

DOCKET
09-AFC-10

DATE OCT 12 2010

RECD. OCT 12 2010

October 12, 2010

California Energy Commission
Dockets Unit
1516 Ninth Street
Sacramento, CA 95814-5512

**Subject: RICE SOLAR ENERGY, LLC'S FULL LOAD REJECTION STABILITY PLOTS
RICE SOLAR ENERGY PROJECT
DOCKET NO. (09-AFC-10)**

Enclosed for re-filing with the California Energy Commission is the original of **RICE SOLAR ENERGY, LLC'S FULL LOAD REJECTION STABILITY PLOTS**, for the Rice Solar Energy Project (09-AFC-10). The documents enclosed were previously submitted to the Dockets Unit, however, did not appear to be docketed.

Sincerely,



Marie Mills

Rice Solar Energy LLC's Full Load Rejection Stability Plots

July 16, 2010

Loss of Rice Generation

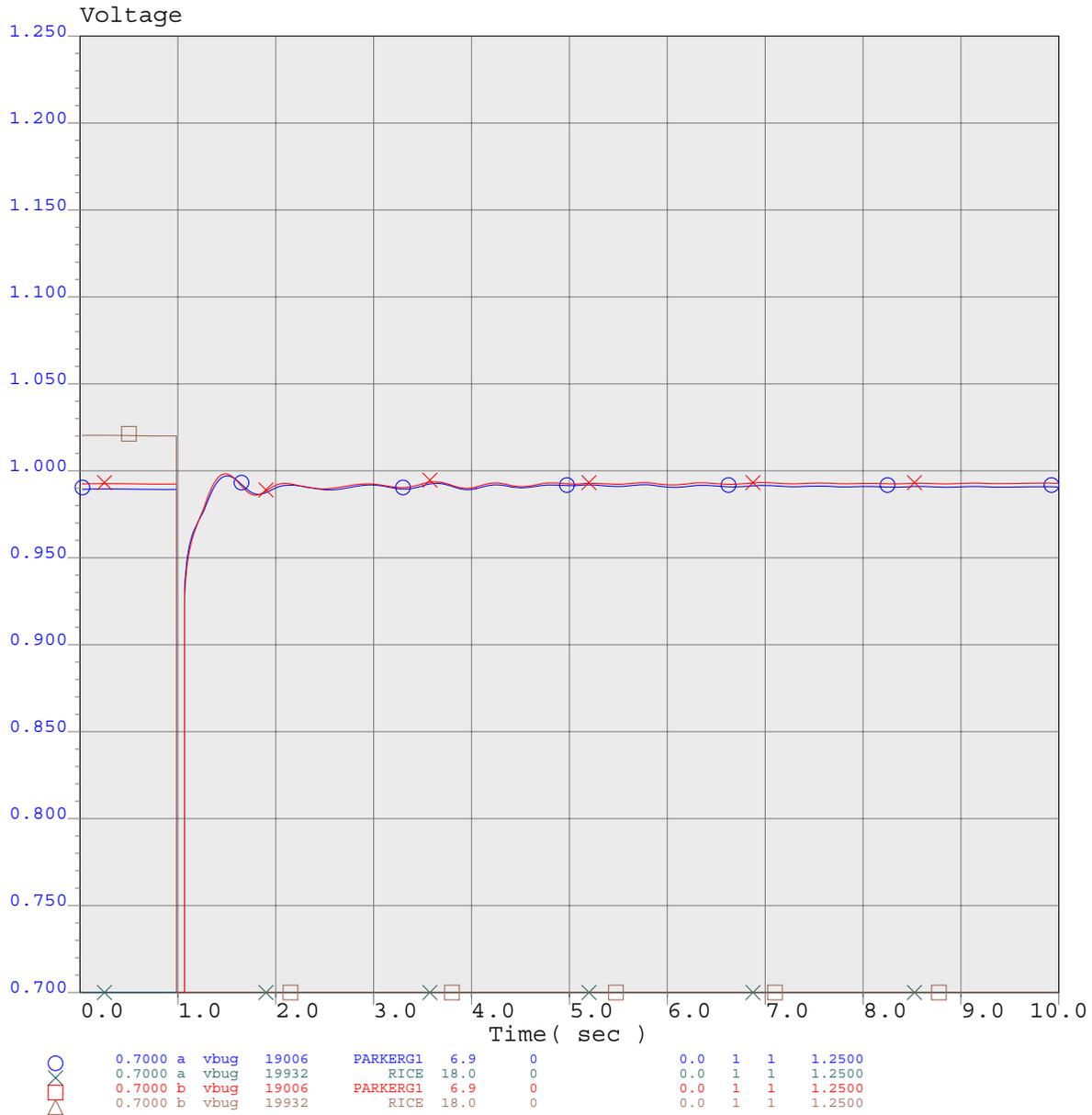
Plot Comparison of Pre-Project vs. Post-Project

Pre-Project bus fault at Rice Substation of 5 cycles with no Rice generation or interconnection tie line

Post-Project bus fault at Rice Substation of 5 cycles with Rice tie line tripping out and the loss of Rice generation

Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator Voltage Plots

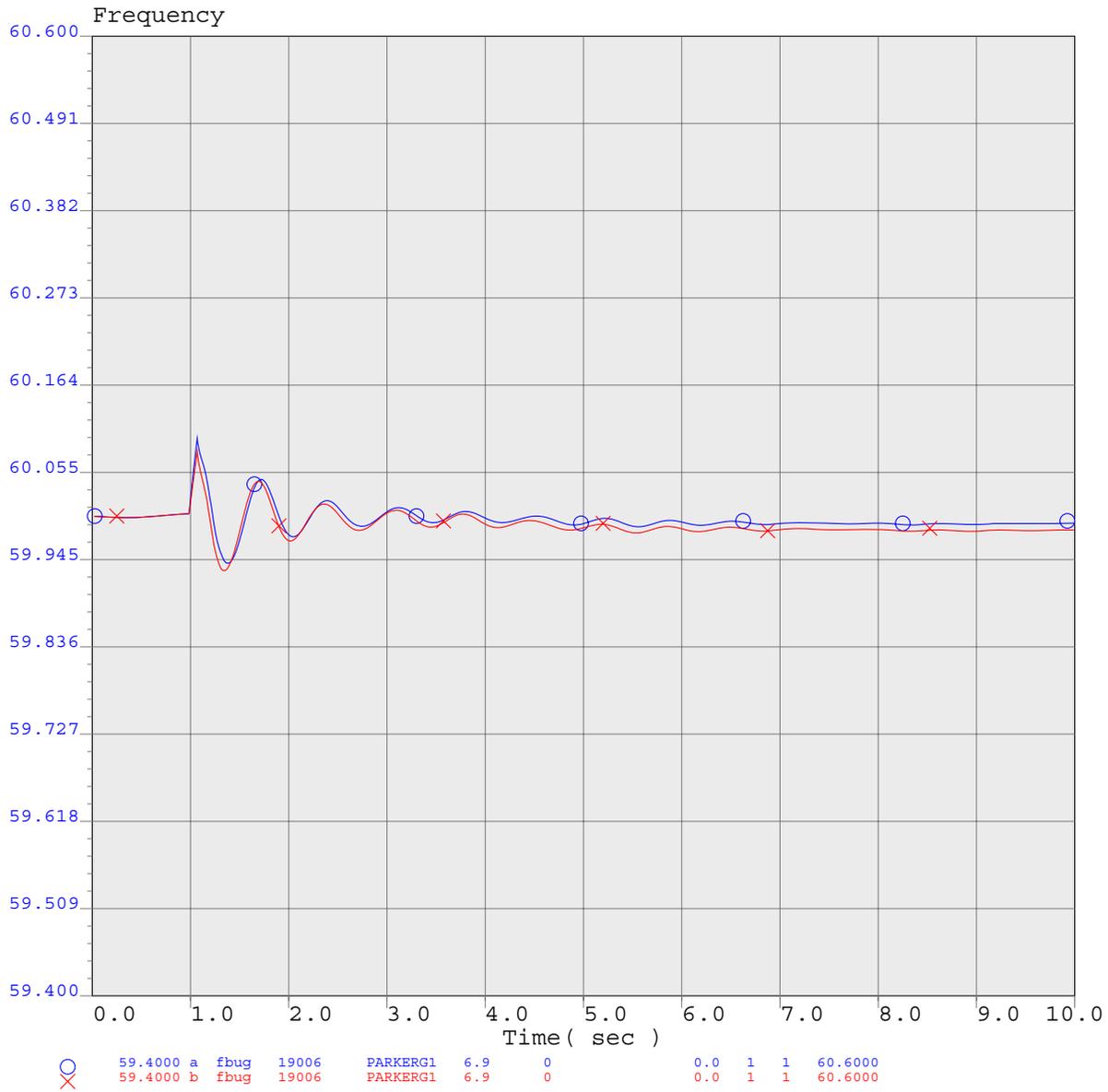


Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 RICE to RICE2 161 kV T-Line
 Fault at RICE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzite On Generator Frequency Plots

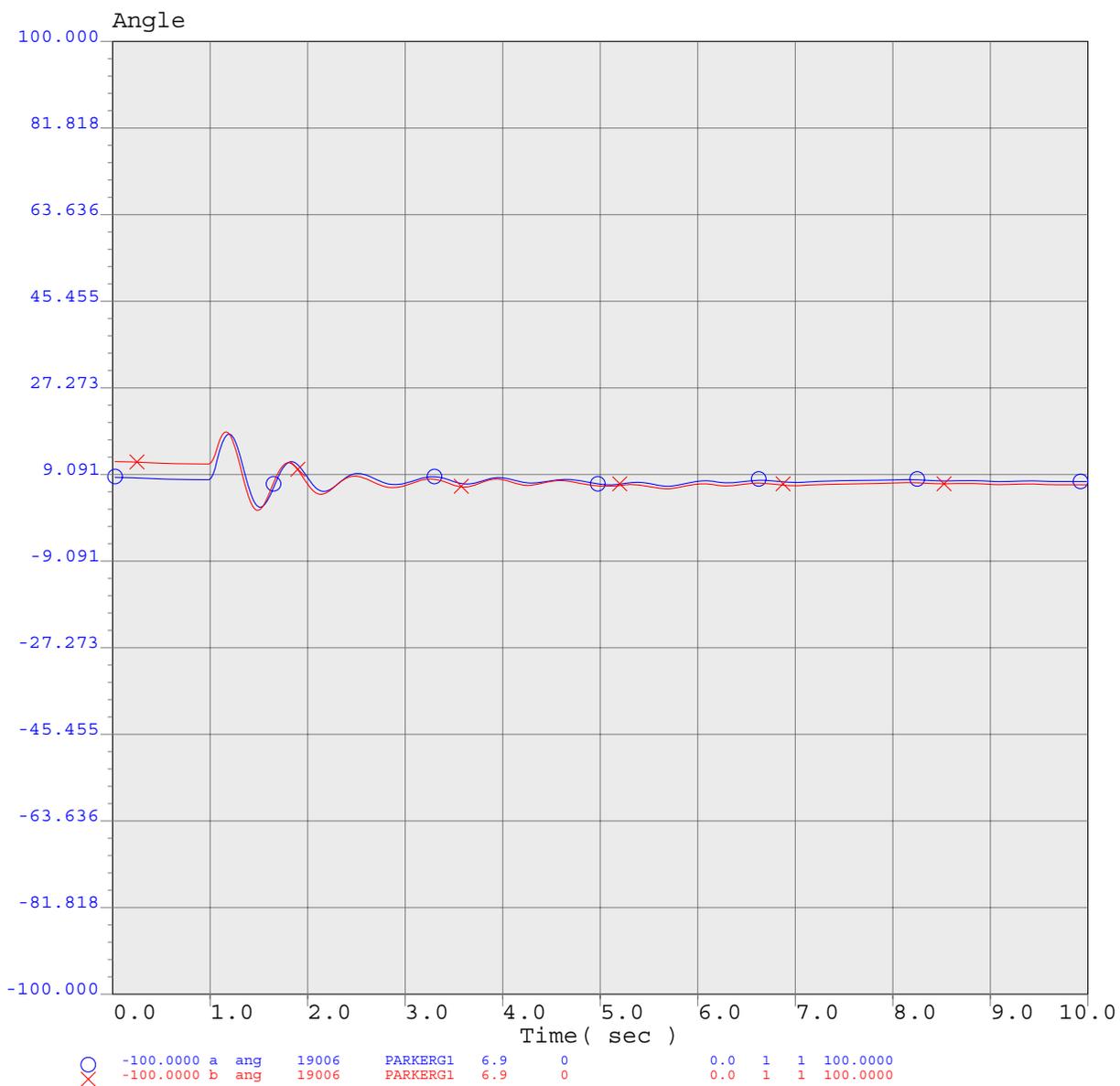


Rice System Impact Study
 13HS case with Quartzite & Rice Projects In Service
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 Fault at RICE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzite On Generator Angle Plots

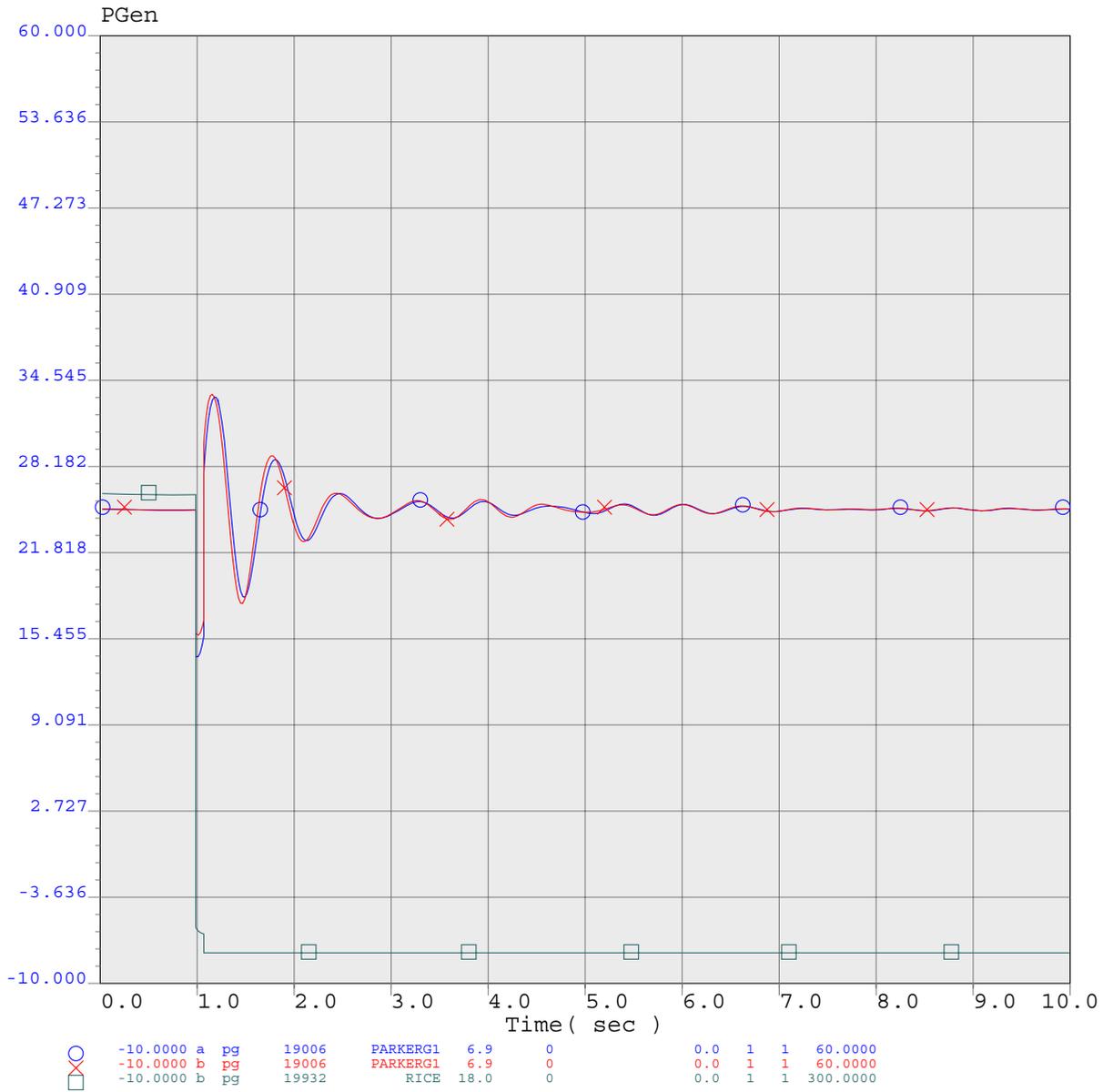


Rice System Impact Study
 13HS case with Quartzite & Rice Projects In Service
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 Fault at RICE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator PGen Plots



Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 RICE to RICE2 161 kV T-Line
 Fault at RICE end of the line
 Normal Clearing After 5 cycles



Worst NERC B Event

(Determined by comparison of pre-project maximum voltage dip to post-project maximum voltage dip. The greatest change in voltage dip from pre-project to post-project was used as the Worst NERC B Event.)

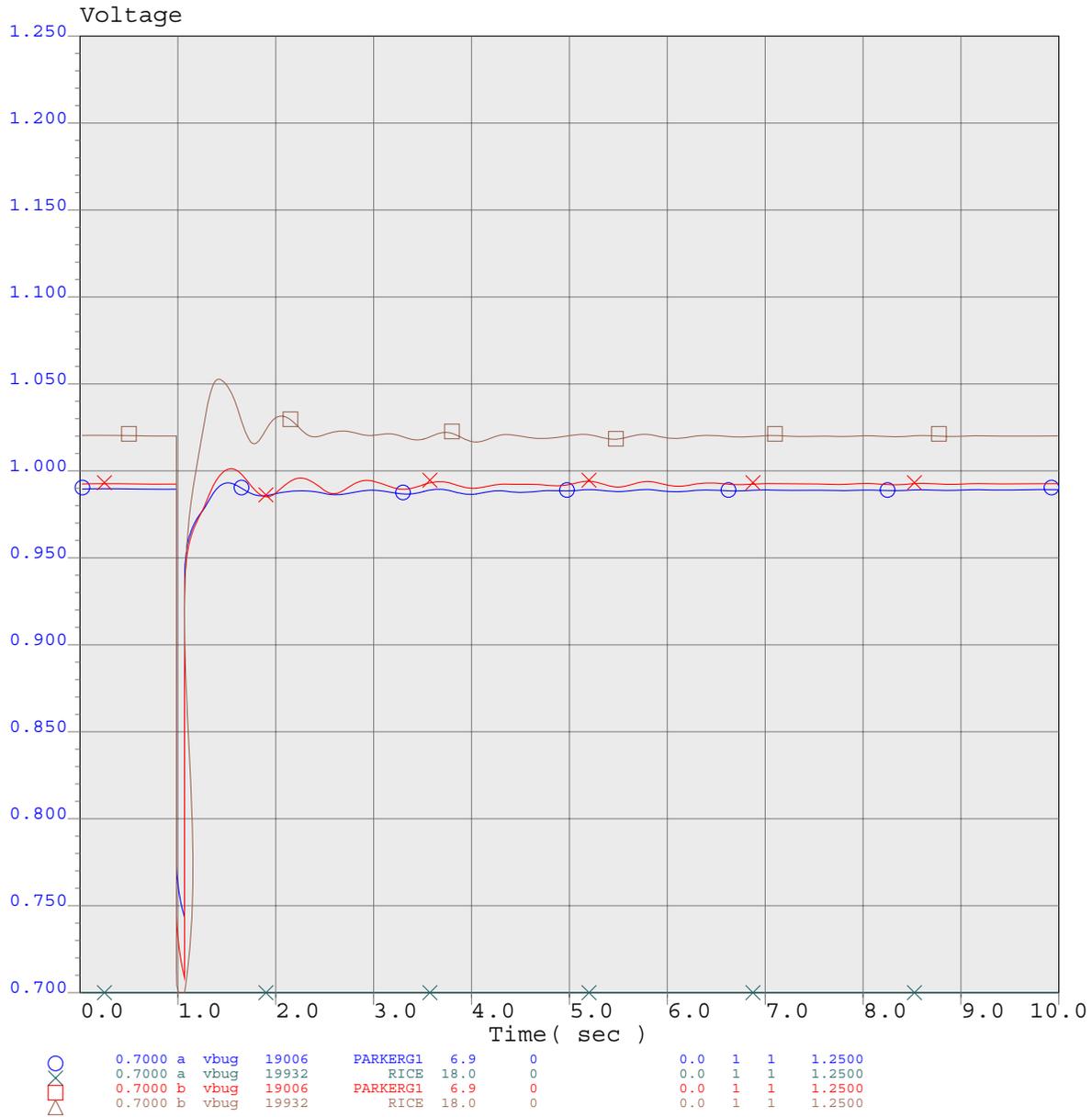
Plot Comparison of Pre-Project vs. Post-Project

Pre-Project bus fault at Blythe Substation of 5 cycles with the Blythe to Headgate
Rock line tripping off

Post-Project bus fault at Blythe Substation of 5 cycles with the Blythe to Headgate
Rock line tripping off

Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator Voltage Plots

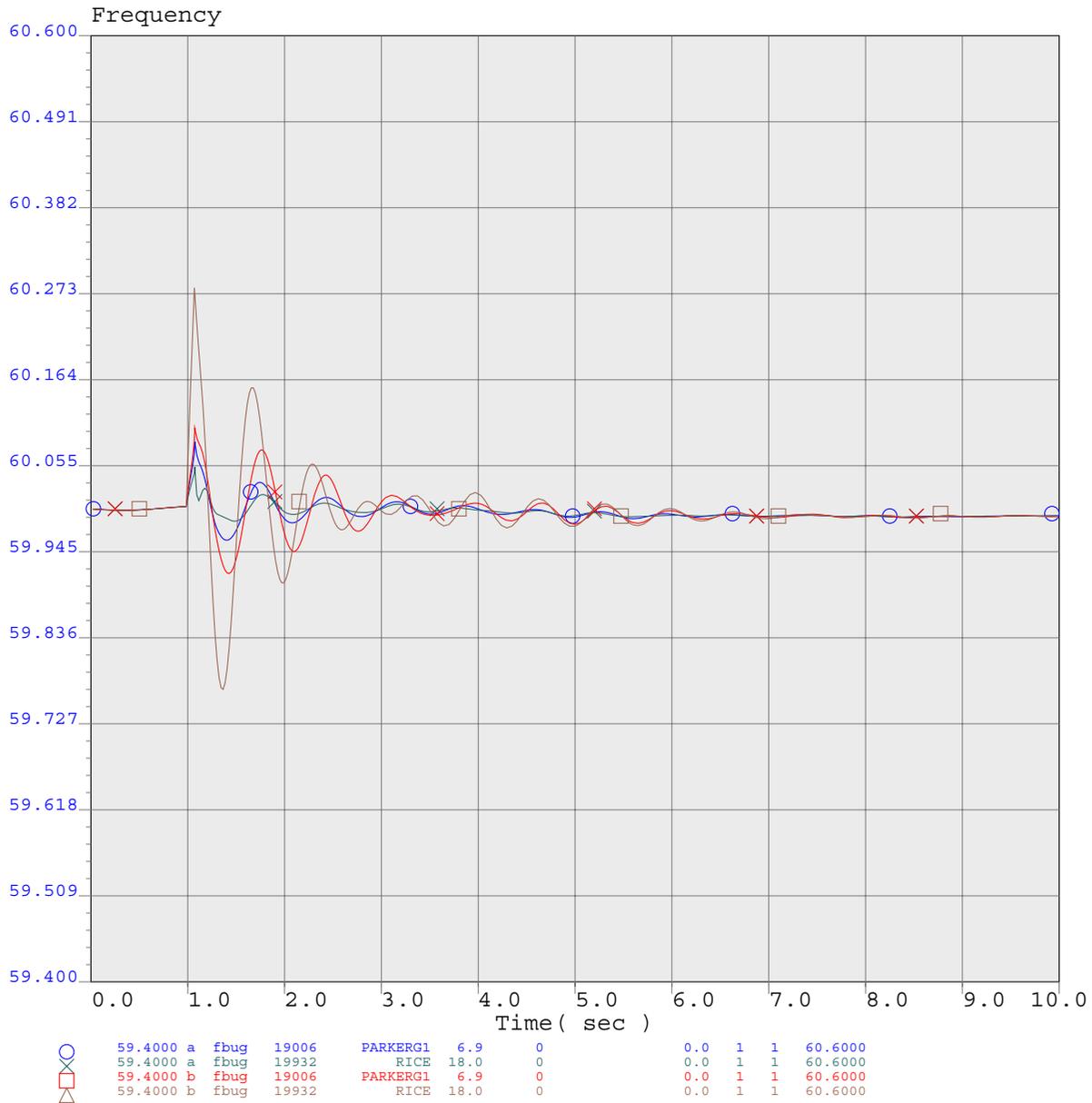


Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 BLYTHE to HEADGATE ROCK 161 kV T-Line
 Fault at BLYTHE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator Frequency Plots

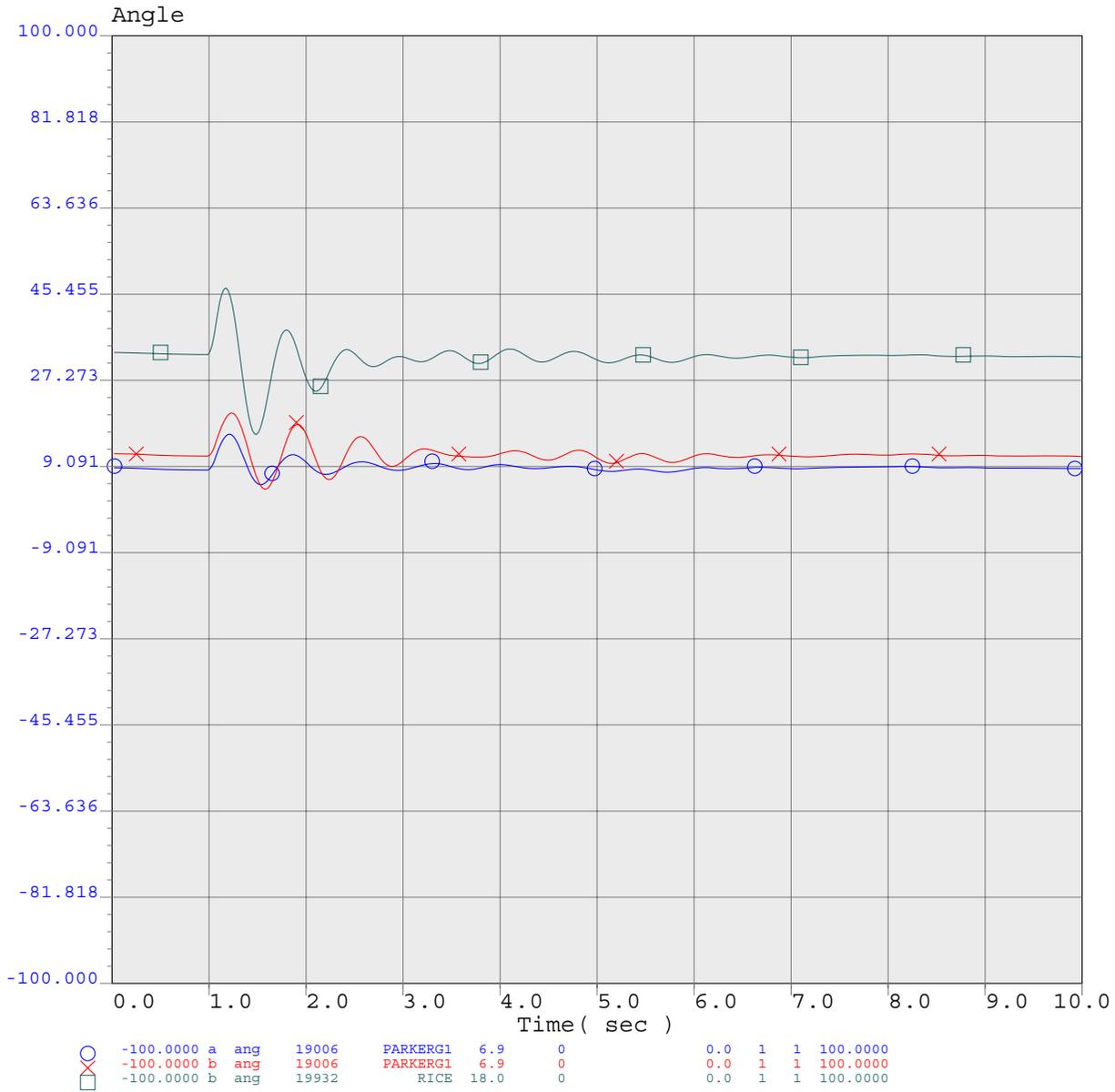


Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 BLYTHE to HEADGATE ROCK 161 kV T-Line
 Fault at BLYTHE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzite On Generator Angle Plots

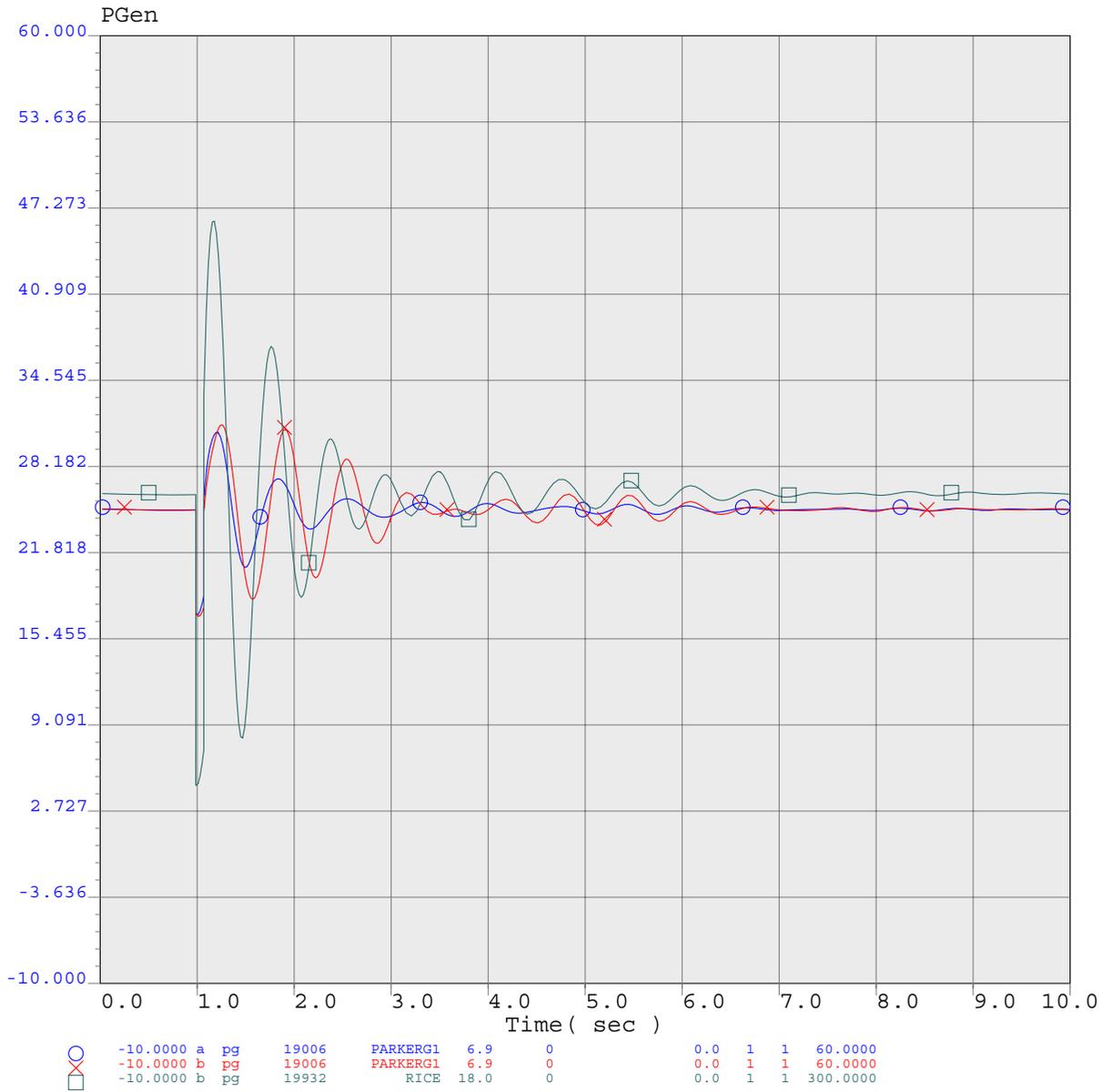


Rice System Impact Study
 13HS case with Quartzite & Rice Projects In Service
 BLYTHE to HEADGATE ROCK 161 kV T-Line
 Fault at BLYTHE end of the line
 Normal Clearing After 5 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator PGen Plots



Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 BLYTHE to HEADGATE ROCK 161 kV T-Line
 Fault at BLYTHE end of the line
 Normal Clearing After 5 cycles



Worst NERC C Event

(Determined by comparison of pre-project maximum voltage dip to post-project maximum voltage dip. The greatest change in voltage dip from pre-project to post-project was used as the Worst NERC C Event.)

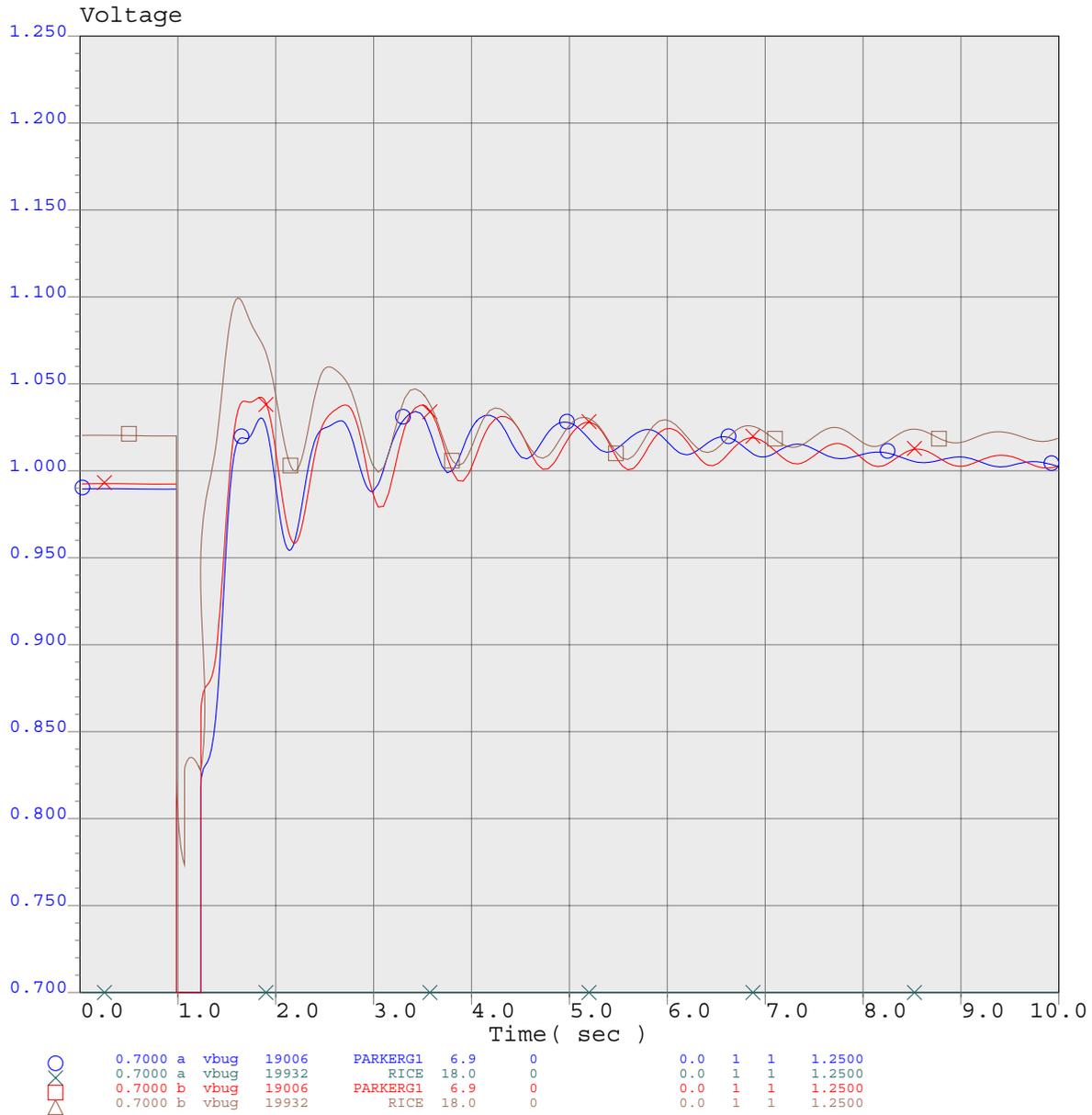
Plot Comparison of Pre-Project vs. Post-Project

Pre-Project stuck breaker fault at Parker Substation with 5 cycles clearing of North bus and 15 cycles clearing of South bus

Post-Project stuck breaker fault at Parker Substation with 5 cycles clearing of North bus and 15 cycles clearing of South bus

Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator Voltage Plots

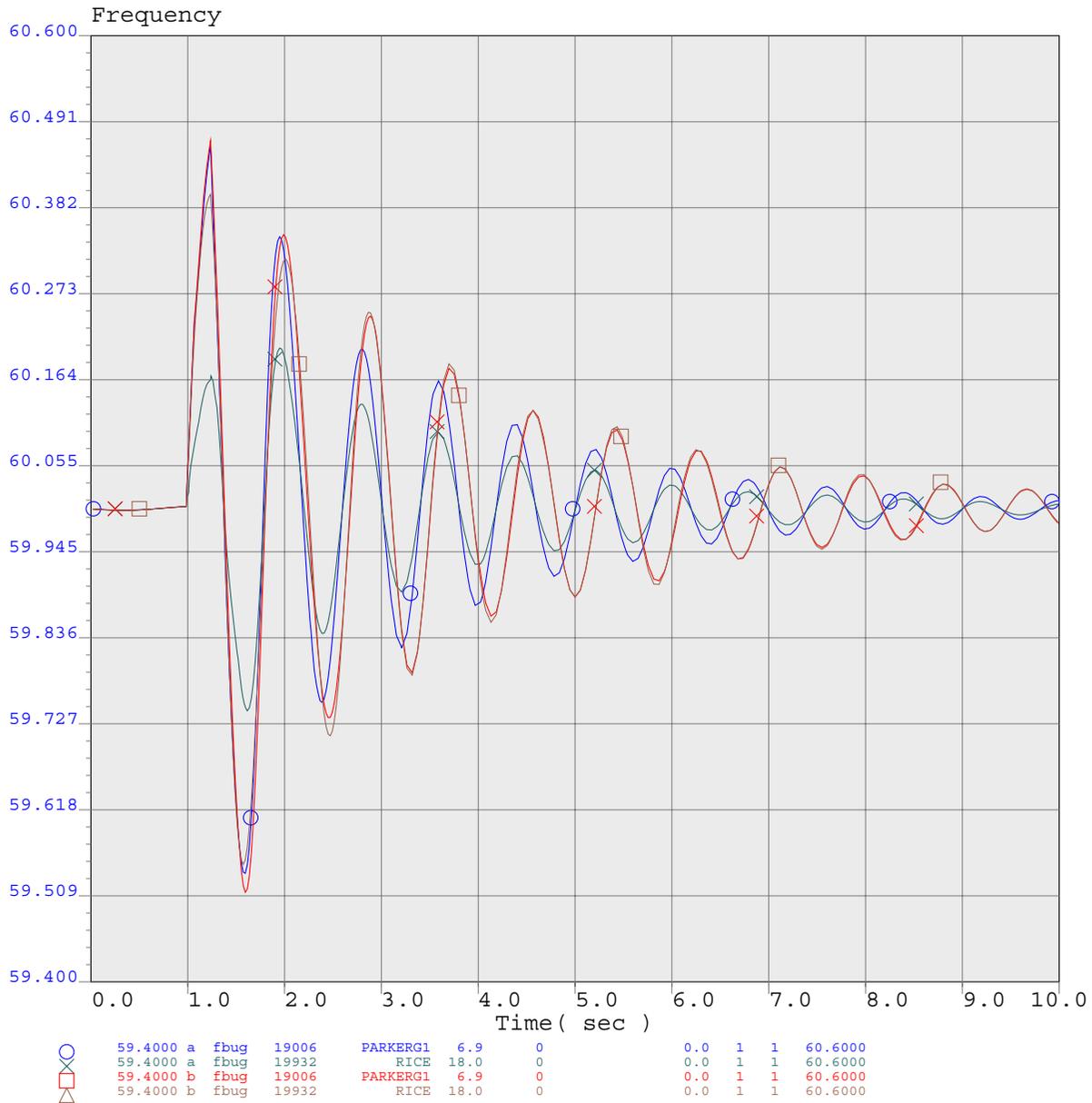


Rice System Impact Study
 13HS case with Quartzzite & Rice Projects In Service
 Breaker Failure PAD1082
 North Bus Clearing After 5 cycles
 South Bus Clearing After 15 cycles



Rice System Impact Study

13HS Pre vs. Post-Project with Quartzzite On Generator Frequency Plots

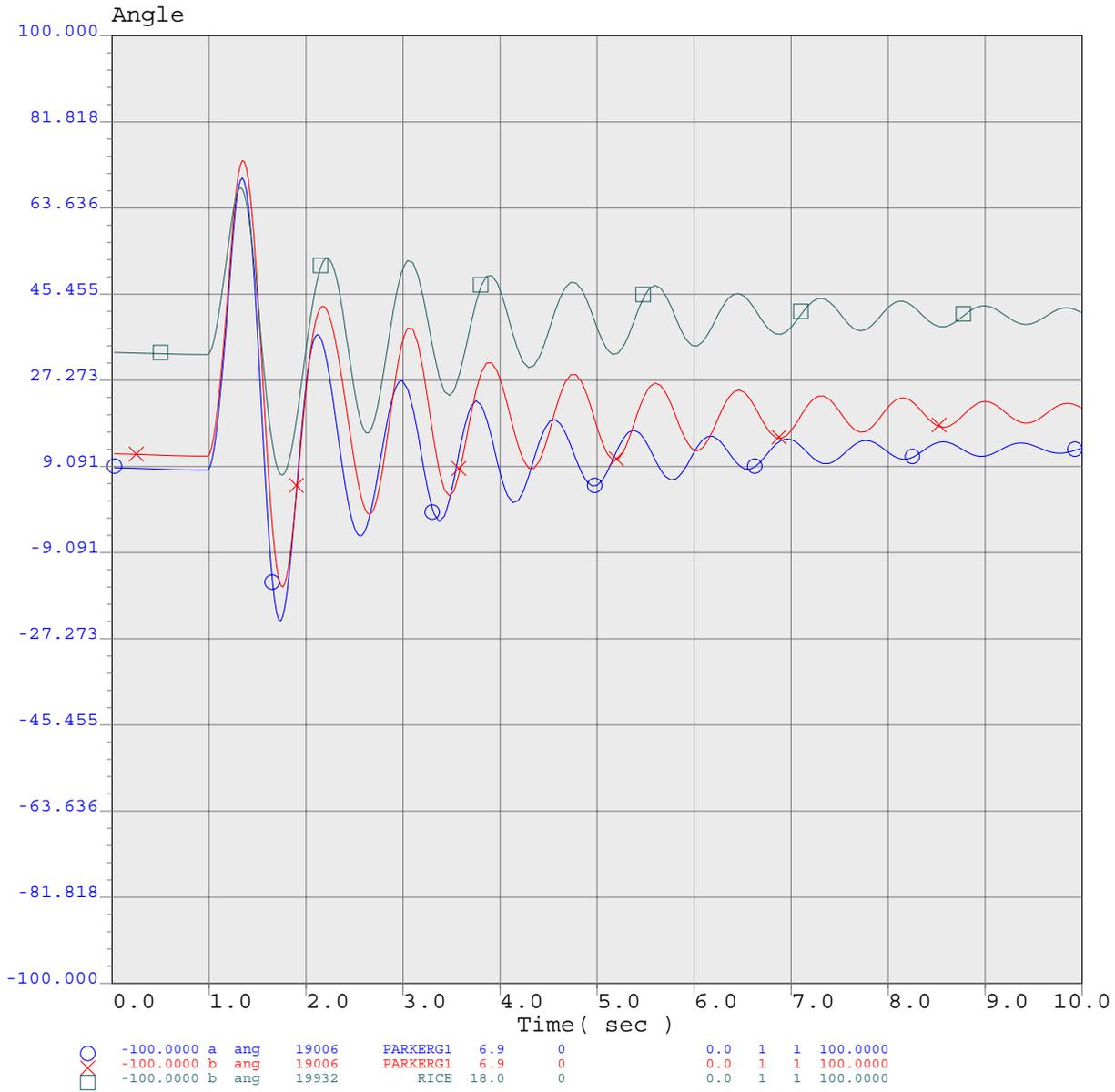


Rice System Impact Study
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Rice System Impact Study

13HS Pre vs. Post-Project with Quartzite On Generator Angle Plots

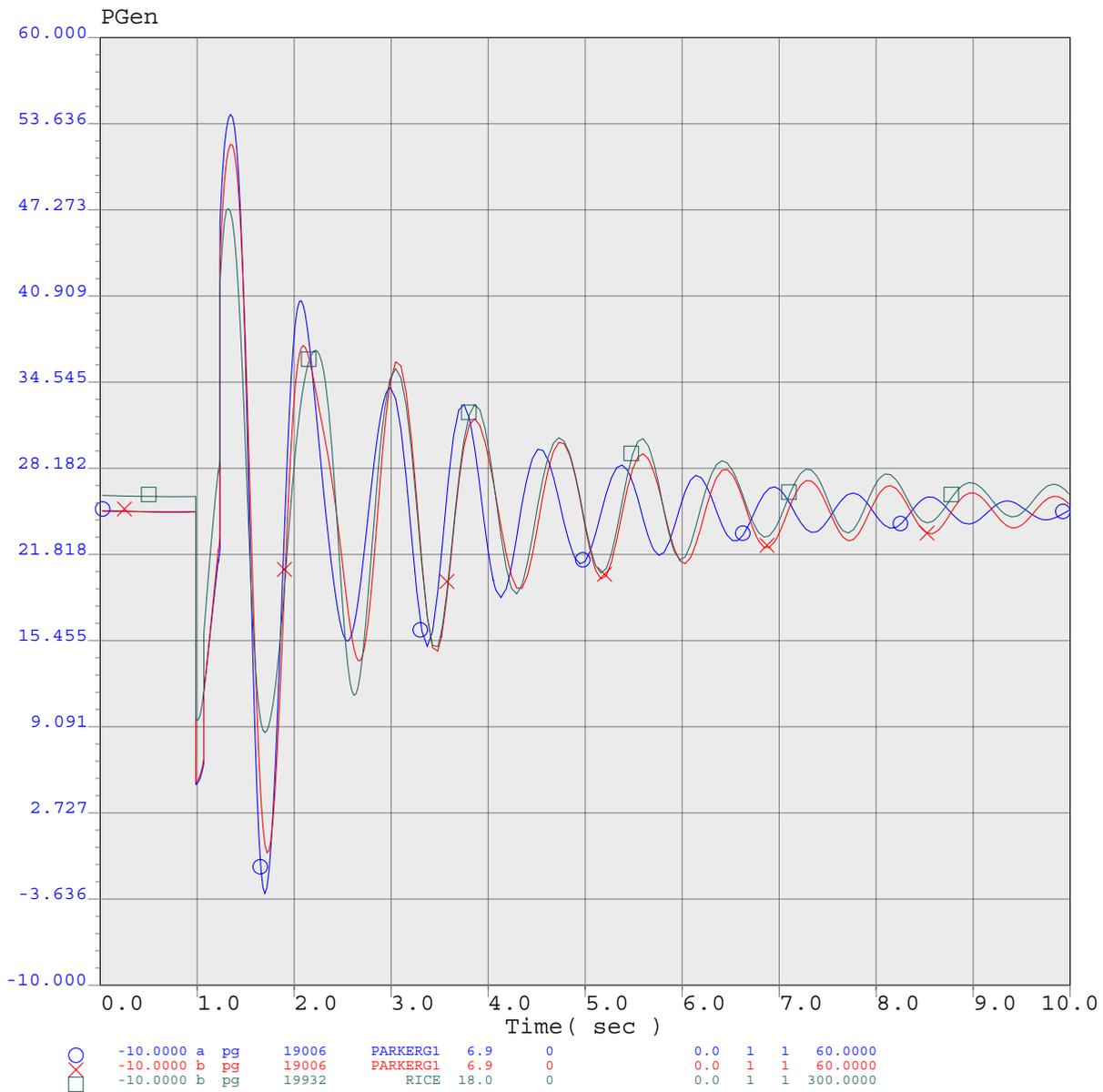


Rice System Impact Study
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13HS Pre vs. Post-Project with Quartzzite On Generator PGen Plots



Rice System Impact Study
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 Breaker Failure PAD1082
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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

**APPLICATION FOR CERTIFICATION
FOR THE RICE SOLAR ENERGY POWER
PLANT PROJECT**

Docket No. 09-AFC-10

**PROOF OF SERVICE
(Revised 8/5/2010)**

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DECLARATION OF SERVICE

I, Marie Mills, declare that on October 12, 2010, I served and filed copies of the attached, **RICE SOLAR ENERGY, LLC'S FULL LOAD REJECTION STABILITY PLOTS, dated July 16, 2010**. 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/ricesolar>].

The documents have 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:

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

by personal delivery;

by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

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. 09-AFC-10
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.



Marie Mills