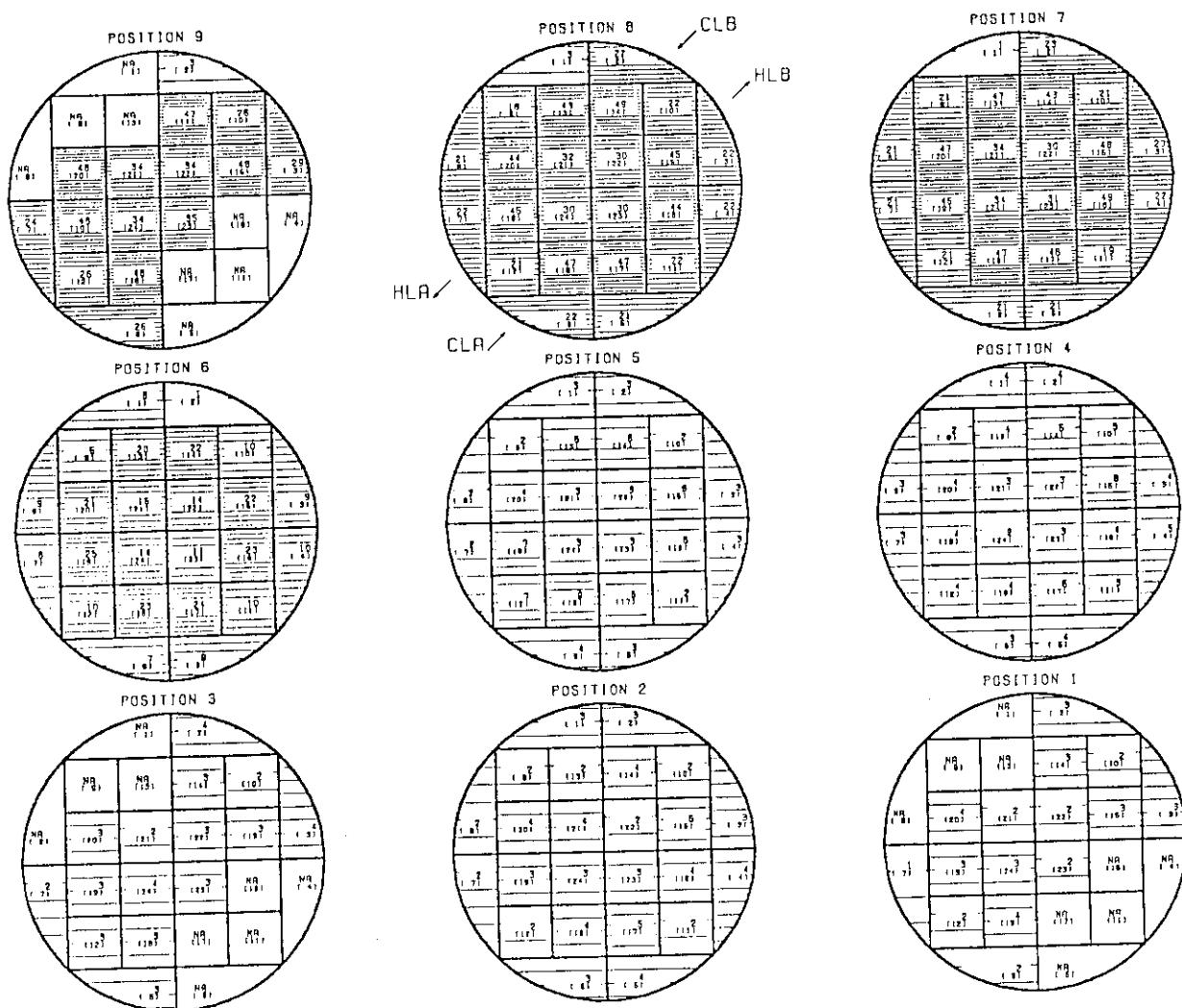


Fig. 5.41 (Continued)

RUN SB-HL-04 TIME 280.01 SEC
 MAX - TSAT
 TSAT 509 K

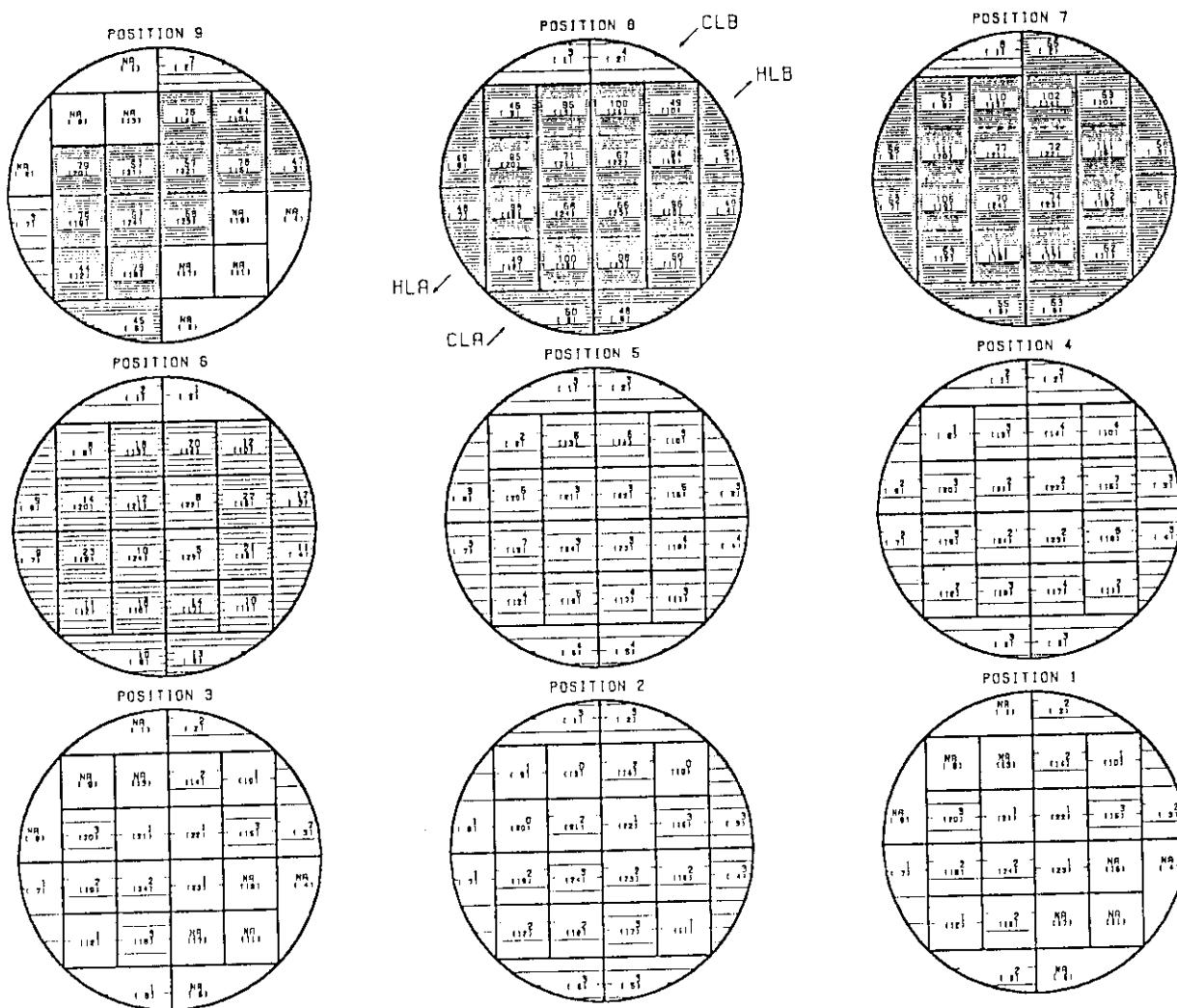


Fig. 5.41 (Continued)

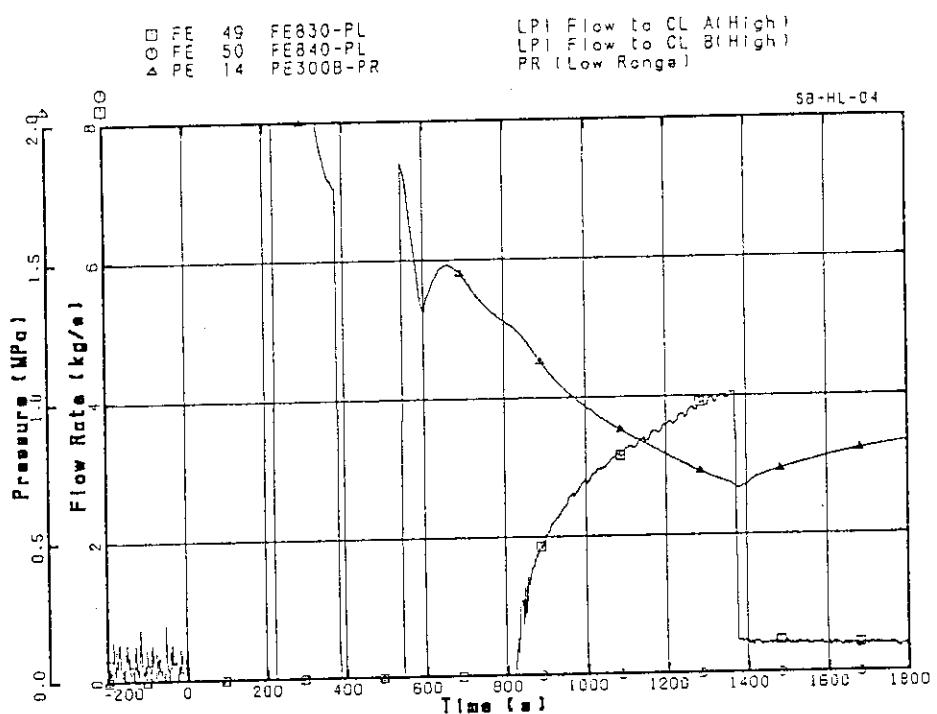
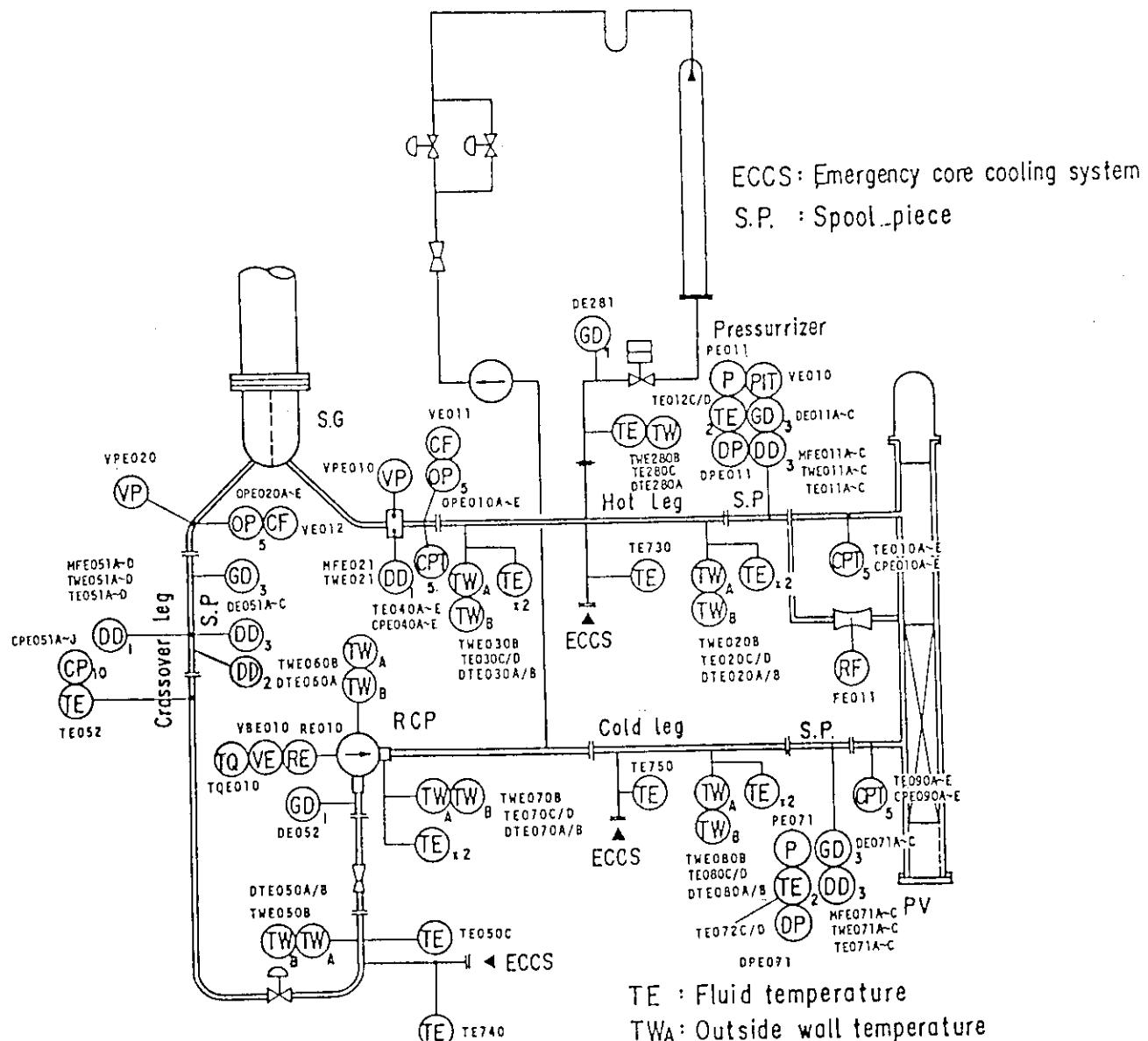


Fig. 5.42 LPI Flow Rates

Appendix A Measurement Locations



GD₁ : 1 beam γ -densitometer
 GD₃ : 3 beam γ -densitometer
 DD : Drag disk flow meter
 PIT : Pitot-tube velocimeter
 OP₅ : Optical liquid level detector
 CP₁₀ : Conductance probe
 RF : Reflux flow meter
 DP : Differential pressure
 P : Pressure
 VP : Video probe
 CF : Cross-correlation velocimeter
 CPT₅ : Conductance probe with TC

TE : Fluid temperature
 TWA : Outside wall temperature
 TWB : Inside wall temperature
 RE : Rotation speed
 VE : Pump oscillation
 TQ : Pump torque

Fig. A.1 Primary Loop A Instruments (I)

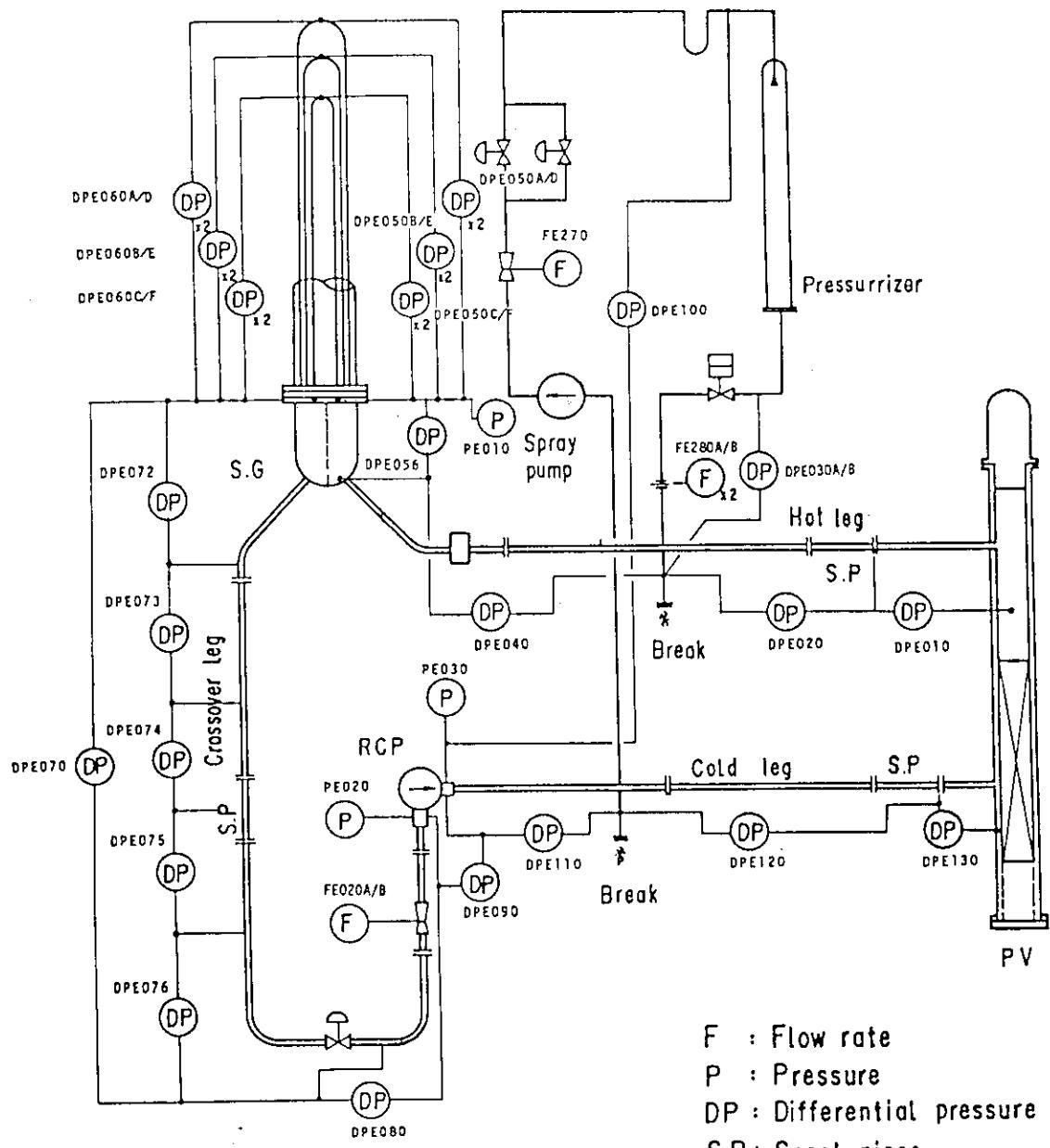
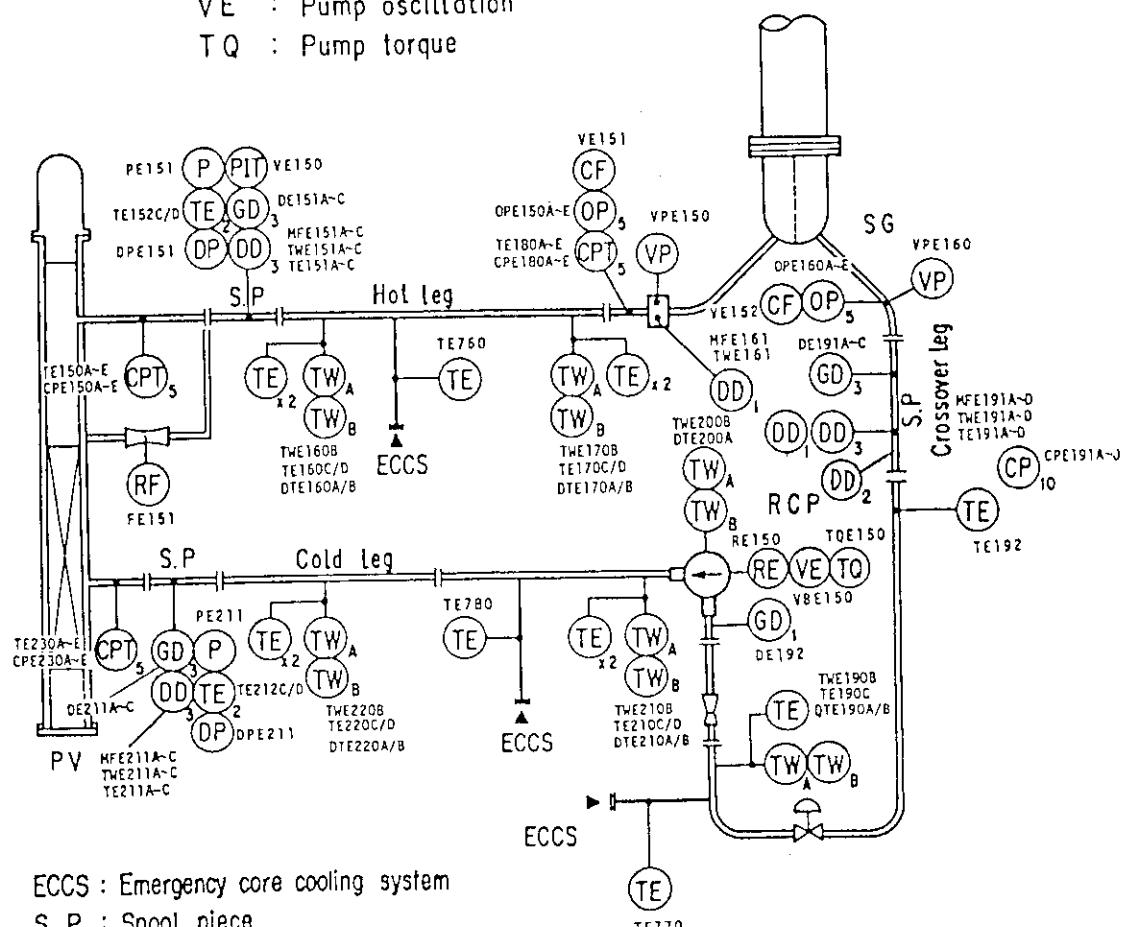


Fig. A.2 Primary Loop A Instruments (II)

VP : Video probe
 GD₃ : 3 beams γ -densitometer
 DD : Drag disk flow meter
 PIT : Pitot-tube velocimeter
 OP₅ : Optical liquid level detector
 CPIO : Conductance probe
 RF : Reflux flow meter
 DP : Differential pressure
 P : Pressure
 CPT₅ : Conductance probe with TC
 TE : Fluid temperature
 TW : Outside wall temperature
 TW : Inside wall temperature
 RE : Rotation speed
 VE : Pump oscillation
 TQ : Pump torque



ECCS : Emergency core cooling system

S.P. : Spool piece

Fig. A.3 Primary Loop B Instruments (I)

F : Flow rate
 P : Pressure
 DP : Differential pressure
 SP : Spool piece

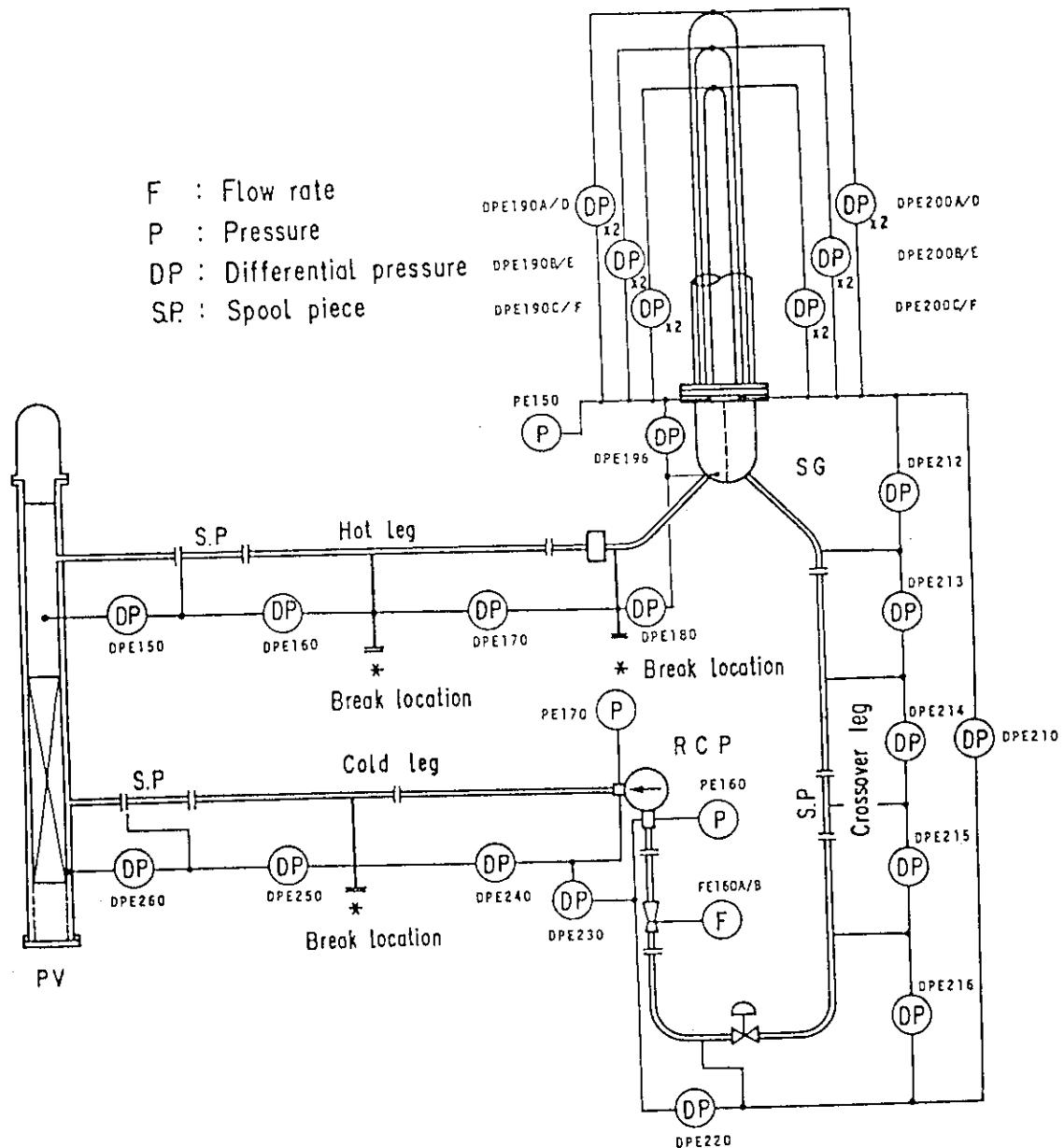


Fig. A.4 Primary Loop B Instruments (II)

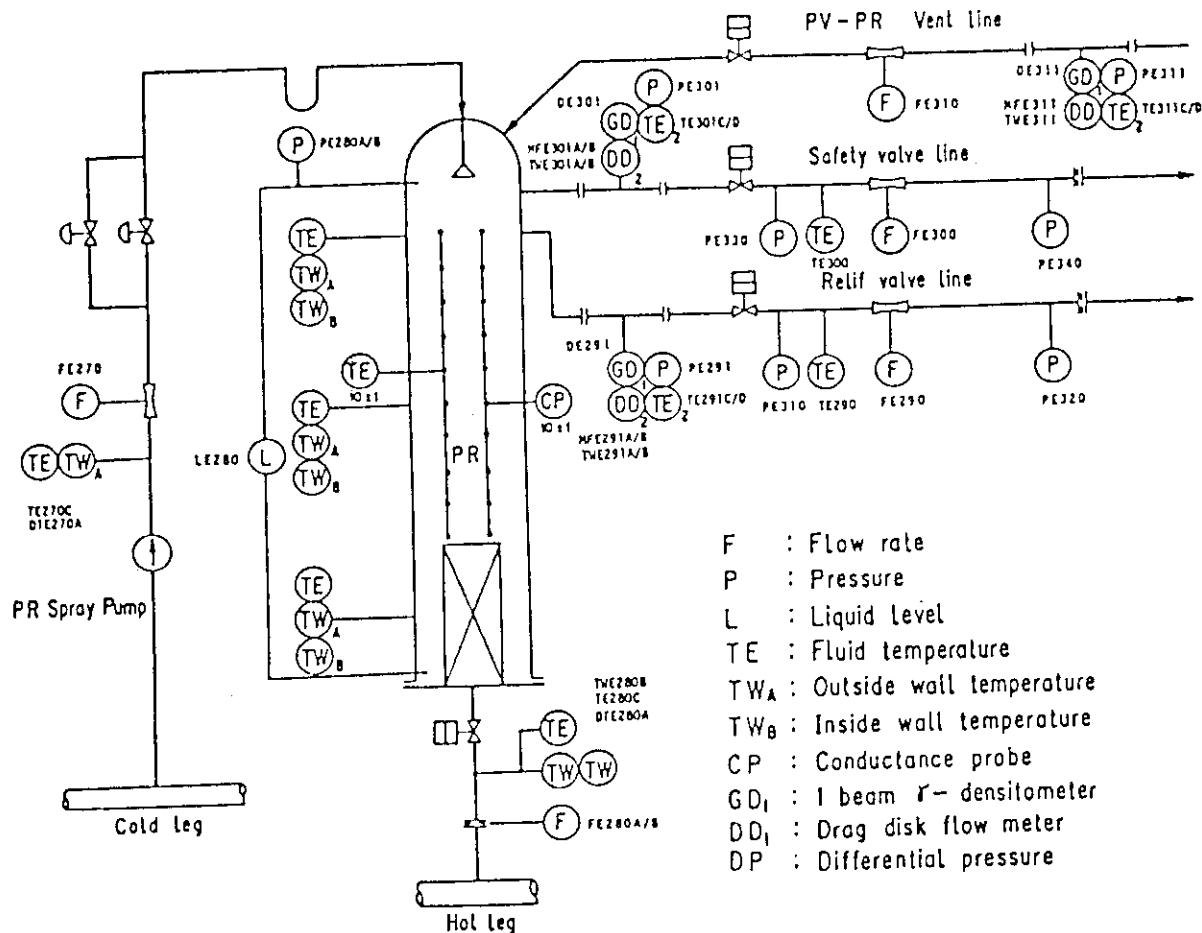


Fig. A.5 Instruments for Pressurizer and Associated Lines

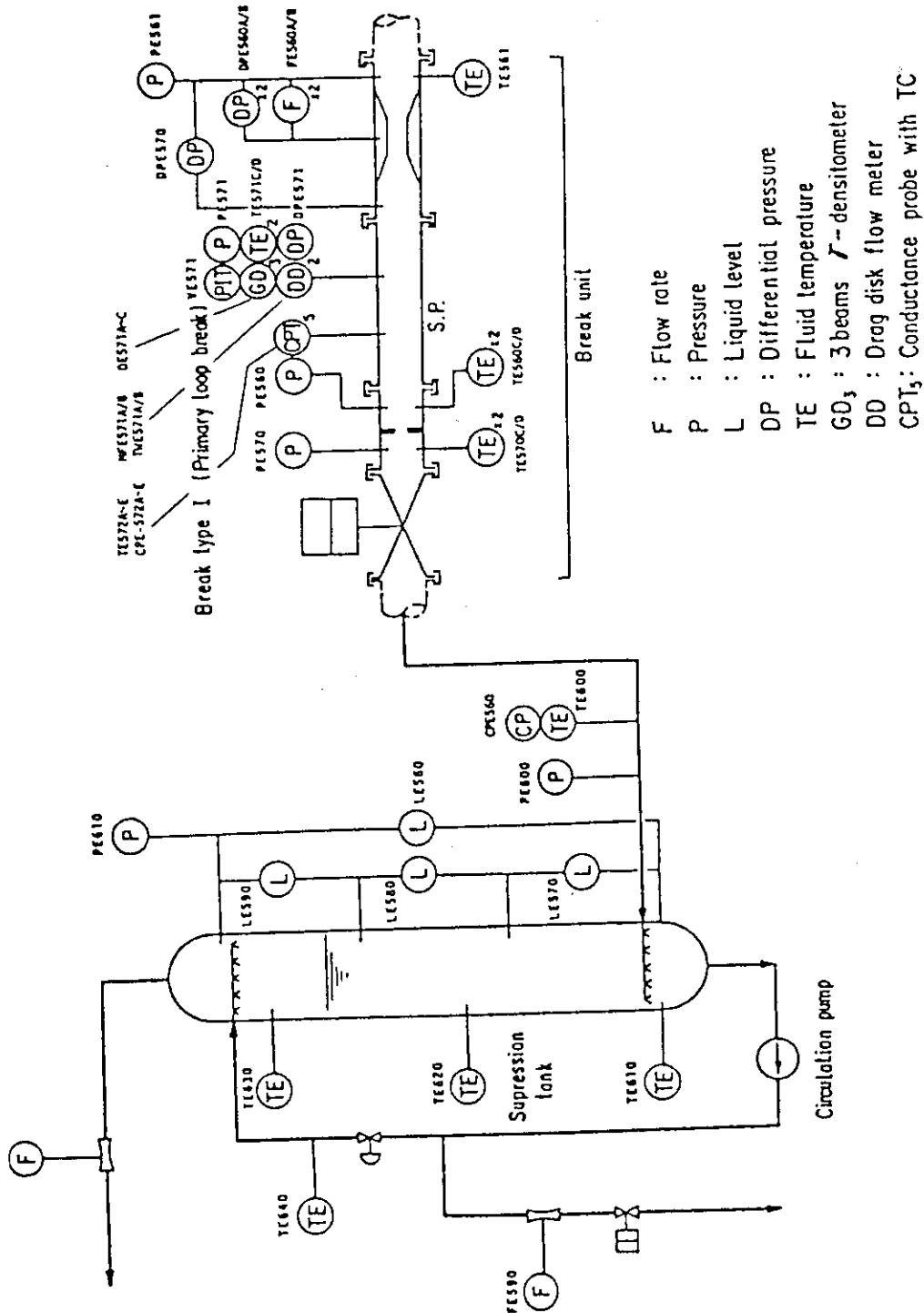


Fig. A.6 Suppression Tank and Break Unit Type I Instruments

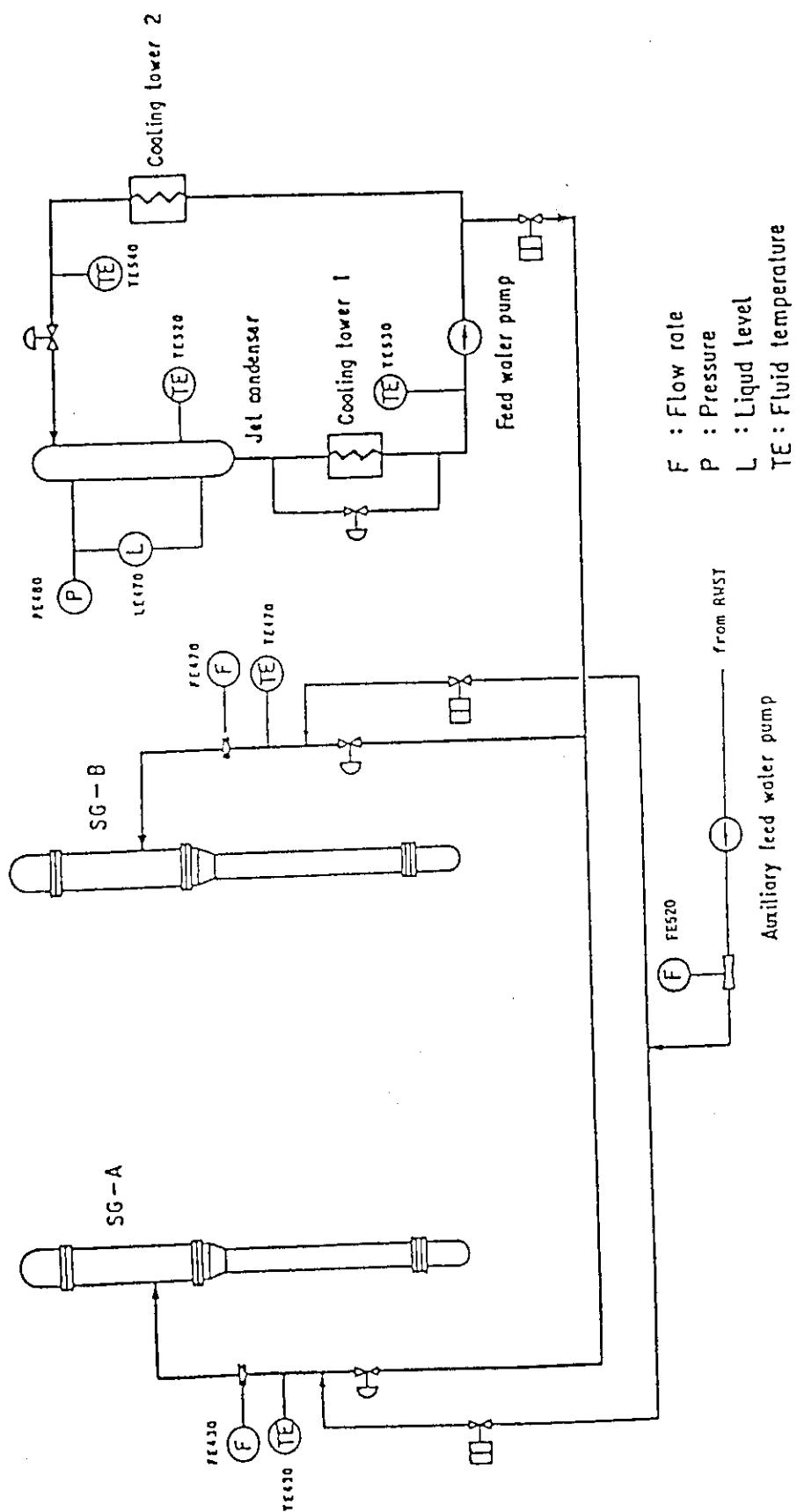


Fig. A.7 Main Feedwater Line Aux. Feedwater Line and Jet Condenser Instruments

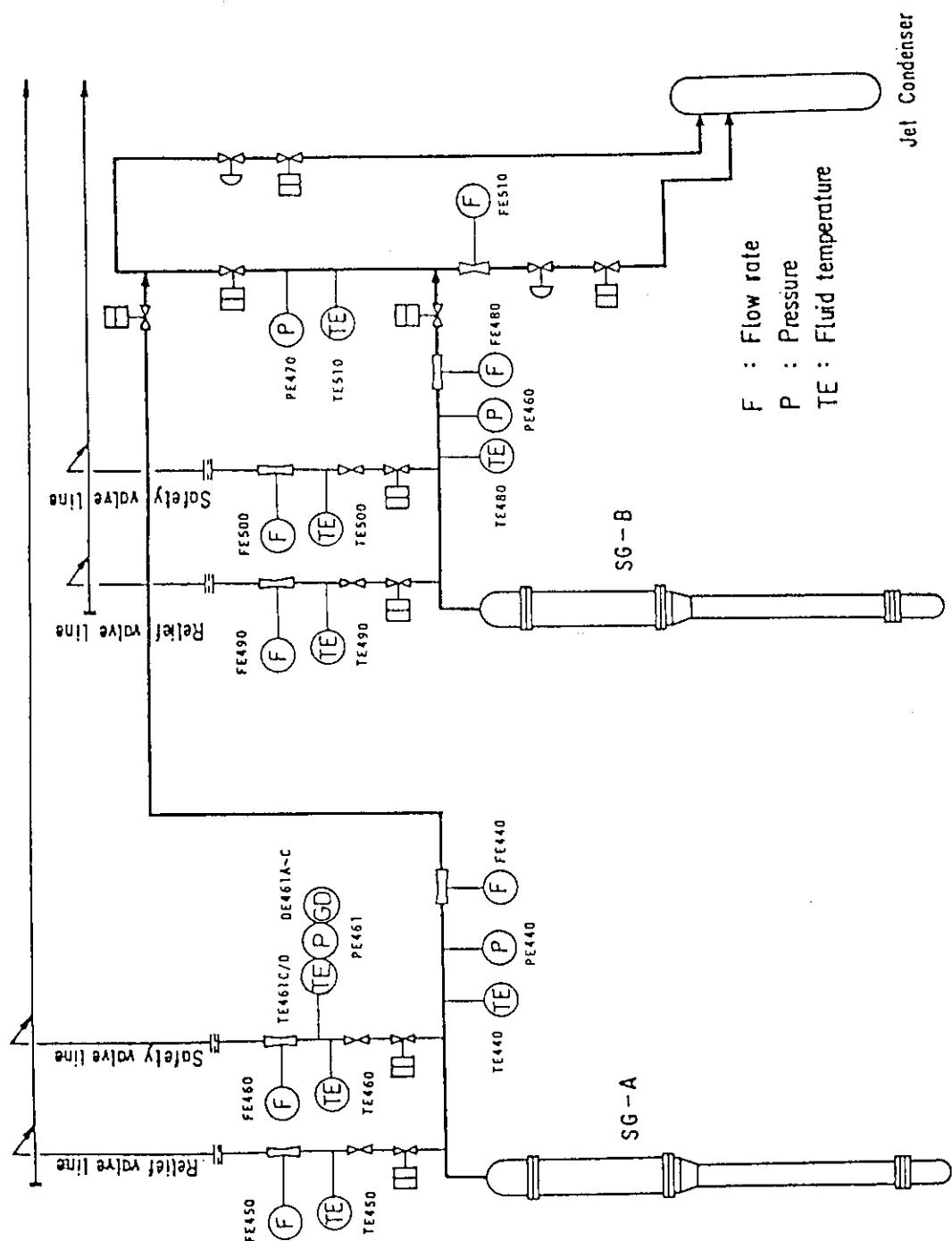


Fig. A.8 Main Steam, Relief Valve and Safety Valve Instruments

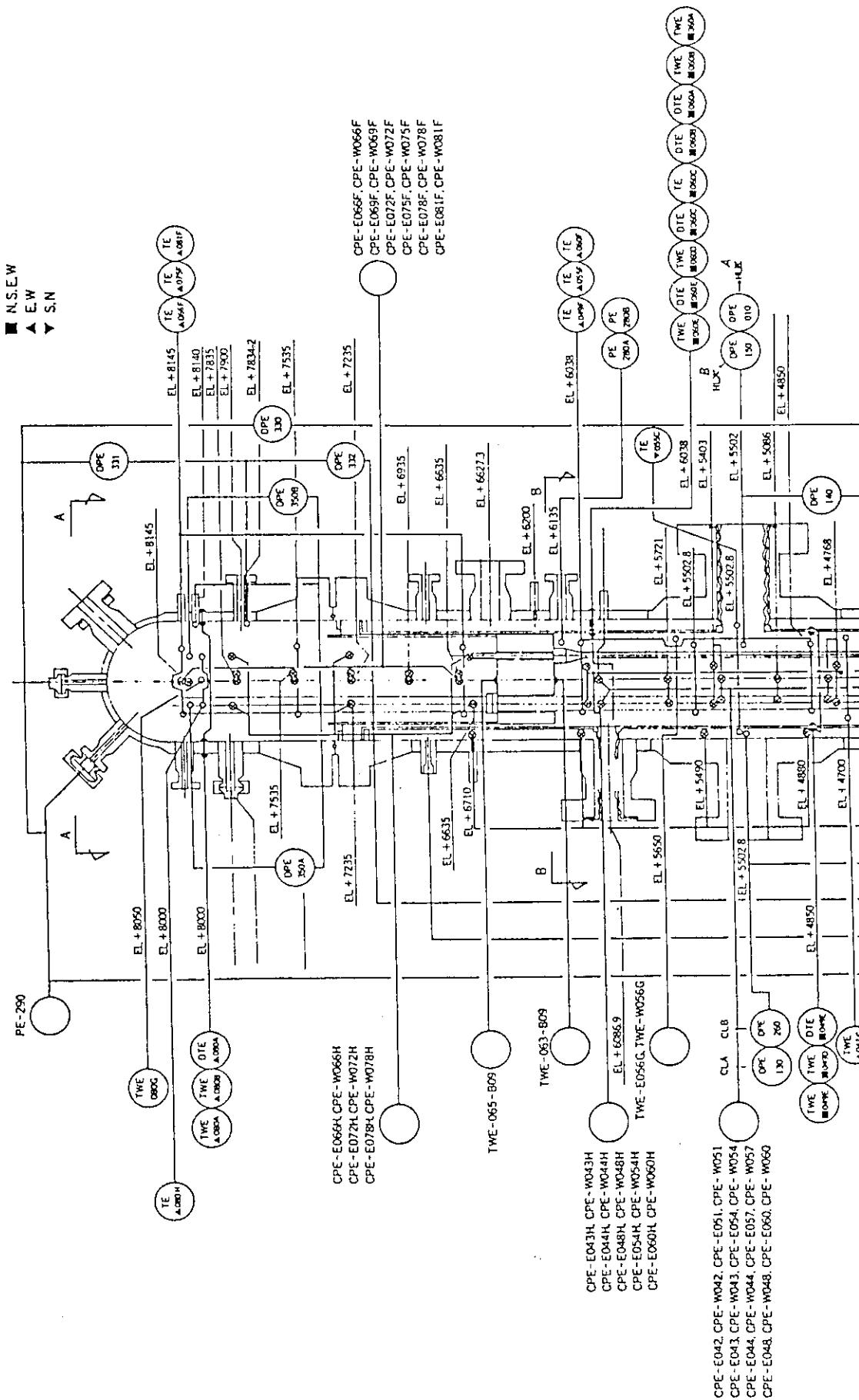


Fig. A.9 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (1)

■ N.S.E.W
▲ E.W
▼ S.N

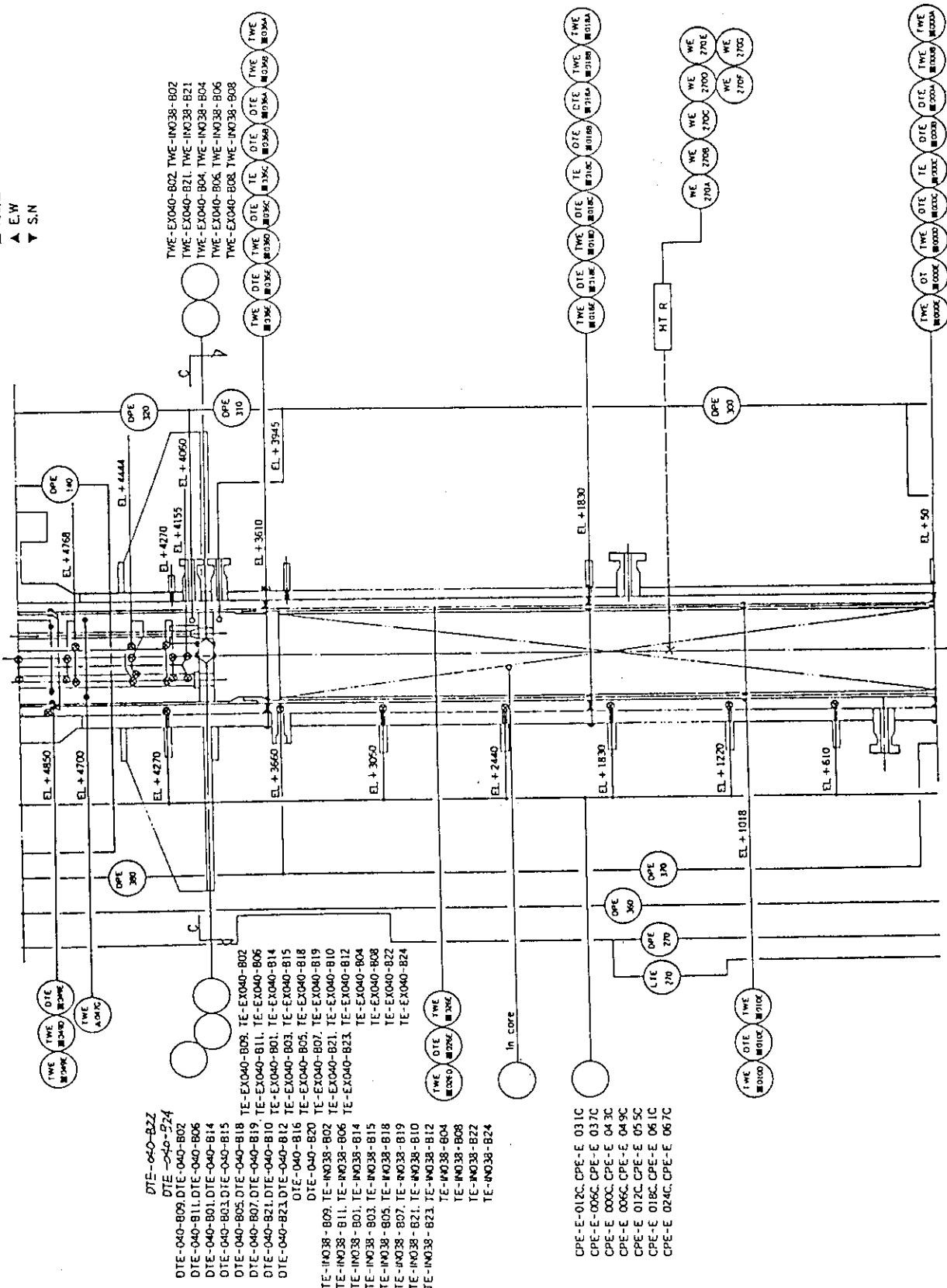


Fig. A.10 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (III)

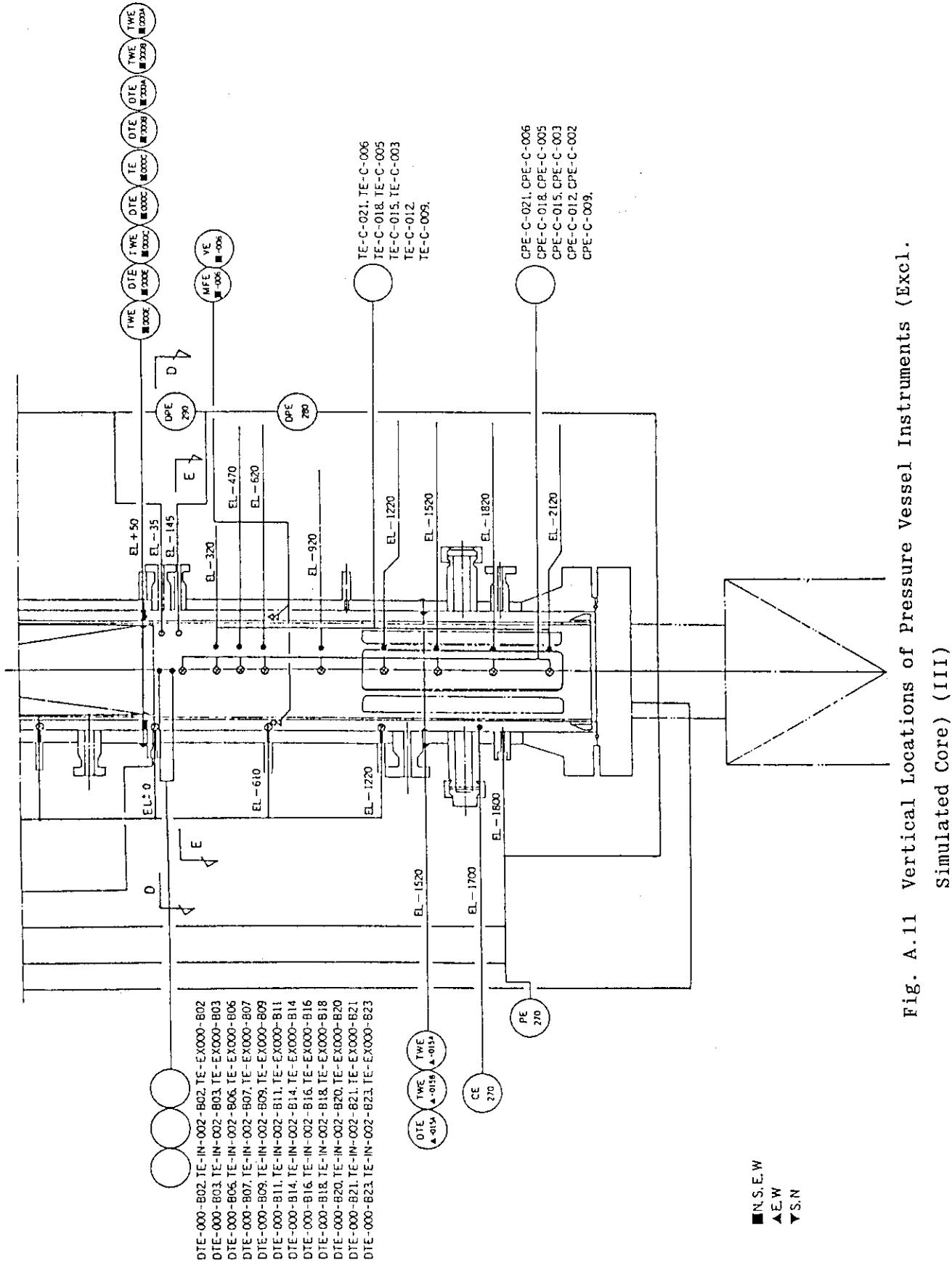


Fig. A.11 Vertical Locations of Pressure Vessel Instruments (Excl. Simulated Core) (III)

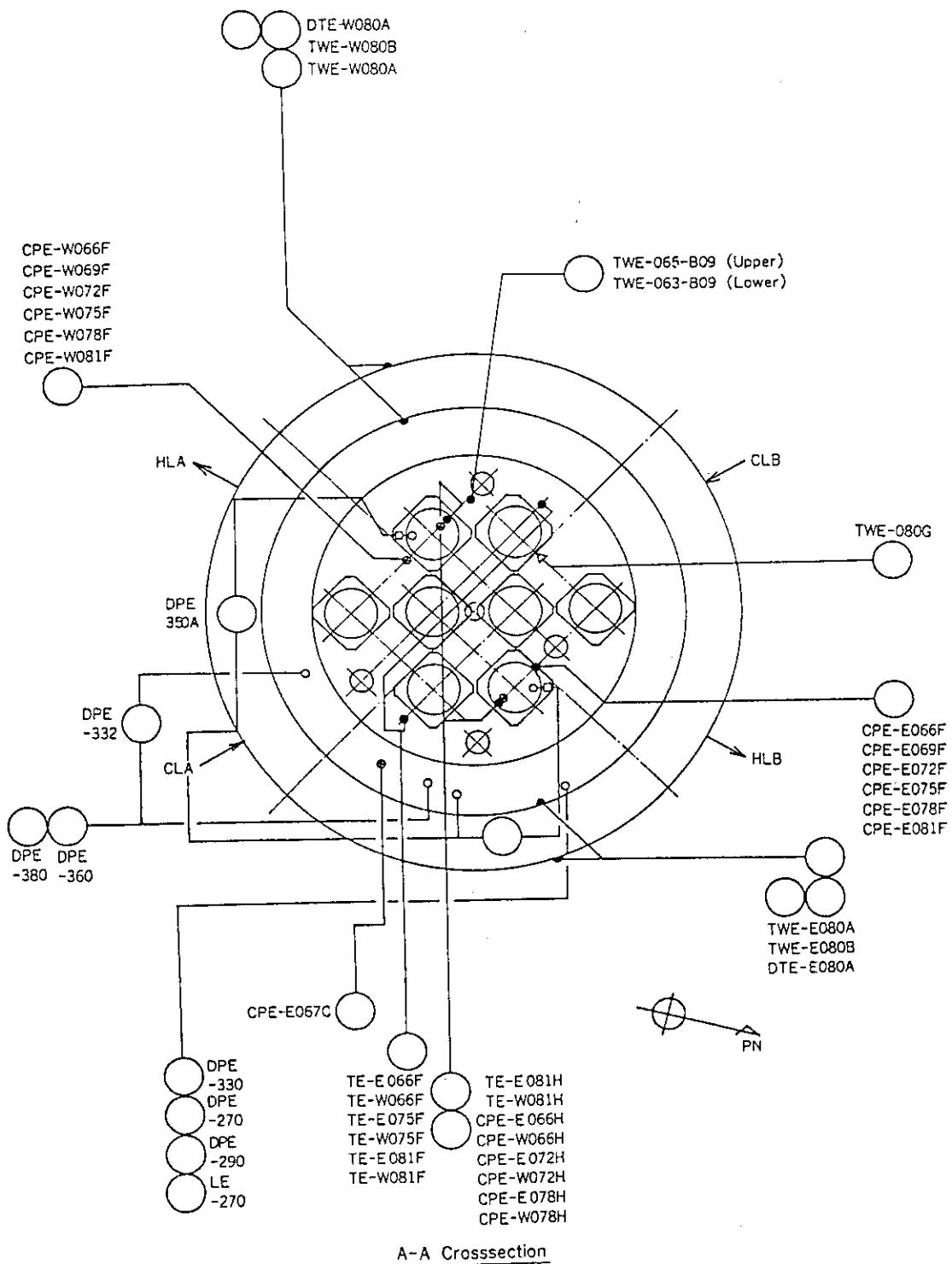


Fig. A.12 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (I)

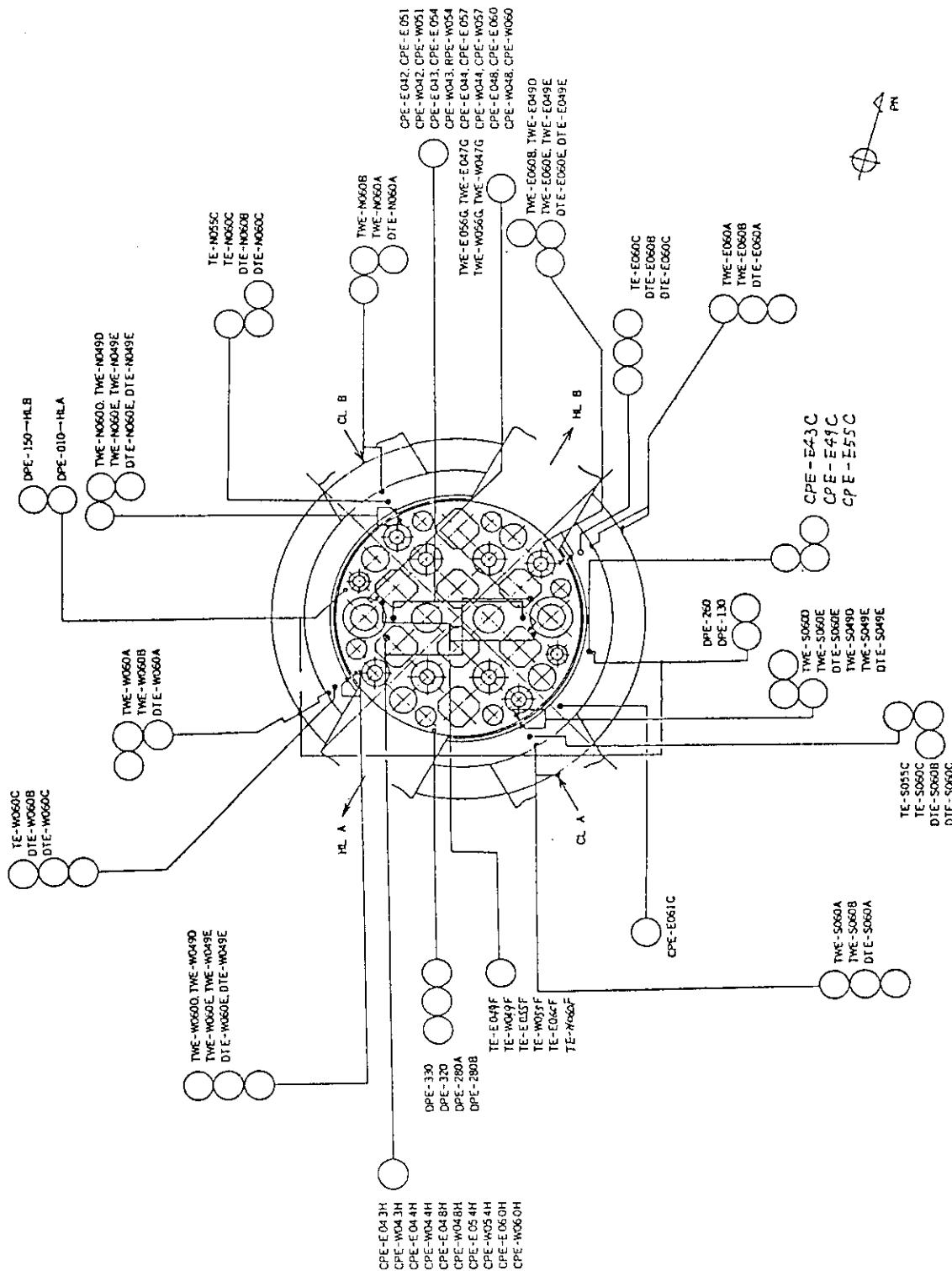


Fig. A.13 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (II)

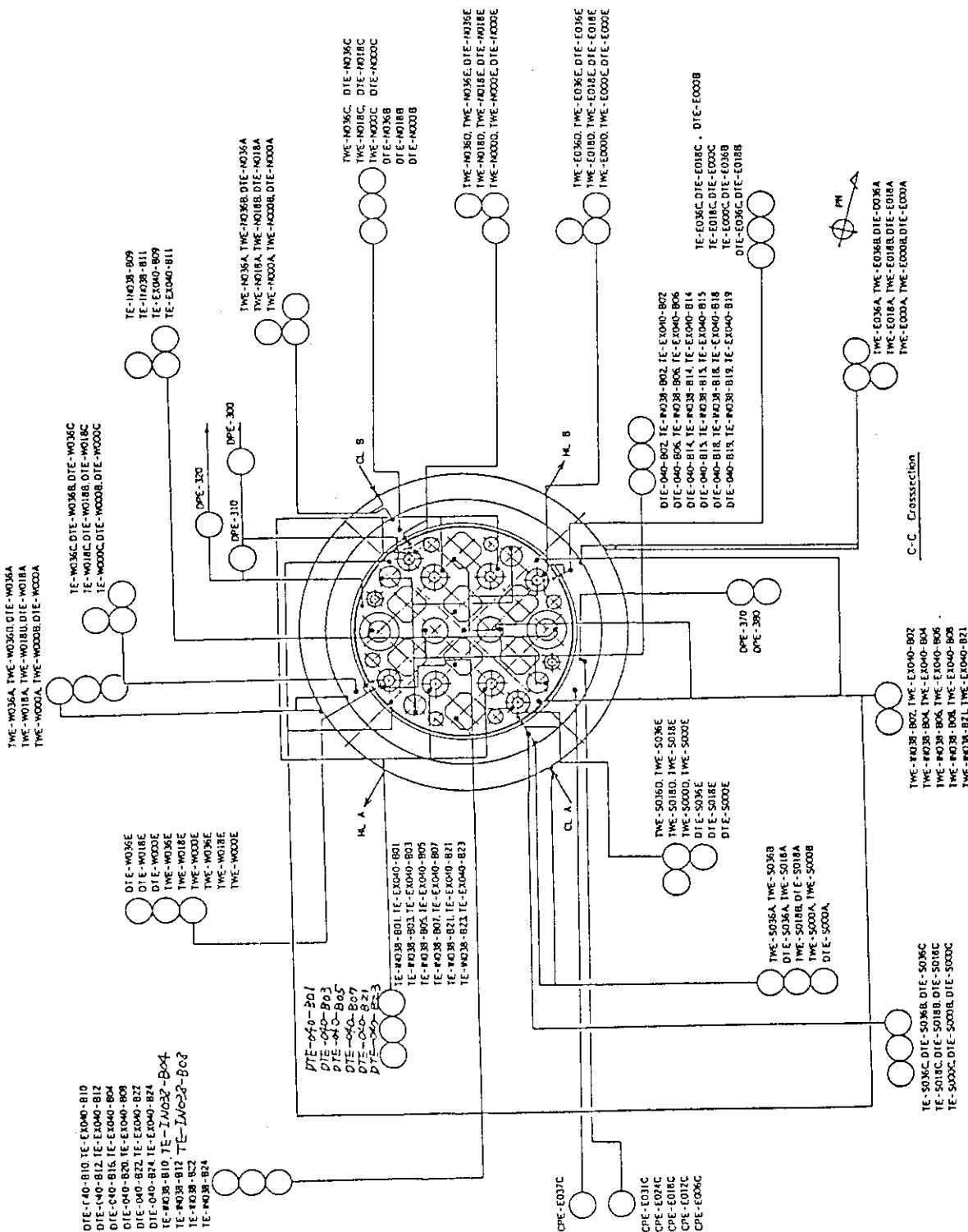


Fig. A.14 Horizontal Locations of Pressure Vessel Instruments (Excl. Simulated Core) (III)

MFE-N-006 MFE-E-006
MFE-S-006 MFE-W-006
VE-N-006 VE-E-006
VE-S-006 VE-W-006

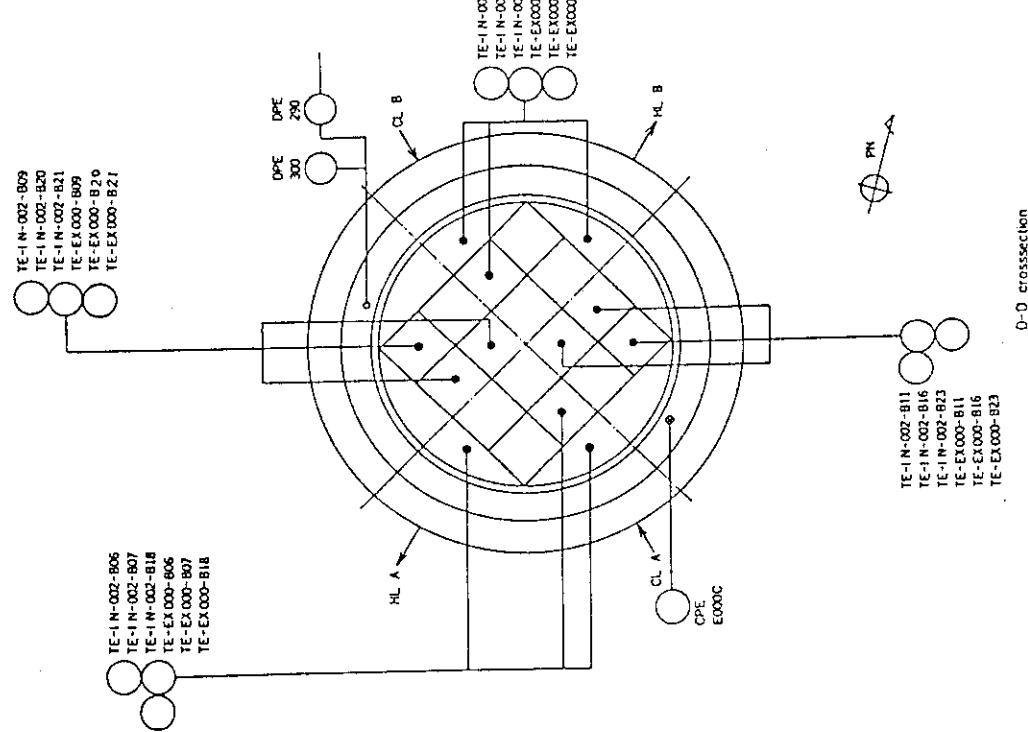


Fig. A.15 Horizontal Locations of Pressure
Vessel Instruments (Excl.
Simulated Core) (IV)

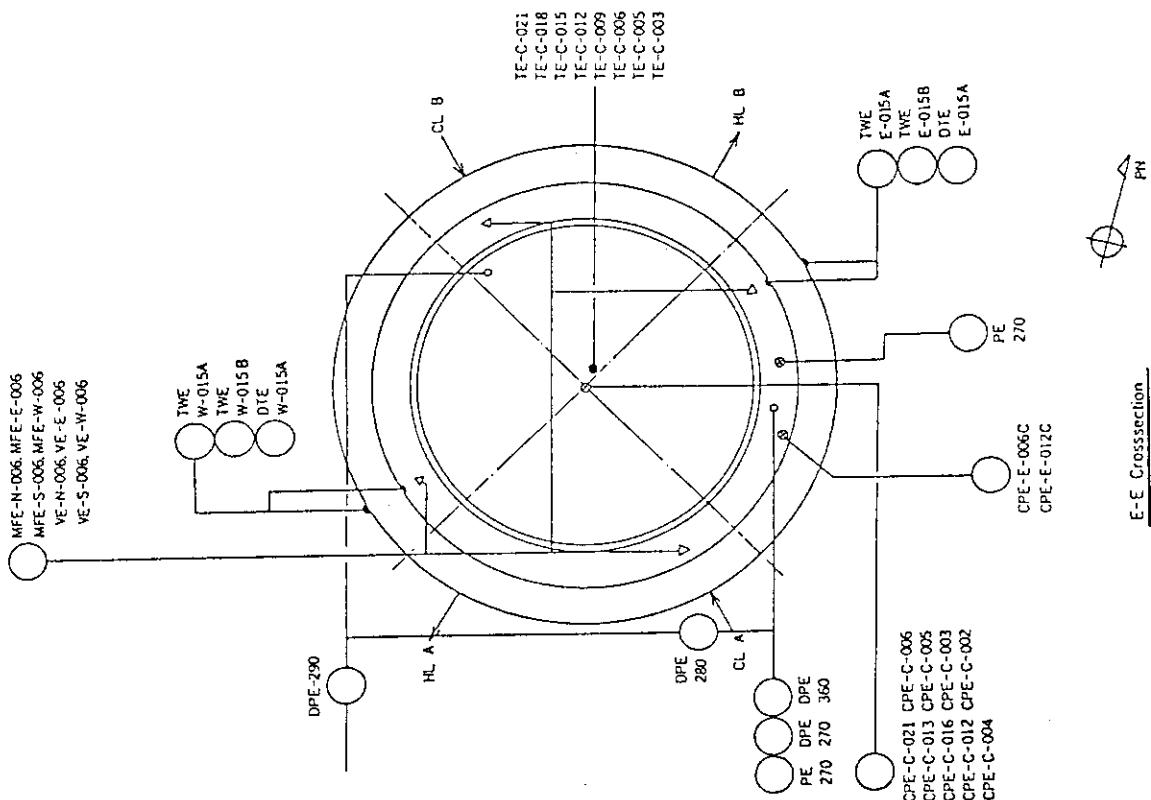


Fig. A.16 Horizontal Locations of Pressure
Vessel Instruments (Excl.
Simulated Core) (V)

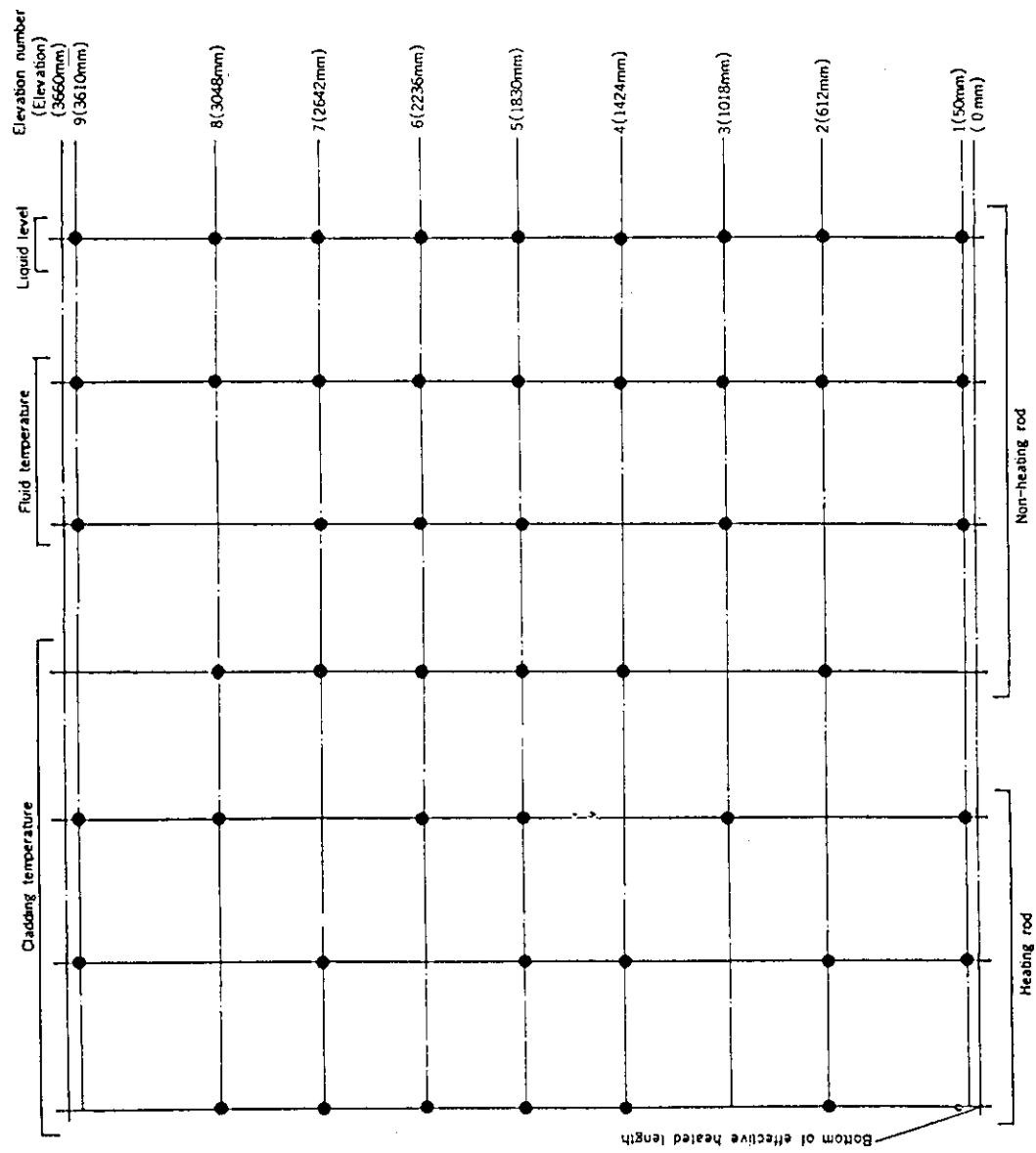
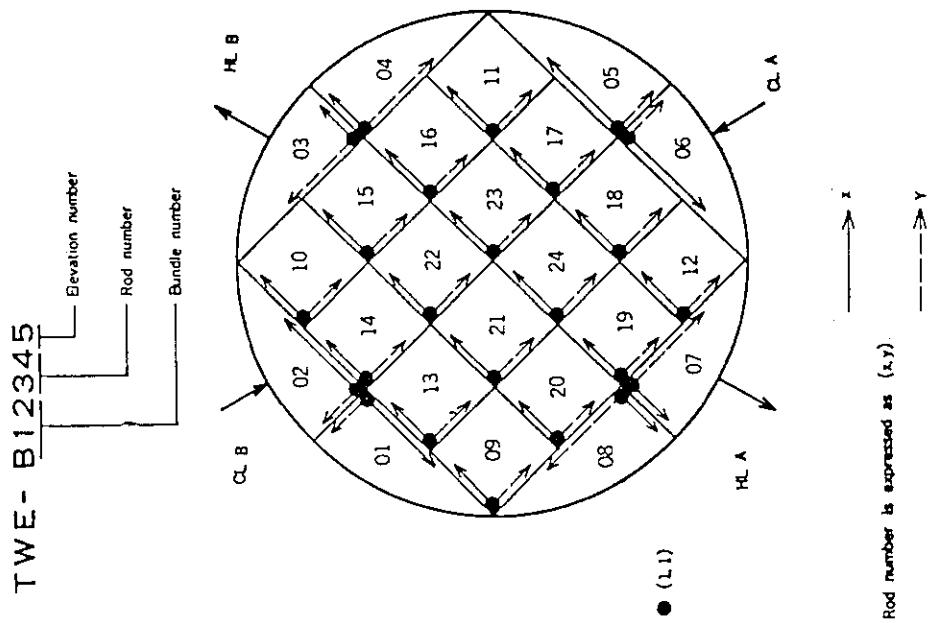


Fig. A.17 Locations of Core Instruments



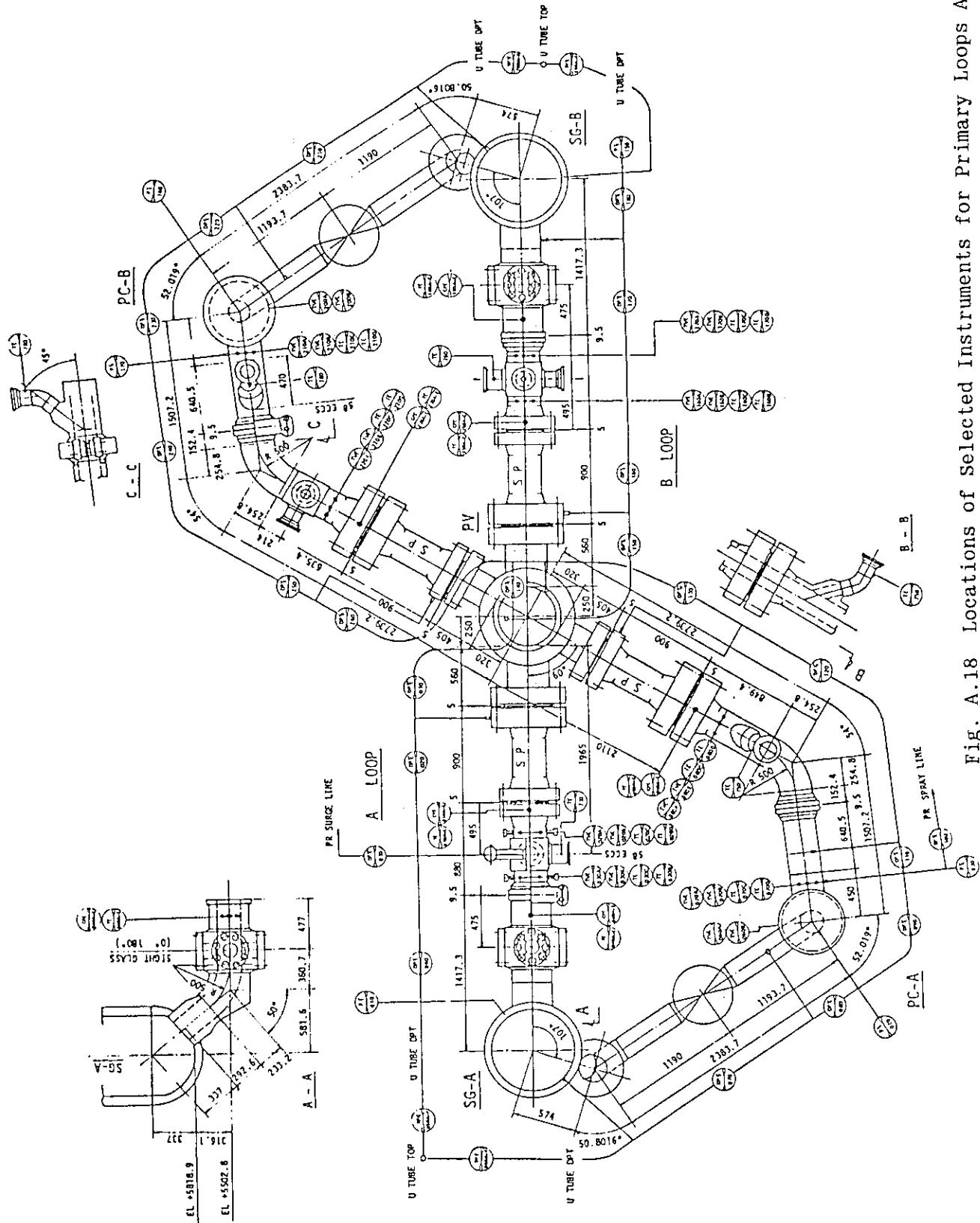


Fig. A.18 Locations of Selected Instruments for Primary Loops A and B

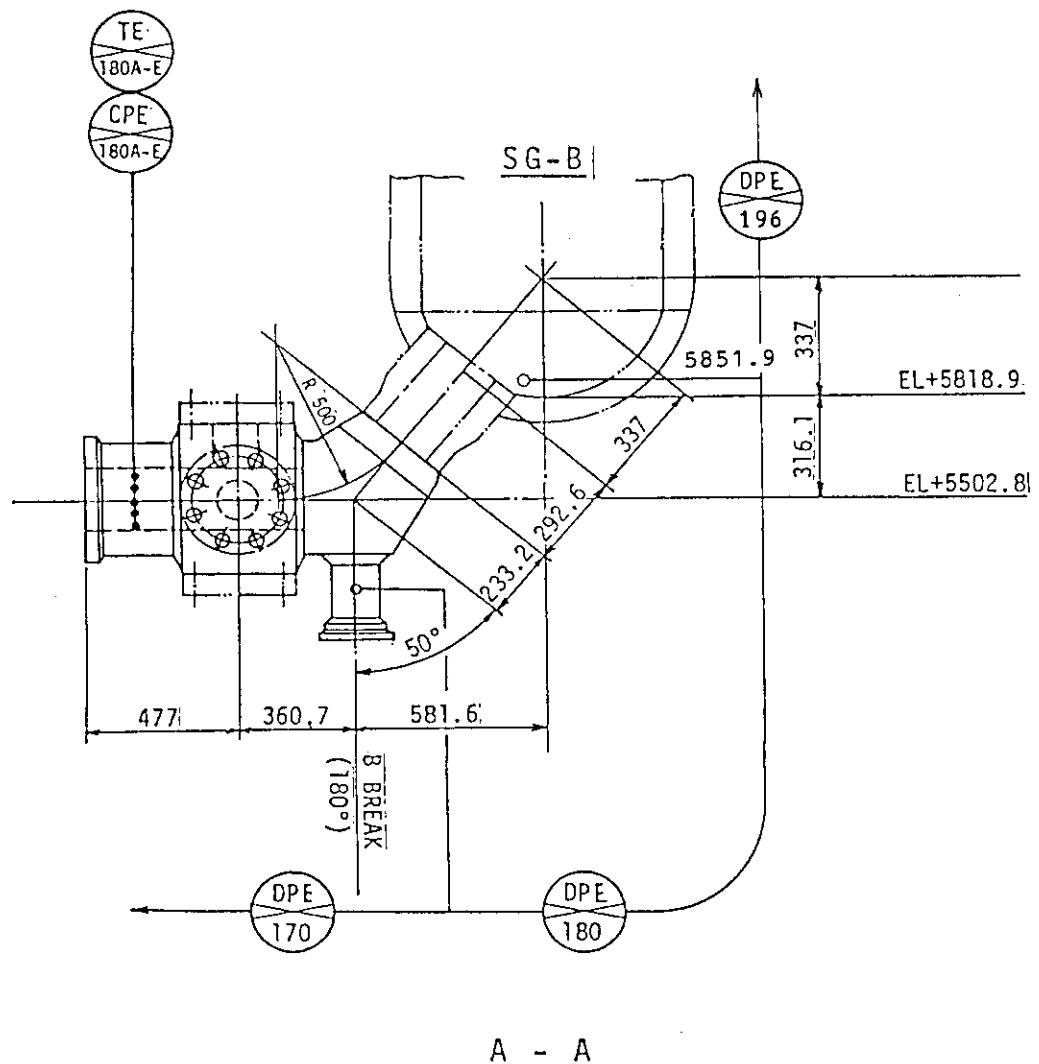
A - A

Fig. A.19 Instrument Locations for Inlet Pipe of Steam Generator B

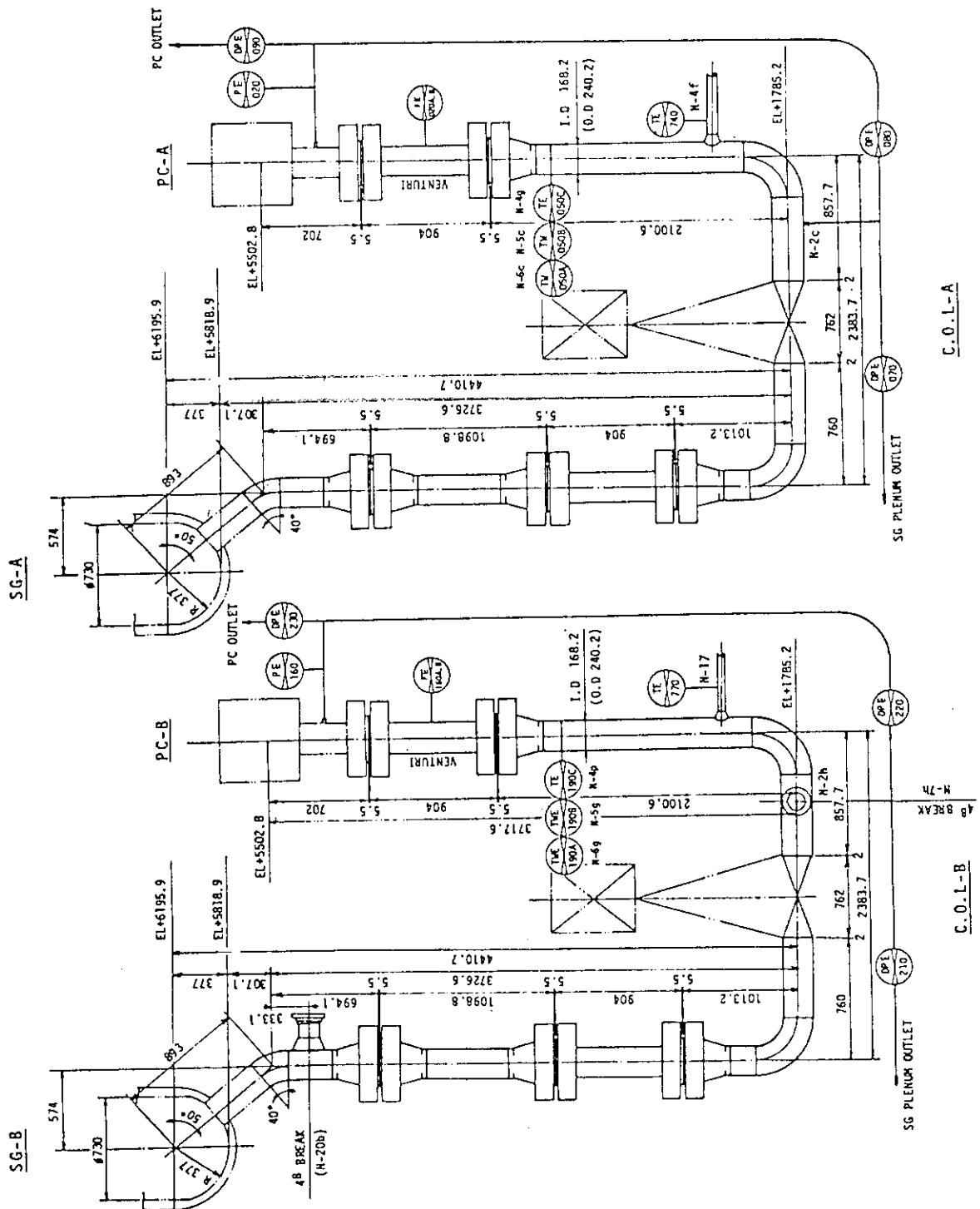


Fig. A.20 Locations of Selected Instruments for Crossover Legs A and B (I)

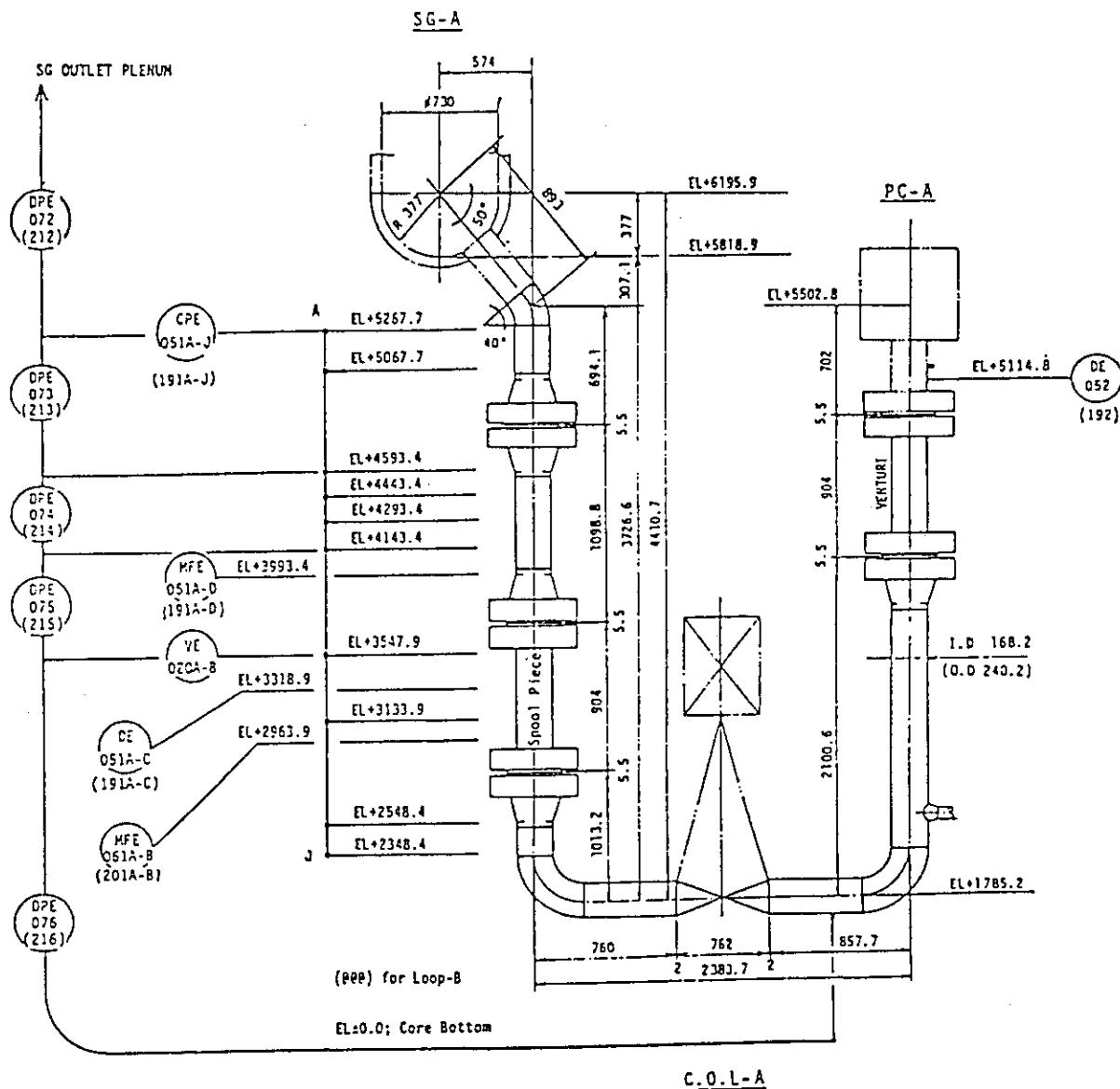


Fig. A.21 Locations of Selected Instruments for Crossover Legs A and B
(II)

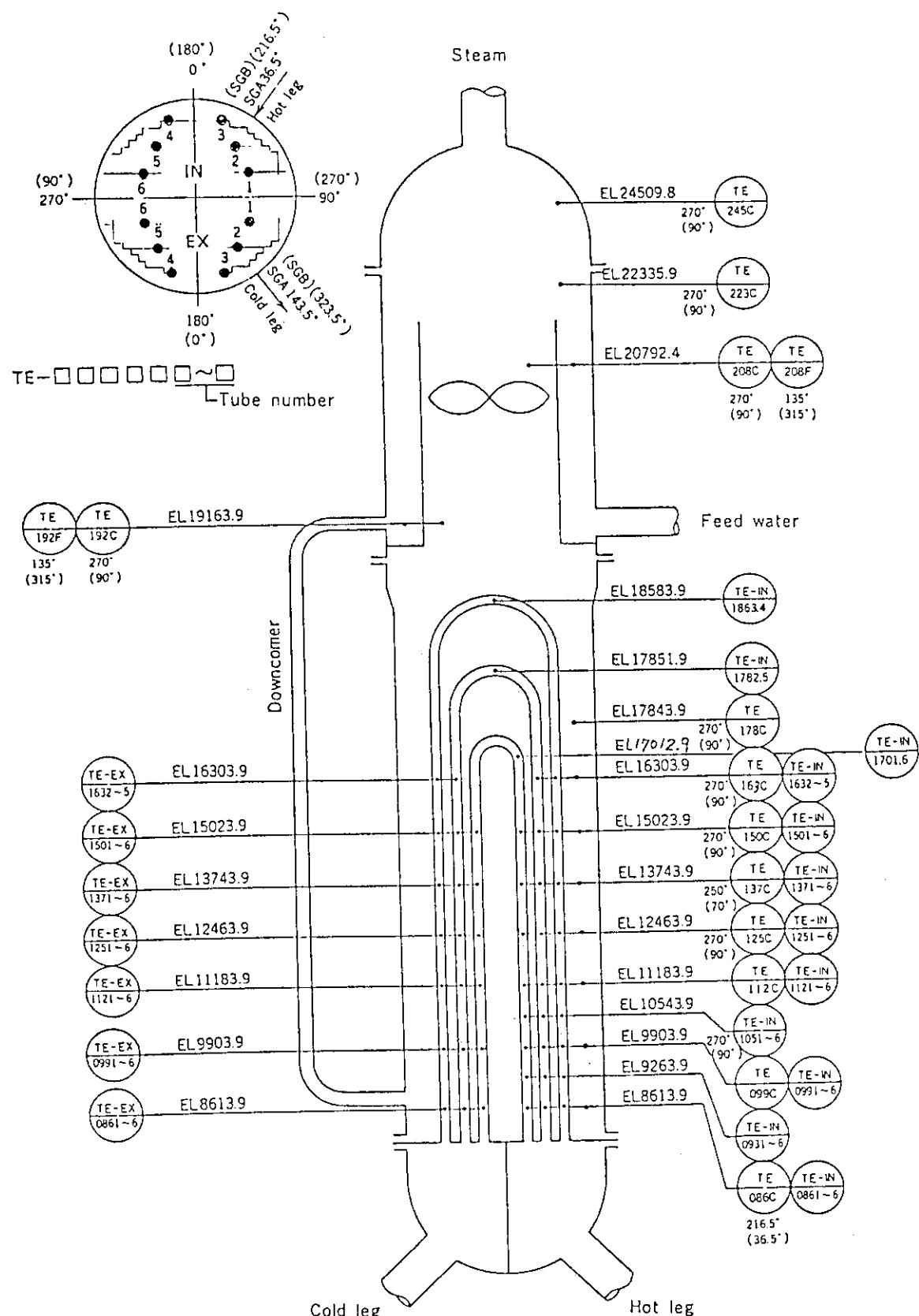


Fig. A.22 Locations of temperature Measurements for Steam Generator A and B (I)

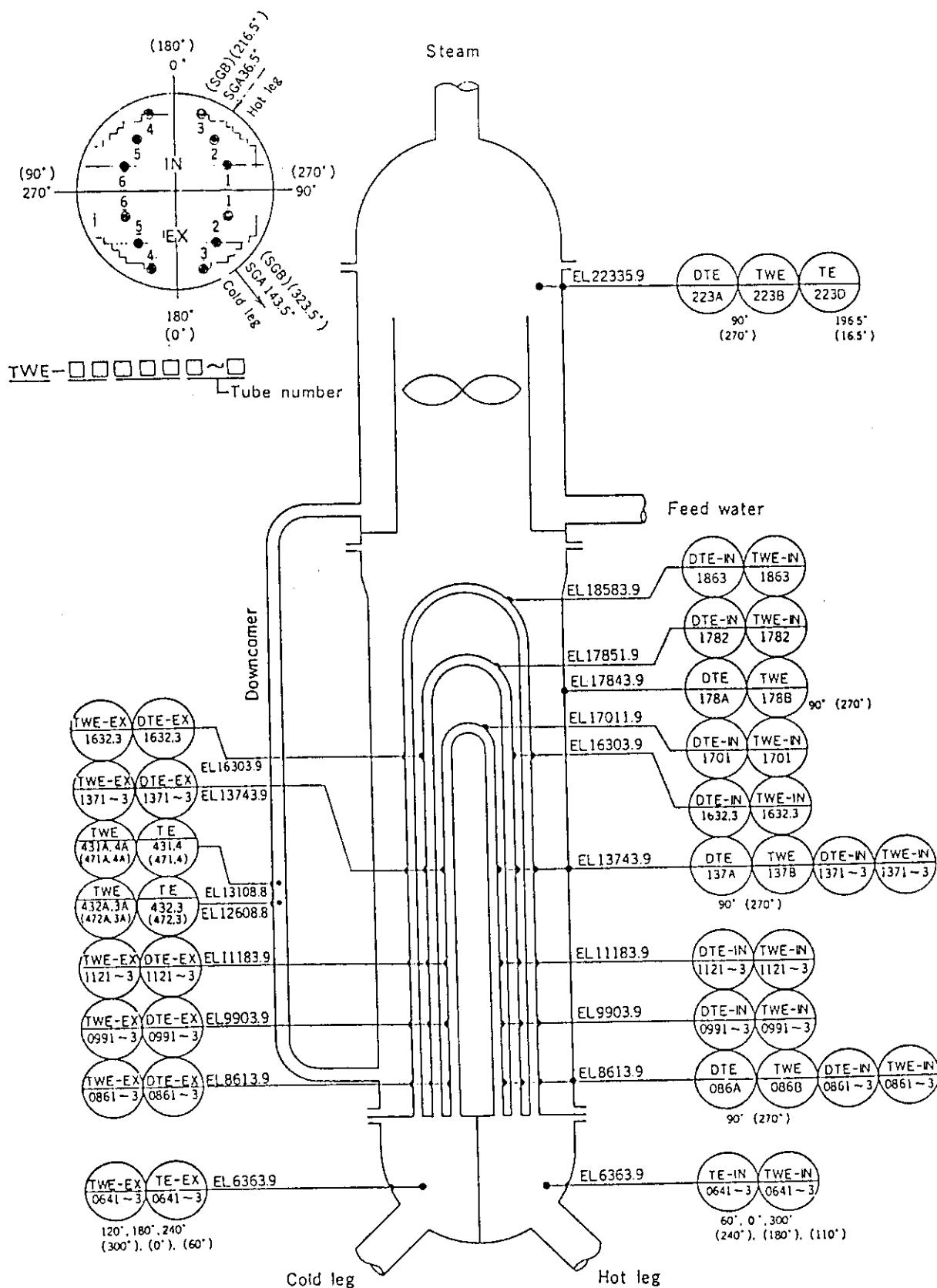


Fig. A.23 Locations of temperature Measurements for Steam Generator A and B (II)

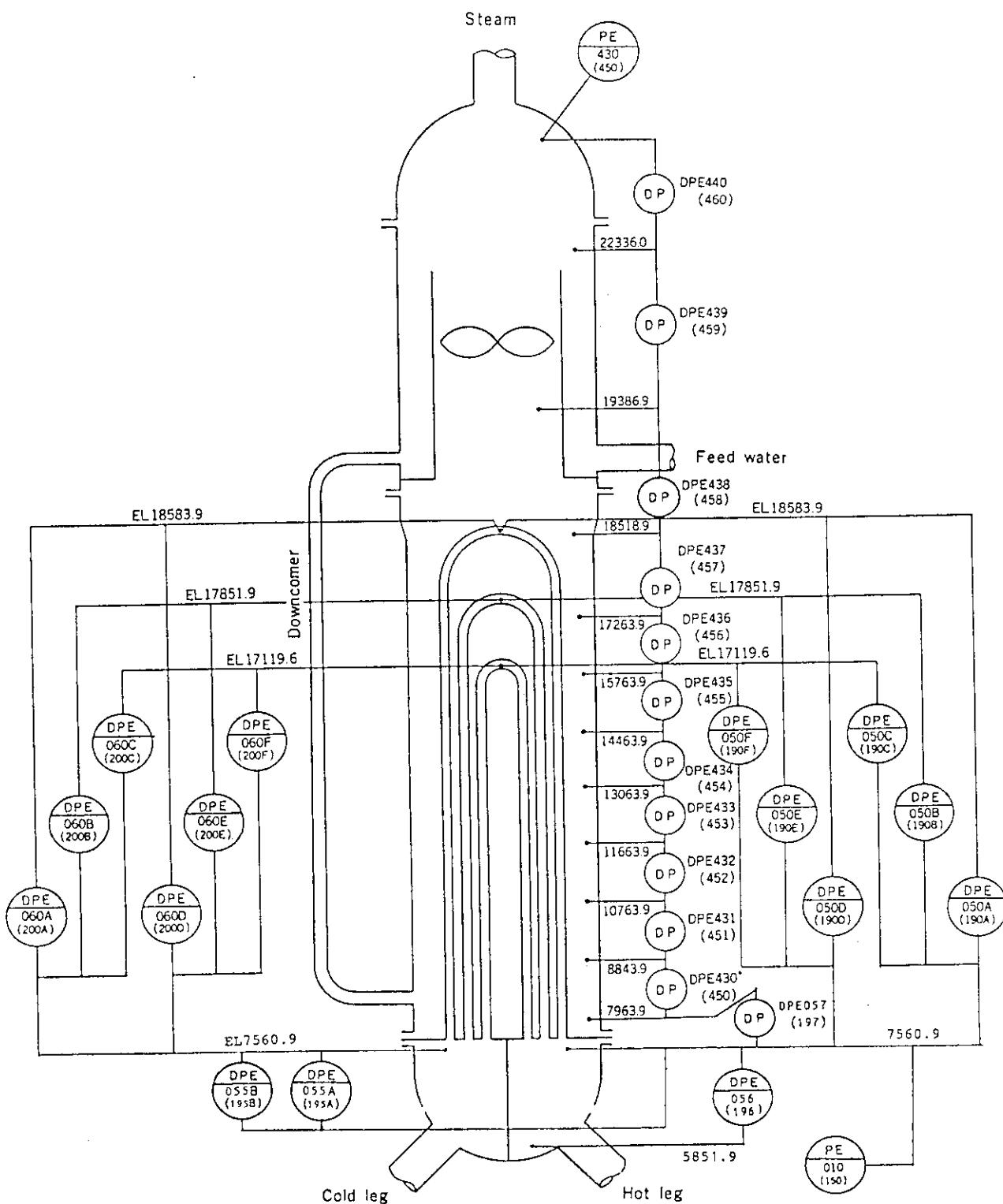


Fig. A.24 Locations of Pressure and Differential Pressure Measurements for Steam Generator A and B

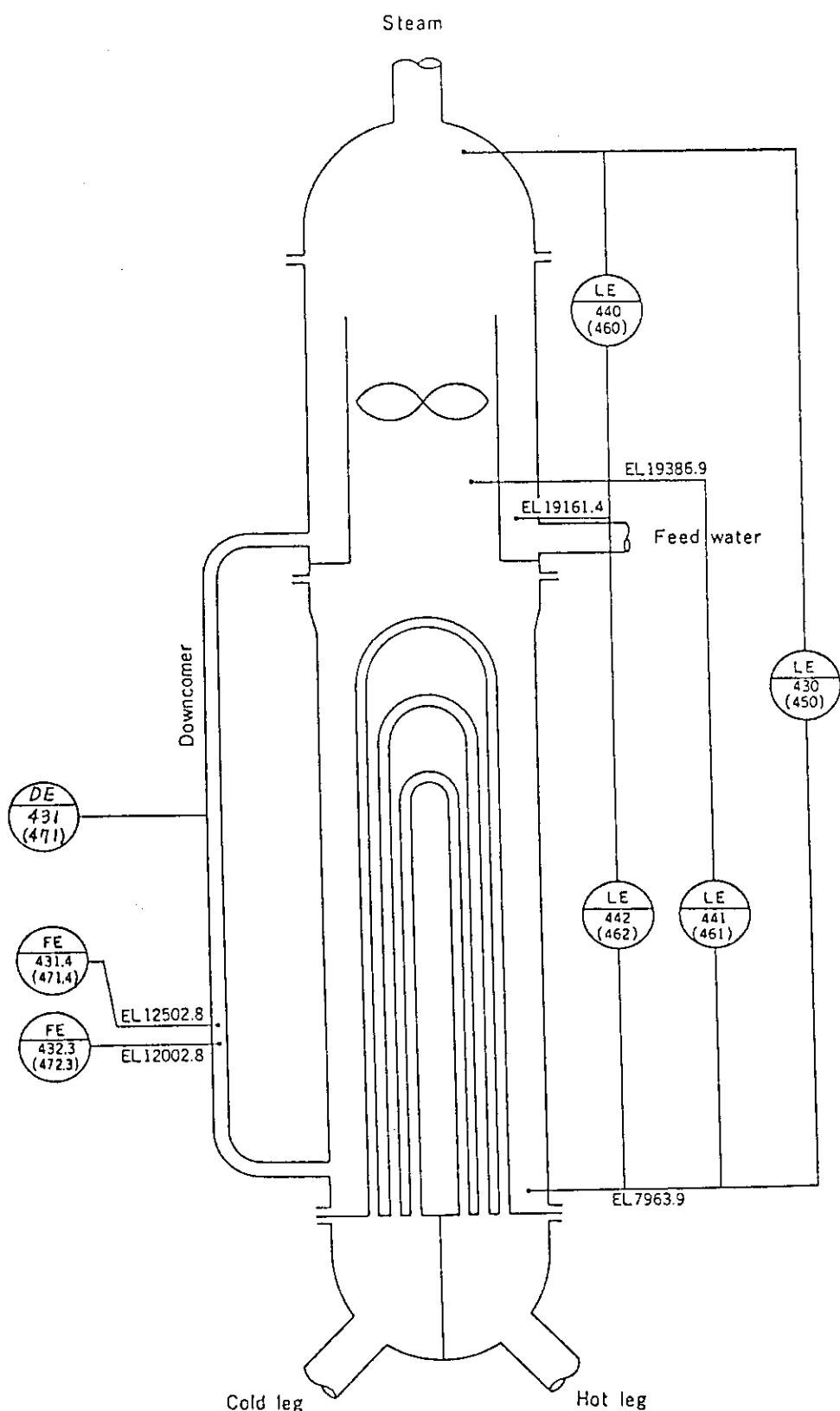


Fig. A.25 Locations of Steam Generators A and B Secondary Liquid Level and Downcomer Flow Measurements

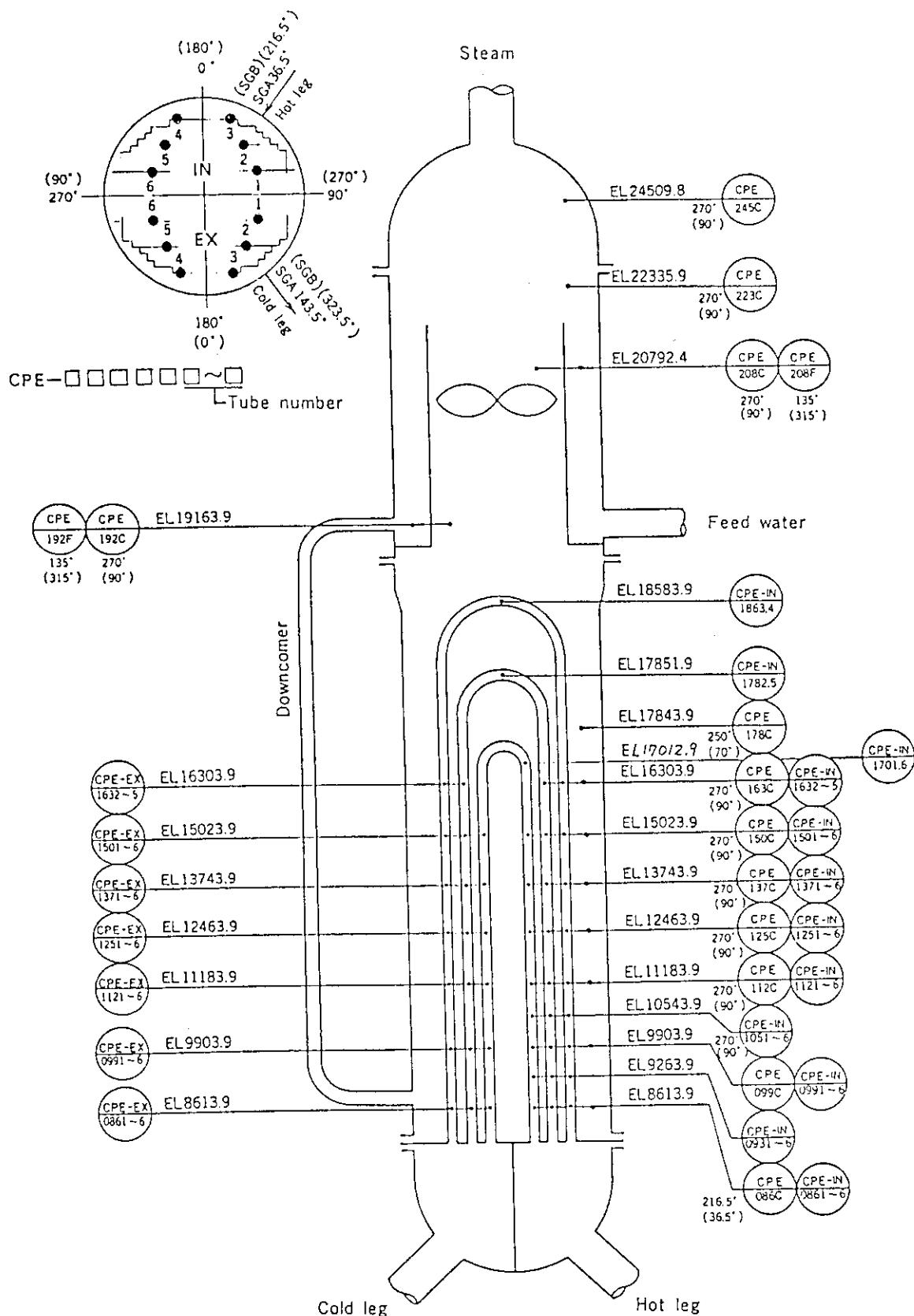


Fig. A.26 Locations of Steam Generators A and B Conductivity Probe Measurements

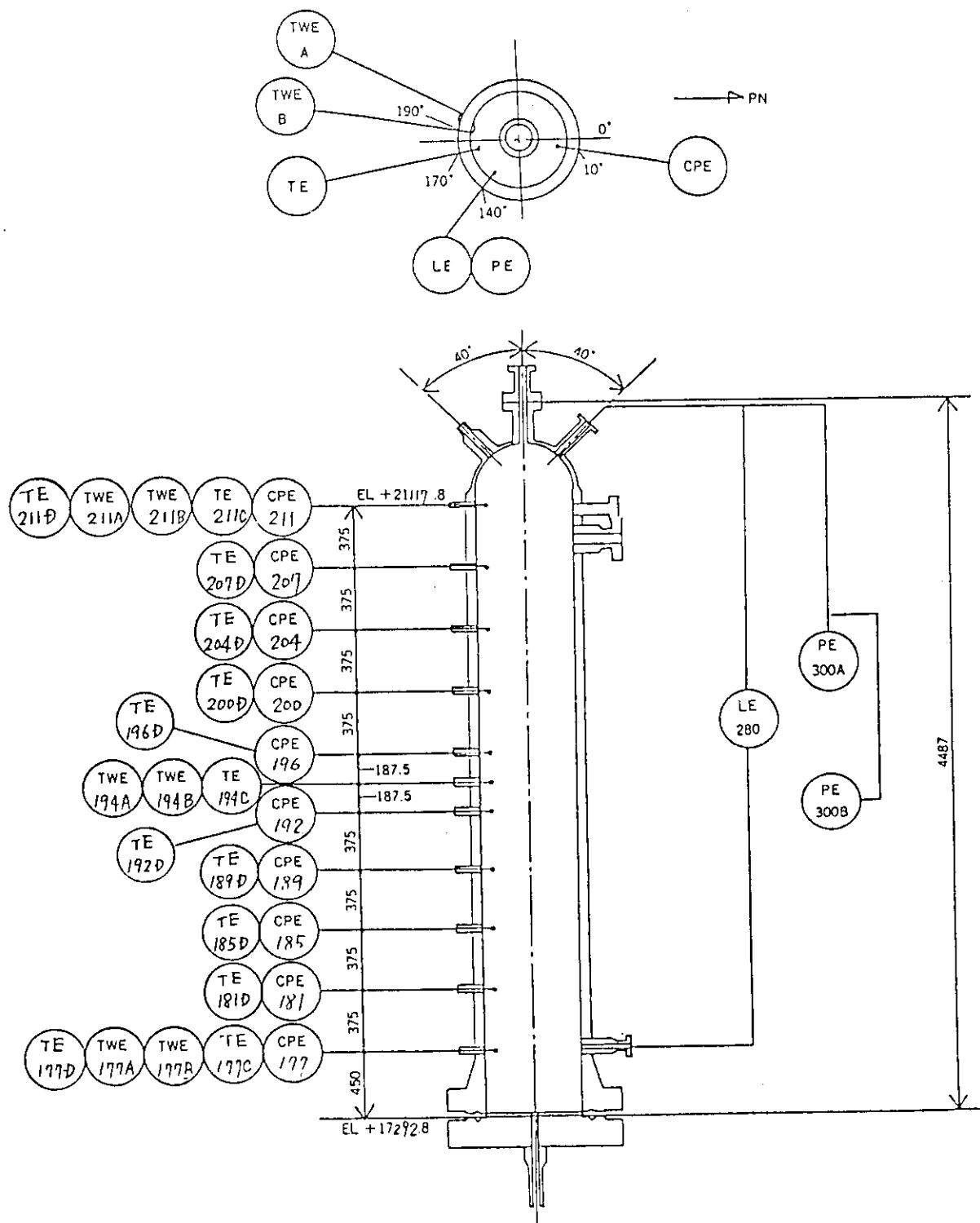


Fig. A.27 Locations of Selected Instruments for Pressurizer (I)

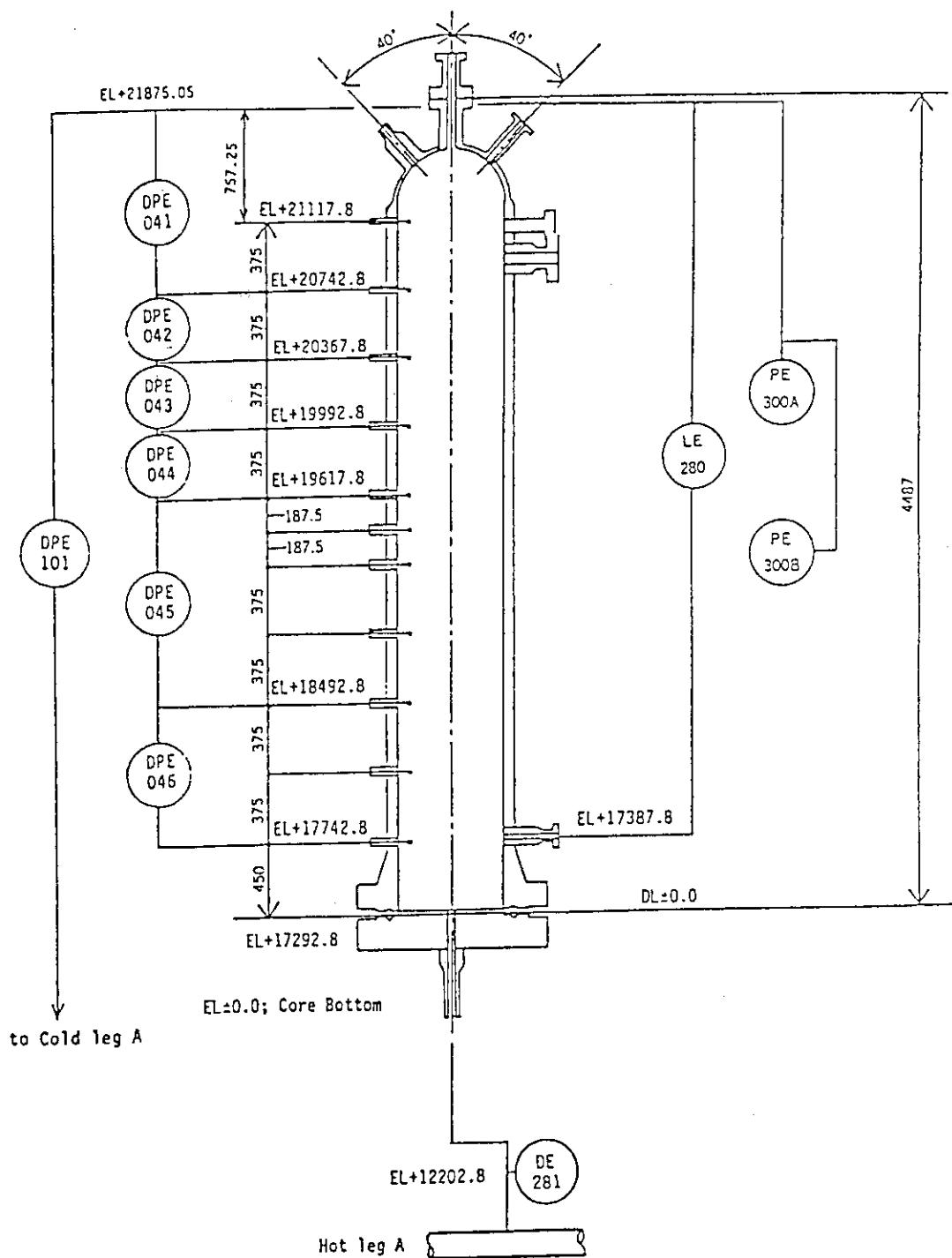


Fig. A.28 Locations of Selected Instruments for Pressurizer (II)

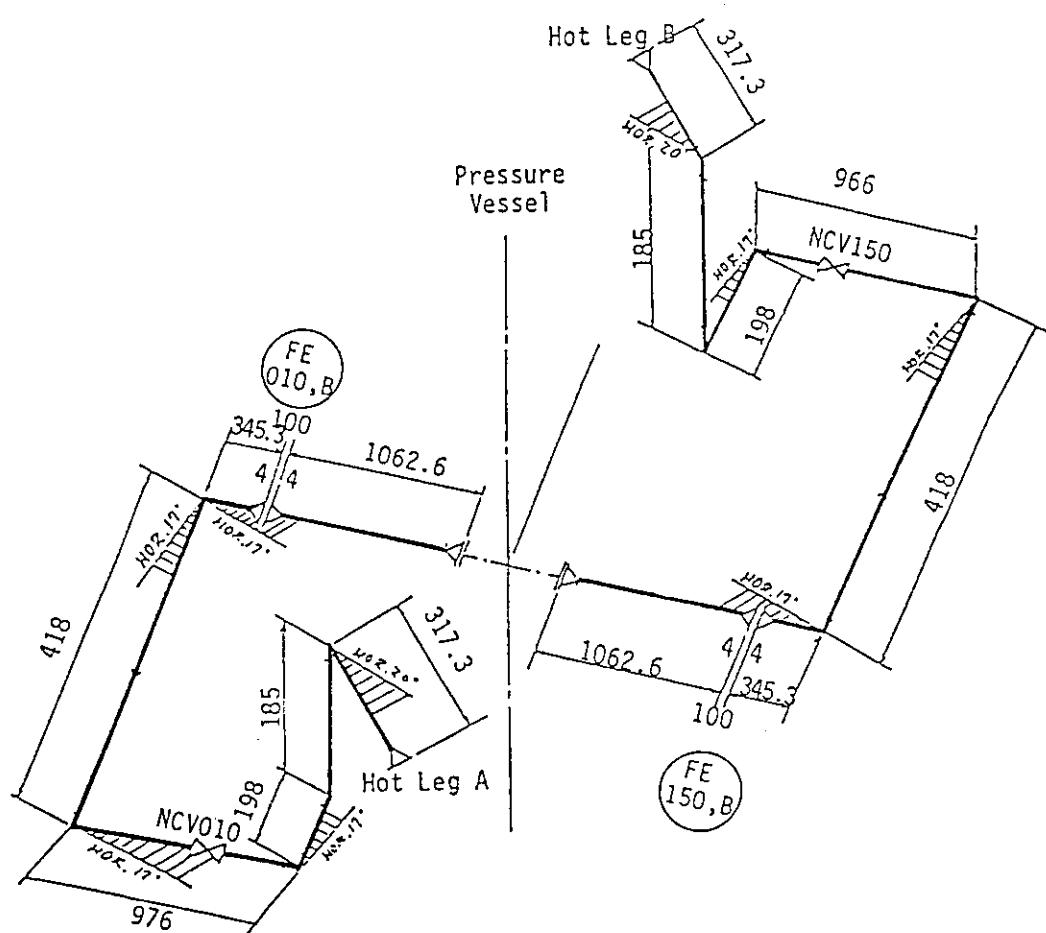


Fig. A.29 Hot Leg Leak Lines for Primary Loops A and B

Appendix B Data Reduction and Qualification Procedure

B.1 Data Reduction

The instrument signals recorded on the data loggers, YEWCOM 7000 and FACOM S-3300, in volts are converted into engineering units using appropriate conversion equations. Those instruments employing differential pressure cells, such as flowmeter and liquid level meter, require the calculation of fluid (single phase liquid or vapor) density from the local pressure and temperature using the steam table. A detailed description of the data acquisition and reduction processes is given in an earlier report [6].

B.2 Data Qualification

The data qualification method employed to prepare this report considered both automatic data qualification (ADQ) and manual qualification.

The ADQ checks for failed instruments by comparing the initial steady-state readings obtained for each test with those from previous tests having almost the same initial conditions in order to verify that the signal levels has not changed drastically from the previous tests. It also compares the steady-state signals with the readings of the instruments of the same type in proximity to check consistency of each instrument readings. Presently, ADQ is completed for checking all of the thermocouple data which accounts for about 70% of the LSTF test instrumentation channels.

Manual qualification was employed to check the rest of the instrumentation. The conduction probes, about 20% of the data channels, were relatively easy to check for the failure because of the simplicity of the instrument response. Of the remaining 10%, those suffer little from zero-level drift, such as pressure transducers, power meters, pump speed and vibration meters, and valve position indicators were also relatively easy to check for inconsistent readings.

The relatively few measurements that required extensive manual qualification effort include the flow meters, differential pressure transducers,

gamma densitometers and drag disc transducers. The validity of the flow rate and differential pressure data depends mostly upon whether the reading is in the sensitive range of the measurement or not. The data from these instruments are presented with some corrections based on calibration tests for each transducer which accounts for the static pressure effects on zero-level and sensitivity.

Table 2.2, the measurement list for the present test, includes a short statement on data quality for each data channel.

Data quality statements in this table are defined as follows:

GOOD means that the data have been reviewed manually or with ADQ or both and are believed to lie within the stated Span and Uncertainty values. These data can be used without reservation. However, in the case of conduction probe data, the use of data is subjective. For example, estimation of void fraction from such data requires skill and experience. These data should be used only with caution.

BAD means the data are not usable, probably because of a failure in the measuring channel. These data should not be used.

UNUSED means the sensor are not connected or installed in the environment to be measured, or the measured region was not used for the experiment. These data should not be used.

UNQUALIFIED means that the data were not or could not be qualified or classified with another category, i.e., the quality of these data could not be determined. But the data appear to reflect at least the qualitative changes in the environment and thus may provide limited information.

Appendix C Data Presentation

Most of experimental data obtained for Run SB-HL-04 are presented on microfiche contained in the inside back cover of this report. Figures on the microfiche are ordered as follows:

- (1) TE: Fluid temperature
- (2) DT: Differential temperature
- (3) TW: Heater rod and structure temperature
- (4) FE: Flow rate, measured with conventional (differential pressure) flowmeters
- (5) PE: Pressure
- (6) MI: Miscellaneous instrument signals (power, rotating speed, etc.)
- (7) LE: Collapsed water level
- (8) DP: Differential pressure
- (9) MF: Momentum flux
- (10) DE: Fluid density
- (11) CP: Conduction probe signal
- (12) RC: Two-phase flow data calculated with MF, DE and others.

ここに入るべきマイクロフィッシュは、別置してあります