



<b>DOCKET</b>	
<b>08-AFC-6</b>	
DATE	April 14 2009
RECD.	April 14 2009

April 14, 2009

Dockets Unit  
California Energy Commission  
1516 Ninth Street, MS 4  
Sacramento, CA 95814

RE: Willow Pass Generating Station  
Application for Certification 08-AFC-06

On behalf of Mirant Willow Pass, LLC, the applicant for the above-referenced Willow Pass Generating Station AFC, we are pleased to submit the enclosed document:

- One print copy of Appendix 10A (Switching Files) for the Updated System Impact Study for the Willow Pass Generating Station. The Updated System Impact Study was previously submitted to the CEC on February 12, 2009.

Please include this document in the AFC record.

URS Corporation

Kathy Rushmore  
Project Manager

Enclosures

CC: Felicia Miller



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
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**APPLICATION FOR CERTIFICATION  
FOR THE WILLOW PASS  
GENERATING STATION**

**Docket No. 08-AFC-6**

**PROOF OF SERVICE  
(Revised 4/14/2009)**

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**DECLARATION OF SERVICE**

I, Kathy Rushmore, declare that on April 14, 2009, I served and filed copies of the attached Updated System Impact Study: Appendix 10A (Switching Files). The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [<http://www.energy.ca.gov/sitingcases/willowpass/index.html>]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

**(Check all that Apply)**

**For service to all other parties:**

**X** sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

**AND**

**For filing with the Energy Commission:**

**X** sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

**OR**

depositing in the mail an original and 12 paper copies, as follows:

**CALIFORNIA ENERGY COMMISSION**  
Attn: Docket No. 08-AFC-6  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512  
[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

I declare under penalty of perjury that the foregoing is true and correct.

  
\_\_\_\_\_

# Updated System Impact Study: Appendix 10A

## Application for Certification (08-AFC-6)

for

# WILLOW PASS GENERATING STATION Pittsburg, California

April 2009

*Prepared for:*



*Prepared by:*



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# System Impact Study

## Study Report

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Mirant Willow Pass, LLC  
Willow Pass Generating Station  
Interconnection into PG&E's Pittsburg Substation

*APPENDIX 10A - SWITCHING FILES (\*.swt)  
Used for Transient Stability Analysis*

April 6, 2009

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## Introduction

CEC Staff requested the switching files used to model contingencies in the Willow Pass Generating Station (WPGS) Updated System Impact Study transient stability analysis (March 2, 2009 APPENDIX 10 – Results of Transient Stability Analysis). This document provides the requested switching files (\*.swt) used to model the contingencies studied showing the name of the faulted bus, type of fault, clearing time in cycles of the contingency, etc.

The WPGS transient stability analysis modeled the category B and C outages described below. The media used to represent these outages is normally in separate files, known as \*.swt files or switching files, each modeling separate contingencies. All of these files are concatenated in this document for easy verification by CEC Staff.

## Category B Contingencies

The following list reflects all of the concatenated switch deck files for modeling category B contingencies (single contingencies or N-1) utilized in the WPGS transient stability analysis. Please note that 500kV transmission outages do not utilize Remedial Action Scheme (RAS); however, the overall results modeled without RAS show both contingencies modeled in pre-project and post-project cases are stable. The results of the transient stability analysis show no transient stability issues introduced by the WPGS. The modeling of RAS associated with the 500kV outages would only improve the results.

### TABLE MOUNTAIN-VACA-DIXON 500kV LINE OUTAGE

\* Switch deck file name "B-101\_N-1\_TABLE\_MT-VACA-DIX\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 101

FB 60.0 "VACA-DIX" 500.00

CFB 64.0 "VACA-DIX" 500.00

DL 64.0 "TABLE MT" 500.00 "VACA-DIX" 500.00 "1"

### TABLE MOUNTAIN-TESLA 500kV LINE OUTAGE

\* Switch deck file name "B-102\_N-1\_TABLE\_MT-TESLA\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 102

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TABLE MT" 500.00 "TESLA " 500.00 "1"

### VACA-DIXON-TESLA 500kV LINE OUTAGE

\* Switch deck file name "B-103\_N-1\_VACA-DIX-TESLA\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 102

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TABLE MT" 500.00 "TESLA " 500.00 "1"

MAXWELL-TRACY 500kV LINE OUTAGE

\* Switch deck file name "B-104\_N-1\_MAXWELL-TRACY\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 104

FB 60.0 "TRACY " 500.00

CFB 64.0 "TRACY " 500.00

DL 64.0 "MAXWELL " 500.00 "TRACY " 500.00 "1"

TRACY-LOS BANOS 500kV LINE OUTAGE

\* Switch deck file name "B-105\_N-1\_TRACY-LOSBANOS\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 105

FB 60.0 "TRACY " 500.00

CFB 64.0 "TRACY " 500.00

DL 64.0 "TRACY " 500.00 "LOSBANOS" 500.00 "1"

TRACY-TESLA 500kV LINE OUTAGE

\* Switch deck file name "B-106\_N-1\_TRACY-TESLA\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 106

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TRACY " 500.00 "TESLA " 500.00 "1"

TESLA-METCALF 500kV LINE OUTAGE

\* Switch deck file name "B-107\_N-1\_TESLA-METCALF\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 107

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TESLA " 500.00 "METCALF " 500.00 "1"

TESLA- LOS BANOS 500kV LINE OUTAGE

\* Switch deck file name "B-108\_N-1\_TESLA-LOSBANOS\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 108

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TESLA " 500.00 "LOSBANOS" 500.00 "1"

METCALF-MOSS LANDING 500kV LINE OUTAGE

\* Switch deck file name "B-109\_N-1\_METCALF-MOSSLAND\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 109

FB 60.0 "METCALF " 500.00

CFB 64.0 "METCALF " 500.00

DL 64.0 "METCALF " 500.00 "MOSSLAND" 500.00 "1"

MOSS LANDING-LOS BANOS 500kV LINE OUTAGE

\* Switch deck file name "B-110\_N-1\_MOSSLAND-LOSBANOS\_500.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 110

FB 60.0 "LOSBANOS" 500.00

CFB 64.0 "LOSBANOS" 500.00

DL 64.0 "MOSSLAND" 500.00 "LOSBANOS" 500.00 "1"

CONTRA COSTA SUB-BIRDS LANDING SWST 230kV LINE OUTAGE

\* Switch deck file name "B-128\_N-1\_CC\_SUB-BDLSWSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 128

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "BDLSWSTA" 230.00 "1"

CONTRA COSTA-GATE WAY 230kV LINE OUTAGE

\* Switch deck file name "B-129\_N-1\_C\_COSTA-GATEWAY\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 129

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "GATEWAY " 230.00 "1"

CONTRA COSTA SUB- CONTRA COSTA 230kV LINE OUTAGE

\* Switch deck file name "B-130\_N-1\_CC\_SUB-C\_COSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 130

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "CC SUB " 230.00 "C.COSTA " 230.00 "1"

CONTRA COSTA- BIRDS LANDING SWST 230kV LINE OUTAGE

\* Switch deck file name "B-131\_N-1\_C\_COSTA-BDLSWSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 131

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "BDLSWSTA" 230.00 "C.COSTA " 230.00 "1"

CONTRA COSTA- MORAGA 230kV #1 LINE OUTAGE

\* Switch deck file name "B-132\_N-1\_C\_COSTA-MORAGA\_230\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 132

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "ROSSTAP1" 230.00 "1"

DL 66.0 "ROSSTAP1" 230.00 "MORAGA " 230.00 "1"

DL 66.0 "ROSSTAP1" 230.00 "ROSSMOOR" 230.00 "1"

CONTRA COSTA- MORAGA 230kV #2 LINE OUTAGE

\* Switch deck file name "B-133\_N-1\_C\_COSTA-MORAGA\_230\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 133

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "ROSSTAP2" 230.00 "2"

DL 66.0 "ROSSTAP2" 230.00 "MORAGA " 230.00 "2"

CONTRA COSTA- BRENTWOOD 230kV LINE OUTAGE

\* Switch deck file name "B-134\_N-1\_C\_COSTA-BRENTWOD\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 134

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "BRENTWOD" 230.00 "1"

CONTRA COSTA- DELTA PUMP 230kV LINE OUTAGE

\* Switch deck file name "B-135\_N-1\_C\_COSTA-DELTAPMP\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 135

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "WND MSTR" 230.00 "1"

DL 66.0 "WINDMSTR" 9.11 "WND MSTR" 230.00 "1"

DL 66.0 "WND MSTR" 230.00 "DELTAPMP" 230.00 "1"

CONTRA COSTA- LAS POSITAS 230kV LINE OUTAGE

\* Switch deck file name "B-136\_N-1\_C\_COSTA-LS\_PSTAS\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 136

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "LS PSTAS" 230.00 "1"

CONTRA COSTA- LONETREE 230kV LINE OUTAGE

\* Switch deck file name "B-137\_N-1\_LONETREE-C\_COSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 137

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "LONETREE" 230.00 "1"

PITTSBURG-DEC 230kV #1 LINE OUTAGE

\* Switch deck file name "B-139\_N-1\_PITSBURG\_D-DEC\_1\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 139

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITSBG D" 230.00 "DEC PTSG" 230.00 "1"

PITTSBURG-DEC 230kV #2 LINE OUTAGE

\* Switch deck file name "B-140\_N-1\_PITSBURG\_D-DEC\_2\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 140

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITSBG D" 230.00 "DEC PTSG" 230.00 "2"

PITTSBURG-SAN RAMON 230kV LINE OUTAGE

\* Switch deck file name "B-141\_N-1\_PITSBURG\_D-SANRAMON\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 141

FB 60.0 "PITSBG D" 230.00  
CFB 66.0 "PITSBG D" 230.00  
DL 66.0 "PITSBG D" 230.00 "SANRAMON" 230.00 "1"

PITTSBURG-TASSAJARA 230kV LINE OUTAGE

\* Switch deck file name "B-142\_N-1\_PITSBRG\_D-TASSAJAR\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 142

FB 60.0 "PITSBG D" 230.00  
CFB 66.0 "PITSBG D" 230.00  
DL 66.0 "PITSBG D" 230.00 "TASSAJAR" 230.00 "1"

PITTSBURG-TIDE WATER 230kV LINE OUTAGE

\* Switch deck file name "B-143\_N-1\_PITSBRG\_E-TIDEWATR\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 143

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TIDEWATR" 230.00 "1"

PITTSBURG-TESORO 230kV LINE OUTAGE

\* Switch deck file name "B-144\_N-1\_PITSBRG\_E-TESORO\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 144

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TESORO " 230.00 "1"

PITTSBURG-EAST SHORE 230kV LINE OUTAGE

\* Switch deck file name "B-145\_N-1\_PITSBRG\_E-E\_SHORE\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 145

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "E. SHORE" 230.00 "1"

PITTSBURG-TESLA C 230kV #1 LINE OUTAGE

\* Switch deck file name "B-146\_N-1\_PITSBRG\_E-TESLA\_C\_230\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 146

FB 60.0 "PITSBG E" 230.00

CFB 66.0 "PITSBG E" 230.00

DL 66.0 "PITSBG E" 230.00 "FLOWIND2" 230.00 "1"

DL 66.0 "FLOWD3-6" 9.11 "FLOWIND2" 230.00 "1"

DL 66.0 "FLOWIND2" 230.00 "TESLA C " 230.00 "1"

PITTSBURG-TESLA C 230kV #2 LINE OUTAGE

\* Switch deck file name "B-147\_N-1\_PITSBRG\_E-TESLA\_C\_230\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 147

FB 60.0 "PITSBG E" 230.00

CFB 66.0 "PITSBG E" 230.00

DL 66.0 "PITSBG E" 230.00 "TRES VAQ" 230.00 "2"

DL 66.0 "TRSVQ+NW" 9.11 "TRES VAQ" 230.00 "1"

DL 66.0 "TRES VAQ" 230.00 "TESLA C " 230.00 "2"

PITTSBURG-SAN MATEO 230kV LINE OUTAGE

\* Switch deck file name "B-148\_N-1\_PITSBRG\_E-SANMATEO\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 148

FB 60.0 "PITSBG E" 230.00

CFB 66.0 "PITSBG E" 230.00

DL 66.0 "PITSBG E" 230.00 "SANMATEO" 230.00 "1"

PITTSBURG-POTRERO DC CABLE OUTAGE

\* Switch deck file name "B-154\_N-1\_PITSBURG-POTRERO\_DC.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 154

FB 60.0 "VSC\_PTSB" 180.5

CFB 66.0 "VSC\_PTSB" 180.5

TG 66.0 "VSC\_PTSB" 180.5 "1"

TG 66.0 "VSC\_POTR" 180.5 "1"

PITTSBURG-CLAYTON 115kV #1 LINE OUTAGE

\* Switch deck file name "B-231\_N-1\_PITSBURG-CLAYTN\_115\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 231

FB 60.0 "PITSBURG" 115.00

CFB 66.0 "PITSBURG" 115.00

DL 66.0 "PITSBURG" 115.00 "CLAYTN " 115.00 "1"



PITTSBURG-CLAYTON 115kV #4 LINE OUTAGE

\* Switch deck file name "B-232\_N-1\_PITTSBURG-CLAYTN\_115\_4.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 232

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "CLAYTN " 115.00 "4"

PITTSBURG-LMEC 115kV #1 CABLE OUTAGE

\* Switch deck file name "B-233\_N-1\_PITTSBURG-LMEC\_115\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 233

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "LMEC " 115.00 "1"

PITTSBURG-LMEC 115kV #2 CABLE OUTAGE

\* Switch deck file name "B-234\_N-1\_PITTSBURG-LMEC\_115\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 234

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "LMEC " 115.00 "2"

PITTSBURG-MARTINEZ E 115kV #2 LINE OUTAGE

\* Switch deck file name "B-235\_N-1\_PITTSBURG-MARTNZ\_E\_115\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 235

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "BOLLMAN2" 115.00 "2"

DL 66.0 "IMHOFF\_2" 115.00 "BOLLMAN2" 115.00 "2"

DL 66.0 "MARTNZ E" 115.00 "IMHOFF\_2" 115.00 "2"

DL 66.0 "IMHOFF " 115.00 "IMHOFF\_2" 115.00 "2"

DL 66.0 "IMHOFF " 115.00 "CCCSD " 12.47 "1"

TG 66.0 "CCCSD " 12.47 "1"

DB 66.0 "CCCSD " 12.47

DB 66.0 "IMHOFF " 115.00

DB 66.0 "IMHOFF\_2" 115.00

DB 66.0 "BOLLMAN2" 115.00

PITTSBURG-MARTINEZ E 115kV #1 LINE OUTAGE

\* Switch deck file name "B-236\_N-1\_PITTSBURG-MARTNZ\_E\_115\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 236

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "W.P.BART" 115.00 "1"

DL 66.0 "BOLLMAN1" 115.00 "W.P.BART" 115.00 "1"

DL 66.0 "IMHOFF\_1" 115.00 "BOLLMAN1" 115.00 "1"

DL 66.0 "MARTNZ E" 115.00 "IMHOFF\_1" 115.00 "1"

DB 66.0 "W.P.BART" 115.00

DB 66.0 "BOLLMAN1" 115.00

DB 66.0 "BOLLMAN " 115.00

DB 66.0 "IMHOFF\_1" 115.00

PITTSBURG-COLUMBIA STEEL JCT 115kV LINE OUTAGE

\* Switch deck file name "B-237\_N-1\_PITTSBURG-COLSTJT1\_115.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 237

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "COLSTJT1" 115.00 "1"

DL 66.0 "COLSTJT1" 115.00 "LINDETP1" 115.00 "1"

PITTSBURG-CLAYTON 115kV #3 LINE OUTAGE

\* Switch deck file name "B-238\_N-1\_PITTSBURG-CLAYTN\_115\_3.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 238

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "KIRKTAP1" 115.00 "3"

DL 66.0 "CLAYTN " 115.00 "KIRKTAP1" 115.00 "3"

PITTSBURG-KIRKER-POSCO 115kV LINE OUTAGE

\* Switch deck file name "B-239\_N-1\_PITTSBURG-KIRKER-POSCO\_115.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 239

FB 60.0 "PITSBURG" 115.00  
CFB 66.0 "PITSBURG" 115.00  
DL 66.0 "PITSBURG" 115.00 "KIRKTAP2" 115.00 "1"  
DL 66.0 "KIRKER " 115.00 "KIRKTAP2" 115.00 "1"  
DL 66.0 "COLSTJT2" 115.00 "KIRKTAP2" 115.00 "1"

CONTRA COSTA SUB-FIBER BOARD JCT-CROWN Z 115kV LINE OUTAGE

\* Switch deck file name "B-247\_N-1\_CC\_SUB-FIBRJCT1-CROWNZ\_115.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 247

FB 60.0 "CC SUB " 115.00  
CFB 66.0 "CC SUB " 115.00  
DL 66.0 "CC SUB " 115.00 "FIBRJCT2" 115.00 "1"  
DL 66.0 "DOMTAR " 115.00 "FIBRJCT2" 115.00 "1"  
DL 66.0 "FIBRBJCT" 115.00 "FIBRJCT2" 115.00 "1"  
DL 66.0 "FIBRBJCT" 115.00 "CROWN Z " 115.00 "1"  
DL 66.0 "GWF #3 " 13.80 "CROWN Z " 115.00 "1"  
TG 66.0 "GWF #3 " 13.80 "1"  
MBL 66.0 "DOMTAR " 115.00 "1" D  
MBL 66.0 "GWF #3 " 13.80 "SG" D

CONTRA COSTA SUB-FIBER BOARD JCT-RVEC115kV LINE OUTAGE

\* Switch deck file name "B-248\_N-1\_CC\_SUB-FIBRJCT1-REC\_115.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 248

FB 60.0 "CC SUB " 115.00  
CFB 66.0 "CC SUB " 115.00  
DL 66.0 "CC SUB " 115.00 "CC JCT " 115.00 "1"  
DL 66.0 "FIBRJCT1" 115.00 "CC JCT " 115.00 "1"  
DL 66.0 "FIBRJCT1" 115.00 "RVECTP " 115.00 "1"  
DL 66.0 "RVEC " 115.00 "RVECTP " 115.00 "1"

CONTRA COSTA SUB-DUPONT JCT 60kV LINE OUTAGE

\* Switch deck file name "B-367\_N-1\_CC\_SUB-DUPNTJCT\_60.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 367

FB 60.0 "CC SUB " 60.00  
CFB 72.0 "CC SUB " 60.00

DL 72.0 "CC SUB " 60.00 "WILBRTAP" 60.00 "1"  
DL 72.0 "DU PONT " 60.00 "WILBRTAP" 60.00 "1"  
DL 72.0 "GWF #4 " 13.80 "WILBRTAP" 60.00 "1"  
TG 72.0 "GWF #4 " 13.80 "1"  
MBL 72.0 "GWF #4 " 13.80 "SG" D

CONTRA COSTA SUB-BALFOUR 60kV LINE OUTAGE

\* Switch deck file name "B-368\_N-1\_CC\_SUB-BALFOUR\_60.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 368

FB 60.0 "CC SUB " 60.00  
CFB 72.0 "CC SUB " 60.00  
DL 72.0 "CC SUB " 60.00 "DUPNTJCT" 60.00 "1"  
DL 72.0 "DUPNTJCT" 60.00 "BALFRJCT" 60.00 "1"  
DL 72.0 "BALFRJCT" 60.00 "MARSH " 60.00 "1"  
DL 72.0 "BALFRJCT" 60.00 "BALFOUR " 60.00 "1"  
DL 72.0 "BRIONES " 60.00 "MARSH " 60.00 "1"  
MBL 72.0 "BRIONES " 60.00 "1" D

ANTIOCH-CONTRA COSTA SUB 60kV LINE OUTAGE

\* Switch deck file name "B-370\_N-1\_ANTIOCH-CC\_SUB\_60.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 370

FB 60.0 "CC SUB " 60.00  
CFB 72.0 "CC SUB " 60.00  
DL 72.0 "ANTIOCH " 60.00 "CC SUB " 60.00 "1"  
MBL 72.0 "ANTIOCH " 60.00 "1" D

WILLOW PASS-CONTRA COSTA SUB 60kV LINE OUTAGE

\* Switch deck file name "B-371\_N-1\_WLLW\_PSS-CC\_SUB\_60.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 371

FB 60.0 "CC SUB " 60.00  
CFB 72.0 "CC SUB " 60.00  
DL 72.0 "SHLL CHM" 60.00 "SHLLCHMT" 60.00 "1"  
DL 72.0 "SHLL CHM" 60.00 "WLLW PSS" 60.00 "1"  
DL 72.0 "CC SUB " 60.00 "SHLLCHMT" 60.00 "1"  
DL 72.0 "PITTSBRG" 60.00 "SHLLCHMT" 60.00 "1"

DL 72.0 "PITTSBRG" 60.00 "GWF #1 " 9.11 "1"

MBL 72.0 "SHLL CHM" 60.00 "1" D

MBL 72.0 "GWF #1 " 9.11 "SG" D

TG 72.0 "GWF #1 " 9.11 "1"

VACA DIXON 500/230kV TRANSFORMER BANK #11 OUTAGE

\* Switch deck file name "B-403\_T-1\_VACA-DIX\_500-230\_11.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 403

FB 60.0 "VACA-DIX" 500.00

CFB 64.0 "VACA-DIX" 500.00

DL 64.0 "VACA-DIX" 500.00 "VACA-DIX" 230.00 "11"

VACA DIXON 500/230kV TRANSFORMER BANK #12 OUTAGE

\* Switch deck file name "B-404\_T-1\_VACA-DIX\_500-230\_12.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 404

FB 60.0 "VACA-DIX" 500.00

CFB 64.0 "VACA-DIX" 500.00

DL 64.0 "VACA-DIX" 500.00 "VACA-DIX" 230.00 "12"

TESLA 500/230kV TRANSFORMER BANK #2 OUTAGE

\* Switch deck file name "B-405\_T-1\_TESLA\_500-230\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 405

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TESLA " 500.00 "TESLA E " 230.00 "2"

TESLA 500/230kV TRANSFORMER BANK #6 OUTAGE

\* Switch deck file name "B-406\_T-1\_TESLA\_500-230\_6.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 406

FB 60.0 "TESLA " 500.00

CFB 64.0 "TESLA " 500.00

DL 64.0 "TESLA " 500.00 "TESLA C " 230.00 "6"

TESLA 500/230kV TRANSFORMER BANK #4 OUTAGE

\* Switch deck file name "B-407\_T-1\_TESLA\_500-230\_4.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 407

FB 60.0 "TESLA " 500.00  
CFB 64.0 "TESLA " 500.00  
DL 64.0 "TESLA " 500.00 "TESLA D " 230.00 "4"

METCALF 500/230kV TRANSFORMER BANK #11 OUTAGE

\* Switch deck file name "B-408\_T-1\_METCALF\_500-230\_11.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 408

FB 60.0 "METCALF " 500.00  
CFB 64.0 "METCALF " 500.00  
DL 64.0 "METCALF " 230.00 "METCALF " 500.00 "11"

METCALF 500/230kV TRANSFORMER BANK #12 OUTAGE

\* Switch deck file name "B-409\_T-1\_METCALF\_500-230\_12.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 409

FB 60.0 "METCALF " 500.00  
CFB 64.0 "METCALF " 500.00  
DL 64.0 "METCALF " 230.00 "METCALF " 500.00 "12"

METCALF 500/230kV TRANSFORMER BANK #13 OUTAGE

\* Switch deck file name "B-410\_T-1\_METCALF\_500-230\_13.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 410

FB 60.0 "METCALF " 500.00  
CFB 64.0 "METCALF " 500.00  
DL 64.0 "METCALF " 230.00 "METCALF " 500.00 "13"

TRACY 500/230kV TRANSFORMER BANK #1 OUTAGE

\* Switch deck file name "B-411\_T-1\_TRACY\_500-230\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 411

FB 60.0 "TRACY " 500.00  
CFB 64.0 "TRACY " 500.00  
DL 64.0 "TRACY " 500.00 "TRCY PMP" 230.00 "1"

TRACY 500/230kV TRANSFORMER BANK #2 OUTAGE

\* Switch deck file name "B-412\_T-1\_TRACY\_500-230\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 412

FB 60.0 "TRACY " 500.00

CFB 64.0 "TRACY " 500.00

DL 64.0 "TRACY " 500.00 "TRCY PMP" 230.00 "2"

CONTRA COSTA SUB 230/115kV TRANSFORMER BANK #3 OUTAGE

\* Switch deck file name "B-413\_T-1\_CC\_SUB\_230-115\_3.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 413

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "CC SUB " 115.00 "3"

PITTSBURG 230/115kV TRANSFORMER BANK #12 OUTAGE

\* Switch deck file name "B-417\_T-1\_PITTSBRG\_D\_230-115\_12.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 417

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITTSBURG" 115.00 "PITSBG D" 230.00 "12"

PITTSBURG 230/115kV TRANSFORMER BANK #13 OUTAGE

\* Switch deck file name "B-418\_T-1\_PITTSBRG\_D\_230-115\_13.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 418

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITTSBURG" 115.00 "PITSBG D" 230.00 "13"

CONTRA COSTA SUB 230/115kV TRANSFORMER BANK #3 OUTAGE

\* Switch deck file name "B-421\_T-1\_CC\_SUB\_230-115\_3.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 421

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 115.00 "CC SUB " 230.00 "3"

CONTRA COSTA SUB 115/60kV TRANSFORMER BANK #1 OUTAGE

\* Switch deck file name "B-454\_T-1\_CC\_SUB\_115-60\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 454

FB 60.0 "CC SUB " 115.00

CFB 66.0 "CC SUB " 115.00

DL 66.0 "CC SUB " 60.00 "CC SUB " 115.00 "1"

CONTRA COSTA SUB 115/60kV TRANSFORMER BANK #2 OUTAGE

\* Switch deck file name "B-455\_T-1\_CC\_SUB\_115-60\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 455

FB 60.0 "CC SUB " 115.00

CFB 66.0 "CC SUB " 115.00

DL 66.0 "CC SUB " 60.00 "CC SUB " 115.00 "2"

DEC PLANT OUTAGE

\* Switch deck file name "B-498\_G-1\_DEC\_PLANT.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 498

TG 60.0 "DEC STG1" 24.00 "1"

TG 60.0 "DEC CTG1" 18.00 "1"

TG 60.0 "DEC CTG2" 18.00 "1"

TG 60.0 "DEC CTG3" 18.00 "1"

LMEC PLANT OUTAGE

\* Switch deck file name "B-502\_G-1\_LMEC\_PLANT.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 502

TG 60.0 "LMECCT1 " 18.00 "1"

TG 60.0 "LMECCT2 " 18.00 "1"

TG 60.0 "LMECST1 " 18.00 "1"

CONTRA COSTA UNIT #6 OUTAGE

\* Switch deck file name "B-511\_G-1\_C\_COSTA\_6.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 511

TG 60.0 "C.COS 6 " 18.00 "1"

MBL 60.0 "C.COS 6 " 18.00 "ss" D

CONTRA COSTA UNIT #7 OUTAGE

\* Switch deck file name "B-512\_G-1\_C\_COSTA\_7.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 512

TG 60.0 "C.COS 7 " 18.00 "1"



#### PITTSBURG UNIT #5 OUTAGE

\* Switch deck file name "B-513\_G-1\_PTSB\_5.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 513

TG 60.0 "PTSB 5 " 18.00 "1"

#### PITTSBURG UNIT #6 OUTAGE

\* Switch deck file name "B-514\_G-1\_PTSB\_6.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 514

TG 60.0 "PTSB 6 " 18.00 "1"

#### PITTSBURG UNIT #7 OUTAGE

\* Switch deck file name "B-515\_G-1\_PTSB\_7.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 515

TG 60.0 "PTSB 7 " 20.00 "1"

#### WILLOW PASS PLANT OUTAGE

\* Switch deck file name "B-996\_G-1\_WLLW\_PSS\_PLANT.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 996

TG 60.0 "MIR\_CT1" 16.50 "1"

TG 60.0 "MIR\_ST1" 13.80 "2"

TG 60.0 "MIR\_CT2" 16.50 "3"

TG 60.0 "MIR\_ST2" 13.80 "4"

## Category C Contingencies

The following list reflects all of concatenated switch deck files for modeling category C contingencies (double contingencies or N-2 or bus section outages) utilized in the WPGS transient stability analysis.

#### N-2 COCO-BIRDS LANDING & CONTRA COSTA SUB - BIRDS LANDING 230kV LINES

\* Switch deck file name "C-111\_N-2\_BDLSWSTA-C\_COSTA-CC\_SUB\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 111

FB 60.0 "BDLSWSTA" 230.00

CFB 66.0 "BDLSWSTA" 230.00

DL 66.0 "BDLSWSTA" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "BDLSWSTA" 230.00 "CC SUB " 230.00 "1"

N-2 CONTRA COSTA SUB – COCO & BIRDS LANDING - CONTRA COSTA SUB 230kV LINES

\* Switch deck file name "C-112\_N-2\_CC\_SUB-C\_COSTA-BDLSWSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 112

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "BDLSWSTA" 230.00 "CC SUB " 230.00 "1"

N-2 CONTRA COSTA-MORAGA 230kV #1 & #2 LINES

\* Switch deck file name "C-113\_N-2\_C\_COSTA-MORAGA\_230\_1-2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 113

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "ROSSTAP1" 230.00 "1"

DL 66.0 "ROSSTAP1" 230.00 "MORAGA " 230.00 "1"

DL 66.0 "ROSSTAP1" 230.00 "ROSSMOOR" 230.00 "1"

DL 66.0 "C.COSTA " 230.00 "ROSSTAP2" 230.00 "2"

DL 66.0 "ROSSTAP2" 230.00 "MORAGA " 230.00 "2"

N-2 CONTRA COSTA-LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES

\* Switch deck file name "C-114\_N-2\_C\_COSTA-LS\_PSTAS-CAYETANO\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 114

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "C.COSTA " 230.00 "LS PSTAS" 230.00 "1"

DL 66.0 "C.COSTA " 230.00 "LONETREE" 230.00 "1"

DL 66.0 "LONETREE" 230.00 "USWP-JRW" 230.00 "1"

DL 66.0 "USWP-JRW" 230.00 "CAYETANO" 230.00 "1"

DL 66.0 "USWP-JRW" 230.00 "USWP\_#3 " 9.11 "1"

MBL 66.0 "USWP\_#3 " 9.11 "SG" D

N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230kV LINES

\* Switch deck file name "C-115\_N-2\_CAYETANO-NDUBLIN-C\_COSTA\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 115

FB 60.0 "CAYETANO" 230.00

CFB 66.0 "CAYETANO" 230.00  
DL 66.0 "CAYETANO" 230.00 "NDUBLIN " 230.00 "1"  
DL 66.0 "C.COSTA " 230.00 "LONETREE" 230.00 "1"  
DL 66.0 "LONETREE" 230.00 "USWP-JRW" 230.00 "1"  
DL 66.0 "USWP-JRW" 230.00 "CAYETANO" 230.00 "1"  
DL 66.0 "USWP-JRW" 230.00 "USWP\_#3 " 9.11 "1"  
MBL 66.0 "USWP\_#3 " 9.11 "SG" D

N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230KV LINES

\* Switch deck file name "C-116\_N-2\_PITSBG\_E-TESORO-TIDEWATR\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 116

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TESORO " 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "TIDEWATR" 230.00 "1"

N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230KV LINES

\* Switch deck file name "C-118\_N-2\_PITSBG\_E-SANMATEO-E\_SHORE\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 118

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "SANMATEO" 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "E. SHORE" 230.00 "1"

N-2 PITTSBURG - TESLA #1 & #2 230KV LINES

\* Switch deck file name "C-119\_N-2\_PITSBG\_E-TESLA\_230\_1-2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 119

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TRES VAQ" 230.00 "2"  
DL 66.0 "TRSVQ+NW" 9.11 "TRES VAQ" 230.00 "1"  
DL 66.0 "TRES VAQ" 230.00 "TESLA C " 230.00 "2"  
DL 66.0 "PITSBG E" 230.00 "FLOWIND2" 230.00 "1"  
DL 66.0 "FLOWD3-6" 9.11 "FLOWIND2" 230.00 "1"  
DL 66.0 "FLOWIND2" 230.00 "TESLA C " 230.00 "1"

N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES

\* Switch deck file name "C-120\_N-2\_PITSBG\_D-SANRAMON-TASSAJAR\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 120

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITSBG D" 230.00 "SANRAMON" 230.00 "1"

DL 66.0 "PITSBG D" 230.00 "TASSAJAR" 230.00 "1"

N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES

\* Switch deck file name "C-128\_N-2\_NDBLN-VINYD\_CCOSTA-LSPSTAS\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 128

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "NDUBLIN " 230.00 "VINEYD\_D" 230.00 "1"

DL 66.0 "C.COSTA " 230.00 "LS PSTAS" 230.00 "1"

N-2 PITTSBURG - SANRAMON & TASSAJAR - NEWARK 230kV LINES

\* Switch deck file name "C-139\_N-2\_PITSBGD-SNRAMN\_TASSJR-NWRK\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 139

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "TASSAJAR" 230.00 "TES JCT " 230.00 "1"

DL 66.0 "TES JCT " 230.00 "RESEARCH" 230.00 "1"

DL 66.0 "TES JCT " 230.00 "NEWARK E" 230.00 "1"

DB 66.0 "RESEARCH" 230.00

DB 66.0 "TES JCT " 230.00

DL 66.0 "PITSBG D" 230.00 "SANRAMON" 230.00 "1"

N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES

\* Switch deck file name "C-124\_N-2\_SANMATEO-PITSBG\_E-E\_SHORE\_230.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 124

FB 60.0 "SANMATEO" 230.00

CFB 66.0 "SANMATEO" 230.00

DL 66.0 "PITSBG E" 230.00 "SANMATEO" 230.00 "1"

DL 66.0 "E. SHORE" 230.00 "SANMATEO" 230.00 "1"

N-2 PITTSBURG - MARTZ 115kV #1 & #2 LINES

\* Switch deck file name "C-158\_N-2\_PITTSBURG-MARTNZ\_E\_115\_1-2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 158

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "W.P.BART" 115.00 "1"

DL 66.0 "BOLLMAN1" 115.00 "W.P.BART" 115.00 "1"

DL 66.0 "IMHOFF\_1" 115.00 "BOLLMAN1" 115.00 "1"

DL 66.0 "MARTNZ E" 115.00 "IMHOFF\_1" 115.00 "1"

DL 66.0 "PITTSBURG" 115.00 "BOLLMAN2" 115.00 "2"

DL 66.0 "IMHOFF\_2" 115.00 "BOLLMAN2" 115.00 "2"

DL 66.0 "MARTNZ E" 115.00 "IMHOFF\_2" 115.00 "2"

DL 66.0 "IMHOFF " 115.00 "IMHOFF\_2" 115.00 "2"

DL 66.0 "IMHOFF " 115.00 "CCCSD " 12.47 "1"

TG 66.0 "CCCSD " 12.47 "1"

DB 66.0 "CCCSD " 12.47

DB 66.0 "IMHOFF " 115.00

DB 66.0 "IMHOFF\_2" 115.00

DB 66.0 "BOLLMAN2" 115.00

DB 66.0 "W.P.BART" 115.00

DB 66.0 "BOLLMAN1" 115.00

DB 66.0 "BOLLMAN " 115.00

DB 66.0 "IMHOFF\_1" 115.00

CONTRA COSTA SUB 230KV BUS SECTION 1 OUTAGE

\* Switch deck file name "C-210\_B-1\_CC\_SUB\_230\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 210

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "BDLSWSTA" 230.00 "1"

DL 66.0 "CC SUB " 230.00 "CC SUB " 115.00 "3"

MBL 66.0 "CC SUB " 230.00 "9" D

CONTRA COSTA SUB 230kV BUS SECTION 2 OUTAGE

\* Switch deck file name "C-211\_B-1\_CC\_SUB\_230\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 211

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "C.COSTA " 230.00 "1"

MBL 66.0 "CC SUB " 230.00 "8" D

CONTRA COSTA PP 230kV BUS SECTION 1 D OUTAGE

\* Switch deck file name "C-212\_B-1\_C\_COSTA\_230\_1-D.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 212

FB 60.0 "CC SUB " 230.00

CFB 66.0 "CC SUB " 230.00

DL 66.0 "CC SUB " 230.00 "C.COSTA " 230.00 "1"

CONTRA COSTA PP 230kV BUS SECTION 2 D OUTAGE

\* Switch deck file name "C-213\_B-1\_C\_COSTA\_230\_2-D.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 213

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "BDLSWSTA" 230.00 "C.COSTA " 230.00 "1"

CONTRA COSTA PP 230kV BUS SECTION 1 E OUTAGE

\* Switch deck file name "C-214\_B-1\_C\_COSTA\_230\_1-E.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 214

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "LS PSTAS" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "C.COS 5 " 13.80 "C.COSTA " 230.00 "1"

CONTRA COSTA PP 230kV BUS SECTION 2 E OUTAGE

\* Switch deck file name "C-215\_B-1\_C\_COSTA\_230\_2-E.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 215

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "LONETREE" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "C.COS 4 " 13.80 "C.COSTA " 230.00 "1"

CONTRA COSTA PP 230kV BUS SECTION 1 F OUTAGE

\* Switch deck file name "C-216\_B-1\_C\_COSTA\_230\_1-F.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 216

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "BRENTWOD" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "ROSSTAP1" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "C.COS 7 " 18.00 "C.COSTA " 230.00 "1"

CONTRA COSTA PP 230kV BUS SECTION 2 F OUTAGE

\* Switch deck file name "C-217\_B-1\_C\_COSTA\_230\_2-F.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 217

FB 60.0 "C.COSTA " 230.00

CFB 66.0 "C.COSTA " 230.00

DL 66.0 "WND MSTR" 230.00 "C.COSTA " 230.00 "1"

DL 66.0 "ROSSTAP2" 230.00 "C.COSTA " 230.00 "2"

DL 66.0 "C.COS 6 " 18.00 "C.COSTA " 230.00 "1"

PITTSBURG 230kV BUS SECTION 1 D OUTAGE

\* Switch deck file name "C-219\_B-1\_PITSBG\_D\_230\_1-D.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 219

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITSBG D" 230.00 "TASSAJAR" 230.00 "1"

DL 66.0 "PITSBG D" 230.00 "DEC PTSG" 230.00 "1"

DL 66.0 "PITSBG D" 230.00 "PITTSBURG" 115.00 "13"

PITTSBURG 230kV BUS SECTION 2 D OUTAGE

\* Switch deck file name "C-220\_B-1\_PITSBG\_D\_230\_2-D.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 220

FB 60.0 "PITSBG D" 230.00

CFB 66.0 "PITSBG D" 230.00

DL 66.0 "PITSBG D" 230.00 "SANRAMON" 230.00 "1"  
DL 66.0 "PITSBG D" 230.00 "DEC PTSG" 230.00 "2"  
DL 66.0 "PITSBG D" 230.00 "PITSBURG" 115.00 "12"

PITTSBURG 230kV BUS SECTION 1 E OUTAGE

\* Switch deck file name "C-221\_B-1\_PITSBG\_E\_230\_1-E.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 221

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TIDEWATR" 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "E. SHORE" 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "FLOWIND2" 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "PTSB 7 " 20.00 "1"

PITTSBURG 230kV BUS SECTION 2 E OUTAGE

\* Switch deck file name "C-222\_B-1\_PITSBG\_E\_230\_2-E.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 222

FB 60.0 "PITSBG E" 230.00  
CFB 66.0 "PITSBG E" 230.00  
DL 66.0 "PITSBG E" 230.00 "TESORO " 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "TRES VAQ" 230.00 "2"  
DL 66.0 "PITSBG E" 230.00 "SANMATEO" 230.00 "1"  
DL 66.0 "PITSBG E" 230.00 "PTSB 5 " 18.00 "1"  
DL 66.0 "PITSBG E" 230.00 "PTSB 5 " 18.00 "2"  
DL 66.0 "PITSBG E" 230.00 "PTSB 6 " 18.00 "1"  
DL 66.0 "PITSBG E" 230.00 "PTSB 6 " 18.00 "2"

PITTSBURG 115kV BUS SECTION 1 OUTAGE

\* Switch deck file name "C-232\_B-1\_PITSBURG\_115\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 232

FB 60.0 "PITSBURG" 115.00  
CFB 66.0 "PITSBURG" 115.00  
DL 66.0 "PITSBURG" 115.00 "W.P.BART" 115.00 "1"  
DL 66.0 "PITSBURG" 115.00 "COLSTJT1" 115.00 "1"  
DL 66.0 "PITSBURG" 115.00 "LMEC " 115.00 "1"



DL 66.0 "PITTSBURG" 115.00 "KIRKTAP1" 115.00 "3"  
DL 66.0 "PITTSBURG" 115.00 "PITSBG D" 230.00 "13"

PITTSBURG 115kV BUS SECTION 2 OUTAGE

\* Switch deck file name "C-233\_B-1\_PITTSBURG\_115\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 233

FB 60.0 "PITTSBURG" 115.00

CFB 66.0 "PITTSBURG" 115.00

DL 66.0 "PITTSBURG" 115.00 "CLAYTN " 115.00 "1"

DL 66.0 "PITTSBURG" 115.00 "CLAYTN " 115.00 "4"

DL 66.0 "PITTSBURG" 115.00 "LMEC " 115.00 "2"

DL 66.0 "PITTSBURG" 115.00 "BOLLMAN2" 115.00 "2"

DL 66.0 "PITTSBURG" 115.00 "KIRKTAP2" 115.00 "1"

DL 66.0 "PITTSBURG" 115.00 "PITSBG D" 230.00 "12"

CONTRA COSTA SUB 115kV BUS SECTION 1 OUTAGE

\* Switch deck file name "C-242\_B-1\_CC\_SUB\_115\_1.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 242

FB 60.0 "CC SUB " 115.00

CFB 66.0 "CC SUB " 115.00

DL 66.0 "CC SUB " 115.00 "CC JCT " 115.00 "1"

DL 66.0 "CC SUB " 115.00 "CC SUB " 230.00 "3"

DL 66.0 "CC SUB " 115.00 "CC SUB " 60.00 "1"

MBL 66.0 "CC SUB " 115.00 "4" D

CONTRA COSTA SUB 115kV BUS SECTION 2 OUTAGE

\* Switch deck file name "C-243\_B-1\_CC\_SUB\_115\_2.swt"

\*\*\*\* CASE NUMBER \*\*\*\* 243

FB 60.0 "CC SUB " 115.00

CFB 66.0 "CC SUB " 115.00

DL 66.0 "CC SUB " 115.00 "FIBRJCT2" 115.00 "1"

DL 66.0 "CC SUB " 115.00 "CC SUB " 60.00 "2"