



## Duquesne Light

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March 30, 1984

United States Nuclear Regulatory Commission  
Washington, DC 20555

ATTENTION: Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

SUBJECT: Beaver Valley Power Station - Unit No. 2  
Docket No. 50-412  
Response to Generic Letter 83-28

Gentlemen:

In Generic Letter 83-28, "Required Actions Based on Generic Implications of Salem ATWS Events," the NRC requested the status of current conformance with the positions contained in that letter. The date required to respond to this letter was delayed to April 1, 1984, by NRC letter of October 18, 1983. The Beaver Valley Power Station, Unit No. 2, response is enclosed.

Should you require further information concerning this response, please contact my staff.

DUQUESNE LIGHT COMPANY

By *E. J. Woolever*  
E. J. Woolever  
Vice President

KAT/wjs  
Enclosure

cc: Mr. H. R. Denton, Director NRR (w/enclosure)  
Mr. M. Lacitra, Project Manager (w/enclosure)  
Mr. G. Walton, NRC Resident Inspector (w/enclosure)

SUBSCRIBED AND SWORN TO BEFORE ME THIS  
29th DAY OF March, 1984.

*Anita Elaine Reiter*  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

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COMMONWEALTH OF PENNSYLVANIA )  
 ) SS:  
COUNTY OF ALLEGHENY )

On this 29th day of March, 1984, before me,  
a Notary Public in and for said Commonwealth and County, personally  
appeared E. J. Woolever, who being duly sworn, deposed and said that (1) he  
is Vice President of Duquesne Light, (2) he is duly authorized to execute  
and file the foregoing Submittal on behalf of said Company, and (3) the  
statements set forth in the Submittal are true and correct to the best of  
his knowledge.

Anita Elaine Reiter  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

BEAVER VALLEY POWER STATION - UNIT 2  
RESPONSE TO SPECIFIC ITEMS IN GENERIC LETTER 83-28

1.1 POST-TRIP REVIEW (PROGRAM DESCRIPTION AND PROCEDURE)

Position

Licensees and applicants shall describe their program for ensuring that unscheduled reactor shutdowns are analyzed and that a determination is made that the plant can be restarted safely. A report describing the program for review and analysis of such unscheduled reactor shutdowns should include, as a minimum:

1.1.1 The criteria for determining the acceptability of restart.

Response

Authorization or denial for plant restart will be the responsibility of the Operations Superintendent. He shall base his decision on the following criteria.

- a. Appropriate portions of the Draft Incident Report are complete, and present an effective reconstruction and analysis of the event.
- b. The Draft Incident Report identifies the cause of the event, and the cause has been corrected.
- c. A verification that the Reactor Trip System, Safety Injection System, RCS pressure, volume and temperature control systems, and Auxiliary Feed Systems performed as expected during the event and event recovery, has been performed.

- d. If a discrepancy in safety-related equipment or system operation was identified, corrective actions required are complete.

#### Postion

- 1.1.2 The responsibilities and authorities of personnel who will perform the review and analysis of these events.

#### Response

Initial review and analysis of the event will be performed by the Shift Operating Foreman. He will be responsible to accumulate data as directed by the Shift Supervisor, and record or include this data on a Draft Incident Report.

The Shift Supervisor will be responsible to ensure that information required to reconstruct and analyze the event is included in the Draft Incident Report. As a minimum he shall verify that the following information is included:

- a. Draft Incident Report Number. This provides traceability of the report.
- b. The event date and time.
- c. The date and time of report preparation.
- d. Reporting requirements.
- e. Identification of event. This identifies any Technical Specification that may have been violated.
- f. Plant conditions prior to the event. This includes plant mode, significant system status, surveillance test or



maintenance in progress, and any additional evolutions in progress significant to the event.

- g. A description of the event including sequence of events leading to, during, and after the event, method and time of initiating signal or event, protective system actions, and operator actions.
- h. Critique minutes. If a critique is conducted to examine the event, the minutes of the meeting will be included as part of the Draft Incident Report.
- i. An analysis of the event for safety implication, effects and consequences of the event, injuries, system damage, exposures, and activity released (gas or liquid).
- j. Applicable strip chart recordings that include as a minimum:
  - 1. Pressurizer Pressure
  - 2. Pressurizer Level
  - 3. Tave
  - 4. Steam Pressure
  - 5. Steam Generator Levels
  - 6. Feedwater Flows
  - 7. Steam Flows
- k. Plant computer printouts that include data five minutes prior to the event.

The Shift Supervisor will also be responsible to conduct an analysis of the event using the information described, and verify that information from different sources is consistent, any trends contributing to the event or resulting from the event are identified, and control, safety and indicating devices functioned as designed.

The Shift Supervisor will be responsible to conduct a critique, or ensure a critique is conducted to examine the event if for some reason any data, information, or sequence of events is in question.

The Operations Superintendent will be responsible to review the Draft Incident Report concerning the event. He shall verify that adequate information has been included to accurately reconstruct and analyze the event.

The Operations Superintendent, if not satisfied with the initial review or analysis of the event, or if doubt remains as to the cause of the trip or protective system operation, will have the responsibility to direct an independent evaluation of the event to be performed.

The Operations Superintendent will have final authority to grant or deny authorization of plant restart.

#### Position

- 1.1.3 The necessary qualifications and training for the responsible personnel.

#### Response

Qualifications and training for the responsible personnel are given below.

#### OPERATIONS SUPERINTENDENT

##### Qualifications:

1. Ten (10) years of power plant experience, of which three (3) years shall be nuclear power plant experience.

2. Academic training in an engineering or scientific field associated with power plants may be substituted on a one-for-one basis with the non-nuclear experience required above.
3. Experience and equivalent training normally required to be eligible for a Senior Reactor Operator's license.

TECHNICAL ADVISORY ENGINEER

Qualification:

1. Bachelor's Degree in Engineering or Physical Sciences which includes, as a minimum, one of the following disciplines:
  - a. Mathematics, including elementary calculus
  - b. Reactor physics, chemistry and materials
  - c. Reactor thermodynamics, fluid mechanics and heat transfer
  - d. Electrical engineering, including reactor control theory
2. Five (5) or more years of responsible power plant experience, two (2) years of which shall be nuclear.
3. Must possess, as a minimum, an NRC Senior Reactor Operator License for BVPS Unit 1 or BVPS Unit 2.
4. Has completed specialized Transient and Accident Response Training, which emphasizes ability for prompt recognition of and response to unusual events beyond normal emergency and contingency procedures.

#### NUCLEAR STATION OPERATING SUPERVISOR

##### Qualifications:

1. Eight (8) years of responsible power plant experience, of which three (3) years shall be nuclear power plant experience.
2. Academic or related technical training may be substituted on a one-for-one time basis with the non-nuclear experience required above.
3. Hold a Senior Reactor Operator's License on BVPS-1 and BVPS-2.

#### NUCLEAR SHIFT SUPERVISOR

##### Qualifications:

1. High school diploma or equivalent.
2. Four (4) years of responsible power plant experience, of which at least one (1) year shall be nuclear power plant experience.
3. Academic or related technical training may be substituted on a one-for-one basis for the non-nuclear experience required above.
4. Hold a Senior Reactor Operator's License for BVPS-1 and BVPS-2.

## NUCLEAR STATION OPERATING FOREMAN:

### Qualifications:

1. High school diploma or equivalent.
2. Four (4) years of responsible power plant experience, of which at least one (1) year shall be nuclear power plant experience.
3. Academic or related technical training may be substituted on a one-for-one time basis for the non-nuclear experience required above.
4. Hold a Senior Reactor operator's License or Reactor Operator's License for the Unit assigned.

### Position

- 1.1.4 The sources of plant information necessary to conduct the review and analysis. The sources of information should include the measures and equipment that provide the necessary detail and type of information to reconstruct the event accurately and in sufficient detail for proper understanding. (See Action 1.2)

### Response

As a minimum, each Draft Incident Report involving a reactor trip should include information collected from the following sources:

- a. Plant computer system
- b. Miscellaneous recorders and indicators
  1. Pressurizer Pressure

2. Pressurizer Level
  3. Tave
  4. Steam Pressure
  5. Steam Generator Levels
  6. Feedwater Flows
  7. Steam Flows
- c. Annunciators (including first out annunciators)
  - d. Status Lights
  - e. Operators Logs
  - f. Interviews with personnel

#### Position

- 1.1.5 The methods and criteria for comparing the event information with known or expected plant behavior (e.g., that safety-related equipment operates as required by the Technical Specifications or other performance specifications related to the safety function).

#### Response

Evaluation of safety-related equipment actuation will primarily be based on information derived from the plant computer system. The data and information will be displayed on CRT's, printers, and trend recorders.

The plant computer system sequence of events (SOE) provides initiating signals, and reference times for safety-related functions. The time interval between the initiating signal, and the appropriate control or safety feature will be determined, and then compared with maximum expected actuation time.

These response times will be recorded in the Draft Incident Report. Strip Chart recordings of RCS pressure and temperature, Pressurizer Level, and Steam Generator levels will be



compared with minimum and maximum expected values to verify expected plant performance.

As previously described, any safety-related equipment that does not perform as expected during the event, will be identified, and corrective actions must be completed prior to plant restart.

#### Position

- 1.1.6 The criteria for determining the need for independent assessment of an event (e.g., a case in which the cause of the event cannot be positively identified, a competent group such as Plant Operations Review Committee, will be consulted prior to authorizing restart) and guidelines on the preservation of physical evidence (both hardware and software) to support independent analysis of the event.

#### Response

The Operations Superintendent will determine the need for independent review of a trip event based on the following criteria:

- a. An effective reconstruction and analysis of the event cannot be performed or,
- b. The cause of the trip has not been determined or,
- c. Performance of specified systems is in question.

The information necessary to perform an independent evaluation (e.g., computer printouts, strip charts, etc.) will be maintained through normal administrative procedures in the Station Document Control File Room.

Copies of the information pertinent to the event will be attached to the Draft Incident Report to provide a complete record of the event. The Draft Incident Report will be filed by number, and maintained by the Technical Advisory Engineer.

#### Position

- 1.1.7 Items 1 through 6 above are considered to be the basis for the establishment of a systematic method to assess unscheduled reactor shutdowns. The systematic safety assessment procedures compiled from the above items, which are to be used in conducting the evaluation, should be in the report.

#### Response

Attachment I is Chapter 13 of the Beaver Valley Power Station Station Administrative Procedure, Preparation of Draft Incident Reports and Conduct of Critiques. At present, this procedure contains information specific to BVPS-1, However, the overall assessment for BVPS-2 will be performed in accordance with a similar procedure or this procedure will be modified to reflect corresponding BVPS-2 information.

## 1.2 POST-TRIP REVIEW: DATA AND INFORMATION CAPABILITY

### Position

Licensees and applicants shall have or have planned a capability to record, recall and display data and information to permit diagnosing the causes of unscheduled reactor shutdowns prior to restart and for ascertaining the proper functioning of safety-related equipment.

Adequate data and information shall be provided to correctly diagnose the cause of unscheduled reactor shutdowns and the proper functioning of safety-related equipment during these events using systematic safe assessment procedures (Action 1.1). The data information shall be displayed in a form that permits ease of assimilation and analysis by persons trained in the use of systematic safety assessment procedures. A report shall be prepared which describes and justifies the adequacy of equipment for diagnosing an unscheduled reactor shutdown. The report shall describe as a minimum:

- 1.2.1 Capability for assessing sequence of events (on-off indications)

### Response

The capability for assessing sequence of events is addressed below.

#### 1. Brief Description of Equipment

The major station monitoring systems at the Beaver Valley Power Station - Unit No. 2 are the:

- a. Plant Computer System
- b. ERF Computer System
- c. PAM Recorders and Indicators

- d. Annunciators
- e. Status Lights

#### Computer Systems

The computer systems are used for the monitoring of primary and secondary plant parameters. The plant computer obtains data by scanning analog and digital sensors. The ERF computer obtains data from the same sensors as the plant computer over a 1.54 MB communications loop. The computer systems then logs data, performs analog and digital trending, performs alarm limit supervision and annunciates off-normal conditions. Also included are reactor control and protection system monitoring, secondary plant performance calculations, and core physics monitoring.

#### Miscellaneous Recorders and Indicators

The safety-related display instrumentation needed to enable the operator to perform required manual safety functions for post-accident monitoring involve the following parameters:

- Tcold or Thot (measured, wide range)
- Pressurizer Water Level
- System Pressure (wide range)
- Containment Pressure
- Steam Line Pressure
- Steam Generator Water Level (wide range)
- Steam Generator Water Level (narrow range)
- Feedwater Flow
- Steam Flow

For each of the parameters, there are at least two channels of instrumentations, of which, one channel is recorded.

## Annunciators and Status Lights

The annunciator system consists of a large number of window displays segregated into groups generally according to process or function. One group of display windows has a first out feature, i.e., if a number of alarms on this group are annunciated almost simultaneously a means is provided to indicate which alarm occurred first.

The status of safety-related instrument bistables is monitored by status lights, annunciators and the computer. Containment isolation trip valves and safety-related motor-operated valves have their status monitored by lights on the main control board. Safety-related switchgear is monitored by indicating lights on the main control board.

### 2. Parameters Monitored

Parameters monitored are as listed in Attachment II.

### 3. Time Discrimination Between Events

Plant Computer System Sequence of Events (SOE) contacts time discrimination is 1m sec.

### 4. Format for Displaying Data and Information

SOE log print format will be similar to that shown in Figure 1. Parameters are presented in the order the events took place.

### 5. Capability for Retention of Data and Information

#### a. Plant Computer System

Sequence of events records from the control room high speed printer will be considered part of the logs of facility operation. They will be collected on a daily basis and transmitted to the Document Control Room. There they will be handled similar to quality assurance records. The records will be logged in and filed by date. Access to the records will be controlled and logged. They will be maintained for at least five years.

The reactor first out annunciator will be recorded during the post-trip review along with the initiating event from the plant computer system sequence of events. Also a copy of the plant computer system sequence of events printout will be attached to the post-trip review.

b. ERF Computer System

The storage of data in real time for specified inputs commencing two hours prior to an event and continuing for 12 hours after an event. The retention of data and information will be done on three levels. They are immediate storage on bulk memory (semi-conductor), intermediate storage on a moving head disk (MHD), and long term storage on magnetic tape. Any of this data or information can be printed or displayed if the data or information is in immediate storage or has been recalled from long term storage.

6. Power Sources

The plant computer is powered from the 120 V ac essential busses.



The ERF computer is powered from the ERF substation.

The Annunciator system is powered from the non-Class 1E 125 V dc station batteries.

The control board status lights are powered from a non-Class 1E 120 V ac power distribution panel.

#### Position

- 1.2.2 Capability for assessing the time history of analog variables needed to determine the cause of unscheduled reactor shutdowns, and the functioning of safety-related equipment.

#### Response

The capability for assessing the time history of needed analog variables is addressed below.

1. Brief description of equipment (same as 1.2.1)
2. Parameters monitors sampling rate, and bases or selected parameters and sampling rate.
  - a. Plant Computer System (PCS)
    - i. Analog Scan

The PCS scans samples of analog data, examines it, checks for high and low alarms, and stores the data in memory. All analog points are scanned at least once within a 60 sec. period. Analog scan rates of 5 sec., 10 sec., 15 sec., 30 sec., and 60 sec. are possible. The basic sampling rates are 5 sec. for flow measurements, 10 sec. for level

measurement, and 30 sec. for temperature measurement. The basic nominal analog scanning capability is 100 points per second. It is possible to change the sampling rate of all analog points from PCS consoles.

ii. Alarming

The input alarm program compares the input value with present (operator addressable) high and low alarm values, activates an audible alarm, displays the alarm on a status CRT and prints out an alarm message in red ink on the operations journal (OJ) printer. The CRT with display points in alarm that have been acknowledged by the operator. A return to normal message will be printed in black ink on the OJ printer.

iii. Analog Outputs for Trend Recorders

Sixteen operator addressable analog outputs are assigned for simultaneous analog trending on two dedicated trend recorders. The operators console provides for selecting any addressable desired input, and starting and stopping the trending. This analog trend function can be used to record suspected fluctuations in any measurement or to obtain data for future analysis of transients during plant startup or load changing.

iv. CRT for Visual Display

Three alarm CRTs, two status CRTs, and a utility CRT are provided. These CRTs are eight-color, alphanumeric, 25 in. diagonal units, with double

width/double height ASCII character sets, 24 lines x 40 characters. The CRTs have full screen memory capability in the refresh buffer with a 60 frame per second refresh rate.

Four console CRT's are provided. These are eight-color, alphanumeric, 19 in. diagonal, 48 line x 80 character displays. Each console includes an alphanumeric keyboard, numeric keyboard, control keyboard, 32 backlighted functional select push-buttons, 96 backlighted group select/annunciator pushbuttons, and a keylocked switch.

v. Pre/Post Trip Review

The post trip log collects the values of up to 120 analog points. The value of each analog point will be evaluable from a time window of 30 minutes prior to and 15 minutes after an unscheduled reactor shutdown at 15 second intervals. Printout of the log will automatically occur at 15 minutes after the unscheduled reactor shutdown as initiated by the reactor trip breakers. The printout will be on the control room high speed line printer. The operator can initiate a printout of the thirty minutes worth of data currently stored. Attachment III lists the data recorded by this log.

vi. Data Logging Functions

The Data Logging Functions will use the Process Data Base to provide required historical data records of selected plant variables. These variables will be assigned Computer Point Numbers

(CPNs) and could be instantaneous, calculated, boolean variables, and results from engineering/operational calculations. The data logging formats are printed by the computer, and the log formats, associated CPNs and data, output device, or logging periods may be added, changed, or deleted by on-line log generation procedures. All bad CPNs will be identified on the log output formats.

The PCS is currently logging up to 500 analog inputs automatically on log sheets with computer printed headings. These shift review logs can collect the values of the points, assigned by the operator, for an eight hour period at one hour intervals. The log will automatically print at the end of eight hours or on operator demand. The logs are printed on the control room high speed line printer, or trend printer.

The Daily Logs will contain the values of up to 200 CPNS. The value of each CPN is stored each hour. The log will be recorded on a high speed line printer at midnight and shall contain the last 24 hours of collected data, daily averages, and accumulated totals. The computer generates all headings and descriptions.

b. ERF Computer System (ERFCS)

i. Analog Scan

The ERFCS scans analog points similar to the PCS but with the following differences. The 2 second scan class is reserved for selected critical

parameters, in order to provide 2 second resolution of data on the Safety Parameter Display System (SPDS) displays. The remaining parameters are assigned to the other scan classes to the limits of the total system scan-rate capability. Parameters requiring a 3 second resolution will be assigned to the 5 second scan class. Whenever any other data is updated in displays, these are automatically moved to the 5 second scan class, up to the limits configured for the scan class.

ii. Alarming

Alarming on the ERFCS is the same as the PCS, except there is no alarm status CRT display available to the ERFCS in the control room. However, annunciator type alarms will be provided via the 96 backlighted group and elect/annunciator push-buttons on each user's console.

iii. Analog Outputs for Trend Recorders

Up to thirty-two addressable inputs may be selected for analog trending on 10 2-pen strip chart recorders in the TSC and 5 2-pen strip chart recorders in the ATSC.

iv. CRTs for Visual Display

Two programmer's CRT terminals (each assigned to a redundant CPU) will be provided. The display format will be in black and white with 24 lines x 80 characters and a 95 ASCII character set.

Seven user's consoles will be provided: two for the control room, two for the TSC, two for the ATSC, and one for the EOF. These CRTs are eight-color, alphanumeric, 19 in. diagonal units, and 48 lines x 80 characters. The CRTs have full screen memory capacity in the refresh buffer with a 60 frame per second refresh rate. Each user console has the same user's console functions capability as the PCS console.

3. Duration of Time History (minutes before trip and minutes after trip)

Same as 1.2.1.4, paragraph 5.

4. Format for displaying data including scale of time histories.

Display formats have not yet been determined.

5. Capability for retention of data, information, and physical evidence.

The plant computer printouts and strip charts will be considered part of the logs of facility operation. The printouts will be collected on a daily basis and transmitted to the Document Control Room. The strip charts will be collected when the roll is completed and transmitted to the Document Control Room. There they will be handled similar to quality assurance records. The records will be logged in and filed by date. Access to the records will be controlled and logged. They will be maintained for at least 5 years.



## 6. Power sources

The plant computer is powered from the 120 V ac essential busses. The 120 V ac essential busses are non-Class 1E and are uninterruptable power supplies which have reliable backup from station emergency batteries.

The ERF computer is powered from the ERF substation.

The Annunciator system is powered from non-Class 1E 125 V dc station batteries.

The control board status lights are powered from non-Class 1E 120 V ac power.

### Position

- 1.2.3 Other data and information provided to assess the cause of unscheduled reactor shutdowns.

### Response

Information points listed in 1.2.1 and 1.2.2 address the normal sources checked when attempting to identify the cause of an unscheduled reactor trip. In the event the Nuclear Shift Supervisor determines further information is needed, he will direct which indications should be checked based on the information available from checks of equipment listed in items 1.2.1 and 1.2.2.

Per Station Administration Manual Chapter 13, there are also restart criteria such that "If the cause of the trip cannot be determined, or there is question concerning the proper performance of equipment or systems during the trip, the Superintendent shall direct the Nuclear Station Operating Supervisor to

investigate the event." The cause of an unplanned event or Reactor Trip will determine the course of action to be taken during the investigation due to the amount of data realized from items 1.2.1 and 1.2.2.

Position

- 1.2.4 Schedule for any planned changes to existing data and information capability.

Response

The Beaver Valley computer design is, at this time, not fully finalized. However, no significant changes are anticipated.

## 2.1 EQUIPMENT CLASSIFICATION AND VENDOR INTERFACE (REACTOR TRIP SYSTEM COMPONENTS)

### Position

Licensees and applicants shall confirm that all components whose functioning is required to trip the reactor are identified as safety-related on documents, procedures, and information handling systems used in the plant to control safety-related activities, including maintenance, work orders, and parts replacement. In addition, for these components, licensees and applicants shall establish, implement and maintain a continuing program to ensure that vendor information is complete, current and controlled throughout the life of the plant, and appropriately referenced or incorporated in plant instructions and procedures. Vendors of these components should be contacted and an interface established. Where vendors cannot be identified, have gone out of business, or will not supply the information, the licensee or applicant shall assure that sufficient attention is paid to equipment maintenance, replacement, and repair, to compensate for the lack of vendor backup, to assure reactor trip system reliability. The vendor interface program shall include periodic communication with vendors to assure that all applicable information has been received. The program should use a system of positive feedback with vendors for mailings containing technical information. This could be accomplished by licensee acknowledgement for receipt of technical mailings. The programs shall also define the interface and division of responsibilities among the licensees and the nuclear and nonnuclear divisions of their vendors that provide service on reactor trip system components to assure that requisite control of and applicable instructions for maintenance work are provided.

### Response

A list of components whose function is required to trip the reactor has been developed and, in general, includes the control rods, control rod

drive mechanisms, reactor trip switchgear, solid state protection system, and the instrumentation and controls associated with the list of reactor trips in the Beaver Valley Power Station Unit No. 2 (BVPS-2) Final Safety Analysis Report, Table 7.2-1. These components are classified as safety-related with the exception of the devices which initiate Reactor Coolant Pump Bus undervoltage, under-frequency and breaker open trip. These reactor trips are backup or anticipatory trips which supplement the loss of flow protection provided by the loop flow instrumentation, which is designed as Class 1E equipment. No credit is taken for these trips in the Safety Analysis.

The various source documents which will be used as references for equipment classification are discussed in the response to Item 2.2. They are consistent in classifying the systems and components required for reactor trip as safety related.

The components identified as being required for a reactor trip are supplied through Westinghouse. Westinghouse has established a program by which information supplementing or revising instructions books or information necessary for proper and safe installation, operation, maintenance or repair of WRD supplied equipment or parts is provided in the form of Technical Bulletins. Safety related Technical Bulletins are accompanied by a return receipt and if the receipt is not acknowledged within a reasonable amount of time, the bulletins are retransmitted. In addition, a list of current Technical Bulletins and Data Letters will be prepared and transmitted periodically via a Technical Bulletin.

The technical bulletins will be received and evaluated to determine what actions need be taken.

## 2.2 EQUIPMENT CLASSIFICATION AND VENDOR INTERFACE (PROGRAMS FOR ALL SAFETY-RELATED COMPONENTS)

### Position

Licensees and applicants shall submit, for staff review, a description of their programs for safety-related equipment classification and vendor interface as described below:

2.2.1 For equipment classification, licensees and applicants shall describe their program for ensuring that all components of safety-related systems necessary for accomplishing required safety functions are identified as safety-related on documents, procedures, and information handling systems used in the plant to control safety-related activities, including maintenance, work orders and replacement parts. This description shall include:

2.2.1.1 The criteria for identifying components as safety-related within systems currently classified as safety-related. This shall not be interpreted to require changes in safety classification at the systems level.

### Response

The Duquesne Light Quality Assurance Program provides for classification of component within safety related systems in accordance with the following definitions:

"Safety Related" - Those plant features necessary to assure the integrity of the reactor coolant pressure boundary, the capability to shut down the reactor and maintain it in a safe shutdown condition, or the capability to prevent or mitigate the consequences of

accidents which could result in offsite exposures comparable to the guideline exposures of 10CFR100.

"Quality Assurance Category I" - Plant systems or portions of systems, structures and equipment whose failure or malfunction could cause a release of radioactivity that would endanger public safety. This category also includes equipment which is vital to a safe shutdown of the station and the removal of decay and sensible heat, or equipment which is necessary to prevent or mitigate consequences to the public of a postulated accident.

Thus, all safety related equipment is QA Category I. BVPS-2 FSAR 3.2 provides additional detail on the classification of structures, components, and systems.

#### Position

- 2.2.1.2 A description of the information handling system used to identify safety-related components (e.g., computerized equipment list) and the methods used for its development and validation.

#### Response

The Master Equipment List is being developed and identifies safety-related components. This is a computerized index by equipment mark number on Duquesne Light Company's computer which is accessible on terminals throughout the Station and at other Duquesne Light Company locations. The Master Equipment List, in addition to other information such as



manufacturer model numbers, drawing references, etc. will list the Quality Assurance Category.

In developing the Master Equipment List, one or more of the following source documents are used as references for determining the safety classification:

BVPS Unit 2 Quality Assurance Program - FSAR Section 3 Tables 3.2-1 and 3.2-2 include structures, systems and major components covered by the Operations Quality Assurance Program.

BVSP Unit 2 Operating Manual - the Operating Manual classifies each system (chapter) by QA Category and contains valve lists with the QA Category of each valve. The system category is based on QA Program Appendix B and the valve lists are being developed based on piping designation on the flow diagrams. The Operating Manual falls within the Quality Assurance program and any revisions would be subject to review in accordance with the QA program including review by the Onsite Safety Committee.

Mechanical Drawings - Fluid system schematics and isometrics have the piping designated ANSI Safety Class 1, 2, and 3. These drawings may be used to determine safety-related classifications of piping, pumps, valves and other mechanical components. Verification is in accordance with established design control programs.

Electrical Drawing and Raceway Schedules - These documents may be used in some cases as an aid in determining the safety-related classification of electrical equipment. Cable and conduit entering safety-

related electrical equipment would have identification numbers on the drawings corresponding to the color code used to identify Class 1E circuits. Verification is in accordance with established design control programs.

Original Equipment Specifications - The QA Category originally assigned to the equipment by the systems designer may be determined by reference to the original procurement specification.

In cases of discrepancies or missing information, the classification will be based on an engineering evaluation of the functional requirements versus the definitions of safety-related equipment in the Quality Assurance program.

#### Position

- 2.2.1.3 A description of the process by which station personnel use this information handling system to determine that an activity is safety-related and what procedures for maintenance, surveillance, parts replacement and other activities defined in the introduction to 10CFR50, Appendix B, apply to safety-related components.

#### Response

Where applicability of procedures is dependent upon activity or equipment classification, the classifications are specified by station personnel on appropriate documents. These classifications will be made by reference to one or more of the sources of information discussed under the response to Item 2.2.1.2

and/or an engineering judgement based on the definition of Safety Related or QA Category I as defined in the Quality Assurance Manual. Station procedures will reference the Master Equipment List as the primary information handling system to be used by station personnel in making determinations as to equipment classification.

Position

- 2.2.1.4 A description of the management controls utilized to verify that the procedures for preparation, validation and routine utilization of the information handling system have been followed.

Response

Control and update of the Master Equipment List will be performed under written procedures. Instructions for routine utilization of the Master Equipment List will be incorporated into written procedures. Approval and adherence to written procedures is performed in accordance with the requirements of the DLC Quality Assurance Program and these activities are subject to audit by the DLC Quality Assurance Department.

Position

- 2.2.1.5 A demonstration that appropriate design verification and qualification testing is specified for procurement of safety-related components. The specifications shall include qualification testing for expected safety service conditions and provide support for the

licensees' receipt of testing documentation to support the limits of life recommended by the supplier.

#### Response

Procurement documentation requirements for safety related equipment and spare parts are developed by review of the original procurement documents including any addenda or revisions. Where required, a Procurement Quality Documentation form is prepared specifying these requirements to the vendor. In addition, all Class 1E electrical components, replacement parts and spare parts require environmental and seismic qualification documentation submittals to comply with NUREG 7588. The Procurement Quality Documentation form for such Class 1E equipment will be reviewed for identification of the necessary supplier submittals.

Procurement Quality Documentation forms for safety related equipment are reviewed by Quality Control to ensure compliance with the procedure described above.

#### Position

- 2.2.1.6 Licensees and applicants need only to submit for staff review the equipment classification program for safety-related components. Although not required to be submitted for staff review, your equipment classification program should also include the broader class of structures, systems, and components important to safety required by GDC-1 (defined in 10CFR Part 50, Appendix A, "General Design Criteria Introduction").

### Response

For Beaver Valley, the term "important to safety" as used in GDC-1 (for which the establishment of a Quality Assurance program is required) is the same as Safety Related (Quality Assurance Category 1). Electric equipment important to safety is as defined in 10CFR50.49.

### Position

- 2.2.2 For vendor interface, licensees and applicants shall establish, implement, and maintain a continuing program to ensure that vendor information for safety-related components is complete, current and controlled throughout the life of their plants, and appropriately referenced or incorporated in plant instructions and procedures. Vendors of safety-related equipment should be contacted and an interface established. Where vendors cannot be identified, have gone out of business, or will not supply information, the licensee or applicant shall assure that sufficient attention is paid to equipment maintenance, replacement, and repair, to compensate for the lack of vendor backup, to assure reliability commensurate with its safety function (GDC-1). The program shall be closely coupled with action 2.2.1 above (equipment qualification). The program shall include periodic communication with vendors to assure that all applicable information has been received. The program should use a system of positive feedback with vendors for mailings containing technical information. This could be accomplished by licensee acknowledgment for receipt of technical mailings. It shall also define the interface and division of responsibilities among the licensee and the nuclear and nonnuclear divisions of their vendors that provide service on safety-related equipment to assure that requisite control of and applicable instructions for maintenance work on safety-related equipment are provided.

### Response

DLC is a member of a Nuclear Utility Task Action Committee (NUTAC) formed on September 1, 1983, for the specific purpose of defining an appropriate vendor interface program. After the NUTAC's efforts are complete, the results will be reviewed for applicability to Beaver Valley.

Described below are the past and current programs and the established information sources on defective or problem components implemented to assure the reliability of safety related components.

- a. In accordance with 10CFR50, Appendix A, General Design Criteria 1, BVPS-2 structures, systems and components important to safety are designed, fabricated, erected and tested to quality standards commensurate with the importance of the safety functions to be performed.

The Operations Quality Assurance Program, which applies to all safety related, structures, systems, and components, was established to assure that the installed quality of BVPS-2 is maintained throughout the life of the plant.

- b. Vendors of Class 1 safety related equipment are required by 10 CFR 21 (this is included as a provision of DLC procurement documents) to immediately notify the Commission of defects which could create a substantial safety hazard. The NRC in turn informs utilities of the possible significant matter through the IE Information Notice, Circulars, Bulletins, etc. Therefore, there is already a regulatory mechanism designed to make utilities aware of defects known to vendors.



An informal contact based program could tempt a vendor to circumvent 10 CFR 21 and codified QA requirements to maintain lower visibility on defective equipment thereby avoiding the undesirable marketing aspects of reporting.

In addition to information documents issued by the NRC, DLC receives information on many topics through INPO's NUCLEAR NETWORK, including: Operations and Maintenance Reminders; Significant Event Reports; and Operating Plant Experience Reports which augment the programs in place to identify substandard equipment performance.

- c. There is a high potential that vendors would not actively participate in this interface based on the extensive administrative burden associated with it in consideration of existing QA requirements imposed on them by regulation and the costs associated with this program at a time when orders for new equipment are in a rapid decline. There could be a tendency to "dump" overstocked equipment under the pretext of "improvement" which would force a utility to continuously changeout components without an explicit engineering bases, which has been qualified by testing and substantially setback the environmental qualification program and increase personnel exposure drastically in the process.

These past and current programs and established information sources on defective or problem components were implemented to assure the reliability of safety related components commensurate with their safety function. In addition, the extensive surveillance and maintenance program being established will serve to insure by testing that safety related equipment is operational.

### 3.1 POST-MAINTENANCE TESTING (REACTOR TRIP SYSTEM COMPONENTS)

The following actions are applicable to post-maintenance testing:

#### Position

- 3.1.1 Licensees and applicants shall submit the results of their review of test and maintenance procedures and Technical Specifications to assure that post-maintenance operability testing of safety-related components in the reactor trip system is required to be conducted and that the testing demonstrates that the equipment is capable of performing its safety functions before being returned to service.

#### Response

A procedure defining requirements for post-maintenance operability testing will be included in the BVPS-2 Operating Manual. The procedure will require the Operations Group to review maintenance requests prior to the initiation of work and again following the completion of work to determine what, if any, post maintenance operability testing is required and to verify satisfactory completion of testing prior to returning the equipment to an operable status. Post-maintenance operability testing will be performed in accordance with written procedures when required to demonstrate operability as defined in the Technical Specifications.

#### Position

- 3.1.2 Licensees and applicants shall submit the results of their check of vendor and engineering recommendations to ensure that any appropriate test guidance is included in the test and maintenance procedures or the Technical Specifications, where required.

Response

The maintenance procedures and Technical Specifications are currently being prepared. The vendor and engineering recommendations are being included in these as they are written.

Position

- 3.1.3 Licensees and applicants shall identify, if applicable, any post-maintenance test requirements in existing Technical Specifications which can be demonstrated to degrade rather than enhance safety. Appropriate changes to these test requirements, with supporting justification, shall be submitted for staff approval. (Note that action 4.5 discusses on-line system functional testing.)

Response

This request is not applicable to Beaver Valley Unit No. 2 (BVPS-2); as the BVPS-2 Technical Specifications have not yet been written.

### 3.2 POST-MAINTENANCE TESTING (ALL OTHER SAFETY-RELATED COMPONENTS)

The following actions are applicable to post-maintenance testing:

#### Position

- 3.2.1 Licensees and applicants shall submit a report documenting the extending of test and maintenance procedures and Technical Specifications review to assure that post-maintenance operability testing of all safety-related equipment is required to be conducted and that the testing demonstrates that the equipment is capable of performing its safety functions before being returned to service.

#### Response

A procedure defining requirements for post-maintenance operability testing will be included in the BVPS-2 Operating Manual as stated in 3.1. The procedure will require the Operations Group to review maintenance requests prior to the initiation of work and again following the completion of work to determine what, if any, post maintenance operability testing is required and to verify satisfactory completion of testing prior to returning the equipment to an operable status. Post-maintenance operability testing will be performed in accordance with written procedures when required to demonstrate operability as defined in the Technical Specifications.

The requirement for post-maintenance testing will be controlled using the work order or Maintenance Work Request (MWR) and not individual maintenance procedures. This must be done in this fashion since specific procedures for troubleshooting electrical and instrumentation problems are not provided. Often, the corrective action will be applied during the troubleshooting stage which would negate the need for the more extensive

Corrective Maintenance Procedures. Prior to the shift supervisor signing the work order as being acceptable for return to service, he must perform the appropriate surveillance test or a test written for the component to verify its operability.

Through the requirement that safety related work be performed with an MWR, assurance is provided that post maintenance testing by operations will be performed and comply with the applicable component surveillance requirements. The test procedures written for each safety related component will verify its operability in accordance with its unique surveillance specification(s)

#### Position

- 3.2.2 Licensees and applicants shall submit the results of their check of vendor and engineering recommendations to ensure that any appropriate test guidance is included in the test and maintenance procedures or the Technical Specifications where required.

#### Response

The maintenance procedures and Technical Specifications are currently being prepared. The vendor and engineering recommendations are being included in these as they are written.

#### Position

- 3.2.3 Licensees and applicants shall identify, if applicable, any post-maintenance test requirements in existing Technical Specifications which are perceived to degrade rather than enhance safety. Appropriate changes to these test requirements, with supporting justification, shall be submitted for staff approval.

Response

This request is not applicable to Beaver Valley Unit 2 (BVPS-2); as, the BVPS-2 Technical Specifications have not yet been written.



#### 4.1 REACTOR TRIP SYSTEM RELIABILITY (VENDOR-RELATED MODIFICATIONS)

##### Position

All vendor-recommended reactor trip breaker modifications shall be reviewed to verify that either: (1) each modification has, in fact, been implemented; or (2) a written evaluation of the technical reasons for not implementing a modification exists.

For example, the modifications recommended by Westinghouse in NCD-Elec-18 for the DB-50 breakers and a March 31, 1983, letter for the DS-416 breakers shall be implemented or a justification for not implementing shall be made available. Modifications not previously made shall be incorporated or a written evaluation shall be provided.

##### Response

The only vendor-recommended reactor trip breaker modification applicable to BVPS-2 is that discussed in the March 31, 1983 Westinghouse letter. This letter applies to DS-416 UVTA's only, and addresses UVTA dimensional variations. Subsequent to this letter, on April 21, 1983 a letter requiring DS-416 UVTA replacement with modified shaft widened grooves for the retaining ring was issued. (NS-EPR-2753, E. P. Rahe of Westinghouse to R. C. DeYoung of NRC). As indicated in the letter of April 21, Westinghouse has committed to replace UVTAs on the DS-416 reactor trip switchgear supplied for its Nuclear Steam Supply System so that, 1) the new attachments have modified (widened) grooves to accommodate the new retaining rings, 2) manufacturing drawings have been revised and quality control procedures modified so that critical design dimensions are maintained during manufacture, and 3) a field installation procedure has been provided for proper alignment and interface of the attachment with the breaker trip shaft. These replacement devices will be marked with a serial numbering system. The UVTA replacement for BVPS-2 will be completed prior to startup.

4.2 REACTOR TRIP SYSTEM RELIABILITY (PREVENTATIVE MAINTENANCE AND SURVEILLANCE PROGRAM FOR REACTOR TRIP BREAKERS)

Position

Licensees and applicants shall describe their preventative maintenance and surveillance program to ensure reliable reactor trip breaker operation. The program shall include the following:

- 4.2.1 A planned program of periodic maintenance, including lubrication, housekeeping, and other items recommended by the equipment supplier.

Response

Westinghouse is conducting, for the Westinghouse Owner's Group, a compilation of all existing maintenance information regarding switchgear, including lessons learned in the post-Salem interval.

When the WOG program is finalized, DLC will review the program and adopt the preventative maintenance recommendations determined necessary to maintain the reactor trip breakers.

Each reactor trip breaker automatic trip function will be tested at a bi-monthly frequency.

A manual reactor trip test will be conducted within seven days prior to each start-up. This test will include a visual verification of breaker position for the reactor trip and bypass breakers and will be actuated from each manual trip switch in the control room.

In addition, the response time of each reactor trip breaker will be tested at a refueling frequency. This test will

include actuation with both the undervoltage coil and the shunt coil in service, actuation with only the undervoltage coil in service, and actuation with only the shunt coil in service.

#### Position

- 4.2.2 Trending of parameters affecting operation and measured during testing to forecast degradation of operability.

#### Response

A program to trend the trip and bypass breakers operational response time and a select set of adjustments, repairs and component failures that may aid in identifying degradation in the safety-related function of the breakers will be developed. The trending program will utilize data obtained from periodic surveillance testing and from actual actuation times of reactor trips produced by plant transients.

The time response data of the reactor trip breakers, along with other pertinent information used to analyze each situation, will be recorded after each reactor trip breaker event. This data will be reviewed and evaluated to determine if the breakers functioned properly and to forecast any possible degradation in future operability.

Trend report results of the reactor trip breakers will be issued periodically to the plant's upper management staff. Any significant degradations found during the breaker trending will be immediately identified to Operations, Maintenance, and upper management for corrective action.

Position

- 4.2.3 Life testing of the breakers (including the trip attachments) on an acceptable sample size.

Response

See response to Position 4.2.4.

Position

- 4.2.4 Periodic replacement of breakers or components consistent with demonstrated life cycles.

Response

Duquesne Light is participating with the Westinghouse Owners Group on this issue and will evaluate the recommendations issued following completion of this analyses. However, DLC is taking exception to replacement of these components based strictly on life cycles as Duquesne Light Company's interpretation of action item 4.2 is to provide a high degree of confidence that the reactor trip breakers will perform their safety function when required. This is assured through a planned program of preventative maintenance and surveillance that would detect breaker degradation. In view of this action items 4.2.3 and 4.2.4 appear to be an extension of the environmental qualification rule as published in 48 FR 2729. Paragraph 50.49 (c) states in part that electrical equipment important to safety and located in a mild environment is not included under 10 CFR 50.49. Since the reactor trip breaker are safety-related and located in a mild environment they should not be required to be qualified per 10 CFR 50.49 (e).

Clarification is provided for not including mild environment equipment in the 'Comments On The Proposed Rule' published in 48 FR 2729. The response to issue 3 of the comments states:

"The Commission has concluded that the general quality and surveillance requirements applicable to electric equipment as a result of other commission regulations, . . . are sufficient to ensure adequate performance of electric equipment important to safety located in mild environments. Since it has been concluded . . . provided they fully satisfy all other applicable regulations, the Commission has determined that no additional requirements are necessary . . . in order for licensees to satisfy, . . . , existing license conditions or technical specifications calling for qualification of safety-related electric equipment . . ."

The responses to action items 4.2.1 and 4.2.2 describes the Beaver Valley Power Station Unit 2 planned program for maintenance and surveillance of the reactor trip breakers and bypass breakers. Provided below is a brief description of the programs described under action items 4.2.1 and 4.2.2 and the programs which satisfy other applicable regulations.

- a. An 18 month preventative maintenance program for the trip and bypass breakers based on Westinghouse recommendations. This program will incorporate all pertinent Westinghouse recommendations.
- b. An 18 month time test of the trip breakers which is used to evaluate the overall trip times assumed in the FSAR.
- c. Independent testing of the shunt and undervoltage trip device on the trip breakers during the 18 month time test.

- d. Functional testing of the trip and bypass breakers via the manual trip circuitry prior to start-up.
- e. A bi-monthly functional test of the trip breakers via the solid state protection system.
- f. Post-trip review of the trip breaker's time response to a reactor trip signal to verify acceptable trip time.
- g. A trending program covering trip and bypass breakers time response (actual trips and testing) and a select set of adjustments, repairs and component failures.
- h. Quality Assurance audits of Maintenance and Technical Specifications to ensure compliance with station programs and technical specification requirements.

The very heart of surveillance and time response testing is to assure that a safety-related component will perform its intended function within the required limits necessary to meet the assumptions and analysis for the accidents evaluated in the FSAR and delineated in the technical specifications. DLC recognizes that the reactor trip breakers are of paramount importance in meeting these FSAR assumptions. DLC believes the trending of breaker performance, an active maintenance program and insitu testing will provide a more realistic representation of breaker operation since this mode of testing addresses unknowns and variables such as test methodology, plant specific maintenance/operating practices and mild environment aspects. Therefore, the insitu test and trending programs are equivalent and perhaps superior, to life cycle testing and replacement.

Reliability is maximized when results of insitu test data is trended over periods of time, thus establishing a realistic bases for maintenance. Replacement based on time constraints



or cycles alone would preclude this important aspect from being observed and perhaps only correct symptoms of the problem while leaving the problem's primary contributor uncorrected. In addition, replacement of a device that is performing as designed, based solely on experimental data could introduce more variables through manufacturing, installation or handling errors as realized by Salem and identified in sections 2.3.2, 2.4 and 3.2.5 of NUREG-1000 Volume 1.

Based on the items discussed above, DLC believes that BVPS-2 will satisfy the safety aspects and criteria on the reactor trip and bypass breakers, thus, providing the qualitative justification for assuring the highest confidence level is maintained to ensure adequate performance as indicated in 48 FR 2729. Periodic replacement of the breakers and their components will be performed when surveillance, maintenance or trending identifies degradation.

DLC will also review the Westinghouse Owners Group Report when it is issued and adopt the recommendations determined necessary in maintaining the trip breakers in the highest performance state available.

#### 4.3 REACTOR TRIP SYSTEM RELIABILITY (AUTOMATIC ACTUATION OF SHUNT TRIP ATTACHMENT FOR WESTINGHOUSE AND B&W PLANTS)

##### Position

Westinghouse and B&W reactors shall be modified by providing automatic reactor trip system actuation of the breakers shunt trip attachments. The shunt trip attachment shall be considered safety-related (Class IE).

##### Response

The reactor trip system on Westinghouse Pressurized Water Reactors has been demonstrated to be a highly reliable system through many accumulated years of reactor operation. Despite the event at the Salem plant, the system remains a highly reliable system as shown by many studies. The Salem ATWS event resulted primarily from the lack of maintenance. Since that time, much greater attention has been given to reactor trip breaker maintenance. The Westinghouse Owners Group has been developing extensive documents on the maintenance of the reactor trip breakers. However, even before the Salem event, Beaver Valley Unit 1 had maintenance procedures in place for these breakers. This regular maintenance has been at least partly responsible for the excellent breaker reliability record at Beaver Valley. As discussed in Section 4.2, a similar program will be instituted for Beaver Valley Unit 2. In addition, even if the most severe ATWS event were to occur, the Westinghouse design has been shown to remain within the applicable ASME limitations on over pressure (see WCAP-8330). Despite this, the NRC has recently required Westinghouse plants to install an additional ATWS mitigation system (AMSAC) and may require a diverse scram system. Both of these modifications would increase the cost and complexity of the plant with very little resulting improvement in the level of public safety.

Thus, because of the record of reliability of reactor trip breakers and because of the additional, redundant requirements being placed upon Westinghouse plants, DLC does not believe that the shunt trip actuation will provide substantial, additional protection which is required for the public health and safety.

4.4 REACTOR TRIP SYSTEM RELIABILITY (IMPROVEMENTS IN MAINTENANCE AND TEST PROCEDURES FOR B&W PLANTS)

Position

Licensees and applicants with B&W reactors shall apply safety-related maintenance and test procedures to the diverse reactor trip feature provided by interrupting power to control rods through the silicon controlled rectifiers.

This action shall not be interpreted to require hardware changes or additional environmental or seismic qualification of these components.

Response

Beaver Valley Unit 2 has a Westinghouse nuclear steam supply system, therefore, this item is not applicable.

#### 4.5 REACTOR TRIP SYSTEM RELIABILITY (SYSTEM FUNCTIONAL TESTING)

##### Position

On-line functional testing of the reactor trip system, including independent testing of the diverse trip features, shall be performed on all plants.

- 4.5.1 The diverse trip features to be tested include the breaker undervoltage and shunt trip features on Westinghouse, B&W (see Action 4.3 above) and CE plants; the circuitry used for power interruption with the silicon controlled rectifiers on B&W plants (see Action 4.4 above); and the scram pilot valve and backup scram valves (including all initiating circuitry) on CE plants.

##### Response

- a. Automatic Inputs - Instrument channel, relay channel, breaker and valve contact inputs to the Automatic Reactor Trip System will be calibrated on at least a refueling frequency (18 months). The calibrations will include a check of trip status light and annunciator actions.

Instrument channel and relay channel inputs will be tested at a monthly frequency. The tests will include a check of the reactor trip setpoint and of the trip status light.

In addition, instrument channel and relay channel input response times will be tested on a one channel per function basis at a refueling frequency.

- b. Automatic Actuation Logic - Combinations of inputs for reactor trip and trip permissive functions for the Automatic Actuation Logic will be tested at a bi-monthly

frequency in accordance with vendor supplied testing equipment and procedures. The testing will include an actual trip test of the reactor trip breaker.

In addition, required combinations of input response times will be tested on a one channel, one logic train basis at a refueling frequency.

- c. Reactor Trip Breakers - Each reactor trip breaker automatic trip function will be tested at a bi-monthly frequency.

A manual reactor trip test will be conducted within seven days prior to each start-up. This test will include a visual verification of breaker position for the reactor trip and bypass breakers and will be actuated from each manual trip switch in the control room.

In addition, the response time of each reactor trip breaker will be tested at a refueling frequency. This test will include actuation with both the undervoltage coil and the shunt coil in service, actuation with only the undervoltage coil in service, and actuation with only the shunt coil in service.

#### Position

- 4.5.2 Plants not currently designed to permit periodic on-line testing shall justify not making modifications to permit such testing. Alternatives to on-line testing proposed by licensees will be considered where special circumstances exist and where the objective of high reliability can be met in another way.



### Response

Beaver Valley Unit 2's present reactor trip system configuration permits the functional testing of the reactor trip breakers during power operation by the automatic trip function which activates the undervoltage trip coil. The present hardware configuration will permit an on-line functional test of the shunt trip coil for the bypass breakers without lifting leads and installing jumpers.

Functionally testing the bypass breakers during power operating is not justified since:

1. The hardware configuration will not permit both bypass breakers to be racked in at the same time.
2. The time that a bypass breaker may be in use is limited by Technical Specifications. Based on Beaver Valley 1 experience, this is anticipated to be less than two hours per month.
3. When a bypass breaker is in service, the automatic reactor trip system will initiate a trip signal to one of the trip breakers which is functionally tested bi-monthly.
4. The bypass breakers will be functionally tested prior to plant startup.

### Position

- 4.5.3 Existing intervals for on-line functional testing required by Technical Specifications shall be reviewed to determine that the intervals are consistent with achieving high reactor trip system availability when accounting for considerations such as:

1. uncertainties in component failure rates
2. uncertainty in common mode failure rates
3. reduced redundancy during testing
4. operator errors during testing
5. component "wear-out" caused by the testing

Licensees currently not performing periodic on-line testing shall determine appropriate test intervals as described above. Changes to existing required intervals for on-line testing as well as the intervals to be determined by licensees currently not performing on-line testing shall be justified by information on the sensitivity of reactor trip system availability to parameters such as the test intervals, component failure rates, and common mode failure rates.

#### Response

The Westinghouse Owners Group on February 3, 1983 (letter OG-86 from J. J. Sheppard to H. Denton), submitted WCAP-10271 to the NRC for review. WCAP-10271, "Evaluation of Surveillance Frequencies and out of Service Times for the Reactor Protection Instrumentation System" documents an evaluation of the impact on RPS unavailability of current and extended surveillance intervals. The WCAP used the hardware configuration of a 4 loop RESAR 3S type plant with solid state combinational logic and the testing frequencies in NUREG-0452, Revision 4. Supplement 1 to the WCAP (transmitted by OG-106, October 4, 1983, from J. J. Sheppard to C. O. Thomas) extends the application of the methodology to 3 loop plants with solid state combinational logic.

The WCAP considers common mode failure, operator error, reduced redundancy during testing and equipment bypass. WCAP-10271 also considers correlative effects on plant operation and safety including the manpower expenditure associated with surveillance, the number of inadvertent trips which occur

during testing and the distraction from plant monitoring on the part of the control room operator and shift supervisor associated with testing. Supplement 1 to WCAP-10271 which was submitted to the NRC in October 1983 is an extension of the evaluation and provides a discussion of component wearout caused by testing. The NRC review of WCAP-10271 to date has resulted in a request for additional information the NRC felt necessary to complete the review. Information submitted in October 1983 to the NRC in response to that request included an overall evaluation of the impact on plant safety of RPS surveillance, a discussion of the uncertainty of failure rates and common mode failure and more detail concerning the impact of surveillance intervals on RPS unavailability. WCAP-10271 provides in a comprehensive form the information requested by item 4.5.3. The conclusion of WCAP-10271 Supplement 1 is that less frequent testing of RPS components is warranted and would result in the maintenance of plant safety and the improvement of equipment reliability.

In addition to the Westinghouse Owners Group program, the NRC has formed a task group to identify the scope, nature and recommend approaches to resolve issues such as testing frequency, outage limits and improper testing. The results of this task group will be used by the appropriate NRC office for resolution of the issues and provide optimized technical specification surveillance requirements.

Periodic surveillance of the reactor trip system will be performed to ensure proper protective action. This surveillance as identified in Section 7.2 of the FSAR, conforms to the requirements of IEEE 338-1977 and Regulation Guide 1.22. The minimum frequency for these checks, calibrations and tests will be defined in Technical Specifications. These intervals will be based on experience in operation of both conventional and nuclear unit systems which represent the industry standard.

SEQUENCE OF EVENTS LOG FOR MONDAY 09-20-82 12:37:39:700 PAGE 1

TIME	POINT ID	DESCRIPTION	STATE
12:37:39:700	1434	MASTER TURBINE TRIP	EHC YES
12:37:40:041	1431	LOW ETS PRESS TRIP	EHC YES
12:37:40:329	1444	GENERATOR BREAKER	BKR NO
12:37:41:587	1431	LOW ETS PRESS TRIP	EHC NO
12:37:43:029	1444	GENERATOR BREAKER	BKR YES
12:37:44:077	1434	MASTER TURBINE TRIP	EHC NO
12:37:44:366	1431	LOW ETS PRESS TRIP	EHC YES
12:37:44:706	1431	LOW ETS PRESS TRIP	EHC NO
12:37:45:755	1434	MASTER TURBINE TRIP	EHC YES
12:37:46:462	1431	LOW ETS PRESS TRIP	EHC YES
12:37:47:537	1434	MASTER TURBINE TRIP	EHC NO

REPORT COMPLETE 09-20-82 MONDAY 12:39:09  
RPT-CMP 12:39:09 LOG 28 SEQUENCE OF EVENTS PRINTOUT COMPLETED

FIGURE 1 - SEQUENCE OF EVENTS LOG

Chapter 13

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES

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DUQUESNE LIGHT COMPANY  
BEAVER VALLEY POWER STATION UNIT NO. 1  
STATION ADMINISTRATIVE PROCEDURES

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

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DUQUESNE LIGHT COMPANY  
BEAVER VALLEY POWER STATION UNIT NO. 1  
STATION ADMINISTRATIVE PROCEDURES

I. PURPOSE

This procedure provides instructions for the administrative controls, preparation, and review of DRAFT INCIDENT REPORTS and CRITIQUES. This procedure is included in the BVPS Unit 1 Administrative Procedures as a management instruction.

II. APPLICABILITY

This procedure applies to all station groups at Beaver Valley Power Station Unit 1 whose personnel may be involved in preparation of DRAFT INCIDENT REPORTS, OR CRITIQUES, or may be involved in an incident or potential incident.

III. DEFINITIONS

- A. Potential Incident - an unplanned event or problem that affects the quality, safety, or controlled performance of reactor or turbine plant functions. This may include testing, maintenance, operations or refueling evolutions. Events which may be Potential Incidents are listed in Appendix A of this chapter.
- B. Critique - A critique is a meeting of involved parties that is initiated as a result of potential incident for the purpose of determining all the facts pertinent to the event.
- C. Incident Report - An incident report is a formalized report of abnormal occurrences and other reportable events as described in BVPS Technical Specifications, Appendix A, Section 5, 6.7, 6.9 and 10 CFR 50.72, 10 CFR 50.73, 10 CFR 20.403 and 10 CFR 73.71.

IV. ORGANIZATION AND RESPONSIBILITY

- A. All Personnel at Beaver Valley Power Station Unit 1 are responsible for:
  - 1. Reporting potential incidents to the Shift Supervisor.
  - 2. Notifying the Cognizant Member of the BVPS Staff of the potential incident.
- B. The Shift Supervisor is responsible to:
  - 1. If the event is deemed a potential incident, and is an Operations Department event, or involves or results in a reactor trip, ensure completion of applicable portions of the Draft Incident Report (Figure 1).

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

2. When a potential incident is reported, but does not involve an operational event, verify that any affected plant system, component or evolution is placed in a safe or stable condition as soon as possible.
  3. When a Draft Incident Report is to be prepared, issue a Draft Incident Report Number.
- C. The Shift Operating Foreman is responsible to aid the Shift Supervisor in collection of data or information regarding potential incidents that involve, or result in reactor trip or operational events.
- D. The Shift Technical Advisor is responsible to review and sign the completed Draft Incident Report when the Draft Incident Report resulted from an operational event.
- E. The Cognizant Member of the BVPS staff shall:
1. When notified of a potential incident that involves subjects within his assigned responsibility, ensure completion of applicable portions of the Draft Incident Report (Figure 1).
  2. Determine the need of convening a critique to examine the potential incident.
  3. Appoint a chairman to conduct the critique when a critique is required.
  4. Review and sign all draft Incident Reports generated by groups within his assigned responsibility.
  5. Cognizant members of the Beaver Valley Power Station are:
    - a. Station Superintendent
    - b. Chief Engineer
    - c. Station Maintenance Supervisor
    - d. Nuclear Station Operating Supervisor
    - e. Instrument and Control Supervisor
    - f. Supervisor of Testing and Plant Performance
    - g. Superintendent of Technical Services
    - h. Radiation Control Supervisor
    - i. Refueling Supervisor
    - j. Reactor Control Chemist
    - k. Nuclear Shift Supervisor
    - l. Director of Administrative Services

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

- F. The Designated Critique Chairman shall conduct the critique in accordance with this chapter.
- G. The Station Superintendent or his designee shall:
1. Review all Draft Incident Reports to verify completion and accuracy.
  2. Determine if events described by Draft Incident Reports are in fact incidents, requiring formal Incident Report preparation.
  3. If the event is a reactor trip, or results in a reactor trip, grant or deny authorization for plant start up.
  4. If the criteria for restart cannot be met he shall direct the Nuclear Station Operating Supervisor to appoint an experienced SRO to conduct an independent evaluation of the event prior to authorizing plant startup.
- H. Nuclear Station Operating Supervisor, when directed by the Station Superintendent is responsible to:
1. Appoint an experienced SRO to perform an Independent Evaluation of the event.
  2. Review the results of the independent evaluation.
  3. Forward recommendations concerning the event to the Station Superintendent.
  4. Review and sign all Draft Incident Reports generated by the Operations Group.
- I. The Independent Evaluator when appointed by the Nuclear Station Operating Supervisor is responsible to:
1. Review the event to verify that automatic safety and control features were activated in the expected time and sequence.
  2. Verify that corrective actions are identified to resolve the cause of the trip or corrective actions are identified to correct any equipment deficiencies noted during the transient.
  3. Submit the results of his evaluation to the Nuclear Station Operating Supervisor.

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)J. The Technical Advisory Engineer is responsible to:

1. Prepare all formal Incident Reports.
2. Maintain a file of all Draft Incident Reports.
3. Verify all Draft Incident Reports initiated are completed, in a timely manner to facilitate compliance with reporting requirements.

V. REFERENCES

- A. BVPS OM Chapter 48, Conduct of Operations.
- B. 10 CFR 50.72, 10 CFR 50.73, 10 CFR 20.403 and 10 CFR 73.71.
- C. BVPS Administrative Procedures, Chapter 4 Plant Operations Group
- D. BVPS Technical Specification, Appendix A, Section 6, Administrative Controls, and Section 3/4.3.2 Engineering Safety Feature Instrumentation.
- E. NUREG 1000, Generic Implications of ATWS Events at the Salem Nuclear Power Plant.

VI. INSTRUCTIONS

- A. All personnel at Beaver Valley Power Station Unit 1 shall notify the Nuclear Shift Supervisor of all potential incidents and will contact the applicable member of the BVPS Staff to advise him of the event. The reporting personnel shall provide the Shift Supervisor with as much information pertinent to the event as possible.
- B. The Shift Supervisor shall, when made aware of a potential incident, ensure that any affected plant system, component or evolution is placed in a safe, or stable condition as soon as possible.

When a safe or stable condition is achieved, the Shift Supervisor shall:

1. If the event is an operational event, or involves or results in a reactor trip, ensure that applicable portions of the Draft Incident Report (Figure 1) are completed. The Shift Supervisor may delegate the responsibility of collecting the data relevant to the event to the Operating Foreman, but the Shift Supervisor must review and sign the completed Draft



PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

Incident Report to verify the following information as a minimum is complete and correct:

- a. Item No. 1. Draft Incident Report Number
  - b. Item No. 2. Date/Time of Event
  - c. Item No. 3. Report Date
  - d. Item No. 4. Reporting Requirement
  - e. Item No. 5. Identification of Event
  - f. Item No. 6. Conditions Prior to Event
  - g. Item No. 7a. Description of Event
  - h. Item No. 7b. Critique Minutes (when a critique is convened)
  - i. Item No. 8. Plant Control and Safeguards Review
  - j. Item No. 10. Analysis of Event
  - k. Copies of Appropriate Strip Chart Recordings and Computer Printouts are Attached.
  - l. Item No. 14. Check for Harsh Environment
2. If the potential incident is not an operational event, provide the individual responsible for completing the Draft Incident Report with the next sequential number from the Draft Incident Report Index and log the event in the Index.
  3. If the potential incident is an operational event, determine the need of convening a critique to examine the potential incident.
  4. Forward the Draft Incident Report to the Nuclear Station Operating Supervisor.
- C. The Operating Foreman shall as directed by the Shift Supervisor collect pertinent data (e.g., strip chart recordings, computer printouts, etc.), and perform the initial analysis of this information to complete the applicable portions of the Draft Incident Report. He shall sign the Draft Incident Report as the preparer, and present the information to the Shift Supervisor for final review.
- D. The Shift Technical Advisor shall:
1. Review and sign completed Draft Incident Report with the Shift Supervisor, and based on this review, make recommendations to the Station Superintendent as to applicability of plant restart.
- E. The Cognizant Member of the BVPS Staff shall:
1. When notified of a Potential Incident within his cognizance, ensure the completion of a Draft Incident

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

reporting requirements) and forward the report to the Station Superintendent.

2. Based on information provided by the individual reporting the event determine the need for convening a critique. This determination shall be made by verifying that sufficient information is available to allow the cause, effect, and corrective actions related to the event to be determined.
3. If a critique is required, he shall act as chairman, or appoint a chairman to conduct the critique.
4. Review and sign the completed Draft Incident Report verifying the following information as a minimum is included and accurate:
  - a. Item 1. Draft Incident Report Number
  - b. Item 2. Date/Time of Event
  - c. Item 3. Report Date
  - d. Item 4. Reporting Requirement
  - e. Item 5. Identification of Event
  - f. Item 7a. Description of Event
  - g. Item 7b. Critique Minutes (when a critique is convened).

F. The Designated Critique Chairman shall:

1. Ensure all individuals involved in the event are properly assembled, including any observer who may be able to contribute to the critique.
2. Ensure that minutes of the meeting are recorded as Step 7.b of the Draft Incident Report. Minutes shall include as a minimum, the information specified on the Draft Incident Report Step 7.b.
3. At conclusion of the critique, the Chairman shall read the minutes to the assembled group for accuracy of contents. In case of a disagreement as to the facts of the event, the person conducting the critique shall contact the cognizant staff member for further instructions prior to disbanding the critique. Each dissenting comment will be inserted into the minutes of the critique and signed by the representative of the station group making the dissenting comment. A critique may be reconvened if required to obtain more or further information. An additional set of minutes shall be written.



PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)

4. The original copy of the Draft Incident Report shall be sent to the Station Superintendent for review.

G. The Station Superintendent shall:

1. Review all Draft Incident Reports.
2. Determine if events described by the Draft Incident Report, are in fact Incidents requiring a formal Incident Report, and indicate this decision on the last page of the Draft Incident Report.

NOTE: The Station Superintendent may elect to base his decision for plant restart on review of the trip conducted by telephone in direct conference with the Shift Supervisor.

3. If the event involves a reactor trip, grant or deny approval to start the plant by the following criteria:
  - a. Appropriate portions of the Draft Incident Report are complete, and present an effective reconstruction and analysis of the event.
  - b. The cause of the event has been properly identified and corrected.
  - c. All equipment and systems are verified to have functioned as designed during the event and recovery actions, or corrective actions required are complete.
4. If the cause of the trip cannot be determined, or there is question concerning the proper performance of equipment or systems during the trip,
  - a. The superintendent shall direct the Nuclear Station Operating Supervisor to appoint an experienced SRO to conduct an independent evaluation of the event prior to the authorizing plant startup.
  - b. Review the results of independent evaluations performed, solicit comments of appropriate group supervisors, and evaluate authorization of plant restart per Step E.3.
5. Forward the completed Draft Incident Report to the Technical Advisory Engineer for Incident Report preparation.

PREPARATION OF DRAFT INCIDENT REPORTS AND CONDUCT OF CRITIQUES (continued)H. Nuclear Station Operating Supervisor shall:

1. When directed by the Station Superintendent appoint an experienced SRO to perform an independent evaluation of the event. He shall review the results of the independent evaluation, and make recommendations to the Station Superintendent concerning the applicability of plant restart.
2. Review and sign all Draft Incident Reports generated by the Operations Group.
3. Forward all Draft Incident Reports to the Station Superintendent.

I. Independent Evaluator when appointed by the Nuclear Station Operating Supervisor shall review the Draft Incident Report, and all available information (this may include interviews with operators etc.) to determine the cause of the event, verify that all automatic safety and control features were activated in the expected time and sequence. He shall verify that corrective actions are identified to resolve the cause of the trip and correct any equipment deficiencies noted during the transient. He shall then submit the results of the review to the Nuclear Station Operating Supervisor.J. The Technical Advisory Engineer shall:

1. Review all draft incident reports, and for those designated by the Station Superintendent as incidents shall prepare an Incident Report based on the Draft Incident Report and Critique Minutes.

## FIGURE 1

DUQUESNE LIGHT COMPANY  
Beaver Valley Power StationDRAFT INCIDENT REPORT

- I.R. NO. \_\_\_\_\_ 1. Draft Incident Report No. \_\_\_\_\_  
(if applicable)
- L.E.R. No. \_\_\_\_\_ 2. Date/Time of Event \_\_\_\_\_  
(if applicable)
4. Reporting Requirement \_\_\_\_\_ 3. Report Date \_\_\_\_\_  
(Immediately, 14 day, 30 day, special, etc.)
5. IDENTIFICATION OF EVENT:
- Tech. Spec. \_\_\_\_\_; App A or B (App. B effective until Jan. 1, 1984)
- LCO Exceeded \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
6. CONDITIONS PRIOR TO EVENT: (Plant mode and significant system status)
- Plant in operational mode ( ) at ( ). Reactor power and  
( ) Gross MW electrical power. The reactor coolant system average  
temperature ( ) and RCS pressure ( ). RCS level in  
pressurizer ( ) or the RCS drained to ( ).

The following tests were in progress:

OST's —  
MSP's  
PMP's  
BVT's

Additional System Status:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DRAFT INCIDENT REPORT (continued)

- 7a. DESCRIPTION OF EVENT: (sequence of events leading up to, during, and after incident including method and time of detection, protective system actions and operator actions to control). (Include any pertinent charts, SER and Alarm typewriter xerox copies.)

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)7b. Critique Minutes (when applicable)

DATE/TIME OF CRITIQUE \_\_\_\_\_

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ATTENDANCE:

NAME	TITLE	STATION GROUP
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Provide a detailed chronological description of the event. If this agrees with step 7a., the information need not be repeated.  
(continued)

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## DRAFT INCIDENT REPORT (continued)

Provide a detailed chronological description of the event. If this agrees with Step 7.a., the information need not be repeated.

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## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)8. Plant Control and Safeguards Function Review:

- a. Did a Steam Generator, Pressurizer, or Power Operated Relief Valve lift during this transient. YES \_\_\_\_\_ NO \_\_\_\_\_

If YES, list the valves that lifted.

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- b. Did the event result in a reactor trip or safety injection?

YES \_\_\_\_\_ NO \_\_\_\_\_

If Yes, steps 8.b through 8.g shall be completed.

If No, mark steps 8.b through 8.9 N/A and continue Draft Incident Report step 9.

- c. Was the reactor trip automatic? YES \_\_\_\_\_ NO \_\_\_\_\_

If No, describe the method of trip, and why the trip was initiated.  
If Yes, list the FIRST OUT annunciator, and subsequent reactor trip signals received.

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## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)

- d. Was Safety Injection initiated? YES \_\_\_\_\_ NO \_\_\_\_\_  
If SI was initiated, was it automatic? YES \_\_\_\_\_ NO \_\_\_\_\_

If NO, explain why SI was initiated. If Yes, identify the initiating signal.

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- e. Does the First Out Annunciator agree with the Sequence of Events and the P250 computer printout? YES \_\_\_\_\_ NO \_\_\_\_\_

If NO, explain which First Out Annunciator was received and apparent reasons for the discrepancy. (e.g. Two alarm conditions actuated simultaneously.)

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(Attach copies of printouts that include data five minutes prior to the trip.)

## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)

- f. Do any strip chart recordings indicate trends which may have contributed to the event? Complete the "Post-Trip Expected Values" table included on Figure 2.

YES \_\_\_\_\_ NO \_\_\_\_\_

If Yes, explain.

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(Attach copies of pertinent strip charts. As a minimum include strip charts for Pressurizer Press., Pressurizer Level, Tave, Steam Pressure, Steam Generator Levels, Feedwater Flow and Steam Flow.)

- g. Were there any pertinent alarms that annunciated which were unusual for this event? YES \_\_\_\_\_ NO \_\_\_\_\_

If Yes, explain.

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- h. Were all control and safeguard functions actuated at proper setpoints. YES \_\_\_\_\_ NO \_\_\_\_\_

Record control and safeguard component actuation on Figure 2. Compare actual times to expected values to determine answer to the above questions.

If No, explain.

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## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)

## 9. DESIGNATION OF APPARENT CAUSE OF EVENT:

Design \_\_\_\_\_, Material \_\_\_\_\_, Personnel \_\_\_\_\_, Procedure \_\_\_\_\_.

Provide detail.

Component Mark No.:

Manufacturer:

## 10. ANALYSIS OF EVENT: (safety implications, effects and consequences, injuries, system damage, exposures, activity released (gas or liquid)).

References:

Technical Manual No.

Drawing - Elementary

Operating Manual No.

Wiring

Piping

Others

DRAFT INCIDENT REPORT (continued)

a. Immediate (to immediately prevent repetition - not to control event; i.e., Procedure Changes, lift load, lock valves, etc.).

This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.[illegible]



## FIGURE 1 (continued)

DRAFT INCIDENT REPORT (continued)

13. FAILURE DATA: (if applicable - Previous equipment failure and identification or equipment). This information can be obtained from the Tech. Advisor file.

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14. Was any equipment exposed to the effects of any harsh environmental conditions which resulted from this event. If yes, list equipment affected, and corrective actions required.

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Prepared By: \_\_\_\_\_ DATE: \_\_\_\_\_

Shift Supervisor: \_\_\_\_\_ DATE: \_\_\_\_\_  
(When Required)

Shift Technical Advisor: \_\_\_\_\_ DATE: \_\_\_\_\_  
(When Required)

Independent Evaluation: \_\_\_\_\_ DATE: \_\_\_\_\_  
(When Performed)

Cognizant BVPS Staff Member  
(eg. Nuclear Station  
Operating Supervisor etc.) \_\_\_\_\_ DATE: \_\_\_\_\_

Potential Incidents : Declared Incident YES \_\_\_\_\_ NO \_\_\_\_\_

Approval for plant startup: Granted \_\_\_\_\_

\_\_\_\_\_  
Superintendent DATE: \_\_\_\_\_



FIGURE 2

Control and Safety Function Actuation Analysis

The listed alarms are control and safety functions that should be checked for reactor trip or safety injection. These alarms are not necessarily listed in the order which they will occur, nor will all of the alarms occur with every event.

To analyze a function appropriate to the event, the time elapsed from the initiating signal to the desired safety or control function should be determined and recorded. This actual time should then be compared to the maximum expected time to verify acceptable actuation time of the component or device. If actual time exceeds expected time, further testing and evaluation is required.

Functions that are not appropriate for the event should be recorded as being NOT APPLICABLE.

SEN Printout Of Control Or Safety Function	Address	Time Of SEN Alarm	Time of Initiating Signal, Address and Time	T.S Limit (sec)	Max Expected Time (sec)**	Actual Time To Initiate
Turbine Trip Due to Reactor Trip	7AB			.167*	.100	
S/G Aux Feed Pump (FW-P-1A)	1256			40	15.0	
S/G Aux Feed Pump (FW-P-1B)	1257			40	15.0	
SI Pump 1A (Low Head)	1201			(1) (2) (3) 13.0/23.0/27.0	5.0	
SI Pump 1B (Low Head)	1202			(1) (2) (3) 13.0/23.0/27.0	5.0	
Charging Pump 1A	1220			(1) (2) 13.0/23.0	3.0	
Charging Pump 1B	1221			(1) (2) 13.0/23.0	3.0	
Charging Pump 1C PPIC BRK1	1222			(1) (2) 13.0/23.0	3.5	
Charging Pump 1C PPIC BRK2	1223			(1) (2) 13.0/23.0	3.5	
Generator Trip (NCR 321 or 341)	1267- 1268			N/A	30 ± 1	
FW Isol. Signal	0604			75/78 (1)	Verify Occurance	
Auto Bus Transfer	1280- 1288			N/A	30 ± 1	

\*Westinghouse Switchgear Specification G 676586 Reactor Trip Technical Manual

\*\*Max Expected Times are based on past operating experience and data collected from surveillance tests.

- (1) Diesel generator starting and sequence loading delays not included. Offsite power available. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps.
- (2) Diesel generator starting and sequence loading delays included. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps.
- (1) Diesel generator starting and sequence loading delays included. Response time limit includes opening of valves to establish SI path and attainment of discharge pressure for centrifugal charging pumps Low Head Safety Injection pumps.
- (1) FWI, 78 sec. for S/G Water Level HI-HI.

FIGURE 2 (continued)

P250 Alarms	Address	Expected Time to initiate Cycles	Actual Time to initiate Cycles
Reac Main Tr Bkr A	Y0006D	10*	
Reac Main Tr Bkr B	Y0007D	10*	
Reac Aux Tr Bkr A	Y0026D	10*	
Reac Aux Tr Bkr B	Y0027D	10*	

\*Westinghouse Switchgear Specification G 676586 Reactor Trip

To convert cycles to seconds:      Seconds = Cycles x .017

#### Post-Trip Expected Values

Parameter	Expected Minimum Value	Actual Minimum Value	Expected Maximum Value	Actual Maximum Value
Tavg	543 F		549 F	
Press. Level	18%		24%	
Press. Press.	1950 psi		2260 psi	
S/G Level*				
A	28%		38%	
B	28%		38%	
C	28%		38%	

\*Following post trip Auxiliary Feedwater recovery with Main Feedwater bypass valve control

## APPENDIX A

Typical events which may require a draft incident report include, but are not necessarily limited to the following:

1. Reportable Occurrences as listed in Appendix A to BVPS Technical Specification, Section 6.
2. Significant events requiring prompt notification to the NRC as listed in BVPS Administrative Procedures, Chapter 4, Part U.
3. Automatic or manual protective functions:
  - a. Unplanned reactor protective system action which results in a manual or automatic reactor trip, or unlatching of a rod control cluster assembly which was not specified in an approved test, operating procedure or drill.
  - b. Safety Injection
  - c. Misoperation, malfunction or unplanned actuation of any significant plant safety device(s).
4. Equipment and material problems:
  - a. Damage to major plant components and equipment, including ESF and refueling equipment.
  - b. Introduction of foreign objects into the reactor coolant or related piping systems.
  - c. Major fabrication or assembly errors such as the use of improper welding electrodes, improper material properties or wrong size materials.
  - d. Significant failure or degradation which requires repair or replacement of safety-related equipment.
  - e. Trends which indicate deterioration in the quality of safety-related equipment.
  - f. Any other conditions adverse to the quality of safety-related equipment which are discovered while reviewing logs and surveillance test sheets or while making inspection tours of station or site.
  - g. Failure or damage to safety-related equipment not covered above if the time for repair is likely to exceed the time allowed by the technical specifications.
  - h. Continual rejection of materials or equipment received from vendors, or similar defects.

APPENDIX A (continued)

- i. Fires which could affect reactor or turbine plant equipment, or flooding or splashing of electrical equipment.
  - j. Oil or chemical spill that affects or threatens to affect the environment beyond the site boundaries.
  - k. An event that causes property damage to the plant in excess of \$2,000, exclusive of labor costs or costs of purchased power.
5. Personnel or procedure problems:
- a. Failure of equipment caused by operator error or inadequate or improper operating procedures.
  - b. Operating error causing actuation of safety devices, or significant damage or potential damage to equipment or systems.
  - c. Degradation of coolant system conditions, system status, or testing control whether or not any degradation results in damage to equipment or exceeding limiting conditions for operations. Minor perturbations on plant conditions during operation may not necessarily require a critique or incident report.
  - d. Significant problems caused by inaccurate information in approved plans, procedures, or component technical manuals.
  - e. Significant deviations from approved procedures, plans or instructions which affect the operation of the plant, test program, or quality of refueling work.
  - f. Improper operation during disassembly or installation and operations which could or did result in malfunctioning or damaged reactor plant or refueling equipment.
  - g. Loss of refueling control because of communications failure, inadequate or improper procedure signoff requirements, prerequisites or sequencing.
  - h. Establishment of trends that indicate inadequate personnel training, incomplete or inadequate procedures or questionable material properties.
  - i. Serious personnel injuries or hazards resulting from work on plant systems or components.
6. Radiation Control Problems:
- a. Spread of radioactive contamination outside a controlled area in excess of limits, or personnel exposure to airborne radioactivity above limits without proper respiratory equipment.



APPENDIX A (continued)

- b. External radiation dose in excess of BVPS quarterly/annual administrative guidance levels or 10CFR Parts 20 limits.
- c. Contamination with radioactive material of skin of personnel where a dose assessment may be necessary.
- d. Internally deposited radioactivity greater than 10 nanocuries.
- e. Entry into a controlled area without proper dosimetry, except as delineated in BVPS Radiation Control Manual.
- f. Improper control of radiation areas.
- g. Spill or radioactive material which results in contamination which causes work to be stopped for more than four (4) hours, or, if unexpected, requires more than four (4) hours to decontaminate to acceptable contamination levels.
- h. Monitored release to the environment in excess of MPC limits for an isotopic mix in a liquid release, or in excess of E.T.S. for a gaseous release.
- i. Any unplanned or unmonitored liquid or gaseous radioactive release to the environment via an unmonitored path; or any unplanned release via a monitored path.
- j. Unauthorized disposal of solid radioactive waste.
- k. Unexplained automatic termination of radioactive discharge.
- l. Automatic diversion of ventilation systems to the main charcoal filter banks.
- m. Significant radiological event offsite occurring during transport of material for which the licensee was either shipper or intended receiver.
- n. Lost radioactive material in excess of 10CFR20 Appendix C values.

## 7. Security Violations:

For both an obvious or a suspected security violation a Draft Incident Report should be completed. Because security matters are confidential, the security department incident and (significant) Licensee Event Report will be handled per appropriate procedures but the Draft Incident Report should be used.

1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CNG	INVS	RLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR
C	#	#	#	#	CONT	CONT	CON	#	CONT	CONT	#	#	TIME
#	#	#	#	#	OPEN	CLOS	STAT	#	PT. NO.	STAT	#	#	#
0	#0	#1	#2	#5	#1	#2	#3	#3	#4	#5	#6	#6	#7
1	#4	#7	#2	#5	#7	#4	#1	#8	#3	#6	#1	#6	#1
#IDEN	#P	#DESC	#SIT	#SOS	#SOS	#ALDD	#ALPR	#ACID	#ACCD	#RPTD	#INVD	#RLTH	#RLTH
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

"Y28440	"STSE"	EXC	RUNDR TO HALF LOAD	AFHLX	"AFHLX	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35080	"STSE"	HCC	2-E07 FDR ACB OC	52-EJSAC	"BA-EJSAC	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35090	"STSE"	HCC	2-E09 FDR ACB OC	52-EJSAD	"BA-EJSAD	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35100	"STSE"	HCC	2-E11 FDR ACB OC	52-EJSAE	"BA-EJSAE	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35110	"STSE"	HCC	2-E13 FDR ACB OC	52-EJSAF	"BA-EJSAF	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35070	"STSE"	HCC	2-E05 FDR ACB OC	52-EJSAH	"BA-EJSAH	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35050	"STSE"	HCC	2-E01 FDR ACB OC	52-EJSAJ	"BA-EJSAJ	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35060	"STSE"	HCC	2-E03 FDR ACB OC	52-EJSAK	"BA-EJSAK	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35140	"STSE"	HCC	2-E06 FDR ACB OC	52-EJSBC	"BA-EJSBC	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35120	"STSE"	HCC	2-E02 FDR ACB OC	52-EJSBD	"BA-EJSBD	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35130	"STSE"	HCC	2-E04 FDR ACB OC	52-EJSBF	"BA-EJSBF	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35150	"STSE"	HCC	2-E08 FDR ACB OC	52-EJSEB	"BA-EJSEB	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35160	"STSE"	HCC	2-E10 FDR ACB OC	52-EJSBH	"BA-EJSBH	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35170	"STSE"	HCC	2-E12 FDR ACB OC	52-EJSBJ	"BA-EJSBJ	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"Y35180	"STSE"	HCC	2-E14 FDR ACB OC	52-EJSBK	"BA-EJSBK	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	" NO"
"V28310	"STSE"	DC	PHL DC2-01 CONT PHR	BKR SH	"BKR SH	"LOSS	"NORM	"	ZERO	1"	1"OFF	"ON	" NO"
"V28320	"STSE"	USS	TFMR 2C PT FUSE	BKR SH	"BKR SH	"NORM	"NORM	"	ONE	3"	1"OFF	"ON	" NO"
"V28330	"STSE"	DC	PHL DC2-03 CONT PHR	BKR SH	"BKR SH	"LOSS	"NORM	"	ZERO	1"	1"OFF	"ON	" NO"



1				2											
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*CON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR		
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME			
	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*			
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7		
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1		
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH		
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	"V2834D	"STSE"	DC PNL DC2-04 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2835D	"STSE"	DC PNL DC2-05 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2836D	"STSE"	DC PNL DC2-06 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2837D	"STSE"	DC PNL DC2-07 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2838D	"STSE"	DC PNL DC2-08 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2839D	"STSE"	DC PNL DC2-09 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ONE"	1"	1"	OFF	"ON	"	NO"
	"V2892D	"STSE"	125VDC SHED 2-5 BKR	BKR-SH "BKR SH	""	NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"V2893D	"STSE"	125VDC SHED 2-6 BKR	BKR-SH "BKR SH	""	NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"V2896D	"STSE"	DC PNL DC2-10 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"V2897D	"STSE"	DC PNL DC2-11 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
C8	"V2957D	"STSE"	DC PNL DC2-14 CONT PHR	BKR SH "BKR SH	""	LOSS	"NORM	"	ZERO"	1"	1"	OFF	"ON	"	NO"
	"Y0423D	"STSE"	SG AUX FM PP23A START	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0424D	"STSE"	SG AUX FM PP23B START	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0437D	"STSE"	STH GEN FD PP21A	BKR SH "BKR SH	""	RUN	"TRIP	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0438D	"STSE"	STH GEN FD PP21B	BKR SH "BKR SH	""	RUN	"TRIP	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0550D	"STSE"	PRI CC PPA START-STOP	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0551D	"STSE"	PRI CC PPB START-STOP	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0552D	"STSE"	PRI CC PPC(O) START-STOP	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0553D	"STSE"	PRI CC PPC(P) START-STOP	BKR SH "BKR SH	""	NORM	"AUTO	"	ONE"	3"	1"	OFF	"ON	"	NO"
	"Y0602D	"STSE"	RHR PP A AUTO	BKR SH "BKR SH	""	NORM	"STOP	"	ONE"	1"	1"	OFF	"ON	"	NO"

1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*	*TIME
	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"Y0603D	"STSE"	RHR	PP B AUTO	BKR SH "BKR SH	"NORM	"STOP	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0651D	"STSE"	RECIRC	SPR PP A ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0655D	"STSE"	RECIRC	SPR PP B ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0656D	"STSE"	RECIRC	SPR PP C ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0657D	"STSE"	RECIRC	SPR PP D ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0922D	"STSE"	LOH	HEAD SI PP A ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y0923D	"STSE"	LOH	HEAD SI PP B ST/SP	BKR SH "BKR SH	"NORM	"AUTO	"	ONE"	1"	1"OFF	"ON	"	NO"
"Y2002D	"STSE"	HIOIS	SEP DN RCVR PP A	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2003D	"STSE"	HIOIS	SEP DN RCVR PP B	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2936D	"STSE"	BUS	2AE ACB2A10 AUTO	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2937D	"STSE"	BUS	2AE ACB2E7 AUTO	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2939D	"STSE"	2-BH	FDR BKR	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2951D	"STSE"	4KV	SUB 2-9P SUP BKR FDR	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2952D	"STSE"	DG	2-1 ACB 2E10 AUTO	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2977D	"STSE"	DG	2-2 ACB 2F10 AUTO	BKR SH "BKR SH	"NORM	"CL/TR	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3045D	"STSE"	480V	BUS 2A SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3046D	"STSE"	480V	BUS 2B SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3047D	"STSE"	480V	BUS 2C SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3048D	"STSE"	480V	BUS 2D SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3049D	"STSE"	480V	BUS 2E SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"

1					2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*RLY	
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT		*CUT	*STAT*SPEC*CONR		
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT		*CONT*	*TIME		
	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.		*STAT*	*TIME		
0	*0	*1	*2	*5	**1	*2	*3	*3	*4		*5	*6	*7	
1	*4	*7	*2	*5	**7	*4	*1	*8	*3		*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALGD	*ALPR	*ACID		*ACSD	*RPTD	*INVD	*RLT.I
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	"Y3050D	"STSE"	400V BUS 2F SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y3051D	"STSE"	400V BUS 2G SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y3052D	"STSE"	400V BUS 2H SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y3055D	"STSE"	400V EHER BUS 2P SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y3093D	"STSE"	AUX BLDG ACU211A AUTO	BKR SH "BKR SH	"NORM	"STOP	"	ONE"	2"		1"OFF	"ON	"	NO"
	"Y3094D	"STSE"	AUX BLDG ACU211B AUTO	BKR SH "BKR SH	"NORM	"STOP	"	ONE"	2"		1"OFF	"ON	"	NO"
	"Y6405D	"STSE"	HTR DRAIN RCVR PP21A	BKR SH "BKR SH	"NORM	"STOP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y6406D	"STSE"	HTR DRAIN RCVR PP21B	BKR SH "BKR SH	"NORM	"STOP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y6631D	"STSE"	400V BUS 2J SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y6632D	"STSE"	400V BUS 2K SUP ACB	BKR SH "BKR SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"V2890D	"STSE"	125VDC SHDD 2-1 BKR	BKR-SH "BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"V2891D	"STSE"	125VDC SHDD 2-2 BKR	BKR-SH "BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"V2947D	"STSE"	DC PNL DC2-12 CONT PHR	BKR-SH "BKR-SH	"LOSS	"NORM	"	ZERO"	1"		1"OFF	"ON	"	NO"
	"V2948D	"STSE"	DC PNL DC2-13 CONT PHR	BKR-SH "BKR-SH	"LOSS	"NORM	"	ZERO"	1"		1"OFF	"ON	"	NO"
	"Y2944D	"STSE"	4KV-400 SUB 2-1/2-3 FOR BKR SH	"BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y2945D	"STSE"	4KV-400 SUB 2-2/2-4 FOR BKR SH	"BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y2946D	"STSE"	4KV-400 SUB 2-3/2-1 FOR BKR SH	"BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y2947D	"STSE"	4KV-400 SUB 2-4/2-2 FOR BKR SH	"BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y2948D	"STSE"	BUS 20F ACB 2010 AUTO	BKR SH "BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
	"Y2949D	"STSE"	BUS 20F ACB 2F7 AUTO	BKR SH "BKR-SH	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"

1				2							
T #POINT / #NO. C *	#PT *TYPE*	#DESCRIPTION *	#INSTRUMENT *TAG NO. *	** **DEV **STAT **CONT **OPEN	#DEV *STAT *CONT *CLSD	#ALRM *ON *CON *STAT	#CRT *NO. *CUT *CONT *PT.NO.	#ALRM *CUT *STAT *SPEC	#CHG *CHG *INVS *PLY	#RPLY *CORR *TIME	
0 #0 1 #4 #IDEN	*1 *2 *P	*2 *2 #DESC	*5 *5 #SIT	**2 **7 **ZSDS	*2 *4 *OSDS	*3 *1 *ALDG	*3 *4 *ALPR	*4 *3 *ACID	*5 *6 *ACSD	*6 *7 *RPTD	
*****											
"Y3205D	"STSE"	CONDENSER AVAILABLE	CAX "CAX	"NOT	"SET	"	ONE" 2"	1"OFF "ON	"	NO"	
"V2883D	"STSE"	BAT 2-5 CHARGER	CHG2-5 "CHG 2-5	"NORM	"TRBL	"	ONE" 3"	1"OFF "ON	"	NO"	
"V2885D	"STSE"	BAT 2-6 CHARGER	CHG2-6 "CHG 2-6	"NORM	"TRBL	"	ONE" 3"	1"OFF "ON	"	NO"	
"Y0920D	"STSE"	SI MANUAL ACT 1 CAUS RX CONT SH	"CONT SH	"NORM	"OPER	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y0921D	"STSE"	SI MANUAL ACT 2 CAUS RX CONT SH	"CONT SH	"NORM	"OPER	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y0005D	"STSE"	RX MAN TR 2 CAUSE RX	CS2-RT "CS 2-RT	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y0004D	"STSE"	RX MAN TR 1 CAUSE RX	CS2-RTC "CS 2-RTC	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y2025D	"STSE"	TURBINE THRUST BEARING	ET CAB "E TRIP CAB	"NORM	"HEAR	"	ONE" 3"	1"OFF "ON	"	NO"	
"Y2040D	"STSE"	CNDS VAC LOW	ET CAB "E TRIP CAB	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y2041D	"STSE"	TURB THRUST BRG FAILURE	ET CAB "E TRIP CAB	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y2042D	"STSE"	TURB OVERSPEED	ET CAB "E TRIP CAB	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y2018D	"STSE"	TURB OVSP PROT CONT	EHC "EHC	"NORM	"OPER	"	ONE" 3"	1"OFF "ON	"	NO"	
"Y2046D	"STSE"	TURB EH DC POWER FAIL	EHC "EHC	"NORM	"TRIP	"	ONE" 2"	1"OFF "ON	"	NO"	
"Y3153D	"STSE"	HP TURB/GLD STM A FIRE	EHR-Z1 "EHR-Z1	"NORM	"ALRM	"	ONE" 1"	1"OFF "ON	"	NO"	
"Y0169D	"STSE"	TURB BRNG AREA LP END	EHR-Z2 "EHR-Z2	"NORM	"FIRE	"	ONE" 1"	1"OFF "ON	"	NO"	
"Y0170D	"STSE"	TURB GEN BRG LP END	EHR-Z3 "EHR-Z3	"NORM	"FIRE	"	ONE" 1"	1"OFF "ON	"	NO"	
"Y3154D	"STSE"	GEN EXC ENCLOSURE FIRE	EHR-Z4 "EHR-Z4	"NORM	"ALRM	"	ONE" 1"	1"OFF "ON	"	NO"	
"Y2841D	"STSE"	VOLT REG FIRE CKT 1 FUSEXC	"EXCITER	"NORM	"BLIN	"	ONE" 3"	1"OFF "ON	"	NO"	
"Y2842D	"STSE"	VOLT REG FIRE CKT 2 FUSEXC	"EXCITER	"NORM	"BLIN	"	ONE" 3"	1"OFF "ON	"	NO"	
"Y2851D	"STSE"	IBI LEADS BLOWER A	GL-FH21A"GL-FH-21A	"NORM	"TRIP	"	ONE" 3"	1"OFF "ON	"	NO"	

1					2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CIG	INVS	RLY	
/	NO.	TYPE		TAG NO.	STAT	STAT	CH	NO.	CUT	CUT	STAT	SPEC	CORR	
C	*	*	*	*	CONT	CONT	CON	*	CONT	CON	*	TIME		
					OPEN	CLSD	STAT	*	PT.NO.	STAT	*	*	*	
0	*0	*1	*2	*5	*1	*2	*3	*3	*4	*5	*6	*6	*7	
1	*4	*7	*2	*5	*7	*4	*1	*8	*3	*6	*1	*6	*1	
	IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH	
	CCCCCCCCCCCC	CCCC	CC	CCCCCCCCCCCCCCCCCCCC	CCCCCCCC	CCCCCC	CCCC	CCCC	CCCC	CCCC	CCCC	CCCC	CCCC	
"Y2852D	"STSE"	IN	LEADS BLOWER B	GL-FN21B"	GL-FN-21B	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF "ON " NO"	
"T0498D	"STSE"	RCL	OVERTEMP DT CAUS RX K0101	"K0101	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"T0499D	"STSE"	RCL	OVERPWR DT CAUS RX K0102	"K0102	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"V0324D	"STSE"	RCP	BUS UNVOLT CAUS RX K0103	"K0103	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"F0403D	"STSE"	RCL	LO F ABV P8 CAUS RX K0104	"K0104	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"F0423D	"STSE"	RCL	LO F ABV P7 CAUS RX K0105	"K0105	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"Y0401D	"STSE"	SG	A LO L & FN F CAUS K0106	"K0106	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"Y0421D	"STSE"	SG	B LO L & FHF CAUS RX K0107	"K0107	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"Y0441D	"STSE"	SG	C LO L & FHF CAUS RX K0108	"K0108	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
C8"Y0390D	"STSE"	RX	TRIP DUE TO TURB TRIPK0110	"K0110	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"H0036D	"STSE"	SOURCE	RNG HI Q CAUS RX K0111	"K0111	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"H0024D	"STSE"	INT	RNG HI Q CAUS RX K0112	"K0112	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
C1"Y0010D	"STSE"	PWR	RNG CH LO Q CAUS RX K0113	"K0113	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"H0005D	"STSE"	PWR	RNG CH HI Q CAUS RX K0114	"K0114	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"Y0490D	"STSE"	FRZR	LO SI CAUS RX K0201	"K0201	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"P0480D	"STSE"	PRZR	LO P CAUSE RX K0202	"K0202	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"P0483D	"STSE"	PRZR	HI P CAUS RX K0203	"K0203	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"L0483D	"STSE"	PRZR	HI L CAUS RX K0204	"K0204	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		
"P1003D	"STSE"	CIRIT	PRESS SI CAUS RX K0205	"K0205	"	"NORM	"HIGH	"	ONE"	2"	1"	OFF "ON " NO"		
"P0407D	"STSE"	STLN	1 LOP SI CAUS RX K0206	"K0206	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"		



1				2							
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT*INVS*RLY
C	*	*		*	**CONT	*CONT	*CON	*	*CONT	*CONT*	*SPEC*CORR
*	*	*		*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT*	*TIME
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD*INVD*RLTH
*****											
	"P0427D	"STSE"	"STLN 2 LOP SI CAUS RX	K0207	"K0207	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"P0447D	"STSE"	"STLN 3 LOP SI CAUS RX	K0208	"K0208	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"L0406D	"STSE"	"SG A LO LO L CAUS RX	K0210	"K0210	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"L0426D	"STSE"	"SG B LO LO L CAUS RX	K0211	"K0211	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"L0446D	"STSE"	"SG C LO LO L CAUS RX	K0212	"K0212	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"Y0324D	"STSE"	"RCP BUS UN FREQ CAUS RX	K0301	"K0301	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"L0407D	"STSE"	"STH GEN A L (TURB TRIP)	K0302	"K0302	""NORM	"HIHI	"	ONE"	2"	1"OFF "ON " NO"
	"L0427D	"STSE"	"SG B L (TURB TRIP)	K0303	"K0303	""NORM	"HIHI	"	ONE"	2"	1"OFF "ON " NO"
	"L0449D	"STSE"	"SG C L (TURB TRIP)	K0304	"K0304	""NORM	"HIHI	"	ONE"	2"	1"OFF "ON " NO"
	"N0029D	"STSE"	"PHR RING CH HI Q RX CAUSE	K0306	"K0306	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"N0025D	"STSE"	"PHR RING CH 1 HI Q PT RX	K0307	"K0307	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"N0026D	"STSE"	"PHR RING CH 2 HI Q PT RX	K0308	"K0308	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"N0027D	"STSE"	"PHR RING CH 3 HI Q PT RX	K0309	"K0309	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"N0028D	"STSE"	"PHR RING CH 4 HI Q PT RX	K0310	"K0310	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"
	"V0320D	"STSE"	"RCPA BUS UNVOLT PART RX	K0401	"K0401	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"
	"V0321D	"STSE"	"RCPB BUS UNVOLT PART RX	K0402	"K0402	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"
	"V0322D	"STSE"	"RCPB BUS UNVOLT PART RX	K0403	"K0403	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"
	"Y0320D	"STSE"	"RCPA BUS UNDER FREQ	K0405	"K0405	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"
	"Y0321D	"STSE"	"RCPB BUS UNDER FREQ	K0406	"K0406	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"
	"Y0322D	"STSE"	"RCPB BUS UNDER FREQ	K0407	"K0407	""NORM	"TRIP	"	ONE"	1"	1"OFF "ON " NO"



1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR
C	*	*	*	*	COIT	COIT	CON	*	COMT	CCMT	*	TIME	
0	*0	*1	*2	*5	OPEN	CLSD	STAT	*	PT.NO.	STAT	*	*	
1	*4	*7	*2	*5	*1	*2	*3	*3	*4	*5	*6	*6	*7
	IDEN	*P	DESC	SIT	*7	*4	*1	*0	*3	*6	*1	*6	*1
	*****				ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH
	*****				*****	*****	*****	*****	*****	*****	*****	*****	*****
	"N0001D	"STSE"	PIR RING CH 1 HI Q PT RX K0409	"K0409	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"N0002D	"STSE"	PIR RING CH 2 HI Q PT RX K0410	"K0410	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"N0003D	"STSE"	PIR RING CH 3 HI Q PT RX K0411	"K0411	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"N0004D	"STSE"	PIR RING CH 4 HI Q PT RX K0412	"K0412	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"L0480D	"STSE"	PRZR HI L 1 PART RX K0501	"K0501	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"L0481D	"STSE"	PRZR HI L 2 PART RX K0502	"K0502	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"L0482D	"STSE"	PRZR HI L 3 PART RX K0503	"K0503	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0484D	"STSE"	PRZR LO P 1 PART RX K0504	"K0504	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0485D	"STSE"	PRZR LO P 2 PART RX K0505	"K0505	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0486D	"STSE"	PRZR LO P 3 PART RX K0506	"K0506	"NCRH	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0480D	"STSE"	PRZR HI P 1 PART RX K0508	"K0508	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0481D	"STSE"	PRZR HI P 2 PART RX K0509	"K0509	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0482D	"STSE"	PRZR HI P 3 PART RX K0510	"K0510	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P1002D	"STSE"	CNIT PRESS 3 SI PART RX K0512	"K0512	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P1001D	"STSE"	CNIT PRESS 2 SI PART RX K0513	"K0513	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P1000D	"STSE"	CNIT PRESS 1 SI PART RX K0514	"K0514	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P2847D	"STSE"	CNIT P H1-2 CHN 2(SLI) K0601	"K0601	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P2843D	"STSE"	CNIT P H1-2 CHN 3(SLI) K0602	"K0602	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P2844D	"STSE"	CNIT P H1-2 CHN 4(SLI) K0603	"K0603	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"P2845D	"STSE"	CNIT PRESS CHN 1 K0604	"K0604	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"

1				2									
T *POINT / *NO.	*PT *TYPE	*DESCRIPTION	*INSTRUMENT *TAG NO.	** **	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
C *	*	*	*	**	*STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CCPR
*	*	*	*	**	*CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME	
0 *0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7	
1 *4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1	
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH	
*****													
"P2046D	"STSE"	CHNIT PRESS CHN 2	K0605	"K0605	""NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
"P2047D	"STSE"	CHNIT PRESS CHN 3	K0606	"K0606	""NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
"P2048D	"STSE"	CHNIT PRESS CHN 4	K0607	"K0607	""NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
"P0404D	"STSE"	SGA LO STH P 2 PART RX	K0608	"K0608	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0405D	"STSE"	SGA LO STH P 3 PART RX	K0609	"K0609	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0406D	"STSE"	SGA LO STH P 4 PART RX	K0610	"K0610	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0434D	"STSE"	SG A CHN 2 P RATE CHNG	K0611	"K0611	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0435D	"STSE"	SG A CHN 3 P RATE CHNG	K0612	"K0612	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0436D	"STSE"	SG A CHN 4 P RATE CHNG	K0613	"K0613	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0424D	"STSE"	SGA LO STH P2 SI PART RX	K0701	"K0701	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0425D	"STSE"	SGB LO STH P3 SI PART RX	K0702	"K0702	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0426D	"STSE"	SGB LO STH P4 SI PART RX	K0703	"K0703	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0438D	"STSE"	SG B CHN 2 P RATE CHNG	K0704	"K0704	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0439D	"STSE"	SG B CHN 3 P RATE CHNG	K0705	"K0705	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0440D	"STSE"	SG B CHN 4 P RATE CHNG	K0706	"K0706	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0444D	"STSE"	SGC LO STH P 2 PART RX	K0707	"K0707	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0445D	"STSE"	SGC LO STH P 3 PART RX	K0708	"K0708	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0446D	"STSE"	SGC LO STH P 4 PART RX	K0709	"K0709	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0461D	"STSE"	SG C CHN 2 P RATE CHNG	K0710	"K0710	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P0462D	"STSE"	SG C CHN 3 P RATE CHNG	K0711	"K0711	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"

1				2										
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**DEV	*DEV	*ALR:I	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**	*STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*		*	**	*CONT	*CONT	*CON	*	*CONT	*CONT	*	*	*TIME
	*	*		*	**	*OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
0	*0	*1	*2	*5	**	*1	*2	*3	*4		*5	*6	*6	*7
1	*4	*7	*2	*5	**	*7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**	*ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*IIVD	*RLTH
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"P0463D	"STSE"	SG C CHN 4 P RATE CHNG	K0712	"K0712	"	"NORM	"HIGH	"	ONE"	3"	1"	OFF	"ON	" NO"
"P0396D	"STSE"	TURB OIL LO P 1 PART RX	K0805	"K0805	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	" NO"
"P0397D	"STSE"	TURB OIL LO P 2 PART RX	K0806	"K0806	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	" NO"
"P0398D	"STSE"	TURB OIL LO P 3 PART RX	K0807	"K0807	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	" NO"
"F0409D	"STSE"	CONT RH CHLORINE DET 1	K0808	"K0808	"	"NORM	"ALRM	"	ONE"	2"	1"	OFF	"ON	" NO"
"F0429D	"STSE"	CONT RH CHLORINE DET 2	K0809	"K0809	"	"NORM	"ALRM	"	ONE"	2"	1"	OFF	"ON	" NO"
"F0449D	"STSE"	CONT RH CHLORINE DET 3	K0810	"K0810	"	"NORM	"ALRM	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y0404D	"STSE"	ESF ACTUATION	K0813	"K0813	"	"RES	"SET	"	ONE"	1"	1"	OFF	"ON	" NO"
"Y0403D	"STSE"	CHIT ISOL PHASE B	K0814	"K0814	"	"NORM	"OPER	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0400D	"STSE"	RCLA 1 LO F PART RX	K0901	"K0901	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0401D	"STSE"	RCLA 2 LO F PART RX	K0902	"K0902	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0402D	"STSE"	RCLA 3 LO F PART RX	K0903	"K0903	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"Y0400D	"STSE"	RCPA BHR OPEN CAUSE RX	K0904	"K0904	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0420D	"STSE"	RCLB 1 LO F PART RX	K0905	"K0905	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0421D	"STSE"	RCLB 2 LO F PART RX	K0906	"K0906	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0422D	"STSE"	RCLB 3 LO F PART RX	K0907	"K0907	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"Y0420D	"STSE"	RCPB BHR OPEN CAUS RX	K0908	"K0908	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0440D	"STSE"	RCLC 1 LO F PART RX	K0909	"K0909	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0441D	"STSE"	RCLC 2 LO F PART RX	K0910	"K0910	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0442D	"STSE"	RCLC 3 LO F PART RX	K0911	"K0911	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF	"ON	" NO"

1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRH	*CRT	*ALRH	*ALRH	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*		*	**CONT	*CONT	*CCN	*	*CONT	*CCNT	*	*TIME	
	*	*		*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	**?	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
*****													
"Y04400	"STSE"	RCPC	8KR OPEN CAUS RX	K0912	"K0912	"	"NORM	"TRIP	"	ONE"	1"	1"	OFF "ON " NO"
"Y28340	"STSE"	GEN	FIELD OVERCURRENT	K1	"K1	"	"NORM	"ALRH	"	ONE"	3"	1"	OFF "ON " NO"
C1"Y28360	"STSE"	GEN	FIELD GND DETECTION	K1,K2	"K1,K2	"	"NORM	"ALRH	"	ONE"	3"	1"	OFF "ON " NO"
"P04910	"STSE"	PRZR	LO P 3 SI PART RX	K1004	"K1004	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"P04890	"STSE"	PRZR	LO P 1 SI PART RX	K1005	"K1005	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"P04900	"STSE"	PRZR	LO P 2 SI PART RX	K1006	"K1006	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N00940	"STSE"	NIS	SOURCE CH1 TRIP BYP	K1007	"K1007	"	"NORM	"ALRH	"	ONE"	2"	1"	OFF "ON " NO"
"N00950	"STSE"	NIS	SOURCE CH2 TRIP BYP	K1008	"K1008	"	"NORM	"ALRH	"	ONE"	2"	1"	OFF "ON " NO"
"N00960	"STSE"	NIS	INTER CH1 TRIP BYP	K1009	"K1009	"	"NORM	"ALRH	"	ONE"	2"	1"	OFF "ON " NO"
"N00970	"STSE"	NIS	INTER CH2 TRIP BYP	K1010	"K1010	"	"NORM	"ALRH	"	ONE"	2"	1"	OFF "ON " NO"
"P05060	"STSE"	PRZR	PHR REL BLK P	K1011	"K1011	"	"NORM	"LOW	"	ONE"	2"	1"	OFF "ON " NO"
"T04030	"STSE"	RCLA	OVTIP DT 2 PART RX	K1101	"K1101	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"T04230	"STSE"	RCLB	OVTIP DT 2 PART RX	K1102	"K1102	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"T04430	"STSE"	RCLC	OVTIP DT 2 PART RX	K1103	"K1103	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"T04000	"STSE"	RCLA	OVPWR DT 1 PART RX	K1104	"K1104	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"T04200	"STSE"	RCLB	OVPWR DT 1 PART RX	K1105	"K1105	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"T04400	"STSE"	RCLC	OVPWR DT 1 PART RX	K1106	"K1106	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"F04040	"STSE"	SG	A STM/FM F 3 PART RX	K1107	"K1107	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF "ON " NO"
"F04050	"STSE"	SG	A STM/FM F 4 PART RX	K1108	"K1108	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF "ON " NO"
"F04240	"STSE"	SG	B STM/FM F 3 PART RX	K1109	"K1109	"	"NORM	"TRIP	"	ONE"	3"	1"	OFF "ON " NO"



1				2												
T / NO.	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY	
C	*NO.	*TYPE		*TAG NO.	**STAT	**STAT	*ON	*NO.	*CUT	*STAT	*CON	*CON	*CUT	*STAT	*SPEC	*CORR
					**OPEN	**CLSD	*STAT		*PT.NO.							
0	*0	*1	*2	*5	**1	*2	*3	*3	*4				*5	*6	*6	*7
1	*4	*7	*2	*5	**7	*9	*1	*8	*3				*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID				*ACSD	*RPTD	*INVD	*RLTH
*CCCCCCCCCCCC*CCCC*CC																

1				2							
T *POINT / NO.	*PT *TYPE	*DESCRIPTION	*INSTRUMENT TAG NO.	** *DEV *STAT *CON *OPEN *ZSDS	*DEV *STAT *CON *CLSD *OSDS	*ALRM *ON *STAT *ALDD	*CRT *NO. *CUT *PT.NO.	*ALRM *CHG *INVS *RLY *CUT *STAT *SPEC *CORR *TIME			
0 *0	*1	*2	*5	**1	*2	*3	*3	*4			
1 *4	*7	*2	*5	**7	*4	*1	*8	*3			
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR*ACID	*ACSD*RPTD*INVD*RLTH			
*****											
"T0565D	"STSE"	RCLC LOLO TAVG INTLK	K1304 "K1304	""RES	"SET	"	ONE"	2"			
"P0460D	"STSE"	STLN P RATE CHNG/SLI	K1307 "K1307	""NORM	"HIGH	"	ONE"	3"			
"Y3106D	"STSE"	2/3 CONT RH CHLOR DET	K1308 "K1308	""NORM	"ALRM	"	ONE"	2"			
"L2932D	"STSE"	STH GEN A CHN 1 LEVEL	K1404 "K1404	""NORM	"HIHI	"	ONE"	3"			
"L2933D	"STSE"	STH GEN A CHN 2 LEVEL	K1405 "K1405	""NORM	"HIHI	"	ONE"	3"			
"L2934D	"STSE"	STH GEN A CHN 3 LEVEL	K1406 "K1406	""NORM	"HIHI	"	ONE"	3"			
"L2935D	"STSE"	STH GEN B CHN 1 LEVEL	K1407 "K1407	""NORM	"HIHI	"	ONE"	3"			
"L2936D	"STSE"	STH GEN B CHN 2 LEVEL	K1408 "K1408	""NORM	"HIHI	"	ONE"	3"			
"L2937D	"STSE"	STH GEN B CHN 3 LEVEL	K1409 "K1409	""NORM	"HIHI	"	ONE"	3"			
"L2938D	"STSE"	STH GEN C CHN 1 LEVEL	K1410 "K1410	""NORM	"HIHI	"	ONE"	3"			
"L2939D	"STSE"	STH GEN C CHN 2 LEVEL	K1411 "K1411	""NORM	"HIHI	"	ONE"	3"			
"L2931D	"STSE"	STH GEN C CHN 3 LEVEL	K1412 "K1412	""NORM	"HIHI	"	ONE"	3"			
"N0032D	"STSE"	INT RING CHN 1 P6 PERM	K1501 "K1501	""RES	"SET	"	NONE"	0"			
"N0033D	"STSE"	INT RING CHN 2 P6 PERM	K1502 "K1502	""RES	"SET	"	NONE"	0"			
"N0495D	"STSE"	PIR RING CHN 1 P8 PERM	K1503 "K1503	""NORM	"TRIP	"	ONE"	0"			
"N0496D	"STSE"	PIR RING CHN 2 P8 PERM	K1504 "K1504	""NORM	"TRIP	"	ONE"	0"			
"N0497D	"STSE"	PIR RING CHN 3 P8 PERM	K1505 "K1505	""NORM	"TRIP	"	ONE"	0"			
"N0498D	"STSE"	PIR RING CHN 4 P8 PERM	K1506 "K1506	""NORM	"TRIP	"	ONE"	0"			
"N0090D	"STSE"	PIR RING CHN 1 P9 PERM	K1507 "K1507	""NORM	"TRIP	"	ONE"	0"			
"N0091D	"STSE"	PIR RING CHN 2 P9 PERM	K1508 "K1508	""NORM	"TRIP	"	ONE"	0"			



1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CCRR
C					CONT	CONY	CON		CONT	STAT			TIME
					OPEN	CLSD	STAT		PT.NO.				
0	*0	*1	*2	*5	*1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	*7	*4	*1	*8	*3	*6	*1	*6	*1
	IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH
*****													
"N0092D	"STSE"	PHR	RNG CHN 3 P9 PERH	K1509	"K1509	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N0093D	"STSE"	PHR	RNG CHN 4 P9 PERH	K1510	"K1510	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"N0011D	"STSE"	NUPIR1	LO SET PT RX	K1511	"K1511	"	"RES	"HIGH	"	ONE"	0"	1"	OFF "ON " NO"
C1"N0012D	"STSE"	NUPIR2	LO SET PT RX	K1512	"K1512	"	"RES	"HIGH	"	ONE"	0"	1"	OFF "ON " NO"
"N0013D	"STSE"	NUPIR3	LO SET PT RX	K1513	"K1513	"	"RES	"HIGH	"	ONE"	0"	1"	OFF "ON " NO"
"N0014D	"STSE"	NUPIR4	LO SET PT RX	K1514	"K1514	"	"RES	"HIGH	"	ONE"	0"	1"	OFF "ON " NO"
"N0030D	"STSE"	SOURCE	CHN 1 HI Q PT RX	K1601	"K1601	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N0031D	"STSE"	SOURCE	CHN 2 HI Q PT RX	K1602	"K1602	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N0020D	"STSE"	INT	RNG 1 HI Q INIT RX	K1603	"K1603	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N0021D	"STSE"	INT	RNG 2 HI Q INIT RX	K1604	"K1604	"	"NORM	"TRIP	"	ONE"	0"	1"	OFF "ON " NO"
"N0006D	"STSE"	PIR	RNG CH 1 LO Q PT RX	K1605	"K1605	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"N0007D	"STSE"	PHR	RNG CH 2 LO Q PT RX	K1606	"K1606	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"N0008D	"STSE"	PHR	RNG CH 3 LO Q PT RX	K1607	"K1607	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"N0009D	"STSE"	PHR	RNG CH 4 LO Q PT RX	K1608	"K1608	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF "ON " NO"
"P2040D	"STSE"	TURB	IHP CHAMBER P	K1609	"K1609	"	"NORM	"HIGH	"	ONE"	2"	1"	OFF "ON " NO"
"P2041D	"STSE"	TURB	IHP CHAMBER P	K1610	"K1610	"	"NORM	"HIGH	"	ONE"	2"	1"	OFF "ON " NO"
"P0492D	"STSE"	PRZR	P 1 P11 SI UNBLK	K1611	"K1611	"	"RES	"SET	"	NONE"	0"	1"	OFF "ON " NO"
"P0493D	"STSE"	PRZR	P 2 P11 SI UNBLK	K1612	"K1612	"	"RES	"SET	"	NONE"	0"	1"	OFF "ON " NO"
"P0494D	"STSE"	PRPZ	P 3 P11 SI UNBLK	K1613	"K1613	"	"RES	"SET	"	NONE"	0"	1"	OFF "ON " NO"
"Y3213D	"STSE"	P6	PERMISSIVE	K1701	"K1701	"	"ON	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"

1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*PLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*		*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME	
	*	*		*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTN
*****													
"Y3197D	"STSE"	P-7	PERMISSIVE	K1702	"K1702	"	ON	"OFF	"	ONE"	2"	1"	OFF "ON " NO"
"Y3211D	"STSE"	P-8	PERMISSIVE	K1703	"K1703	"	ON	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y6669D	"STSE"	NOT P9		K1704	"K1704	"	P9	"NOT	"	ONE"	2"	1"	OFF "ON " NO"
"Y3196D	"STSE"	P-10	PERMISSIVE	K1705	"K1705	"	OFF	"ON	"	ONE"	2"	1"	OFF "ON " NO"
"T2865D	"STSE"	LO-LO TAVG	BLKD STM DUMPK1706	K1706	"K1706	"	NORM	"PERH	"	ONE"	2"	1"	OFF "CH " NO"
"Y3212D	"STSE"	P-13	PERMISSIVE	K1707	"K1707	"	ON	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3194D	"STSE"	AUTO SAFETY	INJECTION	K1708	"K1708	"	NORM	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y0402D	"STSE"	RCLA	STOP VLVS	K1709	"K1709	"	OPEN	"CLSD	"	ONE"	2"	1"	OFF "ON " NO"
"Y0422D	"STSE"	RCLB	STOP VLVS	K1710	"K1710	"	OPEN	"CLSD	"	ONE"	2"	1"	OFF "ON " NO"
"Y0442D	"STSE"	RCLC	STOP VLVS	K1711	"K1711	"	OPEN	"CLSD	"	ONE"	2"	1"	OFF "ON " NO"
"Y5249D	"STSE"	EX TRP & LOW	TAVG FW V	K1712	"K1712	"	OPEN	"CLSD	"	ONE"	3"	1"	OFF "ON " NO"
"Y3198D	"STSE"	SOURCE	RNGE TN A BLOCK	K1801	"K1801	"	NORM	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3199D	"STSE"	SOURCE	RNGE TN B BLOCK	K1802	"K1802	"	NORM	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3207D	"STSE"	NIS INT	RNG TRIP TN A	K1803	"K1803	"	RES	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3208D	"STSE"	NIS INT	RNG TRIP TN B	K1804	"K1804	"	RES	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3209D	"STSE"	PR LOW	SP TRIP TN A	K1805	"K1805	"	RES	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3210D	"STSE"	PR LOW	SP TRIP TN B	K1806	"K1806	"	RES	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3190D	"STSE"	PRZR	SI BLOCKED TN A	K1807	"K1807	"	NORM	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"Y3191D	"STSE"	PRZR	SI BLOCKED TN B	K1808	"K1808	"	NORM	"BLKD	"	ONE"	2"	1"	OFF "ON " NO"
"P0402D	"STSE"	STLN	ISOL/SI BLK TN A	K1809	"K1809	"	RES	"SET	"	ZERO"	2"	1"	OFF "ON " NO"

1				2							
T *POINT / *NO.	*PT *TYPE	*DESCRIPTION	*INSTRUMENT *TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*RLY	
C *	*	*	*	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT*SPEC*CORR	
*0	*1	*2	*5	**CONT	*CONT	*CON	*	*CONT	*CONT*	*TIME	
1 *4	*7	*2	*5	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT*	*	
*IDEN	*P	*DESC	*SIT	**1	*2	*3	*3	*4	*5	*6	
*****	*****	*****	*****	**7	*4	*1	*8	*3	*6	*1	
				**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	
										*INVD	
										*RLTH	
"P0403D	"STSE"	STLN ISOL/SI BLK TN B	K1010 "K1010	""RES	"SET	"	ZERO"	2"	1"OFF	"ON " NO"	
"Y3195D	"STSE"	SAFETY INJECTION SIGNAL	K1011 "K1011	""RES	"INIT	"	ONE"	2"	1"OFF	"ON " NO"	
"Y6703D	"STSE"	BOR DILUTION PERMISSIVE	K1012 "K1012	""BLKD	"UNBLKD"	"	ONE"	2"	1"OFF	"ON " NO"	
"Y2629D	"STSE"	GENERATOR FIELD FORCING	K4 "K4	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON " NO"	
C1"Y2075D	"STSE"	SSS TFIR 2A	K4-FPHAX"K4-FPHAX	""NORM	"FIRE	"	ONE"	3"	1"OFF	"ON " NO"	
C1"Y2091D	"STSE"	SSS TFIR 2B	K4-FPHBX"K4-FPHBX	""NORM	"FIRE	"	ONE"	3"	1"OFF	"ON " NO"	
C1"Y2000D	"STSE"	USS TFIR 2C	K4-FPHCX"K4-FPHCX	""NORM	"FIRE	"	ONE"	3"	1"OFF	"ON " NO"	
C1"Y2901D	"STSE"	USS TFIR 2D	K4-FPHDX"K4-FPHDX	""NORM	"FIRE	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2046D	"STSE"	MAIN TFIR	K4-FPHNA"K4-FPHNA	""NORM	"FIRE	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2060D	"STSE"	USS TFIR 2C DELUGE VLV	K5-FPHAX"K5-FPHAX	""NORM	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2061D	"STSE"	USS TFIR 2D DELUGE VLV	K5-FPHBX"K5-FPHBX	""NORM	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2065D	"STSE"	SSS TFIR 2A DELUGE VLV	K5-FPHCX"K5-FPHCX	""NORM	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2066D	"STSE"	SSS TFIR 2B DELUGE VLV	K5-FPHDX"K5-FPHDX	""NORM	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2054D	"STSE"	MAIN TFIR DELUGE VLV	K5-FPHNA"K5-FPHNA	""NORM	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y3176D	"STSE"	HYD SEAL OIL UNIT DEL V	K5-FPHNF"K5-FPHNF	""CLSD	"OPEN	"	ONE"	1"	1"OFF	"ON " NO"	
"Y3177D	"STSE"	HYD SEAL OIL RSVR DEL V	K5-FPHNG"K5-FPHNG	""CLSD	"OPEN	"	ONE"	1"	1"OFF	"ON " NO"	
"Y5722D	"STSE"	RX PROT SYS TN A	K524A "K524A	""NORM	"TRBL	"	ONE"	0"	1"ON	"ON " NO"	
"Y5723D	"STSE"	RX PROT SYS TN B	K524B "K524B	""NORM	"TRBL	"	ONE"	0"	1"ON	"ON " NO"	
"Y0137D	"STSE"	NIS PR HILO SP AUTO	K602-10 "K602-10	""DEFT	"NORM	"	ZERO"	2"	1"OFF	"ON " NO"	
"Y0136D	"STSE"	NIS PR HILO SP FLUX	K604-10 "K604-10	""DEV	"NORM	"	ZERO"	2"	1"OFF	"ON " NO"	

1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR
C	*	*	*	*	CONT	CONT	CON	*	CONT	CONT	*	TIME	
					OPEN	CLSD	STAT		PT.NO.	STAT	*	*	*
0	x0	x1	x2	x5	x1	x2	x3	x3	x4	x5	x6	x6	x7
1	x4	x7	x2	x5	x7	x4	x1	x8	x3	x6	x1	x6	x1
	IDEN	IP	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH
	CCCCCCCCCCCC	CCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCC	CCCC	CCCC	CCCC	CCCC	CCCC	CCCC	CCCC	CCCC
"Y6010D	"STSE"	CHNT	ISOL PHASE A SIG	K613	"K613	"	NORM	ACTE	"	ONE"	0"	1"	OFF "ON " NO"
"Y6120D	"STSE"	FEEDWATER	ISOL SIGNAL	K636B	"K636B	"	NORM	ACTE	"	ONE"	0"	1"	OFF "ON " NO"
"Y6070D	"STSE"	CHNT	ISOL PHASE B SIGNAL	K644	"K644	"	NORM	ACTE	"	ONE"	0"	1"	OFF "ON " NO"
"P2805D	"STSE"	DG 2-1	RSVR 1 STR AIR P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2806D	"STSE"	DG 2-1	RSVR 2 STR AIR P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2807D	"STSE"	DG 2-1	JACKET COOL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2808D	"STSE"	DG 2-1	ROCK ARM OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2809D	"STSE"	DG 2-1	FUEL OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2810D	"STSE"	DG 2-1	LUBE OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2811D	"STSE"	DG 2-1	CRANK(CASE P L ANN	"L ANN	"	NORM	HIGH	"	ONE"	3"	1"	OFF "ON " NO"	
"P2812D	"STSE"	DG 2-2	RSVR 1 STR AIR P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2813D	"STSE"	DG 2-2	RSVR 2 STR AIR P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2814D	"STSE"	DG 2-2	JACKET COOL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2815D	"STSE"	DG 2-2	ROCK ARM OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2816D	"STSE"	DG 2-2	FUEL OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2817D	"STSE"	DG 2-2	LUBE OIL P L ANN	"L ANN	"	NORM	LOW	"	ONE"	3"	1"	OFF "ON " NO"	
"P2818D	"STSE"	DG 2-2	CRANK(CASE P L ANN	"L ANN	"	NORM	HIGH	"	ONE"	3"	1"	OFF "ON " NO"	
"Y3155D	"STSE"	GEN	PURGE LEVEL	LLR	"LLR	"	NORM	LOW	"	ONE"	1"	1"	OFF "ON " NO"
"P2804D	"STSE"	E H FLUID	PS 1-2-3-4LP LP-1+2	"LP-1+LP-2	"	NORM	LOW	"	ONE"	2"	1"	OFF "ON " NO"	
"Y5762D	"STSE"	ROD POS	DC PHR SUPPLY	ZRDC	"LTR	"	NORM	FAIL	"	ONE"	2"	1"	OFF "ON " NO"



1			2									
T #POINT	#PT	#DESCRIPTION	#INSTRUMENT	#DEV	#ALRM	#CRT	#ALRM	#ALRM	#CHG	#INVS	#RLY	
/ #ID.	#TYPE		#TAG NO.	#STAT	#STAT	#ON	#NO.	#CUT	#CUT	#STAT	#SPEC	#CORR
C #	#	#	#	#CONT	#CONT	#CON	#	#CONT	#CONT	#	#	#TIME
#	#	#	#	#OPEN	#CLSD	#STAT	#	#PT.NO.	#STAT	#	#	#
0 #0	#1	#2	#5	#1	#2	#3	#3	#4	#5	#6	#6	#7
1 #4	#7	#2	#5	#7	#4	#1	#8	#3	#6	#1	#6	#1
#IDEN	#P	#DESC	#SIT	#ZSDS	#OSDS	#ALDO	#ALPR	#ACID	#ACSD	#RPTD	#INVD	#RLTH
*****												
"L0494D	"STSE"	PRZR RELIEF TK L	LY/470A "LY/470A	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
"L0495D	"STSE"	PRZR RELIEF TK L	LY/470B "LY/470B	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"L0496D	"STSE"	PRZR RELIEF TK LEVEL	LY/470X "LY/470X	"HIHI	"NORM	"	ZERO"	2"	1"OFF	"ON	"	NO"
"Y0131D	"STSE"	NIS PHR RNG HI SP RD W/DNC41LX	"NC 41LX	"NORM	"BLCK	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y0133D	"STSE"	NIS SR FLUX AT SHUTDOWN NC31/2CX"NC31/32CX		"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y0134D	"STSE"	NIS SR FLUX ALARM	N31/32AX"N31AX,N32AX	"NORM	"BLCK	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2048D	"STSE"	MAN TURB TRIP FROM HCB	PB1/PB2 "PB1/PB2	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y3220D	"STSE"	OSCILLOGRAPH 2	P2FALREC"PML2-FAL-REC	"NORM	"INIT	"	ONE"	2"	1"OFF	"ON	"	NO"
"P2041D	"STSE"	TURB BRG OIL P (T TRIP)	PS-LBO "PS-LBO	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
C1"Y3104D	"STSE"	CONT RH AIR SUP SHOCK	PU-20 "PU-20	"NORM	"ALRM	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y3214D	"STSE"	C-5 PERMISSIVE	PY-446DX"PY-446DX	"ON	"INIT	"	ONE"	2"	1"OFF	"ON	"	NO"
"P0507D	"STSE"	PRZR RELIEF TK P	PY/472A "PY/472A	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
"P0499D	"STSE"	PRZR RELIEF TK PRESS	PY/472X "PY/472X	"HIHI	"NORM	"	ZERO"	2"	1"OFF	"ON	"	NO"
"Y3200D	"STSE"	LOAD REJECTION 15-50% (C7A)	"PY447AX	"NOT	"INIT	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y3201D	"STSE"	LOAD REJECTION GT.50 PCT(C7B)	"PY447CX	"NOT	"INIT	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y0135D	"SYSE"	NIS IR FLUX HI ROD W/D	RSXA/B "RSXA,RSXB	"NORM	"STOP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2845D	"STSE"	GEN HYDROGEN COOLER PHL R1	"R1,R2	"NORM	"TRBL	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2892D	"STSE"	USS TFHR 2C GAS COMBUS	R2 "R2	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2898D	"STSE"	USS TFHR 2D GAS COMBUS	R2 "R2	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3206D	"STSE"	STH DUMP DEFEAT INTLK	SDX5A/B2"SDX5A2/B2	"RES	"SET	"	ONE"	2"	1"OFF	"ON	"	NO"

1				2							
T *POINT / #ID.	*PT #TYPE*	*DESCRIPTION	*INSTRUMENT #TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*CHS	*INVS	*RLY
C *	*	*	*	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*CORR
				**CONT	*CON	*CON	*CONT	*CONT	*CONT	*TIME	
				**OPEN	*CLSD	*STAT	*PT.NO.				
0 *0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*7
1 *4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*1
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD
*****											
"Y3140D	"STSE"	CONTROL BLDG	THR-Z1 "THR-Z1	""NORM	"ALRM	"	ONE"	1"	1"OFF	"ON	" NO"
"Y3150D	"STSE"	SERVICE BLDG FIRE	THR-Z4 "THR-Z4	""NORM	"ALRM	"	ONE"	1"	1"OFF	"CN	" HO"
"Y3151D	"STSE"	EMER DG 2-1 BLDG	THR-Z5 "THR-Z5	""NORM	"ALRM	"	ONE"	1"	1"OFF	"ON	" NO"
"Y3152D	"STSE"	EMER DG 2-2 BLDG FIRE	THR-Z6 "THR-Z6	""NORM	"ALRM	"	ONE"	1"	1"OFF	"ON	" HO"
"Y2033D	"STSE"	TURB DIFF EXP ROT 1	T INSTR "TURB INST	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2034D	"STSE"	TURB DIFF EXP ROT 2	T INSTR "TURB INST	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2036D	"STSE"	TURB ROTOR VIBRATION	T INSTR "TURB INST	""NORM	"HIGH	"	ONE"	3"	1"OFF	"CN	" NO"
"Y2037D	"STSE"	TURB ECCENTRICITY	T INSTR "TURB INST	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	" NO"
"T0490D	"STSE"	PRZR RELIEF TK T	TY/471 "TY/471	""NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	" NO"
"V2916D	"STSE"	PRI PROC CAB 1 PHR SUP	UY761A "UY761A	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2917D	"STSE"	PRI PROC CAB 2 PHR SUP	UY762A "UY762A	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2918D	"STSE"	PRI PROC CAB 3 PHR SUP	UY763A "UY763A	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2919D	"STSE"	PRI PROC CAB 4 PHR SUP	UY764A "UY764A	""FAIL	"NORM	"	ZERC	2"	1"OFF	"ON	" NO"
"V2920D	"STSE"	PRI PROC CAB 5 PHR SUP	UY765F "UY765F	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2921D	"STSE"	PRI PROC CAB 6 PHR SUP	UY766L "UY766L	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2922D	"STSE"	PRI PROC CAB 7 PHR SUP	UY767G "UY767G	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
"V2923D	"STSE"	PRI PROC CAB 8 PHR SUP	UY768K "UY768K	""FAIL	"NORM	"	ZERO"	2"	1"OFF	"ON	" NO"
C0"Y2047D	"STSE"	TURB TRIP FROM RX TRIP	X1A/X4A "X1A/X4A/X1B/X4B	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y0158D	"STSE"	RX TRIP BYP BHR A OPER	X6A "X6A SHGR	""NOT	"POS	"	ONE"	2"	1"OFF	"ON	" NO"
"Y0159D	"STSE"	RX TRIP BYP BHR B OPER	X6B "X6B SHGR	""NOT	"POS	"	ONE"	2"	1"OFF	"ON	" NO"



1					2										
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CIG	*INVS	*ELY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR		
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*CONT	*CONT			
	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*	*	*
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7		
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1		
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH		
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"Y0489D	"STSE"	PRZR	HTR GROUP D AUTO	1-RCPAH	"1-RCPAH	"	"NORM	"ON	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y0487D	"STSE"	PRZR	HTR GROUP A AUTO	1A-RCPAL	"1A-RCPAL	"	"NORM	"ON	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y0488D	"STSE"	PRZR	HTR GROUP B AUTO	1A-RCPBL	"1A-RCPBL	"	"NORM	"ON	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y0490D	"STSE"	PRZR	HTR GROUP E AUTO	1A-RCPBH	"1A-RCPBH	"	"NORM	"ON	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y2045D	"STSE"	TURB	ANTI-MOTORING	162THAABX	"162-THAABX	"	"NORM	"TRIP	"	ONE"	2"	1"	OFF	"ON	" NO"
"Y2024D	"STSE"	TURBINE	MOTORING	2/AHTHAA	"2/AH-THAAB	"	"NORM	"ALRM	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0202D	"STSE"	AUX	STM COND RCVR TK21	LAS105-1"	"2ASS-LS105-1	"	"NORM	"HIHI	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0203D	"STSE"	AUX	STM COND RCVR TK21	LAS105-4"	"2ASS-LS105-4	"	"NORM	"LOLO	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0204D	"STSE"	COND	RCVR TK 23 L	ASL216-1"	"2ASS-LS216-1	"	"NORM	"HIHI	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0205D	"STSE"	COND	RCVR TK 23 L	ASL216-1"	"2ASS-LS216-1	"	"NORM	"LOLO	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0206D	"STSE"	COND	RCVR TK 25 L	ASL220-1"	"2ASS-LS220-1	"	"NORM	"HIHI	"	ONE"	3"	1"	OFF	"ON	" NO"
"L0207D	"STSE"	COND	RCVR TK 25 L	ASL220-1"	"2ASS-LS220-1	"	"NORM	"LOLO	"	ONE"	3"	1"	OFF	"ON	" NO"
"P0204D	"STSE"	AUX	STM HDR P	AS-P-100"	"2ASS-PYL100	"	"NORM	"LOW	"	ONE"	3"	1"	OFF	"ON	" NC"
"L0462D	"STSE"	STM	GEN BLDN TK 21 L	BD-L106	"2BDG-LS106	"	"NORM	"HIGH	"	ONE"	1"	1"	OFF	"ON	" NO"
"L0463D	"STSE"	STM	GEN BLDN TK 21 L	BD-L107	"2BDG-LS107	"	"NORM	"LOW	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0550D	"STSE"	RCP	21A TH BARR OUT F	CCF107A2"	"2CCP-FYH107A2	"	"NORM	"HIGH	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0551D	"STSE"	RCP	21B TH BARR OUT F	CCF107B2"	"2CCP-FYH107B2	"	"NORM	"HIGH	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0552D	"STSE"	RCP	21C TH BARROUT F	CCF107C2"	"2CCP-FYH107C2	"	"NORM	"HIGH	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0553D	"STSE"	RCPA	UBLO CLG HTR F	CC-F104A"	"2CCP-FYL104A	"	"NORM	"LOW	"	ONE"	1"	1"	OFF	"ON	" NO"
"F0554D	"STSE"	RCPB	UBLO CLG HTR F	CC-F104B"	"2CCP-FYL104B	"	"NORM	"LOW	"	ONE"	1"	1"	OFF	"ON	" NO"

1				2									
T / C	POINT / NO.	PT TYPE	DESCRIPTION	INSTRUMENT TAG NO.	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY
					STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR
					CONT	CONT	CON		CONT	CONT			TIME
					OPEN	CLSD	STAT		PT.NO.	STAT			
					1	2	3	4		5	6	7	
					7	4	1	8	3	6	1	6	1
					ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH
"F0555D	"STSE"RCPC UBLO CLG WTR F	CC-F104C	"2CCP-FYL104C	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0565D	"STSE"RCPA STAT CLG WTR F	CC-F105A	"2CCP-FYL105A	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0566D	"STSE"RCPB STAT CLG WTR F	CC-F105B	"2CCP-FYL105B	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0567D	"STSE"RCPC STAT CLG WTR F	CC-F105C	"2CCP-FYL105C	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0556D	"STSE"RCPA LBLO CLG WTR F	CC-F106A	"2CCP-FYL106A	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0557D	"STSE"RCPB LBLO CLG WTR F	CC-F106B	"2CCP-FYL106B	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"F0558D	"STSE"RCPC LBLO CLG WTR F	CC-F106C	"2CCP-FYL106C	"NORM	"LOW	"	ONE"	1"		1"OFF	"ON	"	NO"
"L0551D	"STSE"PCC WTR SURGE TK 21A L	CC-L100A	"2CCP-LYH100A	"NORM	"HIGH	"	ONE"	3"		1"OFF	"ON	"	NO"
"L0553D	"STSE"PCC WTR SURGE TK 21B L	CC-L100B	"2CCP-LYH100B	"NORM	"HIGH	"	ONE"	3"		1"OFF	"ON	"	NO"
"L0550D	"STSE"PCC WTR SURGE TK 21A L	CC-L100A	"2CCP-LYL100A	"NORM	"LOW	"	ONE"	3"		1"OFF	"ON	"	NO"
"L0552D	"STSE"PCC WTR SURGE TK 21B L	CC-L100B	"2CCP-LYL100B	"NORM	"LOW	"	ONE"	3"		1"OFF	"ON	"	NO"
"P0550D	"STSE"PCC PP DISCH HDR P	CC-PS100	"2CCP-PS100	"NORM	"LOW	"	ONE"	3"		1"OFF	"ON	"	NO"
"T0553D	"STSE"RCP 21A CLG WTR DISCH T	CC-T105A	"2CCP-TYH105A	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"T0554D	"STSE"RCP 21B CLG WTR DISCH T	CC-T105B	"2CCP-TYH105B	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"T0555D	"STSE"RCP 21C CLG WTR DISCH T	CC-T105C	"2CCP-TYH105C	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"T0550D	"STSE"RCP 21A TH BARR DISCH T	CC-T107A	"2CCP-TYH107A	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"T0551D	"STSE"RCP 21B TH BARR DISCH T	CC-T107B	"2CCP-TYH107B	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"T0552D	"STSE"RCP 21C TH BARR DISCH T	CC-T107C	"2CCP-TYH107C	"NORM	"HIGH	"	ONE"	1"		1"OFF	"ON	"	NO"
"L0670D	"STSE"SEC CC WTR SURGE TK21 L	CC-L1311	"2CCS-LS131-1	"NORM	"HIHI	"	ONE"	3"		1"OFF	"ON	"	NO"
"L0671D	"STSE"SEC CC WTR SURGE TK21 L	CC-L1314	"2CCS-LS131-4	"NORM	"LOLO	"	ONE"	3"		1"OFF	"ON	"	NO"

1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	*STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*		*	*CONT	*CONT	*CON	*	*CONT	*	*TIME		
	*	*		*	*OPEN	*CLSD	*STAT	*	*PT.NO.	*	*STAT	*	*
0	*0	*1	*2	*5	*1	*2	*3	*4	*5	*6	*6	*7	
1	*4	*7	*2	*5	*7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	*ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"	P0670D	"	STSE"SEC CC HTR PP DISCH P	CC-P-202"2CCS-PS202	""	NORM	"	LOW	"	ONE	"	3"	1"OFF "ON " NO"
"	P0127D	"	STSE"RPC SEAL DIFF P	CH-D154 "2CHS-DYL154	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	P0126D	"	STSE"RPCB SEAL DIFF P	CH-D155 "2CHS-DYL155	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	P0125D	"	STSE"RPCA SEAL DIFF P	CH-D156 "2CHS-DYL156	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0100D	"	STSE"CHG PPS DISCH HDR F	CH-F122B"2CHS-FYH122B	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	F0137D	"	STSE"NONREG HX DISCH FLOW	CH-F150 "2CHS-FYH150	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	F0129D	"	STSE"RCP 21C SEAL LEAK OFF F	CH-F154A"2CHS-FYH154A	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	F0125D	"	STSE"RCP 21A SEAL LEAK OFF F	CH-F156A"2CHS-FYH156A	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	F0112D	"	STSE"RCP 21C SEAL INJ HTR F	CH-FL124"2CHS-FYL124	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0116D	"	STSE"RCP 21B SEAL INJ HTR F	CH-FL127"2CHS-FYL127	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0118D	"	STSE"RCP 21A SEAL INJ HTR F	CH-FL130"2CHS-FYL130	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0130D	"	STSE"RCP 21C SEAL LEAK OFF F	CH-F154B"2CHS-FYL154B	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0127D	"	STSE"RCP 21B SEAL LEAK OFF F	CH-F155A"2CHS-FYL155A	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	F0128D	"	STSE"RCP 21B SEAL LEAK OFF F	CH-F155B"2CHS-FYL155B	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	F0126D	"	STSE"RCP 21A SEAL LEAK OFF F	CH-F156B"2CHS-FYL156B	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	L0144D	"	STSE"VOLUME CONT TK 22 L	CH-L115D"2CHS-LYH115D	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	L0145D	"	STSE"VOLUME CONT TK 22 L	CH-L115E"2CHS-LYL115E	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"
"	P0144D	"	STSE"VOLUME CONT TK 22 P	CH-P117A"2CHS-PYH117A	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	P0137D	"	STSE"NONREG HX DISCH P	CH-PH145"2CHS-PYH145	""	NORM	"	HIGH	"	ONE	"	1"	1"OFF "ON " NO"
"	P0145D	"	STSE"VOLUME CONT TK 22 P	CH-P117B"2CHS-PYL117B	""	NORM	"	LOW	"	ONE	"	1"	1"OFF "ON " NO"

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1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RPLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CONF
C	*	*	*	*	CONT	CONT	CON	*	CONT	CONT	*	*	E
*	*	*	*	*	OPEN	CLSD	STAT	*	PT.NO.	STAT	*	*	*
0	#0	#1	#2	#5	#1	#2	#3	#3	#4	#5	#6	#6	#7
1	#4	#7	#2	#5	#7	#4	#1	#8	#3	#6	#1	#6	#1
	IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RRLTH
*****													
"L20170	"STSE"	"RHTR	DN RCVR TK 23B L	HDL100B1"	2HDM	-LS100B1	"NORM	"EX-HI	"	ONE"	3"	1"OFF	"ON " NO"
"L20180	"STSE"	"RHTR	DN RCVR TK 23B L	HDL100B2"	2HDM	-LS100B2	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20190	"STSE"	"RHTR	DN RCVR TK 23C L	HDL100C1"	2HDM	-LS100C1	"NORM	"EX-HI	"	ONE"	3"	1"OFF	"ON " NO"
"L20200	"STSE"	"RHTR	DN RCVR TK 23C L	HDL100C2"	2HDM	-LS100C2	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20210	"STSE"	"RHTR	DN RCVR TK 23D L	HDL100D1"	2HDM	-LS100D1	"NORM	"EX-HI	"	ONE"	3"	1"OFF	"ON " NO"
"L20220	"STSE"	"RHTR	DN RCVR TK 23D L	HDL100D2"	2HDM	-LS100D2	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20250	"STSE"	"HOIS	SEP RCVR TK A L	HD-L112A"	2HDM	-LS112A	"NORM	"HIHI	"	ONE"	3"	1"OFF	"ON " NO"
"L20260	"STSE"	"HOIS	SEP RCVR TK B L	HD-L112B"	2HDM	-LS112B	"NORM	"HIHI	"	ONE"	3"	1"OFF	"ON " NO"
"L20270	"STSE"	"HOIS	SEP RCVR TK C L	HD-L112C"	2HDM	-LS112C	"NORM	"HIHI	"	ONE"	3"	1"OFF	"ON " NO"
"L20280	"STSE"	"HOIS	SEP RCVR TK D L	HD-L112D"	2HDM	-LS112D	"NORM	"HIHI	"	ONE"	3"	1"OFF	"ON " NO"
"L20130	"STSE"	"HTR	DN RCVR TK 21A L	HD-L106A"	2HDM	-LYH106A	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20230	"STSE"	"HTR	DN RCVR TK 21B L	HD-L106B"	2HDM	-LYH106B	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20020	"STSE"	"HOIS	SEP RCVR TK A L	HD-L115A"	2HDM	-LYH115A	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20040	"STSE"	"HOIS	SEP RCVR TK B L	HD-L115B"	2HDM	-LYH115B	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20060	"STSE"	"HOIS	SEP RCVR TK C L	HD-L115C"	2HDM	-LYH115C	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20080	"STSE"	"HOIS	SEP RCVR TK D L	HD-L115D"	2HDM	-LYH115D	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"
"L20140	"STSE"	"HTR	DN RCVR TK 21A L	HD-L106A"	2HDM	-LYL106A	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"
"L20240	"STSE"	"HTR	DN RCVR TK 21B L	HD-L106B"	2HDM	-LYL106B	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"
"L20030	"STSE"	"HOIS	SEP RCVR TK A L	HD-L115A"	2HDM	-LYL115A	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"
"L20050	"STSE"	"HOIS	SEP RCVR TK B L	HD-L115B"	2HDM	-LYL115B	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"

1			2									
T *POINT / *NO.	*PT *TYPE*	*DESCRIPTION	*INSTRUMENT *TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*PLY		
C *	* *			**STAT	*STAT	*OH	*HIO.	*CUT	*CUT	*STAT*SPEC*CORR		
				**CCHT	*CONT	*CON		*CCHT	*CONT*	*TIME		
0 *0	*1	*2	*5	**OPEN	*CLSD	*STAT		*PT.NO.	*STAT*		*5	*6
1 *4	*7	*2	*5	**1	*2	*3	*3	*4	*6	*1	*6	*7
*IDEN	*P	*DESC	*SIT	**7	*4	*1	*8	*3	*6	*1	*6	*1
*****												
"L2007D	"STSE"	"MOIS SEP RCVR TK C L	HD-L115C"2H0H-LYL115C	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"L2009D	"STSE"	"MOIS SEP RCVR TK D L	HD-L115D"2H0H-LYL115D	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y0425D	"STSE"	"AUX FH P22 START	HS*S105A"2H5S*SOV105A+D	""NORM	"AUTO	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y6649D	"STSE"	"AUX FH P22 STH SUP V A/DHS*S105A"2H5S*SOV105A/D	""NORM	"FAILED"		ONE"	3"		1"OFF	"ON	"	NO"
"Y0426D	"STSE"	"AUX FH P22 START	HS*S105B"2H5S*SOV105B+E	""NORM	"AUTO	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y6650D	"STSE"	"AUX FH P22 STH SUP V B/EHS*S105B"2H5S*SOV105B/E	""NORM	"FAILED"		ONE"	3"		1"OFF	"ON	"	NO"
"Y6648D	"STSE"	"AUX FH P22 START	HS*S105C"2H5S*SOV105C+F	""NORM	"AUTO	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y6651D	"STSE"	"AUX FH P22 STH SUP V C/FHS*S105C"2H5S*SOV105C/F	""NORM	"FAILED"		ONE"	3"		1"OFF	"ON	"	NO"
"P2010D	"STSE"	"LOOP A ATH STH DUMP P	HS-P101A"2H5S-PYH101A	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P2011D	"STSE"	"LOOP B ATH STH DUMP P	HS-P101B"2H5S-PYH101B	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"P2012D	"STSE"	"LOOP C ATH STH DUMP P	HS-P101C"2H5S-PYH101C	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0515D	"STSE"	"REFUEL HTR STG TK L	QS-LH100"2Q5S-LYH100	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0516D	"STSE"	"REFUEL HTR STG TK L	QS-LJ100"2Q5S-LYJ100	""NORM	"HIHI	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0518D	"STSE"	"REFUEL HTR STG TK L	QS-LK100"2Q5S-LYK100	""NORM	"LOLO	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0517D	"STSE"	"REFUEL HTR STG TK L	QS-LL100"2Q5S-LYL100	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0520D	"STSE"	"CHEM ADD TK 22 L	QS-LL101"2Q5S-LYL101	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"T0527D	"STSE"	"CHEM ADD TK 22 T	QS-TL101"2Q5S-TYL101	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"L0491D	"STSE"	"PRZR CONTROL L	RC-L459C"2RCS-LC459CXA	""NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"L0492D	"STSE"	"PRZR CONTROL L DEV	RC-L459B"2RCS-LYH459B	""NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
"L0490D	"STSE"	"PRZR CONTROL L	RC-L460A"2RCS-LYH460A	""NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"



1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*	*TIME
0	*0	*1	*2	*5	**OPE	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
1	*4	*7	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
	*IDEN	*P	*DESC	*SIT	**7	*4	*1	*8	*3	*6	*1	*6	*1
	*****	*****	*****	*****	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
	"L0493D	"STSE"	PRZR CONTROL L DEV	RC-L459C"2RCS-LYL459C	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0502D	"STSE"	PRZR CONTROL P DEV	RC-P444C"2RCS-PYH444C	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0500D	"STSE"	PRZR CONTROL P	RC-P445B"2RCS-PYH445B	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0503D	"STSE"	PRZR BU HTR ACTUATION P	RC-P444B"2RCS-PYL444B	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0501D	"STSE"	PRZR CONTROL P	RC-P445A"2RCS-PYL445A	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
	"P0505D	"STSE"	PRZR PHR REL ACT P	RC-P445A"2RCS-PY445XA	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0510D	"STSE"	LOOP 1 T AVG DEV	RC-T408K"2RCS-TYH408K	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0115D	"STSE"	RCP SEAL LKOFF T	RC-T448A"2RCS-TR448A	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"T0116D	"STSE"	RCP BRG TEMP	RC-T448A"2RCS-TR448A	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"T0117D	"STSE"	RCP MOTOR BRG T	RC-T448B"2RCS-TR448B	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	NO"
	"T0512D	"STSE"	LOOP 2 T AVG DEV	RC-T408H"2RCS-TYH408H	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0514D	"STSE"	LOOP 3 T AVG DEV	RC-T408P"2RCS-TYH408P	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0507D	"STSE"	T AVG DEV FROM T REF	RC-T408S"2RCS-TYH408S	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0521D	"STSE"	LOOP 1 T AVG	RC-T412E"2RCS-TYH412E	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0522D	"STSE"	LOOP 2 T AVG	RC-T422E"2RCS-TYH422E	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0523D	"STSE"	LOOP 3 T AVG	RC-T432E"2RCS-TYH432E	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0480D	"STSE"	PRZR PORV DISCH T	RC-T-463"2RCS-TYH463	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0483D	"STSE"	PRZR RLF VLV C DISCH T	RC-T-465"2RCS-TYH465	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0482D	"STSE"	PRZR RLF VLV B DISCH T	RC-T-467"2RCS-TYH467	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"
	"T0481D	"STSE"	PRZR RLF VLV A DISCH T	RC-T-469"2RCS-TYH469	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	NO"



1				2									
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR
C	*	*	*	*	CONT	CONT	CON	*	CONT	CONT	*	*	TIME
					OPEN	CLSD	STAT	*	PT. NO.	STAT	*	*	*
0	0	1	2	5	1	2	3	3	4	5	6	6	7
1	4	7	2	5	7	4	1	8	3	6	1	6	1
	IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH
	CCCCCCCCCCCC	CCCC	CC	CCCCCCCCCCCCCCCCCCCC	CCCCCCC	CCCCCCC	CCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCC	CCCC	CCCC	CCCC	CCCCCCCC
"T0511D	"STSE"	LOOP 1 T	AVG DEV	RC-T408L"2RCS-TYL408L	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0513D	"STSE"	LOOP 2 T	AVG DEV	RC-T408N"2RCS-TYL408N	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0515D	"STSE"	LOOP 3 T	AVG DEV	RC-T408R"2RCS-TYL408R	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0508D	"STSE"	T	AVG DEV FROM T REF	RC-T408H"2RCS-TYL408H	"NORM	"LOW	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0518D	"STSE"	LOOP 1 DELTA T	DEV	RC-TY409"2RCS-TY409A/B	"NORM	"HILO	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0519D	"STSE"	LOOP 2 DELTA T	DEV	RC-TY409"2RCS-TY409C/D	"NORM	"HILO	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0520D	"STSE"	LOOP 3 DELTA T	DEV	RC-TY409"2RCS-TY409E/F	"NORM	"HILO	"	ONE"	2"	1"OFF	"ON	"	NO"
"T0516D	"STSE"	LOOP OVER POWER DELTA T	RC-T412 "2RCS-TY412-32	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	"	NO"
"T0517D	"STSE"	LOOP OVER TEMP DELTA T	RC-T412 "2RCS-TY412/32	"NORM	"HIGH	"	ONE"	2"	1"OFF	"ON	"	"	NO"
"F0600D	"STSE"	RHR LOOP A FLOW	RH-F605A"2RHS-FYL605A	"LOW	"NORM	"	ZERO"	1"	1"OFF	"ON	"	"	NO"
"F0601D	"STSE"	RHR LOOP B FLOW	RH-F605B"2RHS-FYL605B	"LOW	"NORM	"	ZERO"	1"	1"OFF	"ON	"	"	NO"
"P0600D	"STSE"	RHR PP A DISCH P	RH-P602A"2RHS-PYH602A	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	"	NO"
"P0601D	"STSE"	RHR PP B DISCH P	RH-P602D"2RHS-PYH602B	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	"	NO"
"L0708D	"STSE"	CIRCUIT SUMP L	RS-L151 "2RSS-LYH151	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	"	NO"
"Y6464D	"STSE"	STA AIR COMP 2SAS-C21A	SA-C21A "2SAS-C21A	"NORM	"TRBL	"	ZERO"	3"	1"OFF	"ON	"	"	NO"
"Y6465D	"STSE"	STA AIR COMP 2SAS-C21B	SA-C21B "2SAS-C21B	"NORM	"TRBL	"	ZERO"	3"	1"OFF	"ON	"	"	NO"
"Y6466D	"STSE"	COND POLISHING AIR COMP	SA-C22 "2SAS-C22	"NORM	"TRBL	"	ZERO"	3"	1"OFF	"ON	"	"	NO"
"L0456D	"STSE"	BLDN HOLD TK 21A L	SG-L103A"2SGC-LYH103A	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	"	"	NO"
"L0457D	"STSE"	BLDN HOLD TK 21A L	SG-L103A"2SGC-LYL103A	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	"	"	NO"
"L0911D	"STSE"	SI ACC TK21A CHN I L	SI-L920B"2SIS-LYL920B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	"	"	NO"

1				2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*THVS	*RLY
/	*NO.	*TYPE		*TAG NO.	*STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*		*	*CONT	*CONT	*CON	*	*CONT	*CONT	*	*	*TIME
	*	*		*	*OPEN	*CLSD	*STAT	*	*PT.NO.	*	*	*	*
0	*0	*1	*2	*5	*1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	*7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	*ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"L09130	"STSE"	SI	ACC TK21A CHN 2 L	SI-L922B"	2SIS-LYL922B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"L09150	"STSE"	SI	ACC TK21B CHN I L	SI-L924B"	2SIS-LYL924B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"L09170	"STSE"	SI	ACC TK21B CHN 2 L	SI-L926B"	2SIS-LYL926B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"L09190	"STSE"	SI	ACC TK21C CHN I L	SI-L928B"	2SIS-LYL928B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"L09210	"STSE"	SI	ACC TK21C CHN 2 L	SI-L930B"	2SIS-LYL930B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09220	"STSE"	BORON	INH HDR P	SI-PH934"	2SIS-PYH934	"NORM	"HIGH	"	ONE"	1"	1"OFF	"ON	" NO"
"P09110	"STSE"	SI	ACC TK21A CHNI P	SI-P921B"	2SIS-PYL921B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09130	"STSE"	SI	ACC TK21A CHNII P	SI-P923B"	2SIS-PYL923B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09150	"STSE"	SI	ACC TK21B CHNI P	SI-P925B"	2SIS-PYL925B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09170	"STSE"	SI	ACC TK21B CHNII P	SI-P927B"	2SIS-PYL927B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09190	"STSE"	SI	ACC TK21C CHNI P	SI-P929B"	2SIS-PYL929B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P09210	"STSE"	SI	ACC TK21C CHNII P	SI-P931B"	2SIS-PYL931B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02010	"STSE"	SERV	HTR B HEADER P	SH-P113B"	2SHS-PLY113B2	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02100	"STSE"	S	M PP A SEAL HTR P	SH-P105A"	2SHS-PS105A	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02110	"STSE"	S	M PP B SEAL HTR P	SH-P105B"	2SHS-PS105B	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02120	"STSE"	S	M PP C SEAL HTR P	SH-P105C"	2SHS-PS105C	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02030	"STSE"	SERV	HTR B HEADER P	SH-P-109"	2SHS-PS109	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02020	"STSE"	SERV	HTR A HEADER P	SH-P-110"	2SHS-PS110	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P02000	"STSE"	SERV	HTR A HEADER P	SH-P113A"	2SHS-PYL113A2	"NORM	"LOW	"	ONE"	1"	1"OFF	"ON	" NO"
"P25020	"STSE"	CONDENSER	VACUUM	TBP631LV"	2THA-PS63-1LV	"NORM	"LOLO	"	ONE"	3"	1"OFF	"ON	" NO"

1			2									
T / NO.	*PT *DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY	
C *	*TYPE*	*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR	
			**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME		
			**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*		
0 *0	*1 *2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7	
1 *4	*7 *2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1	
*IDEN	*P *DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH	
*****												
"P2021D	"STSE" TURB BRG OIL P	L0631LBQ"2THA-PS631LBQ	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"L2030D	"STSE" TURB EH FL RSVR L	TH-L71FL"2THB-LS71FL1	""NORM	"LOLO	"	ONE"	3"	1"OFF	"ON	"	NO"	
"L2033D	"STSE" TURB BRG OIL L (HIGH)	TH-L710L"2THL-LS710L	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"L2034D	"STSE" TURB BRG OIL L (LOW)	TH-L710L"2THL-LS710L	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"P2013D	"STSE" TURB BRG OIL PP RUNNING	LOP63BOR"2THL-PS63BOR	""NOT	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"P2020D	"STSE" EMER DC BRG OIL PP	LOP63EPR"2THL-PS63EPR	""STOP	"RUN	"	ONE"	3"	1"OFF	"ON	"	NO"	
"P2014D	"STSE" HIGH P SEAL OIL BU PP P	LOP63SOB"2THL-PS63SOBR	""NOT	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"L0713D	"STSE" VAC PRI TK 21A L	VP-L102 "2VPS-LS102	""HIGH	"NORM	"	ZERO"	3"	1"OFF	"ON	"	NO"	
"L0302D	"STSE" DEHIN HTR STG TK 211 L	MTL104B1"2HTD-LYH104B1	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"L0303D	"STSE" DEHIN HTR STG TK 211 L	MTL104B1"2HTD-LYL104B1	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"Y2020D	"STSE" GEN OUT OF STEP	221-201 "221-201	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"V2074D	"STSE" BAT 2-1 VOLTAGE	227-2-1 "227-2-1	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"V2076D	"STSE" BAT 2-2 VOLTAGE	227-2-2 "227-2-2	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"V2082D	"STSE" BAT 2-5 VOLTAGE	227-2-5 "227-2-5	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"V2084D	"STSE" BAT 2-6 VOLTAGE	227-2-6 "227-2-6	""NORM	"LOH	"	ONE"	3"	1"OFF	"ON	"	NO"	
"Y3501D	"STSE" DG 2-1 REV POWER	232VE210"232-VE210	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"Y3502D	"STSE" DG 2-2 REV POWER	232VF210"232-VF210	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"Y2030D	"STSE" GEN LOSS OF FLD/LOW EXC	240-1201"240-1201	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"	
"Y2003D	"STSE" MAIN GEN LOSS OF FIELD	240-201 "240-201	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"	
"Y2002D	"STSE" MAIN GEN NEG PH SEQUENCE	246-201 "246-201	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"	

1				2										
T *POINT / *NO.	*PT *TYPE*	*DESCRIPTION	*INSTRUMENT *TAG NO.	** **	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY	
C *	*	*	*	**	*STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR	
				**	*CONT	*CNT	*CON	*	*CONT	*COIT*	*	*TIME		
0 *0	*1	*2	*5	**1	*2	*3	*3	*4			*5	*6	*6	*7
1 *4	*7	*2	*5	**7	*4	*1	*8	*3			*6	*1	*6	*1
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID			*ACSD	*RPTD	*INVD	*RLTH
*****														
"Y2956D	"STSE"	DG 2-1 OVERCURRENT	250VE210"250-VE210	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2981D	"STSE"	DG 2-2 OVERCURRENT	250VF210"250-VF210	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2006D	"STSE"	MAIN GEN GND OVERCURRENT	250-201G"250-201G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2820D	"STSE"	USST 2C GND OVERCURRENT	2511206G"251-1206G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2825D	"STSE"	USST 2D GND OVERCURRENT	2511207G"251-1207G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2870D	"STSE"	SSS TFHR 2A GND OC	2511208G"251-1208G	""	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2883D	"STSE"	SSS TFHR 2B GND OC	2511209G"251-1209G	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2804D	"STSE"	MAIN GEN GND INST OVRCUR	251-201G"251-201G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2821D	"STSE"	USST 2C OVERCURRENT	251-206 "251-206	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2819D	"STSE"	USST 2C GND OVERCURRENT	251-206G"251-206G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2826D	"STSE"	USST 2D OVERCURRENT	251-207 "251-207	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2824D	"STSE"	USST 2D GND OVERCURRENT	251-207G"251-207G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2871D	"STSE"	SSS TFHR 2A PHASE OC	251-208 "251-208	""	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2869D	"STSE"	SSS TFHR 2A GND OC	251-208G"251-208G	""	"NORM	"TRIP	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2884D	"STSE"	SSS TFHR 2B PHASE OC	251-209 "251-209	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2882D	"STSE"	SSS TFHR 2B GND OC	251-209G"251-209G	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2832D	"STSE"	GEN GROUND OVERCURRENT	2591201G"259-1201G	""	"NORM	"ALRM	"	ONE"	3"		1"OFF	"ON	"	NO"
"Y2812D	"STSE"	GEN OVEREXC. V/HZ PRI	259-201 "259-201	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2805D	"STSE"	MAIN GEN GND OVERCURRENT	259-201G"259-201G	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"
"Y2816D	"STSE"	MAIN TFHR OVEREXC. V/HZ	259-202 "259-202	""	"NORM	"TRIP	"	ONE"	2"		1"OFF	"ON	"	NO"



1						2							
T / NO.	*POINT / *NO.	*PT *TYPE*	*DESCRIPTION *TAG NO.	*INSTRUMENT *TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRH	*ALRH	*CHG	*INVS	*RLY
C *	*	*	*	*	**STAT	*STAT	*ON	*NO.	*CUT	*CONT	*TIME		
0 *0	*1	*2		*5	**CON	*CON	*CON	*	*CON	*STAT*	*	*	
1 *4	*7	*2		*5	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT*	*	*	
*IDEN	*P	*DESC		*SIT	**ZSDS	*GSDS	*ALDO	*ALPR	*ACIO	*ACSD	*RPTD	*INVD	*RLTI
*****													
"Y2053D	"STSE"	HAIN TFHR	259-202G	"259-202G	""NORM	"GND	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2069D	"STSE"	GEN OVEREXC. V/HZ	259-203	"259-203	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2010D	"STSE"	USST 2C OVEREXC V/HZ	259-206	"259-206	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2023D	"STSE"	USST 2D OVEREXC. V/HX	259-207	"259-207	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2060D	"STSE"	SSS TFHR 2A OVEREXC	259-208	"259-208	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2081D	"STSE"	SSS TFHR 2B OVEREXC	259-209	"259-209	""NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2043D	"STSE"	VOLT REG CONT CKT POWER	27-EXVNA	"27-EXVIA	""ON	"OFF	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2057D	"STSE"	480V E BUS 2P VOLT	27RP200X	"27-RP200X	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2933D	"STSE"	4KV BUS 2A VOLTAGE	27-A1200	"27-VA1200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2906D	"STSE"	4KV BUS 2A VOLTAGE	27VA200X	"27-VA200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2934D	"STSE"	4KV BUS 2B VOLTAGE	27-B1200	"27-VB1200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2907D	"STSE"	4KV BUS 2B VOLTAGE	27VB200X	"27-VB200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2935D	"STSE"	4KV BUS 2C VOLTAGE	27-C1200	"27-VC1200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2908D	"STSE"	4KV BUS 2C VOLTAGE	27VC200X	"27-VC200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2936D	"STSE"	4KV BUS 2D VOLTAGE	27-D1200	"27-VD1200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2040D	"STSE"	4KV BUS 2D VOLTAGE	27VD200X	"27-VD200X2	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2045D	"STSE"	4KV E BUS 2AE VOLTAGE	27-VE200	"27-VE200X	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2046D	"STSE"	4KV E BUS 2AE VOLTAGE	27VE2200	"27-VE2200X	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"V2040D	"STSE"	4KV E BUS 2DF VOLTAGE	27-VF200	"27-VF200X	""NORM	"LOW	"	ONE"	3"	1"OFF	"ON	"	NO"
"F2001D	"STSE"	HAIN LEADS COOLING FLOW	27-1	"27-1 TDC	""NORM	"TRBL	"	ONE"	3"	1"OFF	"ON	"	NO"



1				2							
T / C	*POINT / *NO.	*PT *TYPE*	*DESCRIPTION	*INSTRUMENT TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*RLY
					**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT*SPEC*CORR
					**CONT	*CONT	*CON	*	*CONT	*CONT*	*TIME
					**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT*	* * *
					**#1	*#2	#3	#3	#4	*#5	*#6
					**#7	*#4	#1	#8	#3	*#6	*#1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD*RPTD	*INVD*RLTH
	*****										
"V2855D	"STSE"	400V EMER BUS 2N VOLT	27RH200X"27RN200X	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON	" NO"
"V2849D	"STSE"	4KV E BUS 2DF VOLTAGE	27VF2200"27VF2200X	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON	" NO
"Y2807D	"STSE"	MAIN GEN OVEREXCITATION	276-201 "276-201	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2940D	"STSE"	BUS 2AE LEADS DIFF	287VE207"287-VE207	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2955D	"STSE"	DG 2-1 DIFFERENTIAL	287VE210"287-VE210	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2941D	"STSE"	BUS 2DF LEADS DIFF	287VF207"287-VF207	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2980D	"STSE"	DG 2-2 DIFFERENTIAL	287VF210"287-VF210	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2801D	"STSE"	MAIN GEN DIFFERENTIAL	287-201 "287-201	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2815D	"STSE"	MAIN TFMR DIFFERENTIAL	287-202 "287-202	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2808D	"STSE"	MAIN TFMR OVERALL DIFF	287-203 "287-203	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2811D	"STSE"	MAIN TFMR LEADS PROTECT	287-204 "287-204	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2810D	"STSE"	MAIN GEN LEADS PROTECT	287-205 "287-205	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2817D	"STSE"	USST 2C DIFFERENTIAL	287-206 "287-206	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2822D	"STSE"	USST 2D DIFFERENTIAL	287-207 "287-207	"NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	" NO"
"Y2867D	"STSE"	SSS TFMR 2A DIFF	287-208 "287-208	"NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2880D	"STSE"	SSS TFMR 2B DIFFERENTIAL	287-209 "287-209	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"L2812D	"STSE"	DG 2-1 LUBE OIL L	30-10 "30-10	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON	" NO"
"L2818D	"STSE"	DG 2-2 LUBE OIL L	30-10 "30-10	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2966D	"STSE"	DG 2-1 START FAILURE	DG ANN "30-13	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"
"Y2991D	"STSE"	DG 2-2 START FAILURE	DG ANN "30-13	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON	" NO"

1				2							
T *POINT / *NO.	*PT *TYPE	*DESCRIPTION	*INSTRUMENT *TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*RLY	
C *	* *	* *	* *	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT*SPEC*CORR	
0 *0	*1	*2	*5	**CONT	*CONT	*CON	* *	*CONT	*CONT*	* * *TIME	
1 *4	*7	*2	*5	**OPEN	*CLSD	*STAT	* *	*PT.NO.	*STAT*	* * *	
*IDEN	*P	*DESC	*SIT	**1	*2	*3	*3	*4	*5	*6 *6 *7	
				**7	*4	*1	*8	*3	*6	*1 *6 *1	
				**ZSDS	*OSDS	*ALDD	*ALPR*ACID		*ACSD*RPD*	*INVD*RLTH	
"L2814D	"STSE"	DG 2-1 LUBE OIL L	30-18 "30-18	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"L2820D	"STSE"	DG 2-2 LUBE OIL L	30-18 "30-18	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"T2818D	"STSE"	DG 2-1 LUBE OIL T	30-19 "30-19	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"T2822D	"STSE"	DG 2-2 LUBE OIL T	30-19 "30-19	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"V2851D	"STSE"	DG 2-1 CONT CIRCUIT	30-21 "30-21	"NORM	"FAIL	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2994D	"STSE"	DG 2-2 CONT CIRCUIT	DG ANN "30-21	"NORM	"FAIL	"	ONE"	3"	1"OFF	"ON " NO"	
C1"T2820D	"STSE"	DG 2-1 JACKET COOL MTR	30-28 "30-28	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"T2824D	"STSE"	DG 2-2 JACKET CH T	30-28 "30-28	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2975D	"STSE"	DG 2-1 AUTO	DG ANN "30-29	"NORM	"START	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2976D	"STSE"	DG 2-2 AUTO	DG ANN "30-29	"NORM	"START	"	ONE"	3"	1"OFF	"ON " NO"	
"L2809D	"STSE"	DG 2-1 JACKET COOL L	30-4 "30-4	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"	
"L2815D	"STSE"	DG 2-2 JACKET COOL L	30-4 "30-4	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2962D	"STSE"	DG 2-1 ENGINE OVSPEED	DG ANN "30-5	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2987D	"STSE"	DG 2-2 ENGINE OVERSPEED	DG ANN "30-5	"NORM	"ALRM	"	ONE"	3"	1"OFF	"ON " NO"	
"L2810D	"STSE"	DG 2-1 ROCK ARM OIL L	30-6 "30-6	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"L2816D	"STSE"	DG 2-2 ROCK ARM OIL L	30-6 "30-6	"NORM	"HIGH	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2964D	"STSE"	DG 2-1 EXC FIELD BKR	DG ANN "30-7	"CLOSE	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"Y2989D	"STSE"	DG 2-2 FIELD BKR	DG ANN "30-7	"CLOSE	"OPEN	"	ONE"	3"	1"OFF	"ON " NO"	
"L2811D	"STSE"	DG 2-1 FUEL OIL L	30-9 "30-9	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"	
"L2817D	"STSE"	DG 2-2 FUEL OIL L	30-9 "30-9	"NORM	"LOW	"	ONE"	3"	1"OFF	"ON " NO"	

1			2							
T *POINT / *NO.	*PT *DESCRIPTION *TYPE*	*INSTRUMENT *TAG NO.	**DEV **STAT **CONT **OPEN **1 **7 **ZSDS	*DEV *STAT *CONT *CLSD *2 *4 *OSDS	*ALRM *ON *CON *STAT *3 *1 *ALDD	*CRT *NO. *CUT *PT.NO. *3 *8 *ALPR	*ALRM *CHG *INVS *RLY *CUT *STAT *SPEC *CORR *CONT *TIME *5 *6 *6 *7 *6 *1 *6 *1 *ACSD *RPTD *INVD *RLTH	*ALRM *CHG *INVS *RLY *CUT *STAT *SPEC *CORR *CONT *TIME *5 *6 *6 *7 *6 *1 *6 *1 *ACSD *RPTD *INVD *RLTH		
C9"Y3429D	"STSE"PRI PROC CAB 1 DOOR	33-CENCX"33-CESNCX	""CLSD	"OPEN	"	ONE"	1"	1"OFF "ON " NO"		
"Y3430D	"STSE"PRI PROC CAB 2 DOOR	33CENCX1"33-CESNCX1	""CLSD	"OPEN	"	ONE"	1"	1"OFF "ON " NO"		
"Y3431D	"STSE"PRI PROC CAB 3 DOOR	33CENCX2"33-CESNCX2	""CLSD	"OPEN	"	ONE"	1"	1"OFF "ON " NO"		
"Y3432D	"STSE"PRI PROC CAB 4 DOOR	33CENCX3"33-CESNCX3	""CLSD	"OPEN	"	ONE"	1"	1"OFF "ON " NO"		
"Y2044D	"STSE"MAN TURB TRIP AT TURB	33-HT "33-HT	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		
"Y2986D	"STSE"DG 2-2 EXCITER FIELD	40VF210X"40-VF210X	""NORM	"LOW	"	ONE"	3"	1"OFF "ON " NO"		
C1"Y2831D	"STSE"EXCITER FIELD BKR AUTO	41XEXSHA"41XX-EXSHA	""NORM	"TRIP	"	ONE"	3"	1"OFF "ON " NO"		
"Y3433D	"STSE"MAIN EXCITATION ACB	41XXEXHA"41XX-EXSHA	""CLSD	"OPEN	"	ONE"	3"	1"OFF "ON " NO"		
"Y0310D	"STSE"OVHD GAS CHPR C21A AUTO	42-GHSAA"42-GHSAA	""OFF	"ON	"	ONE"	1"	1"OFF "ON " NO"		
"Y0311D	"STSE"OVHD GAS CHPR C21B AUTO	42-GHSBA"42-GHSBA	""OFF	"ON	"	ONE"	1"	1"OFF "ON " NO"		
"Y3096D	"STSE"CONT BLDG EXH FAN 265A	42-HVCAB"42-HVCAB	""NORM	"ST/S	"	ONE"	2"	1"OFF "ON " NO"		
"Y3105D	"STSE"CONT RH A/C UNIT 201A	42-HCACX"42-HVCACX	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		
"Y3105D	"STSE"CONT RE E SUP 2 FANS	42HVADX1"42-HVCADX1	""NORM	"ALRM	"	ONE"	2"	1"OFF "ON " NO"		
"Y3099D	"STSE"CONT RH EMER SUP FN241A	42HVADX2"42-HVCADX2	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		
"Y3097D	"STSE"CONT BLDG EXH FAN 265B	42-HVCBB"42-HVCBB	""NORM	"ST/S	"	ONE"	2"	1"OFF "ON " NO"		
"Y3098D	"STSE"CONT RH A/C UNIT 201B	42HVCBCX"42-HVCBCX	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		
"Y3100D	"STSE"CONT RH EMER SUP FN241B	42HVBDX2"42-HVCBDX2	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		
"Y3094D	"STSE"AUX BLDG EMER EXH FN OIL42	42-HVPAC"42-HVPAC	""NORM	"ALRM	"	ONE"	2"	1"OFF "ON " NO"		
"Y3095D	"STSE"AUX BLDG EMER EXH FN OIL42	42-HVPBC"42-HVPBC	""NORM	"ALRM	"	ONE"	2"	1"OFF "ON " NO"		
"Y3087D	"STSE"LK COLL NORM EXH FN	42-HVSNA"42-HVSNA	""NORM	"TRIP	"	ONE"	2"	1"OFF "ON " NO"		

1			2									
T *POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/ *NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C *	*	*	*	**COHT	*CONT	*CON	*	*CONT	*CCHT	*	*TIME	
	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	
0 *0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
1 *4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
*****												
"Y30080	"STSE"	LK COLL NORM EXH FN	42-HVSHD"42-HVSHB	""NORM	"TRIP	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y20470	"STSE"	MAIN TMR GAS COMBUST	45 "45	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20540	"STSE"	400V BUS 2N PT FUSE	46-RN200"46-RN200	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20560	"STSE"	400V BUS 2P PT FUSE	46-RP200"46-RP200	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20470	"STSE"	4KV E BUS 2AE PT FUSE	46-VE200"46-VE200	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20500	"STSE"	4KV E BUS 2DF PT FUSE	46-VF200"46-VF200	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20520	"STSE"	DG 2-1 PT FUSE	46-VF201"46-VF201	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20530	"STSE"	DG 2-2 PT FUSE	46-VF210"46-VF210	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V29020	"STSE"	USS XFMR 2D PT FUSE	46-V207 "46-V207	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20250	"STSE"	SSS TMR 2A PT FUSE	46-V208 "46-V208	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"V20260	"STSE"	SSS TMR 2B PT FUSE	46-V209 "46-V209	""NORM	"BLWN	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05330	"STSE"	SG FD PP HOT A1 T	49-VA201"49-VA201	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05300	"STSE"	RCP 21A HOT T	49-VA206"49-VA206	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05400	"STSE"	CLG TMR PP A HOT T	49-VA208"49-VA208	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05340	"STSE"	SG FD PP HOT A2 T	49-VB201"49-VB201	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05370	"STSE"	COND P21 A HOT T	49-VB202"49-VB202	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05310	"STSE"	RCP 21B HOT T	49-VB206"49-VB206	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05410	"STSE"	CLG TMR PP B HOT T	49-VB208"49-VB208	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05350	"STSE"	SG FD PP HOT B1 T	49-VC201"49-VC201	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"
"T05380	"STSE"	COND P21 B HOT T	49-VC202"49-VC202	""NORM	"HIGH	"	ONE"	3"	1"OFF	"ON	"	NO"



1					2										
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR		
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME			
					**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*			
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7		
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1		
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH		
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"	T0532D	"	STSE"RCP 21C HOT T	49-VC206"	49-VC206	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T0542D	"	STSE"CLG THR PP C HOT T	49-VC208"	49-VC208	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T0536D	"	STSE"SG FD PP HOT B2 T	49-VD201"	49-VD201	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T0539D	"	STSE"COND P21 C HOT T	49-VD202"	49-VD202	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T0543D	"	STSE"CLG THR PP D HOT T	49-VD208"	49-VD208	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T2800D	"	STSE"MAIN TFHR HOT SPOT T	49-202SX"	49-202SX	"	"NORM	"	HIGH	"	ONE"	3"	1"	OFF	"ON " NO"
"	T2801D	"	STSE"MAIN TFHR HOT SPOT T	49-202TX"	49-202TX	"	"NORM	"	HIHI	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2942D	"	STSE"BUS 2AE SP ACB REV OC	50VE207	"50-VE207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2943D	"	STSE"BUS 2DF SP ACB REV OC	50VF207	"50-VF207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y5764D	"	STSE"4KV PP HOT OVERCURRENT	50/51	"50/51	"	"NORM	"	TRIP	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2926D	"	STSE"4KV BUS 2A ACB 42A OC	51VA204X"	51-VA204X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2902D	"	STSE"4KV BUS 2A ACB 42C OC	51-VA207"	51-VA207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2927D	"	STSE"4KV BUS 2B ACB 142A OC	51VB204X"	51-VB204X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2903D	"	STSE"4KV BUS 2B ACB 142C OC	51-VB207"	51-VB207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2904D	"	STSE"4KV BUS 2C ACB 242D OC	51-VC204X"	51-VC204X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2928D	"	STSE"4KV BUS 2C ACB 242B OC	51VC207X"	51-VC207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2905D	"	STSE"4KV BUS 2D ACB 342D OC	51-VD204X"	51-VD204X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2930D	"	STSE"4KV BUS 2D ACB 342B OC	51VD207X"	51-VD207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2938D	"	STSE"BUS 2AE ACB2E7 OC	51VE207X"	51-VE207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"
"	Y2954D	"	STSE"BUS 2DF FDR ACB 2F7 OC	51VF207X"	51-VF207X	"	"NORM	"	ALRM	"	ONE"	3"	1"	OFF	"ON " NO"



1					2									
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY	
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*CH	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR	
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME		
	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*	
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7	
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1	
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH	
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
"Y34600	"STSE"	BAT	BKR 2-1	52-BYSAA"	52-BYSAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34610	"STSE"	BAT	BKR 2-2	52-BYSBA"	52-BYSBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34640	"STSE"	BAT	BKR 2-5	52-BYSHA"	52-BYSHA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34650	"STSE"	BAT	BKR 2-6	52-BYSIB"	52-BYSIB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34780	"STSE"	COMP	COOL P21A HOT BKR	52-CCPAA"	52-CCPAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34820	"STSE"	COMP	COOL P21B HOT BKR	52-CCPBA"	52-CCPBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
C1"Y34830	"STSE"	COMP	COOL P21C HOT BKR	A52-CCPCA"	52-CCPCA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
C1"Y34790	"STSE"	COMP	COOL P21C HOT BKR	B52-CCPCB"	52-CCPCB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34740	"STSE"	SEC	COMP CLG PP21A BKR	52-CCSAA"	52-CCSAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34750	"STSE"	SEC	COMP CLG PP21B BKR	52-CCSBA"	52-CCSBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34880	"STSE"	CHILLER	CIRC PP A HOT	52-CDSAB"	52-CDSAB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34890	"STSE"	CHILLER	CIRC PP B HOT	52-CDSBB"	52-CDSBB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34730	"STSE"	A/C	COMP CHL23C HOT BKR	52-COSCA"	52-COSCA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34900	"STSE"	CHILLER	CIRC PP C HOT	52-COSCB"	52-COSCB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y34170	"STSE"	CHG	PP21A HOT BKR	52-CHSAA"	52-CHSAA	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF "ON " NO"	
"Y34180	"STSE"	CHG	PP21B HOT BKR	52-CHSBA"	52-CHSBA	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF "ON " NO"	
"Y34190	"STSE"	CHG	PP21C HOT BKR A	52-CHSCA"	52-CHSCA	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF "ON " NO"	
"Y34200	"STSE"	CHG	PP21C HOT BKR B	52-CHSCB"	52-CHSCB	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF "ON " NO"	
"Y25060	"STSE"	COND	PP21A HOT BKR	52-CMIAA"	52-CMIAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	
"Y25070	"STSE"	COND	PP21B HOT BKR	52-CMIBA"	52-CMIBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF "ON " NO"	

1				2										
T	POINT	PT	DESCRIPTION	INSTRUMENT	DEV	DEV	ALRM	CRT	ALRM	ALRM	CHG	INVS	RLY	
/	NO.	TYPE		TAG NO.	STAT	STAT	ON	NO.	CUT	CUT	STAT	SPEC	CORR	
C	*	*	*	*	CONT	CONT	CON	*	CONT	CONT	*	*	TIME	
	*	*	*	*	OPEN	CLSD	STAT	*	PT.NO.	STAT	*	*	*	
0	*0	*1	*2	*5	*1	*2	*3	*3	*4	*5	*6	*6	*7	
1	*4	*7	*2	*5	*7	*4	*1	*8	*3	*6	*1	*6	*1	
	IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACID	ACSD	RPTD	INVD	RLTH	
	CCCCCCCCCCCC	CCCC	CC	CCCCCCCCCCCCCCCCCCCC	CCCCCCCC	CCCCCC	CCCCCCCC	CCCCCCCC	CCCCCCCC	CCCCCCCC	CCCC	CCCC	CCCC	
"Y2508D	"STSE"	COMD	PP21C HOT BKR	52-CHMCA"52-CHMCA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2415D	"STSE"	CLG	T1R PP21A HOT BKR	52-CHSAA"52-CHSAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2425D	"STSE"	CLG	T1R PP21B HOT BKR	52-CHSBA"52-CHSBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2435D	"STSE"	CLG	T1R PP21C HOT BKR	52-CHSCA"52-CHSCA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2445D	"STSE"	CLG	T1R PP21D HOT BKR	52-CHSDA"52-CHSDA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3457D	"STSE"	EH	D-G ACB 2E10	52-EGPAA"52-EGPAA	""	CLSD	"TRIP	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3458D	"STSE"	EH	D-G ACB 2F10	52-EGPBA"52-EGPBA	""	CLSD	"TRIP	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3504D	"STSE"	480V	EH	BUS 2N SUP	52-EJSAG"52-EJSAG	""	NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON " NO"
"Y3447D	"STSE"	4KV	BUS 2AE ACB 2E7	52-ENSAC"52-ENSAC	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3448D	"STSE"	4KV	BUS 2DF ACB 2F7	52-ENSBC"52-ENSBC	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3476D	"STSE"	SG	AUX FD P23A HOT BKR	52-FHEAA"52-FHEAA	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF	"ON " NO"	
"Y3477D	"STSE"	SG	AUX FD P23B HOT BKR	52-FHEBA"52-FHEBA	""	CLSD	"OPEN	"	ZERO"	0"	1"	OFF	"ON " NO"	
"Y2320D	"STSE"	SG	FH PP21A1 HOT BKR	52-FNSAA"52-FNSAA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2322D	"STSE"	SG	FH PP21A2 HOT BKR	52-FNSAB"52-FNSAB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2380D	"STSE"	SG	FH PP21B1 HOT BKR	52-FHSBA"52-FHSBA	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y2382D	"STSE"	SG	FH PP21B2 HOT BKR	52-FHSBB"52-FHSBB	""	CLSD	"OPEN	"	ONE"	0"	1"	OFF	"ON " NO"	
"Y3089D	"STSE"	LK	COLL FILT EXH FN	52-HVSA"52-HVSA	""	NORM	"TRIP	"	ONE"	2"	1"	OFF	"ON " NO"	
"Y3090D	"STSE"	LK	COLL FILT EXH FN	52-HVSB"52-HVSB	""	NORM	"TRIP	"	ONE"	2"	1"	OFF	"ON " NO"	
"Y3112D	"STSE"	EH	SHGR EXH FN 262A	52-HVZAA"52-HVZAA	""	NORM	"ST/S	"	ONE"	2"	1"	OFF	"ON " NO"	
"Y3110D	"STSE"	EH	SHGR SUP FN 261A	52-HVZAB"52-HVZAB	""	NORM	"ST/S	"	ONE"	2"	1"	OFF	"ON " NO"	

1			2									
T *POINT	*PT	*DESCRIPTION	*INSTRUMENT	*DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/ *NO.	*TYPE		*TAG NO.	*STAT	*STAT	*CH	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C *	*	*	*	*CONT	*CONT	*CON	*	*CONT	*CONT	*STAT	*	*TIME
	*	*	*	*OPEN	*CLSD	*STAT	*	*PT.NO.		*STAT	*	*
0 *0	*1	*2	*5	*1	*2	*3	*3	*4		*5	*6	*7
1 *4	*7	*2	*5	*7	*4	*1	*8	*3		*6	*1	*6
*IDEN	*P	*DESC	*SIT	*ZSDS	*OSDS	*ALDD	*ALPR	*ACID		*ACSD	*RPTD	*INVD
*****												
"Y3113D	"STSE"	"EHER SNGR EXH FN 262B	52-HVZBA"	"52-HVZBA	"	"NORM	"ST/S	"	ONE"	2"	1"OFF	"ON
"Y3111D	"STSE"	"EHER SNGR SUP FN 261B	52-HVZBB"	"52-HVZBB	"	"NORM	"ST/S	"	ONE"	2"	1"OFF	"ON
"Y3438D	"STSE"	"4KV BUS 2A ACB 42A	52-NHSAA"	"52-NHSAA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3437D	"STSE"	"4KV BUS 2A ACB 42C	52-NHSAB"	"52-NHSAB	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3445D	"STSE"	"4KV BUS 2A ACB 2A10	52-NHSAC"	"52-NHSAC	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3440D	"STSE"	"4KV BUS 2B ACB 142A	52-NHSBA"	"52-NHSBA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3439D	"STSE"	"4KV BUS 2B ACB 142C	52-NHSBB"	"52-NHSBB	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3442D	"STSE"	"4KV BUS 2C ACB 242B	52-NHSCA"	"52-NHSCA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3441D	"STSE"	"4KV BUS 2C ACB 242D	52-NHSCB"	"52-NHSCB	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3444D	"STSE"	"4KV BUS 2D ACB 342B	52-NHSDA"	"52-NHSDA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3443D	"STSE"	"4KV BUS 2D ACB 342D	52-NHSDB"	"52-NHSDB	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3446D	"STSE"	"4KV BUS 2D ACB 2D10	52-NHSDC"	"52-NHSDC	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3411D	"STSE"	"QUENCH SPR PP21A HOT BKR	52-QSSAA"	"52-QSSAA	"	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON
"Y3412D	"STSE"	"QUENCH SPR PP21B HOT BKR	52-QSSBA"	"52-QSSBA	"	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON
"Y3421D	"STSE"	"RX CLHT P21A HOT BKR	52-RCSAA"	"52-RCSAA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3422D	"STSE"	"RX CLHT P21B HOT BKR	52-RCSBA"	"52-RCSBA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3423D	"STSE"	"RX CLHT P21C HOT BKR	52-RSCSA"	"52-RSCSA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3427D	"STSE"	"ROD PHR HG-21 HOT BKR	52-RDSAA"	"52-RDSAA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3428D	"STSE"	"ROD PHR HG-22 HOT BKR	52-RDSBA"	"52-RDSBA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON
"Y3413D	"STSE"	"RHR PP21A HOT BKR	52-RHSAA"	"52-RHSAA	"	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON

1				2								
T *POINT / *NO.	*PT *TYPE*	*DESCRIPTION	*INSTRUMENT *TAG NO.	**DEV **STAT **CONT **OPEN **1 **7 **ZSDS	*DEV *STAT *CONT *CLSD *2 *4 *OSDS	*ALRM *ON *CON *STAT *3 *1 *ALDD	*CRT *NO. *CUT *PT.NO. *3 *8 *ALPR	*ALRM *CHG *INVS *RLY *CUT *STAT *SPEC *CORR *CONT *TIME *5 *6 *6 *1 *ACSD *RPTD *INVD *RLTH	*ALRM *CHG *INVS *RLY *CUT *STAT *SPEC *CORR *CONT *TIME *5 *6 *6 *1 *ACSD *RPTD *INVD *RLTH			
"Y3414D	"STSE"	RHR PP21B HOT BKR	52-RHSBA"52-RHSBA	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON	"	NO"
"Y3403D	"STSE"	RECIRC SPR PP21A HOT BKR	52-RSSAA"52-RSSAA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3404D	"STSE"	RECIRC SPR PP21B HOT BKR	52-RSSBA"52-RSSBA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3405D	"STSE"	RECIRC SPR PP21C HOT BKR	52-RSSCA"52-RSSCA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3406D	"STSE"	RECIRC SPR PP21D HOT BKR	52-RSSDA"52-RSSDA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y0006D	"STSE"	TX TRIP BKR A	52-RTA "52-RTA	"TRIP	"CLSD	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y0007D	"STSE"	RX TRIP BKR B	52-RTB "52-RTB	"TRIP	"CLSD	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3486D	"STSE"	STA AIR C21A HOT BKR	52-SASAA"52-SASAA	"CLSD	"OPEN	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3487D	"STSE"	STA AIR C21B HOT BKR	52-SASBA"52-SASBA	"CLSD	"OPEN	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y6463D	"STSE"	COND POLISHING AIR COMP	52-SANB "52-SANB	"CLSD	"OPEN	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y3401D	"STSE"	LO HD SI PP21A HOT BKR	52-SISAA"52-SISAA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3402D	"STSE"	LO HD SI PP21B HOT BKR	52-SISBA"52-SISBA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3415D	"STSE"	STDBY SERV HTR HOT BKR	52-SHEAA"52-SHEAA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3416D	"STSE"	STDBY SERV HTR HOT BKR	52-SHEBA"52-SHEBA	"CLSD	"OPEN	"	ZERO"	0"	1"OFF	"ON	"	NO"
"Y3407D	"STSE"	SERV HTR PP21A HOT BKR	52-SHSAA"52-SHSAA	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON	"	NO"
"Y3408D	"STSE"	SERV HTR PP21B HOT BKR	52-SHSBA"52-SHSBA	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON	"	NO"
"Y3409D	"STSE"	SERV HTR PP21C HOT BKR	52-SHSCA"52-SHSCA	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON	"	NO"
"Y3410D	"STSE"	SERV HTR PP21D HOT BKR	52-SHSCB"52-SHSCB	"CLSD	"OPEN	"	ONE"	0"	1"OFF	"ON	"	NO"
"Y0816D	"STSE"	VAC PRI PP A OC	52-VPSAA"52-VPSAA	"TRIP	"NORM	"	ZERO"	3"	1"OFF	"ON	"	NO"
"Y0817D	"STSE"	VAC PRI PP B OC	52-VPSBA"52-VPSBA	"TRIP	"NORM	"	ZERO"	3"	1"OFF	"ON	"	NO"



[illegible]



1			2						
T *POINT / *NO.	*PT *DESCRIPTION *TYPE*	*INSTRUMENT *TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM*CHG	*INVS*RLY
C *	* *	*	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT*SPEC*CORR
0 *0	*1 *2	*5	**CONT	*CONT	*CON	*	*CONT	*CONT*	* * *TIME
1 *4	*7 *2	*5	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT*	* * *
*IDEN	*P *DESC	*SIT	**1	*2	*3	*3	*4	*5	*6 *6 *7
			**7	*4	*1	*8	*3	*6	*1 *6 *1
			**ZSDS	*OSDS	*ALDD	*ALPR*ACID		*ACSD	*RPTD*INVD*RLTH
"Y2896D	"STSE"USS TFIR 2C SUDDEN P	63-206X "63-206X	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2897D	"STSE"USS TFIR 2D SUDDEN P	63-207X "63-207X	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2898D	"STSE"SSS TFIR 2A SUDDEN P	63-208X "63-208X	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2899D	"STSE"SSS TFIR 2B SUDDEN P	63-209X "63-209X	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2959D	"STSE"DG 2-1 EXCITER GND OC	64-VE210"64-VE210	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2960D	"STSE"DG 2-2 EXCITER GND OC	64VF210 "64-VF210	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y2835D	"STSE"MAIN GEN EXCITER GROUND	64X "64X	""NORM	"ALRM	"	ONE	3"	1"OFF	"ON " NO"
"Y0312D	"STSE"OVHD GAS CHPR C21A VIB	69-GHSA"69-GHSAAX	""NORM	"HIGH	"	ONE	1"	1"OFF	"ON " NO"
"Y0314D	"STSE"GAS CHPR C21A DIAPHRAGH	69GHSA2"69-GHSAAX2	""NORM	"HIGH	"	ONE	1"	1"OFF	"ON " NO"
"L0310D	"STSE"GAS CHPR C21A LUB OIL L	69-GHAA5"69-GHSAAX5	""NORM	"LOW	"	ONE	1"	1"OFF	"ON " NO"
"Y0313D	"STSE"OVHD GAS CHPR C21B VIB	69-GHSA"69-GHSDAX	""NORM	"HIGH	"	ONE	1"	1"OFF	"ON " NO"
"Y0315D	"STSE"GAS CHPR C21B DIAPHRAGH	69GHSA2"69-GHSDAX2	""NORM	"HIGH	"	ONE	1"	1"OFF	"ON " NO"
"L0311D	"STSE"GAS CHPR C21B LUB OIL L	69-GHBA5"69-GHSDAX5	""NORM	"LOW	"	ONE	1"	1"OFF	"ON " NO"
"L0417D	"STSE"4TH PT FW HTR 24A L	71-BDGA"71-BDGA	""NORM	"HIGH	"	ONE	3"	1"OFF	"ON " NO"
"L0419D	"STSE"4TH PT FW HTR 24B L	71BDGNAX"71-BDGNAX	""NORM	"HIGH	"	ONE	3"	1"OFF	"ON " NO"
"L0500D	"STSE"RCPA BRG LUBE OIL L	71-RCAAX"71-RCSAAX	""NORM	"LOW	"	ONE	1"	1"OFF	"ON " NO"
"L0501D	"STSE"RCPB BRG LUBE OIL L	71-RCBAX"71-RCSBAX	""NORM	"LOW	"	ONE	1"	1"OFF	"ON " NO"
"L0502D	"STSE"RCPC BRG LUBE OIL L	71-RCCAX"71-RSCAX	""NORM	"LOW	"	ONE	1"	1"OFF	"ON " NO"
"L2400D	"STSE"MAIN TFIR OIL L	71QX "71QX	""NORM	"LOW	"	ONE	3"	1"OFF	"ON " NO"
"L2805D	"STSE"SSS TFIR 2A OIL L	71X/1 "71X/1	""NORM	"LOW	"	ONE	3"	1"OFF	"ON " NO"



1				2								
T *POINT / *NO.	*PT C *	*DESCRIPTION *	*INSTRUMENT TAG NO.	** **DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
	*TYPE			**STAT	*STAT	*CON	*NO.	*CUT	*CUT	*STAT	*SPEC	*COPR
				**CONT	*CONT	*CON	*	*CNT	*CONT	*	*TIME	*
				**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
0 *0	*1	*2	*S	**1	*2	*3	*3	*4	*5	*6	*6	*7
1 *4	*7	*2	*S	**7	*4	*1	*8	*3	*6	*1	*6	*1
*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*EPTD	*INVD	*RLTH
*****				*****								
"V0139D	"STSE"	NIS II IR COMPEN VOLT	74-NC36H"74-NC36HX	""NORM	"FAIL	"	ONE"	2"	1"OFF	"ON	"	NO"
"Y2912D	"STSE"	BUS 2A SUP ACB 42A TC1	74NISAA1"74-NISAAAX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2913D	"STSE"	BUS 2A SUP ACB 42A TC2	74NISAA2"74-NISAAAX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2910D	"STSE"	BUS 2A SUP ACB 42C TC1	74NISAB1"74-NISABX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2906D	"STSE"	4KV BUS 2A A TFR TO SSS	74NISAB1"74-NISABX1/2	""NORM	"TFR	"	ZERO"	3"	1"OFF	"ON	"	NO"
"Y2911D	"STSE"	BUS 2A SUP ACB 42C TC2	74NISAB2"74-NISABX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2916D	"STSE"	BUS 2B SUP ACB 142A TC1	74NISBA1"74-NISBAX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2917D	"STSE"	BUS 2B SUP ACB 142A TC2	74NISBA2"74-NISBAX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2914D	"STSE"	BUS 2B SUP ACB 142C TC1	74NISBB1"74-NISBBX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"CN	"	NO"
"Y2907D	"STSE"	4KV BUS 2B A TFR TO SSS	74NISBB1"74-NISBBX1/2	""NORM	"TFR	"	ZERO"	3"	1"OFF	"ON	"	NO"
"Y2915D	"STSE"	BUS 2B SUP ACB 142C TC2	74NISBB2"74-NISBBX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2920D	"STSE"	BUS 2C SUP ACB 242B TC1	74NISCA1"74-NISCAX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2921D	"STSE"	BUS 2C SUP ACB 242B TC2	74NISCA2"74-NISCAX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2918D	"STSE"	BUS 2C SUP ACB 242D TC1	74NISCB1"74-NISCBX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2908D	"STSE"	4KV BUS 2C A TFR TO SSS	74NISCB1"74-NISCBX1/2	""NORM	"TFR	"	ZERO"	3"	1"OFF	"ON	"	NO"
"Y2919D	"STSE"	BUS 2C SUP ACB 242D TC2	74NISCB2"74-NISCBX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2924D	"STSE"	BUS 2D SUP ACB 342B TC1	74NISDA1"74-NISDAX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2925D	"STSE"	BUS 2D SUP ACB 342B TC2	74NISDA2"74-NISDAX2	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2922D	"STSE"	BUS 2D SUP ACB 342D TC1	74NISDB1"74-NISDBX1	""NORM	"TRIP	"	ONE"	3"	1"OFF	"ON	"	NO"
"Y2909D	"STSE"	4KV BUS 2D A TFR TO SSS	74NISDB1"74-NISDBX1/2	""NORM	"TFR	"	ZERO"	3"	1"OFF	"CN	"	NO"

1					2										
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**	**	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR		
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*TIME			
0	*0	*1	*2	*5	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*TIME			
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1		
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH		
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
"Y2923D	"STSE"	BUS 2D SUP ACB 342D TC2	74NNSDB2"	74-INNSDBX2	""	NORM	"TRIP	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3503D	"STSE"	480V EHIER BUS 2N	74-RN200"	74-RN200	""	NORM	"GND	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3053D	"STSE"	480V EHIER BUS 2P GND	74-RP200"	74-RP200	""	NORM	"ALRM	"	ONE"	3"	1"	OFF	"ON	"	NO"
"P2802D	"STSE"	138KV OCB 83P GAS PRESS	74-83X	"74-83X	""	NORM	"LOW	"	ONE"	3"	1"	OFF	"ON	"	NO"
"P2800D	"STSE"	138KV OCB 92P GAS PRESS	74-92X	"74-92X	""	NORM	"LOW	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y2958D	"STSE"	DG 2-1 EXCITER OC	76-VE210"	76-VE210	""	NORM	"ALRM	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y2983D	"STSE"	DG 2-2 EXCITER OC	76VF210	"76-VF210	""	NORM	"ALRM	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3082D	"STSE"	SYS TFHR SEP PAIR #29	77-Z211	"77-Z211	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3081D	"STSE"	SYS TFHR SEP PAIR #28	77-Z212	"77-Z212	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3079D	"STSE"	SYS TFHR SEP PAIR #27	77-Z221	"77-Z221	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3078D	"STSE"	SYS TFHR SEP PAIR #26	77-Z222	"77-Z222	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y6606D	"STSE"	SYS TFHR SEP PAIR#24	77-1204	"77-1204	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3077D	"STSE"	UNIT TFHR SEP PAIR #21	77-201	"77-201	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y3080D	"STSE"	UNIT TFHR SEP PAIR #22	77-202	"77-202	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y6605D	"STSE"	UNIT TFHR SEP PAIR#23	77-204	"77-204	""	NORM	"TRBL	"	ONE"	3"	1"	OFF	"ON	"	NO"
"Y6450D	"STSE"	345KV BUS BKR FAILURE	77/1204X"	77/1204X	""	NORM	"ALRM	"	ONE"	2"	1"	OFF	"ON	"	NO"
"Y6449D	"STSE"	345KV BUS BKR FAILURE	77/204X	"77/204X	""	NORM	"ALRM	"	ONE"	2"	1"	OFF	"ON	"	NO"
"F0480D	"STSE"	LOOP 21 BYPASS FLOW	80CESNCX"	80-CESNCX	""	NORM	"LOW	"	ONE"	2"	1"	OFF	"ON	"	NO"
"F0481D	"STSE"	LOOP 22 BYPASS FLOW	80CENCX1"	80-CESNCX1	""	NORM	"LOW	"	ONE"	2"	1"	OFF	"ON	"	NO"
"F0482D	"STSE"	LOOP 23 BYPASS FLOW	80CENCX2"	80-CESNCX2	""	NORM	"LOW	"	ONE"	2"	1"	OFF	"ON	"	NO"



1			2										
T	*POINT	*PT	*DESCRIPTION	*INSTRUMENT	**DEV	*DEV	*ALRM	*CRT	*ALRM	*ALRM	*CHG	*INVS	*RLY
/	*NO.	*TYPE		*TAG NO.	**STAT	*STAT	*ON	*NO.	*CUT	*CUT	*STAT	*SPEC	*CORR
C	*	*	*	*	**CONT	*CONT	*CON	*	*CONT	*CONT	*	*	*TIME
*	*	*	*	*	**OPEN	*CLSD	*STAT	*	*PT.NO.	*STAT	*	*	*
0	*0	*1	*2	*5	**1	*2	*3	*3	*4	*5	*6	*6	*7
1	*4	*7	*2	*5	**7	*4	*1	*8	*3	*6	*1	*6	*1
	*IDEN	*P	*DESC	*SIT	**ZSDS	*OSDS	*ALDD	*ALPR	*ACID	*ACSD	*RPTD	*INVD	*RLTH
	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	"V20300	"STSE"	USS TFR 2C VOLTAGE	83V206X2"83-V206X2	"NORM	"LOW	"	ONE	3"	1"OFF	"ON	"	NO"
	"V29000	"STSE"	USS XFR 2D VOLTAGE	83V207X2"83-V207X2	"NORM	"LOW	"	ONE	3"	1"OFF	"ON	"	NO"
	"V20150	"STSE"	SSS TFR 2A VOLTAGE	83V200X2"83-V200X2	"NORM	"LOW	"	ONE	3"	1"OFF	"ON	"	NO"
	"V20160	"STSE"	SSS TFR 2B VOLTAGE	83V209X2"83-V209X2	"NORM	"LOW	"	ONE	3"	1"OFF	"ON	"	NO"
	"Y20400	"STSE"	MAIN GEN VOLTAGE REGULAT94/RB	"94/RB	"NORM	"TRIP	"	ONE	3"	1"OFF	"ON	"	NO"
	"V01010	"STSE"	VITAL BUS 2-1 INVERTER	990SB3BA"99-0SB3BA	"NORM	"OPER	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01020	"STSE"	VITAL BUS 2-1 INVERTER	990SB3BB"99-0SB3BB	"NORM	"TRBL	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01050	"STSE"	VITAL BUS 2-3 INVERTER	990SB3BE"99-0SB3BE	"NORM	"OPER	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01060	"STSE"	VITAL BUS 2-3 INVERTER	990SB3BF"99-0SB3BF	"NORM	"TRBL	"	ONE	1"	1"OFF	"ON	"	NO"
	"V20750	"STSE"	BAT 2-1 CHARGER	99-S33BJ"99-0SB3BJ	"NORM	"TRBL	"	ONE	3"	1"OFF	"ON	"	NO"
	"V20770	"STSE"	BAT 2-2 CHARGER	99PSB3BE"99-PSB3BE	"NORM	"TRBL	"	ONE	3"	1"OFF	"ON	"	NO"
	"V01030	"STSE"	VITAL BUS 2-2 INVERTER	99PSB3C "99-PSB3C	"NORM	"OPER	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01040	"STSE"	VITAL BUS 2-2 INVERTER	99PSB3D "99-PSB3D	"NORM	"TRBL	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01070	"STSE"	VITAL BUS 2-4 INVERTER	99PSB3G "99-PSB3G	"NORM	"OPER	"	ONE	1"	1"OFF	"ON	"	NO"
	"V01080	"STSE"	VITAL BUS 2-4 INVERTER	99PSB3H "99-PSB3H	"NORM	"TRBL	"	ONE	1"	1"OFF	"ON	"	NO"
	"V29010	"STSE"	DC PHL DC2-02 CONT PHR	99PCB1Y "99PCB1Y	"LOSS	"NORM	"	ZERO	1"	1"OFF	"ON	"	NO"



[illegible]

1				2							
T POINT / NO.	PT TYPE	DESCRIPTION	INSTRUMENT TAG NO.	DEV STAT	DEV STAT	ALRM ON	CRT NO.	ALRM CUT	ALRM CHG	INVS SPEC	RLY CORR
C				CONT	CONIT	CON	PT.NO.	CONIT	STAT	TIME	
0	1	2	5	1	2	3	4	5	6	7	
1	4	7	5	7	4	1	8	3	6	1	
IDEN	P	DESC	SIT	ZSDS	OSDS	ALDD	ALPR	ACIO	ACSD	RPTD	IIVD
CCCCCCCCCCCC	CCCC	CC	CCCCCCCCCCCCCCCCCCCC	CCCCCC	CCCCCC	IIIIIIIIII	IIIIIIIIII	IIIIIIIIII	IIIIIIIIII	IIIIIIIIII	IIIIIIIIII
C2-Y2983D	"STSE"	DG 2-2 EXCITER OC	76VF210 "76-VF210	"NORM	"ALRM	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y3082D	"STSE"	SYS TFHR SEP PAIR #29	77-Z211 "77-Z211	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y3081D	"STSE"	SYS TFHR SEP PAIR #28	77-Z212 "77-Z212	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y3079D	"STSE"	SYS TFHR SEP PAIR #27	77-Z221 "77-Z221	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C8-Y3078D	"STSE"	SYS TFHR SEP PAIR #26	77-Z222 "77-Z222	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
A9-Y6606D	"STSE"	SYS TFHR SEP PAIR#24	77-1204 "77-1204	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C8-Y3077D	"STSE"	UNIT TFHR SEP PAIR #21	77-201 "77-201	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y3080D	"STSE"	UNIT TFHR SEP PAIR #22	77-202 "77-202	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
A9-Y6605D	"STSE"	UNIT TFHR SEP PAIR#23	77-204 "77-204	"NORM	"TRBL	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y6450D	"STSE"	345KV BUS BKR FAILURE	77/1204X "77/1204X	"NORM	"ALRM	" ONE	2"	1"OFF	"ON	" NO"	
C2-Y6449D	"STSE"	345KV BUS BKR FAILURE	77/204X "77/204X	"NORM	"ALRM	" ONE	2"	1"OFF	"ON	" NO"	
F04800	"STSE"	LOOP 21 BYPASS FLOW	80CESNCX "80-CESNCX	"NORM	"LOH	" ONE	2"	1"OFF	"ON	" NO"	
F04810	"STSE"	LOOP 22 BYPASS FLOW	80CENCX1 "80-CESNCX1	"NORM	"LOH	" ONE	2"	1"OFF	"ON	" NO"	
F04820	"STSE"	LOOP 23 BYPASS FLOW	80CENCX2 "80-CESNCX2	"NORM	"LOH	" ONE	2"	1"OFF	"ON	" NO"	
V28300	"STSE"	USS TFHR 2C VOLTAGE	83V206X2 "83-V206X2	"NORM	"LOH	" ONE	3"	1"OFF	"ON	" NO"	
V29000	"STSE"	USS XFHR 2D VOLTAGE	83V207X2 "83-V207X2	"NORM	"LOH	" ONE	3"	1"OFF	"ON	" NO"	
V28150	"STSE"	SSS TFHR 2A VOLTAGE	83V208X2 "83-V208X2	"NORM	"LOH	" ONE	3"	1"OFF	"ON	" NO"	
V28160	"STSE"	SSS TFHR 2B VOLTAGE	83V209X2 "83-V209X2	"NORM	"LOH	" ONE	3"	1"OFF	"ON	" NO"	
C2-Y28400	"STSE"	HAIN GEN VOLTAGE REGULAT94/RB	"94/RB	"NORM	"TRIP	" ONE	3"	1"OFF	"ON	" NO"	
C1-V01010	"STSE"	VITAL BUS 2-1 INVERTER	990SB3BA "99-0SB3BA	"NORM	"OPER	" ONE	1"	1"OFF	"ON	" NO"	

1			2									
T #POINT / #NO.	#PT #DESCRIPTION #TYPE#	#INSTRUMENT #TAG NO.	#DEV #STAT	#DEV #STAT	#ALRM #ON	#CRT #NO.	#ALRM #CUT	#ALRM#CHG #CUT	#INVS#RLY #STAT#SPEC#CORR	#TIME	#TIME	
C #	#	#	#CONT	#CONT	#CON	#	#CONT	#CONT#	#	#	#	
0 #0	#1 #2	#5	#OPEN	#CLSD	#STAT	#	#PT.#NO.	#5 #6 #6 #7	#6 #1 #6 #1	#ACSD#RPTD#INVD#RLTH		
1 #4	#7 #2	#5	#7	#4	#1	#8 #3						
#IDEN	#P #DESC	#SIT	#ZSDS	#OSDS	#ALDD	#ALPR#ACID						
#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
C1"V0102D	"STSE"VITAL BUS 2-1 INVERTER	990SB3BB"99-05B3BB	""NORM	"TRBL	"	ONE"	1"	1"OFF "ON	"	NO"		
"V0105D	"STSE"VITAL BUS 2-3 INVERTER	990SB3BE"99-05B3BE	""NORM	"OPER	"	ONE"	1"	1"OFF "ON	"	NO"		
"V0106D	"STSE"VITAL BUS 2-3 INVERTER	990SB3BF"99-05B3BF	""NORM	"TRBL	"	ONE"	1"	1"OFF "ON	"	NO"		
"V2875D	"STSE"BAT 2-1 CHARGER	99-5B3BJ"99-05B3BJ	""NORM	"TRBL	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2879D	"STSE"BAT 2-3 CHARGER	990SB3BH"99-05B3BH	""NORM	"TRBL	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2878D	"STSE"BAT 2-3 VOLTAGE	990SB3BH"99-05B3BH	""NORM	"LOH	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2876D	"STSE"BAT 2-2 VOLTAGE	99PSB3BB"99-PSB3BB	""NORM	"LOHL	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2877D	"STSE"BAT 2-2 CHARGER	99PSB3BE"99-PSB3BE	""NORM	"TRBL	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2880D	"STSE"BAT 2-4 VOLTAGE	99PSB3BF"99-PSB3BF	""NORM	"LOH	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2881D	"STSE"BAT 2-4 CHARGER	99PSB3BJ"99-PSB3BJ	""NORM	"TRBL	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2848D	"STSE"4KV E BUS 2DF VOLTAGE	99PSB3BH"99-PSB3BH	""NORM	"LOH	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2849D	"STSE"4KV E BUS 2DF VOLTAGE	99PSB3BQ"99-PSB3BQ	""NORM	"LOH	"	ONE"	3"	1"OFF "ON	"	NO"		
C1"V0103D	"STSE"VITAL BUS 2-2 INVERTER	99PSB3C "99-PSB3C	""NORM	"OPER	"	ONE"	1"	1"OFF "ON	"	NO"		
C1"V0104D	"STSE"VITAL BUS 2-2 INVERTER	99PSB3D "99-PSB3D	""NORM	"TRBL	"	ONE"	1"	1"OFF "ON	"	NO"		
C1"V0107D	"STSE"VITAL BUS 2-4 INVERTER	99PSB3G "99-PSB3G	""NORM	"OPER	"	ONE"	1"	1"OFF "ON	"	NO"		
C1"V0108D	"STSE"VITAL BUS 2-4 INVERTER	99PSB3H "99-PSB3H	""NORM	"TRBL	"	ONE"	1"	1"OFF "ON	"	NO"		
"V2874D	"STSE"BAT 2-1 VOLTAGE	99-AB3BS"99-SB3BS	""NORM	"LOH	"	ONE"	3"	1"OFF "ON	"	NO"		
"V2901D	"STSE"DC PHL DC2-02 CONT PHR	99PCB1Y "99PSB1Y	""LOSS	"NORM	"	ZERO"	1"	1"OFF "ON	"	NO"		

PRE/POST TRIP LOG

<u>NO.</u>	<u>POINT ID</u>	<u>POINT DESCRIPTION</u>
1	F0403A	STM GEN A FW IN 1 FLOW
2	F0404A	STM GEN A FW IN 2 FLOW
3	F0405A	STM GEN A STM OUT 1 FLOW
4	F0406A	STM GEN A STM OUT 2 FLOW
5	F0423A	STM GEN B FW IN 1 FLOW
6	F0424A	STM GEN B FW IN 2 FLOW
7	F0425A	STM GEN B STM OUT 1 FLOW
8	F0426A	STM GEN B STM OUT 2 FLOW
9	F0443A	STM GEN C FW IN 1 FLOW
10	F0444A	STM GEN C FW IN 2 FLOW
11	F0445A	STM GEN C STM OUT 1 FLOW
12	F0446A	STM GEN C STM OUT 2 FLOW
13	<del>P0486A</del> <del>F0403A</del>	PRZR SPRAY CONT A SETPT
14	<del>P0487A</del> <del>F0484A</del>	PRZR SPRAY CONT B SETPT
15	L0400A	STM GEN A NR 1 LEVEL
16	L0401A	STM GEN A NR 2 LEVEL
17	L0402A	STM GEN A NR 3 LEVEL
18	L0403A	STM GEN A WR LEVEL
19	L0420A	STM GEN B NR 1 LEVEL
20	L0421A	STM GEN B NR 2 LEVEL
21	L0422A	STM GEN B NR 3 LEVEL
22	L0423A	STM GEN B WR LEVEL
23	L0440A	STM GEN C NR 1 LEVEL
24	L0441A	STM GEN C NR 2 LEVEL



<u>NO.</u>	<u>POINT ID</u>	<u>POINT DESCRIPTION</u>
25	L0442A	STM GEN C NR 3 LEVEL
26	L0443A	STM GEN C WR LEVEL
27	L0480A	PRESSURIZER 1 LEVEL
28	L0481A	PRESSURIZER 2 LEVEL
29	L0482A	PRESSURIZER 3 LEVEL
30	L0483A	PRESSURIZER LEVEL CONTROL SP
31	N0031A	SOURCE RNG DET 1 LOG Q
32	N0032A	SOURCE RNG DET 2 LOG Q
33	N0035A	INTERM RNG DET 1 LOG Q
34	N0036A	INTERM RNG DET 2 LOG Q
35	N0041A	PWR RNG 1 TOP DET Q
36	N0042A	PWR RNG 1 BOT DET Q
37	N0043A	PWR RNG 2 TOP DET Q
38	N0044A	PWR RNG 2 BOT DET Q
39	N0045A	PWR RNG 3 TOP DET Q
40	N0046A	PWR RNG 3 BOT DET Q
41	N0047A	PWR RNG 4 TOP DET Q
42	N0048A	PWR RNG 4 BOT DET Q
43	N0049A	PWR RNG CHANNEL 1 Q
44	N0050A	PWR RNG CHANNEL 2 Q
45	N0051A	PWR RNG CHANNEL 3 Q
46	N0052A	PWR RNG CHANNEL 4 Q
47	P0398A	TURB FIRST STAGE 1 PRESS
48	P0399A	TURB FIRST STAGE 2 PRESS



<u>NO.</u>	<u>POINT ID</u>	<u>POINT DESCRIPTION</u>
49	P0400A	STM GEN A STM OUT 1 PRESS
50	P0401A	STM GEN A STM OUT 2 PRESS
51	P0402A	STM GEN A STM OUT 3 PRESS
52	P0420A	STM GEN B STM OUT 1 PRESS
53	P0421A	STM GEN B STM OUT 2 PRESS
54	P0422A	STM GEN B STM OUT 3 PRESS
55	P0440A	STM GEN C STM OUT 1 PRESS
56	P0441A	STM GEN C STM OUT 2 PRESS
57	P0442A	STM GEN C STM OUT 3 PRESS
58	P0480A	PRESSURIZER 1 PRESSURE
59	P0481A	PRESSURIZER 2 PRESSURE
60	P0482A	PRESSURIZER 3 PRESSURE
61	P0483A	PRESSURIZER 4 PRESSURE
62	P0484A	PRESSURIZER 5 PRESSURE
63	P0496A	STM LINE HDR 1 PRESS
64	P0498A	RCS LOOP 21 PRESS
65	P0499A	RCS LOOP 23 PRESS
66	Q0340A	UNIT GENERATION GROSS MW
67	T0400A	RCLA PROTECTION TAVG
68	T0401A	RCLA CONTROL TAVG
69	T0402A	RCLA COLD TEMP
70	T0403A	RCLA PROTECTION DT
71	T0404A	RCLA CONTROL DT
72	T0406A	RCLA COLD TEMP

<u>NO.</u>	<u>POINT ID</u>	<u>POINT DESCRIPTION</u>
73	T0407A	RCLA OVER PWR DT 1 SP
74	T0410A	RCLA OVER TEMP DT 1 SP
75	T0418A	STM GEN A FD WTR IN TEMP
76	T0419A	RCLA HOT TEMP
77	T0420A	RCLB PROTECTION TAVG
78	T0421A	RCLB CONTROL TAVG
79	T0422A	RCLB COLD TEMP
80	T0423A	RCLB PROTECTION DT
81	T0424A	RCLB CONTROL DT
82	T0426A	RCLB COLD TEMP
83	T0427A	RCLB OVER PWR DT 1 SP
84	T0430A	RCLB OVER TEMP DT 1 SP
85	T0438A	STM GEN B FD WTR IN TEMP
86	T0439A	RCLB HOT TEMP
87	T0440A	RCLC PROTECTION TAVG
88	T0441A	RCLC CONTROL TAVG
89	T0442A	RCLC COLD TEMP
90	T0443A	RCLC PROTECTION DT
91	T0444A	RCLC CONTROL DT
92	T0445A	RCLC COLD TEMP
93	T0447A	RCLC OVER PWR DT 1 SP
94	T0450A	RCLC OVER TEMP DT 1 SP

<u>NO.</u>	<u>POINT ID</u>	<u>POINT DESCRIPTION</u>
95	T0458A	STM GEN C FD WTR IN TEMP
96	T0480A	PRESSURIZER WTR TEMP
97	T0481A	PRESSURIZER STM TEMP
98	T0496A	RX CLG TEMP REFERENCE
99	T0497A	RCL AUCT DT
100	T0499A	RCL AUCT TAVG