

Docket Number 50-346

License Number NPF-3

Serial Number 1805

May 10, 1990

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Subject: Fire Protection - Summary of Differences Between Compliance
Assessment Report Analysis and the Fire Area Optimization
Report

Gentlemen:

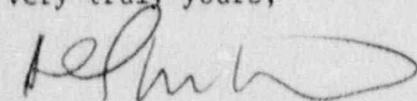
Attachment 1 to this letter provides a detailed summary of the differences between the Compliance Assessment Report (CARP) Revision 5, and the attached Fire Area Optimization Report (FAOR), Revision 1 (Attachment 2). CARP Revision 5 was transmitted to the NRC on December 18, 1989 (Serial Number 1746). The FAOR represents the anticipated Davis-Besse plant configuration at startup from the 6th refueling outage currently underway and will supersede the CARP for the purpose of demonstrating compliance to Appendix R.

Copies of FAOR Revision 1 were provided to Mr. Ken Sullivan and Mr. Rudy Hodor at Brookhaven National Laboratory on May 2, 1990 to facilitate completion of their Davis-Besse Fire Protection inspection reviews.

By letter dated March 22, 1990 (Serial 1788) Toledo Edison requested a License Amendment to change License Condition 2.C(4). In the discussion for items 16 through 20 in that letter, Toledo Edison supported the proposed License Condition changes in part by reference to the CARP, which documented compliance with Appendix R safe shutdown separation requirements. The FAOR now provides the documentation that demonstrates compliance with Appendix R Section III.G, with the Kaowool wrap removal or replacement as described in items 16 through 20 of Serial 1788.

If you have any questions concerning this matter, please contact Mr. R. W. Schrauder, Manager - Nuclear Licensing, at (419) 249-2366.

Very truly yours,



DCW/ssg

Attachments

cc: P. M. Byron, DB-1 NRC Senior Resident Inspector
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Comparison of Differences Between the
Appendix R Compliance Assessment Report (CARP) (Rev. 5)
and the Fire Area Optimization Report (FAOR) (Rev. 1)

Background

The Compliance Assessment Report (CARP) was written to document compliance with Appendix R for the Davis-Besse Nuclear Power Plant. The most current revision of the CARP, (i.e., Revision 5) was transmitted to the NRC on December 18, 1989 (Serial Number 1746). Fifty-six Appendix R fire areas are analyzed in the CARP. In 1987, Toledo Edison began the Fire Area Optimization process. Fire Area Optimization consolidated the 56 areas analyzed in the CARP into 44 areas and reanalyzed these 44 areas for compliance with Appendix R.

The Fire Area Optimization Report documented the Area Optimization process. Revision 0 of the FAOR was transmitted to the NRC on April 25, 1990 (Serial Number 1801). The intent of the FAOR was to supersede the CARP as Toledo Edison's documentation of compliance with Appendix R. Revision 1 of the FAOR resulted from a review to identify any inconsistencies in the document and is attached.

The sections which follow provide a discussion of the specific differences between the CARP and the FAOR. Unless otherwise indicated all references to these documents are to Revision 5 of the CARP and Revision 1 of the FAOR. The general differences between the CARP and the FAOR are:

- ° The CARP analyzed 56 Appendix R fire areas; The FAOR consolidated and reanalyzed 44 Appendix R fire areas.
- ° The FAOR underwent certain format changes and section redefinition to enhance its use.
- ° The FAOR incorporated information contained in TE letter dated February 16, 1990 (Serial 1757).
- ° The FAOR incorporated into each fire area information such as certain "generic" manual actions which had previously resided in documents other than the CARP.
- ° Certain historical information contained in earlier submittals was not included in the FAOR.

The CARP to FAOR differences are described in the following sections on Format, Content, and Detailed Changes.

Format

A contents cross reference is attached to show how the information from the CARP has been incorporated into the FAOR. The left side of the cross reference is the existing CARP Table of Contents. Entries are shown in the right column for the section where information on the same subject

is found in the FAOR. The text from the CARP was not directly incorporated into the FAOR. In many cases the CARP information was consolidated for the FAOR by summarizing or by referencing other sections or documents. The Contents Cross Reference specifically notes where additional information has been added to the FAOR or where information from the CARP has been deleted.

For the individual Fire Areas in Section 4.0, the format of the FAOR is the same as that of the CARP except:

- The Table 1 for each fire area in the CARP tabulates relevant safe shutdown analysis information only for equipment and circuits that are located in the fire area. The FAOR safe shutdown analysis table lists all plant equipment for the accredited train and its location (Fire Area). The CARP Table 1 fields "Proposed Modification" and "Procedure" have been incorporated into the FAOR safe shutdown table "Required Change" and "Notes" fields in each fire area section.
- Safe shutdown circuits listed in CARP fire area descriptions in Section 4.6 now appear in FAOR Appendix B-2, which is a plant-wide safe shutdown cable list sorted by Fire Area.
- The CARP Fire Area Compliance Summary has been divided into three sections, Fire Propagation Control, Fire Detection and Suppression, and Fire Area Safe Shutdown Summary in the FAOR. The information for the first of these two sections has been incorporated from the Fire Hazards Analysis Report.

Content

The following additional information on content changes supplements the CARP/FAOR contents cross reference.

CARP Sections 1.0 & 7.0: Compliance Assessment Report (CARP) Section 1.0, "Introduction and Summary" contains background and summary information only. The "Introduction and Summary" in the Fire Area Optimization Report (FAOR) is a condensed version of CARP Section 1.0. CARP Section 7.0, "Alternate Shutdown Capability" was condensed in the FAOR to remove the historical information docketed earlier concerning responses to the clarification to Generic Letter 81-12. The condensed CARP Section 7.0 was incorporated into FAOR Section 1.4.

CARP Section 2.0: CARP Section 2.0, "References" lists reference documents that support the CARP analysis. FAOR Section 2.0 reflects an update of the references, including the addition of Toledo Edison Request for Assistance (RFAs) documents.

CARP Section 3.0: CARP Section 3.0, "Safe Shutdown Systems, Components and Circuits" contains summary information of the methodology and the resultant safe shutdown systems, components and circuits. The Fire Area Optimization

Report Section 3.0 discusses the same subjects with a clarification of some of the information and inclusion of relevant information from the previously referenced CARP reports. For example, the revised information includes a discussion of high/low pressure interface valves, the establishment of Reactor Coolant Pump seal injection and seal return, and deletion of Heating, Ventilation, and Air Conditioning Systems no longer required to support safe shutdown. Also, discussion of two safe shutdown systems (i.e., Safety Features Actuation System and Steam and Feedwater Rupture Control System) has been provided in the FAOR which was not in the CARP.

CARP Section 4.0: CARP Section 4.0, "Appendix R, Section III.G Evaluation" and the CARP Appendices A, B-1, B-2, C-1, C-2 and C-3 contain the evaluation to assure safe shutdown capability and the fire area circuit routings. FAOR Section 4.0 contains a new fire area safe shutdown analysis presented in the format described above. Because FAOR Section 4.0 contains the details of the fire area safe shutdown analysis, this is the section where the technical model changes are reflected. A listing of general changes that have been incorporated into the safe shutdown analysis follows. Items 1 through 7 are model changes. Items 8 through 11 are technical in nature and do not represent model changes, but rather, present information not previously contained in the CARP.

1. Additional manual operator actions due to modeling a potential actuation of the Safety Features Actuation System (SFAS) possibly resulting in the loss of two essential inverters have been addressed as described in TE letter dated February 16, 1990 (Serial 1757), Attachment 1, Item 1.
2. Reactor Coolant System letdown path restoration as described in the TE letter dated February 16, 1990 (Serial 1757) Attachment 1, Item 2 and Attachment 2, Item 4, has been added.
3. Reactor Coolant Pump seal injection and seal return restoration as described in TE letter dated February 16, 1990 (Serial 1757) Attachment 2, Item 3, is included.
4. Changes to Fire Area boundaries due to area optimization are reflected.
5. Addition of manual operator actions resulting from modeling actuation of the Steam and Feedwater Rupture Control System (SFRCS) resulting from the assumed loss of offsite power have been addressed. This model change is similar to Item 1 above.
6. In three fire areas the train accredited for safe shutdown changed as follows:
 - a. Fire Area II went from a Train 1 to a Train 2 area because of changes in the Fire Area boundary.
 - b. Fire Area DH went from a Train 1 to a Train 1/2 area to incorporate consideration of mechanical safe shutdown components in the analysis.

- c. Fire Area R went from a Train 1/2 to a Train 2 area because of a circuit reroute modification.
7. Pertinent 5th and 6th refueling outage modification information was incorporated in the model and notes to the table.
8. Mechanical components required for safe shutdown were identified. Previously only electrical components were included in the CARP.
9. Additional manual actions for loss of station air were specifically included for the appropriate fire areas in the FAOR. Previously in the CARP, the loss of station air was addressed by a generic note.
10. Additional manual actions for spurious actuation of nonaccredited equipment are included in the FAOR. Previously, the information was contained in a separate report referenced by the CARP.
11. A more complete listing of the intermediate power supplies (i.e., 4160V, 480V and 120V) was included in the FAOR tables. Previously not all of the intermediate power supplies were listed. For example, the CARP listed power supply D1P for a component and the FAOR references all the panels between D1P and the component.

CARP Section 5.0: CARP Section 5.0, "Associated Circuits" contains a summary description of the methodology and criteria for the review and resolution for the three categories of associated circuits of concern (i.e., common power sources, spurious actuation of components, and common enclosure). The FAOR section on common power sources contains the same basic information with updates to reflect the modifications to resolve the coordination concerns. The evaluation of possible spurious actuation of equipment was included in the circuit analysis performed for safe shutdown equipment as documented in FAOR Section 4.0 and was not included within FAOR Section 5.0. The revised FAOR Section on common enclosures contains the same type of summary information as the CARP. A new FAOR section referencing the multiple high impedance fault analysis was added.

CARP Section 6.0: CARP Section 6.0, "Emergency Lighting" contains an evaluation of the emergency lighting requirements for the safe shutdown procedures and the lighting additions to resolve the concerns. The FAOR section reflects a walkdown of the new (post 6th RFO) safe shutdown procedures to reflect the optimized areas and the sixth refueling outage modifications. The FAOR section also reflects the planned modification for additional emergency lighting.

CARP Section 8.0: CARP Section 8.0, "Oil Collection System for Reactor Coolant Pump" contains a discussion of the lube oil collection system, which was extracted principally from the NRC exemption approval letter. FAOR Section 1, Table 3, Summary of Exemptions, and Section 4.0 for Fire Area D cover the subject in summary form.

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Detailed Changes

The detailed changes to the safe shutdown analysis tables are provided in the following markups of the tables. The changes to each fire area table are not provided because these can be characterized by changes to the safe shutdown component list. A markup of the FAOR safe shutdown component list (Appendix A) is attached, showing changes from the CAKF. Similarly, tables showing the changes in associated circuits analysis are provided. Instructions for using the tables precede each table.

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION
COMPLIANCE ASSESSMENT REPORT AND FIRE AREA OPTIMIZATION REPORT
CONTENTS CROSS REFERENCE

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CARP REVISION 5 SECTION - - - - - VERSUS CORRESPONDING - - - - - FAOR REVISION 1 SECTION

1.0 INTRODUCTION AND SUMMARY

- 1.1 Background
- 1.2 Purpose of Report
- 1.3 Scope of Report
- 1.4 Review Methodology
- 1.5 Summary of Results
- 1.6 Definitions, Abbreviations, and Equipment/Cable Numbering Systems

Table 1-1 Fire Area Compliance Overview

Table 1-2 Summary of Exemption Requests

2.0 REFERENCES

- 2.1 Drawings
- 2.2 Procedures
- 2.3 Reports
- 2.4 NRC Documents
- 2.5 Letters
- 2.6 Calculations

3.0 SAFE SHUTDOWN SYSTEMS, COMPONENTS AND CIRCUITS

- 3.1 Introduction
- 3.2 Performance Goals
- 3.3 Safe Shutdown Functions
- 3.4 Requirements and Assumptions
- 3.5 Safe Shutdown Systems Determination
- 3.6 Safe Shutdown Systems

1.0 INTRODUCTION

- 1.0 Introduction
- 1.1 Purpose of Report
- 1.0 Introduction
- 1.2 Methodology
- 1.3 Summary of Results
- 1.5 Definitions, Abbreviations, and Equipment/Cable Numbering Systems

Added Section 1.4 to incorporate summary-level information from
CARP, Section 7.0

Deleted - Contained no information not in other report sections

Table 3 Summary of Exemptions

2.0 REFERENCES

- 2.1 Drawings
- 2.2 Procedures
- 2.3 Reports
- 2.4 NRC Documents
- 2.5 Letters
- 2.6 Calculations
- Added 2.7 Request for Assistance (RFAs)

3.0 SAFE SHUTDOWN SYSTEMS, COMPONENTS AND CIRCUITS

- 3.1 Introduction
- 3.2 Performance Goals
- 3.3 Safe Shutdown Functions
- 3.4 Requirements and Assumptions
- 3.5 Safe Shutdown Systems Determination
- 3.6 Safe Shutdown Systems

CARP and FAOR CONTENTS CROSS REFERENCE

CARP REVISION 5 SECTION ----- VERSUS CORRESPONDING ----- FAOR REVISION 1 SECTION

3.7 Safe Shutdown System Components
3.8 Safe Shutdown System Circuits
3.9 Plant Communications and Security
Table 3-1 Safe Shutdown Systems

3.7 Safe Shutdown System Components
3.8 Safe Shutdown System Circuits
3.9 Plant Communications and Security
Table 3-1 Safe Shutdown Systems

4.0 APPENDIX R, SECTION III.G EVALUATION

4.1 Introduction
4.2 Requirements
4.3 Assumptions
4.4 Evaluation Methodology
4.5 Methods of Achieving Compliance
4.6 Fire Area Evaluations

4.6.A Fire Area A
4.6.AA Fire Area AA
4.6.AB Fire Area AB
4.6.AC Fire Area AC
4.6.B Fire Area B
4.6.BB Fire Area BB
4.6.BD Fire Area BD
4.6.BE Fire Area BE
4.6.BF Fire Area BF
4.6.BM Fire Area BM
4.6.BN Fire Area BN
4.6.C Fire Area C
4.6.CC Fire Area CC
4.6.D Fire Area D
4.6.DA Fire Area DA
4.6.DB Fire Area DB
4.6.DC Fire Area DC
4.6.DD Fire Area DD

4.0 APPENDIX R, SECTION III.G EVALUATION

4.1 Introduction
4.2 Requirements
4.3 Assumptions
4.4 Evaluation Methodology
4.5 Methods of Achieving Compliance
4.6 Fire Area Evaluations

4.A
4.X
4.AB
4.AC
4.B
4.Y
4.BD
4.BE
4.BF (now includes Room 52A)
4.BM
4.BN
4.A
4.CC
4.D
4.A (east half of CARP Area DA) & 4.AB (west half of CARP Area DA)
4.A
4.AB
4.DD

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CARP and FAOR CONTENTS CROSS REFERENCE

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4.6.DE	Fire Area DE	4.AB
4.6.DF	Fire Area DF	4.DF
4.6.DG	Fire Area DG	4.DG
4.6.DH	Fire Area DH	4.DH
4.6.DJ	Fire Area DJ	4.A
4.6.E	Fire Area E	4.E
4.6.EE	Fire Area EE	4.EE
4.6.F	Fire Area F	4.F
4.6.FF	Fire Area FF	..FF
4.6.G	Fire Area G	4.G
4.6.HA	Fire Area HA	4.AB
4.6.HH	Fire Area HH	4.HH
4.6.I	Fire Area I	4.G
4.6.II	Fire Area II	4.II (now also includes FHAR Areas II, NN, QQ, OO, YY, JJ, TT, RR, LL, MM, PP, and Room 508)
4.6.J	Fire Area J	4.J
4.6.K	Fire Area K	4.K
4.6.L	Fire Area L	4.J
4.6.M	Fire Area M	4.K
4.6.MA	Fire Area MA	4.MA
4.6.MB	Fire Area MB	4.BB
4.6.MC	Fire Area MC	4.MC
4.6.ME	Fire Area ME	4.ME
4.6.MF	Fire Area MF	4.MF
4.6.MG	Fire Area MG	4.MG
4.6.P	Fire Area P	4.P (now also includes FHAR Areas P, O, and N)
4.6.PP	Fire Area PP	4.II
4.6.Q	Fire Area Q	4.Q
4.6.QQ	Fire Area QQ	4.II
4.6.R	Fire Area R	4.R
4.6.S	Fire Area S	4.S
4.6.T	Fire Area T	4.T
4.6.U	Fire Area U	4.U

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4.6.UU Fire Area UU
4.6.V Fire Area V
4.6.W Fire Area W
4.6.X Fire Area X
4.6.Y Fire Area Y
4.6.Z Fire Area Z

4.UU (now also includes FHAR Areas UU and AB1 Stairwell
and EL2 elevator shaft)
4.V
4.X
4.X
4.Y
4.Y

Added the following Fire Areas to the FAOR

4.BG (includes Rooms 53, 53A, 250 and 251 previously
in CARP Area II)
4.BH (includes Fire Areas BI, BJ, and BH as defined
in FHAR)
4.KK (includes Area KK as defined in the FHAR)
4.Duct (Added Duct)
4.MH (Manhole 3009)
4.OS (Outside plus FHAR Areas BL and BK)
4.RW (Low Level Radwaste Building)
4.PS (Personnel Shop Facility)
4.OF (Old Office Building, including FHAR Areas SS and VV)
4.VA (AB3A Stairwell)
4.AD (FHAR Area AD, plus AB2 Stairwell and EL3
Elevator Shaft)

Table 4-1 Precautionary Note
Appendix R, Section III.G Compliance Summary

Deleted - Where appropriate, information incorporated into individual
fire area databases

5.0 ASSOCIATED CIRCUITS

5.0 ASSOCIATED CIRCUITS

5.1 Common Power Source Analysis

5.1 Common Power Source Analysis

5.1.1 Introduction
5.1.2 Assumptions
5.1.3 Methodology
5.1.4 Results

5.1.1 Introduction
Deleted - Information on assumptions in 5.1.2
5.1.2 Methodology
Deleted - Appendix C-3 has results information

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CARP REVISION 5 SECTION - - - - - VERSUS CORRESPONDING - - - - - FAOR REVISION 1 SECTION

5.2 Spurious Actuation Analysis

Deleted - Detailed information incorporated in Section 4.0
for applicable fire areas

- 5.2.1 Introduction
- 5.2.2 Assumptions
- 5.2.3 Methodology
- 5.2.4 Results

5.3 Common Enclosure Analysis

5.2 Common Enclosure Analysis

- 5.3.1 Introduction
- 5.3.2 Assumptions
- 5.3.3 Methodology
- 5.3.4 Results

- 5.2.1 Introduction
- 5.2.2 Assumptions
- 5.2.3 Methodology
- 5.2.4 Results

Added Section 5.3 Summary of Multiple High Impedance
Fault Analysis

Table 5-1 Safe Shutdown Components Evaluated for Spurious
Actuation

Deleted - Information incorporated in Section 4.0 for
applicable fire areas

6.0 EMERGENCY LIGHTING

6.0 EMERGENCY LIGHTING

6.1 Introduction

6.1 Introduction

6.2 Emergency Lighting Evaluation for a Fire in the
Control Room or Cable Spreading Room

Deleted - FAOR incorporates methodology only as follows:

- 6.2.1 Methodology
- 6.2.2 Essential Emergency Lighting Circuit Review
- 6.2.3 Conclusions and Proposed Resolutions

- 6.2 Assumptions and Basis for Evaluation
- 6.3 Emergency Lighting Evaluation
- 6.4 Conclusions

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6.3 Emergency Lighting Evaluation for a Fire Outside the Control Room or Cable Spreading Room Deleted - See note above

- 6.3.1 Introduction and Scope
- 6.3.2 Assumptions
- 6.3.3 Methodology
- 6.3.4 Results/Recommendations

Table 6-1 Summary of Results of the Emergency Lighting Evaluation for a Fire in the Control Room/Cable Spreading Room Deleted - See note above

Table 6-2 Emergency Lighting Evaluation for a Fire in the Control Room/Cable Spreading Room Results (by Room) Deleted - See note above

Table 6-3 Emergency Lighting System Modifications Identified from an Evaluation of a Serious Control Room/Cable Spreading Room Fire Deleted - See note above

Table 6-4 Components Requiring Emergency Lighting for a Serious Plant Fire Deleted - See note above

Table 6-5 Lighting Requirements per Fire Area for a Serious Plant Fire Deleted - See note above

Table 6-6 Summary of Recommendations for a Serious Plant Fire Deleted - See note above

7.0 ALTERNATE SHUTDOWN CAPABILITY

- 7.1 Introduction
- 7.2 Response to NRC Clarification to Generic Letter 81-12
- 7.3 Alternate Shutdown Capability for a Fire in the Control Room or Cable Spreading Room

7.0 ALTERNATE SHUTDOWN CAPABILITY

- Section 1.4 Alternate Shutdown Capability.
- Deleted - One time response to requirements of Generic Letter 81-12
- Section 4.DD and 4.FF - Safe Shutdown Analysis Table

CARP and FAOR CONTENTS CROSS REFERENCE

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Table 7-1 Alternate Shutdown Methods to Meet the Requirements of Section III.G.3 for Fire Area EE
Table 7-2 Alternate Shutdown Methods to Meet the Requirements of Section III.G.3 for Fire Area AB
Table 7-3 Alternate Shutdown Methods to Meet the Requirements of Section III.G.3 for Fire Areas T and U
Table 7-4 Alternate Shutdown Methods to Meet the Requirements of Section III.G.3 for Fire Area BF and R

Section 4.EE - Safe Shutdown Analysis Table contains alternate shutdown information
Deleted - No longer an alternate shutdown area
Deleted - No longer an alternate shutdown area
Sections 4.BF and 4.R - Safe Shutdown Analysis Table contains alternate shutdown information

8.0 OIL COLLECTION SYSTEM FOR REACTOR COOLANT PUMP

8.0 OIL COLLECTION SYSTEM FOR REACTOR COOLANT PUMP

8.1 Introduction
8.2 Issued Exemption for RCP Oil Collection System

Section 1.0 - Table 3 Summary of Exemptions

APPENDIX A: Table of Contents
Safe Shutdown Components List
Safe Shutdown Components Database Notes
APPENDIX B-1: Circuit/Subcomponent Location Summary by System
APPENDIX B-2: Circuit/Subcomponent Location Summary by Fire Area
APPENDIX C-1: Associated Circuit Location Summary by Power Source
APPENDIX C-2: Associated Circuit Location Summary by Fire Area
APPENDIX C-3: Associated Circuit Evaluation Summary
DRAWINGS: (Drawing copies are latest revisions available at time of CARP revision)

APPENDIX A: Safe Shutdown Component List and Notes
APPENDIX B-1: Optimized Fire Area Circuit Routing for Safe Shutdown (same information, new title)
APPENDIX B-2: Optimized Fire Area Circuit Routing for Safe Shutdown Cables (same information, new title)
APPENDIX C-1: Optimized Circuit Routing for Safe Shutdown (same information, new title)
APPENDIX C-2: Optimized Circuit Routing for Safe Shutdown Cable in Fire Area (same information, new title)
APPENDIX C-3: Same information. Now called Breaker Coordination Evaluation Summary
Drawings are controlled separately - not part of FAOR.

FAOR APPENDIX A "SAFE SHUTDOWN COMPONENT LIST"

A markup of the additions or changes to the FAOR Appendix A Safe Shutdown Component List from the CARP is provided. Certain changes are not marked since they do not affect the analysis (i.e., changes to the description of the component, to the P&ID reference, to the Elementary Wiring references, etc.). The key areas of the FAOR Appendix A which affect the analysis are the columns identified as: (a) Train, (b) Component, (c) Normal Position, (d) Shutdown Position, (e) Failed Position, (f) This Component Alternate Shutdown For, (g) High/Low, Spurious, Boundary, (h) Power Supply, and (i) Circuit Scheme. Only changes to these fields are marked with boxes in this submittal.

The numbers shown to the right of the boxed areas provide the reason for the change as follows:

1. A change to show the final power supply to the component was made. Previously an upstream power supply may have been shown. This change allows a consistent way to identify the intermediate power supplies by referring to the Essential Power System listing in FAOR Appendix A. All of the intermediate power feeds are shown for each component power feed in the Essential Power system list section of Appendix A to the FAOR.
2. Components added to the list such as: (a) mechanical components identified, (b) support system components, and (c) components to support Reactor Coolant System Pump seal injection and seal return.
3. Circuit identification was corrected.
4. Corrections such as: (a) correct identification of train designations, (b) correct identification of the component normal, shutdown or failed position, (c) correct identification of the component that alternate shutdown is provided for, and (d) correct identification for High/Low, spurious, boundary identification.

Boxed information designated with a number 1 or 2 in the right margin indicates that all the information in the remaining columns to the right of the boxed area is new or changed to support the component addition or power supply change. Boxed information designated with a number 3 or 4 in the right margin indicates that only the boxed information is new or changed.

Components that were deleted from the CARP in the FAOR tables are not shown on the table markups. Deletions are listed separately on the following sheet.

DELETION OF PREVIOUSLY ANALYZED SAFE SHUTDOWN COMPONENTS

1. The following Heating, Ventilation and Air Conditioning (HVAC) requirements were deleted. C31-1, 2, 3, 4, 5 (ECCS pump room ventilation fans) are deleted based on revised HVAC analysis that these coolers are not required to maintain the room temperature. C75-1, C75-2; HV5443A, B, C; HV5444A, B, C (component cooling water pump room fans and dampers) are deleted based on analysis performed by Toledo Edison.
2. Steam Generator Drain Valves (MS4531, MS4532) and Steam Generator Drain Isolation Valves (MS603, MS611) were deleted due to the presence of a normally closed manual isolation valve in each line. This eliminates the concern of spurious valve operation causing a Steam Generator blowdown.
3. Reactor Coolant Pump Component Cooling Water (CCW) Outlet Isolation Valves (CC4100, CC4200, CC4300, CC4400) were deleted since CCW cooling to the seals is no longer accredited for safe shutdown.
4. The 4160V transfer switchgear (CD) was deleted since the installed spare Service Water Pump and spare Component Cooling Water Pump can be powered through this mechanical transfer device from upstream buses C1 or D1 which are both identified in the analysis.
5. The alternate feeds from DC MCCs to the essential DC distribution panels were deleted since the alternate supply fuses have been removed for channel separation reasons. Therefore, no credit was taken for these disconnected cables.

<u>From</u>	<u>To</u>	<u>Cable</u>
DC MCC1	D2P	1PD102A
DC MCC1	D2N	1PD133A
DC MCC2	D1P	2PD201A
DC MCC2	D1N	2PD232A

6. EF15 was deleted since it is not a separate MCC. The cables serve only Containment Air Cooler (CAC) C1-3 and the essential power entry was a duplicate of the CAC entry. The control circuits are in E15 and F15 for CAC C1-3 which acts as the power supply. EF15 has no automatic controls and is used for manual transfer to maintain train separation.
7. PIRC2A3, PIRC2A4, PIRC2B3 (RCS Coolant Pressure Indicator) and PTRC2A3, PTRC2A4 and PTRC2B3 (RCS Coolant Pressure Instrument) were deleted because they duplicate NNI entries.
8. C5761A, C5762A Log, C5762A Rel, C5792 Log, C5792 Rel, C5792A (SFRCS relay and logic panels) were deleted and replaced by new cabinet designations and descriptions consistent with a recent modification. The new cabinets were listed in the essential power system since the circuits from these cabinets serve various other systems, not just SFRCS.

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AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DEVIS BROSS UNIT 1
 SYSTEM - AEMS

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC. OF COMP.	MODEL POSITION	SOLUTION POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SOLUTION FOR	PERFORMANCE GOALS	REQUIRED TIME IN S.C.S.	PRIORITY	IN-TO 1-LINE	HIGHLIGHT SPURIOUS BEHAVIOR	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DRAWING	REV'S
1	AF3869	AFW 1 DIVISION TO S22	MOV	E	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14A B	1
1	AF3870	AFW 1 DIVISION TO S23	MOV	E	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14A B	2
2	AF3871	AFW 2 DIVISION TO S23	MOV	F	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14A B	2
2	AF3872	AFW 2 DIVISION TO S22	MOV	F	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14A B	2
2	AF5195	AFW TO S22 150 VLV	MOV	D1	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	2
2	AF6168	AFW TO S23 150 VLV	MOV	D6	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	2
2	AF6451	AFW 2 FLOW CTRL VLV	SON	F	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	2
1	AF6452	AFW 1 FLOW CTRL VLV	SON	E	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	2
1/2	E1807	AFWP SEAL WITH COOLERS	CLR	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	E1844-1	AFWP SEAL WITH COOLERS	CLR	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	E1844-2	AFWP SEAL WITH COOLERS	CLR	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1	F16459	AFWP FLOW CTRL VALVE	SON	E1	F40C1040	F40C1040	FD	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
2	F16460	AFWP FLOW CTRL VLV	SON	E1	F40C1040	F40C1040	FD	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
2	F16208A	AFPT 2 GEN CTRL VLV	MOV	F	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1	F16208B	AFPT 1 GEN CTRL VLV	MOV	E	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1	W5106	AFPT 1 WS IN 150 VLV	MOV	EE	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1	W5106A	AFPT 1 WS IN A-COM1	MOV	EE	C15046	C15046	AS IS	W5106	3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
2	W5107	AFPT 2 WS IN 150 VLV	MOV	EE	C15046	C15046	AS IS		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
2	W5107A	AFPT 2 WS IN A-COM1	MOV	EE	C15046	C15046	AS IS	W5107	3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1	W5107B	AFPT 1 WS IN A-COM1	MOV	E	C15046	C15046	FD		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
2	W5108	AFPT 2 STEAM ADMISS VLV	SON	F	C15046	C15046	FD		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1	P14-1	TO AUX 1W PUMP 1	PUMP	E	OFF	OFF	OFF		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
2	P14-2	TO AUX 1W PUMP 2	PUMP	F	OFF	OFF	OFF		3	N/S C/S	4	AS278	B	ELISE	198E1140A	E448/14C D	4
1/2	P241	RED DRYWELL FEED PUMP	PUMP	E1	OFF	OFF	OFF	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	P242-1	AFWP AUX LINE OIL PUMP	PUMP	E1	OFF	OFF	OFF	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	P242-2	AFWP SAUT TRAHN LO PUMP	PUMP	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	T31-1	COND S2D TANK 1-1	TANK	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4
1/2	T31-2	COND S2D TANK 1-2	TANK	E1	F40C1040	F40C1040	N/A	AFWS TRAHN 182	3	N/S C/S	3	AS280	B	ELISE	198E1140A	E448/14C D	4

PRIORITY - 1 - REQUIRED MINIMUM COMPONENT FOR SHUTDOWN; 2 - BACKUP COMPONENT; 3 - ALTERNATE SOLUTIONS COMPONENT; PERFORMANCE GOALS - 1 - REACTIVITY CONTROL; 2 - REACTOR COOL WATER SUPPLY; 3 - REACTOR COOL WATER REMOVAL; 4 - PROCESS ADMINISTRATION; 5 - SUPPORT FUNCTIONS

1 1 2

AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DAVIS BOSCO UNIT 1

SYSTEM - CREVS

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC OR COMP	NOXIAL POSITION	SHUTTING POSITION	RAISED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORMANCE GOALS	REQUIRED FOR M/S, C/S	NUMBER OF	FIELD 1-LINE	SHUTTING POSITION	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DRAWING	NOTES
1	CRS-1	CTRM EVS FAN 1	FAN	44	01Y	09	06F		5	M/S C/S	7	4027X		E12A	E000V01	32	
2	CRS-2	CTRM EVS FAN 2	FAN	79	01Y	09	06F		5	M/S C/S	7	4027X		E12A	E000V01	32	
1	E100-1	CRVCS COOLLINE COIL	HEX	44	01Y	09	06F		5	M/S C/S	7	4027X		N/A	N/A	37	
2	E100-2	CRVCS COOLLINE COIL	HEX	44	01Y	09	06F		5	M/S C/S	7	4027X		N/A	N/A	37	
1	P22-1	CRVCS FILLER BANK	SLT	44	01Y	09	06F		5	M/S C/S	7	4027X		N/A	N/A	38	
2	P22-2	CRVCS FILLER BANK	SLT	44	01Y	09	06F		5	M/S C/S	7	4027X		N/A	N/A	38	
1	S33-1	CTRM EMERG A/C UNIT 1	A/C	44	01Y	09	06F		5	M/S C/S	7	4027X		E12A E000V01 E000V02	E000V01 E000V01 E000V02	33	
2	S33-2	CTRM EMERG A/C UNIT 2	A/C	44	01Y	09	06F		5	M/S C/S	7	4027X		E12A E000V01 E000V02	E000V01 E000V01 E000V02	33	
1	S34B23A S34B27A	CRVCS CONDENSER UNIT 1 (S33-1) IN BANK	COND	44	C1000C C1000D	0909 0909	C1000C C1000D		5	M/S C/S	7	4027X		E12A E000V01 E000V02	E000V01 E000V01 E000V02	33	
2		CRVCS CONDENSER UNIT 2 (S33-2) IN BANK	COND	44	C1000C C1000D	0909 0909	C1000C C1000D		5	M/S C/S	7	4027X		E12A E000V01 E000V02	E000V01 E000V01 E000V02	33	
																34	
																34	

AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRIVE BRSSOP UNIT 1

SYSTEM - CSS

TRAIN COMPONENT	DESCRIPTION	TYPE	LOC. OF COMP.	NORMAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FIB	PERFORMANCE GOALS	RELOADED FIB W/ S. CYS	RELAYS - (CY)	WELD 1-LINE	STOCKING QUANTITY	PUMP SUPPLY	CIRCUIT BOARD	ELEMENTARY WIRING DRAWING	NOTES
1	CSS30	WV	WV	C1040	C1040	AS IS	PSB-1	N/A	N/S CYS	1	W34	0	ETC	10B1150A	E32B21A, B	0
2	CSS31	WV	WV	C1040	C1040	AS IS	PSB-2	N/A	N/S CYS	1	W34	0	ETC	10B1150A	E32B21A, B	0
3	PSB-1	PS	PS	011	011	0B	CSS30	N/A	N/S CYS	2	W34	0	ET	10B111A	E32B07A, B	0
2	PSB-2	PS	PS	011	011	0B	CSS31	N/A	N/S CYS	2	W34	0	ET	10B111A	E32B07A, B	0

PRIORITY - 1 - REDUCED MINIMUM COMPONENT FOR SHUTDOWN 2 - REDUCED COMPONENT 3 - ALTERNATE SHUTDOWN COMPONENT
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL, 2 - REACTOR COOLANT SYSTEM, 3 - REACTOR COOLANT SYSTEM, 4 - REACTOR HEAT EXCHANGER, 5 - SUPPORT FUNCTIONS

APPENDIX A

SAFE SHUTDOWN COMPONENT LIST

Debris Bypass Unit 1

SYSTEM - DHR5

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC. OR COMP.	INITIAL POSITION	SHUTDOWN POSITION	FAILED POSITION	TRIP COMPONENTS AT SEPARATE SHUTDOWNS FOR	PERFORMANCE GOALS	REQUIRED FOR M/S, C/S	PRE-SELECTIVITY	INLET 1-LINE	HIGHFLOW SPURDOLLS MONITORING	POWER SUPPLY	CIRCUITRY SCHEME	ELECTRICAL WIRING (MOM / OHT)	NOTES
2	0861A	SP1 LINE 2 VLV	MV	2B	2B	2B	AS IS		2, 3	C/S	+	4033B	SC	E11C	20901104A	E326706B	42
2	0861B	SP1 LINE 1 VLV	MV	2C	2C	2C	AS IS		2, 3	C/S	+	4033B	SC	E11A	20901104B	E326706B	42
2	0867A	BMST 150 VLV A	MV	AC	2B	2B	AS IS		2	M/S C/S	+	4033A	SC	E11B	20901104C	E326706C	43
2	0867B	BMST 150 VLV B	MV	AC	2B	2B	AS IS		2	M/S C/S	+	4033A	SC	E11B	20901104D	E326706C	43
2	0869A	CBMT SUMP 150 VLV A	MV	MA	C1000	C1000	AS IS		2	M/S C/S	+	4033C	B, SO	E11C	20901102A	E326706C	44
2	0869B	CBMT SUMP 150 VLV B	MV	MA	C1000	C1000	AS IS		2	M/S C/S	+	4033C	B, SO	E11C	20901102B	E326706C	44
2	0867	DM 000A SUCT LINE VLV	MV	D	C1000	DM000/C1000	AS IS		2, 3	C/S	+	4033B	HFI	DM11A1(BC)	20901101A	E326706A, B	45
2	0867	DM 000B SUCT LINE VLV	MV	D	C1000	DM000/C1000	AS IS		2, 3	C/S	+	4033B	HFI	DM11A1(BC)	20901101B	E326706A, B	45
2	0863A	DM CLR 2 BYPASS VLV	MV	NA	C1000	C1000	FC		2	C/S	+	4033C	SO	CS7171(AC)	20901103A	E326706C, D	46
2	0863B	DM CLR 1 BYPASS VLV	MV	NA	C1000	C1000	FC		2	C/S	+	4033C	SO	CS7171(AC)	20901103B	E326706C, D	46
2	0864A	DM CLR 2 OUT VLV	MV	AB	2B	2B	FO		2, 3	C/S	+	4033C	SC	CS762C(DC)	20901104	E326706C, D	48
2	0864B	DM CLR 1 OUT VLV	MV	AB	2B	2B	FO		2, 3	C/S	+	4033C	SC	CS762C(DC)	20901104	E326706C, D	48
2	086517	DM 000A SUCT LINE 1 VLV	MV	2B	C1000	DM000/C1000	AS IS		3	C/S	+	4033B	SC	E11D	20901102A	E326706C, D	49
2	086518	DM 000B SUCT LINE 2 VLV	MV	2B	C1000	DM000/C1000	AS IS		3	C/S	+	4033B	SC	E11D	20901102B	E326706C, D	49
2	086733	DM PUMP 1 BMST SUCT VLV	MV	AB	2B	2B	AS IS		2, 3	C/S	+	4033B	SC	E11A	20901102A	E326706C, D	46
2	086734	DM PUMP 2 BMST SUCT VLV	MV	AB	2B	2B	AS IS		2, 3	C/S	+	4033B	SC	E11A	20901102B	E326706C, D	46
1/2	086735	DM ALU1 OPEN STOP VLV	MV	D	C1000	C1000	AS IS		3	C/S	+	4033B	B, SO	E11B	20901104A	E326706C, D	47
1/2	086736	DM ALU2 OPEN STOP VLV	MV	D	C1000	C1000	AS IS		3	C/S	+	4033B	B, SO	E11B	20901104B	E326706C, D	47
2	0868	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105C	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105D	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105E	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105F	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105G	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105H	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105I	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105J	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105K	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105L	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105M	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105N	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105O	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105P	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105Q	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105R	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105S	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105T	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105U	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105V	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105W	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105X	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105Y	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901105Z	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106A	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106B	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106C	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106D	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106E	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106F	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106G	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106H	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106I	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106J	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106K	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106L	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106M	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106N	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106O	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106P	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106Q	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106R	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106S	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106T	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106U	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106V	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106W	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106X	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106Y	E326706C, D	52
2	0869	EP1/HP1 CROSS-TIE VLV	MV	A	C1000	C1000	AS IS		2, 3	C/S	+	4033B	SC	E11E	20901106Z	E326706C, D	52

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AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DAVIS BRSSO UNIT 1

SYSTEM - EDC

TRAIN	COMPONENT	DESCRIPTION	TYPE	JOC OR COMP	NORMAL POSITION	SHUTDOWN POSITION	GRADED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN EDC	PERFORMANCE GOALS	REQUIRED FOR W/S C/S	PRIORITY	PAID T-LINE	MODULES: SUPPORTS/DEPENDENCY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DRAW / SHF	NOTES
1	D41474/B	EDC 2 AIR START VLV	SDV	K	CLOS	OPEN	FC		5	W/S C/S	1	40176		CHRS(EDC)	EDC0101E	89	
2	D4148A/B	EDC 2 AIR START VLV	SDV	J	CLOS	OPEN	FC		5	W/S C/S	1	40176		CHRS(EDC)	EDC0102F	89	
3	D4149A/B	AIR START RCVR 1-1-1 D1-SCH VLV	ADN	K	FUNC(100A)	FUNC(100A)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
4	D4150A/B	AIR START RCVR 1-2-1 D1-SCH VLV	ADN	K	FUNC(100B)	FUNC(100B)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
5	D4151A/B	AIR START RCVR 1-3-1 D1-SCH VLV	ADN	K	FUNC(100C)	FUNC(100C)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
6	D4152A/B	AIR START RCVR 1-4-1 D1-SCH VLV	ADN	K	FUNC(100D)	FUNC(100D)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
7	D4153A/B	AIR START RCVR 1-5-1 D1-SCH VLV	ADN	K	FUNC(100E)	FUNC(100E)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
8	D4154A/B	AIR START RCVR 1-6-1 D1-SCH VLV	ADN	K	FUNC(100F)	FUNC(100F)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
9	D4155A/B	AIR START RCVR 1-7-1 D1-SCH VLV	ADN	K	FUNC(100G)	FUNC(100G)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
10	D4156A/B	AIR START RCVR 1-8-1 D1-SCH VLV	ADN	K	FUNC(100H)	FUNC(100H)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
11	D4157A/B	AIR START RCVR 1-9-1 D1-SCH VLV	ADN	K	FUNC(100I)	FUNC(100I)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
12	D4158A/B	AIR START RCVR 1-10-1 D1-SCH VLV	ADN	K	FUNC(100J)	FUNC(100J)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
13	D4159A/B	AIR START RCVR 1-11-1 D1-SCH VLV	ADN	K	FUNC(100K)	FUNC(100K)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
14	D4160A/B	AIR START RCVR 1-12-1 D1-SCH VLV	ADN	K	FUNC(100L)	FUNC(100L)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
15	D4161A/B	AIR START RCVR 1-13-1 D1-SCH VLV	ADN	K	FUNC(100M)	FUNC(100M)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
16	D4162A/B	AIR START RCVR 1-14-1 D1-SCH VLV	ADN	K	FUNC(100N)	FUNC(100N)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
17	D4163A/B	AIR START RCVR 1-15-1 D1-SCH VLV	ADN	K	FUNC(100O)	FUNC(100O)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
18	D4164A/B	AIR START RCVR 1-16-1 D1-SCH VLV	ADN	K	FUNC(100P)	FUNC(100P)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
19	D4165A/B	AIR START RCVR 1-17-1 D1-SCH VLV	ADN	K	FUNC(100Q)	FUNC(100Q)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
20	D4166A/B	AIR START RCVR 1-18-1 D1-SCH VLV	ADN	K	FUNC(100R)	FUNC(100R)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
21	D4167A/B	AIR START RCVR 1-19-1 D1-SCH VLV	ADN	K	FUNC(100S)	FUNC(100S)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
22	D4168A/B	AIR START RCVR 1-20-1 D1-SCH VLV	ADN	K	FUNC(100T)	FUNC(100T)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
23	D4169A/B	AIR START RCVR 1-21-1 D1-SCH VLV	ADN	K	FUNC(100U)	FUNC(100U)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
24	D4170A/B	AIR START RCVR 1-22-1 D1-SCH VLV	ADN	K	FUNC(100V)	FUNC(100V)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
25	D4171A/B	AIR START RCVR 1-23-1 D1-SCH VLV	ADN	K	FUNC(100W)	FUNC(100W)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
26	D4172A/B	AIR START RCVR 1-24-1 D1-SCH VLV	ADN	K	FUNC(100X)	FUNC(100X)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
27	D4173A/B	AIR START RCVR 1-25-1 D1-SCH VLV	ADN	K	FUNC(100Y)	FUNC(100Y)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
28	D4174A/B	AIR START RCVR 1-26-1 D1-SCH VLV	ADN	K	FUNC(100Z)	FUNC(100Z)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
29	D4175A/B	AIR START RCVR 1-27-1 D1-SCH VLV	ADN	K	FUNC(100AA)	FUNC(100AA)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
30	D4176A/B	AIR START RCVR 1-28-1 D1-SCH VLV	ADN	K	FUNC(100AB)	FUNC(100AB)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
31	D4177A/B	AIR START RCVR 1-29-1 D1-SCH VLV	ADN	K	FUNC(100AC)	FUNC(100AC)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
32	D4178A/B	AIR START RCVR 1-30-1 D1-SCH VLV	ADN	K	FUNC(100AD)	FUNC(100AD)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
33	D4179A/B	AIR START RCVR 1-31-1 D1-SCH VLV	ADN	K	FUNC(100AE)	FUNC(100AE)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
34	D4180A/B	AIR START RCVR 1-32-1 D1-SCH VLV	ADN	K	FUNC(100AF)	FUNC(100AF)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
35	D4181A/B	AIR START RCVR 1-33-1 D1-SCH VLV	ADN	K	FUNC(100AG)	FUNC(100AG)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
36	D4182A/B	AIR START RCVR 1-34-1 D1-SCH VLV	ADN	K	FUNC(100AH)	FUNC(100AH)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
37	D4183A/B	AIR START RCVR 1-35-1 D1-SCH VLV	ADN	K	FUNC(100AI)	FUNC(100AI)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
38	D4184A/B	AIR START RCVR 1-36-1 D1-SCH VLV	ADN	K	FUNC(100AJ)	FUNC(100AJ)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
39	D4185A/B	AIR START RCVR 1-37-1 D1-SCH VLV	ADN	K	FUNC(100AK)	FUNC(100AK)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
40	D4186A/B	AIR START RCVR 1-38-1 D1-SCH VLV	ADN	K	FUNC(100AL)	FUNC(100AL)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
41	D4187A/B	AIR START RCVR 1-39-1 D1-SCH VLV	ADN	K	FUNC(100AM)	FUNC(100AM)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
42	D4188A/B	AIR START RCVR 1-40-1 D1-SCH VLV	ADN	K	FUNC(100AN)	FUNC(100AN)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
43	D4189A/B	AIR START RCVR 1-41-1 D1-SCH VLV	ADN	K	FUNC(100AO)	FUNC(100AO)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
44	D4190A/B	AIR START RCVR 1-42-1 D1-SCH VLV	ADN	K	FUNC(100AP)	FUNC(100AP)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
45	D4191A/B	AIR START RCVR 1-43-1 D1-SCH VLV	ADN	K	FUNC(100AQ)	FUNC(100AQ)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
46	D4192A/B	AIR START RCVR 1-44-1 D1-SCH VLV	ADN	K	FUNC(100AR)	FUNC(100AR)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
47	D4193A/B	AIR START RCVR 1-45-1 D1-SCH VLV	ADN	K	FUNC(100AS)	FUNC(100AS)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
48	D4194A/B	AIR START RCVR 1-46-1 D1-SCH VLV	ADN	K	FUNC(100AT)	FUNC(100AT)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
49	D4195A/B	AIR START RCVR 1-47-1 D1-SCH VLV	ADN	K	FUNC(100AU)	FUNC(100AU)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
50	D4196A/B	AIR START RCVR 1-48-1 D1-SCH VLV	ADN	K	FUNC(100AV)	FUNC(100AV)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
51	D4197A/B	AIR START RCVR 1-49-1 D1-SCH VLV	ADN	K	FUNC(100AW)	FUNC(100AW)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
52	D4198A/B	AIR START RCVR 1-50-1 D1-SCH VLV	ADN	K	FUNC(100AX)	FUNC(100AX)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
53	D4199A/B	AIR START RCVR 1-51-1 D1-SCH VLV	ADN	K	FUNC(100AY)	FUNC(100AY)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
54	D4200A/B	AIR START RCVR 1-52-1 D1-SCH VLV	ADN	K	FUNC(100AZ)	FUNC(100AZ)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
55	D4201A/B	AIR START RCVR 1-53-1 D1-SCH VLV	ADN	K	FUNC(100BA)	FUNC(100BA)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
56	D4202A/B	AIR START RCVR 1-54-1 D1-SCH VLV	ADN	K	FUNC(100BB)	FUNC(100BB)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
57	D4203A/B	AIR START RCVR 1-55-1 D1-SCH VLV	ADN	K	FUNC(100BC)	FUNC(100BC)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
58	D4204A/B	AIR START RCVR 1-56-1 D1-SCH VLV	ADN	K	FUNC(100BD)	FUNC(100BD)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
59	D4205A/B	AIR START RCVR 1-57-1 D1-SCH VLV	ADN	K	FUNC(100BE)	FUNC(100BE)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
60	D4206A/B	AIR START RCVR 1-58-1 D1-SCH VLV	ADN	K	FUNC(100BF)	FUNC(100BF)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
61	D4207A/B	AIR START RCVR 1-59-1 D1-SCH VLV	ADN	K	FUNC(100BG)	FUNC(100BG)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
62	D4208A/B	AIR START RCVR 1-60-1 D1-SCH VLV	ADN	K	FUNC(100BH)	FUNC(100BH)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
63	D4209A/B	AIR START RCVR 1-61-1 D1-SCH VLV	ADN	K	FUNC(100BI)	FUNC(100BI)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
64	D4210A/B	AIR START RCVR 1-62-1 D1-SCH VLV	ADN	K	FUNC(100BJ)	FUNC(100BJ)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
65	D4211A/B	AIR START RCVR 1-63-1 D1-SCH VLV	ADN	K	FUNC(100BK)	FUNC(100BK)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
66	D4212A/B	AIR START RCVR 1-64-1 D1-SCH VLV	ADN	K	FUNC(100BL)	FUNC(100BL)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
67	D4213A/B	AIR START RCVR 1-65-1 D1-SCH VLV	ADN	K	FUNC(100BM)	FUNC(100BM)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
68	D4214A/B	AIR START RCVR 1-66-1 D1-SCH VLV	ADN	K	FUNC(100BN)	FUNC(100BN)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
69	D4215A/B	AIR START RCVR 1-67-1 D1-SCH VLV	ADN	K	FUNC(100BO)	FUNC(100BO)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
70	D4216A/B	AIR START RCVR 1-68-1 D1-SCH VLV	ADN	K	FUNC(100BP)	FUNC(100BP)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
71	D4217A/B	AIR START RCVR 1-69-1 D1-SCH VLV	ADN	K	FUNC(100BQ)	FUNC(100BQ)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
72	D4218A/B	AIR START RCVR 1-70-1 D1-SCH VLV	ADN	K	FUNC(100BR)	FUNC(100BR)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
73	D4219A/B	AIR START RCVR 1-71-1 D1-SCH VLV	ADN	K	FUNC(100BS)	FUNC(100BS)	N/A		5	W/S C/S	1	40176		N/A	N/A	89	
74	D4220A/B	AIR START RCVR 1-72-1 D1-SCH VLV															

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APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DAVIS BOSCO UNIT 1
 SYSTEM - ESSPWR

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC. OR COMP.	NORMAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN CODE	RELEASABLE CODES	REQUIRED FOR N/S-C/S	PRIOR. -1/V	FIELD 1-LINE	HIGH/Low SPECIALLY INDICATORY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DRAW /SPT	NOTES
1	IN	125VDC STATION BATTERY	BATT	Z	ON	OFF	OFF	5	N/S-C/S	1	E7			N/A	19P131A	6007	87
1	IP	125VDC STATION BATTERY	BATT	Z	ON	OFF	OFF	5	N/S-C/S	1	E7			N/A	19P131A	6007	87
2	2N	125VDC STATION BATTERY	BATT	W	ON	OFF	OFF	5	N/S-C/S	1	E7			N/A	2P0204A	6007	87
2	3N	125VDC STATION BATTERY	BATT	W	ON	OFF	OFF	5	N/S-C/S	1	E7			N/A	2P0204A	6007	87
1/2	2P	13.8 KV BUS A (BACKFEED)	SWGR	5	ON	OFF	OFF	5	N/S-C/S	2	E1/E1			DMP	19P131A	6238	205
1/2	3P	13.8 KV BUS B (BACKFEED)	SWGR	5	ON	OFF	OFF	5	N/S-C/S	2	E1/E1			DMP	19P131A	6238	205
1	CT	4 10KV AC SWGR	SWGR	5	ON	OFF	OFF	5	N/S-C/S	1	E1/E1			DMP	19P131A	6238	205
1	C2	4 10KV AC SWGR	SWGR	5	ON	OFF	OFF	5	N/S-C/S	1	E1/E1			DMP	19P131A	6238	205
1	C815	1F01-1 PANEL LIGHTS (NORN PWR)	PNL	K	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C816	1F01-2 PANEL LIGHTS (EALY PWR)	PNL	J	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C828	CONST POWER LESS METER HP1 FLOW X	PNL	R	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C829	CONST POWER LESS METER HP1 FLOW Y	PNL	R	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C830	CONST POWER TO AUX SD PANEL INST	PNL	R	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C840	CONST POWER TO AUX FR CONTROL PNL	PNL	S	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C802	NEUTRON FLOW MON. CABINET (CH 2)	PNL	DE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C803	CONST POWER TO AUX FR CONTROL PNL	PNL	X	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C808	NEUTRON FLOW MON. CABINET (CH 1)	PNL	DE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1/2	C5705	CONST POWER (PUREV IND LIGHTS)	PNL	EE	ON	OFF	OFF	2	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5706	AC CONST PWR (536407 INDICATION)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5716	CONTROL ROOM SFAS PANEL	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5717	CONST POWER SV IND LIGHTS	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5753C	SEAS POWERED SV CH 2	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5753D	SEAS LOGIC ACTIVATED CH 2	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5753E	CONTROL ROOM REACT PROT SVS PNL (CH 2)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5753F	POST ACCIDENT MON. BACK (CH 2)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C57540	SEAS LOGIC ACTIVATED CH 2	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5759K	CH 8 INST PWR (BICS LDDP 2 TEMP. P2200A)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5759L	INST POWER INH-X BUS	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C57600	CONST POWER TO C5759B	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1/2	C57614	CH 1 SFBCS SMTR B LOGIC	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5762A	CONTROL POWER TO SFBCS CH2 RELAY	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5762C	SEAS POWERED SV CH 1	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5762D	SEAS LOGIC ACTIVATED CH 1	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5762E	CONTROL ROOM REACT PROT SVS PNL (CH 1)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5763A	POST ACCIDENT MON. SVS PNL (CH 1)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
1	C5763B	SEAS POWERED SV CH 1	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81
2	C5763D	CONTROL ROOM SFBCS CABINET (CH 2)	PNL	EE	ON	OFF	OFF	5	N/S-C/S	1	E7			V1	19P131A	6238	81

PRIORITY - 1 - REQUIRED WITHIN COMPONENT FOR SHUTDOWN; 2 - BACKUP COMPONENT; 3 - ALTERNATE SHUTDOWN COMPONENT; 4 - PROCESS INDICATING; 5 - SUPPORT FUNCTIONS
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL; 2 - REACTOR CONTROL; 3 - REACTOR CONTROL; 4 - PROCESS INDICATING; 5 - SUPPORT FUNCTIONS

2 1 1 1 3 1 3 1 3 1

AREA OPTIMIZATION

SAFE SHUTDOWN COMPONENT LIST

APPENDIX A

SYSTEM - ESSPWR

ITERATION	COMPONENT	DESCRIPTION	TYPE	LOC. OF COMP.	NORMAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORMANCE GOALS	REQUIRED FOR MVS C/S	PRIORITY	FIELD V-LINE	HIGH/LOW SENSITIVITY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY TESTING DEMO / SHUT	NOTES
1/2	CS792A	ON 2 SPARES INTER & LOGIC	PNE	FE	ON	OFF	OFF		5	MVS C/S	1	E7		V2	2C7215B	E641A/2A	108
2	CS796	POST ACCIDENT MON. IND. PNE (CSD)	PNE	FE	ON	ON	OFF		5	MVS C/S	1	N/A		W2	2C7211A	E641A/2A	108
1	CS799	POST ACCIDENT MON. IND. PNE (CST)	PNE	FE	ON	ON	OFF		5	MVS C/S	1	N/A		V2A	2C7211B	E641A/2B	108
1	CR708	CTRM EMERGENCY HVAC CONTROL PANEL	PNE	HH	ON	OFF	OFF		5	MVS C/S	1	E601		V18	1C707AA	E600A	5-153
2	CR709	CTRM EMERGENCY HVAC CONTROL PANEL	PNE	HH	ON	OFF	OFF		5	MVS C/S	1	E601		V18	1C707AA	E600A	5-153
1	CR714	CTRM EMERGENCY HVAC CONTROL PANEL	PNE	HH	ON	ON	OFF		5	MVS C/S	1	E601		V2	2C7204A	E641A/1A	201
2	CR715	CTRM EMERGENCY HVAC CONTROL PANEL	PNE	HH	ON	ON	OFF		5	MVS C/S	1	E601		V1	1C7065B	E641A/2A	201
1	CR-116-1	CONTROL POWER (LOADS 40V-55V)	PNE	V	ON	OFF	ON		5	MVS C/S	1	E52B/2P		CS707B	2C7204B	E641A/1A	201
1	CR-116-2	CONTROL POWER (LOADS 40V-55V)	PNE	V	ON	OFF	ON		5	MVS C/S	1	E52B/2P		CS707B	2C7204B	E641A/1A	201
1	CR-12A-1	DEP. CONTROL POWER TO AWP CONV. (1-C03030)	PNE	V	ON	ON	OFF		5	MVS C/S	1	E40B/11C		V1	1C7117C	E641A/1A	5
2	CR-11A-1	CONTROL DISCONNECT TRANSFER SWITCH	PNE	DF	ON	ON	OFF		5	MVS C/S	1	N/A		V2	1C7117D	E641A/1A	3
1	CR-12A-2	DEP. CONTROL POWER TO AWP CONV. (1-C03030)	PNE	X	ON	ON	OFF		5	MVS C/S	1	E40B/11C		V2	2C7214B	E641A/2A	70
2	CR-12A-3	DEP. CONTROL POWER TO AWP CONV. (1-C03030)	PNE	Q	ON	ON	OFF		5	MVS C/S	1	E1V1		V2	2C7214C	E641A/2A	70
1	D1N	125VDC B-15T PNE	MCC	BB	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	70
1	D1NA	125VDC B-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	70
1	D1P	125VDC B-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	70
2	D2	4.16KV SWGR	SWGR	Q	ON	ON	OFF	40VMS TRAIN 1&2	5	MVS C/S	3	E1V1		DC MCC 1	2C02030	E640/2A	82
2	D2N	125VDC D-15T PNE	MCC	AA	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
2	D2P	125VDC D-15T PNE	MCC	X	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	D3N	125VDC D-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	D3P	125VDC D-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	D4N	125VDC D-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	D4P	125VDC D-15T PNE	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	D5N	125VDC BATTERY CHARGER	MORG	V	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	86A
1	D5P	125VDC BATTERY CHARGER	MORG	V	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	86A
1	D6N	125VDC BATTERY CHARGER	MORG	X	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	2	E7		DC MCC 1	2C02030	E640/2A	86A
1	D6P	125VDC BATTERY CHARGER	MORG	X	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	2	E7		DC MCC 1	2C02030	E640/2A	86A
2	D7N	125VDC BATTERY CHARGER	MORG	X	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	2	E7		DC MCC 1	2C02030	E640/2A	86A
2	D7P	125VDC BATTERY CHARGER	MORG	X	FORCE (ON)	FORCE (ON)	OFF		5	MVS C/S	2	E7		DC MCC 1	2C02030	E640/2A	86A
1	D8N	125VDC D-15T PNE	MCC	X	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	86A
1	D8P	125VDC D-15T PNE	MCC	X	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	86A
1	DC MCC 1	250V/125V DC MCC	MCC	V	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 1	2C02030	E640/2A	86A
2	DC MCC 2	250V/125V DC MCC	MCC	X	ON	ON	OFF		5	MVS C/S	1	E7		DC MCC 2	2C02030	E640/2A	86A
1	E1	400 VAC MCC E1	SWGR	V	ON	ON	OFF		5	MVS C/S	1	E1V1		DC MCC 1	2C02030	E640/2A	86A

PRIORITY - 1 - REQUIRED ALTERNATE COMPONENT FOR SHUTDOWN 2 - BACKUP COMPONENT 3 - ALTERNATE SHUTDOWN COMPONENT
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL 2 - REACTOR CONTROL/RELIEF 3 - REACTOR HEAT REMOVAL 4 - PROCESS MONITORING 5 - SUPPORT FUNCTIONS

2 1 1 1 1 1 1 1 1 2

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

ORNL BSSSD UNIT 1
 SYSTEM - ESSWGR

AREA OPTIMIZATION

TRAIL#	COMPONENT	DESCRIPTION	TYPE	LOC. OR COMP.	NORMAL POSITION	SAFETY POSITION	TRIP POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORM. GOALS	REQUIRED FOR M/S C/S	PERIOD - ITS	DELTA S-LINE	ALTERNATE OPERABLES INDICATED	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DIAGRAM / SHF	NOTES
2	254000	CONTROL POWER (R1C2A - P000)	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	85
1	254001	DC CONT PNE TO DEARM (R1C40S, R1C40R)	PNE	DC	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	5, 172
1/2	254002	DC CONT PNE TO MTRC, SG TRN (R1C1)	PNE	V	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	1, 34
1	254003	DC CONT PNE TO MTRC, SG TRN (R1C2)	PNE	V	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	1, 35
1	254004	CONSTANT VOLT TRANSFORMER (CVT ON 200V)	PNE	DC	ON	OFF	OFF	BACKFEED C2/02	5	M/S C/S	2	87		2000V27A	2000V27A	E640/4A	70
2	254005	CONSTANT VOLT TRANSFORMER (CVT ON 200V)	PNE	DC	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254006	CONSTANT VOLT TRANSFORMER (CVT ON 200V)	PNE	DC	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254007	CONSTANT VOLT TRANSFORMER (CVT ON 200V)	PNE	DC	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254008	CONSTANT VOLT TRANSFORMER (CVT ON 200V)	PNE	DC	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254009	120VAC DIST PNE	PNE	V	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254010	120VAC DIST PNE	PNE	V	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254011	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254012	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254013	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254014	120VAC DIST PNE	PNE	BB	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254015	120VAC DIST PNE	PNE	BB	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254016	120VAC DIST PNE	PNE	AA	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254017	120VAC DIST PNE	PNE	AA	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254018	120VAC DIST PNE	PNE	V	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254019	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
2	254020	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254021	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254022	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254023	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254024	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254025	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254026	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254027	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254028	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254029	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254030	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254031	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254032	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254033	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254034	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254035	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254036	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254037	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254038	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254039	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254040	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254041	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254042	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254043	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254044	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254045	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254046	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254047	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254048	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254049	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254050	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254051	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254052	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254053	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254054	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254055	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254056	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254057	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254058	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254059	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254060	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254061	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254062	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254063	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254064	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254065	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254066	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254067	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254068	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254069	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254070	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1	254071	120VAC DIST PNE	PNE	X	ON	OFF	OFF		5	M/S C/S	1	87		2000V27A	2000V27A	E640/4A	70
1																	

APPENDIX A
SAFE SHUTDOWN COMPONENT LIST

Devils Bessie Unit 1
SYSTEM - HPIS

TURBIN COMPONENT	DESCRIPTION	TYPE	LOC OR COMP	MODEL POSITION	SHUTDOWN POSITION	EXISTED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PRIORITY RANGES GOALS	REQUIRED FOR HPIS CFS	PROBABILITY	FIELD 1-LINE	HIGHLOW SIGNALS/LOGS/INDICATOR	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING DRAWING	NOTES
2	HPIS 2 015024 150 VLV	MOV	DB	C10500	DB00	NS IS	HP02B	1,2	NS CFS	1	4033A		E11C	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	DB	C10500	DB01	NS IS	HP02B	1,2	NS CFS	1	4033A		E11C	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	DB	C10500	DB02	NS IS	HP02B	1,2	NS CFS	1	4033A		E11C	2000-1130A	E1200/20A B	0
1	HPIS 1 015024 150 VLV	MOV	DC	C10500	DB00	NS IS	HP02L	1,2	NS CFS	1	4033A	SC	E11A	2000-1130A	E1200/20A B	0
1	HPIS 1 015024 150 VLV	MOV	DC	C10500	DB01	NS IS	HP02L	1,2	NS CFS	1	4033A	SC	E11A	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	A	DB00	DB00	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	A	DB01	DB01	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
1	HPIS 1 015024 150 VLV	MOV	AB	DB00	DB00	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
1	HPIS 1 015024 150 VLV	MOV	AB	DB01	DB01	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
1	HPIS 1 015024 150 VLV	MOV	AB	DB02	DB02	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	A	DB00	DB00	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	A	DB01	DB01	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0
2	HPIS 2 015024 150 VLV	MOV	A	DB02	DB02	NS IS	HP02L	1,2	NS CFS	1	4033A		E11A	2000-1130A	E1200/20A B	0

PRIORITY - 1 - REQUIRED WITHIN COMPONENT FOR SHUTDOWN; 2 - BACKUP COMPONENT; 3 - ALTERNATE SHUTDOWN COMPONENT
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL; 2 - REACTOR CORE/HEATUP; 3 - REACTOR HEAT REMOVAL; 4 - PROCESS ADJUSTING; 5 - SUPPORT FUNCTIONS

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRUIS BROSS UNIT 1
 SYSTEM - HVAC

AREA OPTIMIZATION

TRAIN	COMPONENT	DESCRIPTION	TYPE	EUC OR COMP	NORMAL POSITION	SAFETY POSITION	CLASSIFIED FUNCTION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORMANCE GOALS	REQUIRED FOR W/S, C/S	PERIOD -1TY	PHYS 1-LINE	HIGH LOW, SPURIOUS, INDETERMINATE	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING CODE / JSH	NOTES
1	C230	TRAV 522 AREA EXH FAN (R/U) OR PUMP	FAN	RD	ON/OFF	ON/OFF	OFF		5	W/S C/S	3	40270		E12D	E400/51	118	
1	C231	LV SHCD 04 VENT FAN 2	FAN	EE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		F12A	E400/52	100	
1	C232	EDC 04 1 VENT FAN 1	FAN	K	ON/OFF	ON	OFF		5	W/S C/S	4	40270		F12B	E400/53	98	
1	C233	EDC 04 2 VENT FAN 2	FAN	K	ON/OFF	ON	OFF		5	W/S C/S	4	40270		F12B	E400/54	98	
1	C234	EDC 04 3 VENT FAN 3	FAN	J	ON/OFF	ON	OFF		5	W/S C/S	4	40270		F12B	E400/55	98	
1	C235	EDC 04 4 VENT FAN 4	FAN	J	ON/OFF	ON	OFF		5	W/S C/S	4	40270		F12B	E400/56	98	
1	C236	LV SHCD 04 VENT FAN 1	FAN	V	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12A	E400/48	100	
1	C237	LV SHCD 04 VENT FAN 2	FAN	V	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12A	E400/49	101	
1	C238	LV SHCD 04 VENT FAN 3	FAN	V	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12A	E400/50	101	
1	C239	LV SHCD 04 VENT FAN 4	FAN	V	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12A	E400/51	101	
1	C240	LV SHCD 04 VENT FAN 1	FAN	W	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12B	E400/52	103	
1	C241	LV SHCD 04 VENT FAN 2	FAN	W	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12B	E400/53	103	
1	C242	LV SHCD 04 VENT FAN 3	FAN	W	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12B	E400/54	103	
1	C243	LV SHCD 04 VENT FAN 4	FAN	W	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12B	E400/55	103	
1	C244	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/56	105	
1	C245	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/57	105	
1	C246	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/58	105	
1	C247	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/59	105	
1	C248	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/60	105	
1	C249	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/61	105	
1	C250	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/62	105	
1	C251	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/63	105	
1	C252	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/64	105	
1	C253	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/65	105	
1	C254	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/66	105	
1	C255	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/67	105	
1	C256	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/68	105	
1	C257	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/69	105	
1	C258	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/70	105	
1	C259	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/71	105	
1	C260	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/72	105	
1	C261	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/73	105	
1	C262	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/74	105	
1	C263	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/75	105	
1	C264	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/76	105	
1	C265	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/77	105	
1	C266	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/78	105	
1	C267	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/79	105	
1	C268	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/80	105	
1	C269	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/81	105	
1	C270	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/82	105	
1	C271	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/83	105	
1	C272	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/84	105	
1	C273	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/85	105	
1	C274	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/86	105	
1	C275	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/87	105	
1	C276	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/88	105	
1	C277	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/89	105	
1	C278	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/90	105	
1	C279	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/91	105	
1	C280	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/92	105	
1	C281	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/93	105	
1	C282	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/94	105	
1	C283	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/95	105	
1	C284	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/96	105	
1	C285	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/97	105	
1	C286	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/98	105	
1	C287	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/99	105	
1	C288	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/100	105	
1	C289	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/101	105	
1	C290	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/102	105	
1	C291	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/103	105	
1	C292	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/104	105	
1	C293	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/105	105	
1	C294	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/106	105	
1	C295	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/107	105	
1	C296	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/108	105	
1	C297	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/109	105	
1	C298	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/110	105	
1	C299	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/111	105	
1	C300	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/112	105	
1	C301	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/113	105	
1	C302	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/114	105	
1	C303	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/115	105	
1	C304	LV SHCD 04 VENT FAN 1	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/116	105	
1	C305	LV SHCD 04 VENT FAN 2	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/117	105	
1	C306	LV SHCD 04 VENT FAN 3	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270		E12C	E400/118	105	
1	C307	LV SHCD 04 VENT FAN 4	FAN	BE	ON/OFF	ON	OFF		5	W/S C/S	4	40270</					

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AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DNVS BROSS UNIT 1

SYSTEM - MSS

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC OF COMP	NORMAL POSITION	SAFETY POSITION	FAILED POSITION	TEST COMPONENT ALTERNATE SAFETY FOR	PERIODIC ASSESS GOALS	REQUIRED END N/S C/S	PRELIM -1TN	VALID 1-1-LINE	MINIMUM OPERATING HOURS	POWER SUPPLY	CIRCUIT SYMBOL	ELEMENTARY WIRING DRAW /301	NOTES
2	ICS114	MSL 2 418 150V 15V	SNV	DM	C1000	C1000	PC		3	N/S C/S	1	MS07A		CS7001AC	20VCS114C	1400/70A, B	124
1	ICS118	MSL 1 418 150V 15V	SNV	DM	C1000	C1000	PC		3	N/S C/S	1	MS07A		CS7001AC	20VCS114C	1400/70A, B	124
2	MS100	MSL 3 150 15V (S11000)	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
2	MS100-1	MSL 1 150 15V	SNV	DM	C1000	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS101	MSL 1 150 15V (HARDWIRING L1001)	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS101-1	MSL 1 150 15V	SNV	DM	C1000	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
2	MS102	MSL 2 150 15V	SNV	DM	C1000	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	121
1	MS103	MSL 3 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS104	MSL 4 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS105	MSL 5 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS106	MSL 6 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS107	MSL 7 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS108	MSL 8 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS109	MSL 9 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS110	MSL 10 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS111	MSL 11 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS112	MSL 12 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS113	MSL 13 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS114	MSL 14 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS115	MSL 15 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS116	MSL 16 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS117	MSL 17 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS118	MSL 18 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS119	MSL 19 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS120	MSL 20 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS121	MSL 21 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS122	MSL 22 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS123	MSL 23 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS124	MSL 24 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS125	MSL 25 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS126	MSL 26 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS127	MSL 27 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS128	MSL 28 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS129	MSL 29 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS130	MSL 30 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS131	MSL 31 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS132	MSL 32 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS133	MSL 33 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS134	MSL 34 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS135	MSL 35 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS136	MSL 36 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS137	MSL 37 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS138	MSL 38 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS139	MSL 39 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS140	MSL 40 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS141	MSL 41 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS142	MSL 42 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS143	MSL 43 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS144	MSL 44 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS145	MSL 45 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS146	MSL 46 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS147	MSL 47 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS148	MSL 48 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS149	MSL 49 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS150	MSL 50 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS151	MSL 51 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS152	MSL 52 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS153	MSL 53 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS154	MSL 54 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS155	MSL 55 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS156	MSL 56 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS157	MSL 57 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS158	MSL 58 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS159	MSL 59 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS160	MSL 60 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS161	MSL 61 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS7021	20VCS114C	1400/70A, B	120
1	MS162	MSL 62 150 15V	SNV	DM	MS00	C1000	PC		3	N/S C/S	1	MS03A		CS			

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APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRYERS BRASS UNIT 1
 SYSTEM - MIP/S

AREA OPTIMIZATION

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC COMP	ORIG. POSITION	SAFETY POSITION	RAISED POSITION	THIS COMPONENT ACCEPTS CATEGORY FOR	PERFORM. GOALS	REQUIRED P/S	PRELIM. -ITY	VALID T-LINE	HIGH/LW. OPERATIONS MODE/STANBY	FORMER SUPPLY	CREDITIVE SOURCE	ELEMENTARY WRENCH DRAIN /PART	NOTES
1	125-1	LETDOWN COOLER 1-1	CLR	D	FUNCT/DRN	QA	QA	1	2	M/S CFS	1	4031A		N/A	N/A	N/A	144
2	125-2	LETDOWN COOLER 1-2	CLR	D	FUNCT/DRN	QA	QA	1	2	M/S CFS	1	4031A		N/A	N/A	N/A	145
2	126-1	SEP SEAL COOLER 1	CLR	DC	FUNCT/DRN	QA	QA	1	2	M/S CFS	1	4031B		N/A	N/A	N/A	146
2	126-2	SEP SEAL COOLER 2	CLR	DC	FUNCT/DRN	QA	QA	1	2	M/S CFS	1	4031B		N/A	N/A	N/A	147
1/2	127-1	PURIFICATION DRAIN FILTER 1-1	FLT	C	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031A		N/A	N/A	N/A	148
1/2	127-2	SEAL INJECT FLY 1-1	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	149
1/2	127-3	SEAL INJECT FLY 1-2	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	150
1/2	127-4	SEAL INJECT FLY 1-3	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	151
1/2	127-5	SEAL INJECT FLY 1-4	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	152
1/2	127-6	SEAL INJECT FLY 1-5	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	153
1/2	127-7	SEAL INJECT FLY 1-6	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	154
1/2	127-8	SEAL INJECT FLY 1-7	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	155
1/2	127-9	SEAL INJECT FLY 1-8	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	156
1/2	127-10	SEAL INJECT FLY 1-9	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	157
1/2	127-11	SEAL INJECT FLY 1-10	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	158
1/2	127-12	SEAL INJECT FLY 1-11	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	159
1/2	127-13	SEAL INJECT FLY 1-12	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	160
1/2	127-14	SEAL INJECT FLY 1-13	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	161
1/2	127-15	SEAL INJECT FLY 1-14	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	162
1/2	127-16	SEAL INJECT FLY 1-15	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	163
1/2	127-17	SEAL INJECT FLY 1-16	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	164
1/2	127-18	SEAL INJECT FLY 1-17	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	165
1/2	127-19	SEAL INJECT FLY 1-18	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	166
1/2	127-20	SEAL INJECT FLY 1-19	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	167
1/2	127-21	SEAL INJECT FLY 1-20	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	168
1/2	127-22	SEAL INJECT FLY 1-21	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	169
1/2	127-23	SEAL INJECT FLY 1-22	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	170
1/2	127-24	SEAL INJECT FLY 1-23	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	171
1/2	127-25	SEAL INJECT FLY 1-24	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	172
1/2	127-26	SEAL INJECT FLY 1-25	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	173
1/2	127-27	SEAL INJECT FLY 1-26	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	174
1/2	127-28	SEAL INJECT FLY 1-27	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	175
1/2	127-29	SEAL INJECT FLY 1-28	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	176
1/2	127-30	SEAL INJECT FLY 1-29	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	177
1/2	127-31	SEAL INJECT FLY 1-30	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	178
1/2	127-32	SEAL INJECT FLY 1-31	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	179
1/2	127-33	SEAL INJECT FLY 1-32	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	180
1/2	127-34	SEAL INJECT FLY 1-33	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	181
1/2	127-35	SEAL INJECT FLY 1-34	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	182
1/2	127-36	SEAL INJECT FLY 1-35	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	183
1/2	127-37	SEAL INJECT FLY 1-36	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	184
1/2	127-38	SEAL INJECT FLY 1-37	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	185
1/2	127-39	SEAL INJECT FLY 1-38	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	186
1/2	127-40	SEAL INJECT FLY 1-39	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	187
1/2	127-41	SEAL INJECT FLY 1-40	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	188
1/2	127-42	SEAL INJECT FLY 1-41	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	189
1/2	127-43	SEAL INJECT FLY 1-42	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	190
1/2	127-44	SEAL INJECT FLY 1-43	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	191
1/2	127-45	SEAL INJECT FLY 1-44	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	192
1/2	127-46	SEAL INJECT FLY 1-45	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	193
1/2	127-47	SEAL INJECT FLY 1-46	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	194
1/2	127-48	SEAL INJECT FLY 1-47	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	195
1/2	127-49	SEAL INJECT FLY 1-48	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	196
1/2	127-50	SEAL INJECT FLY 1-49	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	197
1/2	127-51	SEAL INJECT FLY 1-50	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	198
1/2	127-52	SEAL INJECT FLY 1-51	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	199
1/2	127-53	SEAL INJECT FLY 1-52	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	200
1/2	127-54	SEAL INJECT FLY 1-53	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	201
1/2	127-55	SEAL INJECT FLY 1-54	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	202
1/2	127-56	SEAL INJECT FLY 1-55	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	203
1/2	127-57	SEAL INJECT FLY 1-56	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	204
1/2	127-58	SEAL INJECT FLY 1-57	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	205
1/2	127-59	SEAL INJECT FLY 1-58	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	206
1/2	127-60	SEAL INJECT FLY 1-59	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	207
1/2	127-61	SEAL INJECT FLY 1-60	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	208
1/2	127-62	SEAL INJECT FLY 1-61	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	209
1/2	127-63	SEAL INJECT FLY 1-62	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	210
1/2	127-64	SEAL INJECT FLY 1-63	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	211
1/2	127-65	SEAL INJECT FLY 1-64	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	212
1/2	127-66	SEAL INJECT FLY 1-65	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	213
1/2	127-67	SEAL INJECT FLY 1-66	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	214
1/2	127-68	SEAL INJECT FLY 1-67	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	215
1/2	127-69	SEAL INJECT FLY 1-68	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	216
1/2	127-70	SEAL INJECT FLY 1-69	FLY	V	FUNCT/DRN	QA	QA	1	1,2	M/S CFS	1	4031B		N/A	N/A	N/A	217

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AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRVIS BESSD UNIT 1

SYSTEM - NI

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC OR COMP	NORMAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORMANCE GOALS	REQUIRED FOR NPS C/S	RELIABILITY	FIELD T-LINE	ALTERNATE SOURCES/RELIABILITY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WORKING DRAW / SHEET	NPDES
1	NI-SEP4A	SOURCE RANGE 1ND	1ND	FF	OFF	OFF	OFF	NI-SEP4A	4	NPS C/S	2	NI-SEP4		CB003	NI-SEP4A	E1040V1	153
1	NI-SEP4B	LOCAL SOURCE RANGE 1ND	1ND	DG	ON	ON	OFF	NI-SEP4B	4	NPS C/S	1	NI-SEP4		TT1	E1040V1	E1040V1	153
2	NI-SEP5A	SOURCE RANGE 1ND	1ND	FF	OFF	OFF	OFF	NI-SEP5A	4	NPS C/S	2	NI-SEP5		CB003	E1040V3	E1040V3	153
2	NI-SEP5B	LOCAL SOURCE RANGE 1ND	1ND	DF	ON	ON	OFF	NI-SEP5B	4	NPS C/S	1	NI-SEP5		TT1	E1040V3	E1040V3	153
2	NI-N11	SOURCE RANGE 1ND	1ND	FF	ON	ON	OFF	NI-N11	4	NPS C/S	1	NI-N11		CB703	E1040V3	E1040V3	153
1	NI-N12	SOURCE RANGE 1ND	1ND	FF	ON	ON	OFF	NI-N12	4	NPS C/S	1	NI-N12		CB702	E1040V3	E1040V3	153

PERFORMANCE GOALS - 1 - REACTIVITY CONTROL, 2 - REACTOR CONTROL, 3 - REACTOR SHUTDOWN, 4 - REACTOR SHUTDOWN COMPONENT
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL, 2 - REACTOR CONTROL, 3 - REACTOR SHUTDOWN, 4 - REACTOR SHUTDOWN COMPONENT

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DAVIS BOSSE UNIT 1
 SYSTEM - NNI

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC OR COMP	NORMAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORM RANGE GOALS	REQUIRED FOR N.S.C.S	PRETRIP -STY	FIELD T-LINE	HIGH/LOW SENSITIVITY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY INTERLOCKING / SFT	NOTES
2	FI-M029	MEP TRAIN 2 FLOW IND	IND	FF	ON	ON	OFF		4	NVS C/S	1	4021C		CS760D	AL001822P	1602B/11	163
2	FI-M03A	MEP TRAIN 2 FLOW IND	IND	FF	ON	ON	OFF		4	NVS C/S	1	4021C		CS760D	21-18015A	1602B/12	163
1	FI-M03B	DC HI FLOW HI RANGE	IND	FF	ON	ON	OFF		4	NVS C/S	1	4021C		CS760D	21-18015B	1602B/13	163
1	FI-M03C	DC HI FLOW LOW RANGE	IND	FF	ON	ON	OFF		4	NVS C/S	1	4021C		CS760D	21-18015C	1602B/14	163
2	FI-M0403A	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015D	1602B/15	163
2	FI-M0403B	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015E	1602B/16	163
2	FI-M0403C	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015F	1602B/17	163
2	FI-M0403D	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015G	1602B/18	162
2	FI-M0403E	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015H	1602B/19	162
2	FI-M0403F	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015I	1602B/20	162
2	FI-M0403G	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015J	1602B/21	162
2	FI-M0403H	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015K	1602B/22	162
2	FI-M0403I	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015L	1602B/23	162
2	FI-M0403J	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015M	1602B/24	162
2	FI-M0403K	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015N	1602B/25	162
2	FI-M0403L	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015O	1602B/26	162
2	FI-M0403M	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015P	1602B/27	162
2	FI-M0403N	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015Q	1602B/28	162
2	FI-M0403O	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015R	1602B/29	162
2	FI-M0403P	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015S	1602B/30	162
2	FI-M0403Q	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015T	1602B/31	162
2	FI-M0403R	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015U	1602B/32	162
2	FI-M0403S	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015V	1602B/33	162
2	FI-M0403T	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015W	1602B/34	162
2	FI-M0403U	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015X	1602B/35	162
2	FI-M0403V	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015Y	1602B/36	162
2	FI-M0403W	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18015Z	1602B/37	162
2	FI-M0403X	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016A	1602B/38	162
2	FI-M0403Y	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016B	1602B/39	162
2	FI-M0403Z	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016C	1602B/40	162
2	FI-M0404A	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016D	1602B/41	162
2	FI-M0404B	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016E	1602B/42	162
2	FI-M0404C	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016F	1602B/43	162
2	FI-M0404D	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016G	1602B/44	162
2	FI-M0404E	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016H	1602B/45	162
2	FI-M0404F	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016I	1602B/46	162
2	FI-M0404G	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016J	1602B/47	162
2	FI-M0404H	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016K	1602B/48	162
2	FI-M0404I	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016L	1602B/49	162
2	FI-M0404J	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016M	1602B/50	162
2	FI-M0404K	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016N	1602B/51	162
2	FI-M0404L	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016O	1602B/52	162
2	FI-M0404M	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016P	1602B/53	162
2	FI-M0404N	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016Q	1602B/54	162
2	FI-M0404O	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016R	1602B/55	162
2	FI-M0404P	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016S	1602B/56	162
2	FI-M0404Q	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016T	1602B/57	162
2	FI-M0404R	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016U	1602B/58	162
2	FI-M0404S	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016V	1602B/59	162
2	FI-M0404T	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016W	1602B/60	162
2	FI-M0404U	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016X	1602B/61	162
2	FI-M0404V	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016Y	1602B/62	162
2	FI-M0404W	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18016Z	1602B/63	162
2	FI-M0404X	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017A	1602B/64	162
2	FI-M0404Y	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017B	1602B/65	162
2	FI-M0404Z	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017C	1602B/66	162
2	FI-M0405A	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017D	1602B/67	162
2	FI-M0405B	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017E	1602B/68	162
2	FI-M0405C	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017F	1602B/69	162
2	FI-M0405D	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017G	1602B/70	162
2	FI-M0405E	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017H	1602B/71	162
2	FI-M0405F	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017I	1602B/72	162
2	FI-M0405G	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017J	1602B/73	162
2	FI-M0405H	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017K	1602B/74	162
2	FI-M0405I	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017L	1602B/75	162
2	FI-M0405J	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017M	1602B/76	162
2	FI-M0405K	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017N	1602B/77	162
2	FI-M0405L	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017O	1602B/78	162
2	FI-M0405M	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017P	1602B/79	162
2	FI-M0405N	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2	NVS C/S	1	4023A		CS760D	21-18017Q	1602B/80	162
2	FI-M0405O	MEP FLOW INDICATION	IND	FF	ON	ON	OFF		1, 2								

AREA OPTIMIZATION

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRVIS BROSS UNIT 1
 SYSTEM - RCS

TRAIN	COMPONENT	DESCRIPTION	TYPE	LOC OR COMP	MECHANICAL POSITION	SHUTDOWN POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN JOB	PERFORMANCE GOALS	REQUIRED FOR M/S, C/S	PRIORITY	FIELD 1-4 THE	HIGH/LOW, SPURIOUS, BOUNDARY	POWER SUPPLY	CIRCUIT SCHEME	ELEMENTARY WIRING (DRAW / SHEET)	NOTES
1	BC114	POW BLOCK VLV	MOV	D	OPEN	OPEN/CLOSE	AS IS		2	M/S C/S	1	4020A	N/L	E168	1988-002A	E528/72	176
2	BC130	MCS CODE SAFETY VALVE	SV	D	CLOSE	CLOSE	CLOSE		3	M/S C/S	1	4020A		N/A	N/A	N/A	204
1/2	BC147	MCS CODE SAFETY VALVE	SV	D	CLOSE	CLOSE	CLOSE		3	M/S C/S	1	4020A		N/A	N/A	N/A	204
2	BC200	PROCESSOR VENT BRADER CONTROL VLV	MOV	D	OPEN	OPEN	AS IS	BC240	2	M/S C/S	3	4020A	B	N/A	N/A	N/A	204
2	BC230A	P20 SAMP. CHAT VENT 400 VLV	MOV	D	CLOSE	OPEN/CLOSE	AS IS		2	M/S C/S	1	4020A	N/L SO	E12A	208-1285	E528/11	172
2	BC230B	P20 SAMP. CHAT VENT 400 VLV	MOV	D	CLOSE	OPEN/CLOSE	AS IS	BC200	2	M/S C/S	1	4020A	N/L SO	E11A	208-1135A	E528/148	172
2	BC239B	P20 L10L10 SAMP. VLV	MOV	D	CLOSE	CLOSE	AS IS	BC200	2	M/S C/S	1	4020A	N/L SO	E11A	208-1137A	E528/14	172
2	BC24	P20 PROB	SON	D	CLOSE	OPEN/CLOSE	FC		2	M/S C/S	1	4020A	N/L SO	BC200	BC200	E528/13	171
2	BC460B8A	SG 1 HI-PT VENT VLV	SON	D	CLOSE	CLOSE	FC	BC460B8	2	M/S C/S	1	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71A	175
2	BC460B8	SG 1 HI-PT VENT VLV	SON	D	CLOSE	CLOSE	FC	BC460B8	2	M/S C/S	2	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71A	175
2	BC460DA	SG 2 HI-PT VENT VLV	SON	D	CLOSE	CLOSE	FC	BC460DA	2	M/S C/S	1	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71B	175
2	BC460E	SG 2 HI-PT VENT VLV	SON	D	CLOSE	CLOSE	FC	BC460E	2	M/S C/S	1	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71A	175
2	BC460E	SG 2 HI-PT VENT VLV	SON	D	CLOSE	CLOSE	FC	BC460E	2	M/S C/S	2	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71A	175
2	BC460E	COLD LEG SG3-2 SAMP. VLV	SON	D	CLOSE	CLOSE	FC	BC200	2	M/S C/S	2	4020A	N/L SO	BC3796(DC)	BC3796(DC)	E528/71B	175

PRIORITY - 1 - REQUIRED MINIMUM COMPONENT FOR SHUTDOWN, 2 - BACKUP COMPONENT, 3 - ALTERNATE SHUTDOWN COMPONENT
 PERFORMANCE GOALS - 1 - REACTIVITY CONTROL, 2 - REACTOR CORE AVAILABLE, 3 - REACTOR CORE AVAILABLE, 4 - PROCESS AVAILABLE, 5 - SUPPORT FUNCTIONS

3 1 3 3 4 1 1 4 2

APPENDIX A
 SAFE SHUTDOWN COMPONENT LIST

DRY'S BRESSO UNIT 1
 SYSTEM - SWS

TBAIN	COMPONENT	DESCRIPTION	TYPE	LOC. OF COMP.	NORMAL POSITION	SECTIONAL POSITION	FAILED POSITION	THIS COMPONENT ALTERNATE SHUTDOWN FOR	PERFORMANCE GOALS	REQUIRED FOR NPS C/S	REQD. -ITY	VALID Y-LINE	HYDROLOG. SOURCES/ISS. MODERNITY	POWER SUPPLY	CREDIBILITY SCORE	ELEVATION/ WINDING WDM /DPT.	NOTES
1/2	P180	BACKUP SW PUMP	PUMP	80	OFF	ON	OFF	SWS TRASH 152	5	NPS C/S	3	4041A		C1	20401000A 20401000B	E4007/270	180
1	P1-1	SW PUMP 1	PUMP	80	ON/OFF	ON	OFF		5	NPS C/S	1	4041A		C1	19520707A	E4007/00A	180
2	P1-2	SW PUMP 2	PUMP	80	ON/OFF	ON	OFF		5	NPS C/S	1	4041A		C1	20401007A	E4007/00C	170
1/2	P1-3	SW PUMP 3	PUMP	80	ON/OFF	ON	OFF	P1-1, P1-2	5	NPS C/S	1	4041A		C1	19ACT030A	E4007/11A	170
1	SM1356	CAC 1 OUT 150 VEL	SON	01	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041C		20401000A 10AC040 1001000A 20AC020	E4007/11C E4007/11A E4007/11A E4007/11A	170	
2	SM1357	CAC 2 OUT 150 VEL	SON	01	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	184	
1/2	SM1358	CAC 3 OUT 150 VEL	SON	01	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	184	
1	SM1366	CAC 1 IN 150 VEL	ADN	01	OPEN	OPEN	AS IS		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	184	
2	SM1367	CAC 2 IN 150 VEL	ADN	01	OPEN	OPEN	AS IS		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	184	
1/2	SM1368	CAC 3 IN 150 VEL	ADN	01	OPEN	OPEN	AS IS		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	184	
1	SM1382	MF-1 SUCT VLV FROM SW	ADN	E	CLOSED	OPEN/CLOSE	AS IS		5	C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	186	
2	SM1383	MF-2 SUCT VLV FROM SW	ADN	08	CLOSED	OPEN/CLOSE	AS IS		5	NPS C/S	1	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/11C E4007/11C E4007/11C	186	
2	SM1395	IPCW 4S IN HEADER 150 VEL	ADN	11	OPEN/CLOSE	CLOSED	AS IS		5	NPS C/S	1	4041A		10CV1000A 10CV1000B 10CV1000C	E4007/00A E4007/00A E4007/00A	180	
1	SM1399	IPCW 4S IN HEADER 150 VEL	ADN	11	OPEN/CLOSE	CLOSED	AS IS		5	NPS C/S	1	4041A		10CV1000A 10CV1000B 10CV1000C	E4007/00A E4007/00A E4007/00A	180	
1/2	SM1424	SW FLOW CC IN 1 150 VEL	SON	1	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041B		10CV1000A 10CV1000B 10CV1000C	E4007/00 E4007/00 E4007/00	183	
1/2	SM1429	SW FLOW CC IN 3 150 VEL	SON	1	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041B		10CV1000A 10CV1000B 10CV1000C	E4007/00 E4007/00 E4007/00	183	
2	SM1434	SW FLOW CC IN 2 150 VEL	SON	1	OPEN/CLOSE	OPEN	FO		5	NPS C/S	1	4041B		10CV1000A 10CV1000B 10CV1000C	E4007/00 E4007/00 E4007/00	183	
1	SM2027	CTDM EVS COND UNIT IN VLV	ADN	44	CLOSED	OPEN	AS IS		5	NPS C/S	1	4041B		10CV1000A 10CV1000B 10CV1000C	E4007/27 E4007/27 E4007/27	182	
2	SM2028	CTDM EVS COND UNIT IN VLV	ADN	44	CLOSED	OPEN	AS IS		5	NPS C/S	1	4041B		10CV1000A 10CV1000B 10CV1000C	E4007/27 E4007/27 E4007/27	182	
1	SM2029	SW TO INT STDM VLV	ADN	11	OPEN/CLOSE	OPEN	AS IS		5	NPS C/S	2	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/28 E4007/28 E4007/28	187	
2	SM2030	SW TO INT STDM VLV	ADN	11	OPEN/CLOSE	OPEN	AS IS	SM2030, 31, 32	5	NPS C/S	2	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/28 E4007/28 E4007/28	187	
1	SM2031	SW TO CLG TRIMMER 40 VLV	ADN	11	OPEN/CLOSE	OPEN	AS IS		5	NPS C/S	2	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/28 E4007/28 E4007/28	187	
1	SM2032	SW TO CLG TRIMMER 40 VLV	ADN	11	OPEN/CLOSE	OPEN	AS IS		5	NPS C/S	2	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/28 E4007/28 E4007/28	187	
1	SM2033	SW TO COLLECT BASIN VLV	ADN	11	OPEN/CLOSE	OPEN	AS IS		5	NPS C/S	2	4041C		10CV1000A 10CV1000B 10CV1000C	E4007/28 E4007/28 E4007/28	187	
2	SM2034	IPCW 4S1 OUTLET	ADN	11	OPEN	CLOSED	AS IS		5	N/A	2	4041A		10CV1000A 10CV1000B 10CV1000C	N/A	180	
1	SM2035	IPCW 4S2 OUTLET	ADN	11	OPEN	CLOSED	AS IS		5	N/A	2	4041A		10CV1000A 10CV1000B 10CV1000C	N/A	180	
1/2	SM2036	IPCW 4S3 OUTLET	ADN	11	OPEN	CLOSED	AS IS		5	N/A	2	4041A		10CV1000A 10CV1000B 10CV1000C	N/A	180	

PRIORITY - 1 - REQUIRED WITHIN COMPONENT FOR SHUTDOWN; 2 - ALTERNATE SHUTDOWN COMPONENT; 3 - ALTERNATE SHUTDOWN COMPONENT; 4 - PRODUCT HEAT REMOVAL; 5 - SUPPORT FUNCTIONS
 PERFORMANCE GOALS - 1 - ACTIVITY CONTROL; 2 - REACTOR COOLANT PRESS; 3 - REACTOR HEAT REMOVAL; 4 - PRODUCT SS; 5 - SUPPORT FUNCTIONS

FAOR APPENDIX C-3, "ASSOCIATED CIRCUITS" CHANGES

A markup of both the CARP, Appendix C-3, Associated Circuit Evaluation Summary, and of FAOR Appendix C-3, Breaker Coordination Evaluation Summary are provided to illustrate the changes to the circuit analysis. Additions, deletions, and corrections are marked in the left margin using the code A, D, and C respectively. A summary is provided below for changes that resulted in the markup tables.

Changes as marked on CARP Appendix C-3

1. DELETED C2 (9) AND D2 (9) entries which are non-essential 4160V buses that supply power to alternate shutdown equipment. These buses are stripped prior to use of the Motor Driven Feedwater Pump or Backup Service Water Pump which ensures the circuits cannot affect the analysis.
2. DELETED Cables (11) that have been abandoned in place by design changes to various safe shutdown components.
3. DELETED Redundant entries for (B) cables that are a continuation of the (A) cables such as through containment penetrations.
4. CORRECTION Corrected circuit/component designation.

Changes as marked on FAOR Appendix C-3

1. ADDED Safe shutdown power circuits (328) which were previously excluded. This was done to provide a complete listing and evaluation of coordination in this Appendix.

Cabinets (62) and relay cabinet circuits (8) which are Safe Shutdown or associated power supplies were included.

Y1L and Y2A (120 VAC panels) were included because they have a common power source with essential panels Y1 and Y2 and are associated power supplies.
2. ADDED Fuse/Breaker type, and reference drawings to support feeder/load coordination calculations.
3. ADDED 5th and 6th refueling outage modification information.
4. CORRECTION Corrected circuit/component designation.

The FAOR reflects the plant configuration projected at the end of the 6th refueling outage and includes the specific manual actions needed due to coordination concerns. These include stripping C2, D2 and E12C loads prior to use of certain safe shutdown loads in specific Fire Areas (BG, BF, EE).

Davis Besse Unit 1
 Revision : 5

APPENDIX C-3

Appendix R
 Compliance Assessment Report

APPENDIX R COMPLIANCE ASSESSMENT REPORT
 ASSOCIATED CIRCUIT EVALUATION SUMMARY

	COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
					INC FDR	LOAD	YES	NO
D	C2	APAC202A	MP1161	CLNG TWR MU PUMP 1-1	2000A	1200A	XXX	
	C2	APAC204A	MP0161	HTR DRN PUMP MTR 1-1	2000A	1200A	XXX	
	C2	APAC205A	DSC205	4.16 KV DISC SW DSC-205	2000A	1200A	XXX	
	C2	APAC206A	MP0071	CLNG WTR PUMP MTR 1-1	2000A	1200A	XXX	
	C2	APAC207A	MP0013	CNDS PUMP MTR 1-3	2000A	1200A	XXX	
	C2	APAC208A	MP0073	CLNG WTR PUMP MTR 1-3	2000A	1200A	XXX	
	C2	APAC210A	MP0011	CNDS PUMP MTR 1-1	2000A	1200A	XXX	
	C2	APAC211A	CE5	SW-YD FD 1-1/SUBSTA LTG	2000A	1200A	XXX	
	C2	APAC212A	MP0150	SU FEEDWATER PUMP	2000A	1200A	XXX	
		D1N	3CD1N15A	RC3603	RELAY CABINET RC3603	400A	30A	XXX
	D1N	3PD1N14A	C4806	CRD BKR D SHUNT TRIP CKT	400A	30A	XXX	
	D1P	1CD1P12A	RC4801	RELAY CABINET RC4801	400A	30A	XXX	
	D1P	1CD1P15A	PD1S5017	PD1S5017	400A	5A	XXX	
	D1P	1CD1P24A	F5S815	AFPT 1 SPEED MONITOR	400A	5A	XXX	
	D1P	1PD1P10A	RC3706	RELAY CABINET	400A	35A	XXX	
	D1P	1PD1P14A	C4603	CRD BKR B SHUNT TRIP CKT	400A	30A	XXX	
D	D2	BPAD201A	MC1400	STATION AIR CMPSR 1-2	2000A	1200A	XXX	
	D2	BPAD201B	MC1400	STATION AIR CMPSR 1-2	2000A	1200A	XXX	
	D2	BPAD202A	MP1162	CLNG TWR MU PUMP 1-2	2000A	1200A	XXX	
	D2	BPAD204A	MP0162	HTR DRN PMP MTR 1-2	2000A	1200A	XXX	
	D2	BPAD205A	DSD205	4.16KV DISC SW DSD-205	2000A	1200A	XXX	
	D2	BPAD206A	MP0072	CLNG WTR PMP MTR 1-2	2000A	1200A	XXX	
	D2	BPAD207A	MP0012	CNDS PUMP MTR 1-2	2000A	1200A	XXX	
	D2	BPAD208A	MC0410	AUX BLDG FORCED DRAFT FAN	2000A	1200A	XXX	
	D2	BPAD211A	DF5	SW-YD FD 1-2/SUBSTA LTG	2000A	1200A	XXX	
		D2N	4CD2N15A	RC3604	RELAY CABINET RC3604	400A	30A	XXX
	D2N	4PD2N14A	C4612	CRD BKR C SHUNT TRIP CKT	400A	30A	XXX	
D	D2P	2CD2P15A	PD1S5018	PD1S5018	400A	5A	XXX	
	D2P	2CD2P16A	PD52685B	PD52685B	400A	5A	XXX	
	D2P	2PD2P14A	C4606	CRD BKR A SHUNT TRIP CKT	400A	30A	XXX	
D	DAN	ACDAN19A	C4603	CRD PRIMARY TRIP BKR A	200A	30A	XXX	
	DAN	ACDAN20A	XAC	BUS TIE XFMR AC	200A	20A	XXX	
	DAN	ACDAN21A	C1701	MISC WASTE EVAPORATOR PNL	200A	30A	XXX	
	DAN	ACDAN23A	C2701	BORIC ACID EVAPORATOR PNL	200A	30A	XXX	
	DAN	ACDAN24A	RC4802	RELAY CABINET	200A	30A	XXX	
	DAN	ACDAN25A	C3625	DG1-1 DC OIL PMP CTRL BOX	200A	10A	XXX	
	DAN	APDAN01A	C5750A	ALT GEN XFMR CABINET	200A	70A	XXX	
	DAN	APDAN02A	HA01	13.8KV SWGR A DC CTRL	200A	70A	XXX	
	DAN	APDAN02B	HAAC	13.8KV SWGR A DC CTRL				
	DAN	APDAN03A	E6	480VAC USS DC CTRL	200A	100A	XXX	
	DAN	APDAN04A	E2	480VAC USS DC CTRL	200A	100A	XXX	
	DAN	APDAN05A	E3	480VAC USS DC CTRL	200A	100A	XXX	
	DAN	APDAN06A	E4	480VAC USS DC CTRL	200A	100A	XXX	
		DAP	ACDAP19A	RC4601	RCS COOL CABINET	200A	30A	XXX
	DAP	ACDAP21A	C3312	FIRE PROTECTION EQUIP	200A	20A	XXX	
	DAP	ACDAP21B	C3314	FIRE PROTECTION EQUIP				
	DAP	ACDAP21C	C3311	FIRE PROTECTION EQUIP				
	DAP	ACDAP21D	C3310	FIRE PROTECTION EQUIP				
	DAP	ACDAP21E	JT3635	FIRE PROTECTION EQUIP				
	DAP	ACDAP21F	C4105	FIRE PROTECTION EQUIP				
	DAP	ACDAP21G	FPS8701	FIRE PROTECTION EQUIP				
	DAP	ACDAP21I	YBR3	FIRE PROTECTION EQUIP				
	DAP	ACDAP23A	X01	START UP XFMR 1	200A	20A	XXX	
	DAP	ACDAP24A	X11	AUX XFMR 11	200A	30A	XXX	
	DAP	ACDAP25A	C3305	GEN ISO PHASE BUS ANNUN	200A	30A	XXX	
	DAP	ACDAP26A	RC3717	RELAY CABINET	200A	30A	XXX	

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Appendix R
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APPENDIX R COMPLIANCE ASSESSMENT REPORT
 ASSOCIATED CIRCUIT EVALUATION SUMMARY

COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD	
				INC FDR	LOAD	YES	NO
DAP	ACDAP26B	RC2B25	RELAY CABINET				
DAP	ACDAP27A	RC3001	RELAY CABINET	200A	30A	XXX	
DAP	ACDAP27B	RC3003	RELAY CABINET				
DAP	ACDAP28A	RC3715	RELAY CABINET	200A	30A	XXX	
DAP	ACDAP28B	RC1760	RELAY CABINET				
DAP	ACDAP29A	RC4311	RELAY CABINET	200A	30A	XXX	
DAP	ACDAP29B	RC2404	RELAY CABINET				
DAP	ACDAP29C	RC3005	RELAY CABINET				
DAP	ACDAP30A	C3304	AUX BOILER CTRL PANEL	200A	30A	XXX	
DAP	ACDAP31A	HA01	13.8KV BRKR CTRL	200A	5A	XXX	
DAP	ACDAP31B	HA03	13.8KV BRKR CTRL				
DAP	ACDAP32A	BCE5	LTG DIST CENTER E5 BRKR	200A	30A	XXX	
DAP	ACDAP33A	C3610	RELAY CABINET	200A	30A	XXX	
DAP	ACDAP33B	C3617	RELAY CABINET				
DAP	APDAP01A	C5750A	GEN-XFMR RELAY BOARD	200A	70A	XXX	
DAP	APDAP02A	HA01	13.8KV SWGR BUS A DC CTRL	200A	70A	XXX	
DAP	APDAP02B	HAAC	13.8KV SWGR BUS A DC CTRL				
DAP	APDAP03A	E6	ALT 480VAC USS E6 DC CTRL	200A	100A	XXX	
DAP	APDAP04A	E2	480VAC USS F2 DC CTRL	200A	100A	XXX	
DAP	APDAP05A	E3	480VAC USS F3 DC CTRL	200A	100A	XXX	
DAP	APDAP06A	E4	ALT 480VAC USS E4 DC CTRL	200A	100A	XXX	
DAP	APDAP08A	D3602	FUSE PANEL D3602	200A	100A	XXX	
DBN	BCDBN19A	C4606	CRD PRIMARY TRIP BKR B	200A	30A	XXX	
DBN	BCDBN20A	XBD	BUS TIE XFMR BD	200A	20A	XXX	
DBN	BCDBN21A	C2702	MISC WASTE EVAPORATOR PNL	200A	30A	XXX	
DBN	BCDBN23A	BDF5	LTG DIST CENTER F5 BKR	200A	30A	XXX	
DBN	BCDBN24A	RC4804	RELAY CABINET	200A	30A	XXX	
DBN	BCDEN25A	C3626	DG 1-2 OIL PMP CTRL BOX	200A	10A	XXX	
DBN	BPDBN01A	C5750B	ALT GEN XFMR CABINET	200A	70A	XXX	
DBN	BPDBN02A	HB01	13.8KV SWGR A DC CTRL	200A	70A	XXX	
DBN	BPDBN02B	HB14	13.8KV SWGR A DC CTRL				
DBN	BPDBN04A	F2	480VAC USS DC CTRL	200A	100A	XXX	
DBN	BPDBN05A	F3	480VAC USS DC CTRL	200A	100A	XXX	
DBP	BCDBP09A	C6720	AVV POSITION INDICATION			XXX	
DBP	BCDBP17A	C4301	GEN VOLT REG CABINET	200A	35A	XXX	
DBP	BCDBP18A	JT5302	GEN FIELD BRKR JT5302	200A	35A	XXX	
DBP	BCDBP19A	C3303	GEN COOL SYS CABINET	200A	30A	XXX	
DBP	BCDBP20A	C3611	RELAY CABINET C3611	200A	30A	XXX	
DBP	BCDBP20B	C3618	RELAY CABINET C3618				
DBP	BCDBP21A	RC4602	RCS PRZR HEATERS CABINET	200A	30A	XXX	
DBP	BCDBP22A	C5105	COMB BUT VLV 5TH CABINET	200A	30A	XXX	
DBP	BCDBP23A	C5757B	ENC SYSTEM CABINET	200A	20A	XXX	
DBP	BCDBP24A	C1708	PROCESS SAMPLE PANEL	200A	10A	XXX	
DBP	BCDBP25A	JT5302	GEN FIELD RECT TEMP RLY	200A	20A	XXX	
DBP	BCDBP26A	HB01	13.8KV BKR HB01 CTRL	200A	5A	XXX	
DBP	BCDBP26B	HB03	13.8KV BKR HB03 CTRL				
DBP	BCDBP27A	X02	START-UP XFMR O2	200A	20A	XXX	
DBP	BCDBP28A	X1	MAIN XFMR 1	200A	30A	XXX	
DBP	BCDBP29A	RC3718	RELAY CABINET	200A	30A	XXX	
DBP	BCDBP29B	RC2B26	RELAY CABINET				
DBP	BCDBP30A	RC1716	RELAY CABINET	200A		XXX	
DBP	BCDBP30B	RC1716	RELAY CABINET	200A		XXX	
DBP	BCDBP31A	RC441C	RELAY CABINET	200A	30A	XXX	
DBP	BCDBP31B	RC3004	RELAY CABINET				
DBP	BCDBP31C	RC3002	RELAY CABINET				
DBP	BCDBP32A	C3316	FIRE PROTECTION EQUIP	200A	20A	XXX	
DBP	BCDBP32B	C3315	FIRE PROTECTION EQUIP				
DBP	BCDBP32C	C3313	FIRE PROTECTION EQUIP				
DBP	BCDBP32D	C3636	FIRE PROTECTION EQUIP				
DBP	BCDBP32E	C5404	FIRE PROTECTION EQUIP				
DBP	BCDBP32G	YBR4	FIRE PROTECTION EQUIP				

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Appendix R
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 ASSOCIATED CIRCUIT EVALUATION SUMMARY

COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD	
				INC FDR	LOAD	YES	NO
DBP	BCDBP32H	C5404	FIRE PROTECTION EQUIP				
DBP	BCDBP33A	RC4401	RELAY CABINET	200A	30A	XXX	
DBP	BCDBP33B	RC2304	RELAY CABINET				
DBP	BCDBP33C	RC3006	RELAY CABINET				
DBP	BCDBP34A	C5760C	ELEC METER & XDUCE CAB	200A	20A	XXX	
DBP	BPDBP01A	C5750B	GEN-XFMR RELAY BOARD	200A	70A	XXX	
DBP	BPDBP02A	HB01	13.8KV SWGR BUS B DC CTRL	200A	70A	XXX	
DBP	BPDBP02B	HB14	13.8KV SWGR BUS B DC CTRL				
DBP	BPD04A	F2	480VAC USS F2 DC CTRL	200A	100A	XXX	
DBP	BPD05A	F3	480VAC USS F3 DC CTRL	200A	100A	XXX	
DBP	BPD08A	D3603	FUSE PANEL D3603	200A	100A	XXX	
	DC MCC 1	APD111A	D37E1	EMER LTG XFR SW 1	500A	100A	XXX
	DC MCC 1	APD112A	D57E1	EMER LTG XFR SW 3	500A	100A	XXX
	DC MCC 1	APD113A	MP0724	RCP BACKUP OIL LIFT PMP	500A	60A	XXX
D	DC MCC 1	APD113B					YYY
	DC MCC 1	APD114A	MP0721	RCP BACKUP OIL LIFT PMP	500A	60A	XXX
D	DC MCC 1	APD114B					XXX
	DC MCC 1	APD115A	MP0281	MFPT 1 EMERG BRG OIL PMP	500A	50A	XXX
	DC MCC 1	APD118A	MP0210	TG EMER BRG OIL PUMP	500A	225A	XXX
	DC MCC 2	BPD211A	D41E1	EMER LTG XFR SW 2	500A	100A	XXX
	DC MCC 2	BPD212A	D49E1	EMER LTG XFR SW 4	500A	100A	XXX
	DC MCC 2	BPD213A	MP0723	RCP BACKUP OIL LIFT PMP	500A	60A	XXX
D	DC MCC 2	BPD213B					XXX
	DC MCC 2	BPD214A	MP0722	RCP BACKUP OIL LIFT PMP	500A	60A	XXX
	DC MCC 2	BPD214B					XXX
	DC MCC 2	BPD215A	MP0282	MFPT 2 EMERG BRG OIL PMP	500A	50A	XXX
	DC MCC 2	BPD218A	MP0230	T-G H2 EMERG SEAL OIL PMP	500A	60A	XXX
	E1	APBE113A	F13	480 VAC MCC	1600A	600A	XXX
	E11A	1PBE1102A	HC0621	H2 DILUTION SYS BLOWER 1	600A	70A	XXX
	E11A	1PBE1104A	HV5439	ECCS RM 105 HVAC ISO VLV	600A	15A	XXX
	E11A	1PBE1107A	HV5440	ECCS RM 105 HVAC ISO VLV	600A	15A	XXX
	E11A	1PBE1113A	HV5090	CTMT H2 PURGE LINE 1 VLV	600A	15A	XXX
	E11A	1PBE1115A	MP891A	ECCS SUMP PUMP 1A	600A	30A	XXX
	E11A	1PBE1116A	MP891B	ECCS SUMP PUMP 1B	600A	30A	XXX
	E11A	1PBE1117A	MP893A	ECCS SUMP PUMP 3A	600A	30A	XXX
	E11A	1PBE1118A	MP893B	ECCS SUMP PUMP 3B	600A	30A	XXX
	E11A	1PBE1123A	HV2001	CTMT ISO VALVE PENET 72A	600A	15A	XXX
	E11A	1PBE1124A	HV2003	CTMT ISO VALVE PENET 74A	600A	15A	XXX
	E11A	1PBE1129A	HVRC10	PRZR SPRAY LINE ISO VLV	600A	15A	XXX
D	E11A	1PBE1129B					XXX
	E11A	1PBE1135A	HV5422	ECCS RM 105 CLR 4 OUT VLV	600A	15A	XXX
	E11A	1PBE1136A	HV5421	ECCS RM 105 CLR 5 OUT VLV	600A	15A	XXX
	E11A	1PBE1170A	HV5038	CTMT H2 DILUT OUT ISO VLV	600A	15A	XXX
	E11A	APBE1109A	HV9440	DEHIN WTR STOP VLV	600A	15A	XXX
	E11A	APBE1125A	HV9412A	MU FILTER 1 IN VLV	600A	15A	XXX
	E11B	1PBE1108A	HV2012A	CTMT NORM SUMP ISO VLV	225A	15A	XXX
D	E11B	1PBE1108B					XXX
	E11B	1PBE1155A	HV2735	PRZR SPRAY LINE ISO VLV	225A	15A	XXX
D	E11B	1PBE1155B					XXX
	E11B	1PBE1158A	HV1567A	CC IN ISO VLV 1 TO CRD	225A	15A	XXX
D	E11B	1PBE1158B					XXX
	E11B	1PBE1163A	MVCF02B	CF TANK 1 SAMPLE VALVE	225A	15A	XXX
D	E11B	1PBE1163B					XXX
	E11B	1PBE1165A	MVCF05B	CF TANK 1 VENT VALVE	225A	15A	XXX
D	E11B	1PBE1165B					XXX
	E11B	1PBE1169A	MC0561	CTMT RECIRCULATIN FAN 1	225A	150A	XXX
D	E11B	1PBE1169B					XXX
	E11B	1PBE1181A	MV02-0A	RC PRZR SMPL VLV 1	225A	15A	XXX

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COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
D	E11B	1PBE1181B					
	E11C	1PBE1137A	MV5070	CTMT VACH RELIEF VLV	225A	15A	XXX
	E11C	1PBE1138A	MV5071	CTMT VACH RELIEF VLV	225A	15A	XXX
	E11C	1PBE1139A	MV5072	CTMT VACH RELIEF VLV	225A	15A	XXX
	E11C	1PBE1140A	MV5073	CTMT VACH RELIEF VLV	225A	15A	XXX
	E11C	1PBE1141A	MV5074	CTMT VACH RELIEF VLV	225A	15A	XXX
	E11C	1PBE1144A	MV5261	CTRM EMER VENT FN IN VLV	225A	15A	XXX
	E11C	1PBE1159A	MV0612	MN FW 1 ISO VLV	225A	100A	XXX
	E11C	APBE1167A	BSWX7903	CTMT LIGHTING DISC SWITCH	225A	150A	XXX
D	E11C	APBE1167B					
	E11C	APBE1168A	X39D1	CONTAINMENT LIGHTING XFMR	225A	70A	XXX
D	E11C	APBE1168B					
	E11C	APBE1179A	MP0411	PRI WTR XFER PUMP 1	225A	150A	XXX
	E11C	APBE1186A	NC3801	H2 RECOMBINATION STARTER	600A	100A	XXX
	E11C	APBE1186B	NC3802				
	E11C	APBE1186C	C3830				
	E11D	1PBE1133A	MV5067	CTMT H2 PURGE FN 1 IN VLV	225A	15A	XXX
	E11D	1PBE1195A	MV0831	DHR CLR 1 OUT XOVER	225A	15A	XXX
	E11D	1PBE1197A	MRE5327	CTRM VENT SYS VACH PMP 1	225A	15A	XXX
	E11D	1PBE1199A	MV132B	CC CRD BOOST PMP SUCT VLV	225A	15A	XXX
	E11D	APBE1155A	MP0381	BA PUMP 1	225A	20A	XXX
	E11D	APBE1188A	WET711	BA ADD TANK 1 HEATER 1	225A	30A	XXX
	E11D	APBE1189A	WET712	BA ADD TANK 1 HEATER 2	225A	30A	XXX
	E11E	1PBE1145A	MV0645B	CTMT ISO VLV PENT 73	225A	15A	XXX
	E11E	1PBE1148A	MV4906	CTRM STANDBY COND 1 DNPR	225A	15A	XXX
	E12A	1PBE1201A	MS0611	CTRM STANDBY COND 1 FAN	600A	30A	XXX
	E12A	1PBE1213A	WMB1, 2, 3	Power Circuit (WMB1, 2, 3	600A	250A	XXX
	E12A	1PBE1213B	WMB1, 2, 3	Power Circuit (WMB1, 2, 3			
	E12A	1PBE1214A	WMB1, 2, 3	Power Circuit (WMB1, 2, 3			
	E12A	1PBE1214B	WMB1, 2, 3	Power Circuit (WMB1, 2, 3			
	E12A	1PBE1215A	WMB1, 2, 3	Power Circuit (WMB1, 2, 3			
	E12A	1PBE1215B	WMB1, 2, 3	Power Circuit (WMB1, 2, 3			
	E12A	1PBE1219A	MCO301	EMER VENT FAN 1	600A	70A	XXX
	E12A	1PBE1220A	YRF1	480VAC/125VDC RECTIFIER	600A	30A	XXX
	E12A	1PBE1221A	YRF3	480VAC/125VDC RECTIFIER	600A	30A	XXX
	E12A	1PBE1237A	MCS017	EMER VENT DISCH FAN OMPR	600A	15A	XXX
	E12A	1PBE1238A	MCS056	CROSS-TIE DUCT WORK DMPR	600A	15A	XXX
	E12A	1PBE1239A	MCS024	FUEL HAND AREA BYPASS VLV	600A	15A	XXX
	E12B	1PBE1258A	C3621	EMER DG 1 IMMERSION HTR	225A	30A	XXX
	E12B	1PBE1261A	MP1471	EMER DG 1 SOAK PUMP	225A	15A	XXX
	E12B	APBE1257A	MP0081	DO XFER PUMP 1	225A	15A	XXX
	E12B	APBE1267A	MP1591	FUEL OIL BOOSTER PUMP 1	225A	15A	XXX
	E12B	APBE1268A	MP173A	DO STRG TK AREA SUMP PMP	225A	15A	XXX
	E12B	APBE1269A	WE1091	DO PMP HSE ELEC UNIT HTR	225A	15A	XXX
	E12B	APBE1270A	X3021	LTG XFMR DO PMP HOUSE	225A	15A	XXX
	E12B	APBE1289A	MP1473	EDG 1 AC LUBE OIL PUMP	225A		XXX
D	E12B	APBE1289B					
	E12C	1PBE1210A	E12D	480VAC MCC	225A	150A	XXX
	E12C	1PBE1274A	MF0151	SW PUMP STRNR 1	225A	15A	XXX
	E12C	1PBE1280A	EF12C	480VAC MCC	225A	90A	XXX
	E12D	APBE1203A	MCO100	TRAVELING SCREEN AREA VNT	150A	30A	XXX
	E12D	APBE1204A	MF15401	BACKUP SW PUMP STRAINER	150A	15A	XXX
	E12F	APBE1299A	MCO111	EMER DG AIR COMPSSR 1	225A	30A	XXX
	E16A	1PBE1611A	RE4598AA	STA VENT EFF HI RAD MON	600A	15A	XX

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COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
E16A	1PBE1612A	RE4598AB	STA VENT EFF HI RAD ROM	600A	15A		XXX
E16B	1PBE1613A	RE4597AA	CTMT POST ACC HI RAD ROM	250A	15A		XXX
E16B	1PBE1614A	RE4597AB	CTMT POST ACC HI RAD ROM	250A	15A		XXX
EF12C	3PBEF124A	MF0153	SW PMP STRNR 3	90A	15A		XXX
EF12C	CPBEF123A	MP0060	JOCKEY FIRE PUMP	90A	20A		XXX
F1	BPBF113A	F13	480 VAC MCC	1600A	600A		XXX
F11A	2PBF1102A	MRE5328	CTRM VENT SYS VACH PMP 2	600A	15A		XXX
F11A	2PBF1103A	MV4907	CTRM STANDBY COND UNIT	600A	15A		XXX
F11A	2PBF1109A	MCO622	H2 DILUTION SYS BLWR 2	600A	70A		XXX
F11A	2PBF1110A	MV5065	CTMT H2 PURGE LINE 2 VLV	600A	15A		XXX
F11A	2PBF1113A	MCO562	CTMT RECIRC FAN 2	600A	150A		XXX
D F11A	2PBF1113B						
D F11A	2PBF1121A	MVCF02A	CF TANK 2 SAMPLE VALVE	600A	15A		XXX
D F11A	2PBF1121B						
D F11A	2PBF1123A	MVCF05A	CF TANK 2 VENT VALVE	600A	15A		XXX
D F11A	2PBF1123B						
D F11A	2PBF1125A	MV2736	PRZR SPRAY LINE ISO VLV	600A	15A		XXX
D F11A	2PBF1128A	MV0240B	RC PRZR SAMPLE VLV 2	600A	15A		XXX
D F11A	2PBF1133A	HV1338	CC CRD BOOST PMP SUCT VLV	600A	15A		XXX
D F11A	2PBF1140A	MV2000	CTMT ISO VALVE PENET 71A	600A	15A		XXX
D F11A	2PBF 144A	MV2002	CTMT ISO VALVE PENET 73A	600A	15A		XXX
D F11A	2PBF1180A	MV5075	CTMT VACUUM RELIEF VALVE	600A	15A		XXX
D F11A	2PBF1181A	MV5076	CTMT VACUUM RELIEF VALVE	600A	15A		XXX
D F11A	2PBF1182A	MV5077	CTMT VACUUM RELIEF VALVE	600A	15A		XXX
D F11A	2PBF1183A	M. 5078	CTMT VACUUM RELIEF VALVE	600A	15A		XXX
D F11A	2PBF1184A	MV5079	CONTROL VACUUM RELIEF VLV	600A	15A		XXX
D F11A	BPBF1114A	X4901	CTMT LTG XFMR	600A	70A		XXX
D F11A	BPBF1114B						
D F11A	BPBF1115A	BSWX7901	CTMT LTG DISC SWCH	600A	150A		XXX
D F11A	BPBF1115B						
D F11A	BPBF1116A	X5701	CTRM & AUX BLDG LTG XFMR	600A	50A		XXX
F11B	2PBF1138A	MV2012B	CTMT NORM SUBP ISO VLV	225A	15A		XXX
F11B	2PBF1160A	MV0624B	CTMT ISO VALVE PENET 72	225A	15A		XXX
F11B	2PBF1176A	MV1567B	CC IM ISO VALVE 2 TO CRD	225A	15A		XXX
F11B	2PBF1186A	MV5262	CTRM EMER VNT FN 2 IN VLV	225A	15A		XXX
F11B	BPBF1152A	MP0412	PRI WATER XFER PUMP 2	225A	150A		XXX
F11C	2PBF1151A	MV5037	CTMT H2 DILUT OUT ISO VLV	225A	15A		XXX
F11D	2PBF1117A	MV0601	MN FW 2 ISOLATION VALVE	225A	100A		XXX
F11D	2PBF1145A	WF60	H2 PURGE SYSTEM FILTER	225A	15A		XXX
F11D	2PBF1153A	MP892A	ECCS SUMP PUMP 2A	225A	30A		XXX
F11D	2PBF1154A	MP892B	ECCS SUMP PUMP 2B	225A	30A		XXX
F11D	2PBF1163A	MV5423	ECCS RM 113 CLR 3 OUT VLV	225A	15A		XXX
F11D	2PBF1164A	MV5068	CTMT H2 PURGE FN 2 IN VLV	225A	15A		XXX
F11D	2PBF1165A	MV5424	ECCS RM 115 CLR 2 OUT VLV	225A	15A		XXX
F11D	2PBF1166A	MV5425	ECCS RM 115 CLR 1 OUT VLV	225A	15A		XXX
F11D	2PBF1178A	MV5441	ECCS RM 115 HVAC ISO VLV	225A	15A		XXX
F11D	2PBF1179A	MV5442	ECCS RM 115 HVAC ISO VLV	225A	15A		XXX
F11D	2PBF1185A	MV0830	DHR CLR 2 OUT XOVER	225A	15A		XXX
F11D	BPBF1107A	MVMU12B	MU FLT 2 IN VLV	225A	15A		XXX
F11D	BPBF1169A	MP0382	BA PUMP 2	225A	20A		XXX
F11D	BPBF1171A	WET721	BA ADD TANK 2 HEATER 1	225A	30A		XXX
F11D	BPBF1172A	WET722	BA ADD TANK 2 HEATER 2	225A	30A		XXX
F11E	BPBF1196A	F11F	480VAC MCC F11F	150A	150A		XXX
F11F	BPBF1197A	C1710	SAMPLE PMP SPEED CTRLR	150A	15A		XXX

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Appendix R
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 ASSOCIATED CIRCUIT EVALUATION SUMMARY

COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
F11F	BPBF1197B	MP216	SAMPLE PMP SPEED CTRLR	150A	15A		XXX
F11F	BPBF1198A	C1709	DEMIN WTR PMP SPEED CTRLR	150A	15A		XXX
F11F	BPBF1198B	MP217	DEMIN WTR PMP SPEED CTRLR	150A	15A		XXX
F12A	2PBF1203A	MC0302	EMER VENT FAN 2	600A	70A		XXX
F12A	2PBF1213A	WLB11,2,3	Power Circuit (WLB11,2,3)	600A	250A		XXX
F12A	2PBF1213B	WLB11,2,3	Power Circuit (WLB11,2,3)				
F12A	2PBF1214A	WLB11,2,3	Power Circuit (WLB11,2,3)				
F12A	2PBF1214B	WLB11,2,3	Power Circuit (WLB11,2,3)				
F12A	2PBF1215A	WLB11,2,3	Power Circuit (WLB11,2,3)				
F12A	2PBF1215B	WLB11,2,3	Power Circuit (WLB11,2,3)				
F12A	2PBF1218A	MC5018	EMER VNT FAN DISCH DMPR 2	600A	15A		XXX
F12A	2PBF1220A	YRF2	480VAC/125VDC RECTIFIER	600A	30A		XXX
F12A	2PBF1221A	YRF4	480VAC/125VDC RECTIFIER	600A	30A		XXX
F12A	2PBF1225A	MC5057	CROSS TIE DUCT WORK DMPR	600A	15A		XXX
F12A	2PBF1226A	MV5025	FUEL HAND AREA BYPASS VLV	600A	15A		XXX
F12A	2PBF1229A	MS0612	CTRM STANDBY COND 2 FAN	600A	30A		XXX
F12A	BPBF1240A	HRE2025	STA VNT STACK VACH PMP 1	600A	15A		XXX
F12B	2PBF1258A	C3622	EMER DG 2 IMMERSION HTR	225A	30A		XXX
F12B	2PBF1260A	MVRC02	PRZR 1 SPRAY LINE VLV	225A	15A		XXX
F12B	2PBF1260B						
F12B	2PBF1261A	MP1472	EMER DG 2 SOAK PUMP	225A	15A		XXX
F12B	BPBF1257A	HP0082	DO XFER PUMP 2	225A	15A		XXX
F12B	BPBF1263A	MC0112	EMER DG AIR COMPSR 2	225A	30A		XXX
F12B	BPBF1267A	MP1592	FUEL OIL BOOSTER PUMP 2	225A	15A		XXX
F12B	BPBF1268A	MP1738	DO STRG TK AREA SUMP PMP	225A	15A		XX
F12B	BPBF1269A	WE1092	DO PMP HSE ELEC UNIT HTR	225A	15A		XXX
F12B	BPBF1289A	MP1474	EDG 2 AC LUBE OIL PUMP	225A			XXX
F12C	2PBF1274A	MFD152	SW PUMP STRNR 2	225A	15A		XXX
F12C	2PBF1280A	EF12C	480VAC MCC	225A	90A		XXX
F71	BPBF7105A	C3410	EIAC CLOSED COOLING LOOP	600A	150A		
F71	BPBF7115A	MP2562	STA AIR CHPSR 2 LO PUMP	600A	150A		
F71	BPBF7115B	MP2562	STA AIR CHPSR 2 LO PUMP	600A	150A		
Y1	1CY103A	C5762B	PROCESS & RAD MON CABINET	200A	10A		XXX
Y1	1CY106A	C5762E	RPS-1 CABINET	200A	15A		XXX
Y1	1CY111A	ASH5358A	CL2 MONITOR ASH5358A	200A	15A		XXX
Y1	1CY111B	ASH4863A	CL2 MONITOR ASH4863A				
Y1	1CY111C	CFPP19Q	F/P PANERL CFPP19Q				
Y1	1CY113A	CFPO3Q	BWST INST HEAT TRACING	200A	15A		XXX
Y1	1CY114A	RC3701	RELAY CABINET RC3701	200A	15A		XXX
Y1	1CY114B	CFPP17Q	F/P PANEL				
Y1	1CY118A	POY5000B	POY5000B	200A	5A		XXX
Y1	1CY118B	POY5000C	POY5000C				
Y1	1CY118C	TY5443	TY5443				
Y1	1CY118D	C5784A	ARTS CABINET C5784A				
Y1	1CY119A	C3801	CTMT HYDROGEN SYS PANEL	200A	10A		XXX
Y1	1CY120A	RC3607	RELAY CABINET RC3607	200A	5A		XXX
Y1	1CY120B	RC3601	RELAY CABINET RC3601				
Y1	1CY120C	RC3605	RELAY CABINET RC3605				
Y1	1CY120D	YL1	YL1				
Y1	1CY122A	CFPP10Q	CL2 ANALYZER HEAT TRACE	200A	15A		XXX
Y1	ACY1VMA	E16277	REMOTE VOLTMETER AT C5715	200A	2A		XXX
Y2	2CY203A	C5755B	PROCESS & RAD MON CABINET	200A	10A		XXX
Y2	2CY206A	C5755E	RPS-2 CABINET	200A	15A		XXX
Y2	2CY213A	ASH5358B	CL2 MONITOR ASH5358B	200A	15A		XXX
Y2	2CY213B	ASH4863B	CL2 MONITOR ASH4863B				
Y2	2CY213C	CFPP20Q	F/P PANEL CFPP20Q				

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COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
Y2	2CY217A	PDY5014B	PDY5014B	200A	30A	XXX	
Y2	2CY217B	PDY5014C	PDY5014C				
Y2	2CY217C	FTY5444	TY5444				
Y2	2CY217D	C57B4B	ARTS CABINET C57B4B				
Y2	2CY218A	C3801	CTHT HYDROGEN SYS PANEL	200A	15A	XXX	
Y2	2CY218B	CFPP180	F/P PANEL CFPP180				
Y2	2CY219A	RC360B	RELAY CABINET RC360B	200A	5A	XXX	
Y2	2CY219B	RC3602	RELAY CABINET RC3602				
Y2	2CY219C	RC3606	RELAY CABINET RC3606				
Y2	2CY219D	YL2	YL2				
Y2	2CY220A	CFP040	BWST INSTR HEAT TRACING	200A	15A	XXX	
Y2	2CY222A	CFPP110	CL2 ANALYZER HEAT TRACE	200A	15A	XXX	
Y2	BCY2VMA	E16282	REMOTE VOLTMETER AT C5715	200A	2A	XXX	
Y3	3CY308A	C5763F	RPS-3 CABINET	200A	15A	XXX	
Y3	3CY309A	RC3603	RELAY CABINET RC3603	200A	5A	XXX	
Y3	3CY310A	CFP050	BWST HEAT TRACING	200A	15A	XXX	
Y3	3CY312A	C57B4C	ARTS CABINET	200A	15A	XXX	
Y3	3CY313A	C5760A	CTRM CABINET	100A	10A	XXX	
C	4CY414A	C5756G	CTRM CABINET	100A	10A	XXX	
Y3	ACY3VMA	E16281	REMOTE VOLTMETER AT C5715	200A	2A	XXX	
Y4	4CY408A	C5756F	RPS-4 CABINET	200A	15A	XXX	
Y4	4CY409A	C5764A	SEISMIC RECORDING SYS	200A	3A	XXX	
Y4	4CY410A	RC3604	RELAY CABINET RC3604	200A	5A	XXX	
Y4	4CY411A	CFP060	BWST HEAT TRACE CABINET	200A	15A	XXX	
Y4	4CY412A	C57B4D	ARTS CABINET C57B4D	200A	30A	XXX	
Y4	BCY4VMA	E16278	REMOTE VOLTMETER AT C5715	200A	2A	XXX	
YAU	ACYAU20A	C4603	CRD MISC TRIP CONFIRM 2	600A	30A	XXX	
YAU	ACYAU21A	C4801Y	CRD MISC API & LOGIC 2	600A	30A	XXX	
YAU	ACYAU22A	C1702	PANEL	600A	30A	XXX	
YAU	ACYAU23A	C4801H	CRD MISC TRANSFER	600A	30A	XXX	
YAU	ACYAU24A	C4101	H2 DETECTOR CABINET	600A	30A	XXX	
YAU	ACYAU25A	C5761B	ALT ICS Y BUS FEED	600A	30A	XXX	
C	ACYAU27A	C2401	MFPT 1-1 CTRL	600A	30A	XXX	
YAU	ACYAU28A	C5764D	ENVIRONMENTAL MONITOR SYS	600A	30A	XXX	
YAU	ACYAU29A	R3004	RACK	600A	30A	XXX	
YAU	ACYAU29B	R3002	RACK				
YAU	ACYAU29C	R3003	RACK				
C	ACYAU29E	FAT6859	RACK				
YAU	ACYAU30A	C5765E	PROCESS & RADIATION MON	600A	30A	XXX	
YAU	ACYAU31A	C3403	STATION AIR COMPRESSOR 1	600A	30A	XXX	
YAU	ACYAU32A	C5715	DC & INSTR AIR BKR IND	600A	30A	XXX	
YAU	ACYAU33A	C6710	MOTOROLA TRANSCEIVERS	600A	30A	XXX	
YAU	ACYAU34A	C3002	DIESEL FIRE PUMP CTRL	600A	30A	XXX	
YAU	ACYAU35A	RC3717	RELAY CABINET	600A	30A	XXX	
YAU	ACYAU35B	RC3715	RELAY CABINET				
YAU	ACYAU35C	RC1760	RELAY CABINET				
YAU	ACYAU36A	RC3005	RELAY CABINET	600A	30A	XXX	
YAU	ACYAU36B	RC3003	RELAY CABINET				
YAU	ACYAU36C	RC3001	RELAY CABINET				
YAU	ACYAU37A	RC4311	RELAY CABINET	600A	30A	XXX	
YAU	ACYAU38A	C3610	SUPPLEMENTARY PANEL	600A	30A	XXX	
YAU	ACYAU39A	C5722	MAIN CTRL PANEL	600A	30A	XXX	
YAU	ACYAU40A	RC2404	RELAY CABINET	600A	30A	XXX	
YAU	ACYAU40B	R2204	LOCAL ANNUNCIATOR				
YAU	ACYAU41A	RC2825	RELAY CABINET	600A	30A	XXX	
YAU	ACYAU41B	R1801	RACK				
YAU	ACYAU42A	C4705	FIRE PROTECTION SYSTEM	600A	30A	XXX	
D	ACYAU42B	C4706	FIRE PROTECTION SYSTEM				
YAU	ACYAU42C	C5785A	FIRE PROTECTION SYSTEM				
YAU	ACYAU42D	FPOS8627A	FIRE PROTECTION SYSTEM				

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Appendix R
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 ASSOCIATED CIRCUIT EVALUATION SUMMARY

COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
YAU	ACYAU42E	C5401	FIRE PROTECTION SYSTEM				
YAU	ACYAU42F	C5402	FIRE PROTECTION SYSTEM				
YAU	ACYAU42G	C5403	FIRE PROTECTION SYSTEM				
YAU	ACYAU42H	C5215	FIRE PROTECTION SYSTEM				
YAU	ACYAU42K	JT4801	FIRE PROTECTION SYSTEM				
YAU	ACYAU42L	JT4908	FIRE PROTECTION SYSTEM				
YAU	ACYAU42M	JT4909	FIRE PROTECTION SYSTEM				
YAU	ACYAU42N	C5785B	FIRE PROTECTION SYSTEM				
YAU	ACYAU42P	C4709	FIRE PROTECTION SYSTEM				
YAU	ACYAU43A	C5718	MAIN CTRL BOARD	600A	30A		XXX
YAU	ACYAU44A	C5721	FEEDWATER PANEL	600A	30A		XXX
YAU	ACYAU45A	C5771	CTRL ROOM RECEPTACLE	600A	30A		XXX
YAU	ACYAU46A	C5765F	PROCESS & RADIATION MON	600A	30A		XXX
YAU	ACYAU46B	C5781	PROCESS & RADIATION MON				
YAU	ACYAU47A	C5719	CRT & RECORDERS	600A	30A		XXX
YAU	ACYAU48A	C5770	COMP UNIT A, CPU, PRINTER	600A	30A		XXX
YAU	ACYAU49A	C5708	MAIN CTRL BOARD	600A	30A		XXX
YAU	ACYAU49B	C5706	XI-7003 (AT C5701)	600A	20A		XXX
YAU	ACYAU50A	C5772C	COMPUTER MAIN FRAME	600A	30A		XXX
YAU	ACYAU50B	C5772F	COMPUTER MAIN FRAME				
D YAU	ACYAU51A	C5753C	LIOP 1 FANS	600A	30A		XXX
YAU	ACYAU52A	C5751C	LIOP 2 FANS	600A	30A		XXX
YAU	ACYAU53A	C5720	MAIN CTRL BOARD	600A	30A		XXX
YAU	APYAU02A	Y4501	FUSE PANEL Y4501	600A	100A		XXX
YAU	APYAU04A	C5765A	PROCESS & RADIATION MON	600A	100A		XXX
YAU	APYAU05A	Y3601	FUSE PANEL Y3601	600A	100A		XXX
YAU	APYAU08A	C5754F	STATION ANNUNCIATOR	600A	60A		XXX
YAU	APYAU09A	C5758A	BUFFER CABINET	600A	60A		XXX
YAU	APYAU11A	U500	MAIN COMMUNICATION BOX	600A	60A		XXX
YAU	APYAU12A	C5758C	MISC ELECTRONIC CTRL CAB	600A	60A		XXX
YAU	APYAU13A	C5754K	EPF MULTIPLEXER CABINET	600A	60A		XXX
YAU	APYAU14A	TSC	TSC DATALINK UI4629	600A	60A		XXX
YAU	APYAU14B	JT5708	TSC DATALINK				
YAU	APYAU14C	JT5707	TSC DATALINK				
YAU	APYAU15A	C5758B	DIAGNOSTIC CABINET	600A	60A		XXX
YAU	APYAU16A	C5772E	COMPUTER MAINFRAME	600A	60A		XXX
YAU	APYAU17A	C5772B	COMPUTER MAINFRAME	600A	60A		XXX
YAU	APYAU18A	C5772A	COMPUTER MAINFRAME	600A	60A		XXX
YBU	BCYBU19A	C1702	PANEL	600A	60A		XXX
YBU	BCYBU20A	C4301	GEN VOLT REG CAB	600A	30A		XXX
YBU	BCYBU21A	C3303	GEN COOL SYS CAB	600A	30A		XXX
YBU	BCYBU23A	C5715	DC & INSTR BKR STATUS IND	600A	30A		XXX
YBU	BCYBU23B	C5718	DC & INSTR BKR STATUS IND	600A	30A		XXX
YBU	BCYBU24A	C4801Y	CRD MCS API & LOGIC 1	600A	30A		XXX
YBU	BCYBU25A	C4801K	CRD MCS TRANSFER	600A	30A		XXX
D YBU	BCYBU26A	C2301	MFPT 1-2 CTRL	600A	30A		XXX
YBU	BCYBU27A	C4606	CRD MCS TRIP CONFIRM 1	600A	30A		XXX
YBU	BCYBU28A	C5706	CRD MCS GROUP METERS	600A	30A		XXX
YBU	BCYBU29A	C5777	COMP STA, VIDEO & PRINT B	600A	30A		XXX
YBU	BCYBU30A	C5301	CROSS WATT HR METER CAB	600A	30A		XXX
YBU	BCYBU31A	C5720	MAIN CTRL BOARD	600A	30A		XXX
YBU	BCYBU31B	C5719	MAIN CTRL BOARD				
YBU	BCYBU32A	C5770	COMP DISC UNIT B, CPU B	600A	30A		XXX
YBU	BCYBU33A	C5757C	TURBINE INSTR CABINET	600A	30A		XXX
YBU	BCYBU34A	C5752	COMPUTER LAIP	600A	30A		XXX
YBU	BCYBU35A	C5757D	COMPUTER BUTT CTRM CAB	600A	30A		XXX
YBU	BCYBU36A	C3404	STATION AIR COMPRESSOR 2	600A	30A		XXX
YBU	BCYBU37A	RC4410	RELAY CABINET	600A	30A		XXX
YBU	BCYBU37B	RC4401	RELAY CABINET				
YBU	BCYBU37C	RC2304	RELAY CABINET				
YBU	BCYBU37D	FL13709	RELAY CABINET				
YBU	BCYBU38A	C5754H	LOAD FREQ CTRL	600A	30A		XXX

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 ASSOCIATED CIRCUIT EVALUATION SUMMARY

COMMON POWER SOURCE	CIRCUIT	COMPONENT	DESCRIPTION	BKR/FUSE RATING		BKR/FUSE COORD ?	
				INC FDR	LOAD	YES	NO
D YBU	BCYBU39A	C5723	DIGITAL FREQ IND	600A	30A	XXX	
YBU	BCYBU40A	C4601C	COMPUTER RAIP	600A	30A	XXX	
YBU	BCYBU41A	RC1761	RELAY CABINET	600A	30A	XXX	
YBU	BCYBU42A	RC3006	RELAY CABINET	600A	30A	XXX	
YBU	BCYBU42B	RC3004	RELAY CABINET				
YBU	BCYBU42C	RC3002	RELAY CABINET				
YBU	BCYBU43A	RC3716	RELAY CABINET	600A	30A	XXX	
YBU	BCYBU43B	RC3718	RELAY CABINET				
YBU	BCYBU44A	C3611	SUPPLEMENTARY PANEL	600A	30A	XXX	
YBU	BCYBU45A	C5722	MAIN CTRL PANEL	600A	30A	XXX	
D YBU	BCYBU46A	C5105	COMB BUTT VLV LOCAL CAB	600A	30A	XXX	
YBU	BCYBU47A	RC2826	RELAY CABINET	600A	30A	XXX	
YBU	BCYBU48A	C5764B	VIBRATION ACOUSTIC MON	600A	30A	XXX	
YBU	BCYBU48B	C5764C	VIBRATION ACOUSTIC MON				
YBU	BCYBU49A	C5721	FEEDWATER PANEL	600A	30A	XXX	
YBU	BCYBU50A	C5761B	ICS X BUS	600A	30A	XXX	
YBU	BCYBU52A	C5754F	STATION ANNUNCIATOR	600A	30A	XXX	
YBU	BCYBU52B	JT5712	COMM DATA TRANSMISSION				
YBU	BCYBU52C	JT5713	COMM DATA TRANSMISSION				
YBU	BCYBU53A	C5708	MAIN CTRL BOARD	600A	30A	XXX	
YBU	BCYBU53B	C5706	XI-7004, XS-7000(AT C5701)	600A	20A	XXX	
YBU	BPYBU02A	C5756C	PROCESS & RADIATION MON	600A	100A	XXX	
YBU	BPYBU03A	Y4502	FUSE PANEL Y4502	600A	100A	XXX	
YBU	BPYBU08A	C5757B	EMC SYSTEM	600A	60A	XXX	
YBU	BPYBU09A	C5758F	MISC ELECTRONIC CTRL CAB	600A	60A	XXX	
YBU	BPYBU11A	U500	MAIN COMMUNICATION BOX	600A	60A	XXX	
YBU	BPYBU12A	C5772G	COMPUTER MAINFRAME	600A	60A	XXX	
YBU	BPYBU13A	C5772G	COMPUTER MAINFRAME	600A	60A	XXX	
YBU	BPYBU14A	C5772D	COMPUTER MAINFRAME	600A	60A	XXX	
D YBU	BPYBU15A	C5753	COMPUTER LIOP 1	600A	60A	XXX	
D YBU	BPYBU16A	C5753	COMPUTER LIOP 1	600A	60A	XXX	
YBU	BPYBU17A	C5751	COMPUTER LIOP 2	600A	60A	XXX	
YBU	BPYBU18A	C5751	COMPUTER LIOP 2	600A	60A	XXX	
YE2	1PYE201A	MV5011A	CTMT AIR SMPL ISO VLV	150A	15A	XXX	
YE2	1PYE202A	MV5011B	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
D YE2	1PYE202B						
YE2	1PYE203A	MV5011C	CTMT AIR SMPL ISO VLV	150A	15A	XXX	
YE2	1PYE204A	MV5011D	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
D YE2	1PYE204B						
YE2	1PYE205A	MV5011E	CTMT AIR SMPL RET ISO VLV	50A	15A	XXX	
YE2	1PYE206A	MC5000A	EMER VNT SYS MOD DNPR 1	50A	15A	XXX	
YE2	1PYE207A	MC5000B	EMER VNT SYS MOD DNPR 2	50A	15A	XXX	
YF2	2PYF201A	MV5010A	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
D YF2	2PYF201B						
YF2	2PYF202A	MV5010B	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
YF2	2PYF203A	MV5010C	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
D YF2	2PYF203B						
YF2	2PYF204A	MV5010D	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
YF2	2PYF205A	MV5010E	CTMT AIR SMPL ISO VLV	50A	15A	XXX	
YF2	2PYF206A	MC5014A	EMER VNT SYS MOD DNPR 3	50A	15A	XXX	
YF2	2PYF207A	MC5014B	EMER VNT SYS MOD DNPR 4	50A	15A	XXX	

D = Deletion
 C = Correction

DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION
 BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING		
1N	1PD121A	DBC1PN	BATTERY CHARGER	1600	A6Y1600-4	E6/3	800	A6Y800-4	E6/3	YES	1
1N	1PD131A	DC MCC 1	DC MCC	N/A	NONE		1600	A6Y1600-4	E7	YES	1
1N	1PD134A	DBC1N	BATTERY CHARGER	1600	A6Y1600-4	E6/3	800	A6Y800-4	E6/3	YES	1
1P	1PD103A	DBC1P	BATTERY CHARGER	1600	A6Y1600-4	E6/3	800	A6Y800-4	E6/3	YES	1
1P	1PD104A	DC MCC 1	DC MCC	N/A	NONE		1600	A6Y1600-4	E7	YES	1
1P	1PD105A	DBC1PN	BATTERY CHARGER	1600	A6Y1600-4	E6/3	800	A6Y800-4	E6/3	YES	1
2N	2PD221A	DBC2PN	BATTERY CHARGER	1600	A6Y1600-4	E6/4	800	A6Y800-4	E6/4	YES	1
2N	2PD231A	DC MCC 2	DC MCC	N/A	NONE		1600	A6Y1600-4	E7	YES	1
2N	2PD234A	DBC2N	BATTERY CHARGER	1600	A6Y1600-4	E6/4	800	A6Y800-4	E6/4	YES	1
2P	2PD203A	DBC2P	BATTERY CHARGER	1600	A6Y1600-4	E6/4	800	A6Y800-4	E6/4	YES	1
2P	2PD204A	DC MCC 2	DC MCC	N/A	NONE		1600	A6Y1600-4	E7	YES	1
2P	2PD205A	DBC2PN	BATTERY CHARGER	1600	A6Y1600-4	E6/4	800	A6Y800-4	E6/4	YES	1
C1	(1PD1P05A)	AC110	LARGEST CONT PWR FUSE	70	A2Y70-3	E640A/1A	30	A6Y30-1	E5-44, E64B/1A	YES	1
C1	1PAC108A	CD	4.16KV XFER SWGR	1200	50 DHP	E3	1200	50 DHP	E3	YES	1,20
C1	CABLE BUS	D2	4.16KV SWGR	1200	50 DHP	E1, E3	2000	50 DHP	E22	ACC	1,20
C2	(APDAN07A)	VARIOUS	LARGEST CONT PWR FUSE	70	A2Y70-3	E642A/3A	30	A6Y30-1	E5-51	YES	1
C2	APAC201A	P180	BACKUP SWP	1200	50 DHP	E3	1200	50 DHP	E3	YES	1
C2	APXAC01A	BUS A	POWER CABLE	N/A	NONE	E1	N/A	NONE	E200B	ACC	4,20
C2	CABLE BUS	XAC	BUS TIE XFMR BACKFEED	2000	50 DHP	E1	2000	50 DHP	E3	ACC	4,20
C3615	(1PD1P09A)	VARIOUS	VAR, LARGEST LOAD (D1P)	70	A2Y70-3	E640/1A	35	A6Y35-1	E64B/1C, E39-6/3	YES	1
C3615	(1PY105A)	EDG HVAC	VAR, LGST LOAD USED (Y1)	15	A25X15	E641/1A	6	A2Y6-1(A)	E64B/5, E559, E39/6	ACC	1,13
C3615	(3PY305A)	EDG HVAC	VAR LARGEST LOAD (Y3)	15	A25X15	E641/3A	6	A2Y6-1(A)	E641/3A, E39-6	ACC	5,13
C3615	(ACV1131B)	EV1131	FP DSL DAY TNK VLV (D1P)	70	A2Y70-3(A)	E64B/1C	2	A6Y2-1(A)	E64B/11B	YES	5
C3615	(ACV1131G)	RC3007	FP DSL DAY TNK VLV (Y1)	15	A25X15	E641A/1A	2	A6Y2-1(A)	E64B/11B	YES	5
C3616	(2PD2P09A)	VARIOUS	VAR, LARGEST LOAD (D2P)	70	A2Y70-3(A)	E640A/2A	35	A6Y35-1	E64B/2C, E39-6/3	ACC	1
C3616	(2PY205A)	EDG HVAC	VAR, LARGEST LOAD (Y2)	15	A25X15	E641/2A	6	A2Y6-1(A)	E64B/5, E559, E39-6	ACC	1,13
C3616	(4PY405A)	EDG HVAC	VAR, LARGEST LOAD USED(Y4)	15	A25X15	E641A/4A	6	A2Y6-1(A)	E39-6, E641/3A	ACC	5,13
C3617	(1CGD102C)	VARIOUS	DG EXCITER (D1P)	70	A2Y70-3(A)	E640A/1A	35	A2Y35-1(A)	M180-10,31 E64B/1G,C	YES	1
C3618	(2CGD202C)	VARIOUS	DG EXCITER (D2P)	70	A2Y70-3(A)	E640A/2A	35	A2Y35-1(A)	M180-10, E64B/2G,C	YES	1
C3621	(1CGD102D)	VARIOUS	DG GOV & VLTG CNTRL (D1P)	70	A2Y70-3(A)	E640A/1A	30	A2Y30-1(A)	M180-10, E64B/1C	YES	1
C3622	(2CGD202D)	VARIOUS	DG GOV & VLTG CNTRL (D2P)	70	A2Y70-3	E640A/2A	30	A2Y30-1(A)	M180-10, E64B/2C	YES	1
C3628	(1CY108B)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/1A	1	A6Y1-1(A)	M544-14, M530-321	YES	1
C3629	(2CY208B)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/2A	5	A2Y5-1(A)	M530-327, M530-321	YES	1
C3630	(1CY108A)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/1A	5	A2Y5-1(A)	E57B/1, M544-5, -6	ACC	1,14
C3640	(2CY208A)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/2A	5	A2Y5-1(A)	M544-5, -6, E57B-1	ACC	1,14
C3645	(1CY104AA)	VARIOUS	VAR, LARGEST LOAD (Y1A)	20	A25X20	E908A	NONE	NONE	E2010, M324AQ-325	YES	1,9
C4602	(2CY208AB)	VARIOUS	VAR, LARGEST LOAD USED	10	A25X10	E909A	NONE	NONE	E1049/3,4, M321AQ-68	YES	1,9
C4625	(2CY204AA)	VARIOUS	VAR, LARGEST LOAD (Y2A)	20	A21 X20	E909A	NONE	NONE	E2009, M324AQ-326	YES	1,9
C4808	(1CY108AB)	VARIOUS	VAR, LARGEST LOAD USED	10	A25X10	E908A	NONE	NONE	E1049/1,2, M321AQ-68	YES	1,9
C5705	(2CY211B)	VARIOUS	VAR, LRGST LOAD USED (Y2)	10	A25X10	E641A/2A	2	A2Y2-1(A)	E577/9, E574/B	YES	7
C5705	(2CY419A)	VARIOUS	HIS/LTG LGST LOAD (Y4)	3	A25X3	E641A/4A, DCN 1362	2	A2Y2-1(A)	E577/9, E574/B	ACC	1,9,18
C5706	(ACYAU49B)	VARIOUS	HIS/LTG LGST LOAD (YAU)	20	A2Y20-1	E643/2	2	A2Y2-1(A)	E574/B	YES	6
C5706	(BCYBU53B)	VARIOUS	HIS/LTG LGST LOAD (YBU)	20	A2Y20-1	E643/4	2	A2Y2-1(A)	E574/B	YES	6
C5708	(1CY112C)	VARIOUS	VAR, LARGEST LOAD USED	10	A25X10	E641/1A	2	A2Y2-1(A)	E574/B	YES	7
C5709	(2CY211C)	VARIOUS	LARGEST LOAD	10	A25X10	E641A/2A	2	A2Y2-1(A)	E574/B	YES	7
C5715	(ACYAU32A)	VARIOUS	VAR, LARGEST LOAD USED	20	A2Y20-1	E643/1	2	A6Y2-2	E567/10,2, E542	YES	6

SYMBOLS: ACC = ACCEPTABLE (A) = ASSUMED TYPE

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DAVIS BESSE		APPENDIX C-3							AREA OPTIMIZATION			
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	C5715	(BCYBU23A)	VARIOUS	VAR, LARGEST LOAD USED	20	A2Y20-1	E643/3	2	A6Y2-2	E567/11,2, E542	YES	6
	C5716	(1CY112A)	VARIOUS	LARGEST LOAD, HPI FLOW	10	A25X10	E641A/1R	2	A2Y2-1(A)	E577/12, E48B/13	YES	1
	C5716	(2CY211A)	VARIOUS	LARGEST LOAD, HPI FLOW	10	A25X10	E641A/2A	2	A2Y2-1(A)	E577/13, BOM642544202	YES	1
	C5717	(1CY116A)	VARIOUS	CTRM SW IND LIGHTS	5	A25X5	E641A/1A	2	A2Y2-1(A)	E576/6, FU LIST	ACC	5,18
	C5717	(2CY212A)	VARIOUS	CTRM SW IND LIGHTS	3	A25X3	E641A/2A	2	A2Y2-1(A)	E568/7, FU LIST	ACC	5,18
	C5718	(ACYAU43A)	VARIOUS	CTRM SW IND LIGHTS	20	A2Y20-1	E643A/2	2	A2Y2-1(A)	E569/7, FU LIST	YES	6
	C5718	(BCYBU23B)	VARIOUS	CTRM SW IND LIGHTS	20	A2Y20-1	E643A/3	2	A2Y2-1(A)	E569/6, E568/36	YES	6
	C5721	(ACYAU44A)	VARIOUS	VAR, LARGEST LOAD USED	20	A2Y20-1	E643A/2	3	A2Y3-1(A)	E571/5, FL, E46B/33C	YES	1
	C5721	(BCYBU49A)	VARIOUS	VAR, LARGEST LOAD USED	20	A2Y20-1	E643A/4	3	A2Y3-1(A)	E571/5, FL, E46B/33C	YES	1
	C5755C	(2CD2P19A)	VARIOUS	VAR, SFAS CH 2 SV's (D2P)	30	A2Y30-1	E640A/2A	2	A2Y2-1(A)	E17B, E761, E540	YES	1
	C5755E	(2CY206A)	VARIOUS	VAR, LRGST LOAD USED NI	5	A25X5	E641A/2A	5	A2Y5-1(A)	E731A/3, M530-27B, F.L	ACC	1,9,19
	C5756D	(2CD2P18A)	VARIOUS	VAR, SFAS CH 2 SV's (D2P)	30	A2Y30-1	E640A/2A	2	A2Y2-1(A)	E17B, E761, E62B/4	YES	1
	C5762A	(1CY121A)	VARIOUS	VAR, SFRCs RLY CH1 (Y1)	5	A25X5(A)	E641A/1B	2	A2Y2-1(A)	7749-E30-132, SF003	ACC	1,17
	C5762A	(1PD1P11A)	VARIOUS	VAR, SFRCs RLY CH 3 (D1P)	20	A2Y20-1	E640A/1A, DCN 38	2	A2Y2-1(A)	E46B/1A	YES	1
	C5762C	(1CD1P18A)	VARIOUS	VAR, SFAS CH 1 SV's (D1P)	30	A2Y30-1	E640A/1A	2	A2Y2-1(A)	E17B, E761, E50B/15A	YES	1
	C5763B	1CY112B	VARIOUS	PAM/RAD MON	10	A25X10	E641A/1A, DCN 723	1	A2Y1-1(A)	E52B/6B	YES	7
	C5763D	(1CD1P19A)	VARIOUS	VAR, SFAS CH 1 SV's (D1P)	30	A2Y30-1	E640A/1A	2	A2Y2-1(A)	E17B, 761, 546, E30-13	YES	1
	C5792	(2CY221B)	VARIOUS	VAR, SFRCs RLY CH 2 (Y2)	5	A25X5(A)	E641/2B, DCN 20	2	A2Y2-1(A)	SF003	ACC	1,17
	C5792	(2PD2P11A)	VARIOUS	VAR, SFRCs RLY CH 4 (D2P)	20	A25X20(A)	E640A/2A, DCN 39	2	A2Y2-1(A)	SF003	YES	1
	C5798	(2CY207AA)	VARIOUS	EXTENDED RANGE P	15	A25X15	E909A	1	A2Y1-1(A)	E46B/1F, SF003	YES	1
	C5798	(2CY209AA)	VARIOUS	VAR, LARGEST LOAD USED	10	A25X10	E909A	3	A2Y3-1(A)	E1051, E1009	ACC	5,15
	C5799	(1CY107AA)	VARIOUS	EXTENDED RANGE P	15	A25X15	E908A	1	A2Y1-1(A)	E1009, E1051/2	YES	1
	C5799	(1CY109AA)	VARIOUS	VAR, LARGEST LOAD USED	10	A25X10(A)	E908A	3	A2Y3-1(A)	E1050, E1010	ACC	5,15
	C670B	(1CY104A)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/1A	10	A2Y10-1(A)	E1050, E1010	ACC	1,12
	C6709	(2CY204B)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/2A	10	A2Y10-1(A)	M410-550, E801, E200B	ACC	1,12
	C6714	(1CY104B)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/1A	1.6 SLO	21B/239	M410-551, E801, E200BJ	ACC	1,12
	C6715	(2CY204A)	VARIOUS	VAR, LARGEST LOAD USED	15	A25X15	E641A/2A	1.6 SLO	21B/239	NOTE 10, E200B(J)	ACC	1,12
	CDE-11B1	(1CY117C)	VARIOUS	CF01B IND LIGHTS	5	A25X5	E641/1A	3	A2Y3-1(A)	E286/1, E33-15-3	ACC	7,16
	CDE-11B2	(1CY117D)	VARIOUS	CONT PWR TO DH12 INTLK	5	A25X5	E641A/1A	3	A6Y3-1	E286/2, 52B/24D, 33-16	YES	1
	CDE-12A1	(1CD1P20A)	VARIOUS	LARGEST LOAD (AFWP GOV)	30	A2Y30-1	E640A/1A	6	A6Y6-1	E289/1, 43B/11, 33-19	YES	7
	CDE-12A2	(1CD1P20C)	VARIOUS	LARGEST LOAD	30	A2Y30-1	E640A/1A	SPARE	NONE	E289/2 E33-82	ACC	5
	CDF-11A1	(2CY214C)	VARIOUS	CF01A IND LIGHTS	5	A6Y5-1	E641A/2A	3	A6Y3-1	E294/1, E33-21	YES	1
	CDF-11C	(2CD2P20B)	VARIOUS	LARGEST LOAD SW13B3	30	A2Y30-1	E640A/2A	3	A6Y3-1	E296, E33-24, E44B/6B	YES	7
	CDF-11D	(2CD2P20D)	VARIOUS	LARGEST LOAD	30	A2Y30-1	E640A/2A	3	A6Y3-1	E297, E33-25	YES	1
	CDF12A-1	(2CD2P20A)	VARIOUS	LARGEST LOAD (AFWP GOV)	30	A2Y30-1	E640A/2A	6	A6Y6-1	E298/1, 33/26, 43B/11B	YES	1
	D1	2PAD108A	CD	4.16KV XFER SWGR	1200	50 DHP	E3	1200	50 DHP	E3	YES	1, 20
	D1N	1CD1N16A	ZC6459	MDFP CONTROL VLV POSITION	400	A2Y400-4(A)	E7	10	A2Y10-1	E640A/3A	YES	5
	D1N	3CD1N15A	RC3603	RELAY CABINET RC3603	400	A2Y400-4(A)	E7	30	A2Y30-1	E640A/3A	YES	2
	D1N	3PD1N03A	YRF3	RECTIFIER YRF3	400	A2Y400-4(A)	E7	200	A2Y200-3	E640A/3A	YES	1,26
	D1N	3PD1N05A	C1	C1 CONTROL POWER (ALT)	400	A2Y400-4(A)	E7	70	A2Y70-3	E640A/3A	YES	1
	D1N	3PD1N07A	E1	E1 CONTROL POWER	400	A2Y400-4(A)	E7	60	A2Y60-1	E640A/3A	YES	1
	D1N	3PD1N09A	C3615	EDG1-1 PANEL (ALT)	400	A2Y400-4(A)	E7	70	A2Y70-3	E640A/3A	YES	2
	D1N	3PD1N14A	C4806	CRD BKR D SHUNT 2RIP CKT	400	A2Y400-4(A)	E7	30	A2Y30-1	E640A/3A	YES	2
	D1N	APD1N04A	DAN	125VDC DIST PANEL	400	A2Y400-4(A)	E7	200	A2Y200-3	E640A/3A	YES	1
	D1NA	1PD135A	MS106	AFPT 1 MS IN ISOL VLV	200	A2Y200-3	E7	100	A2Y100-3	E7	YES	1
	D1P	1CD1P10A	RC3706	RELAY CABINET	400	A2Y400-4(A)	E7	35	A2Y35-1	E640A/1A	YES	5

SYMBOLS; ACC = ACCEPTABLE (A) = ASSUMED TYPE

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DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION

BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	D1P	1CD1P13A	ZC6452	AFP #1 CTRL VLV POSITION	400	A2Y400-4(A	E7	10	A2Y10-1	E640A/1A	YES	5
A	D1P	1CD1P15A	PD155017	PD155017	400	A2Y400-4(A	E7	5	A2Y5-1	E640A/1A	YES	2
A	D1P	1CD1P17A	C5738	CONTROL PANEL	400	A2Y400-4(A	E7	5	A2Y5-1	E640A/1A	YES	2
A	D1P	1CD1P18A	C5762C	SFAS CH 1 SV's (D1P)	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1A	YES	1
A	D1P	1CD1P19A	C5763D	SFAS CH 1 SV's (D1P)	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1A	YES	1
A	D1P	1CD1P20A	CDE-12A-1	AFP SUCT VLV, GOV	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1A	YES	1
A	D1P	1CD1P20B	RC4604	RELAY CAB RC4604	400	A2Y400-4(A	E7	NA	NONE	E640A/1A	YES	7
A	D1P	1CD1P20C	CDE-12A-2	DISCONNECT SWITCH	400	A2Y400-4(A	E7	NA	NONE	E640A/1A	YES	7
A	D1P	1CD1P21A	RC3601	RELAY CABINET	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1B	YES	5
A	D1P	1CD1P21B	RC3701	DC CONTROL PWR TO AF6452	400	A2Y400-4(A	E7	NA	NONE	E640A/1B	YES	5
A	D1P	1CD1P21C	CDE11D	CONTROL POWER TO CDE11D	400	A2Y400-4(A	E7	NA	NONE	E640A/1B	YES	5
A	D1P	1CD1P21D	RC3607	CONTROL POWER TO RC3607	400	A2Y400-4(A	E7	NA	NONE	E640A/1B	YES	5
A	D1P	1CD1P23B	F1S1427C	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A	E7	5	A2Y5-1	E640A/1B	YES	1
A	D1P	1CD1P23C	F1S1432C	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A	E7	NA	NONE	E640A/1B	YES	1
A	D1P	1CD1P23D	F1S1422C	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A	E7	NA	NONE	E640A/1B	YES	1
A	D1P	1CD1P24A	SS815	AFPT 1 SPEED MON C2735	400	A2Y400-4(A	E7	15	A2Y15-1(A)	E640A/1B	YES	6
A	D1P	1PD1P03A	YRF1	RECTIFIER YRF1	400	A2Y400-4(A	E7	200	A2Y200-3	E640A/1A	YES	1,26
A	D1P	1PD1P05A	C1	16KV AC SWGR	400	A2Y400-4(A	E7	70	A2Y70-3	E640A/1A	YES	1
A	D1P	1PD1P06A	P43-3	SW PUMP 3	400	A2Y400-4(A	E7	60	A2Y60-1	E640A/1A	YES	1
A	D1P	1PD1P07A	E1	CONTROL POWER	400	A2Y400-4(A	E7	60	A2Y60-1	E640A/1A	YES	1
A	D1P	1PD1P08A	P3-3	SW PUMP 3	400	A2Y400-4(A	E7	60	A2Y60-1	E640A/1A	YES	1
A	D1P	1PD1P09A	C3615	EDG1-1 PANEL (NORM)	400	A2Y400-4(A	E7	70	A2Y70-3	E640A/1A	YES	1
A	D1P	1PD1P11A	C5762A	SFRC3 CH.3 LOGIC PANEL	400	A2Y400-4(A	E7	20	A2Y20-1(A)	E640A/1A, DCN 38	YES	1
A	D1P	1PD1P12A	RC4801	RELAY CABINET RC4801	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1A	YES	1
A	D1P	1PD1P14A	C4603	CRD BKR B SHUNT TRIP CKT	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/1A	YES	2
A	D1P	APD1P04A	DAP	125V DC DIST PANEL	400	A2Y400-4(A	E7	200	A2Y200-3	E640A/1A	YES	1
A	D1PA	1PD107A	AF3870	AFWP 1 DISCHARGE TO SG1	200	A2Y200-3	E7	100	A2Y100-3	E44B/20, E7	YES	1
A	D2	(BPD0N07A)	VARIOUS	LARGEST CONT PWR FU	70	A6Y70-1	E642A/4A	30	A2Y30-1	E5-51	YES	1
A	D2	BPAD210H	P241	NTR DRIVEN FEED PUMP	1200	50 DHP	E3	1200	50 DHP	E3, E200B	ACC	1,20
A	D2	BPAD20F7A	F7	SUBSTATION F7	1200	50 DHP	E3	1200	50 DHP	E3, E200B	ACC	1,20
A	D2N	2PD2N17A	RC4606	DC CONT PWR TO PORV	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/4A	YES	1
A	D2N	4CD2N15A	RC3604	RELAY CABINET RC3604	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/4A	YES	6
A	D2N	4PD2N03A	YRF4	RECTIFIER YRF4	400	A2Y400-4(A	E7	200	A2Y200-3	E640A/4A	YES	1,26
A	D2N	4PD2N05A	D1	D1 CONTROL POWER	400	A2Y400-4(A	E7	70	A2Y70-3	E640A/4A	YES	1
A	D2N	4PD2N07A	F1	F1 CONTROL POWER	400	A2Y400-4(A	E7	60	A2Y60-1	E640A/4A	YES	1
A	D2N	4PD2N09A	C3616	EDG1-2 PANEL (ALT)	400	A2Y400-4(A	E7	70	A2Y70-3	E640A/4A	YES	2
A	D2N	4PD2N14A	C4612	CRD BKR C SHUNT TRIP CKT	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/4A	YES	6
A	D2N	BPD2N04A	DBN	125VDC DIST PANEL	400	A2Y400-4(A	E7	200	A2Y200-3	E640A/4A	YES	1
A	D2P	2CD2P13A	ZC6451	AFP #2 CTRL VLV ZC6451	400	A2Y400-4(A	E7	10	A2Y10-1	E640A/2A	YES	5
A	D2P	2CD2P15A	PD155018	PD155018	400	A2Y400-4(A	E7	5	A2Y5-1	E640A/2A	YES	2
A	D2P	2CD2P18A	C5756D	SFAS LOGIC ACTUATED CH2	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/2A	YES	1
A	D2P	2CD2P19A	C5755C	SFAS POWERED SV	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/2A	YES	1
A	D2P	2CD2P20A	CDF-12A-1	CONT PWR AFWP GOV	400	A2Y400-4(A	E7	30	A2Y30-1	E640A/2A	YES	1
A	D2P	2CD2P20B	CDF-11C	CONT PWR SW1383	400	A2Y400-4(A	E7	NA	NONE	E640A/2A	YES	1
A	D2P	2CD2P20C	RC4605	NON SSD RELAYS	400	A2Y400-4(A	E7	NA	NONE	E640A/2A	YES	7
A	D2P	2CD2P20D	CDF-11D	NON SSD CONT PWR	400	A2Y400-4(A	E7	NA	NONE	E640A/2A	YES	7

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DAVIS BESSE		APPENDIX C-3						AREA OPTIMIZATION				
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	D2P	2CD2P21A	RC3702	RELAY CABINET	400	A2Y400-4(A)	E7	30	A2Y30-1	E640A/2B	YES	5
	D2P	2CD2P21B	RC3602	DC CONTROL POWER RCP MONI	400	A2Y400-4(A)	E7	NA	NONE	E640A/2B	YES	5
	D2P	2CD2P21C	RC3608	CONTROL POWER (TO CCCW002	400	A2Y400-4(A)	E7	NA	NONE	E640A/2B	YES	5
	D2P	2CD2P23A	F1S11422D	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A)	E7	5	A2Y5-1	E640A/2B, E633B/23	YES	1
	D2P	2CD2P23B	F1S11427D	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A)	E7	NA	NONE	E640A/2C, E633B/23	YES	1
	D2P	2CD2P23C	F1S11432C	FLOW SWITCH CCWS PUMP	400	A2Y400-4(A)	E7	NA	NONE	E640A/2B, E633B/23	YES	1
	D2P	2CD2P24A	C2736	AFPT 2 SPEED MON	400	A2Y400-4(A)	E7	5	A2Y5-1	E640A/2B	YES	2
	D2P	2PD2P03A	YRF2	RECTIFIER YRF2	400	A2Y400-4(A)	E7	200	A2Y200-3	E640A/2A	YES	1, 26
	D2P	2PD2P05A	D1	D1 CONTROL POWER	400	A2Y400-4(A)	E7	70	A2Y70-3	E640A/2A	YES	1
	D2P	2PD2P06A	P43-3	CCW PUMP 3	400	A2Y400-4(A)	E7	60	A2Y60-1	E640A/2A	YES	1
	D2P	2PD2P07A	F1	F1 CONTROL POWER	400	A2Y400-4(A)	E7	60	A2Y60-1	E640A/2A	YES	1
	D2P	2PD2P08A	P3-3	SW PUMP 3	400	A2Y400-4(A)	E7	60	A2Y60-1	E640A/2A	YES	1
	D2P	2PD2P09A	C3616	EDG1-2 PANEL	400	A2Y400-4(A)	E7	70	A2Y70-3	E640A/2A	YES	1
	D2P	2PD2P10A	ZC6460	MDFP CTRL VLV ZC6460	400	A2Y400-4(A)	E7	10	A2Y10-1	E640A/2A	YES	6
	D2P	2PD2P11A	C5792	SFRCS RELAY CABINET	400	A2Y400-4(A)	E7	20	A2Y20-1	E640A/2A, DCN 39	YES	1
	D2P	2PD2P12A	RC4606	SV & MU TANK RELAYS	400	A2Y400-4(A)	E7	30	A2Y30-1	E640A/2B	YES	5
	D2P	2PD2P14A	C4606	CRD BKR A SHUNT TRIP CKT	400	A2Y400-4(A)	E7	30	A2Y30-1	E640A/2A	YES	5
	D2P	BDP2P04A	DBP	125VDC DIST PANEL	400	A2Y400-4(A)	E7	200	A2Y200-3	E640A/2A	YES	1
	DAN	ACDAN19A	C4603	CRD PRIMARY TRIP BKR A	200	A2Y200-3	E7	30	A2Y30-1	E642A/3A	YES	6
	DAN	ACDAN20A	XAC	BUS TIE XFMR AC	200	A2Y200-3	E7	20	A2Y20-1	E642A/3A	YES	1
	DAN	ACDAN21A	C1701	MISC WASTE EVAPORATOR PNL	200	A2Y200-3	E7	30	A2Y30-1	E642A/3B	YES	6
	DAN	ACDAN23A	C2701	BORIC ACID EVAPORATOR PNL	200	A2Y200-3	E7	30	A2Y30-1	E642A/3B	YES	6
	DAN	ACDAN25A	C3625	DG1-1 DC OIL PMP CTRL BOX	200	A2Y200-3	E7	30	A2Y30-1	E642A/3B	YES	6
	DAN	APDAN01A	C5750A	ALT GEN XFMR CABINET	200	A2Y200-3	E7	70	A2Y70-3	E642A/3A	YES	6
	DAN	APDAN02A	HA01	13.8KV SWGR A DC CTRL	200	A2Y200-3	E7	70	A2Y70-3	E642A/3A	YES	1
	DAN	APDAN02B	HAAC	13.8KV SWGR A DC CTRL	200	A2Y200-3	E7	NA	NONE	E642A/3A	YES	1
	DAN	APDAN03A	E6	480VAC USS DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/3A	YES	6
	DAN	APDAN04A	E2	480VAC USS DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/3A	YES	6
	DAN	APDAN05A	E3	480VAC USS DC CTRL (ALT)	200	A2Y200-3	E7	100	A2Y100-3	E642A/3A	YES	6
	DAN	APDAN06A	E4	480VAC USS DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/3A	YES	6
	DAN	APDAN07A	C2	BREAKER CONT POWER	200	A2Y200-3(A)	E7	70	A2Y70-3(A)	E642A/3A	YES	1
	DAN	APDAN24A	RC4802	CONT PWR (TO MUTX, SG DRN	200	A2Y200-3(A)	E7	30	A2Y30-1	E642A/3B	YES	5
	DAP	ACDAP19A	RC4601	RCS COOL CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/1A	YES	6
	DAP	ACDAP21A	C3312	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	20	A2Y20-1	E642A/1B	YES	6
	DAP	ACDAP21B	C3314	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP21C	C3311	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP21D	C3310	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP21E	J13635	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP21F	C4105	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP21G	FPS8701	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP23A	X01	START UP XFMR 1	200	A2Y200-3	E7	20	A2Y20-1	E642A/1B	YES	6
	DAP	ACDAP24A	X11	AUX XFMR 11	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
	DAP	ACDAP25A	C3305	GEN ISO PHASE BUS ANNUN	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
	DAP	ACDAP26A	RC3717	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
	DAP	ACDAP26B	RC2825	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
	DAP	ACDAP27A	RC3003	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6

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DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION
 BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING		
DAP	ACDAP27B	RC3001	RELAY CABINET	200	A2Y200-3	E7	N/A	NONE	E642A/1B	YES	6
DAP	ACDAP28A	RC3715	RELAY CABINET	200	A2Y200-3(A)	E7	30	A2Y30-1(A)	E642A/1B	YES	6
DAP	ACDAP28B	RC1760	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
DAP	ACDAP29A	RC4311	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
DAP	ACDAP29B	RC2404	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
DAP	ACDAP29C	RC3005	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
DAP	ACDAP30A	C3304	AUX BOILER CTRL PANEL	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
DAP	ACDAP31A	HA03	13.8KV BRKR CTRL	200	A2Y200-3	E7	5	A2Y5-1	E642A/1B, E200B(J)	YES	6
DAP	ACDAP31B	HA01	13.8KV BRKR CTRL	200	A2Y200-3	E7	N/A	NONE	E642A/1B, E200B(J)	YES	6
DAP	ACDAP32A	BCE5	LTG DIST CENTER E5 BRKR	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
DAP	ACDAP33A	C3610	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/1B	YES	6
DAP	ACDAP33B	C3617	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
DAP	APDAP01A	C5750A	GEN XFMR RELAY BOARD	200	A2Y200-3	E7	70	A2Y70-3	E642A/1A	YES	6
DAP	APDAP02A	HA01	13.8KV SWGR BUS A DC CTRL	200	A2Y200-3	E7	70	A2Y70-3	E642A/1A	YES	1
DAP	APDAP02B	HAAC	13.8KV SWGR BUS A DC CTRL	200	A2Y200-3	E7	NA	NONE	E642A/1A	YES	6
DAP	AFDAP03A	E6	ALT 480VAC USS E6 DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/1A	YES	6
DAP	AFDAP04A	E2	480VAC USS F2 DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/1A	YES	6
DAP	AFDAP05A	E3	480VAC USS F3 DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/1A	YES	6
DAP	AFDAP06A	E4	ALT 480VAC USS E4 DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/1A	YES	6
DAP	APDAP07A	C2	4.16KV AC SWGR	200	A2Y200-3	E7	70	A2Y70-3	E642A/1A	YES	1
DAP	APDAP08A	D3602	FUSE PANEL D3602	200	A2Y200-3	E7	100	A2Y100-3	E642A/1A	YES	6
DAP	AFDAP22A	C57622	SFRCS NON-ESS SV	200	A2Y200-3	E7	20	A2Y20-1	E642A/1B, DCN 25	YES	6
DBN	BCDBN19A	C4606	CRD PRIMARY TRIP BKR B	200	A2Y200-3	E7	30	A2Y30-1	E642A/4A	YES	6
DBN	BCDBN20A	XBD	BUS TIE XFMR BD	200	A2Y200-3	E7	20	A2Y20-1	E642A/4A	YES	6
DBN	BCDBN21A	C2702	MISC WASTE EVAPORATOR PNL	200	A2Y200-3	E7	30	A2Y30-1	E642A/4B	YES	6
DBN	BCDBN23A	BDP5	LTG DIST CENTER F5 BKR	200	A2Y200-3	E7	30	A2Y30-1	E642A/4B	YES	6
DBN	BCDBN25A	C3626	DG 1-2 OIL PMP CTRL BOX	200	A2Y200-3	E7	30	A2Y30-1	E642A/4B	YES	6
DBN	BPDBN01A	C5750B	ALT GEN XFMR CABINET	200	A2Y200-3	E7	70	A2Y70-3(A)	E642A/4A	YES	6
DBN	BPDBN02A	HB01	13.8KV SWGR A DC CTRL	200	A2Y200-3	E7	70	A2Y70-3(A)	E642A/4A	YES	6
DBN	BPDBN02B	HB14	13.8KV SWGR A DC CTRL	200	A2Y200-3	E7	NA	NONE	E642A/4A	YES	6
DBN	BPDBN04A	F2	480VAC USS DC CTRL	200	A2Y200-3	E7	100	A2Y100-3(A)	E642A/4A	YES	6
DBN	BPDBN05A	F3	480VAC USS DC CTRL	200	A2Y200-3	E7	100	A2Y100-3(A)	E642A/4A	YES	6
DBN	BPDBN07A	D2	BREAKER CONT POWER	200	A2Y200-3	E7	70	A2Y70-3	E642A/4A	YES	1
DBN	BPDBN11A	F7	BRKR CONT POWER (MDFP)	200	A2Y200-3	E7	60	A2Y60-1	E642A/4A	YES	1
DBN	BPDBN24A	RC4804	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/4B	YES	5
DBP	BCDBP09A	C6720	AVV POSITION INDICATION	200	A2Y200-3	E7	10	A2Y10-1	E642A/2A	YES	6
DBP	BCDBP17A	C4301	GEN VOLT REG CABINET	200	A2Y200-3	E7	35	A2Y35-1	E642A/2A	YES	6
DBP	BCDBP18A	J15302	GEN FIELD BRKR J15302	200	A2Y200-3	E7	35	A2Y35-1	E642A/2A	YES	6
DBP	BCDBP19A	C3303	GEN COOL SYS CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2A	YES	6
DBP	BCDBP20A	C3611	RELAY CABINET C3611	200	A2Y200-3	E7	30	A2Y30-1	E642A/2A	YES	6
DBP	BCDBP20B	C3618	RELAY CABINET C3618	200	A2Y200-3	E7	NA	NONE	E642A/2A	YES	6
DBP	BCDBP21A	RC4602	RCS PRZR HEATERS CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	6
DBP	BCDBP22A	C5105	COMB BUT VLV STN CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B, E200B	YES	6
DBP	BCDBP23A	C5757B	EHC SYSTEM CABINET	200	A2Y200-3	E7	20	A2Y20-1	E642A/2B	YES	6
DBP	BCDBP24A	C1708	PROCESS SAMPLE PANEL	200	A2Y200-3	E7	10	A2Y10-1	E642A/2B, E200B(J)	YES	6
DBP	BCDBP25A	J15302	DG1-1 OIL PMP CTRL BOX	200	A2Y200-3	E7	20	A2Y20-1	E642A/2B	YES	6

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POWER SUPPLY		CIRCUIT	COMPONENT	DESCRIPTION	RATING	FEEDER		RATING	LOAD		COORDINATED	NOTES
						TYPE	DRAWING		TYPE	DRAWING		
DBP		BCDBP26A	HB01	13.8KV BKR HB01 CTRL	200	A2Y200-3	E7	5	A2Y5-1	E642A/2B, E200B(J)	YES	6
DBP		BCDBP26B	HB03	13.8KV BKR HB03 CTRL	200	A2Y200-3	E7	NA	NONE	E642A/2B, E200B(J)	YES	6
DBP		BCDBP27A	X02	START-UP XFMR 02	200	A2Y200-3	E7	20	A2Y20-1	E642A/2B	YES	6
DBP		BCDBP28A	X1	MAIN XFMR 1	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	6
DBP		BCDBP29A	RC3718	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	6
DBP		BCDBP29B	RC2826	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP30A	RC3716	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	5
DBP		BCDBP30B	RC1761	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	5
DBP		BCDBP31A	RC4410	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	6
DBP		BCDBP31B	RC3004	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP31C	RC3002	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP32A	C3316	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	20	A2Y20-1	E642A/2B	YES	6
DBP		BCDBP32B	C3315	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP32C	C3313	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP32D	J13635	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP32E	C5404	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP32H	C5405	FIRE PROTECTION EQUIP	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP33A	RC4401	RELAY CABINET	200	A2Y200-3	E7	30	A2Y30-1	E642A/2B	YES	6
DBP		BCDBP33B	RC2304	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP33C	RC3006	RELAY CABINET	200	A2Y200-3	E7	NA	NONE	E642A/2B	YES	6
DBP		BCDBP34A	C5760C	ELEC METER & XDUCE CAB	200	A2Y200-3	E7	20	A2Y20-1	E642A/2B	YES	6
DBP		BPDBP01A	C5750B	GEN XFMR RELAY BOARD	200	A2Y200-3	E7	70	A2Y70-3(A)	E642A/1B	YES	6
DBP		BPDBP02A	HB01	13.8KV SWGR BUS B DC CTRL	200	A2Y200-3	E7	70	A2Y70-3(A)	E642A/1B	YES	6
DBP		BPDBP02B	HB14	13.8KV SWGR BUS B DC CTRL	200	A2Y200-3	E7	NA	NONE	E642A/1B	YES	6
DBP		BPDBP04A	F2	480VAC F2 DC CTRL(ALT)	200	A2Y200-3	E7	100	A2Y100-3(A)	E642A/1B	YES	6
DBP		BPDBP05A	F3	480VAC USS F3 DC CTRL	200	A2Y200-3	E7	100	A2Y100-3	E642A/1B	YES	6
DBP		BPDBP07A	D2	BREAKER CONT POWER ALT	200	A2Y200-3	E7	70	A2Y70-3	E642A/1B	YES	1
DBP		BPDBP08A	D3603	FUSE PANEL D3603	200	A2Y200-3	E7	100	A2Y100-3(A)	E642A/1B	YES	6
DBP		BPDBP11A	F7	480V UNIT SUB BUS F7(ALT)	200	A2Y200-3	E7	60	A2Y60-1	E642A/1B	YES	5
DBP		BPDBP16A	C57922	SFRCS NON ESS SV	200	A2Y200-3	E7	20	A2Y20-1(A)	E642A/1B, DCN 26	YES	6
DC MCC 1		1PD101A	D1P	125V DC DIST PANEL	1600	A2Y1600-4	E6/3	400	A2Y400-4(A)	E6/3	YES	1
DC MCC 1		1PD106A	P197-2	HPI PUMP 1 DC LO PUMP	1600	A2Y1600-4	E6/3	10	A2Y10-4	E6/3	YES	1
DC MCC 1		1PD128A	D1PA	125V DC MCC	1600	A2Y1600-4	E6/3	200	A2Y200-4(A)	E6/3	YES	1
DC MCC 1		1PD132A	D1N	125V DC DIST PANEL	1600	A2Y1600-4	E6/3	400	A2Y400-4(A)	E6/3	YES	1
DC MCC 1		1PD145A	D1NA	125V DC MCC	1600	A2Y1600-4	E6/3	200	A2Y200-4(A)	E6/3	YES	1
DC MCC 1		APD111A	D57E1	EMER LTG XFR SW 1	500	A2Y500-4	E6/3	80	A2Y80-3(A)	E6/3	YES	6
DC MCC 1		APD112A	D57E1	EMER LTG XFR SW 3	500	A2Y500-4	E6/3	80	A2Y80-3(A)	E6/3	YES	6
DC MCC 1		1PD113A	MP0724	RCP BACKUP OIL LIFT PMP	500	A2Y500-4	E6/3	60	A2Y60-1	E6/3	YES	6
DC MCC 1		APD114A	MP0721	RCP BACKUP OIL LIFT PMP	500	A2Y500-4	E6/3	60	A2Y60-1	E6/3	YES	6
DC MCC 1		APD115A	MP0281	MFPT 1 EMERG BRG OIL PMP	500	A2Y500-4	E6/3	50	A2Y50-1	E6/3	YES	6
DC MCC 1		APD116A	YVA	125V DC INVERTER	500	A2Y500-4(A)	E6/3	300	A2Y300-4(A)	E6/3	YES	1
DC MCC 1		APD117A	P-371C	MUP1 AUX LUBE OIL PUMP	500	A2Y500-4	E6/3	10	A2Y10-1	E6/3	YES	1
DC MCC 1		APD118A	MP0210	TG EMER BRG OIL PUMP	500	A2Y500-4	E6/3	225	A2Y225-1(A)	E6/3	YES	6
DC MCC 2		2PD202A	D2P	125V DC DIST PANEL	1600	A2Y1600-4	E6/4	400	A2Y400-4(A)	E6/4	YES	1
DC MCC 2		2PD235A	D2N	125V DC DIST PANEL	1600	A2Y1600-4	E6/4	400	A2Y400-4(A)	E6/4	YES	1
DC MCC 2		BPDB206A	P198-2	HPI PMP 2 DC LUBE OIL PMP	1600	A2Y1600-4	E6/4	10	A6Y10-1	E6/4	YES	1

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Blank = Same as CAR Rev. 5

C = Correction

DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION
 BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
	DC MCC 2	EPD211A	D41E1	EMER LTG XFR SW 2	500	A2Y500-4	E6/4	80	A2Y80-3(A)	E6/4	YES	6
	DC MCC 2	BPD212A	D49E1	EMER LTG XFR SW 4	500	A2Y500-4	E6/4	80	A2Y80-3(A)	E6/4	YES	6
	DC MCC 2	BPD213A	MP0723	RCP BACKUP OIL LIFT PMP	500	A2Y500-4	E6/4	60	A2Y60-1	E6/4	YES	6
	DC MCC 2	BPD214A	MP0722	RCP BACKUP OIL LIFT PMP	500	A2Y500-4	E6/4	60	A2Y60-1	E6/4	YES	6
	DC MCC 2	BPD215A	MP0282	MFPT 2 EMERG BRG OIL PMP	500	A2Y500-4	E6/4	50	A2Y50-1	E6/4	YES	6
	DC MCC 2	BPD216A	YVB	125V DC INVERTER	500	A2Y500-4	E6/4	300	A2Y300-4(A)	E6/4	YES	1
	DC MCC 2	BPD217A	P-372C	MUP2 AUX LUBE OIL PUMP	500	A2Y500-4	E6/4	10	A2Y10-1	E6/4	YES	1
	DC MCC 2	BPD218A	MP0230	T-G H2 EMERG SEAL OIL PMP	500	A2Y500-4	E6/4	60	A2Y60-1	E6/4	YES	6
A	E1	1PBE105A	E15	480VAC MCC	2080	AK-50S	E4/1	480	AK-25/SSST	E4/1	YES	1
A	E1	1PBE106A	E12A	480VAC MCC	2080	AK-50S	E4/1	600	AK-25/SSST	E4/1	YES	1
	E1	1PBE107A	E11A	480VAC MCC	2080	AK-50S	E4/1	600	AK-25/SSST	E4/1	YES	1
	E1	1PBE110A	E14	480VAC MCC	2080	AK-50S	E4/1	480	AK-25/SSST	E4/1	YES	1
	E1	1PBE111A	P56-1	CS PUMP 1	2080	AK-50S	E4/1	600	AK-25/SSST	E4/1	YES	1
	E1	1PBE118A	E16A	480VAC MCC	2080	AK-50S	E4/1	600	AK-25/SSST	E4/1	YES	1
	E1	AFBE113A	F13	480V AC MCC	2080	AK-50S	E4/1	600	AK-25/SSST	E4/1	YES	6
	E11A	1PBE1101A	E11C	AUTO BKR REMOVED	600	AK-25/SSST	E4/1	N/A	NONE	E6/1	YES	1,8
	E11A	1PBE1102A	MC0621	H2 DILUTION SYS BLOWER 1	600	AK-25/SSST	E4/1	70	HFB 3070	E6/1	YES	6
	E11A	1PBE1103A	HP02C	HP1 1 DISCH ISO VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	1
A	E11A	1PBE1104A	MV5439	ECCS RM 105 HVAC ISO VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
A	E11A	1PBE1105A	HP02D	HP1 1 DISCH ISO VLV	480	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	1
A	E11A	1PBE1106A	DH01B	LPI LINE 1 VLV	600	AK-25/SSST	E4/1	70	HFB 3070	E6/1	YES	1
A	E11A	1PBE1107A	MV5440	ECCS RM 105 HVAC ISO VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	1PBE1112A	DH09B	CTMT SUMP ISO VLV B	600	AK-25/SSST	E4/1	N/A	NONE	DEPOWERED	N/A	5
	E11A	1PBE1113A	MV5090	CTMT H2 DLIN LINE 1 VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	1PBE1115A	MP891A	ECCS SUMP PUMP 1A	600	AK-25/SSST	E4/1	30	HFB 3030	E6/1	YES	6
	E11A	1PBE1116A	MP891B	ECCS SUMP PUMP 1B	600	AK-25/SSST	E4/1	30	HFB 3030	E6/1	YES	6
	E11A	1PBE1117A	MP893A	ECCS SUMP PUMP 3A	600	AK-25/SSST	E4/1	30	HFB 3030	E6/1	YES	6
	E11A	1PBE1118A	MP893B	ECCS SUMP PUMP 3B	600	AK-25/SSST	E4/1	30	HFB 3030	E6/1	YES	6
A	E11A	1PBE1120A	E11B	480VAC MCC	600	AK-25/SSST	E4/1	225	HKA 225	E6/1	YES	1
	E11A	1PBE1121A	DH2733	DH PUMP 1 BWST SUCT VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	1
	E11A	1PBE1123A	MV2001	CTMT ISO VALVE PENET 72A	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	1PBE1124A	MV2003	CTMT ISO VALVE PENET 74A	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	1PBE1129A	MVRC10	PRZR SPRAY LINE ISO VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
A	E11A	1PBE1132A	E11D	AUTO BKR REMOVED	600	AK-25/SSST	E4/1	N/A	NONE	E6/1	YES	1,8
	E11A	1PBE1135A	MV5422	ECCS RM 105 CLR 4 OUT VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	1PBE1136A	MV5421	ECCS RM 105 CLR 5 OUT VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
A	E11A	1PBE1137A	DH07B	BWST ISO VLV B	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	1
	E11A	1PBE1170A	MV5038	CTMT H2 DILUT OUT ISO VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	AFBE1109A	MVMU40	DEMIN WTR STOP VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11A	AFBE1125A	MVMU12A	MU FILTER 1 IN VLV	600	AK-25/SSST	E4/1	15	HFB 3015	E6/1	YES	6
	E11B	1PBE1108A	MV2012A	CTMT NORM SUMP ISO VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	6,21
	E11B	1PBE1155A	DH2735	PRZR SPRAY LINE ISO VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1158A	MV1567A	CC IN ISO VLV 1 TO CRD	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	6,21
	E11B	1PBE1162A	CF01B	CORE FLOOD TK 1 ISO VLV	225	HKA 225	E6/1	40	HFB 3040	E6/1, DCN 57	NO	1,21
A	E11B	1PBE1163A	MVCF02B	CF TANK 1 SAMPLE VALVE	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	6,21
	E11B	1PBE1165A	MVCF05B	CF TANK 1 VENT VALVE	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	6,21

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BREAKER COORDINATION EVALUATION SUMMARY

	POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER		LOAD			COORDINATED	NOTES	
					RATING	TYPE	DRAWING	RATING	TYPE			DRAWING
A	E11B	1PBE1171A	MU02A	LETDOWN CLR OUT VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1172A	MU02B	LETDOWN CLR IN VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1173A	CC1407A	CC OUT ISO VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1174A	MU59A	RCP 2-1 SEAL RET LINE VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1175A	MU59B	RCP 2-2 SEAL RET LINE VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1176A	CC1411A	CC IN ISO VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1177A	MU59C	RCP 1-1 SEAL RET LINE VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1178A	MU59D	RCP 1-2 SEAL RET LINE VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	1,21
	E11B	1PBE1180B	XYE2A	INCOMING XFER YE2	225	HKA 225	E6/1	50	HFB 3050	E6/1	NO	1,21
	E11B	1PBE1181A	MV0240A	RC PRZR SMPLE VLV 1	225	HKA 225	E6/1	15	HFB 3015	E6/1	NO	6,21
A	E11B	1PBE1183A	DH12	DH NORM SUCT LINE VLV	225	HKA 225	E6/1	40	HFB 3040	E6/1	NO	1,21
	E11B	1PBE1169A	MCO561	CTMT RECIRCULATION FAN 1	225	HKA 225	E6/1	**50	HFB 3150	E6/1	NO	6,21
	E11C	1PBE1137A	MV5070	CTMT VACM RELIEF VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1138A	MV5071	CTMT VACM RELIEF VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1139A	MV5072	CTMT VACM RELIEF VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1140A	MV5073	CTMT VACM RELIEF VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1141A	MV5074	CTMT VACM RELIEF VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1142A	SW1366	CAC 1 IN ISO VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	1
	E11C	1PBE1144A	MV5261A	CTRM EMER VENT FN IN VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	6
	E11C	1PBE1150A	E11E	480V AC MCC FEEDER	600	AK-25/SST	E6/1	70	HFB 3070	E6/1	YES	1
	E11C	1PBE1154A	C75-1	CCW PMP RM VENT FAN 1	600	AK-25/SST	E6/1	30	HFB 3030	E6/1	YES	1
	E11C	1PBE1156A	CS1530	CTMT SPRAY ISO VLV	600	AK-25/SST	E6/1	15	HFB 3015	E6/1	YES	1
	E11C	1PBE1159A	MV0612	MN FW 1 ISO VLV	600	AK-25/SST	E6/1	100	HFB 3100	E6/1	YES	6
	E11C	1PBE1167A	BSWX79D3	CTMT LIGHTING DISC SWITCH	600	AK-25/SST	E6/1	150	HFB 3150	E6/1	YES	6
	E11C	1PBE1168A	X39D1	CONTAINMENT LIGHTING XFMR	600	AK-25/SST	E6/1	70	HFB 3070	E6/1	YES	6
	E11C	1PBE1179A	MP0411	FRI WTR XFER PUMP 1	600	AK-25/SST	E6/1	150	HFB 3150	E6/1	YES	6
	E11C	1PBE1186A	NC3801	H2 RECOMBINATION STARTER	600	AK-25/SST	E6/1	100	HFB 3100	E6/1, E200	YES	6
	E11C	1PBE1186B	NC3802	H2 RECOMBINATION STATION	600	AK-25/SST	E6/1	N/A	NONE	E6/1, E200	YES	6
	E11C	1PBE1186C	C3830	CONT PANEL C3830	600	AK-25/SST	E6/1	N/A	NONE	E6/1, E200	YES	6
	E11D	1PBE1126A	DH1517	DH NORM SUCT LINE 1 VLV	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	1
	E11D	1PBE1127D	MU6405	RC MU PUMP SUCT VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11D	1PBE1133A	MV5067	CTMT H2 PURGE FN 1 IN VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
	E11D	1PBE1147F	DH6409	MUP DISCH X-CONN VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11D	1PBE1161A	CC2645	CC RETURN HDR 1 VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11D	1PBE1190A	DBCTFN	125VDC BATTERY CHARGER	600	AK-25/SST	E4/1	225	HKA 225	E6/1	YES	1
	E11D	1PBE1194E	MU6421	MU CTMT ISO VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11D	1PBE1195A	MV0831	DHR CLR 1 OUT XOVER	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
	E11D	1PBE1197A	MRE5327	CTRM VENT SYS VACM PMP 1	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
	E11D	1PBE1199A	MV1328	CC CRD BOOST PMP SUCT VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
	E11D	1PBE1185A	MP0381	BA PUMP 1	600	AK-25/SST	E4/1	20	HFB 3020	E6/1	YES	6
	E11D	1PBE1188A	WE1711	BA ADD TANK 1 HEATER 1	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6
	E11D	1PBE1189A	WE1712	BA ADD TANK 1 HEATER 2	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6
	E11D	1PBE1191A	P-371B	MUP 1 MAIN LO PUMP	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11D	1PBE1192A	P-371D	MUP 1 AUX GEAR LO PUMP	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
	E11E	1PBE1145A	MV0655B	CTMT ISO VLV PENT 73	70	HFB 3070	E6/1	15	HFB 3015	E6/1	NO	6,21
A	E11E	1PBE1146A	AF3849	ATMP 1 DISCH TO SG2	70	HFB 3070	E6/1	15	HFB 3015	E6/1	NO	1,21

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BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	RATING	FEEDER		RATING	LOAD		COORDINATED	NOTES	
					TYPE	DRAWING		TYPE	DRAWING			
A	E11E	1PBE1148A	MV4906	CTRM STANDBY COND 1 DMPR	70	HFB 3070	E6/1	15	HFB 3015	E6/1	NO	6,21
A	E11E	1PBE1160A	AF60B	AFW TO SGT ISO VLV	70	HFB 3070	E6/1	15	HFB 3015	E6/1	NO	1,21
A	E11E	1PBE1187A	DH64	LPI/HPI CROSS-TIE VLV	70	HFB 3070	E6/1	15	HFB 3015	E6/1	NO	1,21
A	E12A	1PBE1201A	MS0611	CTRM STANDBY COND 1 FAN	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6
A	E12A	1PBE1202A	E12C	480VAC MCC	600	AK-25/SST	E4/1	225	HKA 225	E6/1	YES	1
A	E12A	1PBE1207A	E12C	480VAC MCC	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1208E	HV5597	BATT RM 429B ATM DMPR	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1209A	C21-1	CTRM EVS FAN 1	600	AK-25/SST	E4/1	20	HFB 3020	E6/1	YES	1
A	E12A	1PBE1213A	WMB1	Power Circuit(WMB1)	250	LA 250	E6/1 (BE1223)	70	HFB 3070	E6/1	YES	5
A	E12A	1PBE1214A	WMB2	Power Circuit(WMB2)	250	LA 250	E6/1 (BE1223)	70	HFB 3070	E6/1	YES	5
A	E12A	1PBE1215A	WMB3	Power Circuit(WMB3)	250	LA 250	E6/1 (BE1223)	70	HFB 3070	E6/1	YES	5
A	E12A	1PBE1216A	S33-1	CTRM EMERG A/C UNIT 1	600	AK-25/SST	E4/1	40	HFB 3040	E6/1	YES	1
A	E12A	1PBE1217A	C71-1	LV SWGR RM VENT FAN 1	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1218A	SW1382	AFP 1 SUCT VLV FROM SW	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1219A	KE0301	EMER VENT FAN 1	600	AK-25/SST	E4/1	70	HFB 3070	E6/1	YES	6
A	E12A	1PBE1220A	YRF1	480VAC/125VDC RECTIFIER	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6,26
A	E12A	1PBE1221A	YRF3	480VAC/125VDC RECTIFIER	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6,26
A	E12A	1PBE1222A	C73-1	AFP RM VENT FAN 1	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	1
A	E12A	1PBE1223A	WMB1,2,3	Power Circuit (WMB1,2,3)	600	AK-25/SST	E4/1	250	LA 250	E6/1, CASCADED	YES	5,25
A	E12A	1PBE1224A	E12B	AUTO BKR REMOVED	600	AK-25/SST	E4/1	N/A	NONE	E6/1	YES	1,8
A	E12A	1PBE1226A	CC5095	CC HDR 1 IN ISO VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1227A	CC5097	CC HDR 1 RETURN ISO VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1232A	SW2927	CTRM EVS COND UNIT IN VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1233A	DBC1P	125VDC BATTERY CHARGER	600	AK-25/SST	E4/1	225	HKA 225	E6/1	YES	1
A	E12A	1PBE1234A	E12E	480VAC MCC	600	AK-25/SST	E4/1	150	HFB 3150	E6/1	YES	1
A	E12A	1PBE1235A	DBC1N	125VDC BATTERY CHARGER	600	AK-25/SST	E4/1	225	HKA 225	E6/1	YES	1
A	E12A	1PBE1237A	MC5017	EMER VENT DISCH FAN DMPR	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12A	1PBE1238A	MC5056	CROSS-TIE DUCT WORK DMPR	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12A	1PBE1239A	MC5024	FUEL HAND AREA BYPASS VLV	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12A	1PBE1240A	HV5305A	LV SWGR RM 429 DAMPER	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12A	1PBE1241A	HV5305B	LV SWGR RM 429 DAMPER	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12B	1PBE1255A	C25-1	EDG RM 1 VENT FAN 1	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	1
A	E12B	1PBE1256A	C25-2	EDG RM 1 VENT FAN 2	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	1
A	E12B	1PBE1258A	C3621	EMER DG 1 IMMERSION HTR	600	AK-25/SST	E4/1	30	HFB 3030	E6/1	YES	6
A	E12B	1PBE1259A	YE1	FDR TO 120V AC MCC	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12B	1PBE1261A	MP1471	EMER DG 1 SOAK PUMP	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	1PBE1271A	MS106A	AFPT 1 MS IN X-CORN	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12B	1PBE1273A	E12F	480VAC MCC	600	AK-25/SST	E4/1	100	HFB 3100	E6/1	YES	1
A	E12B	1PBE1285A	C07B-1	BATT RM VENT FAN 1	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	1
A	E12B	APBE1257A	MP0081	DO XFER PUMP 1	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	APBE1267A	MP1591	FUEL OIL BOOSTER PUMP 1	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	APBE1268A	MP173A	DO STRG 1K AREA SUMP PMP	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	APBE1269A	WE1091	DO PMP HSE ELEC UNIT HTR	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	APBE1270A	X3021	LTG XFER DO PMP HORISE	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12B	APBE1289A	MP1473	EDG 1 AC LUBE OIL PUMP	600	AK-25/SST	E4/1	15	HFB 3015	E6/1	YES	6
A	E12C	1PBE1205A	C99-2	SW FMP RM EXH FAN 2	225	HKA 225	E6/1	30	HFB 3030	E6/1,E6/5	NO	1,21

SYMBOLS: ALL = ACCEPTABLE (A) = ASSUMED TYPE

A - Added to FADR
 Blank = Same as CAR Rev.5
 C = Correction

DAVIS BESSE		APPENDIX C-3						AREA OPTIMIZATION				
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	E12C	1PBE1210A	E12D	480VAC MCC	225	HKA 225	E6/1	150	HFB 3150	E6/1,E6/5	NO	1,21
	E12C	1PBE1212A	C99-1	SW PMP RM EXH FAN 1	225	HKA 225	E6/1	30	HFB 3030	E6/1,E6/5	NO	1,21
	E12C	1PBE1274A	MF0151	SW PUMP STRNR 1	225	HKA 225	E6/1	15	HFB 3015	E6/1,E6/5	NO	6,21
A	E12C	1PBE1275A	MV1379	SW PUMP STRNR DRAIN VALVE	225	HKA 225	E6/1	15	HFB 3015	E6/1,E6/5	NO	6,21
A	E12C	1PBE1277A	SW1399	SW 150 VALVE TO CLNG WTR	225	HKA 225	E6/1	15	HFB 3015	E6/1,E6/5	NO	1,21
	E12C	1PBE1280A	EF12C	480VAC MCC	225	HKA 225	E6/1	90	HFB 3090	E6/1,E6/5	NO	5,21
A	E12C	1PBE1281A	SW2929	SW TO INT STRU VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1,E6/5	NO	1,21
A	E12C	1PBE1282A	SW2931	SW TO CLG TOWER MU VLV	225	HKA 225	E6/1	15	HFB 3015	E6/1,E6/5	NO	1,21
	E12D	APBE1203A	MC0100	TRAVELING SCREEN AREA VNT	150	HFB 3150	E6/5	30	HFB 3030	E6/5	NO	1,21
	E12D	APBE1204A	MF15401	BACKUP SW PUMP STRAINER	150	HFB 3150	E6/5	15	HFB 3015	E6/5	NO	6,21
	E12D	APBE1206A	MV4690	SW BACKUP PMP DRN VALVE	150	HFB 3150	E6/5	15	HFB 3015	E6/5	NO	6,21
	E12E	1PBE1245A	MU6419	MU DISCH VLV	150	HFB 3150	E6/1	15	HFB 3015	E6/1	NO	1,21
	E12E	1PBE1286A	HP32	HPI PMP1 RECIRC VLV	150	HFB 3150	E6/1	15	HFB 3015	E6/1	NO	1,21
	E12E	1PBE1292A	C31-4	ECCS RM 105 CLR FAN 4	150	HFB 3150	E6/1	30	HFB 3030	E6/1	NO	6,21
	E12E	1PBE1293A	C31-5	ECCS RM 105 CLR FAN 5	150	HFB 3150	E6/1	30	HFB 3030	E6/1	NO	6,21
	E12E	1PBE1293A	C31-5	ECCS RM 105 CLR FAN 5	150	HFB 3150	E6/1	15	HFB 3015	E6/1	NO	6,21
	E12E	1PBE1294H	MS611	MV0611 PWR CKT	150	HFB 3150	E6/1	15	HFB 3015	E6/1	NO	1,21
	E12E	1PBE1296A	P197-1	HPI PMP1 AC LO PMP	150	HFB 3150	E6/1	15	HFB 3015	E6/1	NO	1,21
	E12F	1PBE1298A	P195-1	EDG FUEL OIL TRANSFER PUM	100	HFB 3100	E6/1	15	HFB 3015	E6/1	NO	1,21
	E12F	APBE1299A	MC0111	EMER DG AIR COMP SR 1	100	HFB 3100	E6/1	30	HFB 3030	E6/1	NO	6,21
	E14	1PBE1401A	CT-1	CAC FAN 1 LRGST LOAD USED	480	AK-25/SST	E4/1	25	HFB 3025	E6/1	YES	1
	E15	1PBE105A	CT-3	CACS FAN 3 LRGST LOAD	480	A - /SST	E4/1	N/A	NONE	E6/1	YES	1
	E16A	1PBE1609A	E16B	INCMG CIRC BKR E16B	600	AK-25/SST	E4/1	250	LB 250	E6/5	YES	1
	E16A	1PBE1611A	RE4598AA	STA VENT EFF HI RAD MON	600	AK-25/SST	E4/1	15	HFB 3015	E6/5	YES	6
	E16A	1PBE1612A	RE4598AB	STA VENT EFF HI RAD MON	600	AK-25/SST	E4/1	15	HFB 3015	E6/5	YES	6
A	E16A	1PBE1616A	XY1	FEEDER CVTKY1 (B6-0272)	600	AK-25/SST	E4/1	40	HFB 3040	E6/5, DCN 80	YES	1
	E16A	1PBE1617A	XY3	FEEDER CVTKY3	600	AK-25/SST	E4/1	40	HFB 3040	E6/5, DCN 82	YES	1
	E16A	APBE1615A	BSW220X	E883/2 SECURITY	600	AK-25/SST	E4/1	100	HFB 3100	E6/5	YES	1
	E16B	1PBE1602A	RC11	PORV BLOCK VLV	250	LB 250	E6/5	15	HFB 3015	E6/5	NO	1,21
	E16B	1PBE1613A	RE4597AA	CTMT POST ACC HI RAD MON	250	LB 250	E6/5	15	HFB 3015	E6/5	NO	6,21
	E16B	1PBE1614A	RE4597AB	CTMT POST ACC HI RAD MON	250	LB 250	E6/5	15	HFB 3015	E6/5	NO	6,21
A	EDG-1	1PAC101A	CT	4.16KV AC SWGR	N/A	NONE	E3	1200	50 DHP	E3	YES	1,20
	EDG-2	2PAD101A	D1	4.16KV AC SWGR	N/A	NONE	E3	1200	50 DHP	E3	YES	1,20
	EF12C	3PBEF124A	MF0153	SW PMP STRNR 3	90	HFB 3090	E6/1	15	HFB 3015	E6/1	NO	6,21
A	EF12C	3PBEF125A	SW1381	SW PMP STRNR 3 DRN VLV	90	HFB 3090	E6/1	15	HFB 3015	E6/1	NO	6,21
	EF12C	CPBEF123A	MP0060	JOCKEY FIRE PUMP	90	HFB 3090	E6/1	20	HFB 3020	E6/1	NO	6,21
A	F1	2PBF105A	F15	480VAC MCC	2080	AK-50S	E4/2	480	AK-25/SST	E4/2	YES	1
	F1	2PBF110A	F14	480VAC MCC	2080	AK-50S	E4/2	480	AK-25/SST	E4/2	YES	1
	F1	2PBF111A	P56-2	CS PUMP 2	2080	AK-50S	E4/2	600	AK-25/SST	E4/2	YES	1
	F1	2PBF114A	F12A	480VAC MCC	2080	AK-50S	E4/2	600	AK-25/SST	E4/2	YES	1
	F1	2PBF115A	F11A	480VAC MCC	2080	AK-50S	E4/2	600	AK-25/SST	E4/2	YES	1
	F1	2PBF118A	F16A	480VAC MCC	2080	AK-50S	E4/2	600	AK-25/SST	E4/2	YES	1
	F1	BFBF115A	F13	480V AC MCC	2080	AK-50S	E4/2	600	AK-25/SST	E4/2	YES	6
A	F11A	2PBF1101B	XYE2A	TRM TO 240V AC MCC	600	AK-25/SST	E4/2	50	HFB 3050	E6/2	YES	1
	F11A	2PBF1102A	MRE532B	CTRM VENT SYS VACM FMP 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1103A	MV4907	CTRM STANDBY COND UNIT	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F11A	2PBF1106A	CC5096	CC HUR 2 IN 150 VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1

SYMBOLS: ACC - ACCEPTABLE (A) - ASSUMED TYPE

A = Added to FAOR
 Blank = Same as CAR Rev. 5
 C = Correction

DAVIS BESSE		APPENDIX C-3							AREA OPTIMIZATION			
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	F11A	2PBF1108E	MU6422	MU CTMT ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11A	2PBF1109A	MC0622	H2 DILUTION SYS BLWR 2	600	AK-25/SST	E4/2	70	HFB 3070	E6/2	YES	6
A	F11A	2PBF1110A	MV5065	CTMT H2 PURGE LINE 2 VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1111A	MS603	SG 2 DRAIN LINE ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1112A	C75-2	CCW PMP RM VENT FAN 2	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	1
	F11A	2PBF1118A	AF599	AFW TO SG2 ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11A	2PBF1119A	CC509B	CC HDR 2 RETURN ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11A	2PBF1120A	CF01A	CF TK2 ISO VALVE	600	AK-25/SST	E4/2	40	HFB 3040	E6/2	YES	1
	F11A	2PBF1121A	MVCF02A	CF TANK 2 SAMPLE VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1123A	MVCF05A	CF TANK 2 VENT VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F11A	2PBF1124A	MS107	AFPT 2 MS IN ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1125A	MV2736	PRZR SPRAY LINE ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F11A	2PBF1126A	RC239A	PZR VAPOR SPACE SMPL LINE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1127A	RC239B	PZR LIQUID SAMPLE VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F11A	2PBF1128A	MV0240B	RC PRZR SAMPLE VLV 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11A	2PBF1130A	DH11	DH NORM SUCT LINE VLV	600	AK-25/SST	E4/2	40	HFB 3040	E6/2	YES	6
	F11A	2PBF1131A	S33-2	CTRM EMERG A/C UNIT 2	600	AK-25/SST	E4/2	40	HFB 3040	E6/2	YES	1
	F11A	2PBF1132A	SW292B	CTRM EVS COND UNIT IN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F11A	2PBF1133A	MV133B	CC CRD BOOST PMP SUCT VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1137A	F11B	FEEDER TO MCC F11B	600	AK-25/SST	E4/2	225	HKA 225	E6/2	YES	1
	F11A	2PBF1140A	MV2000	CTMT ISO VALVE PENET 71A	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F11A	2PBF1143A	F11C	AUTO BKR REMOVED	600	AK-25/SST	E4/2	N/A	NONE	E6/2	YES	1,8
	F11A	2PBF1144A	MV2002	CTMT ISO VALVE PENET 73A	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F11A	2PBF1146A	F11D	FEEDER TO MCC F11D	600	AK-25/SST	E4/2	225	HKA 225	E6/2	YES	1
	F11A	2PBF1149A	C21-2	CTRM EVS FAN 2	600	AK-25/SST	E4/2	20	HFB 3020	E6/2	YES	1
	F11A	2PBF1180A	MV5075	CTMT VACUUM RELIEF VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1181A	MV5076	CTMT VACUUM RELIEF VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1182A	MV5077	CTMT VACUUM RELIEF VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1183A	MV5078	CTMT VACUUM RELIEF VALVE	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11A	2PBF1184A	MV5079	CONTROL VACUUM RELIEF VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F11A	2PBF1189A	F11E	FEEDER TO MCC F11E	600	AK-25/SST	E4/2	150	HFB 3150	E6/2	YES	1
	F11A	BPBF1113A	MC0562	CTMT RECIRC FAN 2	600	AK-25/SST	E4/2	150	HFB 3150	E6/2	YES	6
	F11A	BPBF1114A	X49D1	CTMT LTG XFMR	600	AK-25/SST	E4/2	70	HFB 3070	E6/2	YES	6
	F11A	BPBF1115A	BSWK79D1	CTMT LTG DISC SWCH	600	AK-25/SST	E4/2	150	LA 150	E6/2	YES	6
A	F11A	BPBF1116A	X57D1	CTRM & AUX BLDG LTG XFMR	600	AK-25/SST	E4/2	50	HFB 3050	E6/2	YES	6
	F11B	2CBF1188H	MS107A	SG 1 TO AFPT 2	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11B	2PBF1138A	MV2012B	CTMT NORM SUMP ISO VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11B	2PBF1147A	CS1531	CS PUMP OUT VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11B	2PBF1148A	DH07A	BWST OUT VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11B	2PBF1158A	CC1407B	CC OUT ISO VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11B	2PBF1159A	CC1411B	CC IN ISO VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11B	2PBF1160A	MV0624B	CTMT ISO VALVE PENET 72	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11B	2PBF1176A	MV1567B	CC IN ISO VALVE 2 TO CRD	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11B	2PBF1186A	MV5262	CTRM EMER VNT FN 2 IN VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11B	BPBF1152A	MP0412	PR1 WATER XFER PUMP 2	225	HKA 225	E6/2	150	HFB 3150	E6/2	NO	6,21
A	F11C	2CBF1141B	HP02B	HP INJECT VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1

SYMBOLS: ACC = ACCEPTABLE (A) = ASSUMED TYPE

A = Added to FAOR
 Blank = Same as CAR Rev. 5
 C = Correction

DAVIS BESSE		APPENDIX C-3						AREA OPTIMIZATION				
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	F11C	2PBF1129A	DH1518	DH NORM SUCTION VLV	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	1
	F11C	2PBF1134A	DH2734	DH BWST SUCTION VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11C	2PBF1136A	DH01A	LP INJECT VLV	600	AK-25/SST	E4/2	70	HFB 3070	E6/2	YES	1
	F11C	2PBF1139A	HP02A	HP INJECT VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11C	2PBF1142A	DH09A	CTMT EMER SUMP VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2, DCN 99	YES	5,11
	F11C	2PBF1151A	MV5037	CTMT H2 DILUT OUT ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F11C	2PBF1177A	SW1383	AFP 2 SUCTION VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11C	8PBF1167A	P-372B	MUP MN OIL PUMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11C	8PBF1168A	P-372D	MUP AUX LUBE OIL PUMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F11D	2PBF1117A	MV0601	MN FW 2 ISOLATION VALVE	225	HKA 225	E6/2	100	HFB 3100	E6/2	NO	6,21
A	F11D	2PBF1142A	DH09A	CTMT EMERG SUMP VLV	600	AK-25/SST	E4/2	N/A	DEPRD	E6/2, DCN 99	N/A	5,11
	F11D	2PBF1145A	WF60	H2 PURGE SYST FLT	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1153A	MPB92A	ECCS SUMP PUMP 2A	225	HKA 225	E6/2	30	HFB 3030	E6/2	NO	6,21
	F11D	2PBF1154A	MPB92B	ECCS SUMP PUMP 2B	225	HKA 225	E6/2	30	HFB 3030	E6,2	NO	6,21
A	F11D	2PBF1157A	C31-3	ECCS RM 113 CLR FAN 3	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1161A	CC2649	CC RETURN HDR 2 VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11D	2PBF1163A	MV5423	ECLS RM 113 CLR 3 OUT VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1164A	MV5068	CTMT H2 PURGE FN 2 IN VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1165A	MV5424	ECCS RM 115 CLR 2 OUT VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1166A	MV5425	ECCS RM 115 CLR 1 OUT VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1178A	MV5441	ECCS RM 115 HVAC ISO VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1179A	MV5442	ECCS RM 115 HVAC ISO VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	2PBF1185A	MV0830	DHR CLR 2 OUT KOVER	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
A	F11D	2PBF1187A	DBC2PN	FDR TO BAT CHGR DBC2PN	225	HKA 225	E6/2	225	HKA 225	E6/2	NO	1,21
	F11D	8PBF1107A	MUMJ12B	MU FLT 2 IN VLV	225	HKA 225	E6/2	15	HFB 3015	E6/2	NO	6,21
	F11D	8PBF1169A	MP0382	BA PUMP 2	225	HKA 225	E6/2	20	HFB 3020	E6/2	NO	6,21
	F11D	8PBF1171A	WE1721	BA ADD TANK 2 HEATER 1	225	HKA 225	E6/2	30	HFB 3030	E6/2	NO	6,21
	F11D	8PBF1172A	WE1722	BA ADD TANK 2 HEATER 2	225	HKA 225	E6/2	30	HFB 3030	E6/2	NO	6,21
	F11E	2PBF1192A	C31-1	ECCS RM 115 CLR FAN 1	150	HFB 3150	E6/2	30	HFB 3030	E6/2	NO	6,21
	F11E	2PBF1193A	C31-2	ECCS RM 115 CLR FAN 2	150	HFB 3150	E6/2	30	HFB 3030	E6/2	NO	6,21
	F11E	2PBF1194A	HP31	HPI PMP 2 RECIRC VLV	150	HFB 3150	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11E	2PBF1195A	DH63	LP1/HPI CROSS-TIE VLV	150	HFB 3150	E6/2	15	HFB 3015	E6/2	NO	1,21
	F11E	8PBF1196A	F11F	480VAC MCC F11F	150	HFB 3150	E6/2	150	HFB 3150	E6/2	NO	6,21
	F11F	8PBF1197A	C1710	SAMPLE PMP SPEED CTRLR	150	HFB 3150	E6/2	15	HFB 3015	E5/2	NO	6,21
	F11F	8PBF1197B	MP216	SAMPLE PMP SPEED CTRLR	150	HFB 3150	E6/2	N/A	NONE	E5/2, E200B	NO	6,21
	F11F	8PBF1198A	C1709	DEMIN WTR PMP SPEED CTRLR	150	HFB 3150	E6/2	15	HFB 3015	E5/2	NO	6,21
	F11F	8PBF1198B	MP217	DEMIN WTR PMP SPEED CTRLR	150	HFB 3150	E6/2	N/A	NONE	E5/2, E200B	NO	6,21
	F12A	2PBF1201A	AF3871	AFP 2 DISCH TO SG1	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1202A	F12C	AUTO BKR REMOVED	600	AK-25/SST	E1/2	N/A	NONE	E6/2	YES	1,8
	F12A	2PBF1203A	MC0302	EMER VENT FAN 2	600	AK-25/SST	E4/2	70	HFB 3070	E6/2	YES	6
	F12A	2PBF1204A	C133	LV SWGR RM VENT FAN 2	600	AK-25/SST	E4/2	40	HFB 3040	E6/2	YES	1
	F12A	2PBF1205A	C75-2	AFP RM VENT FAN 2	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	1
	F12A	2PBF1206A	F12B	AUTO BKR REMOVED	600	AK-25/SST	E1/2	N/A	NONE	E6/2	YES	1,8
	F12A	2PBF1208F	MU6408	MU CROSS CONNECT ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1209A	DBC2P	BATTERY CHARGER DBC2P	600	AK-25/SST	E4/2	225	HKA 225	E6/2	YES	1
	F12A	2PBF1210A	MV5598	BATT RM 42BA ATM DMPR	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1

SYMBOLS: ACC - ACCEPTABLE (A) - ASSUMED TYPE

A = Added to FAOR
 Blank = Same as CAR Rev. 5
 C = Correction

DAVIS BESSE

APPENDIX C-3

AREA OPTIMIZATION

BREAKER COORDINATION EVALUATION SUMMARY

	POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES
					RATING	TYPE	DRAWING	RATING	TYPE	DRAWING		
A	F12A	2PBF1212A	DBC2N	BATTERY CHARGER DBC2N	600	AK-25/SST	E4/2	225	HKA 225	E6/2	YES	1
	F12A	2PBF1213A	WLB11	Power Circuit (WLB11)	250	LA 250	E6/2 (BF1217)	70	HFB 3070	E6/2	YES	5
	F12A	2PBF1214A	WLB12	Power Circuit (WLB12)	250	LA 250	E6/2 (BF1217)	70	HFB 3070	E6/2	YES	5
	F12A	2PBF1215A	WLB13	Power Circuit (WLB13)	250	LA 250	E6/2 (BF1217)	70	HFB 3070	E6/2	YES	5
A	F12A	2PBF1217A	WLB11,2,3	PWR CKT PZR HTR	600	AK-25/SST	E4/2	250	LA 250	E6/2, CASCADED	YES	5,25
	F12A	2PBF1218A	MC5018	EMER VNT FAN DISCH DMPR 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12A	2PBF1220A	YRF2	480VAC/125VDC RECTIFIER	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	6
	F12A	2PBF1221A	YRF4	480VAC/125VDC RECTIFIER	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	6
A	F12A	2PBF1223A	SW1367	CAC 2 IN ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F12A	2PBF1224A	SW1368	CAC 3 IN ISO VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1225A	MC5057	CROSS TIE DUCT WORK DMPR	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12A	2PBF1226A	MV5025	FUEL HAND AREA BYPASS VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F12A	2PBF1227A	CC1409	LTOWN CLR 1 CC WTR IN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F12A	2PBF1228A	CC1410	LTOWN CLR 2 CC WTR IN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1229A	MS0612	CTRM STANDBY COND 2 FAN	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	6
A	F12A	2PBF1230A	P195-2	EDG FUEL OIL TRANSFER PUM	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1231A	P198-1	HPI PMP 2 AC LO PMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1237A	MU01A	LETDOWN CLR 1 IN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1238A	MU01B	LETDOWN CLR 2 IN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1239A	HV5314A	LV SWGR RM 42B DAMPER	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12A	2PBF1285J	RC200	PZR SMPL CTMT VNT HDR VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12B	2PBF1255A	C25-3	EDG RM 2 VENT FAN 3	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	1
	F12B	2PBF1256A	C25-4	EDG RM 2 VENT FAN 4	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	1
	F12B	2PBF1258A	C3622	EMER DG 2 IMMERSION HTR	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	6
A	F12B	2PBF1259A	C78-2	BATT RM VENT FAN 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12B	2PBF1260A	MVRC02	PRZR 1 SPRAY LINE VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12B	2PBF1261A	MP1472	EMER DG 2 SOAK PUMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F12B	2PBF1262A	AF3872	AFWP 2 DISCH TO SG2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
A	F12B	2PBF1270A	YF1	FEEDER TO 120V AC MCC	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12B	2PBF1275A	MP0082	DO XFER PUMP 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12B	2PBF1263A	MC0112	EMER DG AIR COMP 2	600	AK-25/SST	E4/2	30	HFB 3030	E6/2	YES	6
	F12B	2PBF1267A	MP1592	FUEL OIL BOOSTER PUMP 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12B	2PBF1268A	MP173B	DO STRG TK AREA SUMP PMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12B	2PBF1269A	WE1092	DO PMP HSE ELEC UNIT HTR	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12B	2PBF1289A	MP1474	EDG 2 AC LUBE OIL PUMP	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12C	2PBF1274A	MF0152	SW PUMP STRNR 2	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
A	F12C	2PBF1275A	SW1380	SWP 2 STRN DRN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	6
	F12C	2PBF1277A	SW1395	TPCW HX IN HEADER 1SD VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12C	2PBF1278A	F120	FDR BKR TO MCC F120	600	AK-25/SST	E4/2	150	HFB 3150	E6/2	YES	1
	F12C	2PBF1280A	EF12C	480VAC MCC	600	AK-25/SST	E4/2	90	HFB 3090	E6/2	YES	6
	F12C	2PBF1281A	SW2930	SW TO INT FOREBAY VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12C	2PBF1282A	SW2932	SW TO COLLECT BASIN VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/2	YES	1
	F12D	2PBF1211A	C99-3	SW PMP RM EXH FAN 3	150	HFB 3150	E6/2	30	HFB 3030	E6/5	NO	1,21
	F12D	2PBF1236A	C99-4	SW PMP RM EXH FAN 4	150	HFB 3150	E6/2	30	HFB 3030	E6/5	NO	1,21
	F15	2PBF105A	C1-5	CACS FAN 3 LRGST LOAD	480	AK-25/SST	E4/2	N/A	NONE	E6/1	YES	1
	F16A	2PBF1616F	MU6420	MU32 BYPASS VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/5	YES	1

SYMBOLS: ACC = ACCEPTABLE (A) = ASSUMED TYPE

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 Blank = Same as CAR Rev.5
 C = Correction

DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION
 BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	F16A	2PBF1617D	MU3971	RC MU PUMP SUCT VLV	600	AK-25/SST	E4/2	15	HFB 3015	E6/5	YES	1
	F16A	2PBF1620A	F16B	480VAC MCC	600	AK-25/SST	E4/2	250	LB 250	E6/5	YES	6
	F16A	2PBF1622A	RE459BBA	STA VENT EFF RAD MON	600	AK-25/SST	E4/2	15	HFB 3015	E6/5	YES	6
	F16A	2PBF1623A	RE459BBB	STA VENT EFF RAD MON	600	AK-25/SST	E4/2	15	HFB 3015	E6/5	YES	6
	F16A	2PBF1624A	XY2	FEEDER CVIXY2 (86-0272)	600	AK-25/SST	E4/2	40	HFB 3040	E6/5, DCN 81	YES	1
	F16A	2PBF1625A	XY4	FEEDER CVIXY4 (86-0272)	600	AK-25/SST	E4/2	40	HFB 3040	E6/5, DCN 83	YES	1
	F16B	2PBF1609A	RE4597BA	CTMT RAD MON	250	LB 250	E6/5	15	HFB 3015	E6/5	NO	6,21
	F16B	2PBF1610A	RE4597EB	CTMT RAD MON	250	LB 250	E6/5	15	HFB 3015	E6/5	NO	6,21
	F7	BPBF703A	MC1390	INST AIR COMP	1760	K-1600S	E4/3	600	K-600S	E4/3	YES	6,27
	F7	BPBF707A	F71	480V AC MCC	1760	K-1600S	E4/3	600	K-600S	E4/3,86-425-8A	YES	1,27
	F71	BPBF7103A	MV6397	MDFP ISO VALVE (MAN)	600	AK-25/SST	E4/3	15	HFB 3015	E5/2	YES	6
	F71	BPBF7104A	MV6398	MDFP ISO VALVE (MAN)	600	AK-25/SST	E4/3	15	HFB 3015	E5/2	YES	6
	F71	BPBF7105A	C3410	EIAC CLOSED COOLING LOOP	600	AK-25/SST	E4/3	40	HFB 3040	E5/2	YES	6
A	F71	BPBF7114A	P242-1	MDFP AUX LUBE OIL PUMP	600	AK-25/SST	E4/3	15	HFB 3015	E5/2	YES	6
	F71	BPBF7115A	MP2562	STA AIR CMPSR 2 LO PUMP	600	AK-25/SST	E4/3	15	HFB 3015	E5/2	YES	6
A	F71	BPBF7117A	Y3401	DIST PANEL Y3401	600	AK-25/SST	E4/3	50	HFB 3050	E5/2, 87-1193	NO	6,22
	F71	BPBF7118A	S405B	ROOM AIR COND ROOM 334B	600	AK-25/SST	E4/3	25	HFB 3025	E5/2, 87-1193	YES	6
	RC3702	(2CY214A)	VARIOUS	EDG SEQ, N/L SG SET	5	A25X5(A)	E641A/2A	3	A6Y3-1(A)	E51B, E33-35	ACC	7,16
	RC3704	(1CY117A)	VARIOUS	CCWS SUGR TK LR3757	5	A25X5	E641A/1A	3	A60X3(A)	E544B/5, E33-45	ACC	7,16
	RC3706	(1CY117B)	VARIOUS	LARGEST LOAD	5	A25X5	E641A/1A	SPARE	A60X3(A)	E739, E33-60	ACC	7,16
	RC4604	(1CD1P20B)	VARIOUS	VAR, LARGEST LOAD (D1P)	30	A2Y30-1	E640A/1A	3	A6Y3-1	E771, E33-69	YES	7
	RC4605	(2CD2P20C)	VARIOUS	LARGEST LOAD	30	A2Y30-1	E641A/2A	3	A6Y3-1	E772, E33-70, E60B/39A	YES	7
	RC4606	(2PD2P12A)	VARIOUS	VAR, LARGEST LOAD (D2P)	30	A2Y30-1	E640A/2A	3	A6Y3-1	E914, E330-3 TO -6	YES	1
	RC4607	2CV4632E	V4632	SAMPLE VALVE(SINGLE LOAD)	3	A2Y3-1(A)	E56B/47B	3	A2Y3-1(A)	E56B/47B	ACC	5,23
	RC4801	(1PD1P12A)	VARIOUS	VAR, LARGEST LOAD USED	30	A2Y30-1	E640A/1A	3	A6Y3-1	E913, E330-14, -15	YES	1
	Y1	1CY103A	C5762B	PROCESS & RAD MON CABINET	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	2,26
A	Y1	1CY104A	E670B	CTRM EMERGENCY HVAC CONTR	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	1,26
A	Y1	1CY104B	E6714	CTRM EMERGENCY HVAC CONTR	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	1,26
	Y1	1CY106A	C5762E	RFS-1 CABINET NI-NI2	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	1,9,26
A	Y1	1CY107A	C5762D	SFAS CH.1 LOGIC PANEL	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	1,9,26
	Y1	1CY108A	C5630	CONT POWER TO AUX SD PANE	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	1,26
	Y1	1CY108B	C5628	CONT POWER ESS METER HPI	40	HFB 3040	E6/5	15	A25X15	E641A/1A, E200B	YES	1,26
	Y1	1CY110A	D1	METER RELAY AT D1	40	HFB 3040	E6/5	10	A25X10	E641A/1A	YES	2,26
	Y1	1CY110B	RC4604	NON SSD RELAYS	40	HFB 3040	E7	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY111A	ASH5358A	CL2 MONITOR ASH5358A	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	6,26
	Y1	1CY111B	ASH4863A	CL2 MONITOR ASH4863A	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	6,26
	Y1	1CY111C	CFPP190	F/P PANEL CFPP190	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	6,26
	Y1	1CY112A	C5716	CTRM IND LTS HPI FLOW	40	HFB 3040	E6/5	10	A25X10	E641A/1A, 87-1148	YES	1,26
	Y1	1CY112B	C5763B	POST ACCIDENT MOD	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	7,26
	Y1	1CY112C	C5708	CTRM IND LIGHTS	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	7,26
	Y1	1CY113A	CFP030	BWST INSD HEAT TRACING	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	6,26
	Y1	1CY114A	RC3701	RELAY CABINET RC3701	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	5,26
	Y1	1CY114B	CFPP170	F/P PANEL	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	6,26
A	Y1	1CY115A	C5761A	SFAS CH.1 LOGIC PANEL	40	HFB 3040	E6/5	30	A25X30	E641A/1A	YES	1,9,26
	Y1	1CY116A	C5717	CONT POWER SV IND LIGHTS	40	HFB 3040	E6/5	5	A25X5	E641A/1A	YES	5,26
	Y1	1CY117A	RC3704	NON SSD RELAYS	40	HFB 3040	E6/5	5	A25X5	E641A/1A	YES	7,26

SYMBOLS: ACC - ACCEPTABLE (A) - ASSUMED TYPE

A - Added to FADR
 Blank = Same as CAR Rev. 5
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APPENDIX C-3											AREA OPTIMIZATION
DAVIS BESSE											
BREAKER COORDINATION EVALUATION SUMMARY											
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING		
	Y1	1CY117B	RC3706	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	7,26
	Y1	1CY117C	CDE-11B-1	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	7,26
	Y1	1CY117D	CDE-11B-2	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	1,26
	Y1	1CY118A	PDY5000B	40	HFB 3040	E6/5	30	A25X30	E641A/1A	YES	2,26
	Y1	1CY118B	PDY5000C	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY118C	TY5443	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY118D	C5784A	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY119A	C3801	40	HFB 3040	E6/5	10	A25X10	E641A/1A	YES	6,26
	Y1	1CY120A	RC3607	40	HFB 3040	E6/5	5	A25X5	E641A/1A	YES	2,26
	Y1	1CY120B	RC3601	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY120C	RC3605	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY120D	YL1	40	HFB 3040	E6/5	NA	NONE	E641A/1A, E200B	YES	2,26
	Y1	1CY121A	C5762A	40	HFB 3040	E6/5	5	A60X5(A)	E641A/1B	YES	1,9
	Y1	1CY122A	CFFP100	40	HFB 3040	E6/5	15	A25X15	E641A/1B	YES	6,26
	Y1	1PY105A	C3615	40	HFB 3040	E6/5	15	A25X15	E641A/1A	YES	1,26
	Y1	ACY1VMA	E16277	40	HFB 3040	E6/5	2	A25X2	E641A/1A	YES	6,26
	Y1A	1CY103AA	L11461B	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1CY104AA	C3645	40	HFB 3040	E6/5	20	A25X20	E90BA	YES	1,26
	Y1A	1CY107AA	C5799	40	HFB 3040	E6/5	15	A25X15	E90BA	YES	1,26
	Y1A	1CY108AA	NYS874B	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	1,26
	Y1A	1CY108AB	C480B	40	HFB 3040	E6/5	NA	NONE	E90BA	YES	5,26
	Y1A	1CY109AA	C5799	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1CY115AA	C5763B	40	HFB 3040	E6/5	20	A25X20	E90BA	YES	1,9,26
	Y1A	1CY1A105A	C5763A	40	HFB 3040	E6/5	20	A25X20	E90BA	YES	2,26
	Y1A	1PY111AA	C5762G	40	HFB 3040	E6/5	20	A25X20	E90BA, E1032	YES	2,26
	Y1A	1PY112AA	C5603	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY113AA	RC4801	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY114AA	RE4597AA	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY116AA	RT4597AA	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY117AA	RE4598AA	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY117AA	RE4598AA	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY118AA	RT4598AA	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2
	Y1A	1PY119AA	RE4597AB	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY120AA	RT4597AB	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY121AA	RE4598AB	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	1PY122AA	RT4598AB	40	HFB 3040	E6/5	10	A25X10	E90BA	YES	2,26
	Y1A	ACY1AVMA	E16277	40	HFB 3040	E6/5	2	A25X2	E90BA	YES	2,26
	Y2	2CY203A	C5755B	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,2,26
	Y2	2CY204A	C6715	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,2,26
	Y2	2CY204B	C6709	40	HFB 3040	E6/5	NA	NONE	E641/2A, E200B(J)	YES	1,9,26
	Y2	2CY206A	C5755E	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,9,26
	Y2	2CY207A	C5755D	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,3,26
	Y2	2CY208A	C3630	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,26
	Y2	2CY208B	C3629	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	1,26
	Y2	2CY210A	02	40	HFB 3040	E6/5	2	A25X2	E641/2A	YES	6,26
	Y2	2CY211A	C5716	40	HFB 3040	E6/5	10	A25X10	E641/2A, 87-114B	YES	1,26
	Y2	2CY211B	C5705	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	7,26

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DAVIS BESSE		APPENDIX C-3							AREA OPTIMIZATION			
BREAKER COORDINATION EVALUATION SUMMARY												
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	Y2	2CY211C	C5709	CTRM IND LIGHTS	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	7,26
	Y2	2CY212A	C5717	CONT POWER SV IND LIGHTS	40	HFB 3040	E6/5	3	A25X3	E641/2A	YES	5,26
	Y2	2CY212B	C5755A	IND LIGHTS	40	HFB 3040	E6/5	NA	NONE	E641/2A, E200B(J)	YES	7,26
	Y2	2CY213A	ASH5358B	CL2 MONITOR ASH5358B	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	6,26
	Y2	2CY213B	ASH4863B	CL2 MONITOR ASH4863B	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	6,26
	Y2	2CY213C	CFPP200	F/P PANEL CFPP200	40	HFB 3040	E6/5	NA	NONE	E641/2A, E200B(J)	YES	6,26
	Y2	2CY214A	RC3702	SG LEVEL SET, LGST	40	HFB 3040	E6/5	5	A25X5	E641/2A	YES	6,26
	Y2	2CY214B	RC4605	NON SSD RELAYS	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	6,26
	Y2	2CY214C	CDF-11A-1	CONTROL DISCONNECT TRANSF	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	6,26
	Y2	2CY214D	CDF-11A-1	CONTROL DISCONNECT TRANS	40	HFB 3040	E6/5	N/A	NONE	E641/2A, E200B(J)	YES	5,26
	Y2	2CY215B	C5792A	SFRCS CH.2 LOGIC PANEL	40	HFB 3040	H6/5	30	A25X30	E641/2A	YES	1,9,26
	Y2	2CY216A	RC3705	RELAY CABINET	40	HFB 3040	E6/6	5	A25X5	E641/2A	YES	5,26
	Y2	2CY216B	RC3703	NON SSD RELAYS	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	6,26
	Y2	2CY216C	WF60	H2 DILUT FLT HTR	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	9,26
	Y2	2CY217A	PDY5014B	FPDY5014B	40	HFB 3040	E6/5	30	A25X30	E641/2A	YES	2,26
	Y2	2CY217B	PDY5014C	FPDY5014C	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	2,26
	Y2	2CY217C	FTY5444	FTY5444	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	2,26
	Y2	2CY217D	C5784B	ARTS CABINET C5784B	40	HFB 3040	E6/5	NA	NONE	E641/2A, E200B(J)	YES	2,26
	Y2	2CY218A	C3801	CTMT HYDROGEN SYS PANEL	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	2,26
	Y2	2CY218B	CFPP180	F/P PANEL CFPP180	40	HFB 3040	E6/5	NA	NONE	E641/2A, E200B(J)	YES	2,26
	Y2	2CY219A	RC3608	RELAY CABINET RC3608	40	HFB 3040	E6/5	5	A25X5	E641/2A	YES	2,26
	Y2	2CY219B	RC3602	RELAY CABINET RC3602	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	2,26
	Y2	2CY219C	RC3606	RELAY CABINET RC3606	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	2,26
	Y2	2CY219D	YL2	YL2	40	HFB 3040	E6/5	NA	NONE	E641/2A	YES	2,26
	Y2	2CY220A	CFP040	BWST INSTR HEAT TRACING	40	HFB 3040	E5/6	15	A25X15	E641/2A	YES	6,26
	Y2	2CY221B	C5792	SFRCS RELAY CH 2	40	HFB 3040	E6/5	5	A60X5(A)	E641/2B	YES	1,9,26
	Y2	2CY222A	CFPP110	CL2 ANALYZER HEAT TRACE	40	HFB 3040	E6/5	15	A25X15	E641/2B	YES	6,26
	Y2	2PY205A	C3616	EDG1-2 PANEL LIGHTS	40	HFB 3040	E6/5	15	A25X15	E641/2A	YES	1,26
	Y2	BCY2VMA	E16282	REMOTE VOLTMETER AT C5715	40	HFB 3040	E6/5	2	A25X2	E641/2A	YES	6,26
	Y2A	2CY203AA	L114617	CTMT SUMP LEVEL	40	HFB 3040	E6/5	10	A25X10	E909A	YES	5,26
	Y2A	2CY204AA	C4625	CONT PWR AUX FW CONT PNL	40	HFB 3040	E6/5	20	A25X20	E909A	YES	1,16
	Y2A	2CY207AA	C5798	POST ACCIDENT MONITORING	40	HFB 3040	E6/5	15	A25X15	E909A	YES	1,26
	Y2A	2CY208AA	NY5875B	NEUTRON FLUX MON	40	HFB 3040	E6/5	19	A25X10	E-909A	YES	1,26
	Y2A	2CY208AB	C4602	NEUTRON FLUX MON	40	HFB 3040	E6/5	N/A	NONE	E909A, E200B	YES	1,26
	Y2A	2CY209AA	C5798	POST ACCIDENT MONITORING	40	HFB 3040	E6/5	10	A25X10	E909A	YES	5,26
	Y2A	2CY215AA	C5755A	POST ACCIDENT MON	40	HFB 3040	E6/5	20	A2Y20-1	E909A	YES	6,26
	Y2A	2CY2A205A	C5755G	POST ACCIDENT MONITORING	40	HFB 3040	E6/5	20	A25X20	E909A	YES	1,9,26
	Y2A	2PY211AA	C5755H	SAFETY GRADE INSTR CAB	40	HFB 3040	E6/5	20	A25X20	E909A	YES	6,26
	Y2A	2PY212AA	C5603A	VENT STACK RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY213AA	RC4606	RELAY CABINET RC4606	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY214AA	RE4597BA	CTMT RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY216AA	RT4597BA	CTMT RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY217AA	RE4598BA	STA EFF RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY218AA	RT4598BA	STA EFF RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY219AA	RE4597BB	CTMT RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY220AA	RT4597BB	CTMT RAD MON	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26

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DAVIS BESSE		APPENDIX C-3					AREA OPTIMIZATION				
BREAKER COORDINATION EVALUATION SUMMARY											
POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING		
A	Y2A	2PY221AA	RE4598BB	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y2A	2PY222AA	RT4598BB	40	HFB 3040	E6/5	10	A25X10	E909A	YES	6,26
	Y3	3CY307A	C5763D	40	HFB 3040	E6/5	15	A25X15	E641/3A	YES	1,26
	Y3	3CY308A	C5763F	40	HFB 3040	E6/5	15	A25X15	E641/3A	YES	6,26
	Y3	3CY309A	RC3603	40	HFB 3040	E6/5	5	A25X5	E641/3A	YES	5,26
	Y3	3CY310A	CFP050	40	HFB 3040	E6/5	15	A25X15	E641/3A	YES	6,26
	Y3	3CY312A	C5784C	40	HFB 3040	E6/5	30	A25X30	E641/3A	YES	6,26
	Y3	3CY313A	C5760A	40	HFB 3040	E6/5	15	A25X15	E641/3A	YES	2,26
A	Y3	3PY305A	C3615	40	HFB 3040	E6/5	15	A25X15	E641/3A	YES	5,26
	Y3	ACY3VMA	E16281	40	HFB 3040	E6/5	2	A25X2	E641/3A	ES	6,26
A	Y4	2CY419A	C5705	40	HFB 3040	E6/5	3	A25X3	E641A/4A, DCN 1362	YES	1,9,26
A	Y4	4CY407A	C5756D	40	HFB 3040	E6/5	15	A25X15	E641A/4A	YES	1,26
	Y4	4CY408A	C5756F	40	HFB 3040	E6/5	15	A25X15	E641A/4A	YES	6,26
	Y4	4CY409A	C5764A	40	HFB 3040	E6/5	3	A25X3	E641A/4A	YES	6,26
	Y4	4CY410A	RC3604	40	HFB 3040	E6/5	5	A25X5	E641A/4A	YES	6,26
	Y4	4CY411A	CFP060	40	HFB 3040	E6/5	15	A25X15	E641A/4A	YES	6,26
	Y4	4CY412A	C5784D	40	HFB 3040	E6/5	30	A25X30	E641A/4A	YES	6,26
	Y4	4CY414A	C5756G	40	HFB 3040	E6/5	15	A25X15	E641A/4A	YES	2,26
	Y4	4PY405A	C3616	40	HFB 3040	E6/5	15	A25X15	E641A/4A	YES	5,26
	Y4	BCY4VMA	E16278	40	HFB 3040	E6/5	2	A25X2	E641A/4A	YES	6,26
	YAU	ACYAU13A	C5754K	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU14B	J15708	300	A2Y300-1(A)	E7	NA	NONE	E643/1, E200B(J)	YES	6
	YAU	ACYAU14C	J15707	300	A2Y300-1(A)	E7	NA	NONE	E643/1, E200B(J)	YES	6
	YAU	ACYAU20A	C4603	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU21A	C4801Y	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU22A	C1702	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6
	YAU	ACYAU23A	C4801H	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU24A	C4101	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU25A	C5761B	500	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6
C	YAU	ACYAU27B	C5757D	300	A2Y300-1(A)	E7	10	A2Y10-1	E643/1, E200B(J)	YES	6
	YAU	ACYAU28A	C5764D	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU29A	R3004	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU29B	R3002	300	A2Y300-1(A)	E7	NA	NONE	E643/1	YES	6
	YAU	ACYAU29C	R3003	300	A2Y300-1(A)	E7	NA	NONE	E643/1	YES	6
	YAU	ACYAU29E	NA116859	300	A2Y300-1(A)	E7	NA	NONE	E643/1	YES	6
A	YAU	ACYAU29F	R2022	300	A2Y300-1(A)	E7	N/A	NONE	E643/1, E200B(J)	YES	6
	YAU	ACYAU30A	C5765E	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6
	YAU	ACYAU31A	C3403	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU32A	C5715	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6
	YAU	ACYAU33A	C6710-12	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6
	YAU	ACYAU34A	C3002	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6
	YAU	ACYAU35A	RC3717	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6
	YAU	ACYAU35B	RC3715	300	A2Y300-1(A)	E7	N/A	NONE	E643/2	YES	5
	YAU	ACYAU35C	RC1760	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6
	YAU	ACYAU36A	RC3005	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6
	YAU	ACYAU36B	RC3003	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6

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DAVIS BESSE APPENDIX C-3 AREA OPTIMIZATION
BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
YAU	ACYAU36C	RC3001	RELAY CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU37A	RC4311	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU38A	C3610	SUPPLEMENTARY PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU39A	C5722	MAIN CTRL PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU40A	RC2404	RELAY CABINET	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/2	YES	6	
YAU	ACYAU40B	R2204	LOCAL ANNUNCIATOR	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU41A	RC2825	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU41B	R1801	RACK	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42A	J14722	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU42C	J15785	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42D	PDS8627A	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42E	C5401	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42F	C5402	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42G	C5403	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42H	C5215	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42K	J14801	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42L	J14908	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42N	J14909	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42N	C5785B	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU42P	C4709	FIRE PROTECTION SYSTEM	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU43A	C5718	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU44A	C5721	FEEDWATER PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU45A	VARIOUS	RECEPTACLE	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2, DCNs 28, 51, 58	YES	6	
YAU	ACYAU46A	C5765F	PROCESS & RADIATION MON	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU46B	C5781	PROCESS & RADIATION MON	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU47A	C5719	ERT	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2, DCN 41	YES	6	
YAU	ACYAU48A	C5770	COMP UNIT A, CPU, PRINTER	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/2, DCN 55	YES	6	
YAU	ACYAU49A	C5708	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU49B	C5706	MAIN CONTROL BOARD	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU50A	C5772C	COMPUTER MAIN FRAME	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU50B	C5772F	COMPUTER MAIN FRAME	300	A2Y300-1(A)	E7	NA	NONE	E643/2	YES	6	
YAU	ACYAU52A	C5751C	LTOP 2 FANS	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/2	YES	6	
YAU	ACYAU53A	C5720	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/2	YES	6	
YAU	APYAU02A	Y4501	FUSE PANEL Y4501	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/1	YES	6	
YAU	APYAU04A	C5765A	PROCESS & RADIATION MON	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/1	YES	6	
YAU	APYAU05A	Y3601	FUSE PANEL Y3601	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/1	YES	6	
A	YAU	APYAU07A	YATS4601	C4601C/5755C	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/1, DCN 52	YES	6
YAU	APYAU08A	C5754F	STATION ANNUNCIATOR	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6	
YAU	APYAU09A	C5758A	BUFFER CABINET	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6	
YAU	APTUA11A	U500	MAIN COMMUNICATION BOX	300	A2Y300-1(A)	E7	60	A2Y60-1	E643/1	YES	6	
YAU	APYAU12A	C5758C	MISC ELECTRONIC CTRL CAB	300	A2Y300-1(A)	E7	60	A2Y60-1	E643/1	YES	6	
YAU	APYAU15A	C5758B	DIAGNOSTIC CABINET	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6	
YAU	APYAU16A	C5772E	COMPUTER MAINFRAME	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	6	
YAU	APYAU17A	C5772B	COMPUTER MAINFRAME	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/1	YES	6	
YAU	APYAU18A	C5772A	COMPUTER MAINFRAME	300	A2Y300-1(A)	E7	60	A2Y60-1	E643/1	YES	6	
A	YAU	APYAU19A	INST POWER NRI-X BUS(ALT)	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	1,9	

SYMBOLS: ACC = ACCEPTABLE (A) = ASSUMED TYPE

A = Added to FADR
 Blank = Same as CAR Rev. 5
 C = Correction

BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	FEEDER			LOAD			COORDINATED	NOTES	
				RATING	TYPE	DRAWING	RATING	TYPE	DRAWING			
A	YAU	APYAU26A	C5760B	COM1 POWER UNIT	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/1	YES	1,9
	YBU	BCYBU19A	C1702	PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU20A	C4301	GEN VOLT REG CAB	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU21A	C3303	GEN COOL SYS CAB	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU23A	C5715	DC & INSTR BKR STATUS IND	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU23B	C5718	DC & INSTR BKR STATUS IND	300	A2Y300-1(A)	E7	N/A	NONE	E643/3	YES	6
	YBU	BCYBU24A	C4801Y	CRD MCS API & LOGIC 1	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU25A	C4801K	CRD MCS TRANSFER	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU27A	C4606	CRD MCS TRIP CONFIRM 1	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU28A	C5706	CRD MCS GROUP METERS	300	A2Y300-1(A)	E7	10	A2Y10-1	E643/3	YES	5
	YBU	BCYBU29A	C5777	COMP STA, VIDEO & PRINT B	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU30A	C5301	CROSS WATT HR METER CAB	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU31A	C5720	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/3, DCN 29	YES	6
	YBU	BCYBU31B	C5719	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	NA	NONE	E643/3, DCN 29	YES	6
	YBU	BCYBU32A	C5770	COMP DISC UNIT B, CPU B	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/3	YES	6
	YBU	BCYBU33A	C5757C	TURBINE INSTR CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1(A)	E643/4	YES	6
	YBU	BCYBU34A	C5752	COMPUTER LAIP	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU35A	C5757D	MFPT CTRL CAB	300	A2Y300-1(A)	E7	10	A2Y10-1	E643/4	YES	6
	YBU	BCYBU36A	C3404	STATION AIR COMPRESSOR 2	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU37A	RC4410	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU37B	RC4401	RELAY CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU37C	RC2304	RELAY CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU37D	FL13709	FLOW INDICATOR	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU38A	C5754H	LOAD FREQ CTRL	300	A2Y300-1(A)	E7	20	A2Y20-1(A)	E643/4	YES	6
	YBU	BCYBU39A	C5723	DIGITAL FREQ IND	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU41A	RC1761	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU42A	RC3006	RELAY CABINET	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/4	YES	6
	YBU	BCYBU42B	RC3004	RELAY CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU42C	RC3002	RELAY CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU43A	RC3718	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU43B	RC3716	RCP CLG RET AUX RLY	300	A2Y300-1(A)	E7	N/A	NONE	E643/4	YES	6
	YBU	BCYBU44A	C3611	SUPPLEMENTARY PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU45A	C5722	MAIN CTRL PANEL	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/4	YES	6
	YBU	BCYBU47A	RC2826	RELAY CABINET	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU48A	C5764B	VIBRATION ACOUSTIC MON	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/4	YES	6
	YBU	BCYBU48B	C5786	CABINET	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BCYBU49A	C5721	FEEDWATER PANEL	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU50A	C5761B	1CS X BUS	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/4	YES	6
	YBU	BCYBU52A	C5754F	STATION ANNUNCIATOR	300	A2Y300-1(A)	E7	30	A2Y30-1	E643/4	YES	6
	YBU	BCYBU52B	J15712	COMM DATA TRANSMISSION	300	A2Y300-1(A)	E7	NA	NONE	E643/4, E200B(J)	YES	6
	YBU	BCYBU52C	J15713	COMM DATA TRANSMISSION	300	A2Y300-1(A)	E7	NA	NONE	E643/4, E200B(J)	YES	6
	YBU	BCYBU53A	C5708	MAIN CTRL BOARD	300	A2Y300-1(A)	E7	20	A2Y20-1	E643/4	YES	6
	YBU	BCYBU53B	C5706	MAIN CONTROL BOARD	300	A2Y300-1(A)	E7	NA	NONE	E643/4	YES	6
	YBU	BPYBU02A	C5765C	PROCESS & RADIATION MON	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/3	YES	6
	YBU	BPYBU03A	Y4502	FUSE PANEL Y4502	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/3	YES	6
A	YBU	BPYBU04A	YATS4601	ALTERNATE FEED	300	A2Y300-1(A)	E7	100	A2Y100-3(A)	E643/3, DCN 54, 1377	YES	6

SYMBOLS: ALE = ACCEPTABLE (A) = ASSUMED TYPE

A = Added to FAOR
 Blank = Same as CAR Rev. 5
 C = Correction

APPENDIX C-3
 BREAKER COORDINATION EVALUATION SUMMARY

POWER SUPPLY	CIRCUIT	COMPONENT	DESCRIPTION	RATING	FEEDER		DRAWING	RATING	LOAD TYPE	LOAD	DRAWING	COORDINATED	NOTES
					TYPE	TYPE							
A	BPYB005A	Y3602	PANEL Y3602	300	A2Y300-11A	E7	E643/3	100	A2Y100-3(A)	E643/3		YES	6
	BPYB005A	CS757B	ERC SYS12P	300	A2Y300-11A	E7	E643/3	30	A2Y30-1	E643/3		YES	6
	BPYB005A	CS758F	MISC. ELECT. CONTROL CIRCUIT	300	A2Y300-11A	E7	E643/3	60	A2Y60-1	E643/3		YES	6
	BPYB012A	US64P	MAIN COMMUNICATION BOX	300	A2Y300-11A	E7	E643/3	60	A2Y60-1	E643/3		YES	6
	BPYB013A	CS772G	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	60	A2Y60-1	E643/3		YES	6
	BPYB014A	CS772G	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	20	A2Y20-1	E643/3, DCM 29		YES	6
	BPYB017A	CS772D	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	60	A2Y60-1	E643/3		YES	6
	BPYB018A	CS751	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	60	A2Y60-1	E643/3		YES	6
	BPYB022A	CS751	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	30	A2Y30-1	E643/3		YES	1, 9
	BPYB051A	CS759C	COMPUTER MAINFRAME	300	A2Y300-11A	E7	E643/3	30	A2Y30-1	E643/3		YES	1, 9
	BPYB101A	W5329A	INSTR. POWER TO UNIT (ALTA)	15	HFB 3015	E6/1	E6/1	15	HFB 3015	E9		YES	1, 24
	BPYB102A	W5329B	EDG RM 1 DAMPER	15	HFB 3015	E6/1	E6/1	15	HFB 3015	E9		YES	1, 24
	BPYB103A	W5329C	EDG RM 1 DAMPER	15	HFB 3015	E6/1	E6/1	15	HFB 3015	E9		YES	1, 24
	BPYB104A	W5305	LV SMGR RM FAN 1 DAMPER	15	HFB 3015	E6/1	E6/1	15	HFB 3015	E9		YES	1, 24
	BPYB201A	W5011A	SFRCS CH. 1 LOGIC PANEL	50	HFB 3050	E6/1	E6/1	15	HFB 3015	E9		NO	6, 24
BPYB202A	W5011B	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/1	E6/1	15	HFB 3015	E9		NO	6, 24	
BPYB203A	W5011C	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/1	E6/1	15	HFB 3015	E9		NO	6, 24	
BPYB204A	W5011D	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/1	E6/1	15	HFB 3015	E9		NO	6, 24	
BPYB205A	W5011E	CTMT AIR SMPL RET 150 VLV	50	HFB 3050	E6/1	E6/1	15	HFB 3015	E9		NO	6, 24	
BPYB206A	W5000A	EMER VNT SYS MDO DMFR 1	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB207A	W5000B	EMER VNT SYS MDO DMFR 2	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB208A	W5443A	CCUP RM FAN 1 IN DMFR	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB209A	W5443B	CCUP RM FAN 1 BYPASS DMFR	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB210A	W5443C	CCUP RM OR LOUVER 1	50	HFB 3015	E9	E6/1	15	HFB 3015	E9		NO	6, 24	
BPYB211A	W5336A	EDG RM 2 DAMPER	15	HFB 3015	E6/2	E6/2	15	HFB 3015	E9		YES	1, 24	
BPYB212A	W5336B	EDG RM 2 DAMPER	15	HFB 3015	E6/2	E6/2	15	HFB 3015	E9		YES	1, 24	
BPYB213A	W5336C	EDG RM 2 DAMPER	15	HFB 3015	E6/2	E6/2	15	HFB 3015	E9		YES	1, 24	
BPYB214A	W5314	LV SMGR RM FAN 2 DAMPER	15	HFB 3015	E6/2	E6/2	15	HFB 3015	E9		NO	1, 9, 24	
BPYB215A	CS772A	SFRCS CH. 2 LOGIC PANEL	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB216A	W5562B	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	6, 24	
BPYB217A	W5010B	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	6, 24	
BPYB218A	W5010C	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	6, 24	
BPYB219A	W5010D	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	6, 24	
BPYB220A	W5010E	CTMT AIR SMPL 150 VLV	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	6, 24	
BPYB200A	W5014A	EMER VNT SYS MDO DMFR 3	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB201A	W5014B	EMER VNT SYS MDO DMFR 4	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB202A	W5444A	CCUP RM FAN 2 BYPASS DMFR	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB210A	W5444B	CCUP RM FAN 2 IN DMFR	15	HFB 3015	E9	E9	15	HFB 3015	E9		NO	6, 24	
BPYB212A	W5444C	CCUP RM OR LOUVER 2	50	HFB 3050	E6/2	E6/2	15	HFB 3015	E9		NO	5, 24	

SYMBOLS: ALL ACCEPTABLE (A) = ASSUMED TYPE
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