Response to CEC Staff Data Adequacy Comments

Technical Area: Transmission System Engineering

Following are additional information and/or clarifications in response to the specific issues raised in the CEC staff Data Adequacy review. For each specific area where the AFC was considered inadequate by CEC staff, the applicable section of the CEC Siting Regulations is identified, followed by the "Information Required to Make AFC Conform with Regulations", followed by the supplemental/clarifying information.

TSE-1.1 Appendix B (b) (2) (C).

Information Required:

In reference to the System impact Study (SIS) dated October 16, 2006, please provide the following information:

> Power flow diagrams for identified N-0, N-1 and N-2 overloads, with and without the proposed Victorville 2 for contingencies under 2009 Heavy Summer & 2010 Light Spring conditions.
>
> Electronic copies of *.sav *drw.*.dyd and *.swt GE PSLF files and EPCL contingency files in a CD (if available).

Response:

Power flow diagrams are included at the end of this section for all listed cases. Electronic copies are not currently available from SCE.

TSE-1.2 Appendix B (b) (2) (C).

Information Required:

Provide a detailed one line diagram of the Victorville 2 230kV switchyard showing all equipment and their respective ratings for the generator interconnection with the switchyard. Please include any bus duct connectors or cables, 18kV breakers on the low side, generator step-up transformers, short overhead line or conductors with its configuration, buses, breakers, and disconnect switches on the 230kV side.

Response:

Detail has been added to the one-line diagram of the VV2 230 kV switchyard, as shown in Figure 2-19.

TSE-1.3 Appendix B (b) (2) (C).

Information Required:

For each of the proposed transmission segments please provide a full description consisting of the following: one line diagrams showing pre- and post-project facilities, pole and tower configurations including dimensions, line clearances at circuit crossings, pole and tower locations for transmission line routes, conductor sizes and conductor termination points at substations.

Response:

One-line diagrams for the Victor and Lugo substation upgrades will be made available upon completion of the Facilities Study that is being performed by SCE as part of the CAISO Grid Interconnection process.

The improvements for transmission line Segments 2 and 3 are shown pre-VV2 Project and post-Project in Figures 6.14-7, 6.14-8, and 6.14-9 as part of the original AFC submittal. To amplify this information, typical under crossing clearances along Segment 2 are depicted in Figure
2-20. Additional information showing the 115 kV Replacement Pole configuration along Segment 3 is provided in Figure 2-21. Figure 2-22 provides information on poles of the type that will be used in Segment 1.

Figure 2-23 provides a plan view showing the pole locations for Segment 1, while Figure 2-24 shows the under crossing tower locations in Segment 2. The Project's 230-kV towers in Segment 3 will be installed in locations parallel and to and at the same spacing as the existing 230-kV towers in an adjacent portion of the same SCE ROW. Conductor sizes were included in Table 6.14-7 as part of the original AFC submittal.

TSE-2. Appendix B (h) (4).

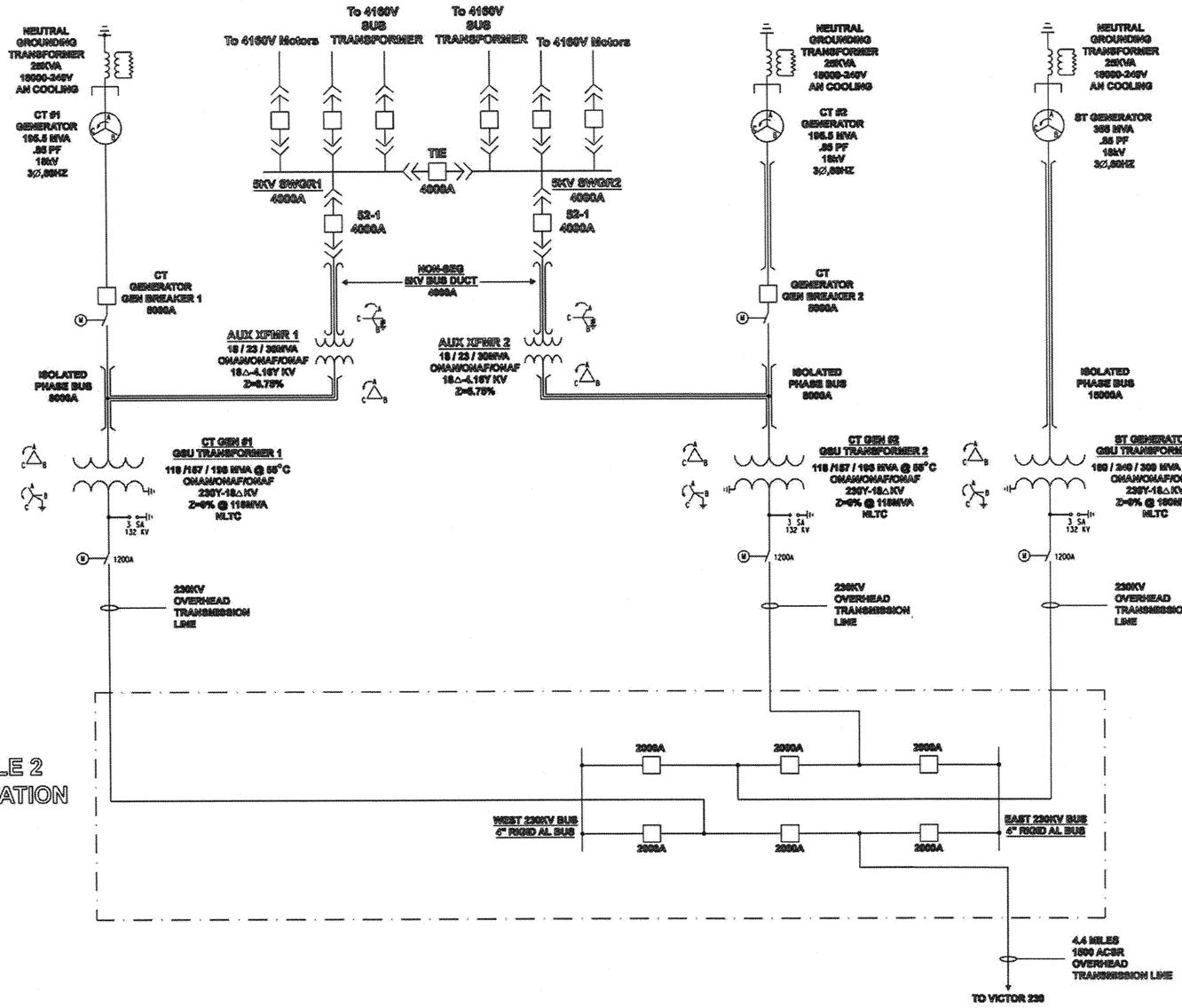
Information Required:

Please provide the expected dates for the CA ISO preliminary and final approvals.

Response:

Interconnection approval dates were obtained from SCE and CAISO. The SCE Facilities Study is expected to be completed on July 1, 2007 with a preliminary CAISO Interconnection Approval on August 1, 2007 and final approval on September 1, 2007.

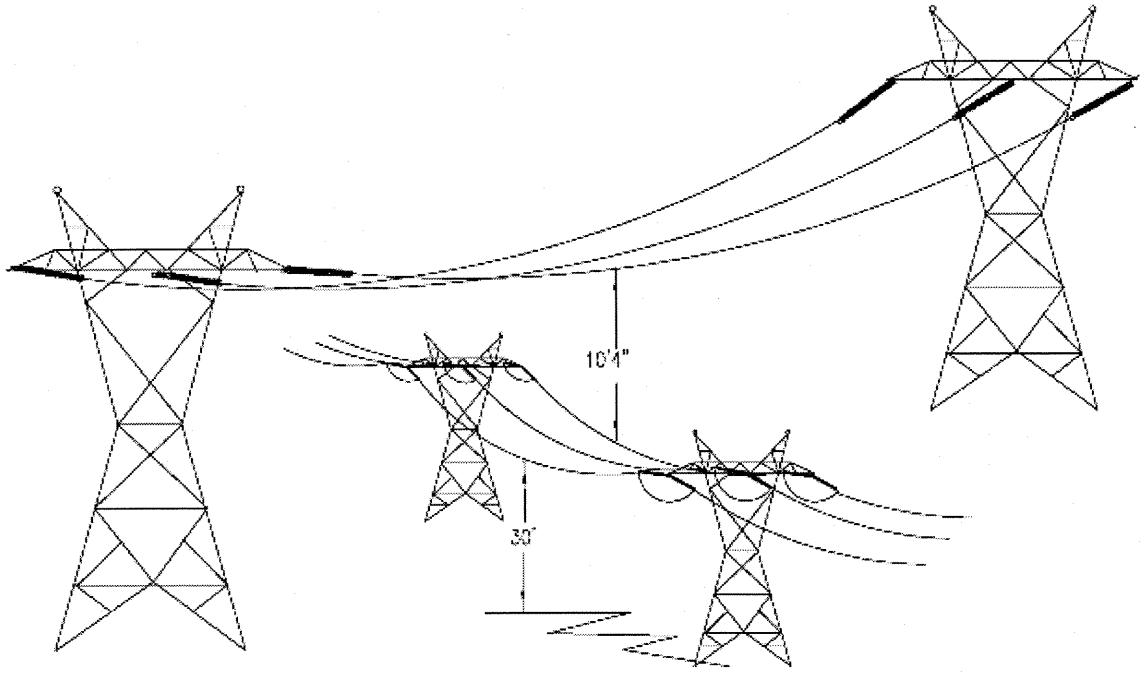
*** CONCEPTUAL DESIGN ***
SUBJECT TO CHANGE



LEGENDS

- 5KV NON-SEG BUS DUCT
- 18KV ISOLATED PHASE BUS
- SURGE ARRESTOR
- DRAWOUT 5 KV CIRCUIT BKR
- MOTOR OPERATED DISCONNECT SW

Interconnection One Line Diagram (Revised)
Victorville 2 Hybrid Power Project
Figure 2-19
Date: April 2007



Locus Map

Victorville 2 Project Segment 2
Typical Minimum Undercrossing Measurements

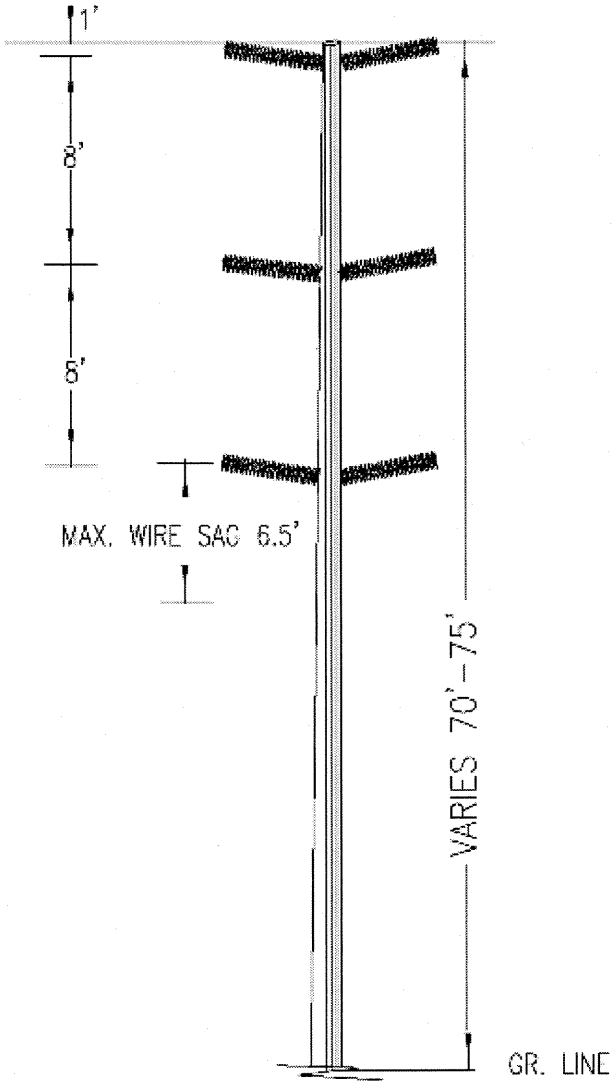
Inland Energy, Inc.

ENSR | AECOM

Figure: 2-20

Date: April 2007

Y:\Projects\InlandEnergy\Victorville\MXD\Data_Adequacy_Response_2007_03_29\Figure_2-20.mxd



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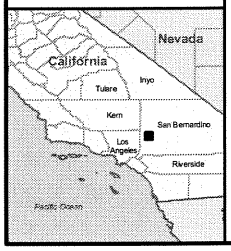
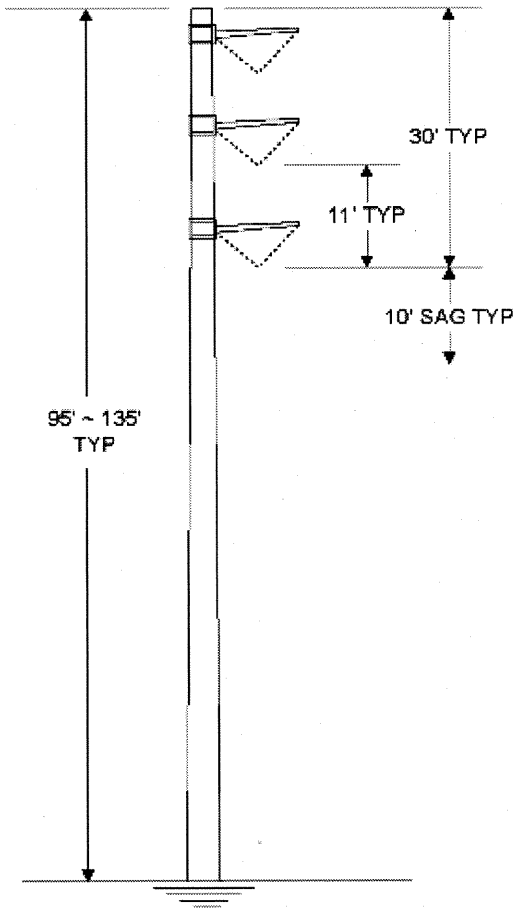


Victorville 2 Project Segment 3
Typical 115 kV Replacement Polehead

Inland Energy, Inc.
ENSR | AECOM

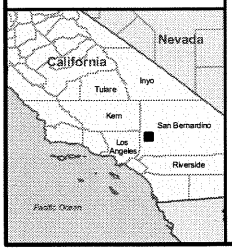
Figure: 2-21
Date: April 2007

V:\Projects\InlandEnergy\Victorville\MXD\Data_Adequacy_Response_2007_01_29\Figure_2-21.mxd



TYPICAL 230 kV STEEL POLE SEGMENT 1

Locus Map



Victorville 2 Project Segment 1
230 kV Pole - Typical

Inland Energy, Inc.
ENSR | AECOM

Figure: 2-22
Date: April 2007

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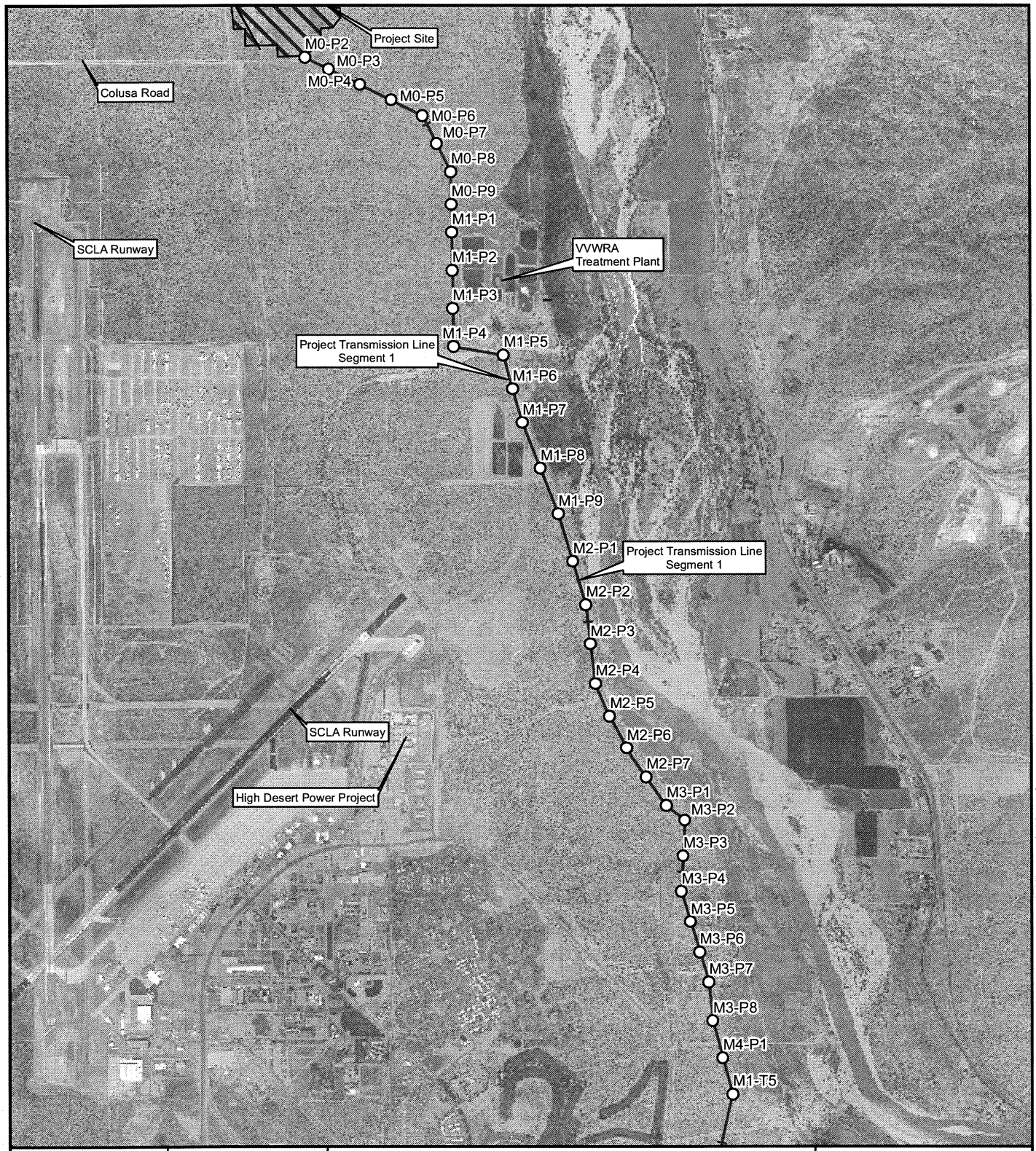

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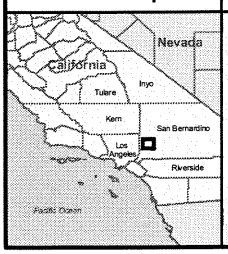
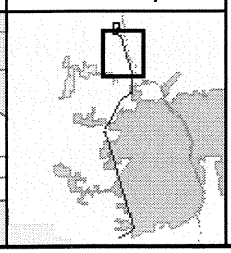


Index Map



VV2 Segment 1 Pole Locations
Victorville 2 Hybrid Power Project

N
S

0 1,000 2,000 3,000 4,000 5,000 6,000 Feet

Inland Energy, Inc.

ENSR | AECOM

Figure: 2-23

Date: April 2007

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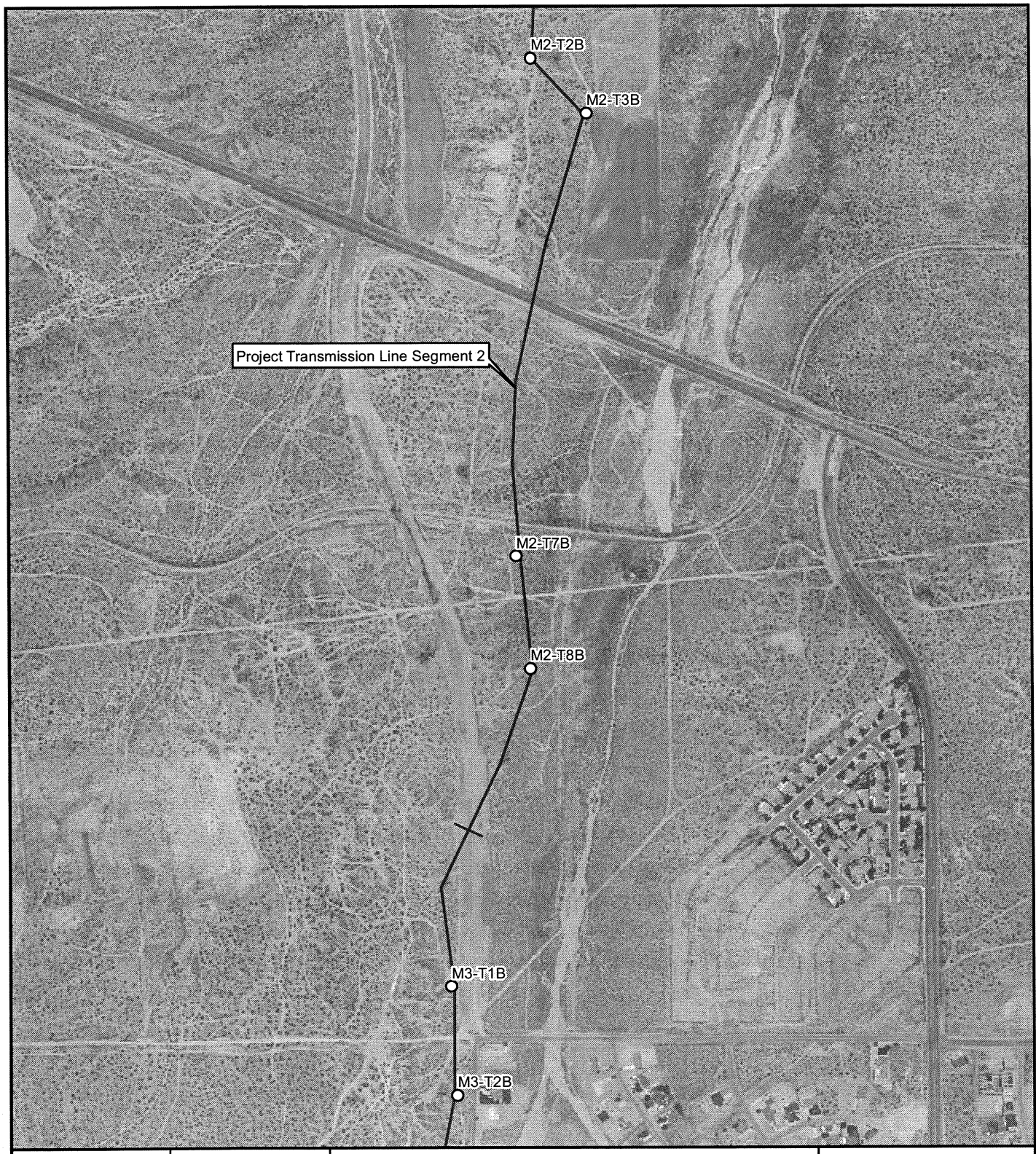
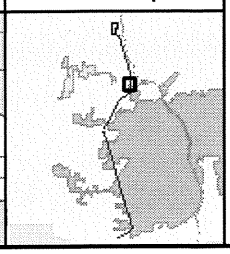


Locus Map

Index Map



VV2 Segment 2 Under Crossing Tower Locations
Victorville 2 Hybrid Power Project

N
S

0 500 1,000 1,500 2,000 Feet

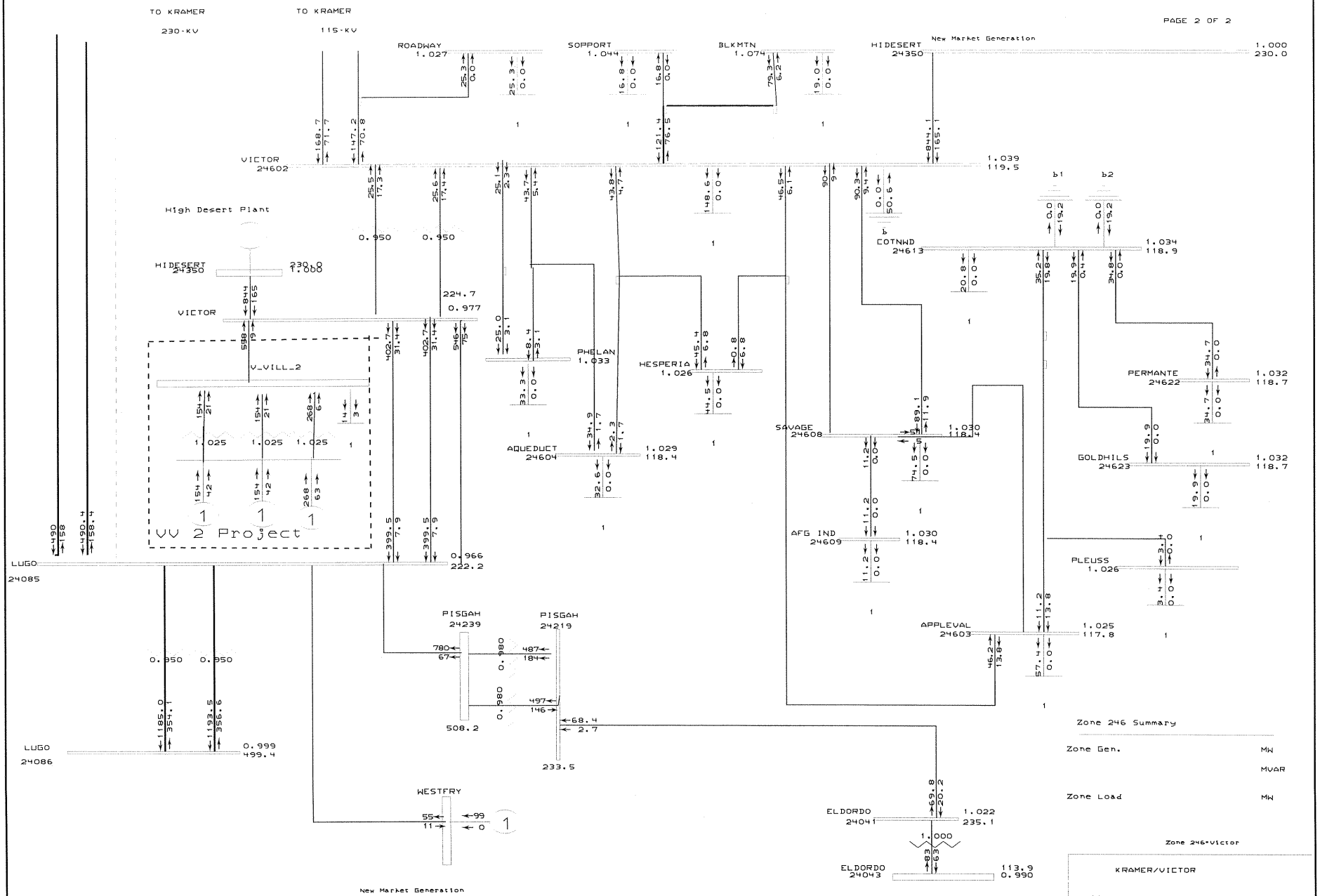
Inland Energy, Inc.

ENSR | AECOM

Figure: 2-24

Date: April 2007

Y:\Projects\InlandEnergy\Victorville\MXD\Data_Adequacy_Response_2007_03_29\Figure_2-24.mxd



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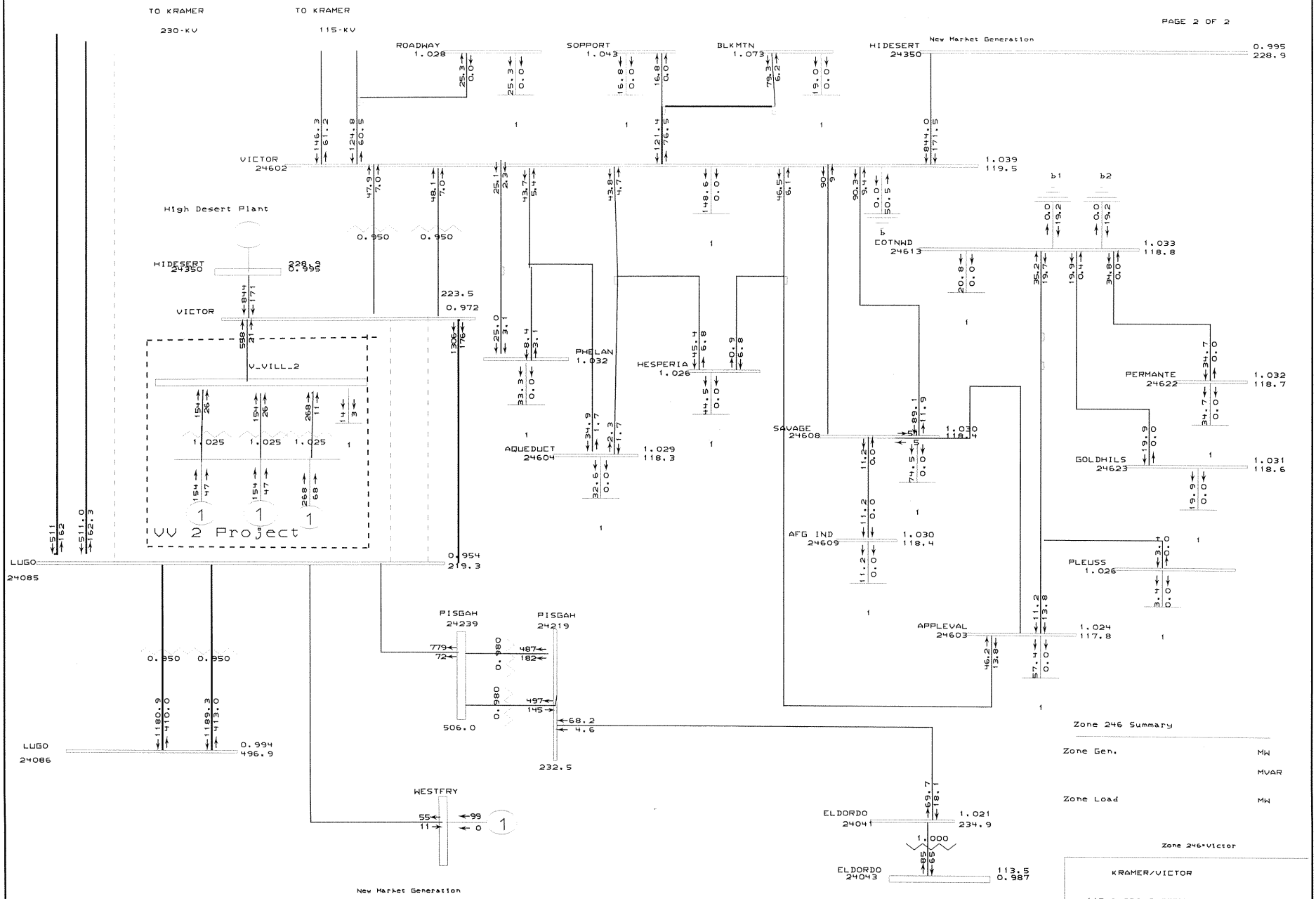

VICTORVILLE 2 PROJECT STUDIES
2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD)
218 VICTOR 230.00 - LUGO 230.00 1, VICTOR 230.00 - LUGO 230.00 2

WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE

PSLF Program
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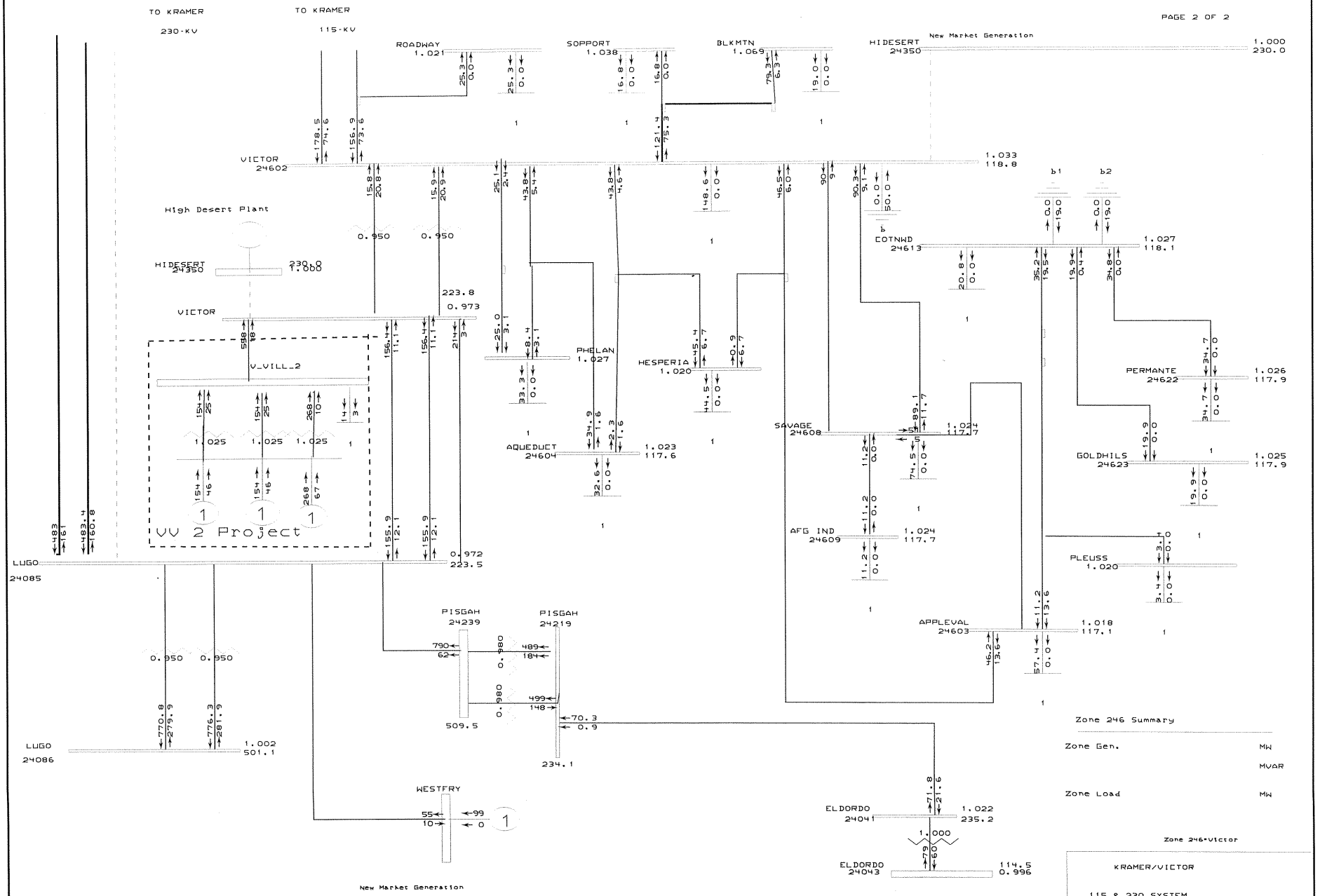

vv-2-2009HS-post.sav

MW/MVAR

Tue Apr 03 15:14:49 2007

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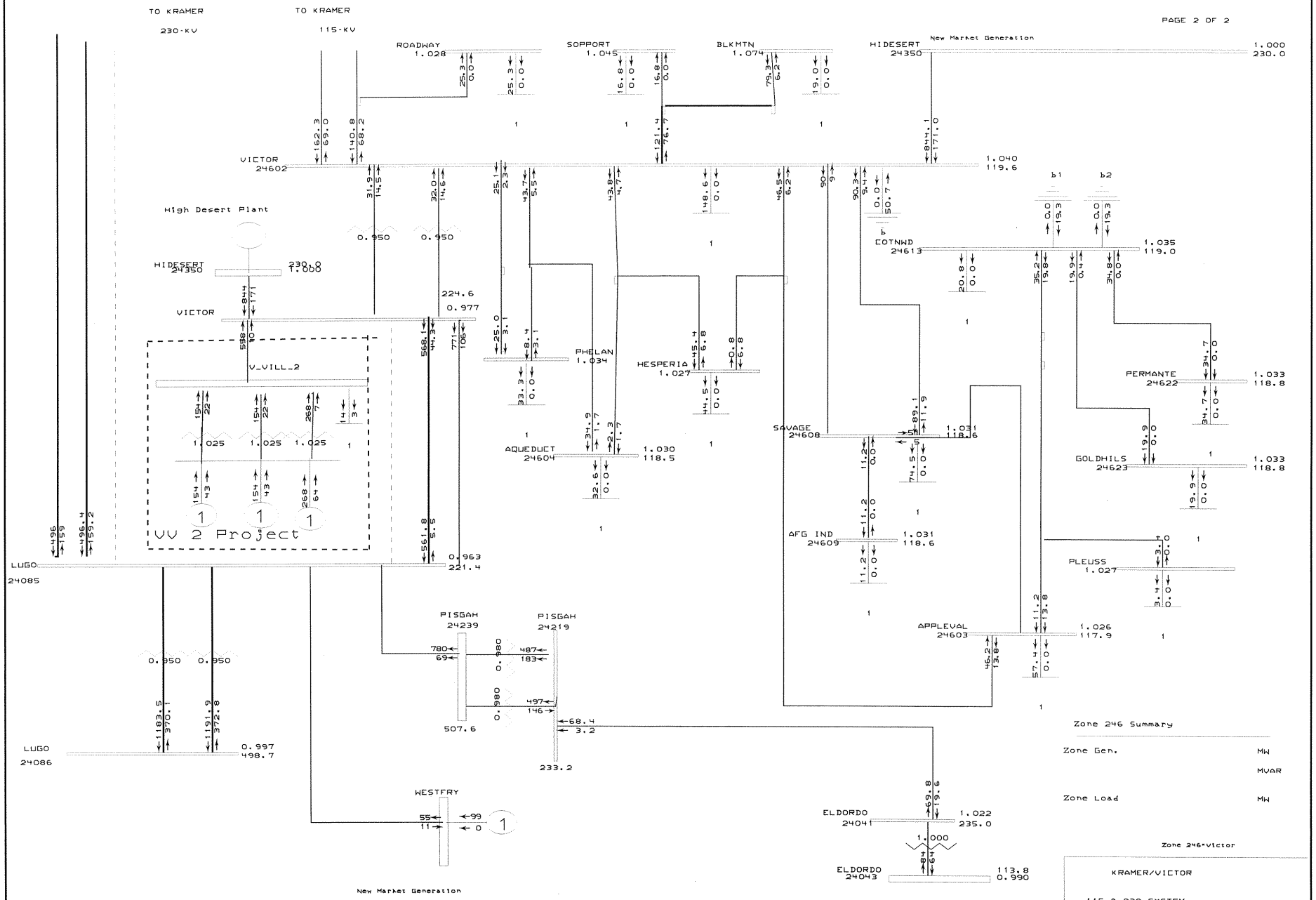

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MW/MVAR

Tue Apr 03 15:14:52 2007

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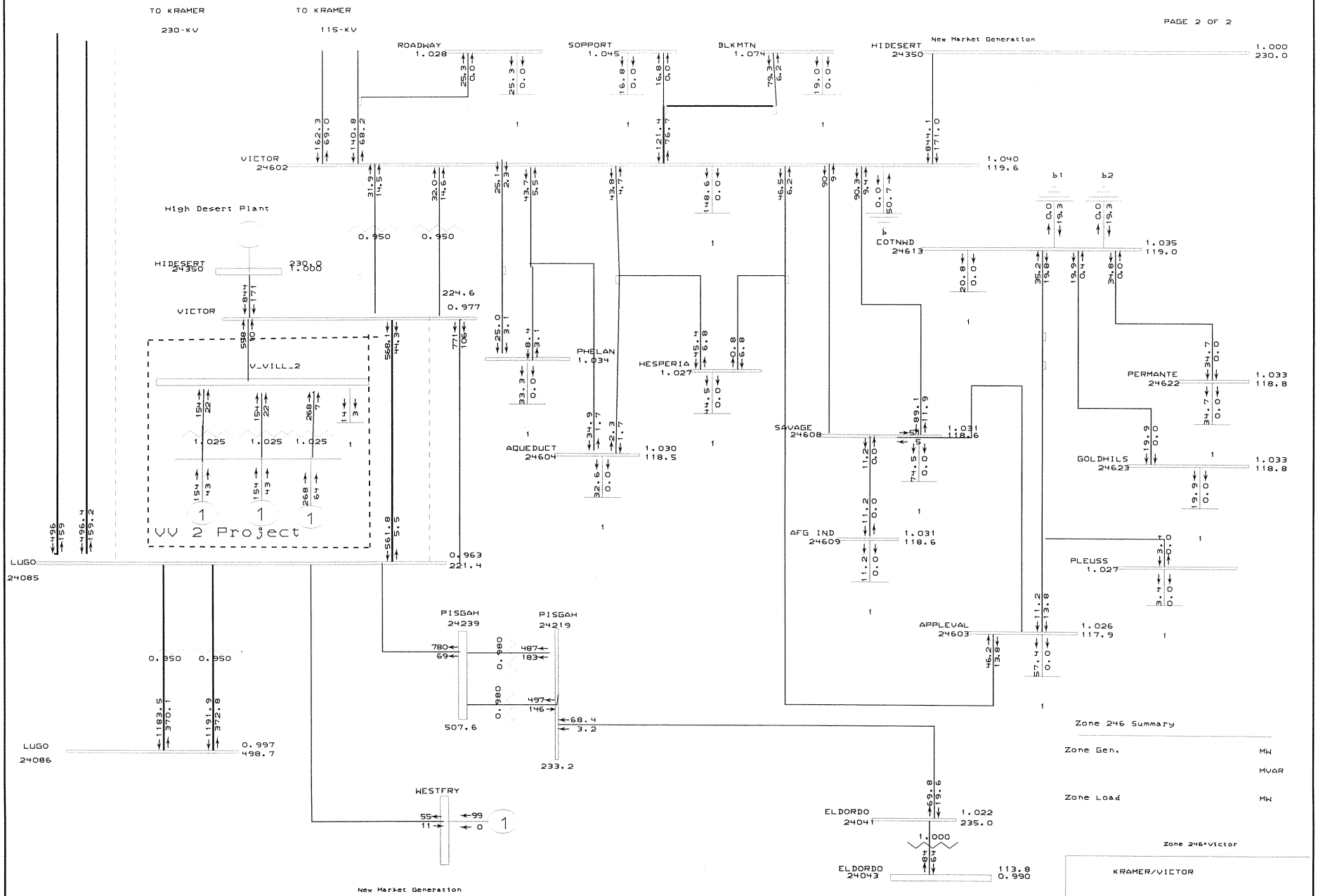

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MW/MVAR

Tue Apr 03 15:14:54 2007

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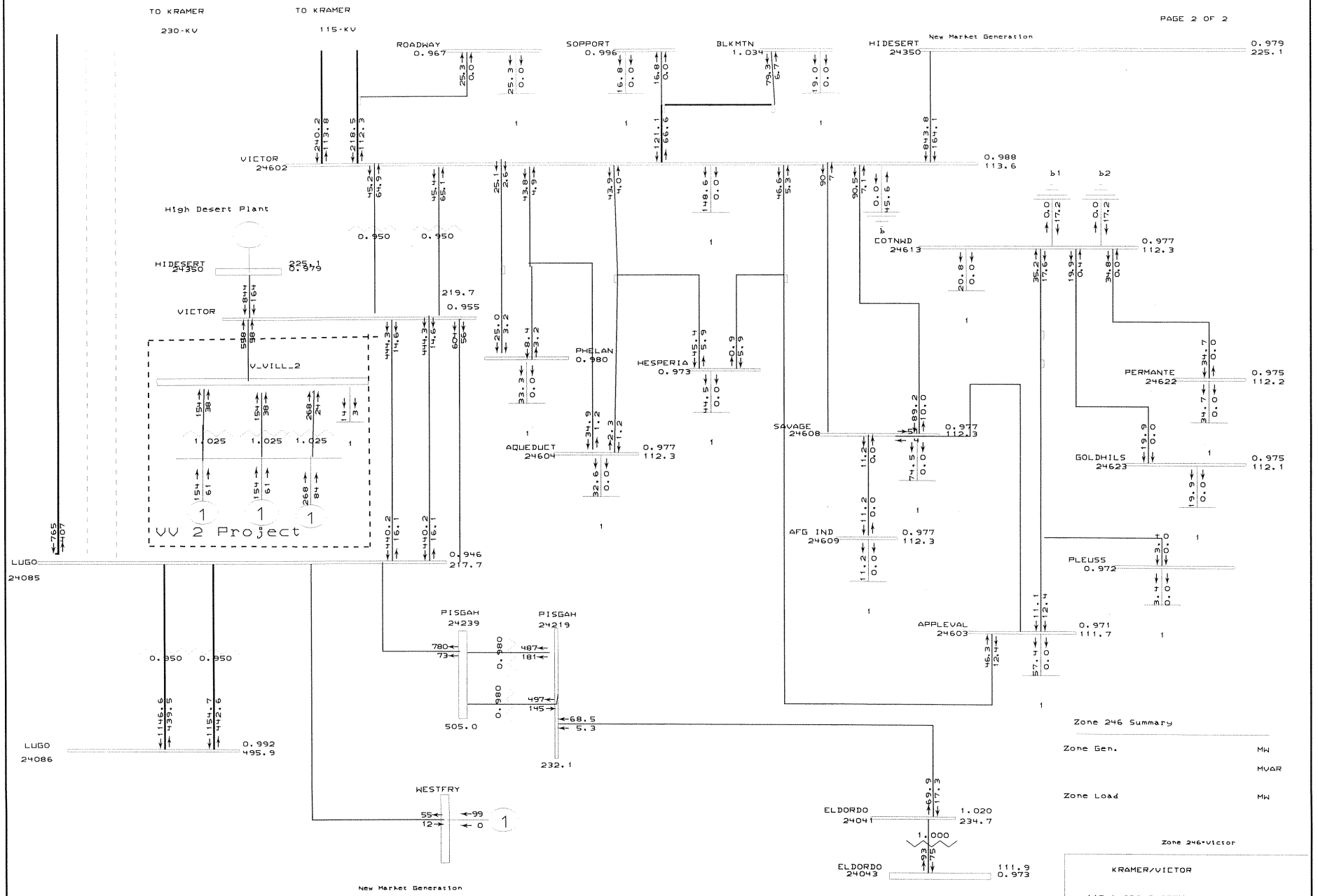

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MW/MVAR

Tue Apr 03 15:15:26 2007

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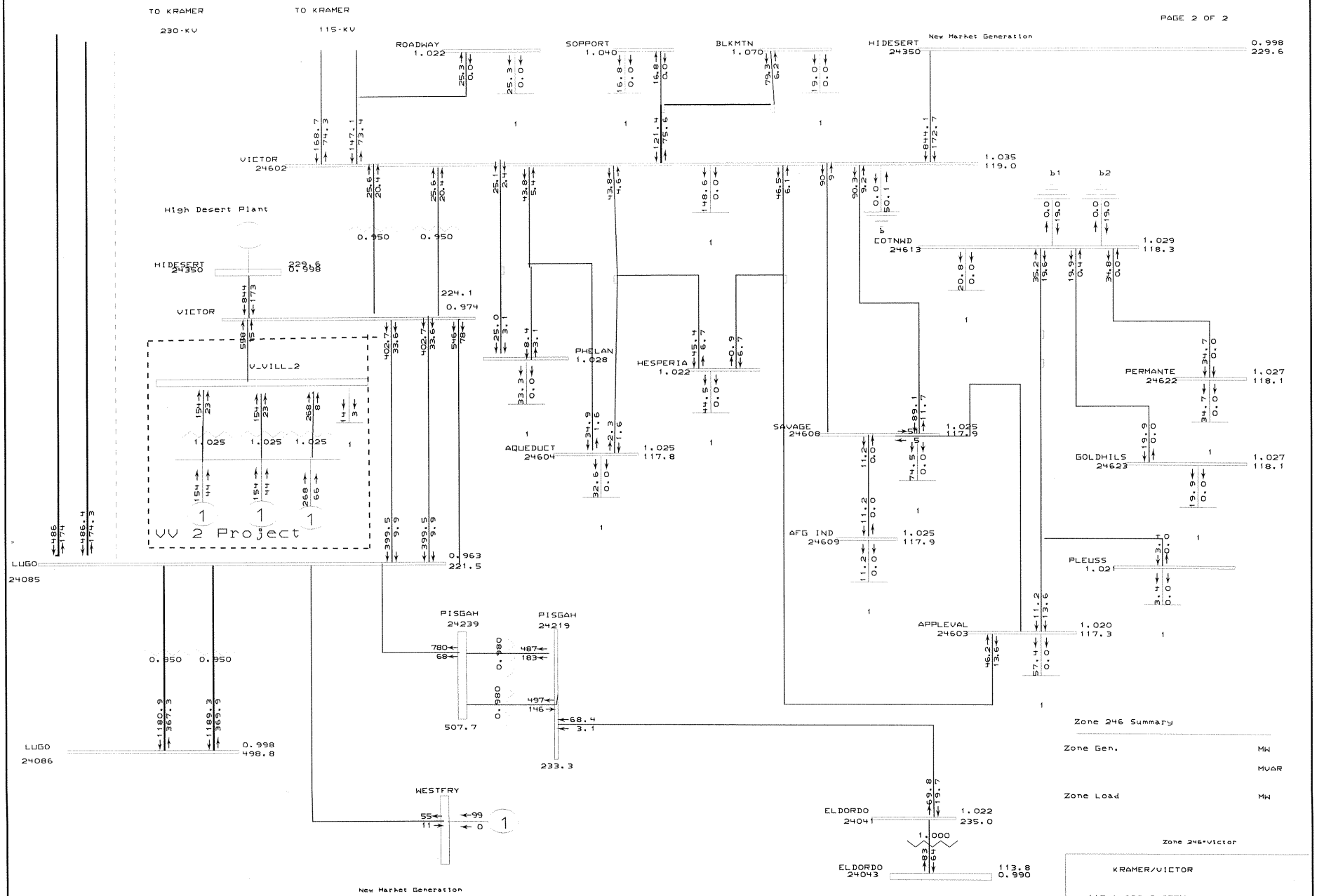

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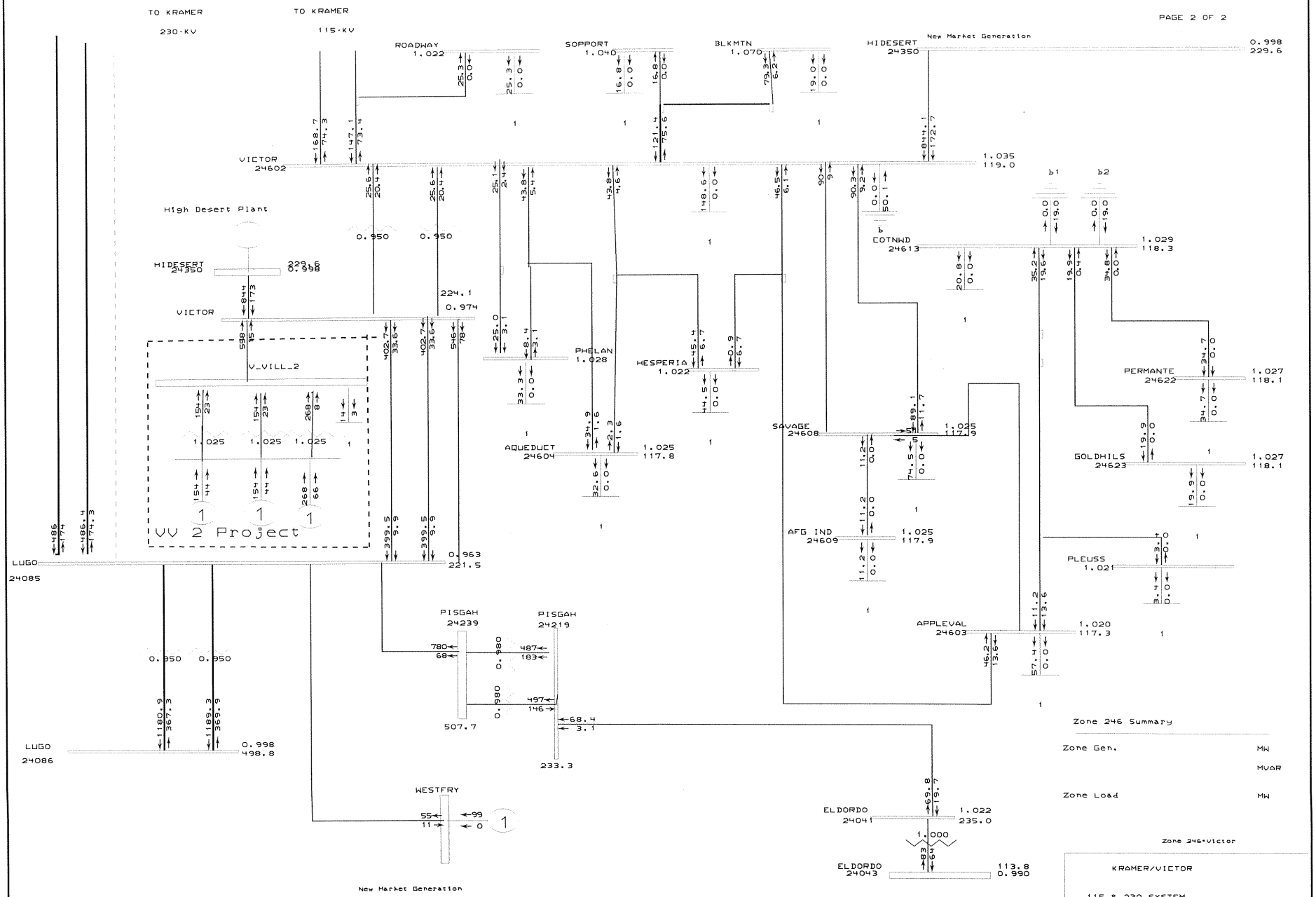

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MW/MVAR

Tue Apr 03 15:15:31 2007

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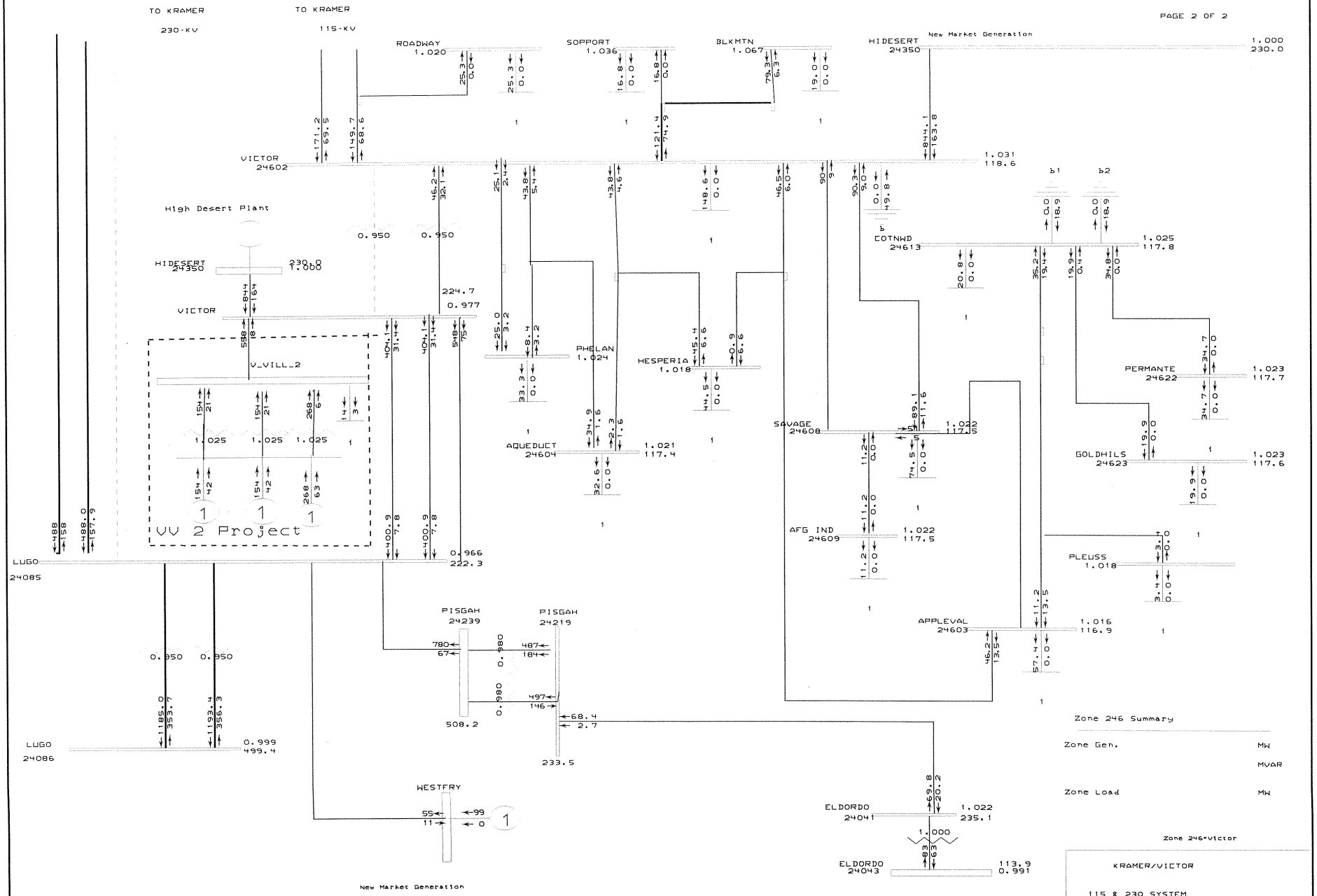

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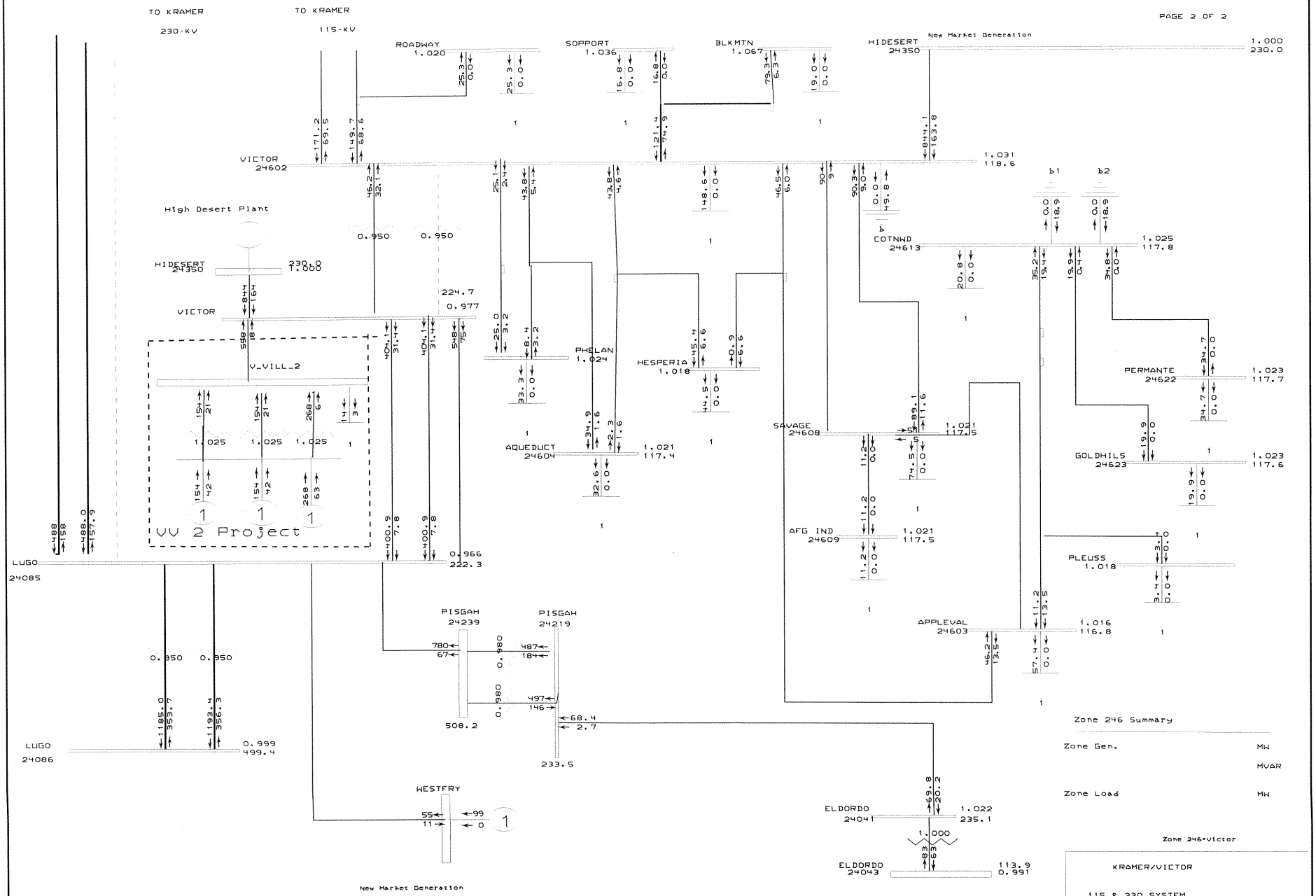

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MW/MVAR

Tue Apr 03 15:16:45 2007

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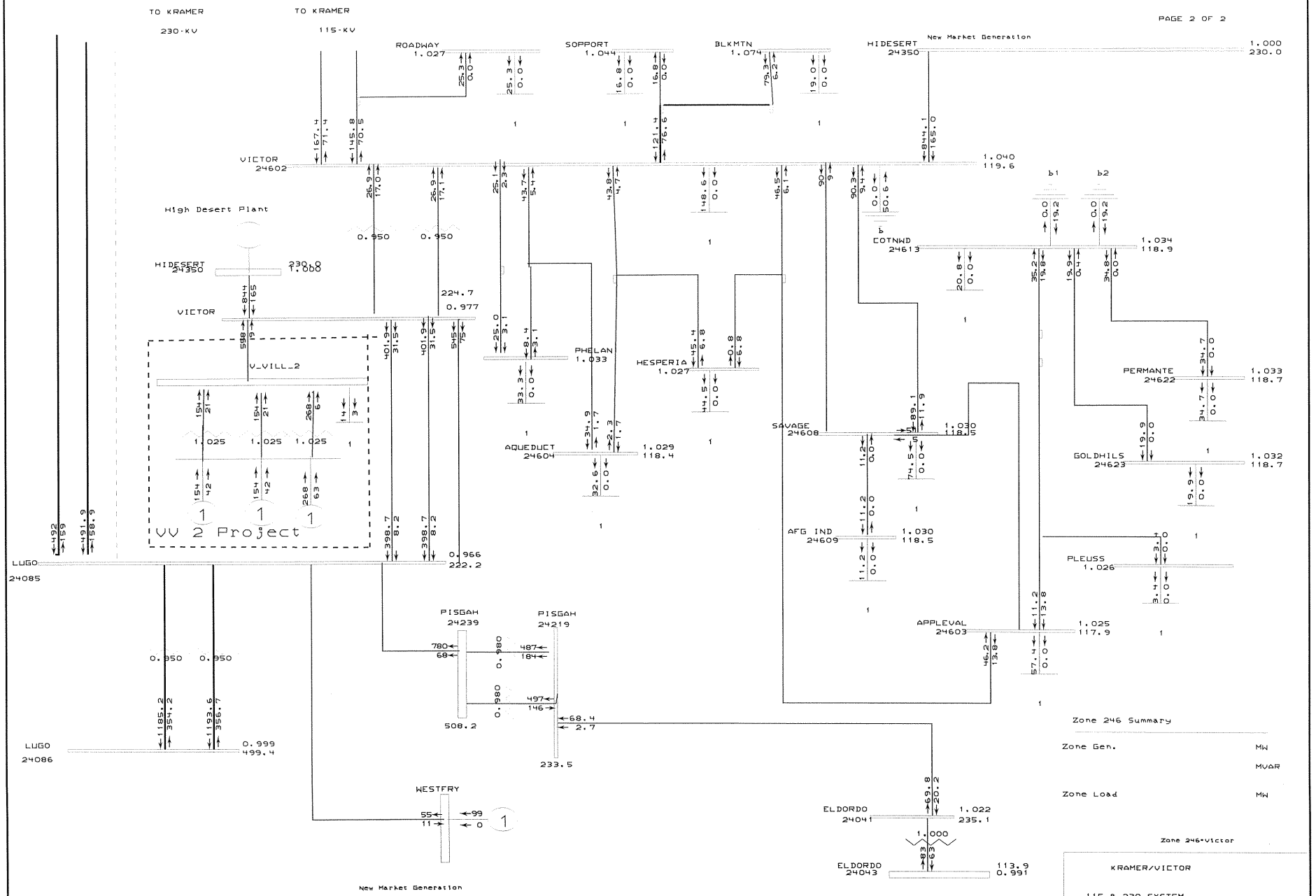

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MW/MVAR

Tue Apr 03 15:16:47 2007

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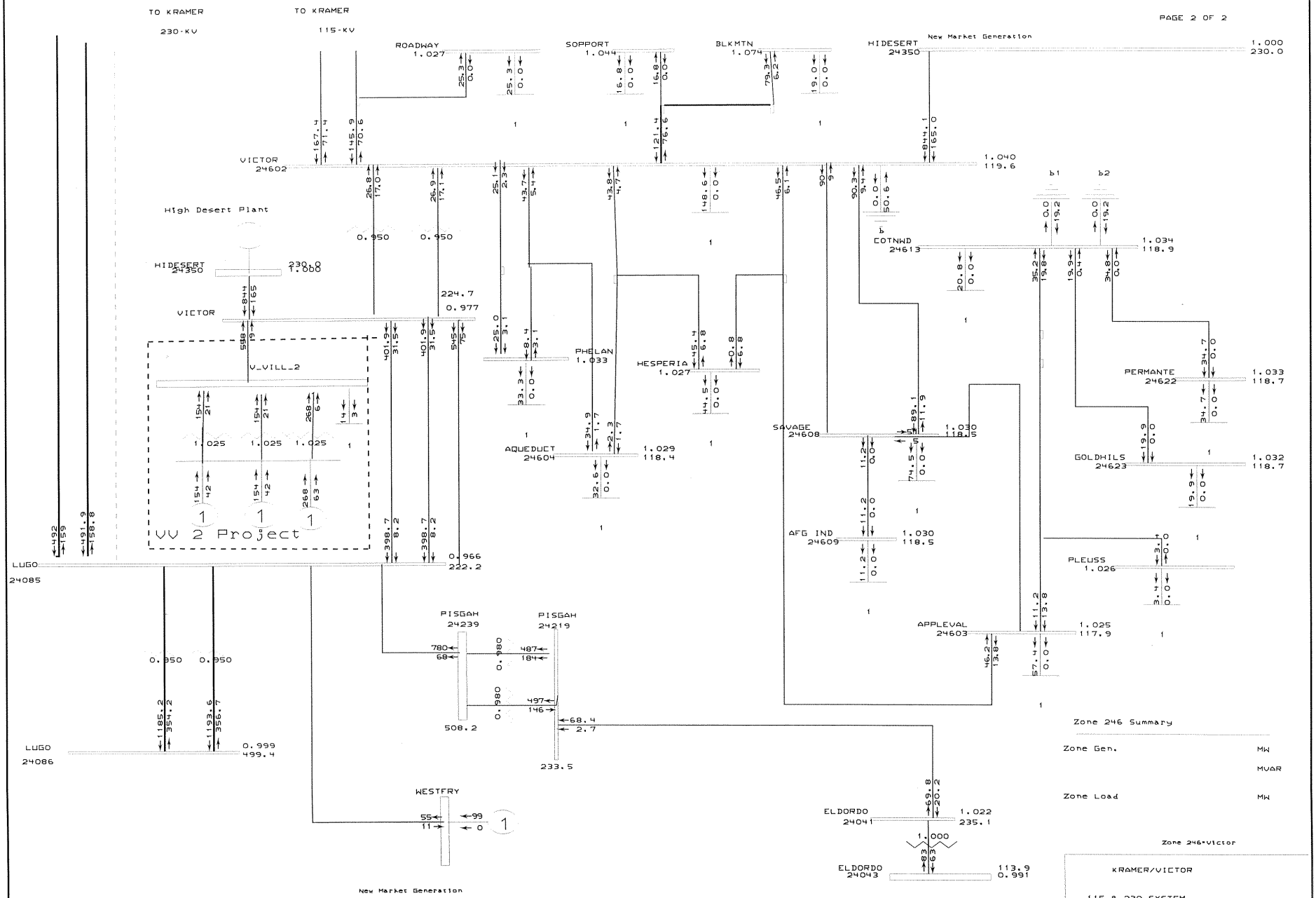

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MW/MVAR

Tue Apr 03 15:16:50 2007

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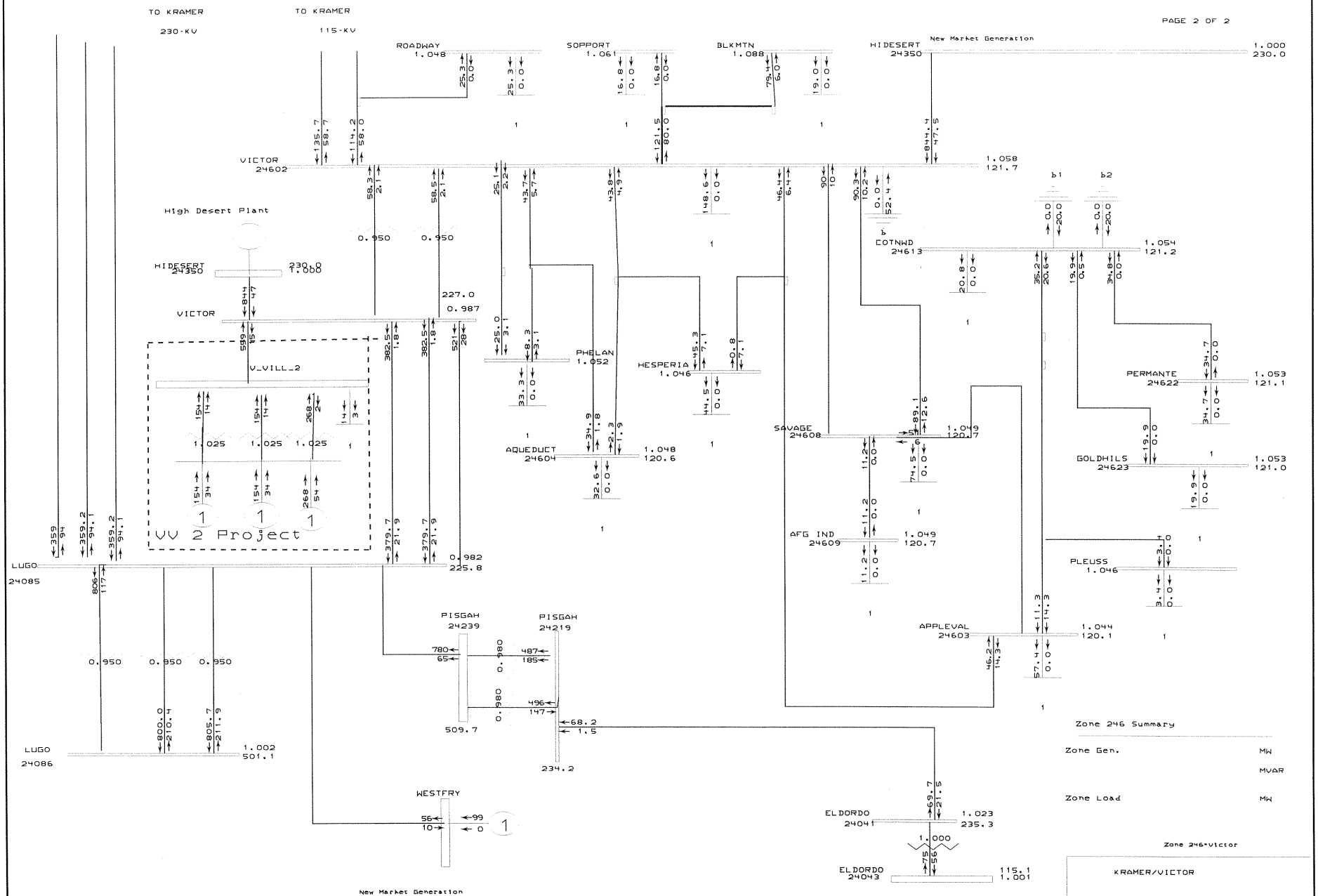

vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:22:55 2007

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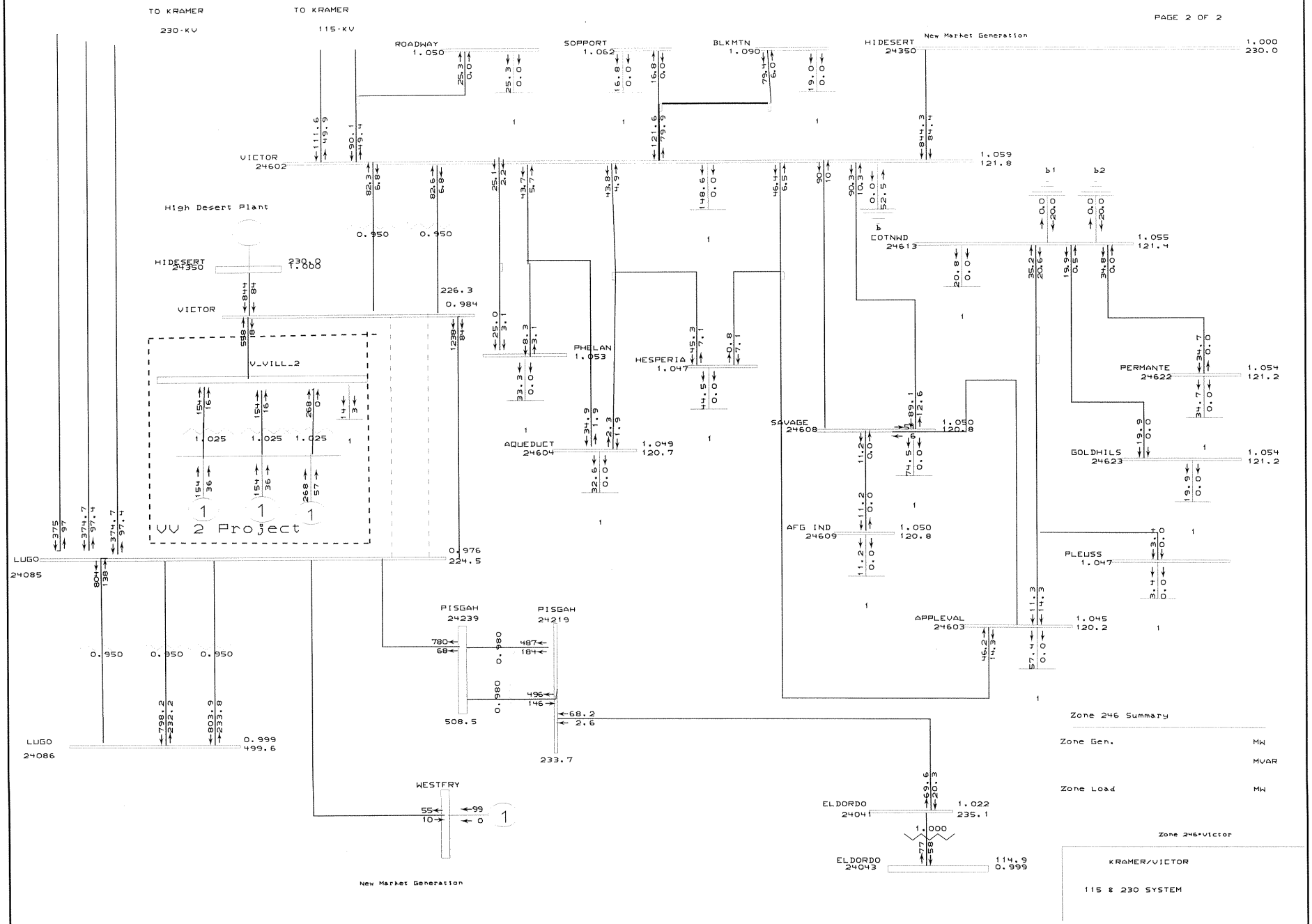

vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:27:03 2007

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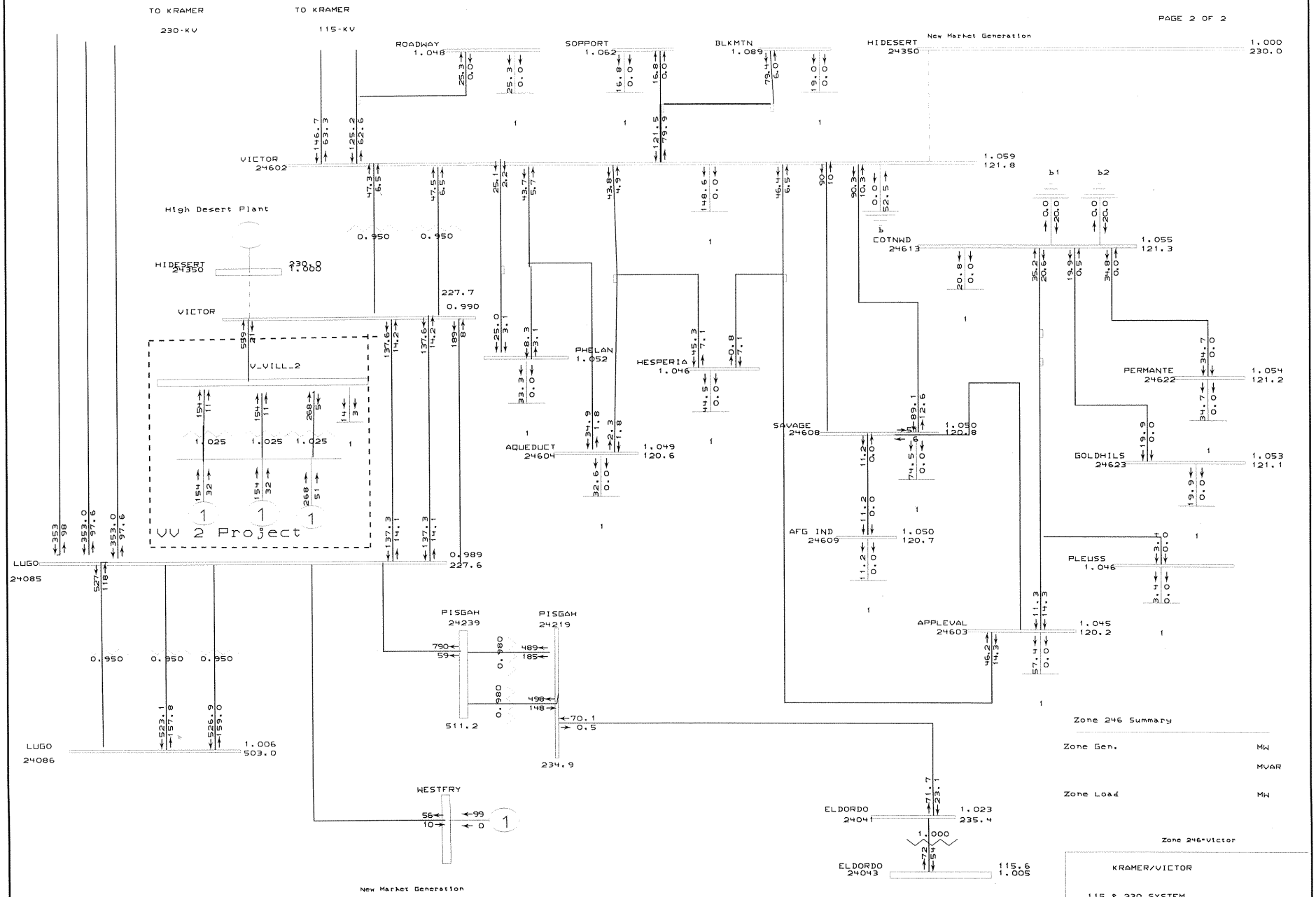

vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:22:59 2007

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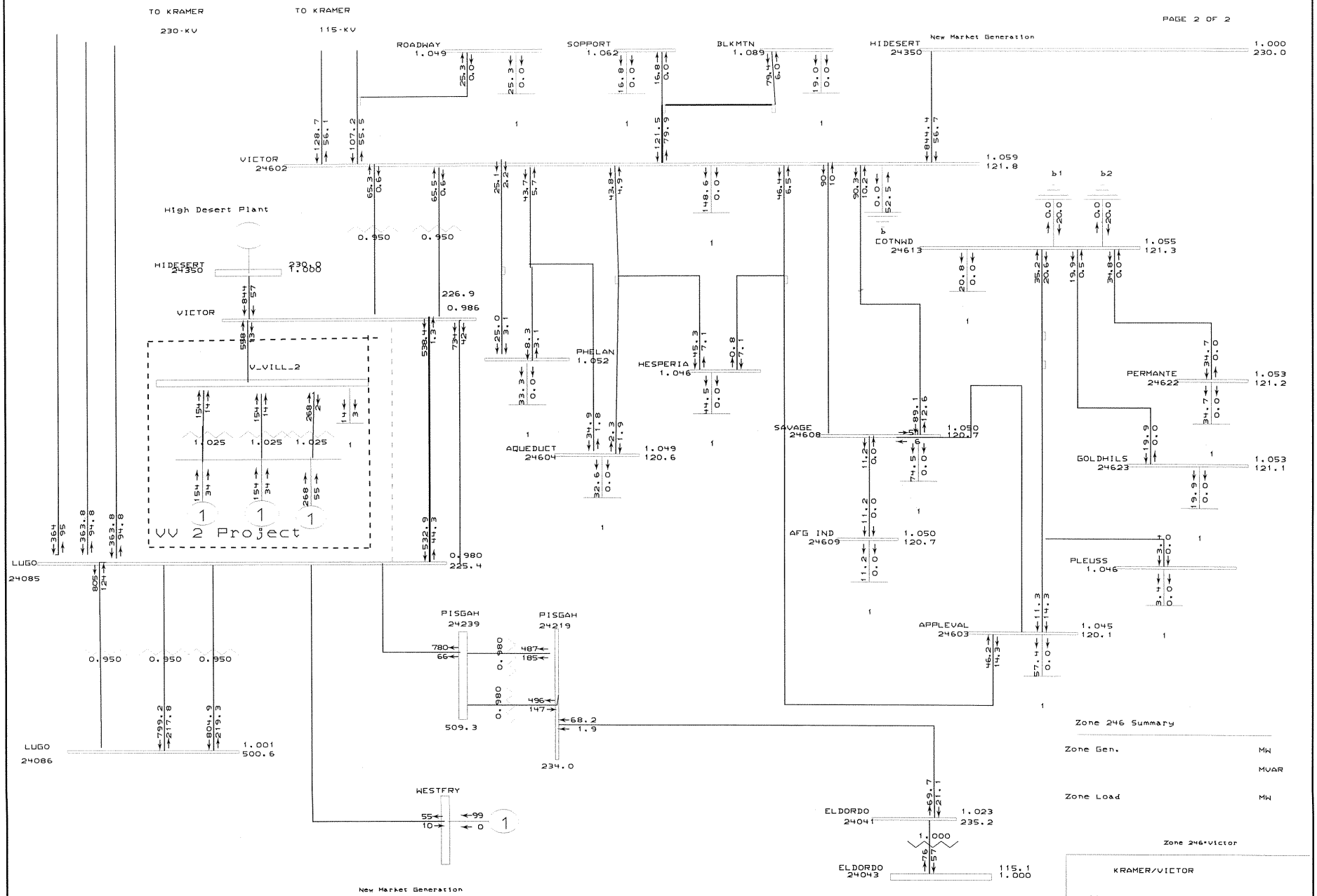

vv-2-2009hs-post-allupgrades.sav MW/MVAR Tue Apr 03 15:23:01 2007

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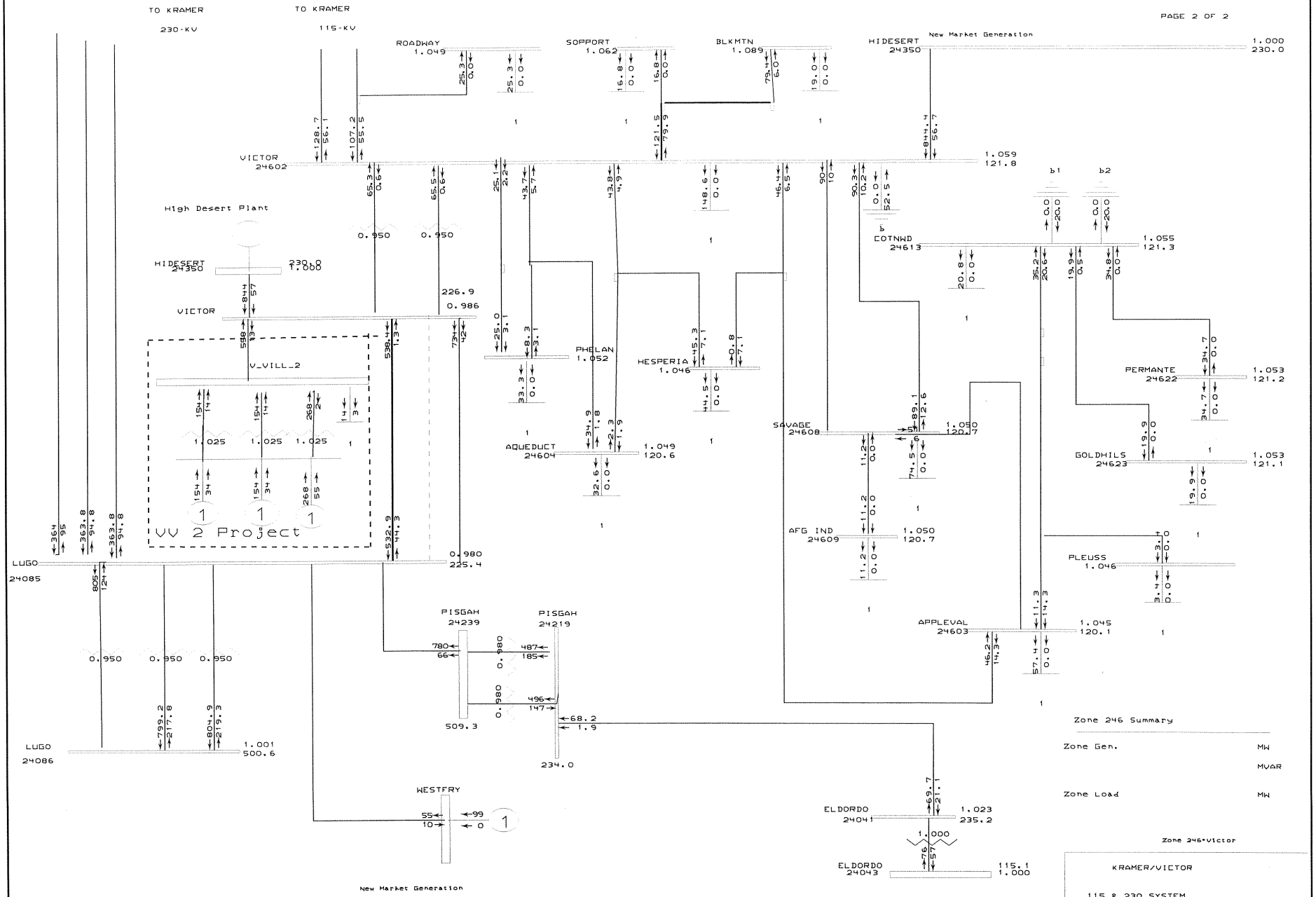

vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:23:04 2007

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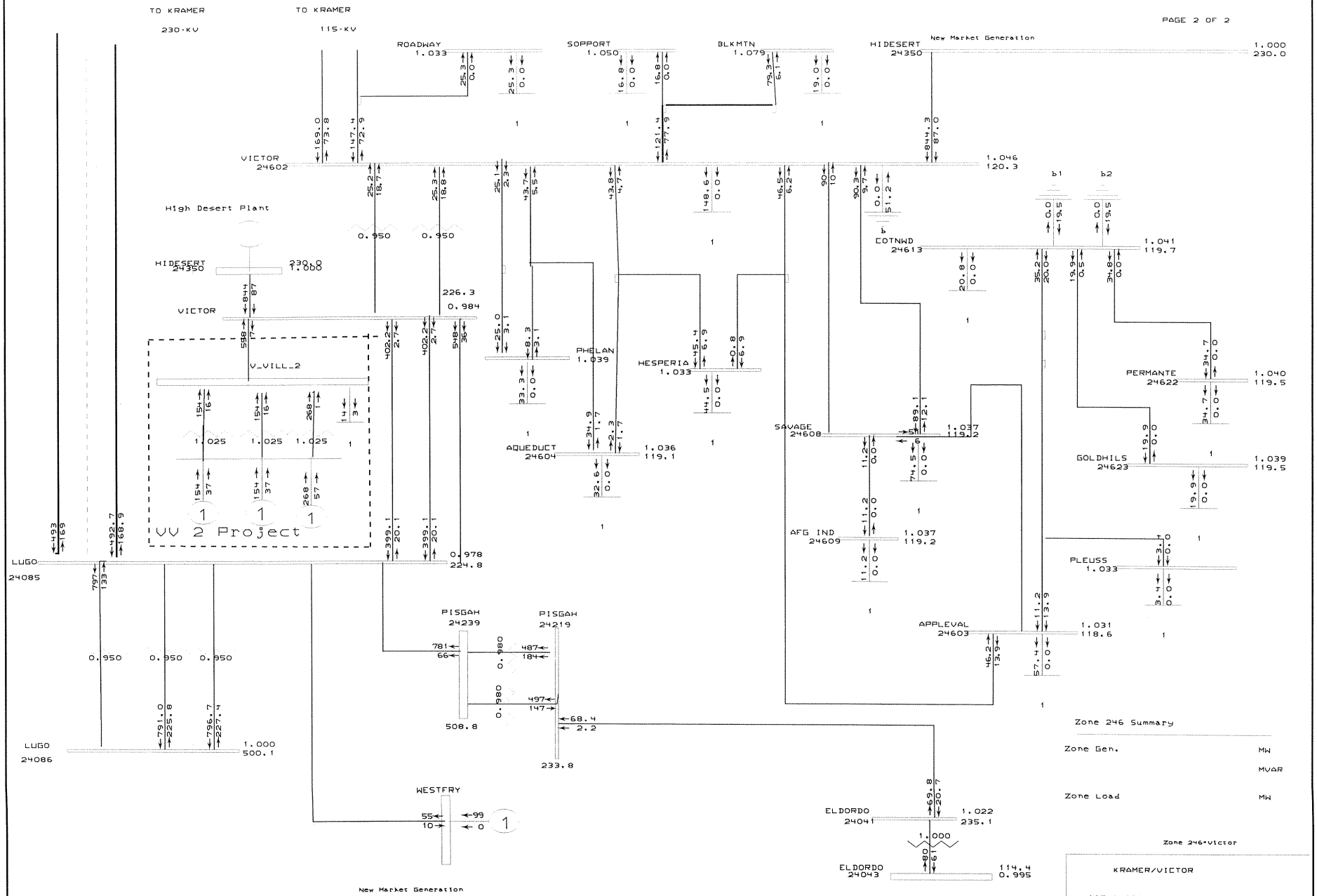

vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:23:43 2007

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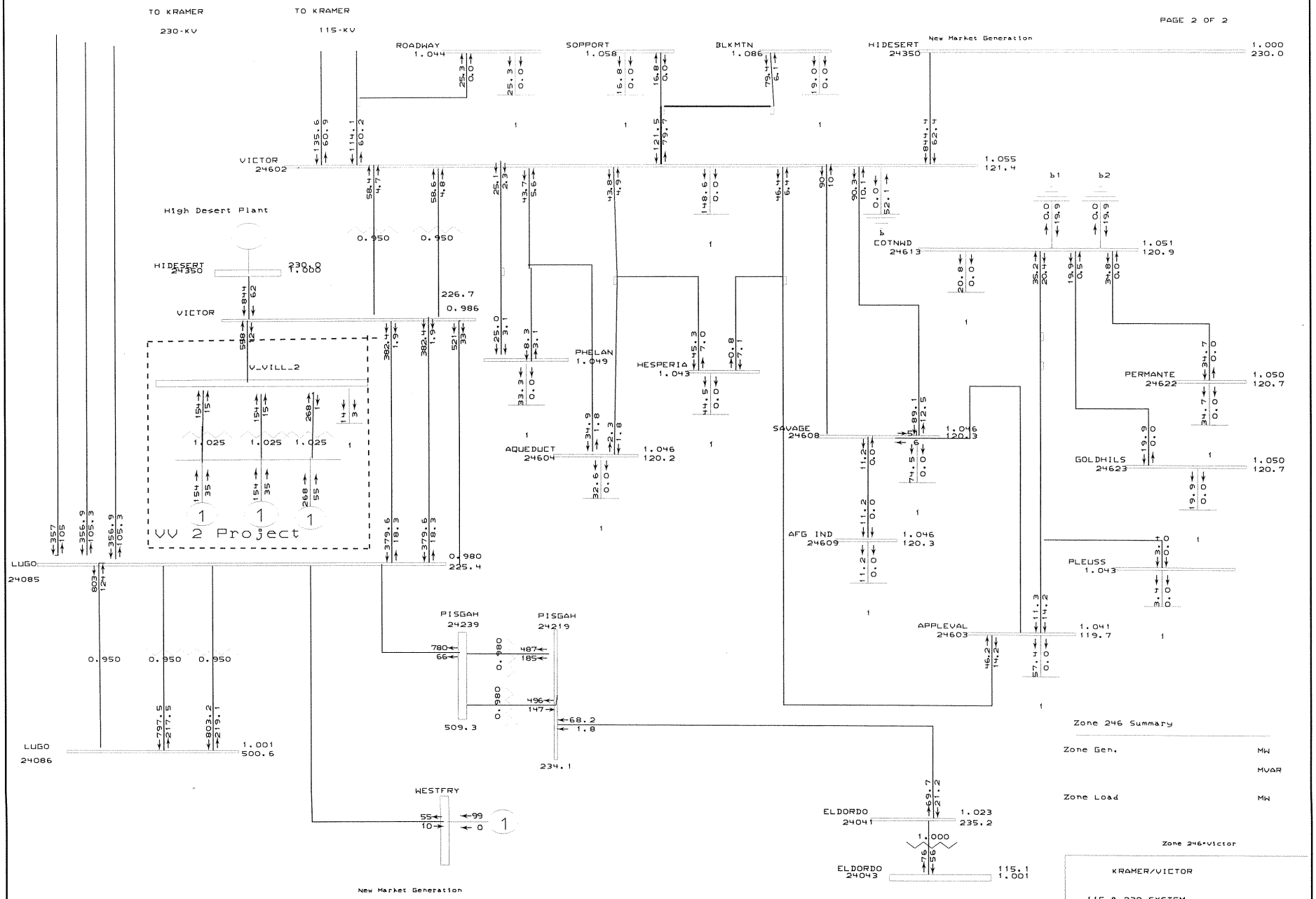

vv-2-2009hs-post-allupgrades.sav MW/MVAR Tue Apr 03 15:23:46 2007

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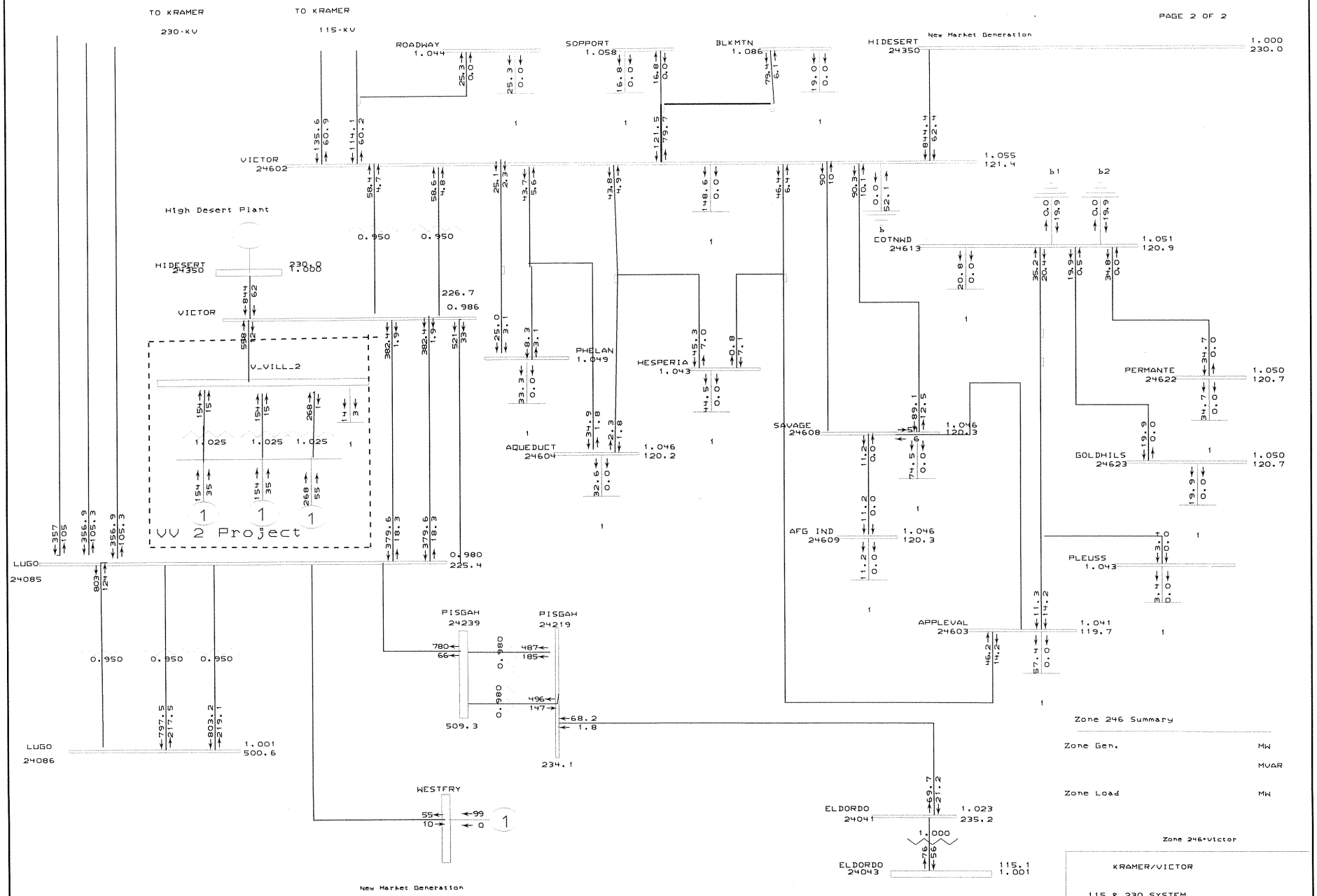
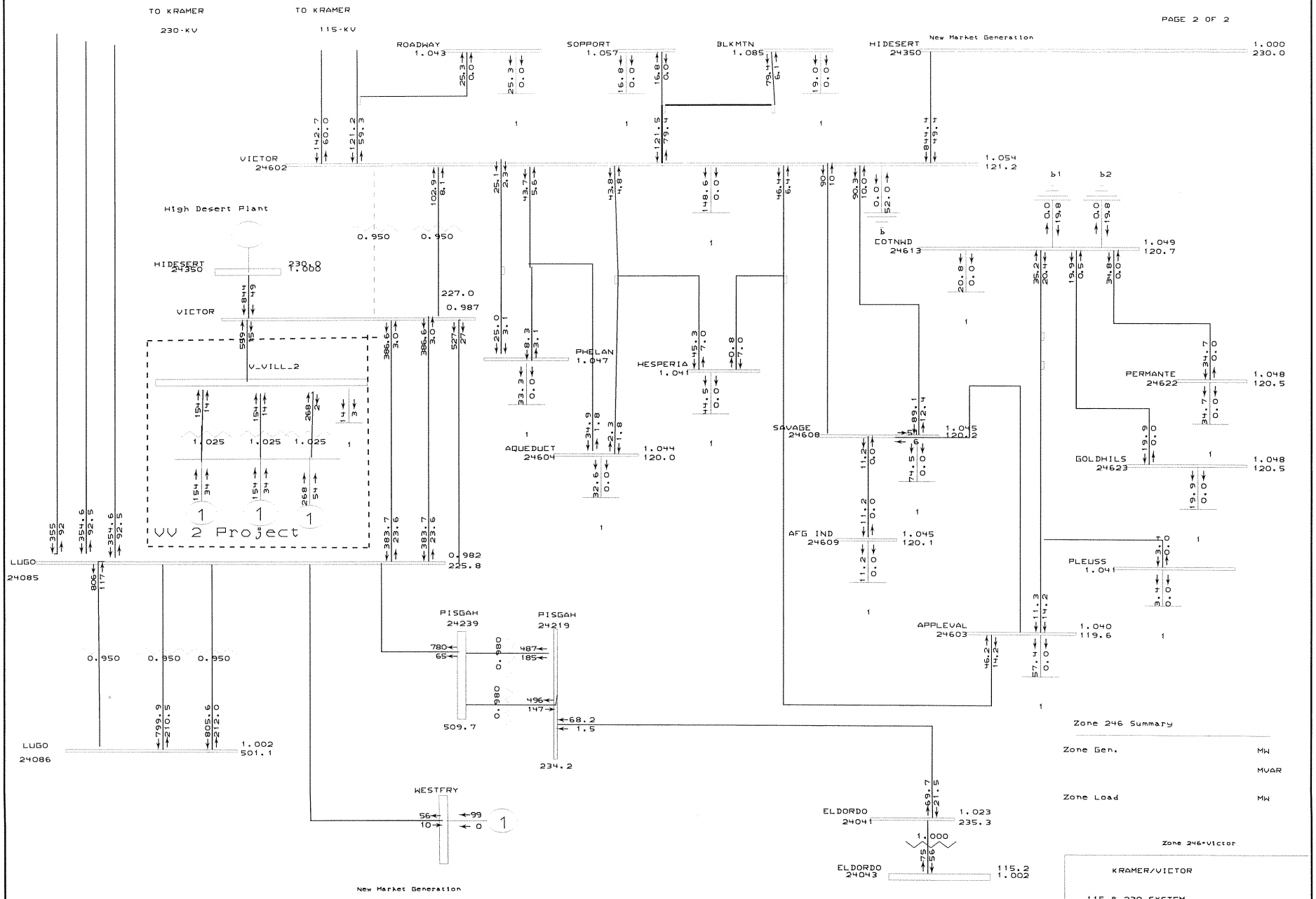


vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:23:49 2007

	VICTORVILLE 2 PROJECT STUDIES CASE NAME:sidewindermt\peakload-postsm.sav 403 line KRAMER to COLWATER 230 ck 2	[S.LUGO 5847MW][N.LUGO 1356MW][N.SONGS 1120MW][S.SONGS 1030MW] [SYLMAR 1259][VIC-LUGO 2272][EL-LUGO 1100][MHV-LUGO 659][PV-DV 3094]MW	PSLF Program c:\epcl\vv152\batch\D Rating = 1



vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:25:11 2007

VICTORVILLE 2 PROJECT STUDIES

CASE NAME:sidewindermt\peakload-postsm.sav

408 tran VICTOR 230 to VICTOR 115 ck 1

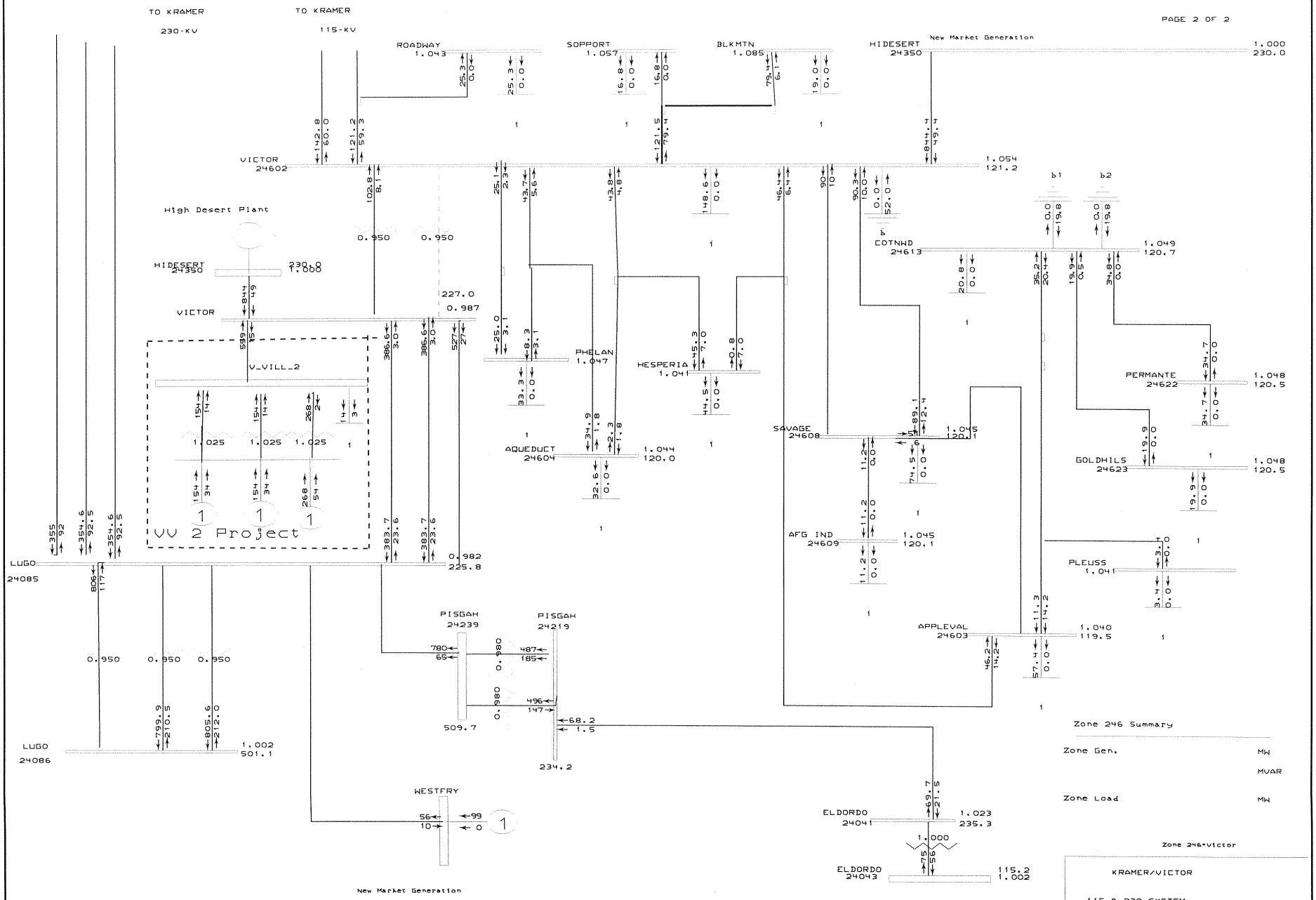
[S.LUGO 5847MW][N.LUGO 1356MW][N.SONGS 1120MW][S.SONGS 1030MW]

[SYLMAR 1259][VIC-LUGO 2272][EL-LUGO 1100][MHV-LUGO 659][PV-DV 3094]MW

PSLF Program

c:\epcl\vv152\batch\D

Rating = 1

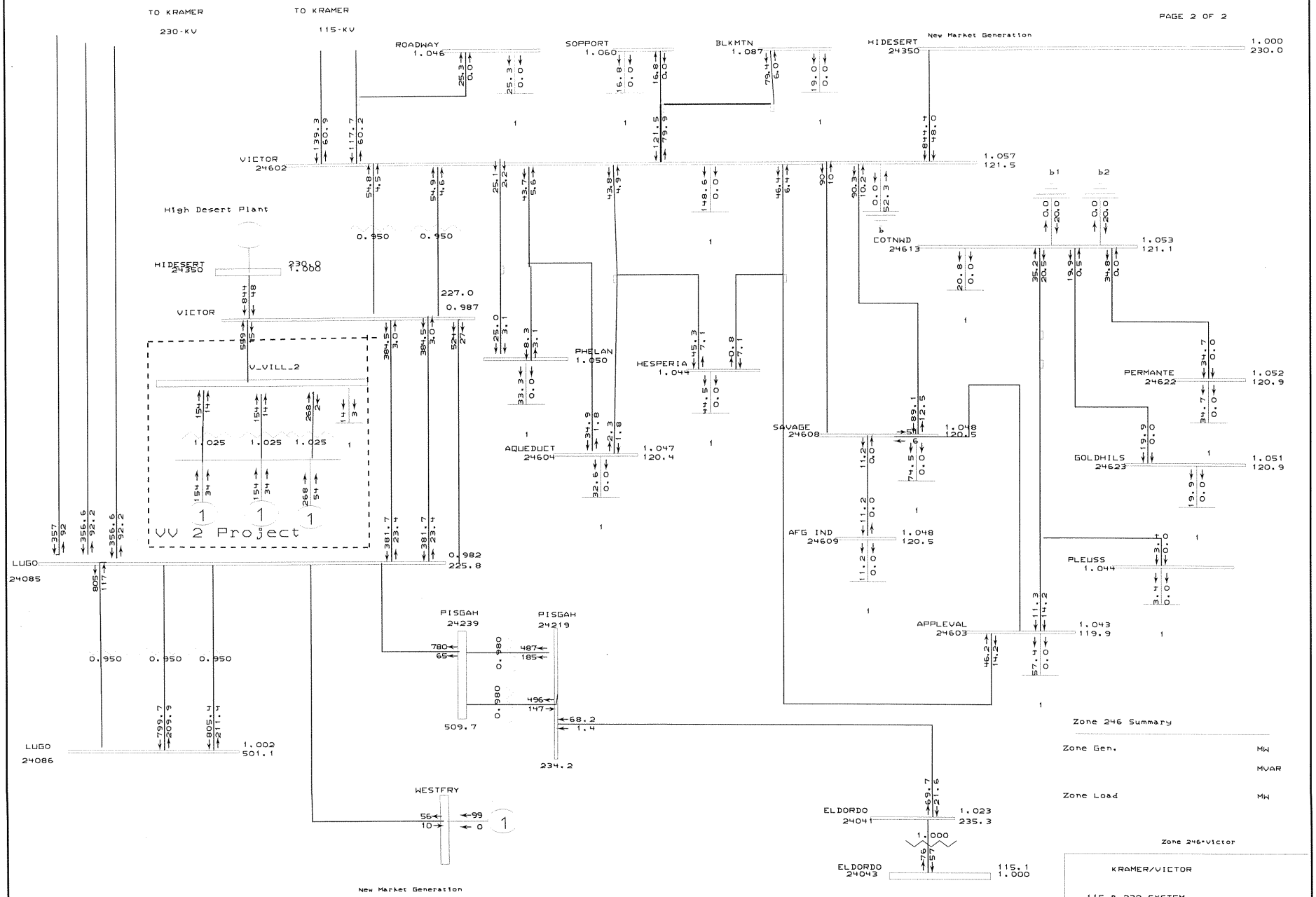


vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:25:15 2007

	VICTORVILLE 2 PROJECT STUDIES CASE NAME:sldewindermt\peakload-postsm.sav 408 tran VICTOR 230 to VICTOR 115 ck 2	[S.LUGO 5847MW][N.LUGO 1356MW][N.SONGS 1120MW][S.SONGS 1030MW] [SYLMAR 1259][VIC-LUGO 2272][EL-LUGO 1100][MHV-LUGO 659][PV-DV 3094]MW	PSLF Program c:\epcl\vv152\batch\D Rating = 1

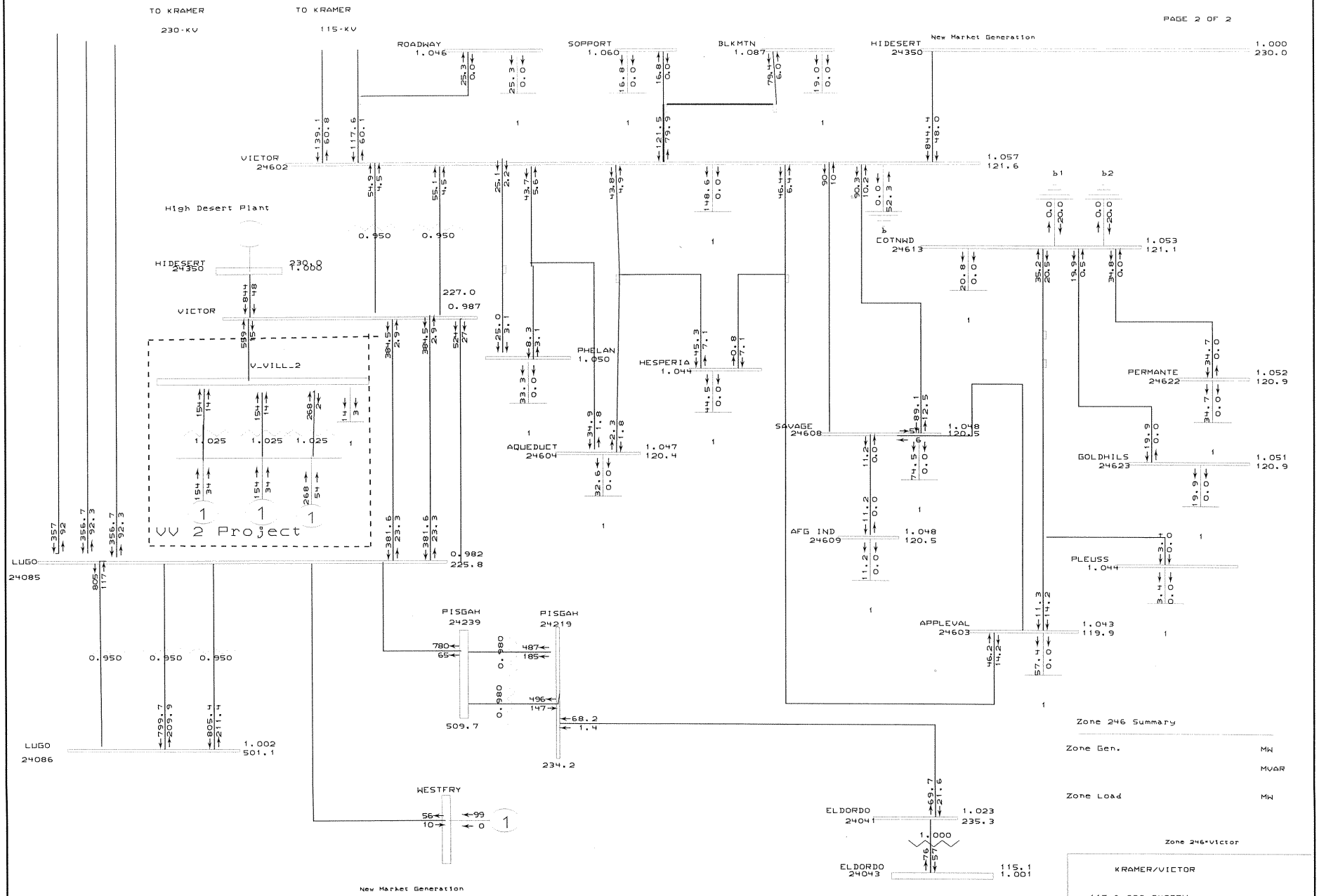


vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:25:18 2007

	VICTORVILLE 2 PROJECT STUDIES CASE NAME:sidewindermt\peakload-postsm.sav 408 tran KRAMER 230 to KRAMER 115 ck 1	[S.LUGO 5847MW][N.LUGO 1356MW][N.SONGS 1120MW][S.SONGS 1030MW] [SYLMAR 1259][VIC-LUGO 2272][EL-LUGO 1100][MHV-LUGO 659][PV-DV 3094]MW	PSLF Program c:\epcl\vv152\batch\D Rating = 1



vv-2-2009hs-post-allupgrades.sav

MW/MVAR

Tue Apr 03 15:25:21 2007

VICTORVILLE 2 PROJECT STUDIES

CASE NAME:sldewindermt\peakload-postsm.sav

408 tran KRAMER 230 to KRAMER 115 ck 2

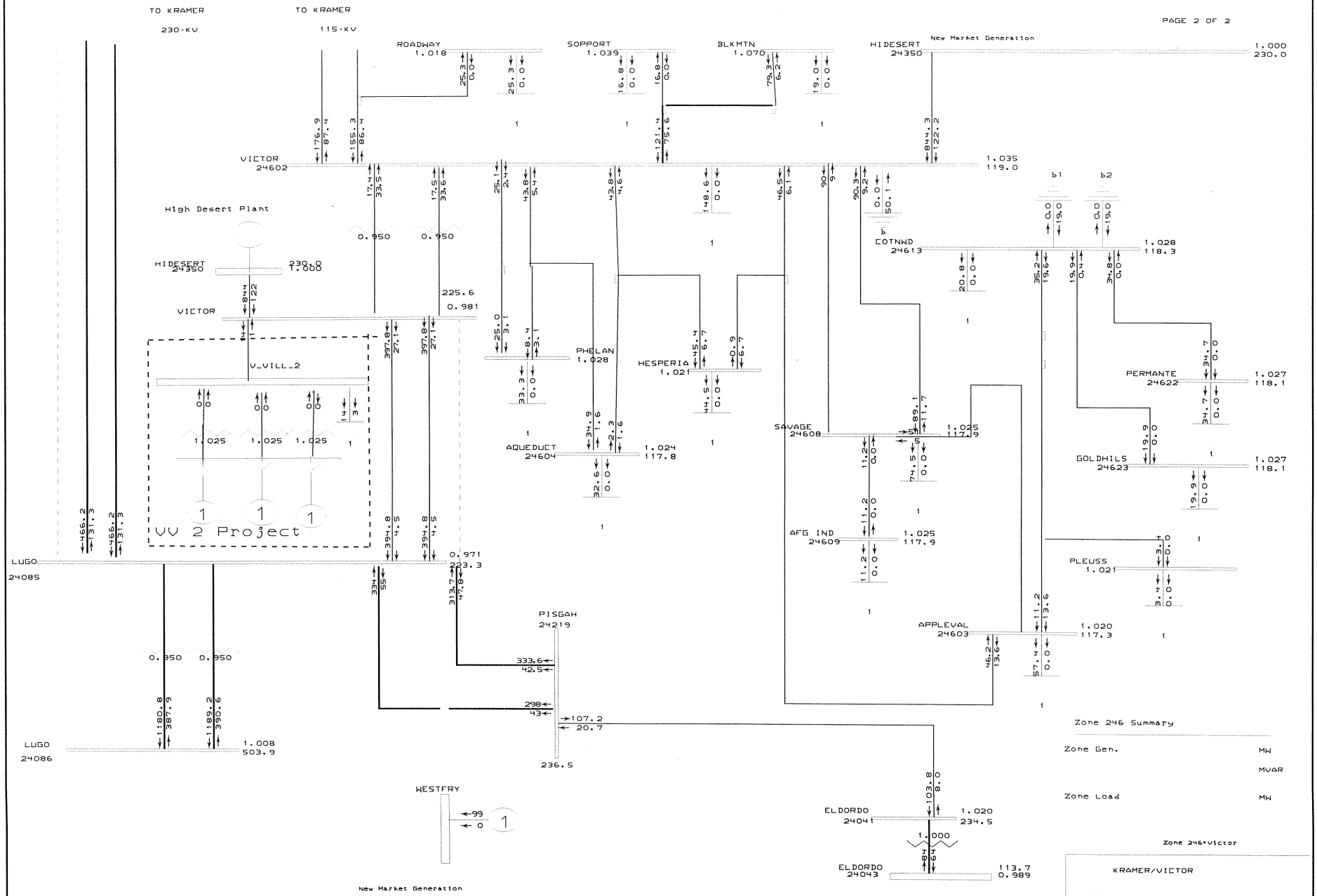
[S.LUGO 5847MW][N.LUGO 1356MW][N.SONGS 1120MW][S.SONGS 1030MW]

[SYLMAR 1259][VIC-LUGO 2272][EL-LUGO 1100][MHV-LUGO 659][PV-DV 3094]MW

PSLF Program

c:\epcl\vv152\batch\D

Rating = 1

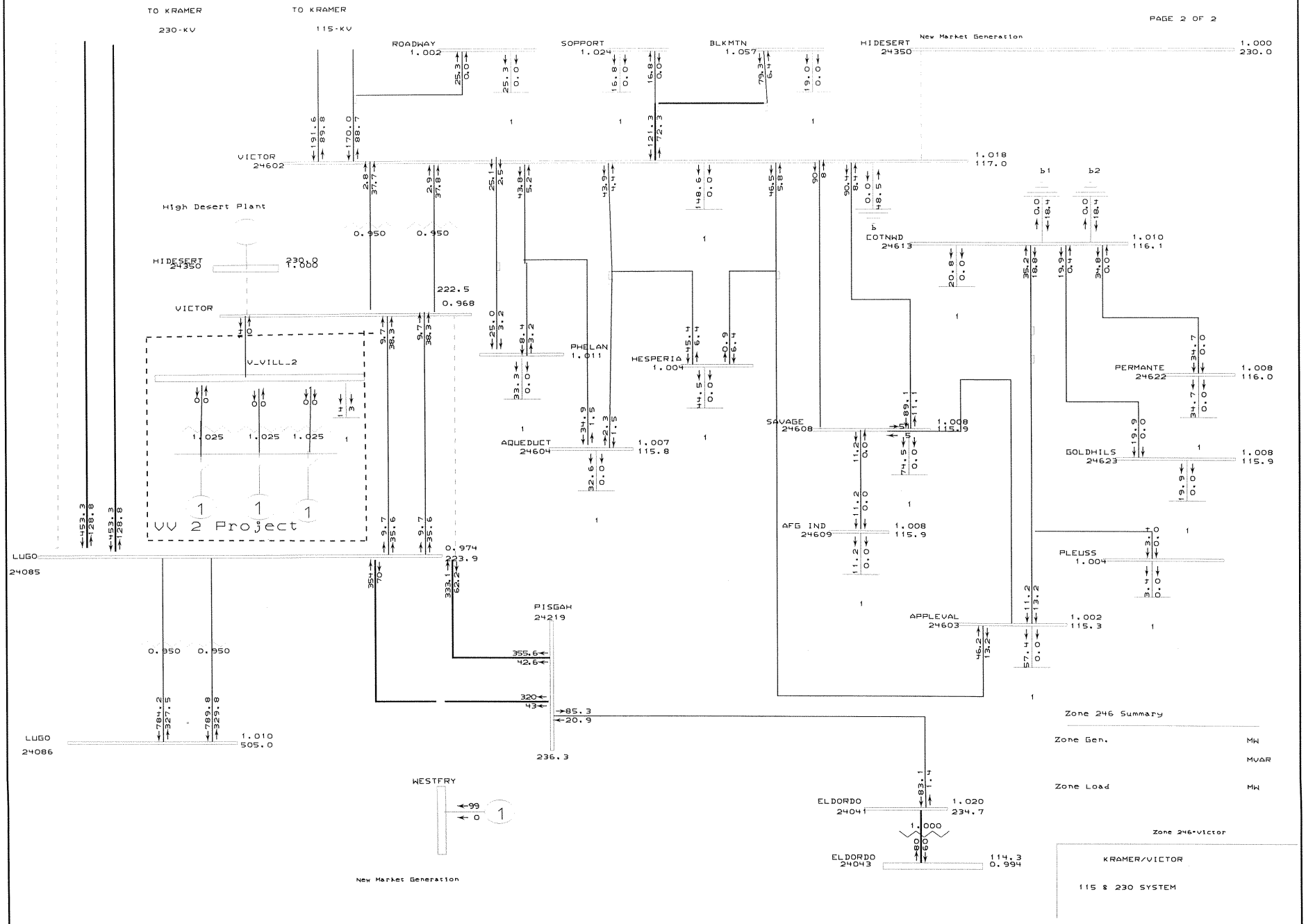


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:10:14 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2009HS-PRE PROJECT	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\v152\batch\D Rating = 1

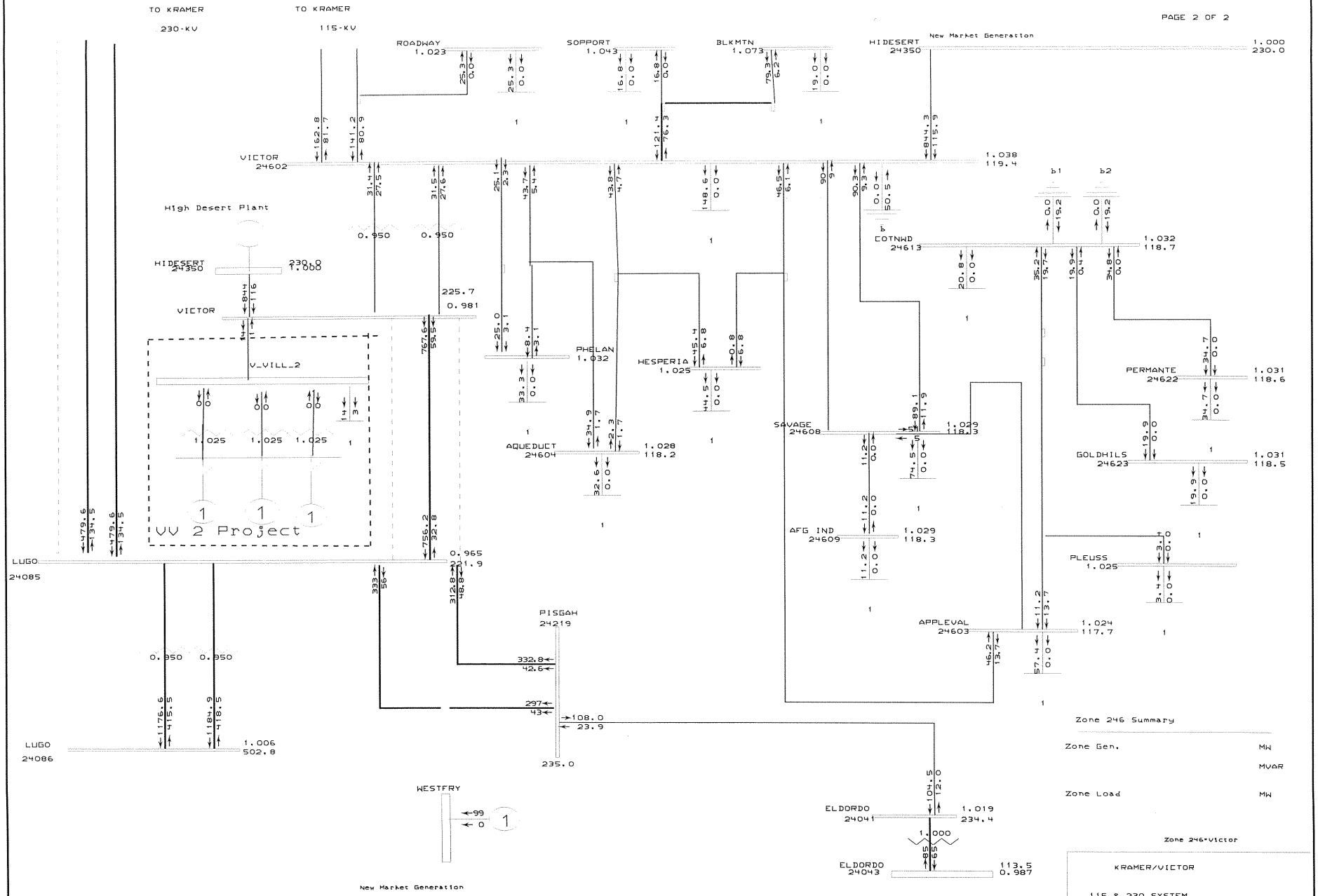


vv-2-2009HS-pre.sav

MW/MVAR

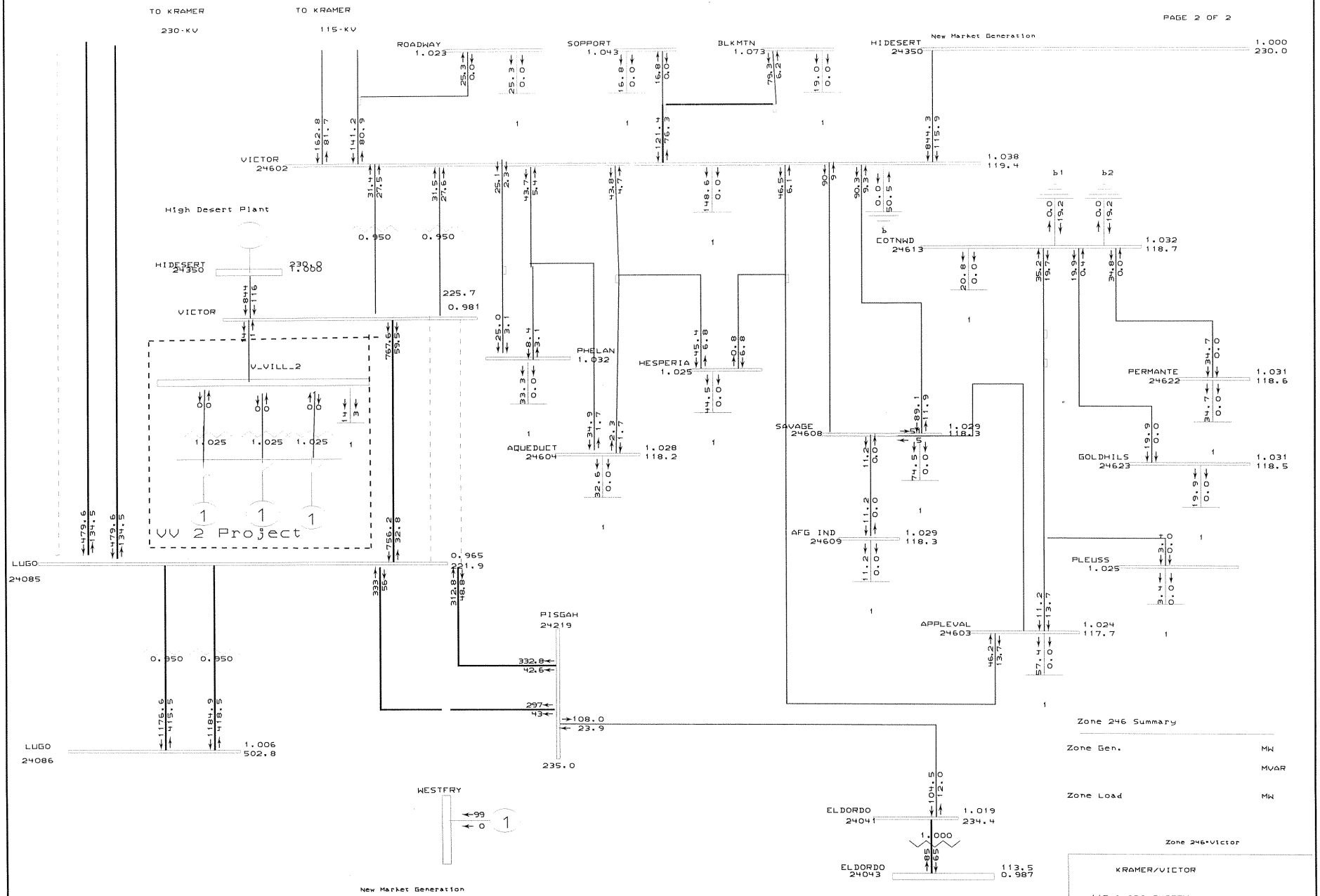
Tue Apr 03 15:10:16 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line HIDESERT to VICTOR 230 ckt 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1



vv-2-2009HS-pre.sav | MW/MVAR | Tue Apr 03 15:10:19 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

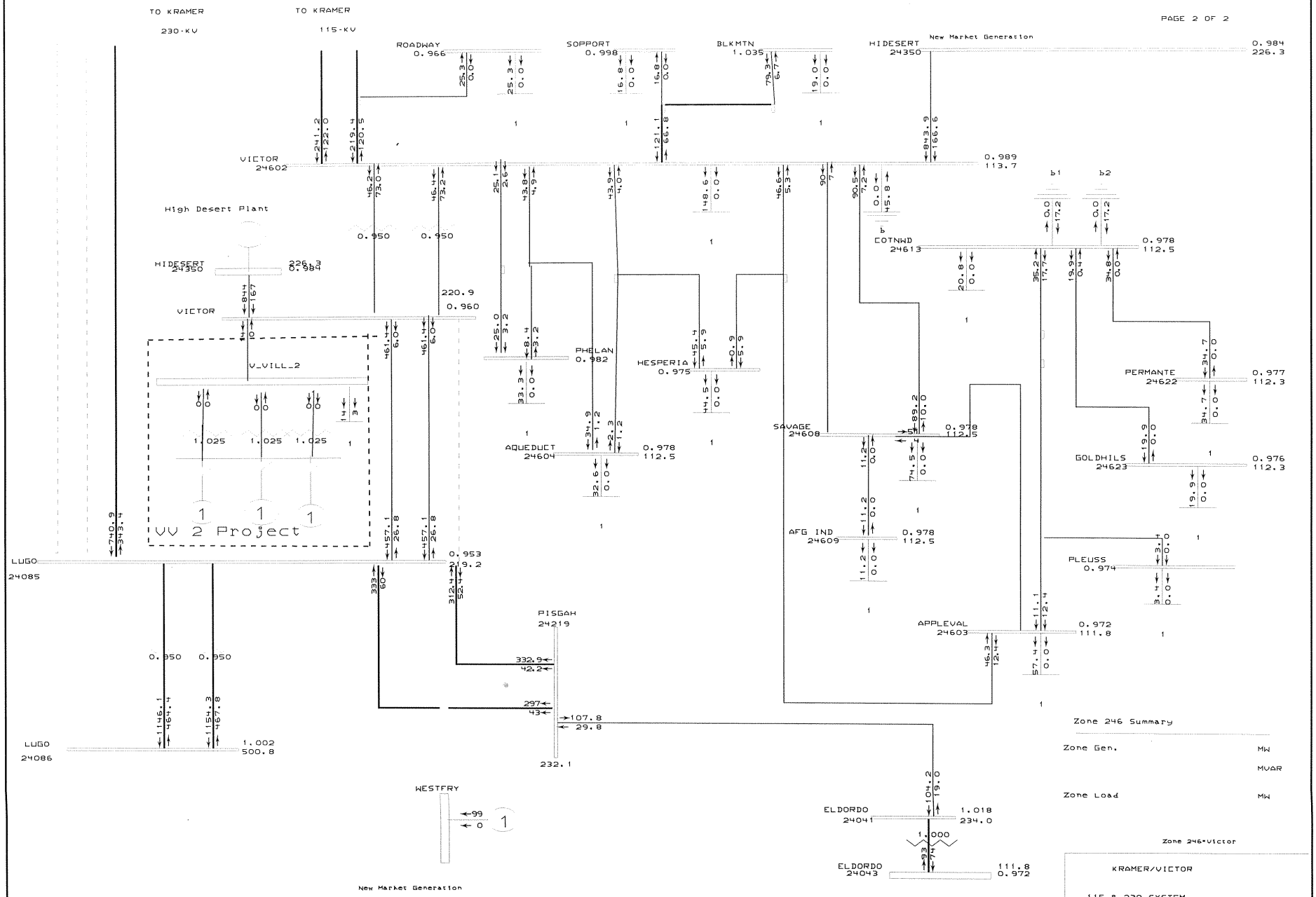


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:10:21 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

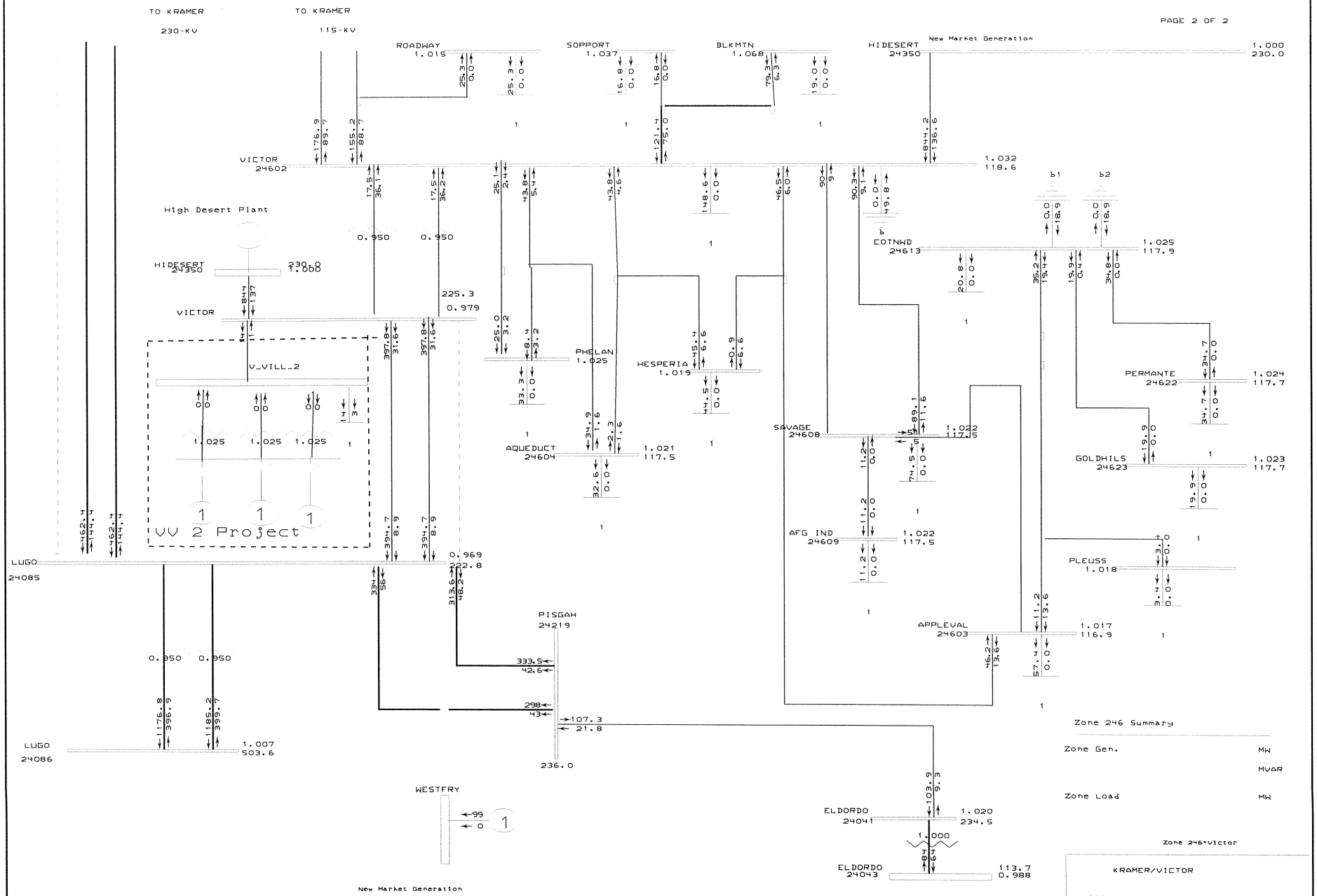


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:10:53 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

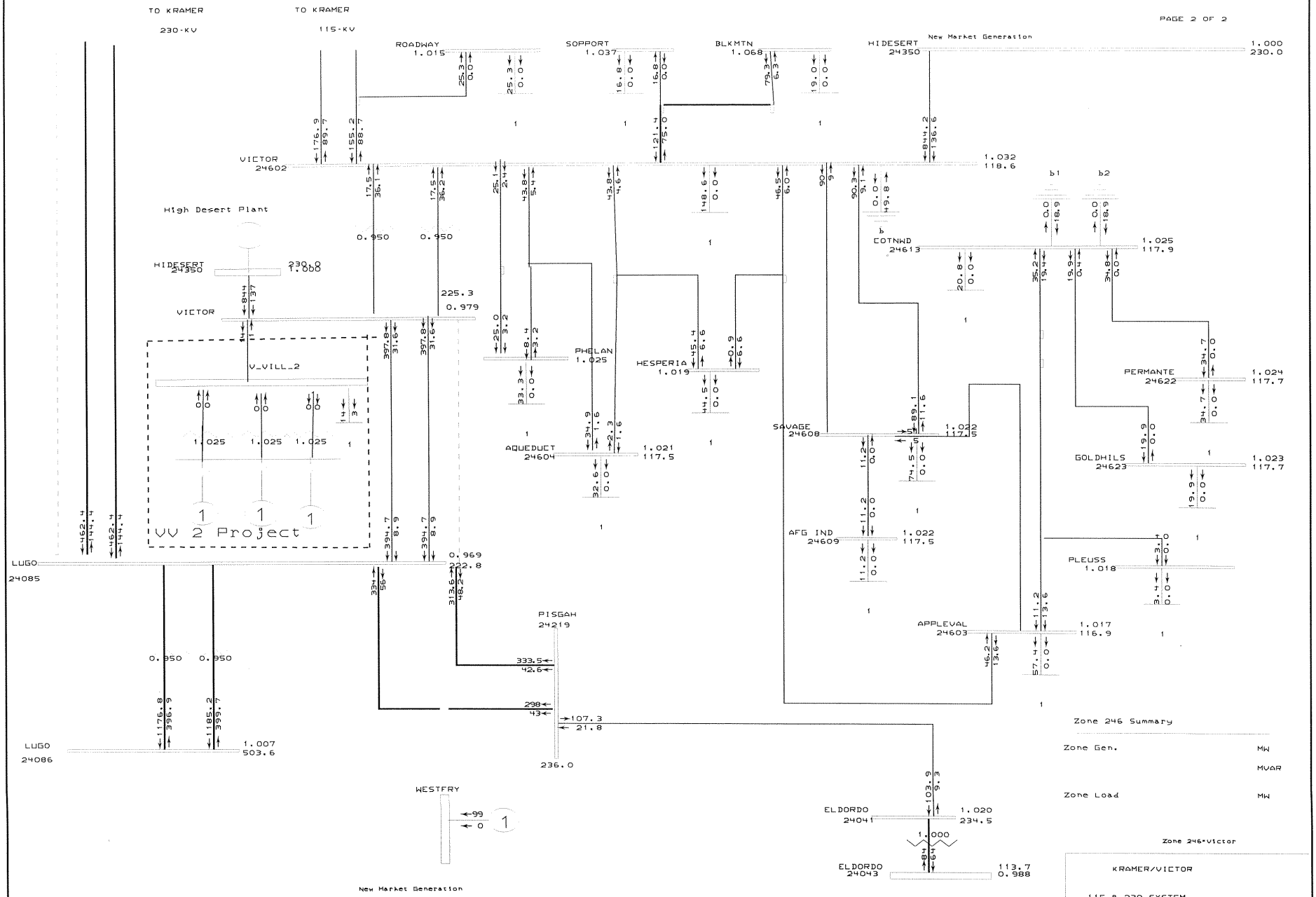


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:10:55 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

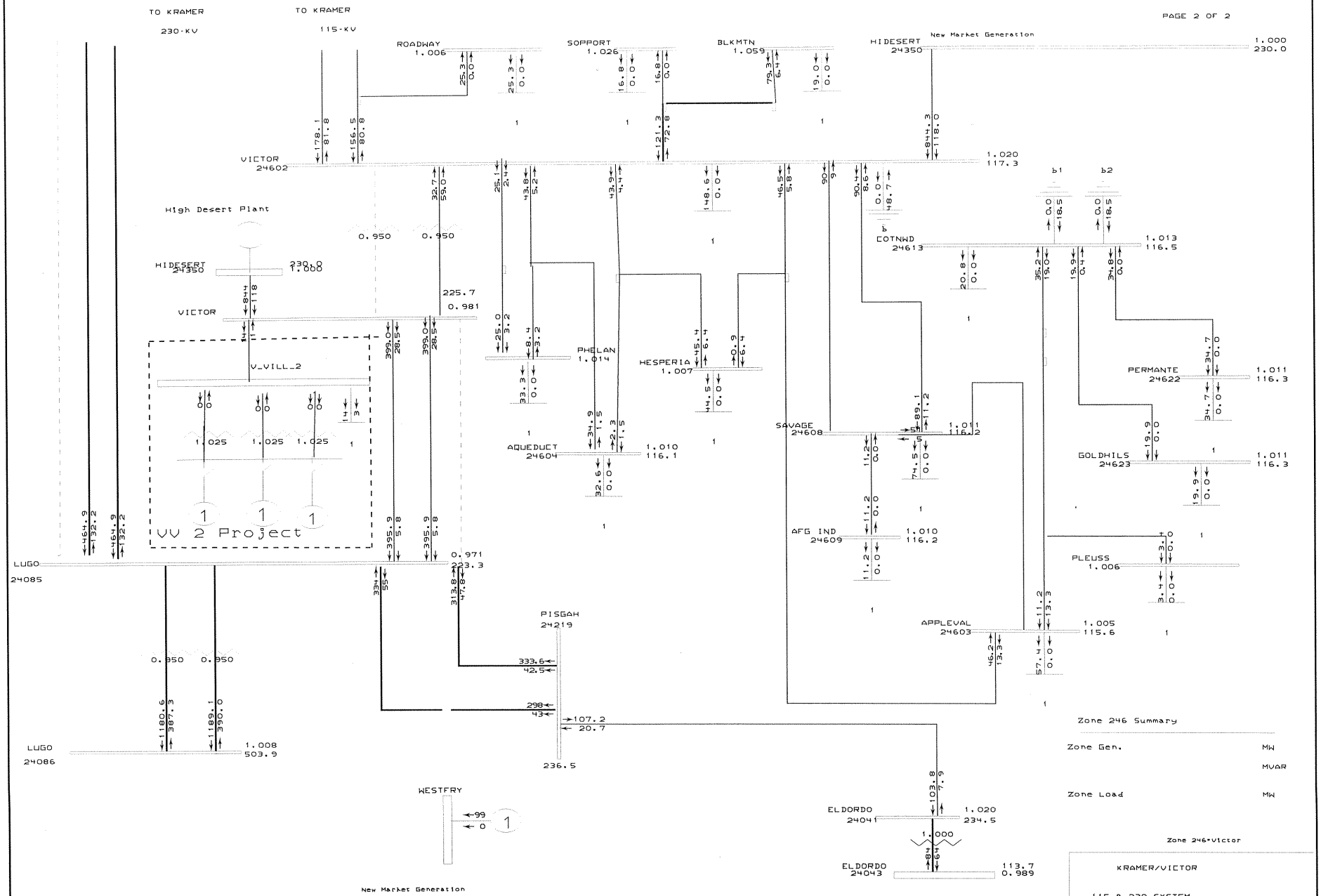


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:10:57 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\v152\batch\D Rating = 1

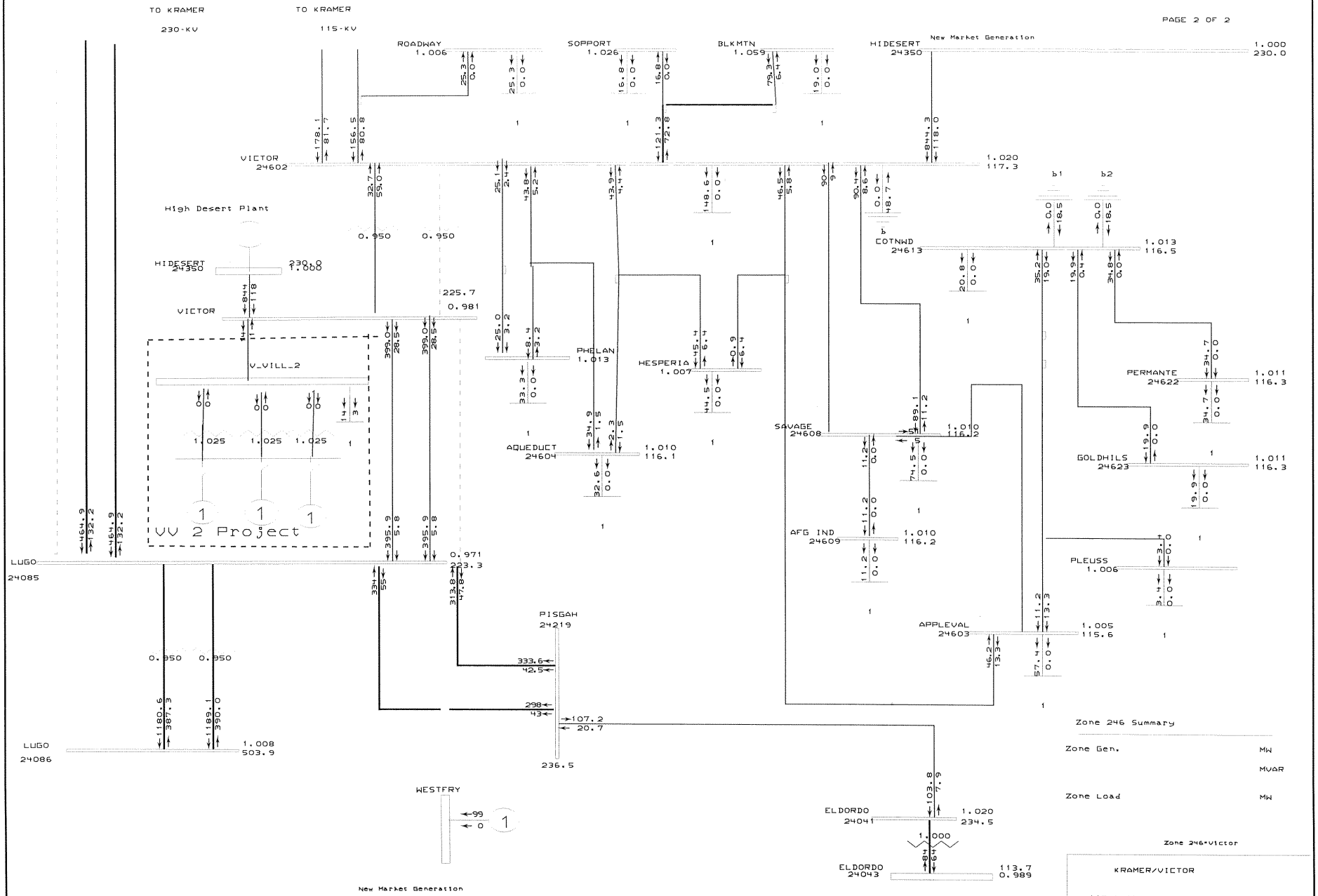


vv-2-2009HS-pre.sav

MW/MVAR

Tue Apr 03 15:12:09 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

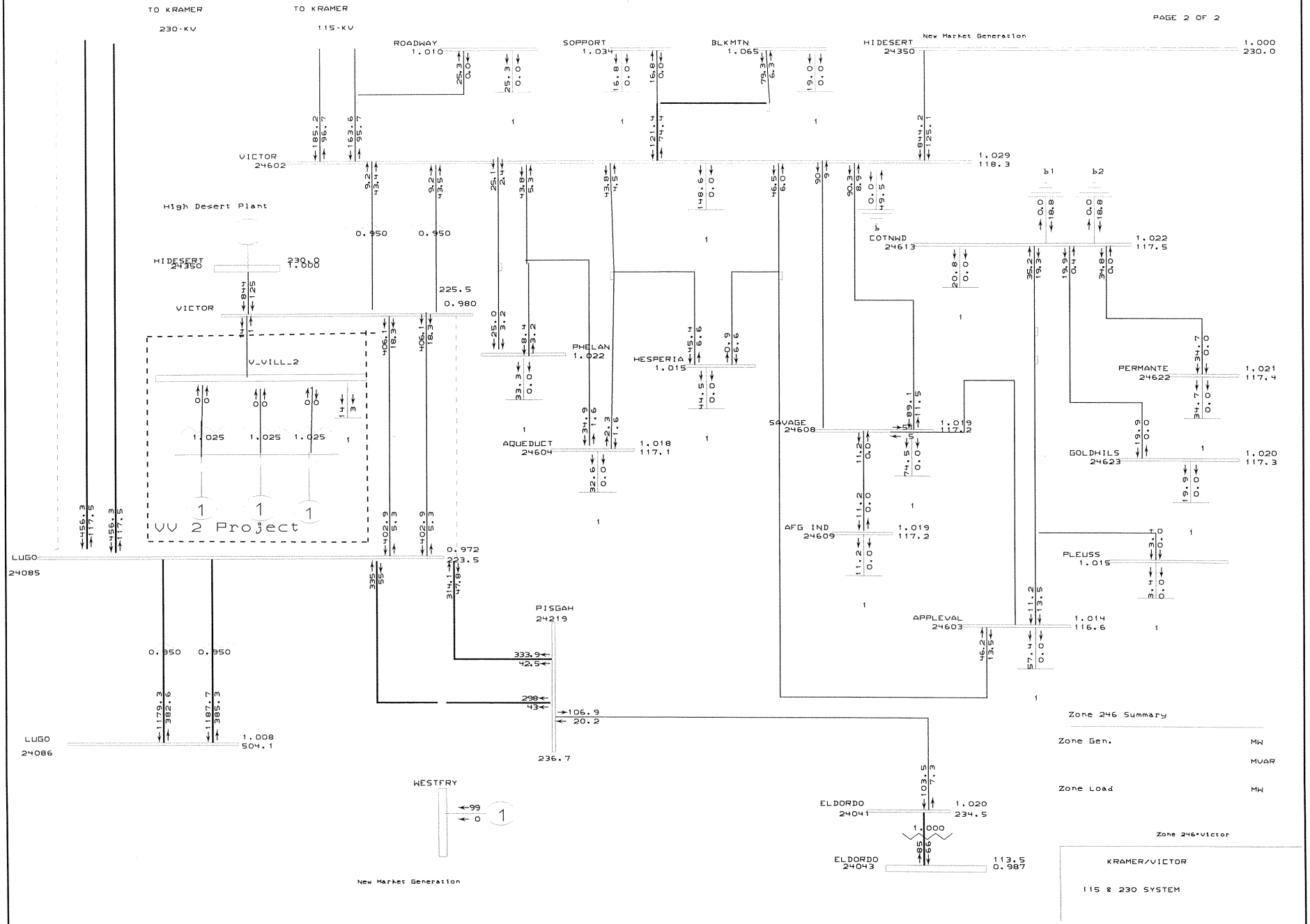


vv-2-2009HS-pre.sav

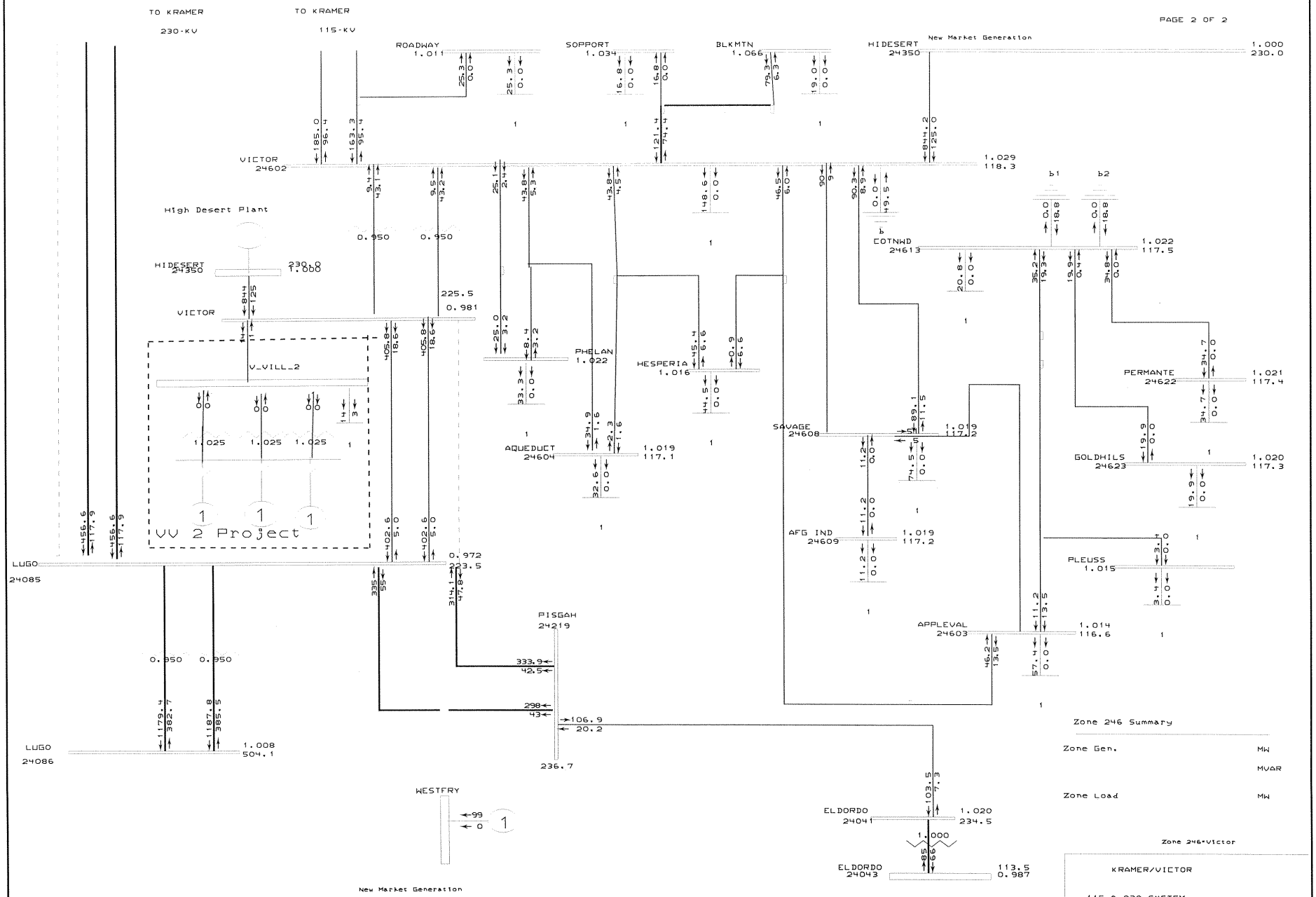
MW/MVAR

Tue Apr 03 15:12:11 2007

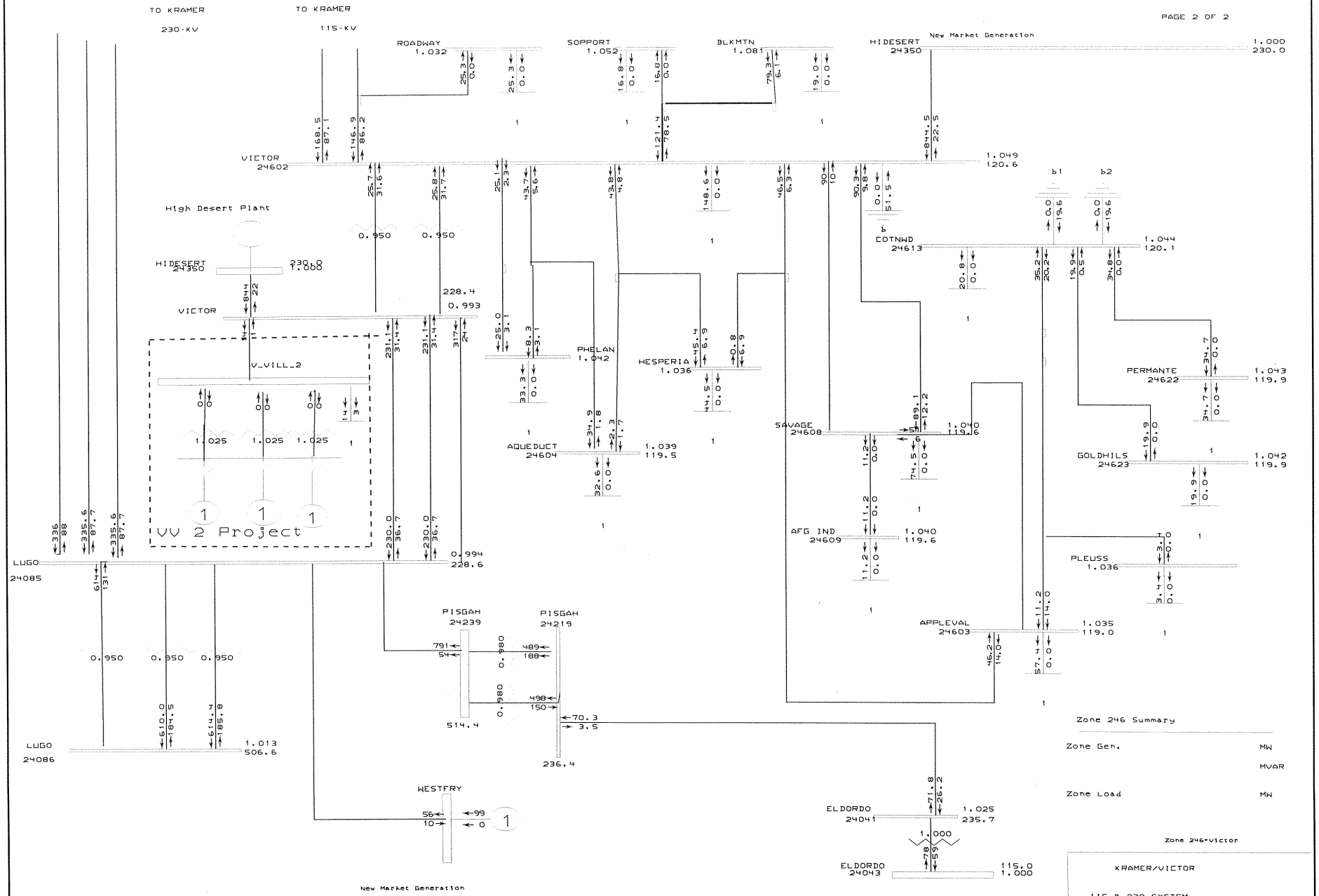
	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1



	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

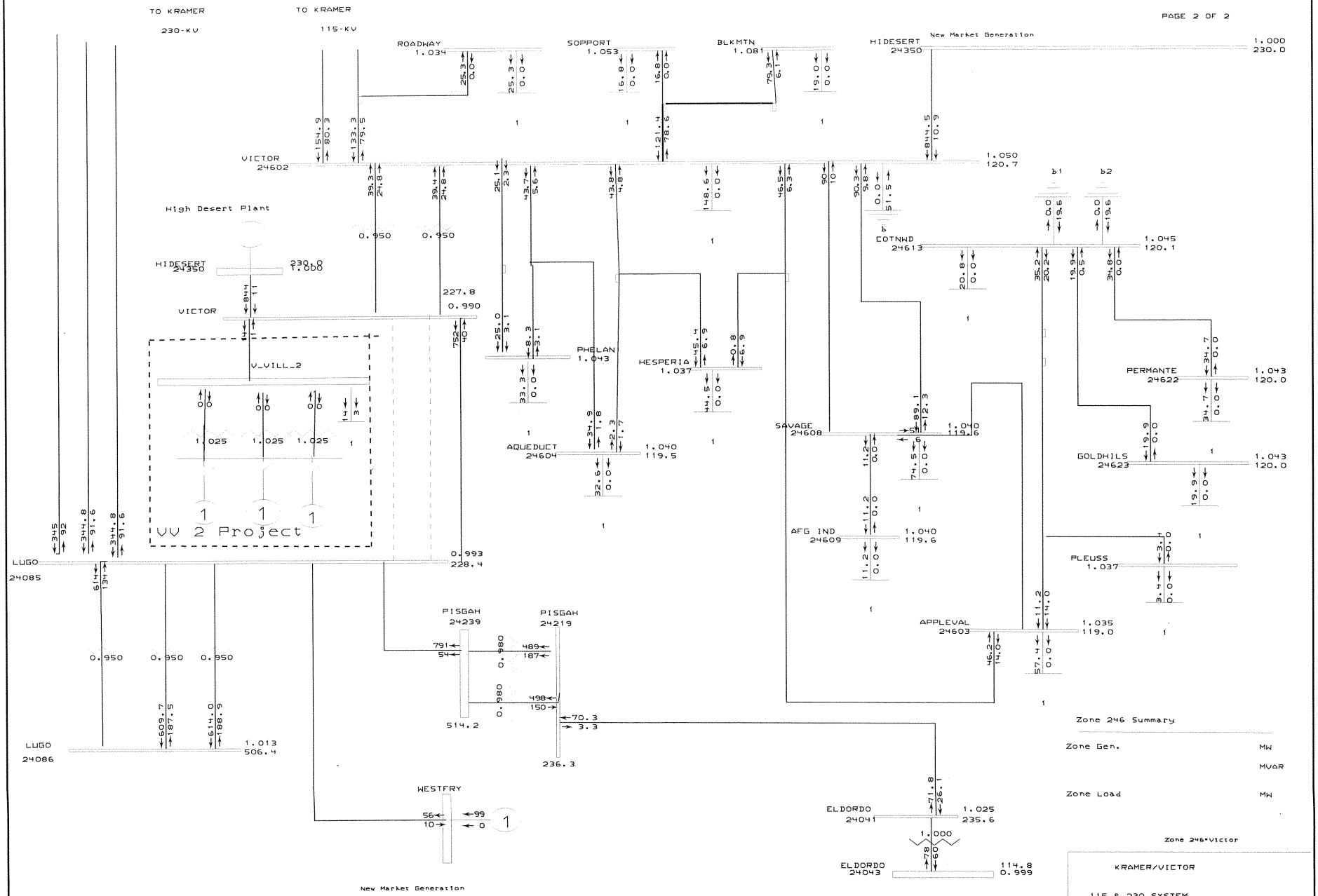


	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

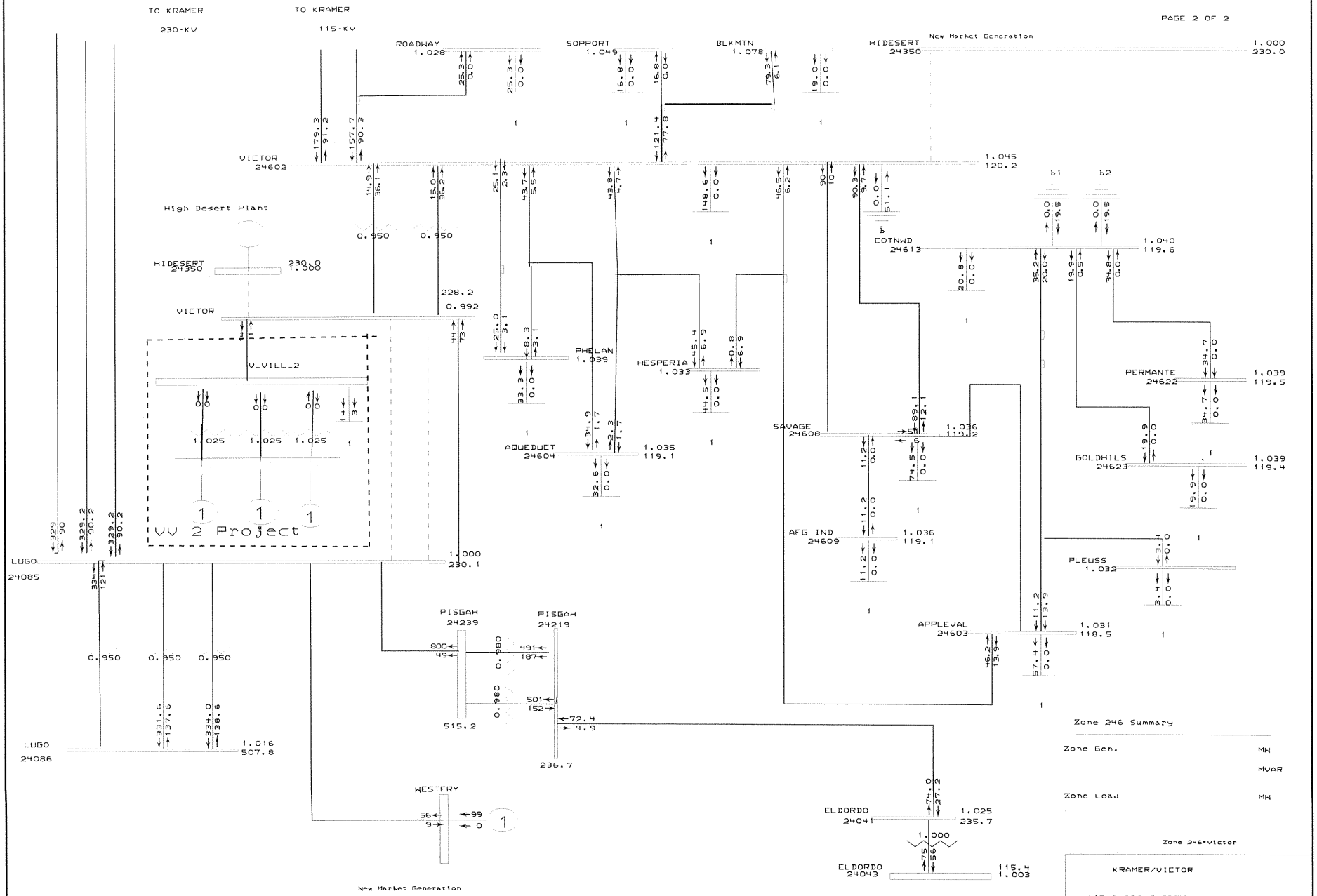


vv-2-2009hs-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 15:18:52 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2009HS-PRE PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

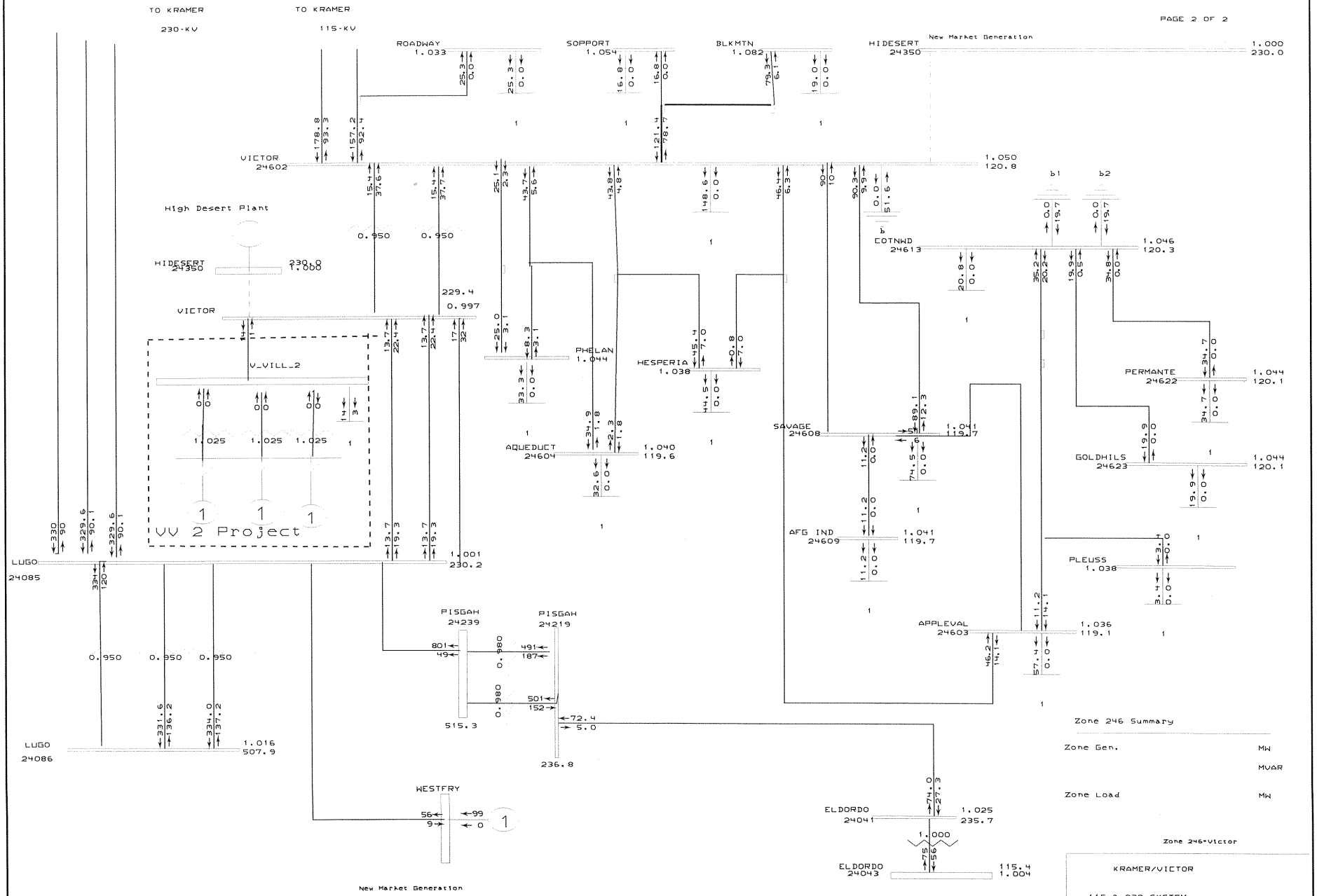


	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR 230.00 - LUGO 230.00 1, VICTOR 230.00 - LUGO 230.00 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1



vv-2-2009hs-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 15:21:52 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR - LUGO 230 1, VICTOR - LUGO 230 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

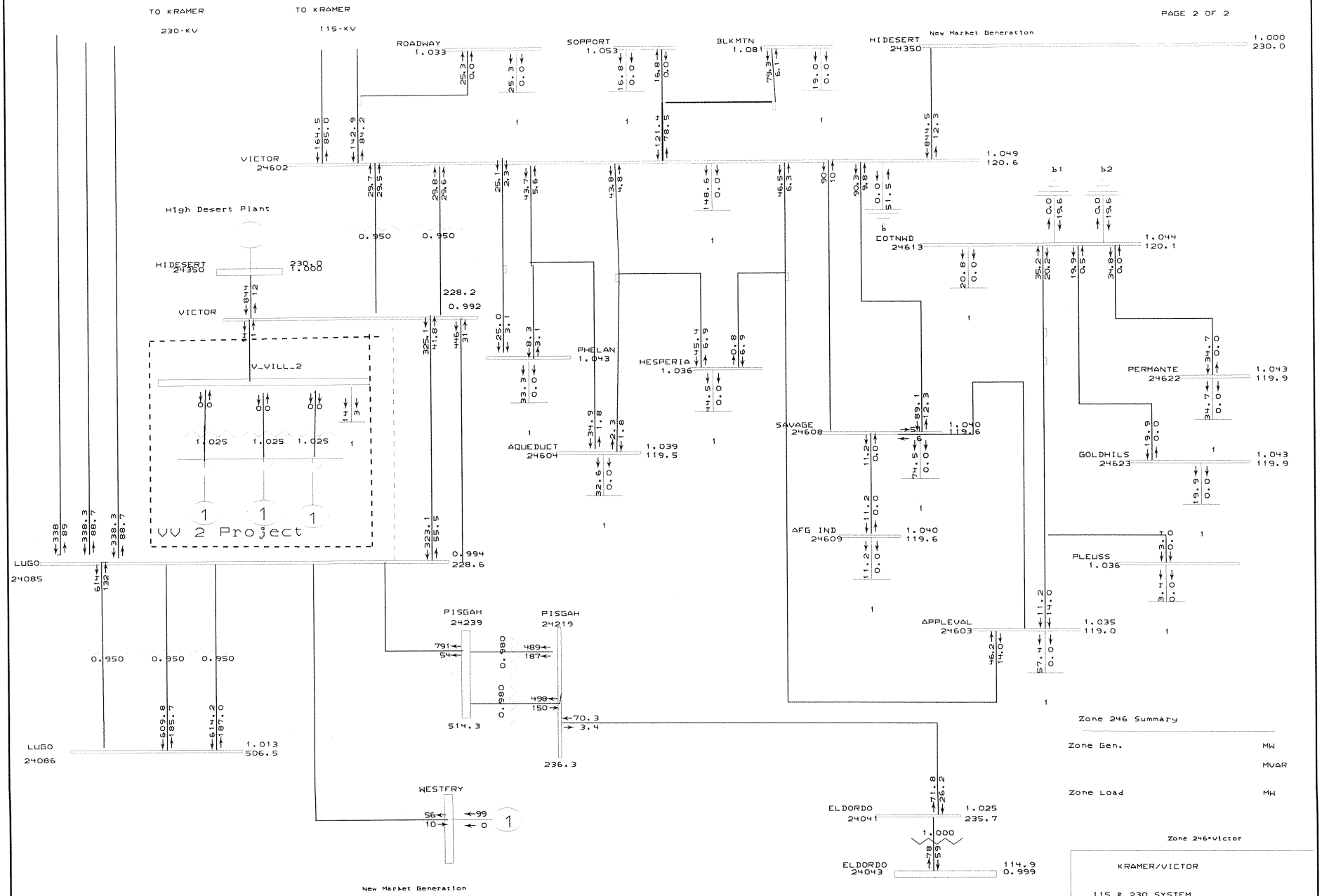


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 15:18:55 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line HIDESERT to VICTOR 230 ckt 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

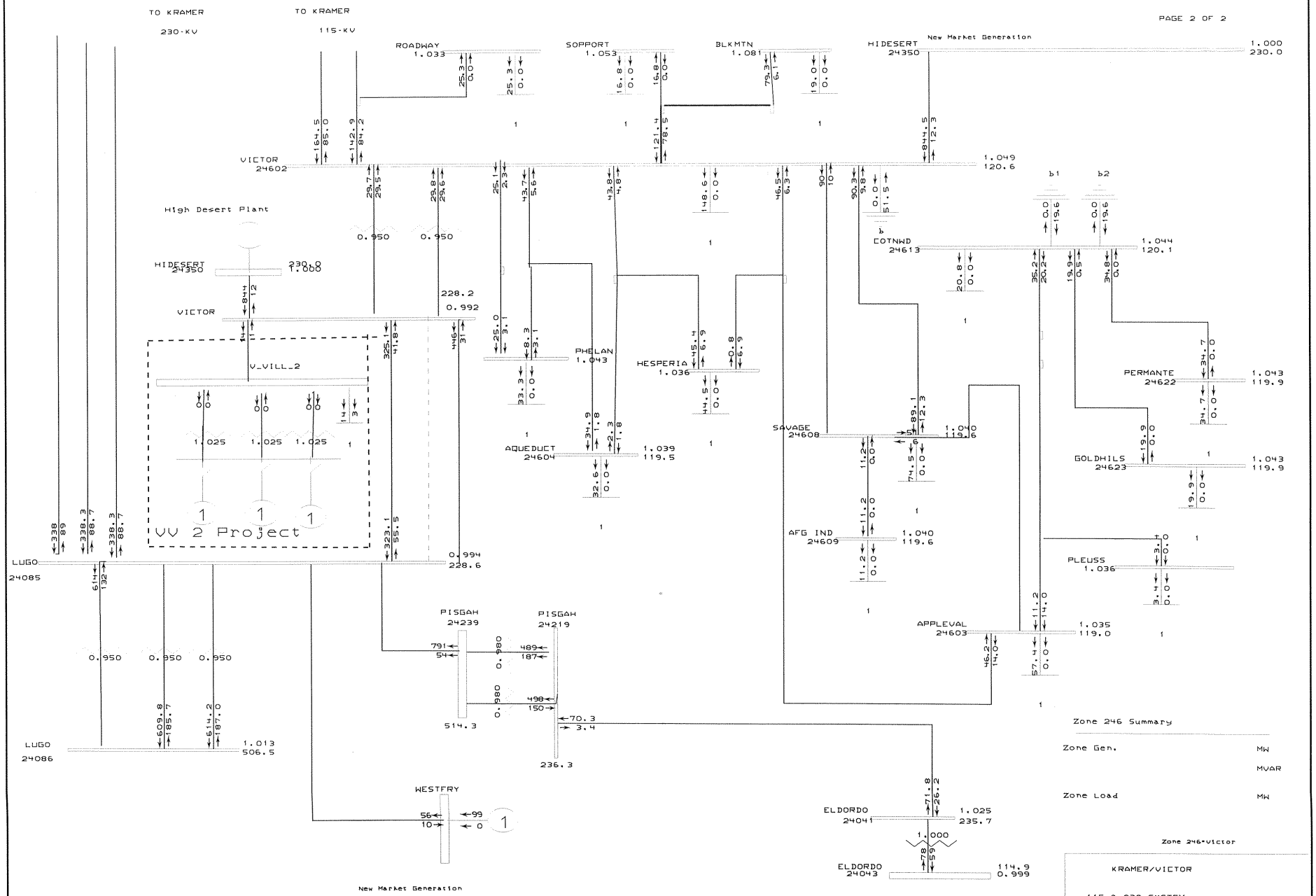


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

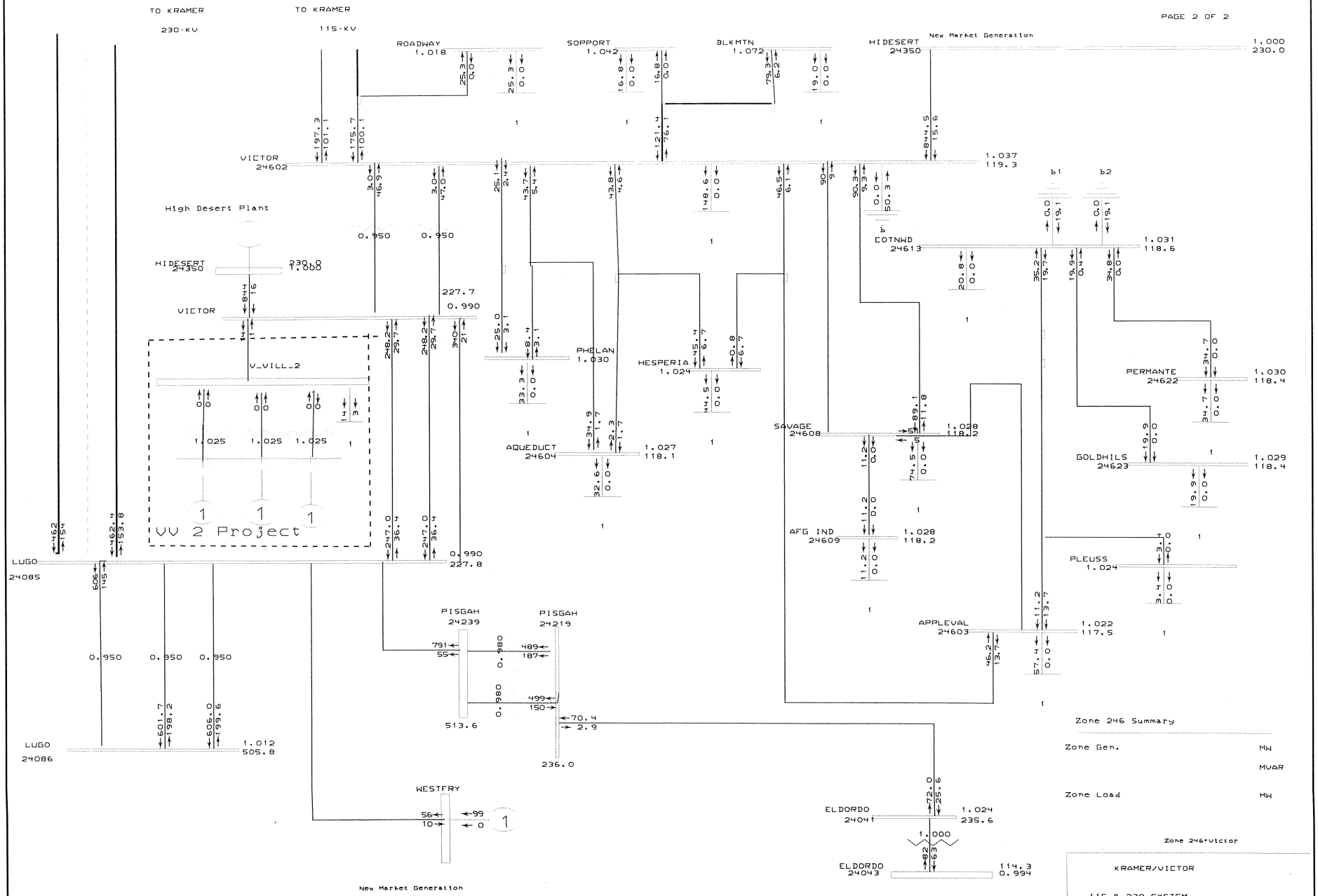
Tue Apr 03 15:18:57 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1



vv-2-2009hs-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 15:18:59 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

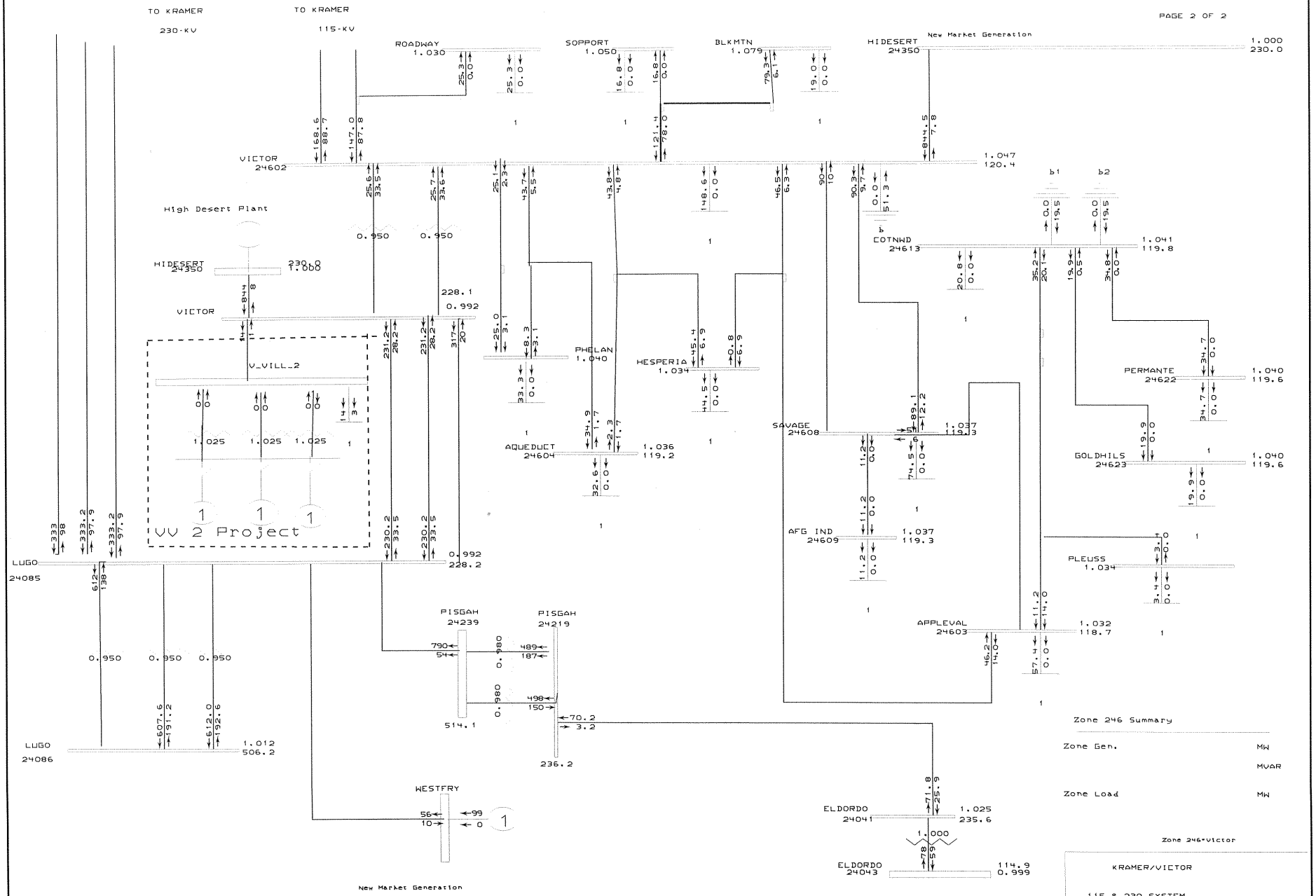


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 15:19:30 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to LUGO 230 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

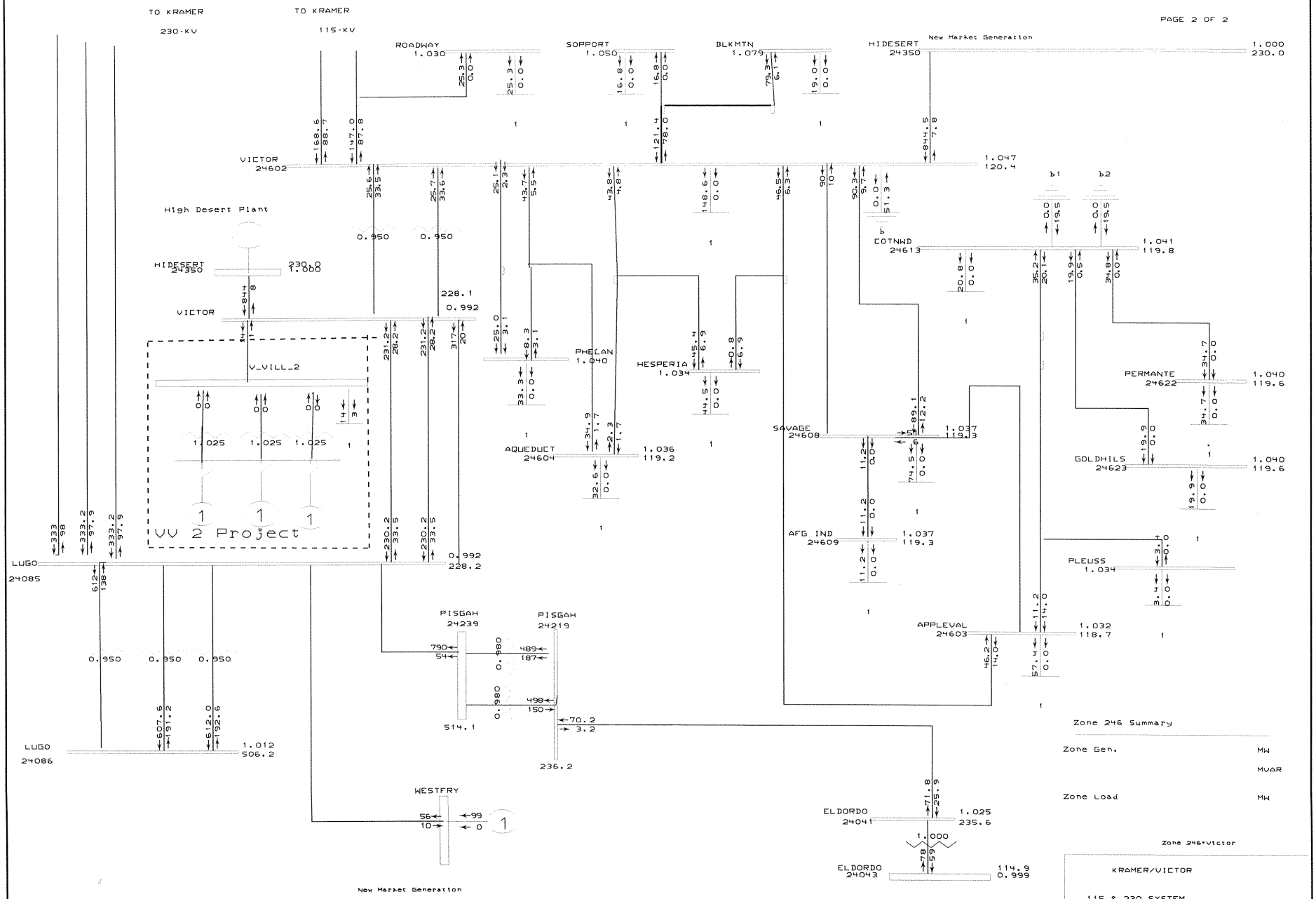


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

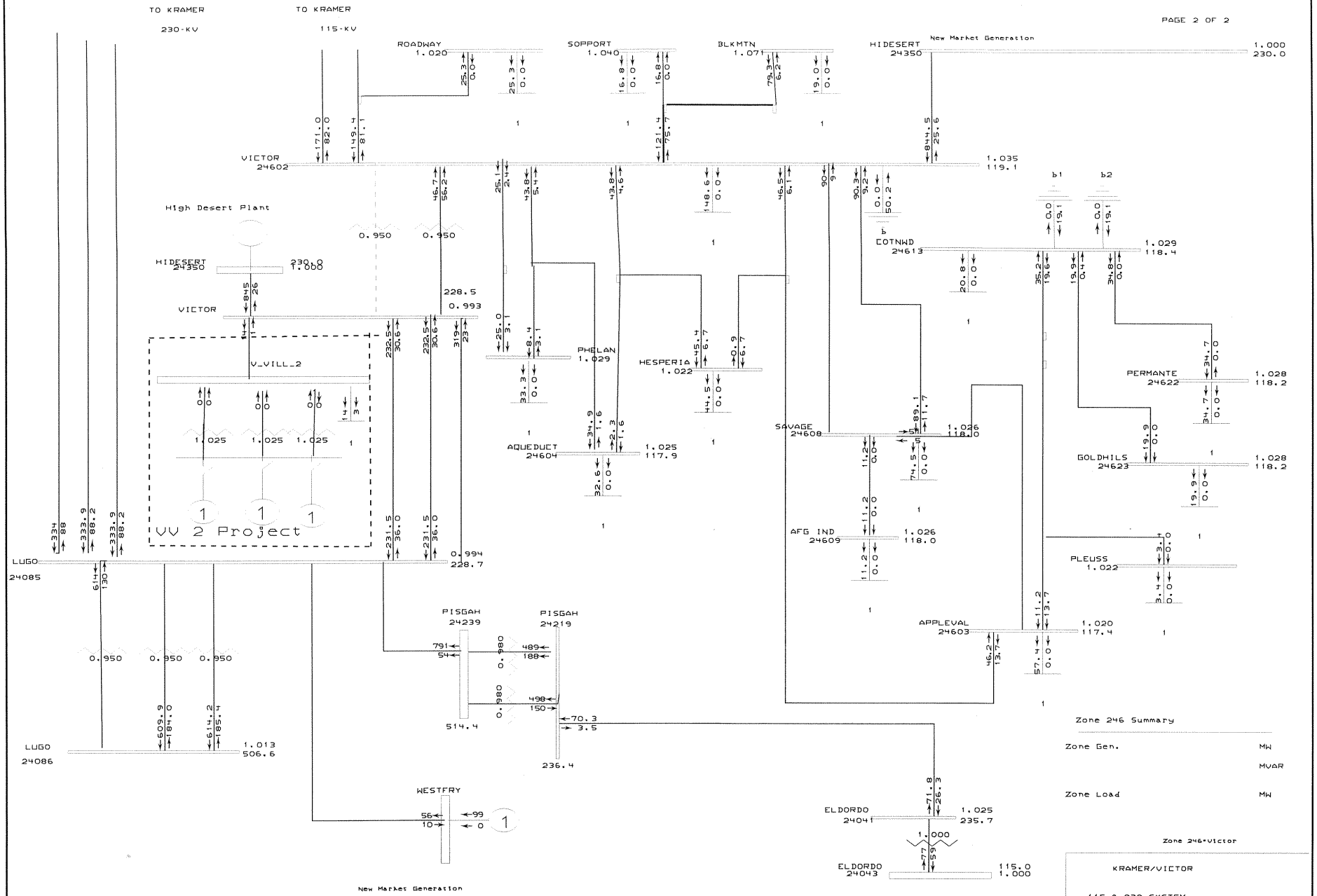
Tue Apr 03 15:19:32 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1



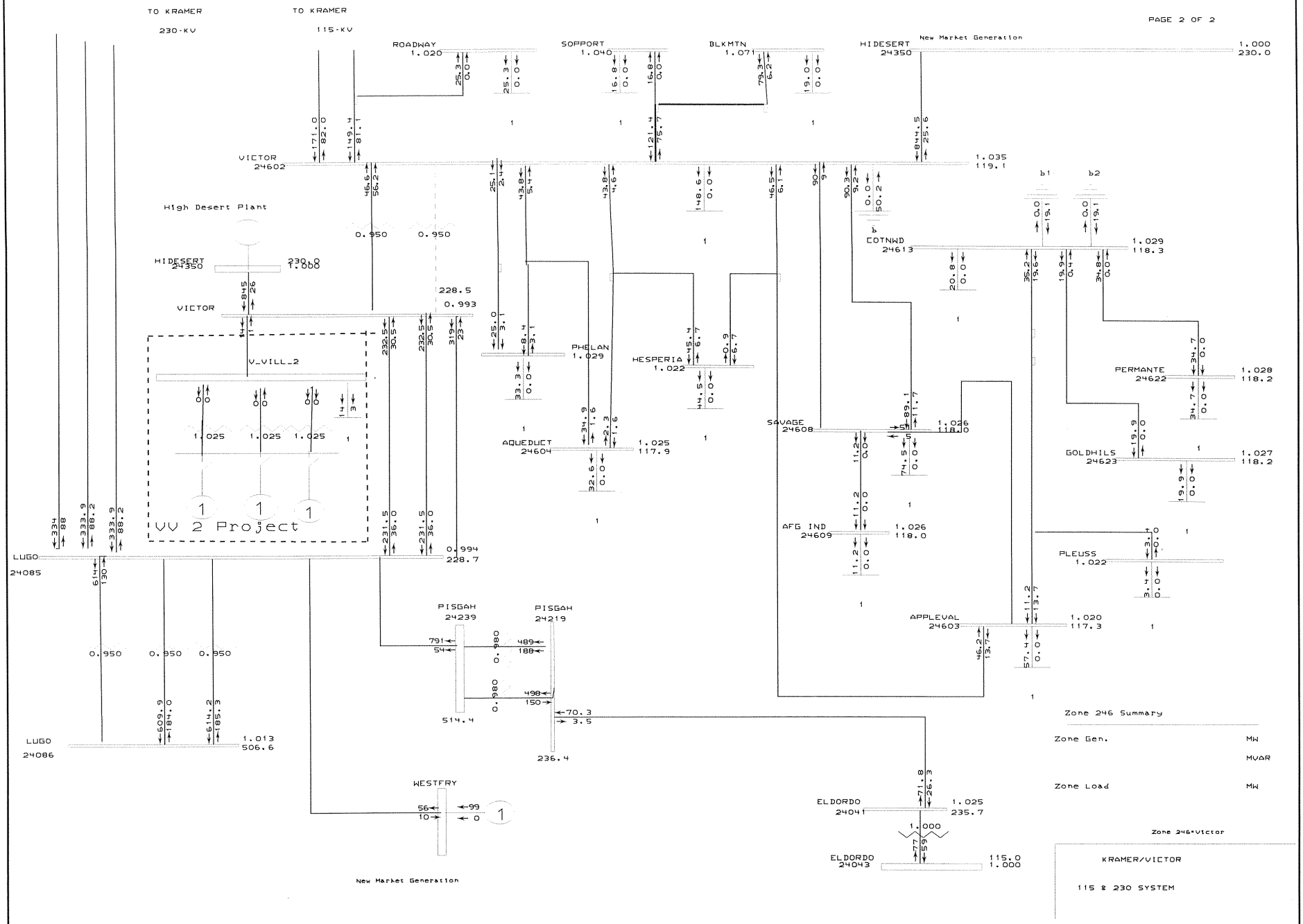
vv-2-2009hs-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 15:19:34 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1



vv-2-2009hs-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 15:20:37 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vf52\batch\D Rating = 1

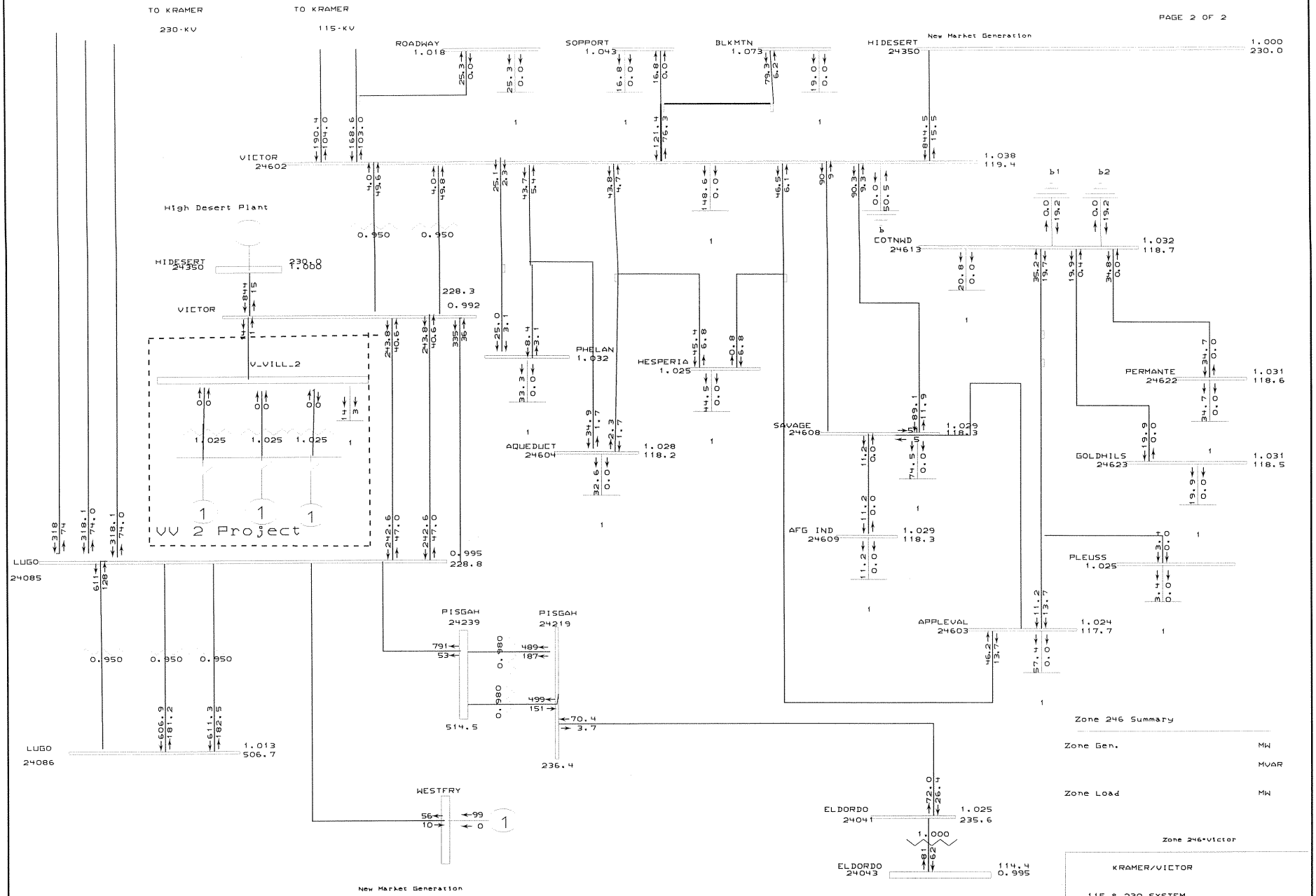


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 15:20:40 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\v152\batch\D Rating = 1

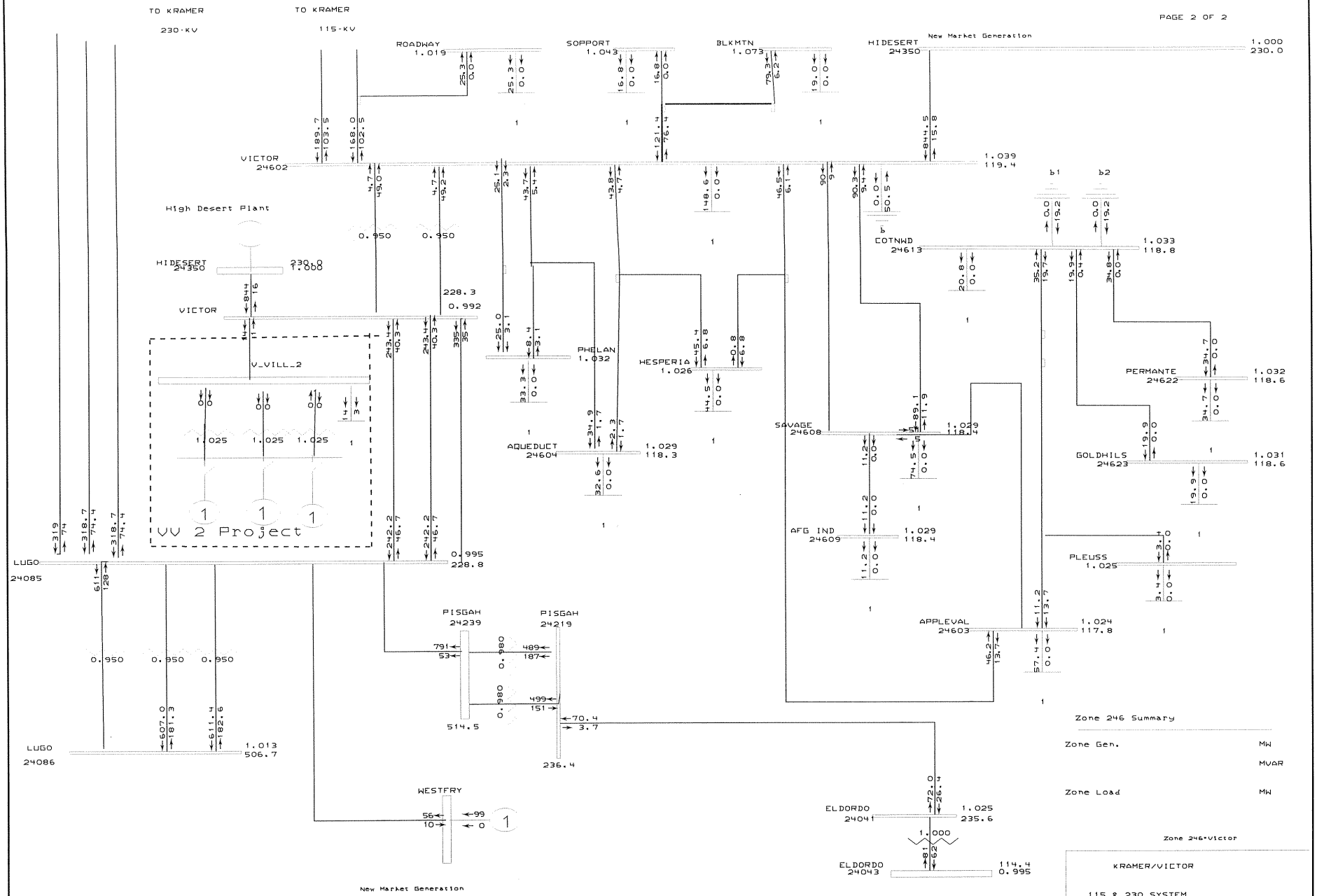


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 15:20:43 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\v152\batch\D Rating = 1

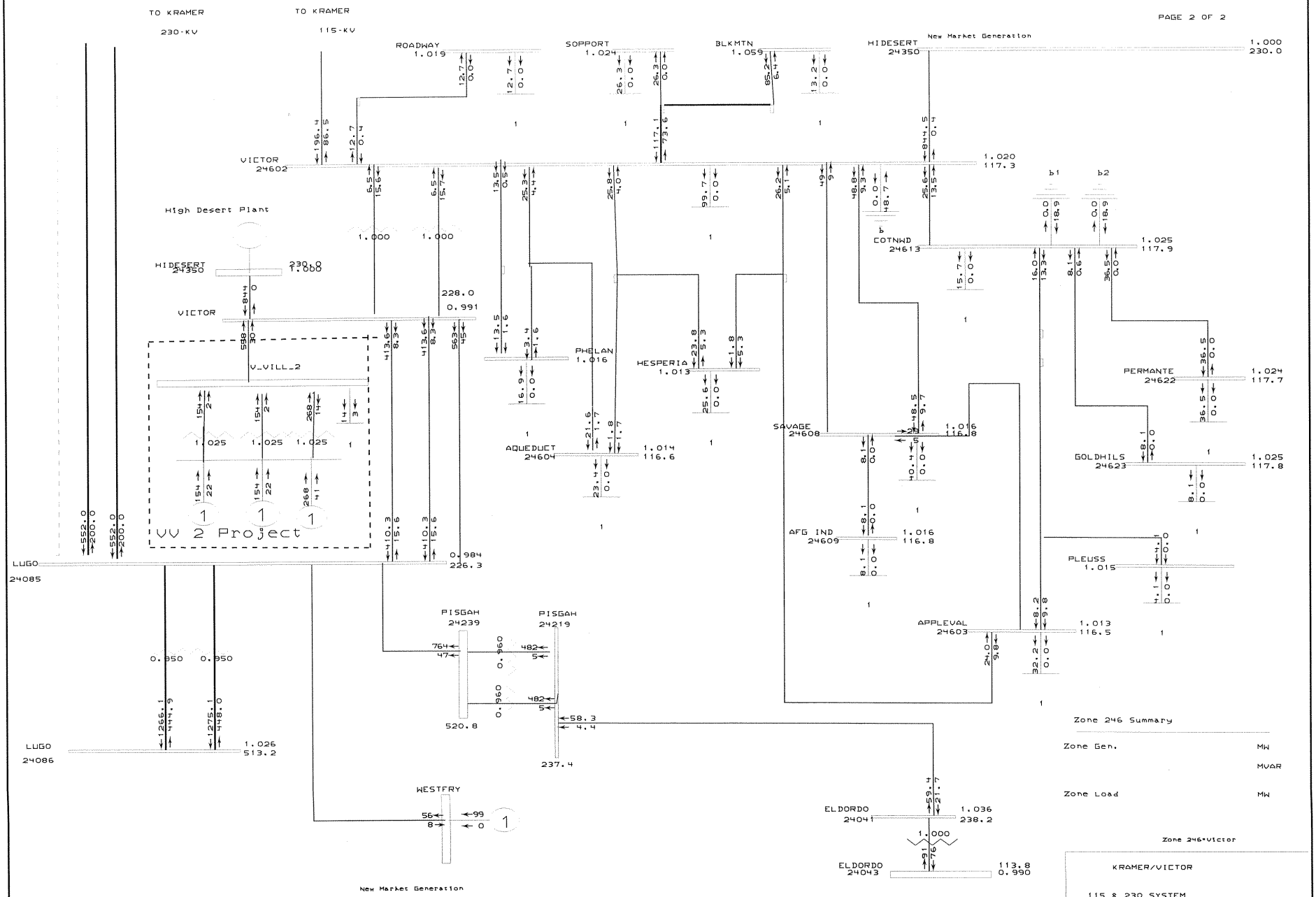


vv-2-2009hs-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 15:20:45 2007

	VICTORVILLE 2 PROJECT STUDIES 2009 HEAVY SUMMER CONDITION (1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

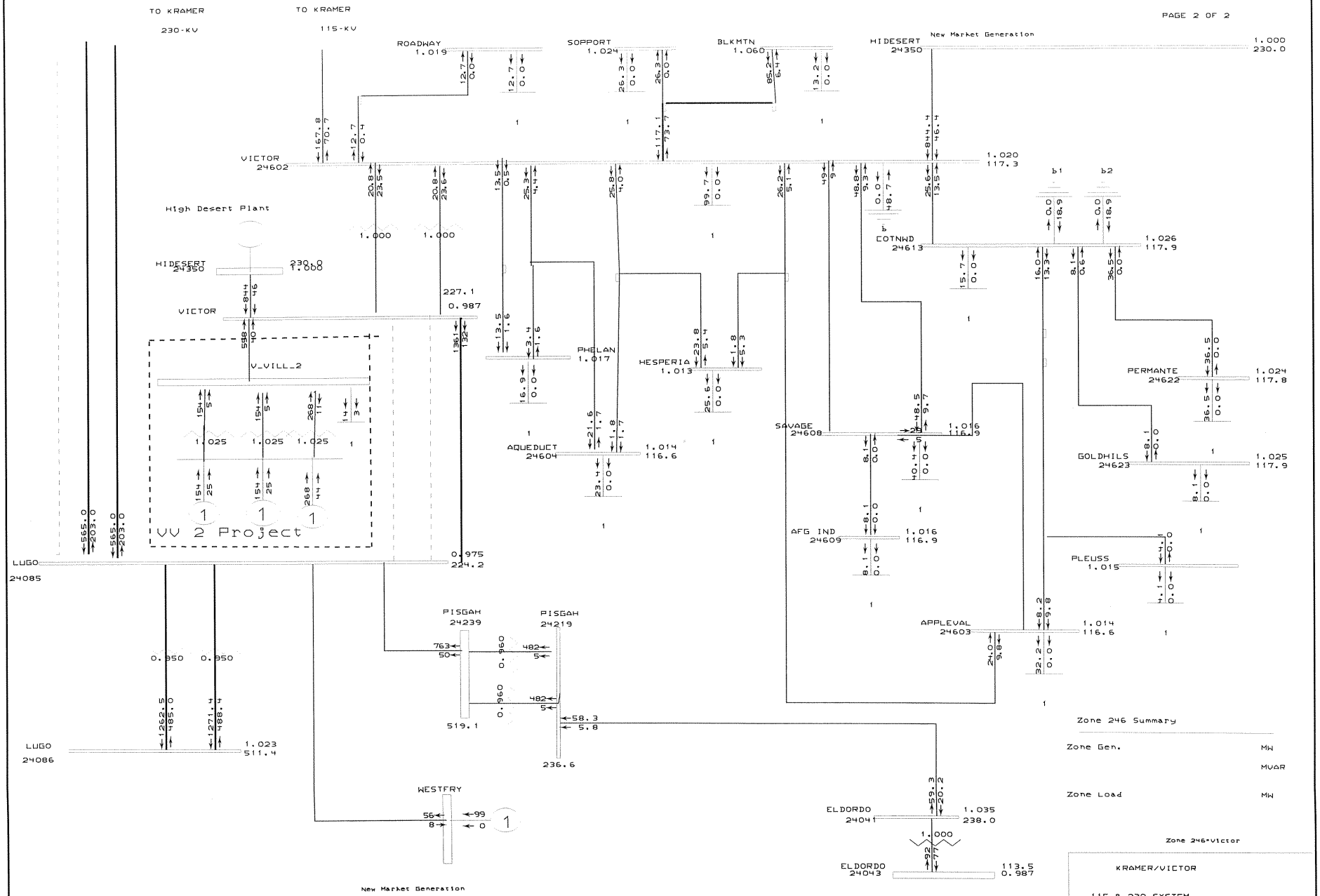


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:19:35 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2010LSP-POST PROJECT	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

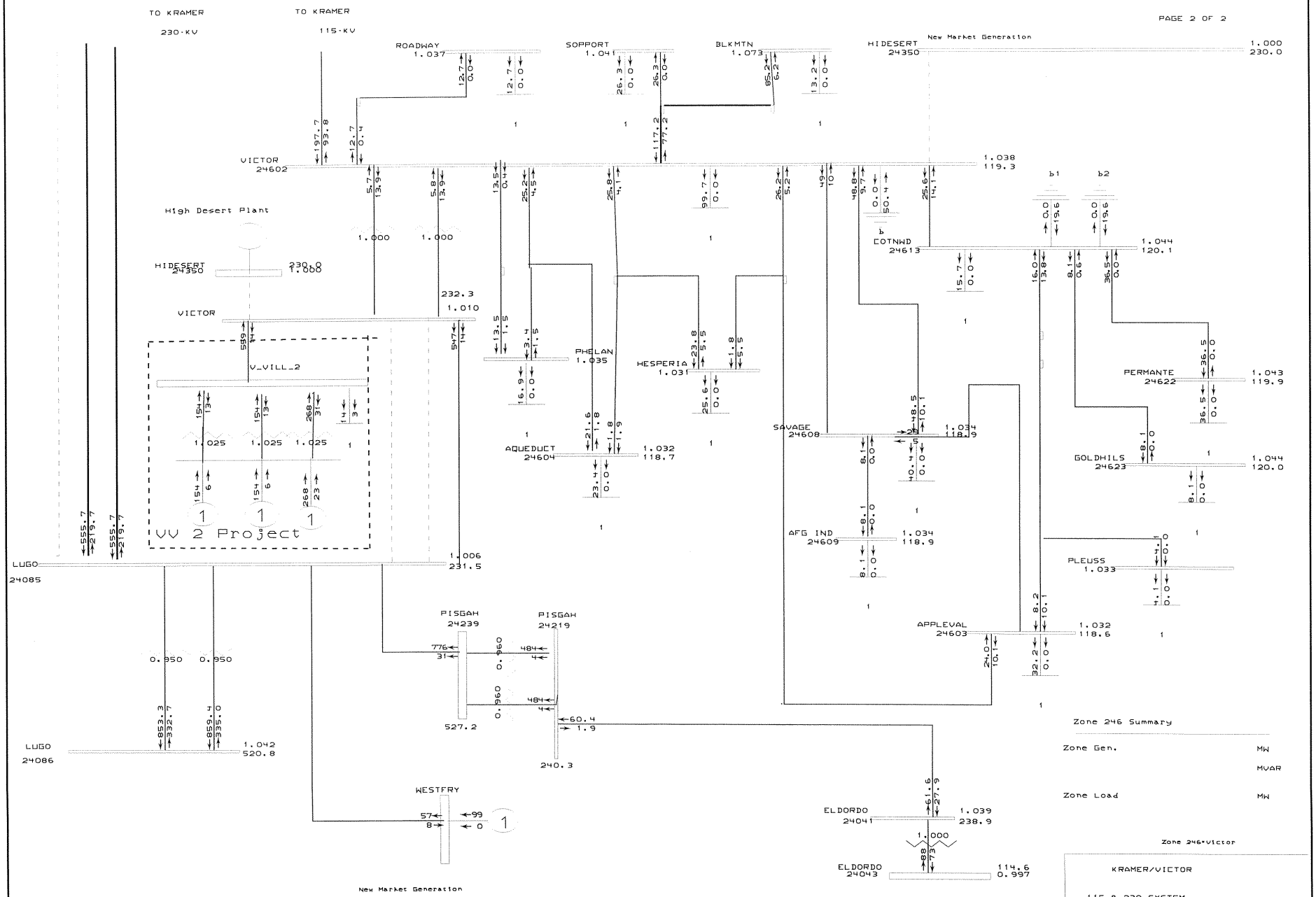


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:22:13 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR 230.00 - LUGO 230.00 1, VICTOR 230.00 - LUGO 230.00 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc\vv152\batch\D Rating = 1

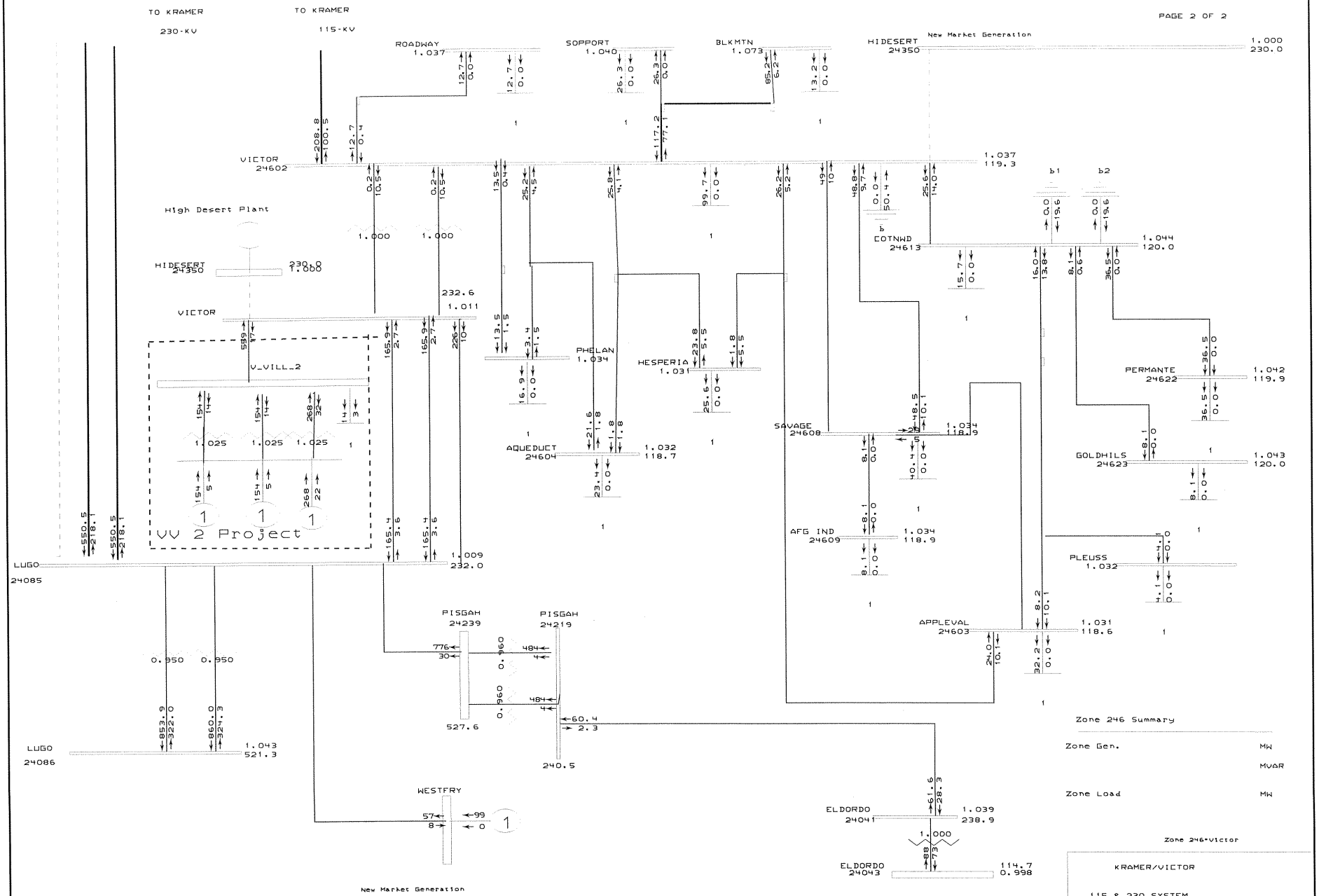


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:22:04 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR - LUGO 230 1, VICTOR - LUGO 230 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

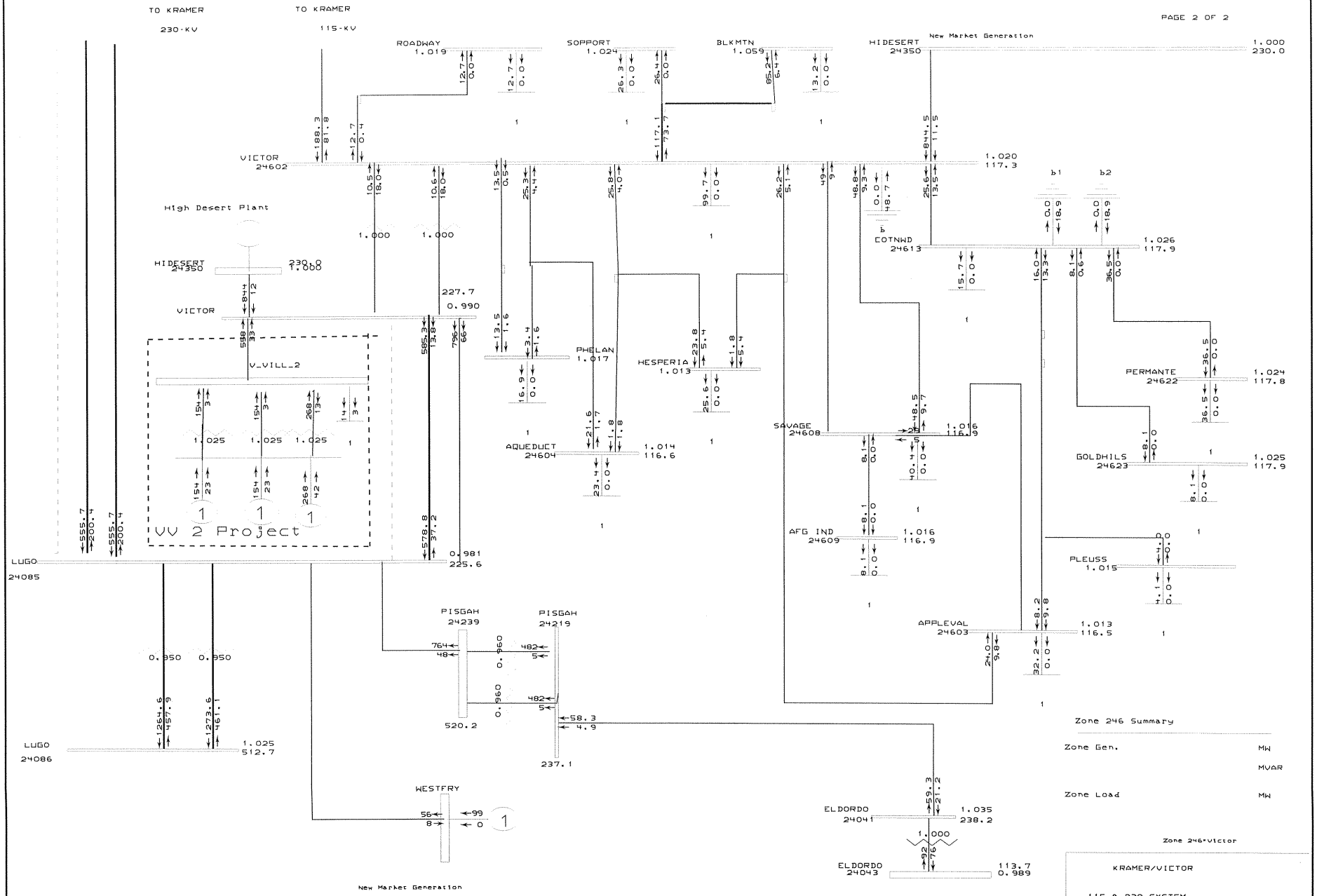


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:19:38 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line HIDESERT to VICTOR 230 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

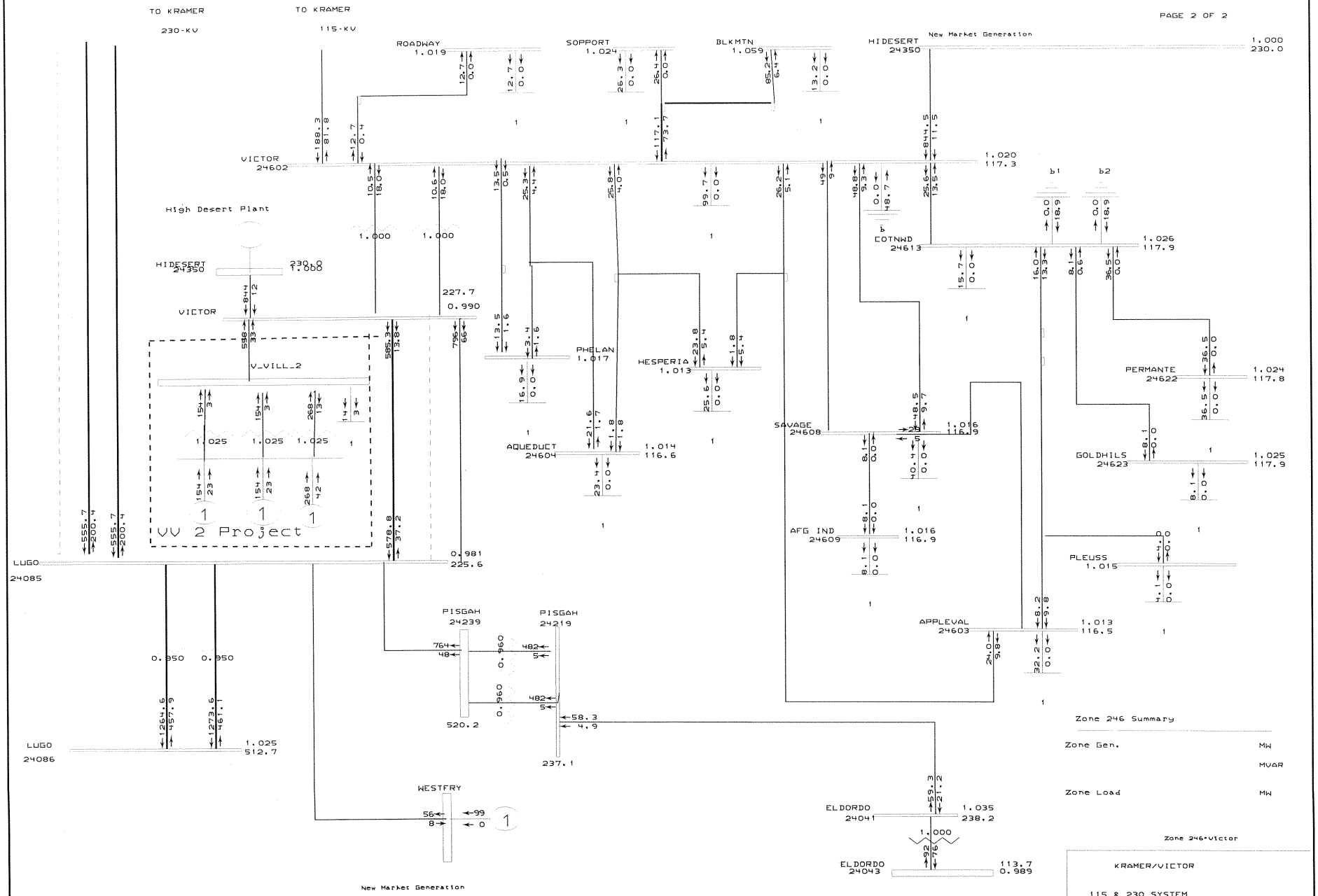


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:19:39 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ckt 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

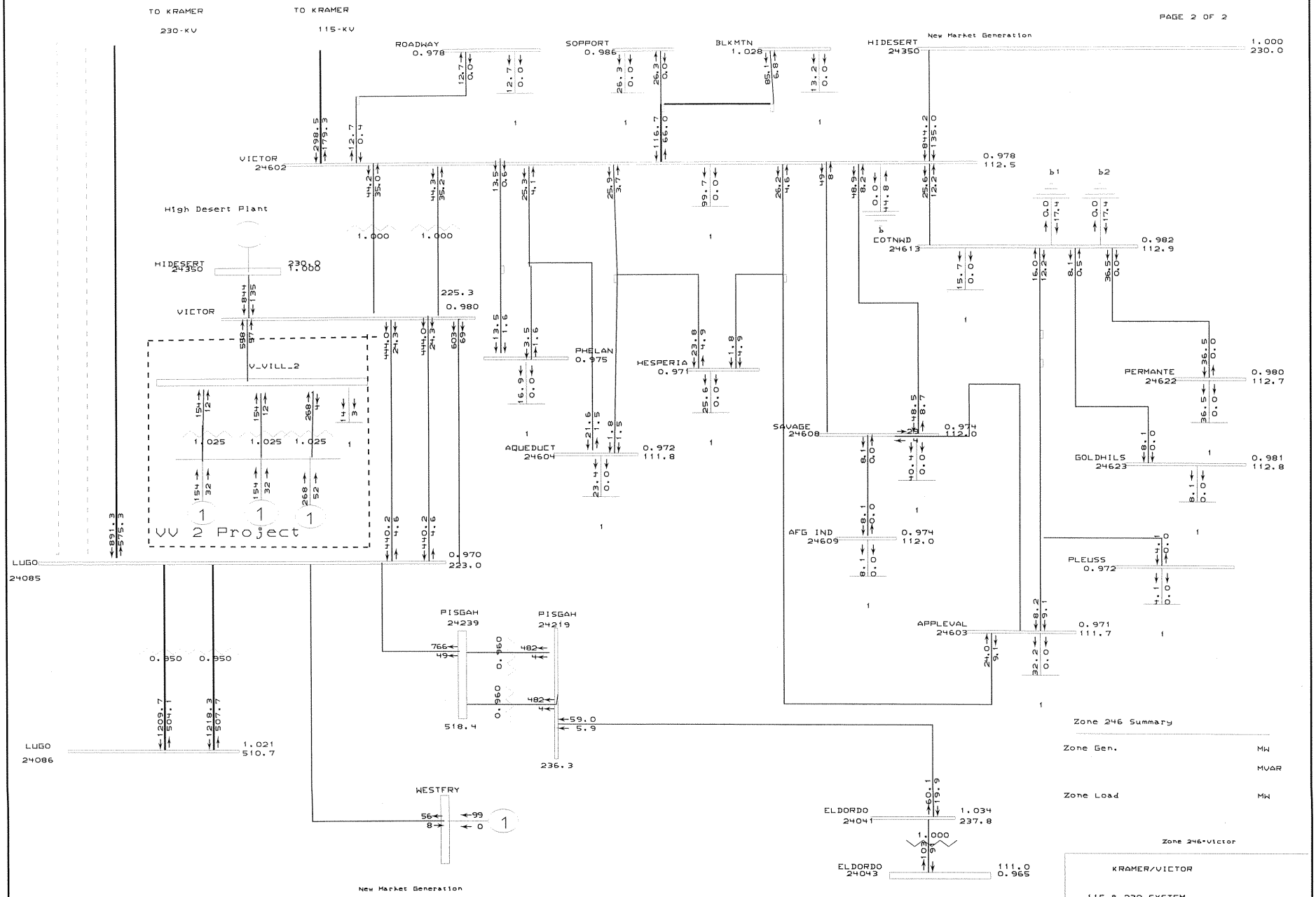


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:19:41 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating - 1

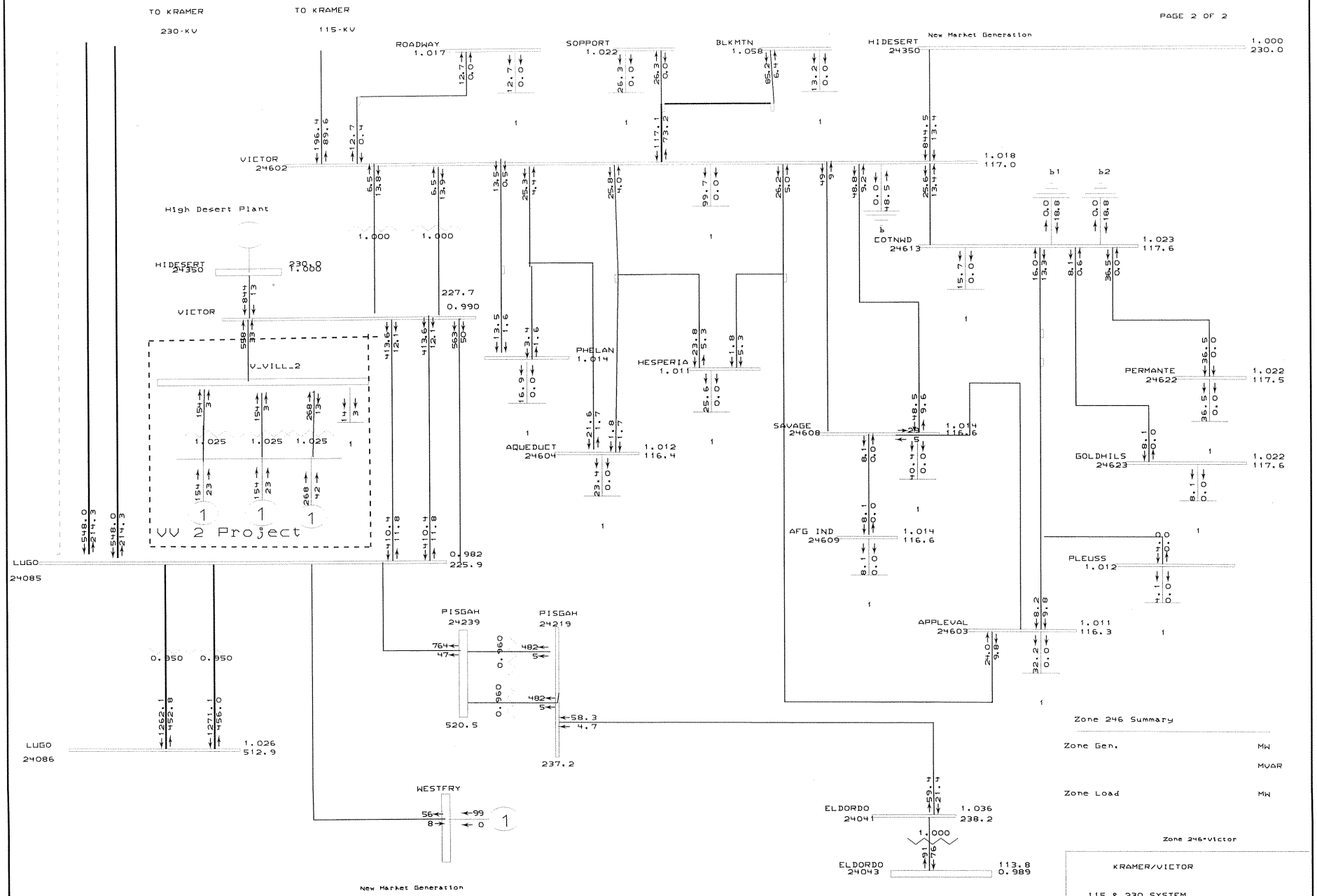


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:20:06 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

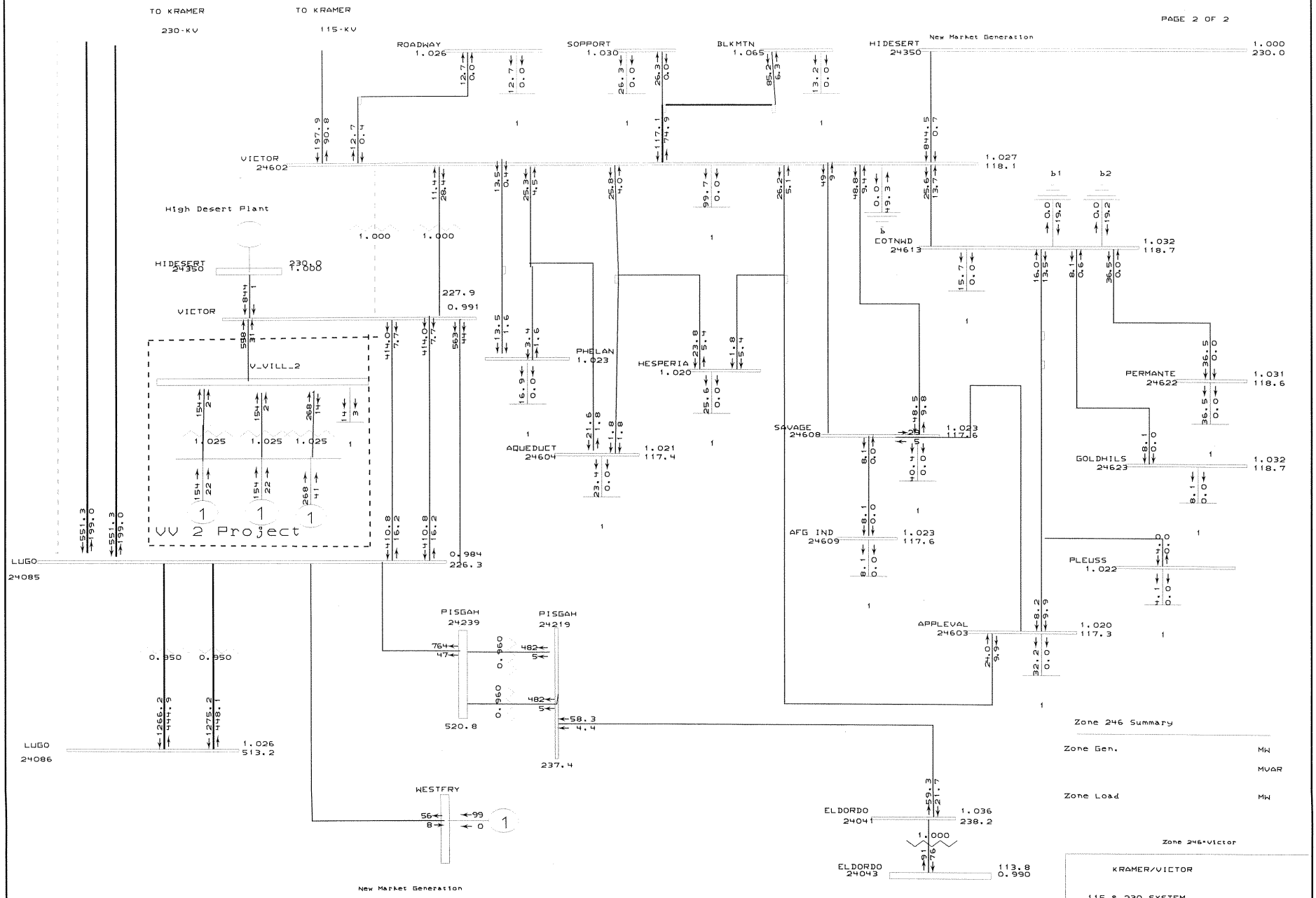


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:20:09 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

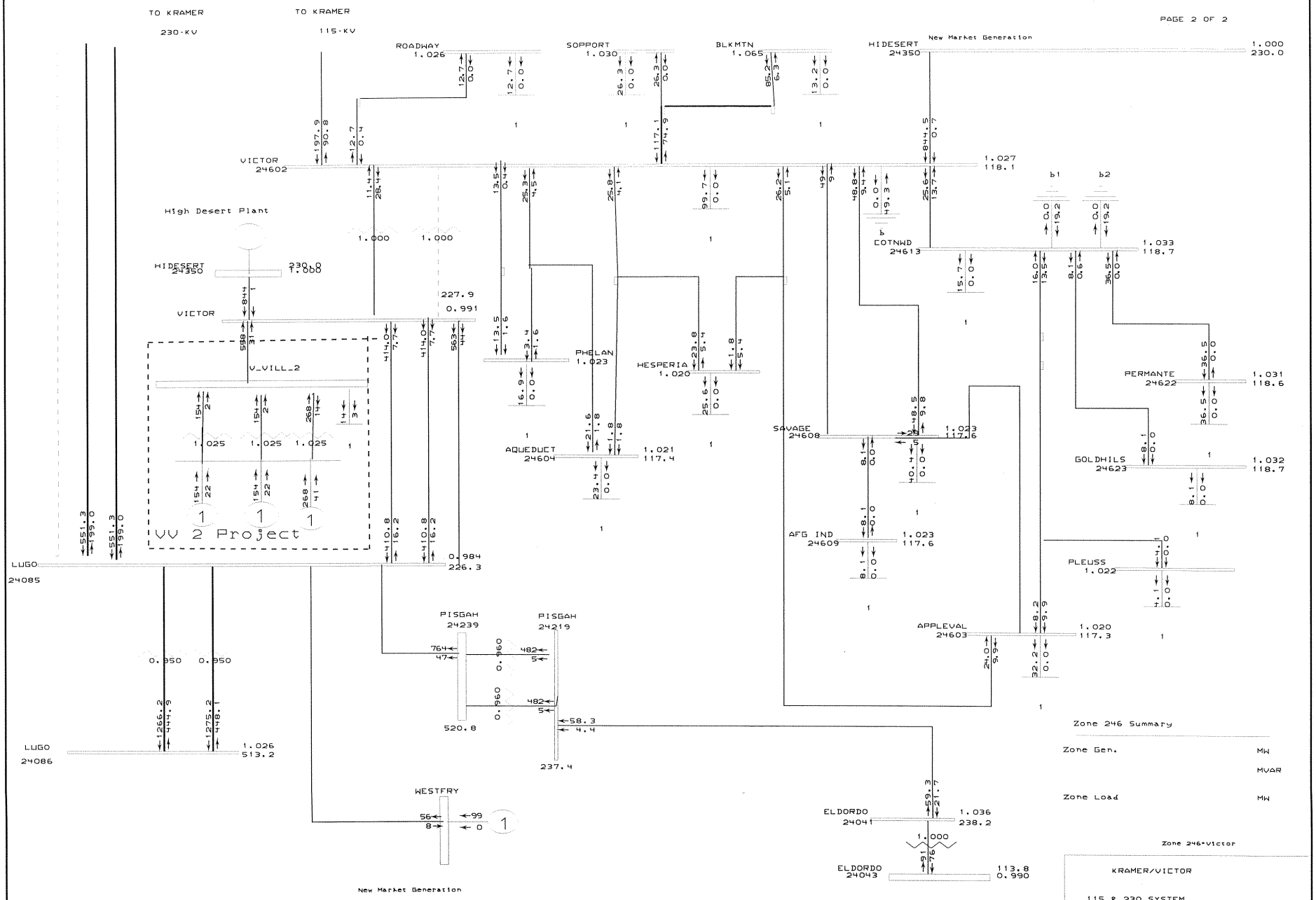


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:21:00 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

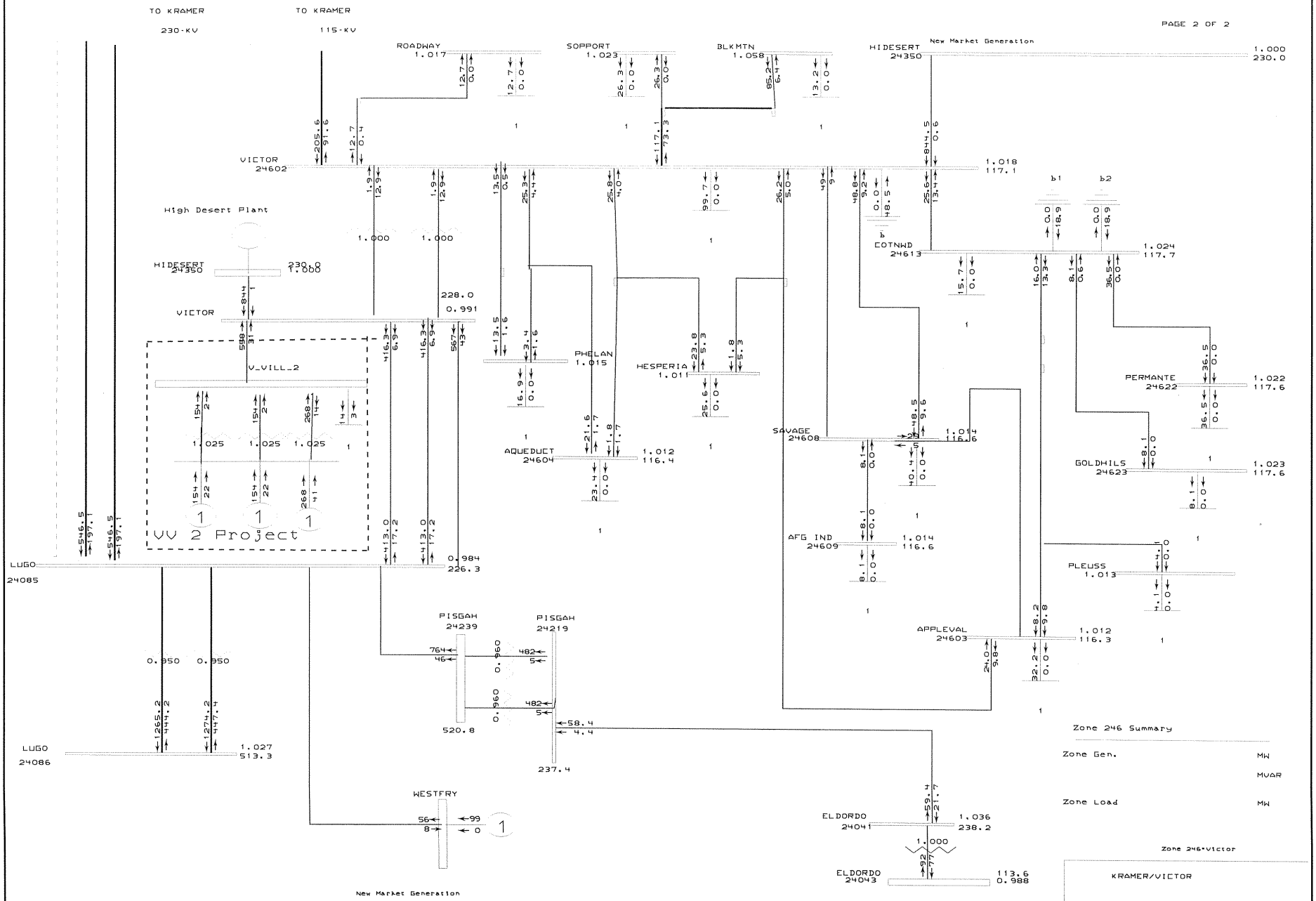


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:21:02 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

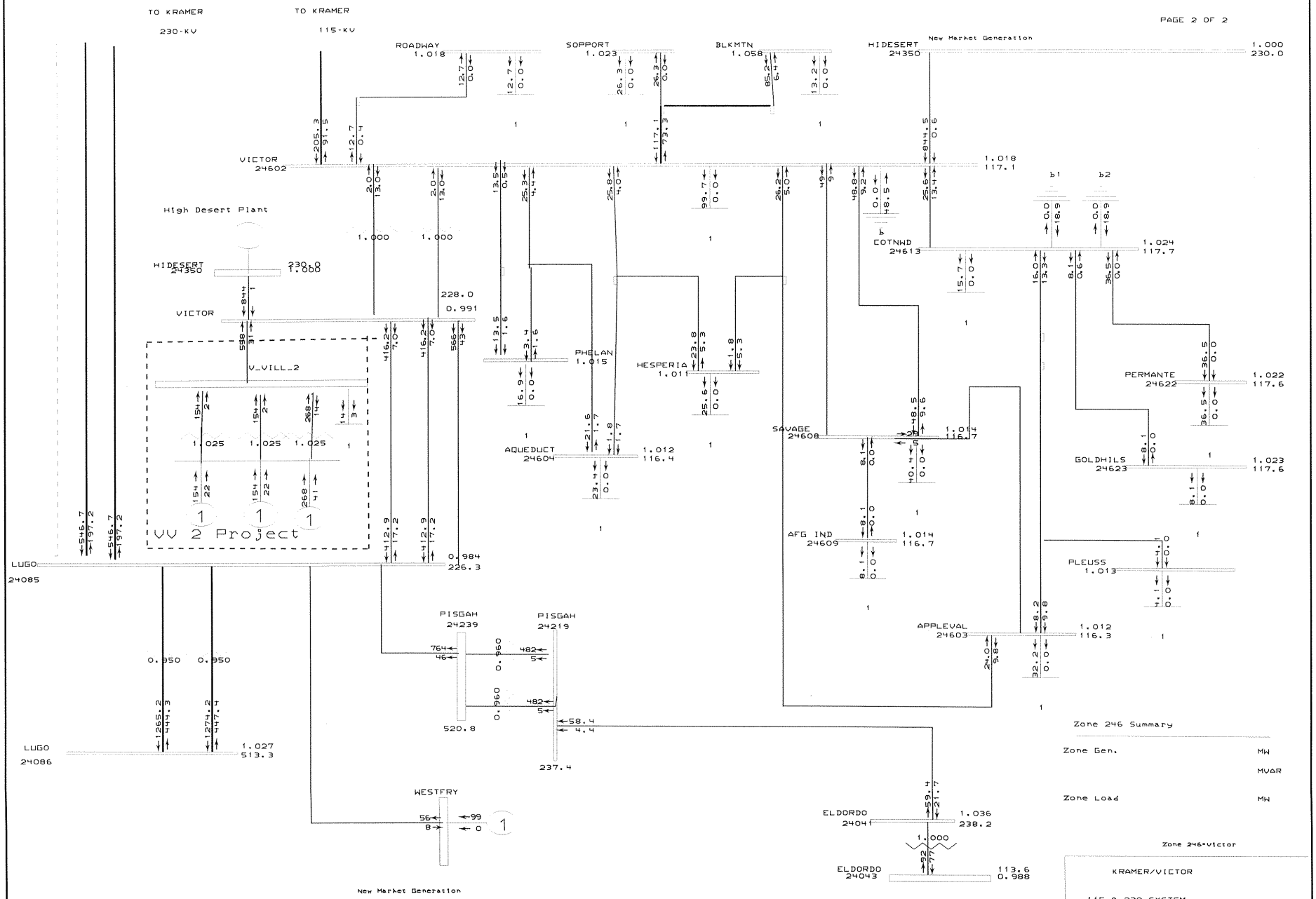


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:21:04 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

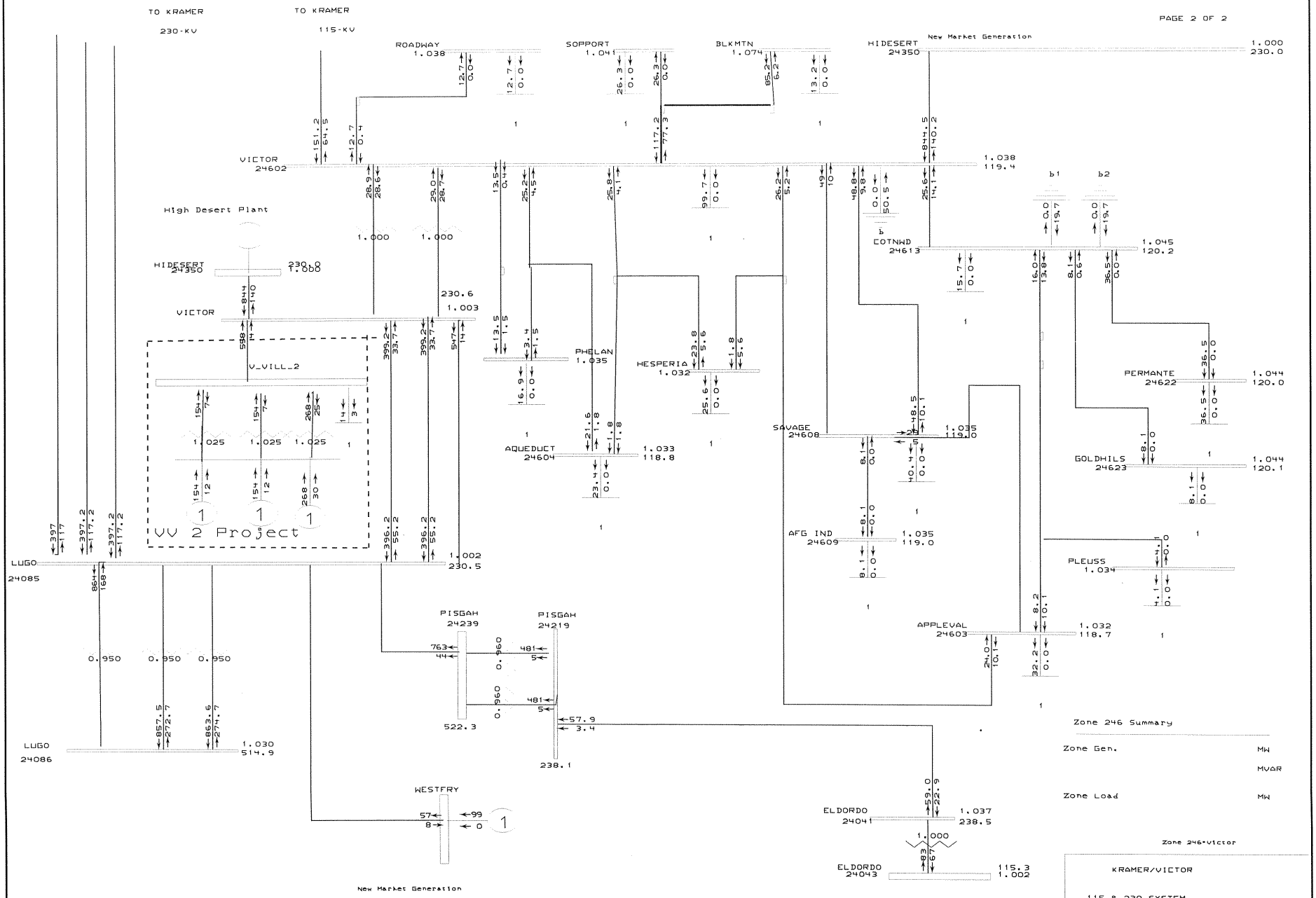


vv-2-2010sp-post.sav

MW/MVAR

Tue Apr 03 14:21:05 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

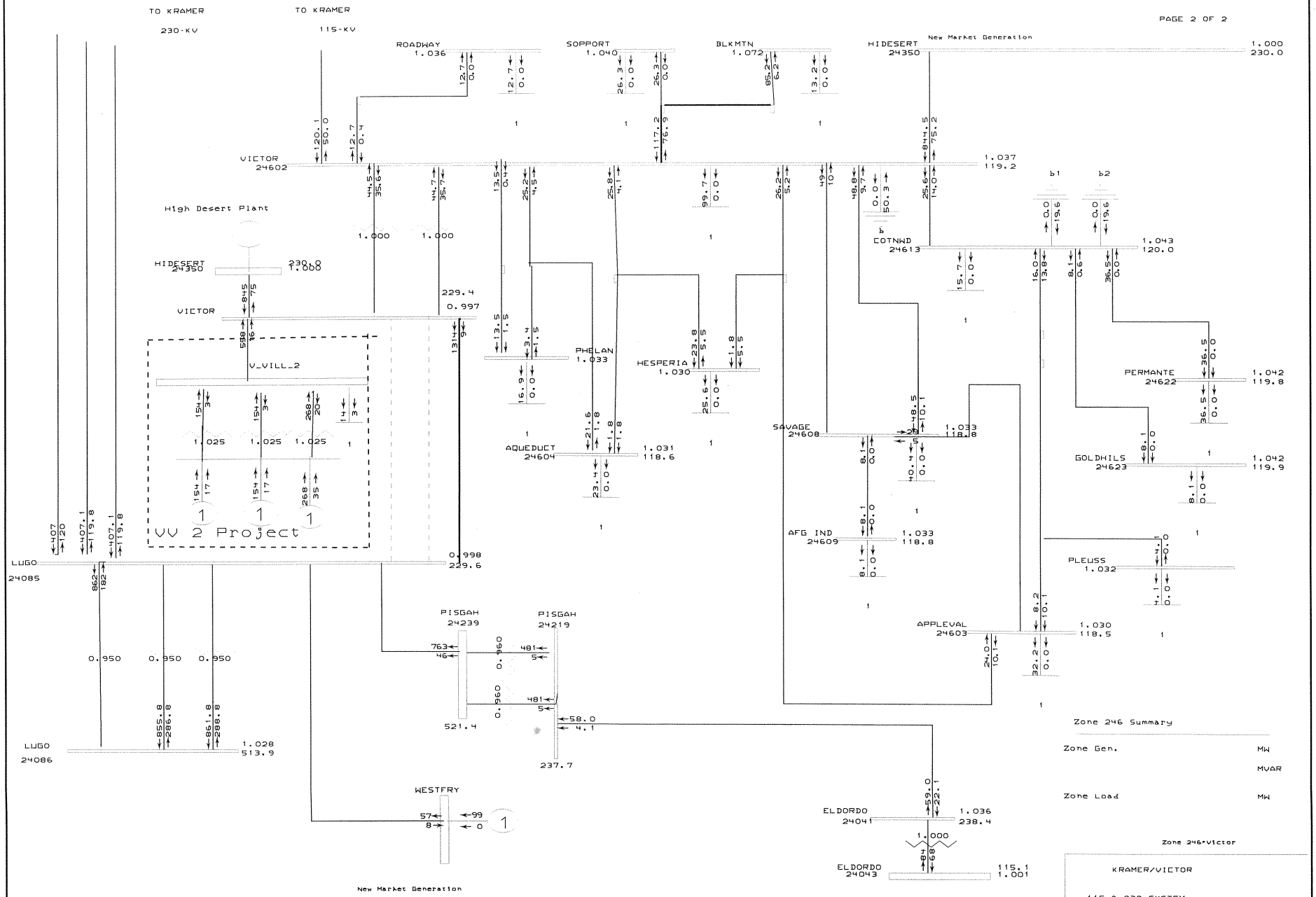


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:19:34 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

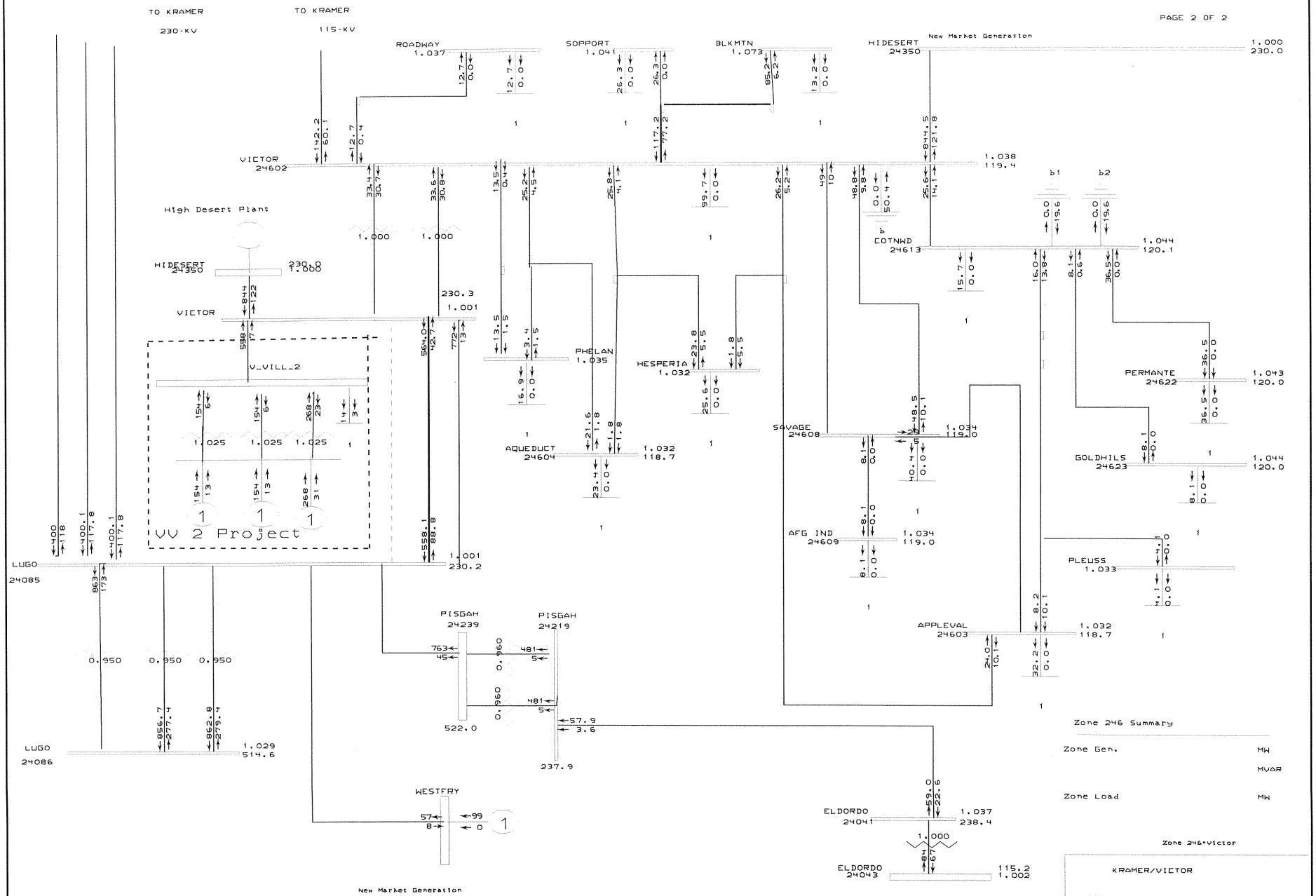


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:23:15 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 218 VICTOR 230.00 - LUGO 230.00 1, VICTOR 230.00 - LUGO 230.00 2	PSLF Program c:\epc1\vv152\batch\D Rating = 1

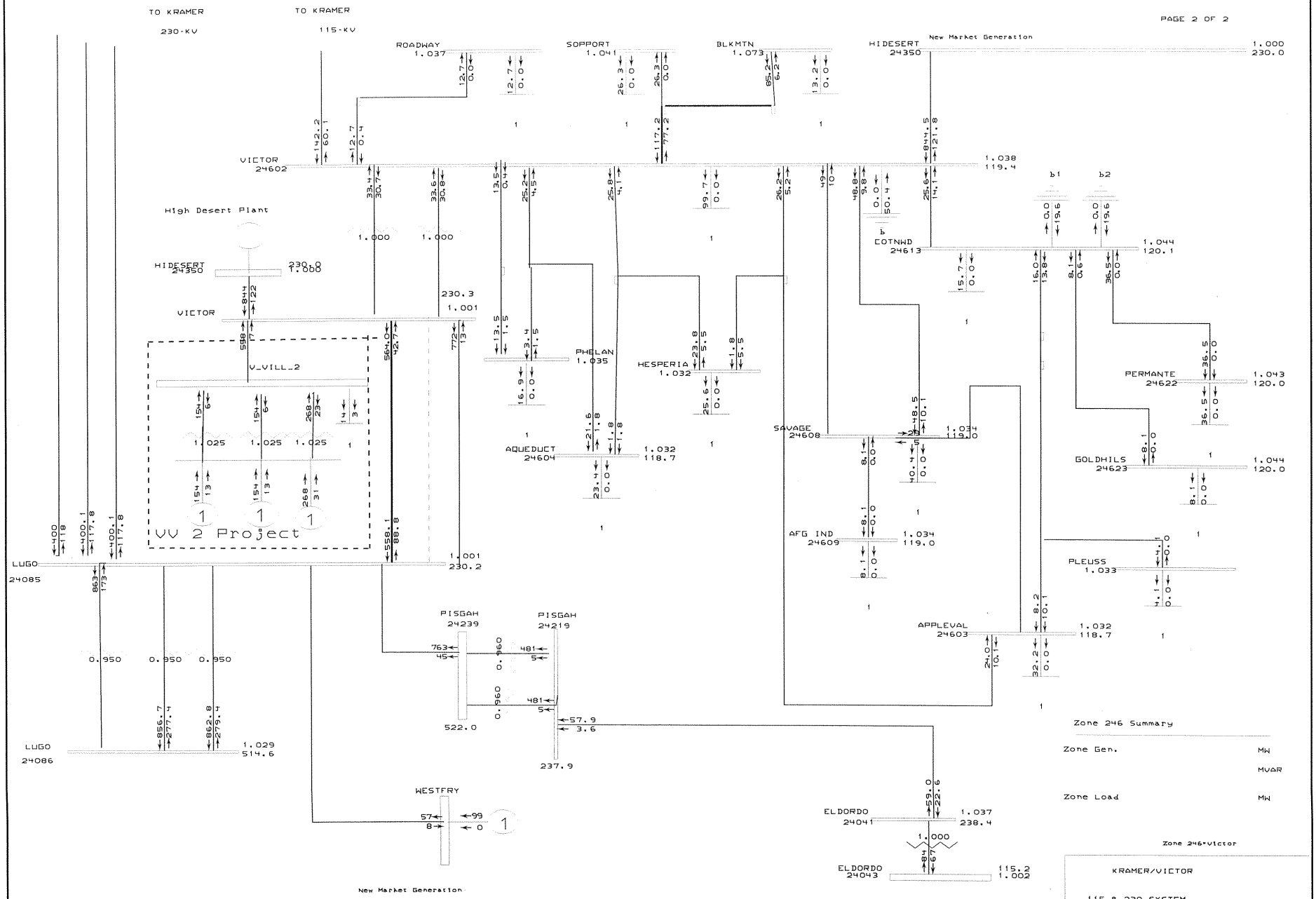


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:19:37 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 400 line VICTOR to LUGO 230 ck 1	PSLF Program c:\epc1\vv152\batch\D Rating = 1

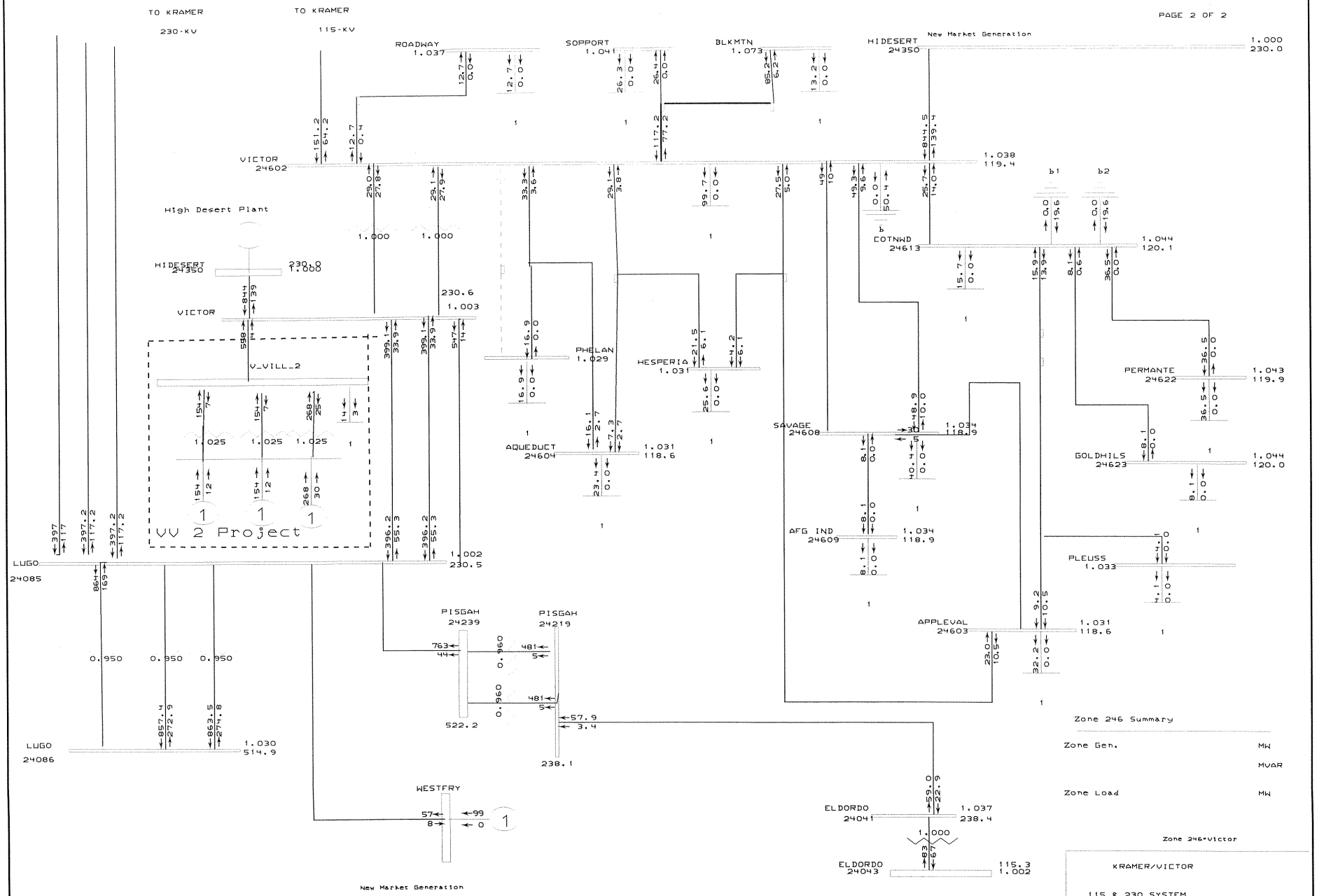


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:19:40 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 400 line VICTOR to LUGO 230 ck 2	PSLF Program c:\epc1\vv152\batch\D Rating = 1

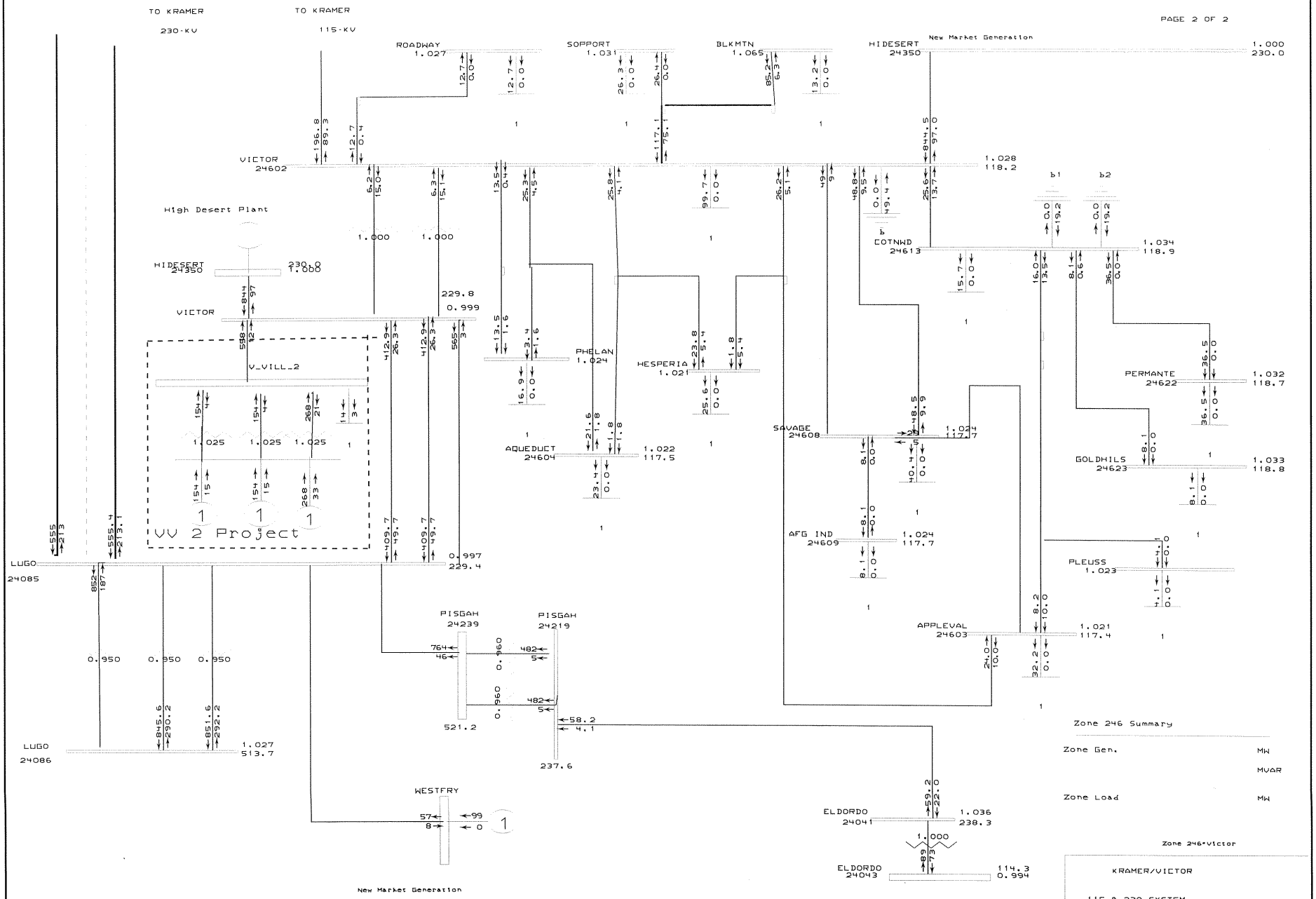


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

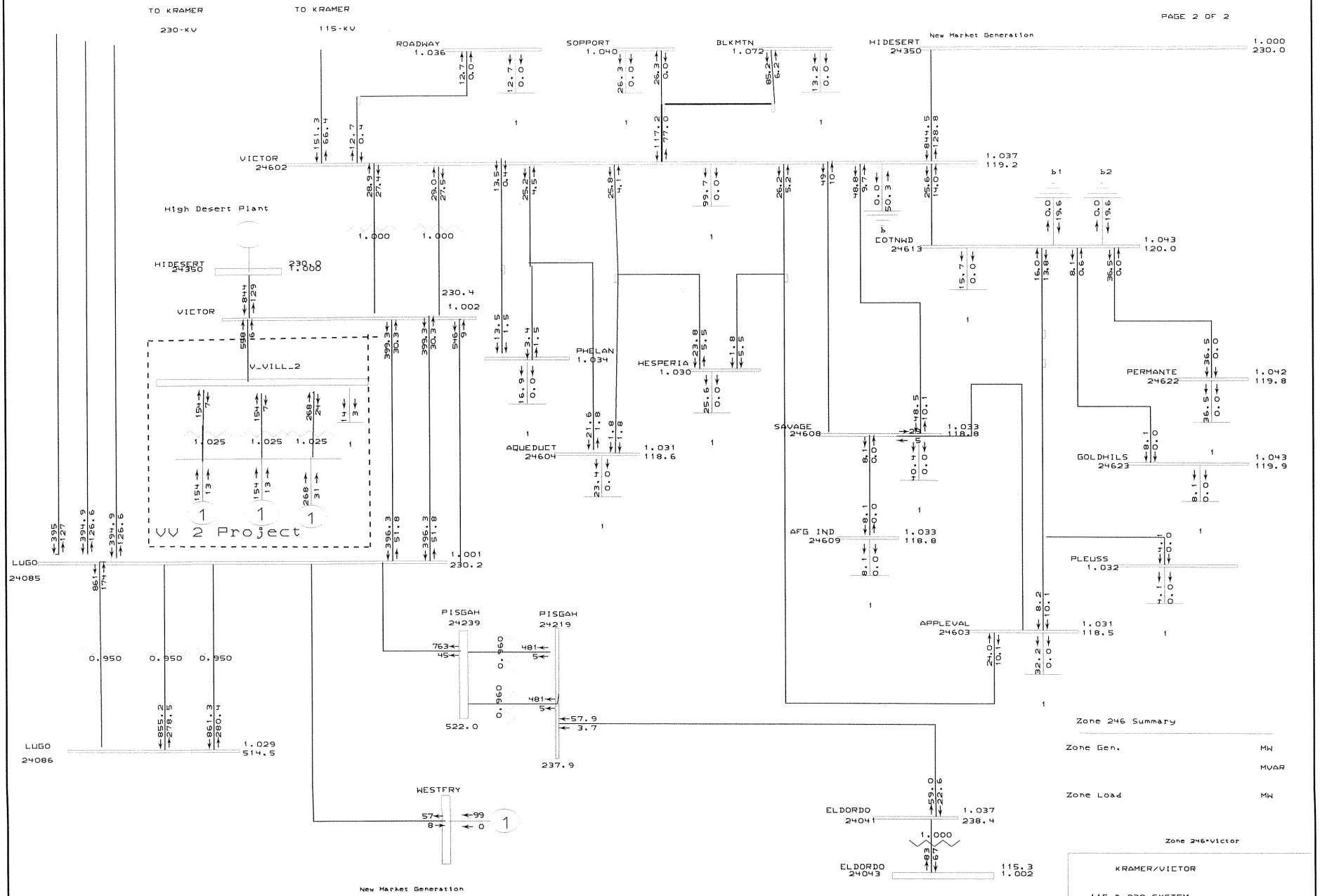
Mon Apr 02 16:19:43 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 400 line VICTOR to PHELAN 115 ckt 1	PSLF Program c:\epc1\v152\batch\D Rating = 1



vv-2-2010sp-post-allupgrades.sav | MW/MVAR | Mon Apr 02 16:20:20 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 403 line KRAMER to LUGO 230 ck 2	PSLF Program c:\epcl\vv152\batch\D Rating = 1

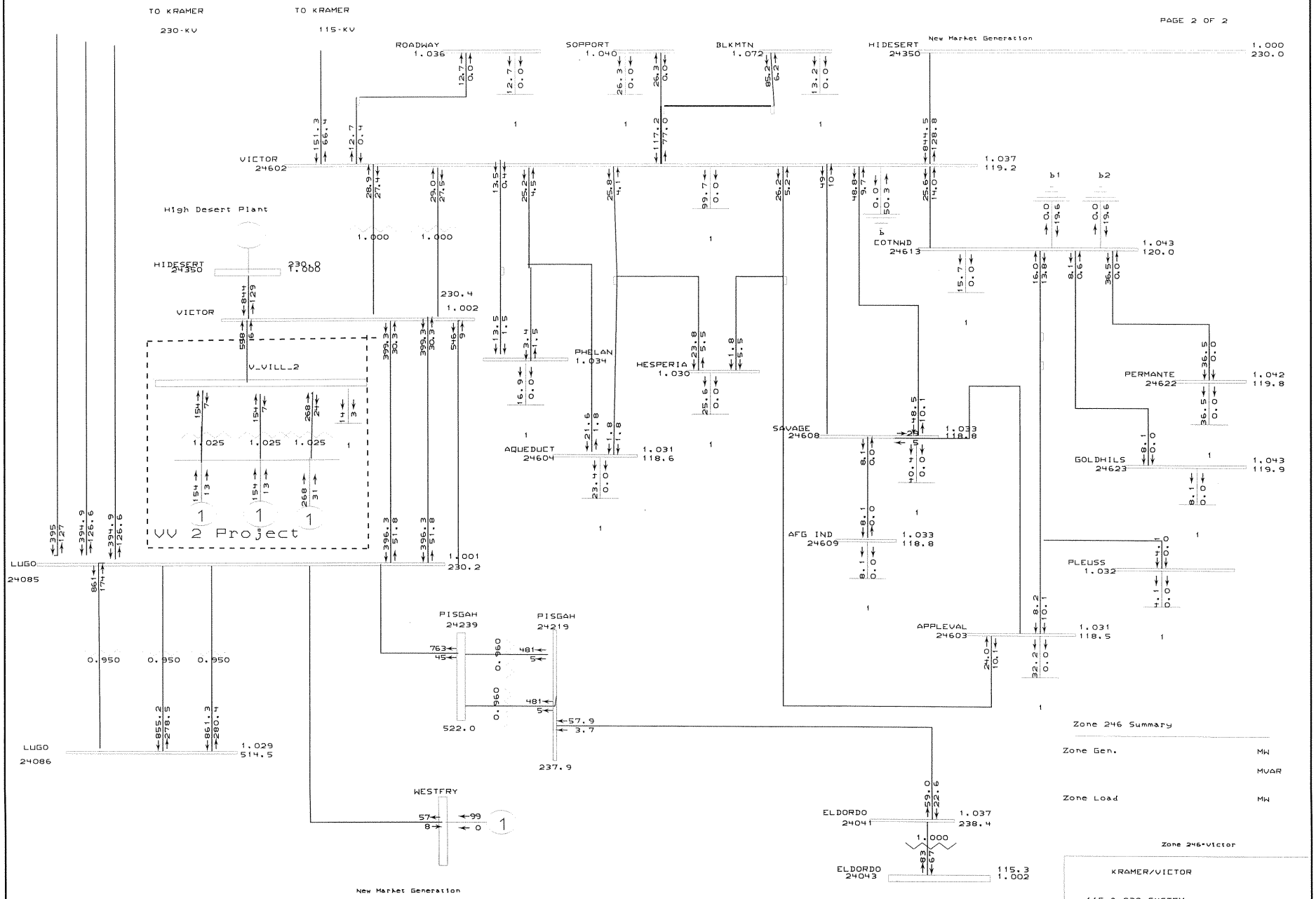


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

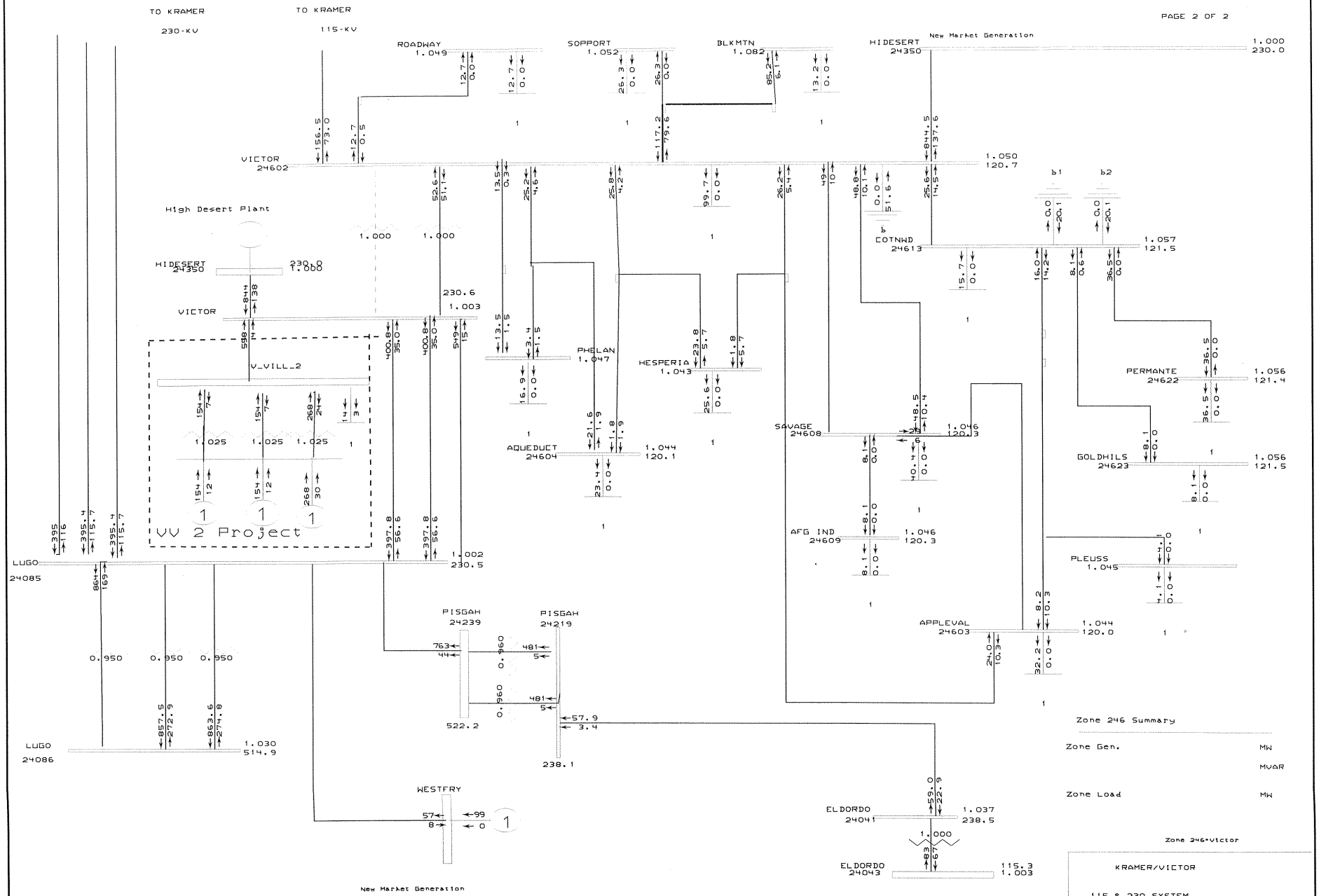
Mon Apr 02 16:20:23 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 403 line KRAMER to COLWATER 230 ck 1	PSLF Program c:\epcl\v152\batch\D Rating = 1



vv-2-2010sp-post-allupgrades.sav MW/MVAR Mon Apr 02 16:20:26 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 403 line KRAMER to COLWATER 230 ck 2	PSLF Program c:\epcl\vf152\batch\D Rating = 1

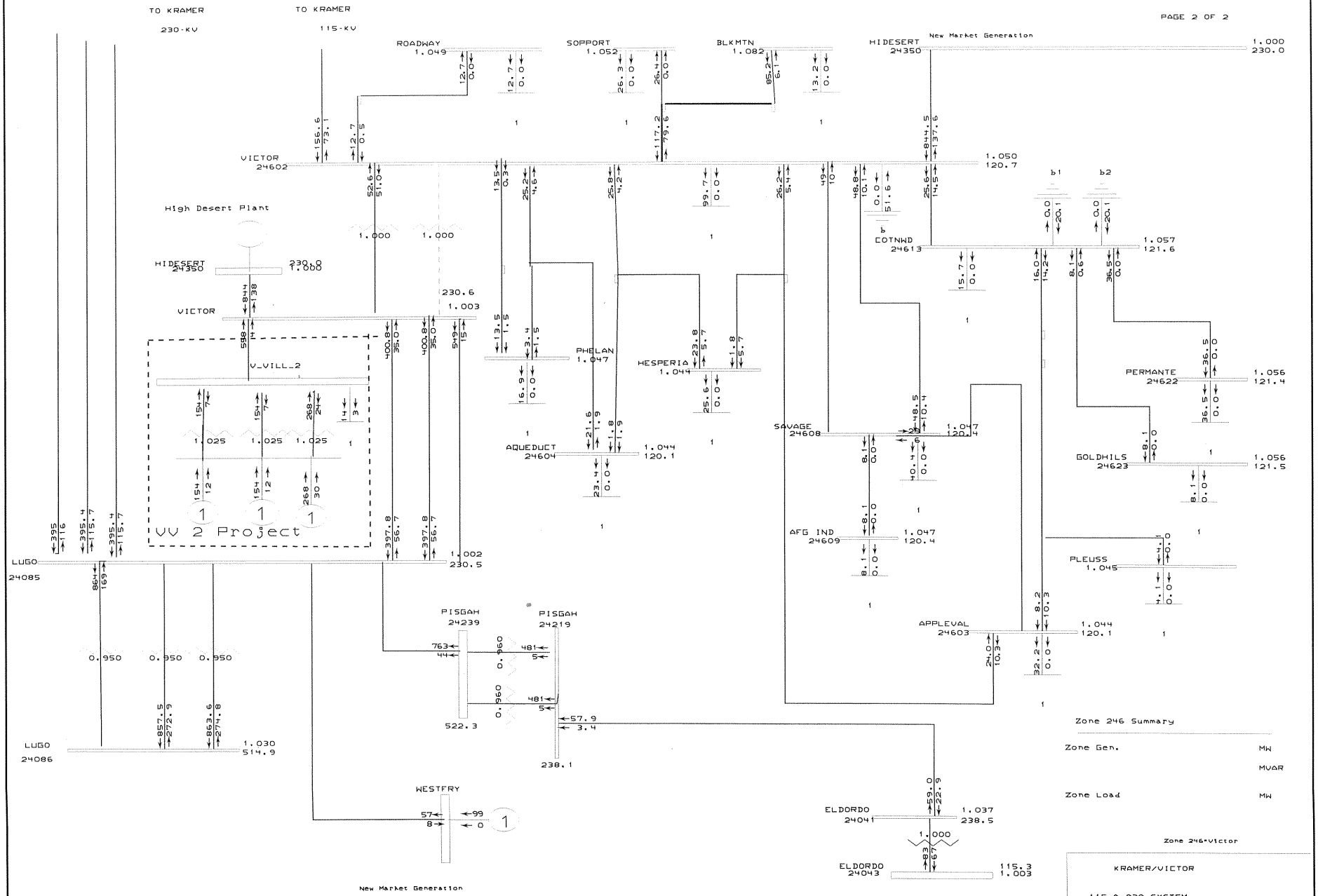


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:21:45 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 408 tran VICTOR 230 to VICTOR 115 ck 1	PSLF Program c:\epcl\vv152\batch\D Rating = 1

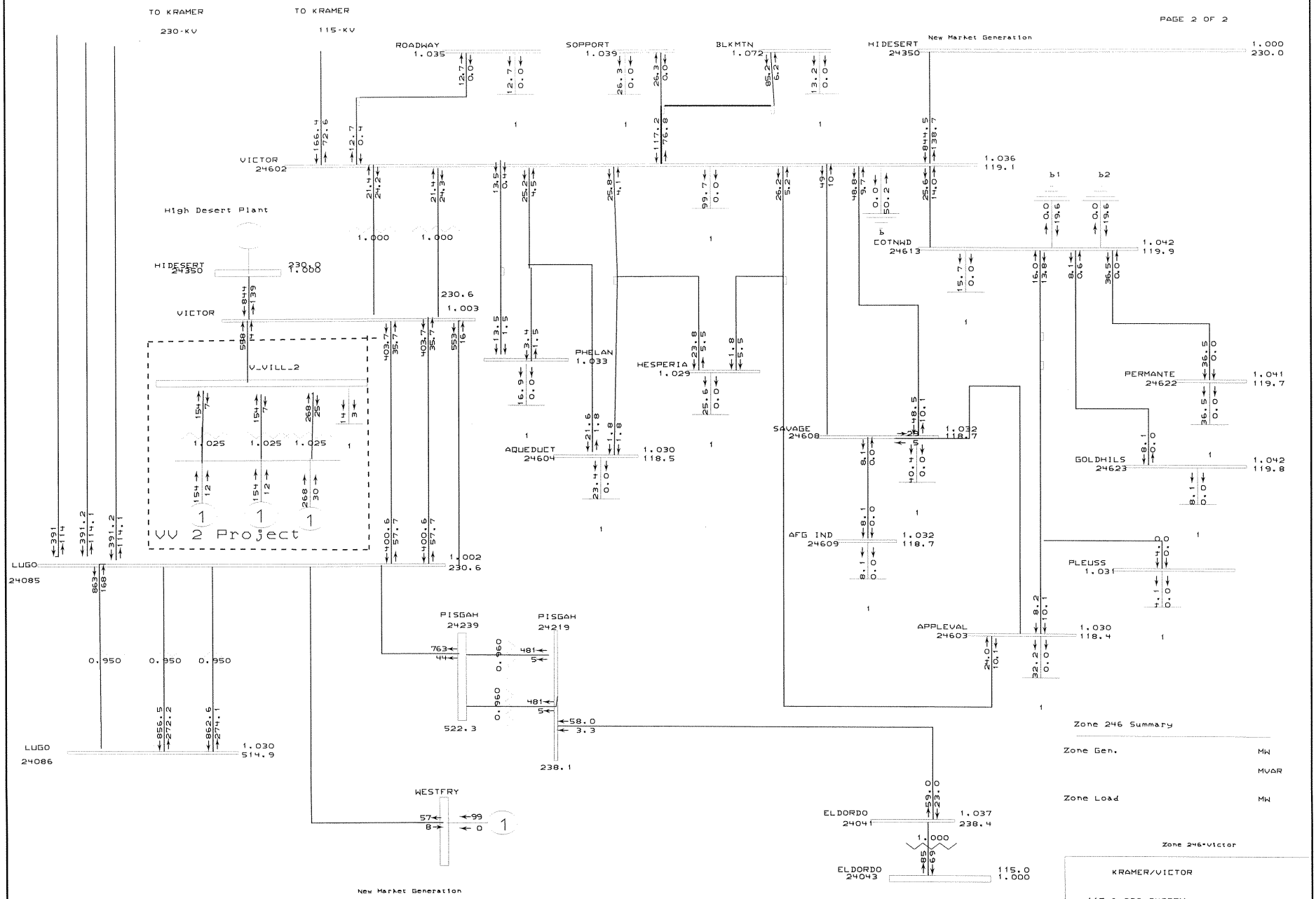


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:21:48 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 408 tran VICTOR 230 to VICTOR 115 ck 2	PSLF Program c:\epcl\vv152\batch\D Rating = 1

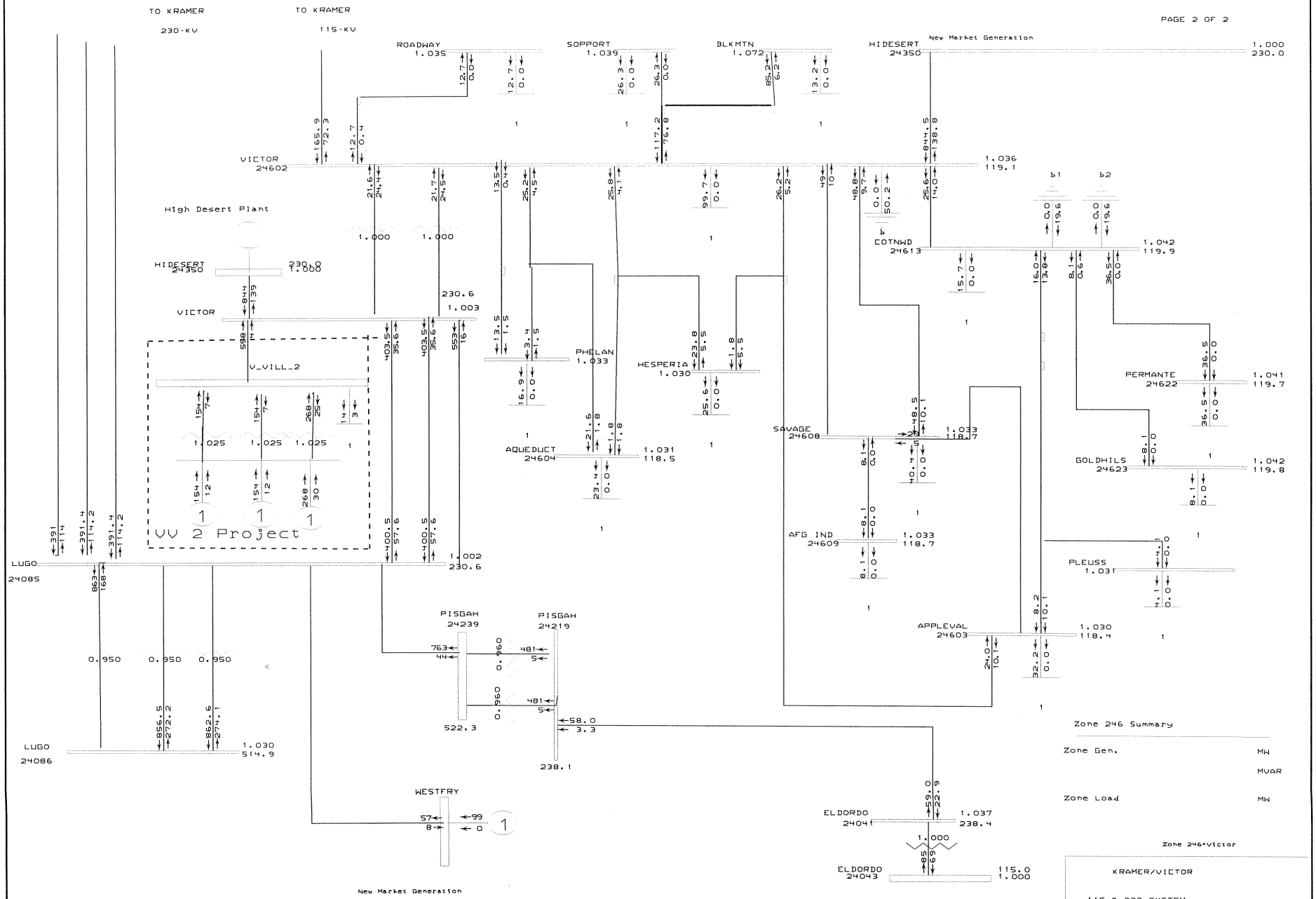


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:21:50 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 408 tran KRAMER 230 to KRAMER 115 ck 1	PSLF Program c:\epc1\vv152\batch\D Rating = 1

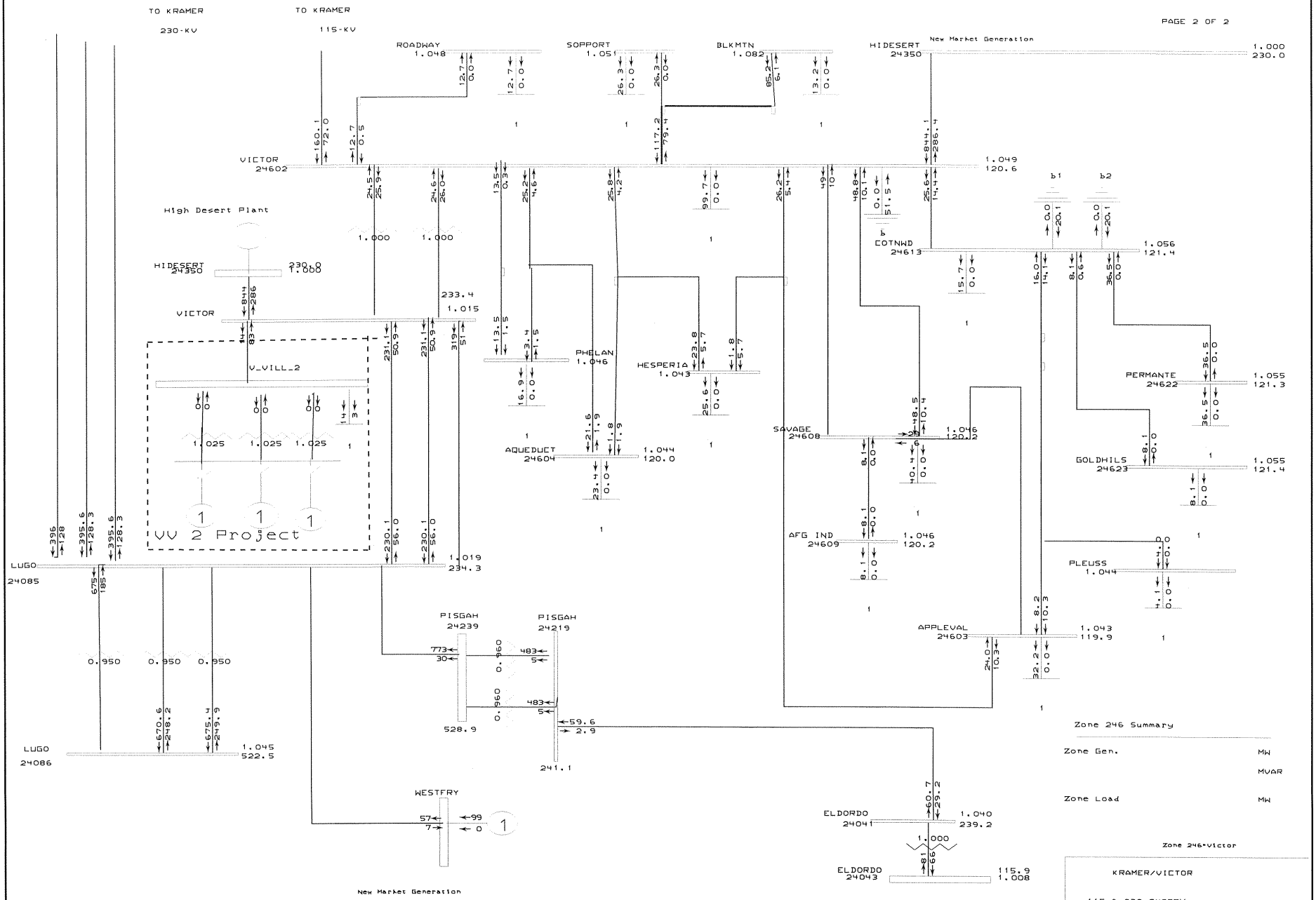


vv-2-2010sp-post-allupgrades.sav

MW/MVAR

Mon Apr 02 16:21:53 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) CASE NAME: VV2_2010LSP-POST PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE 408 tran KRAMER 230 to KRAMER 115 ck 2	PSLF Program c:\epcl\vv152\batch\D Rating = 1

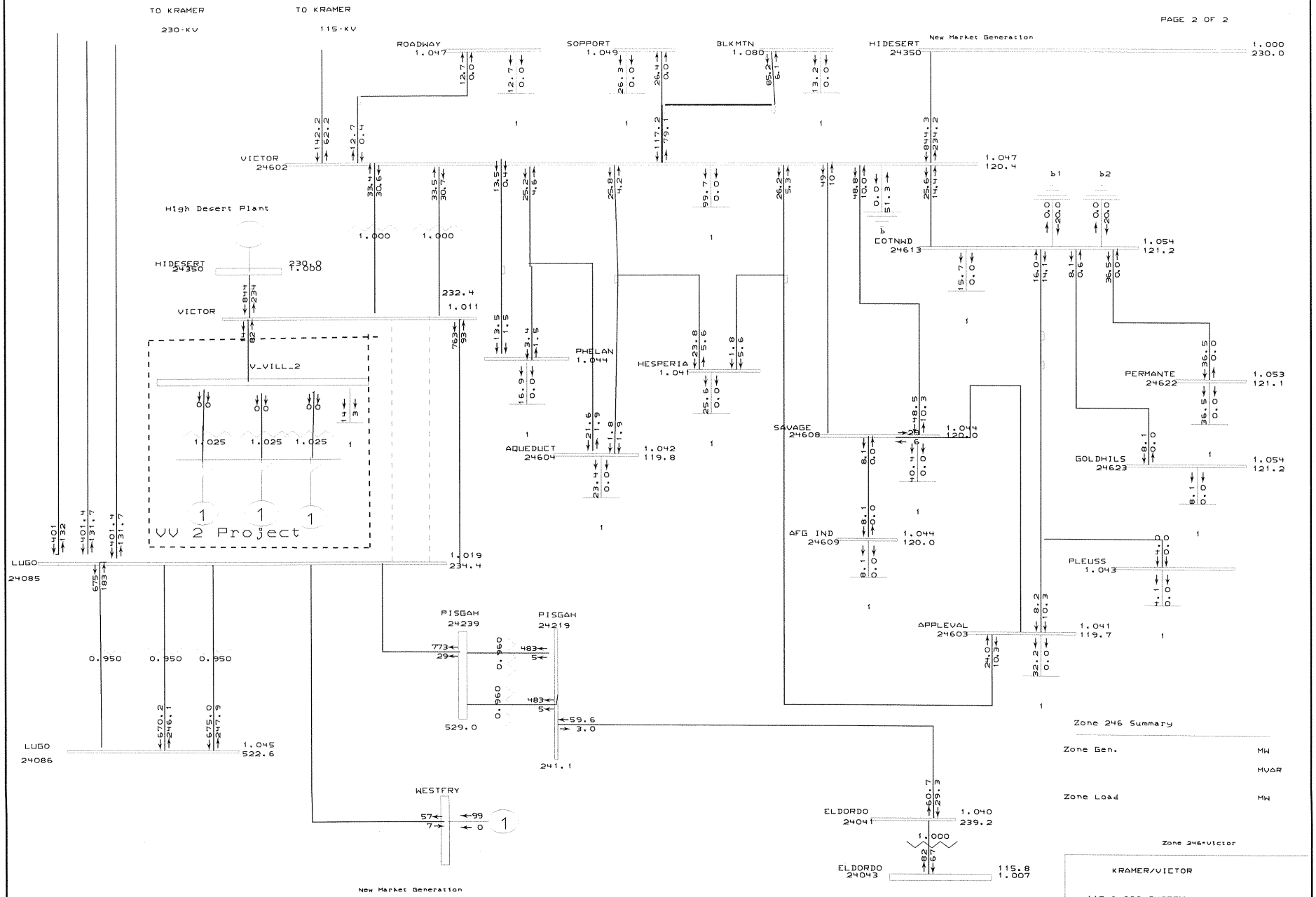


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

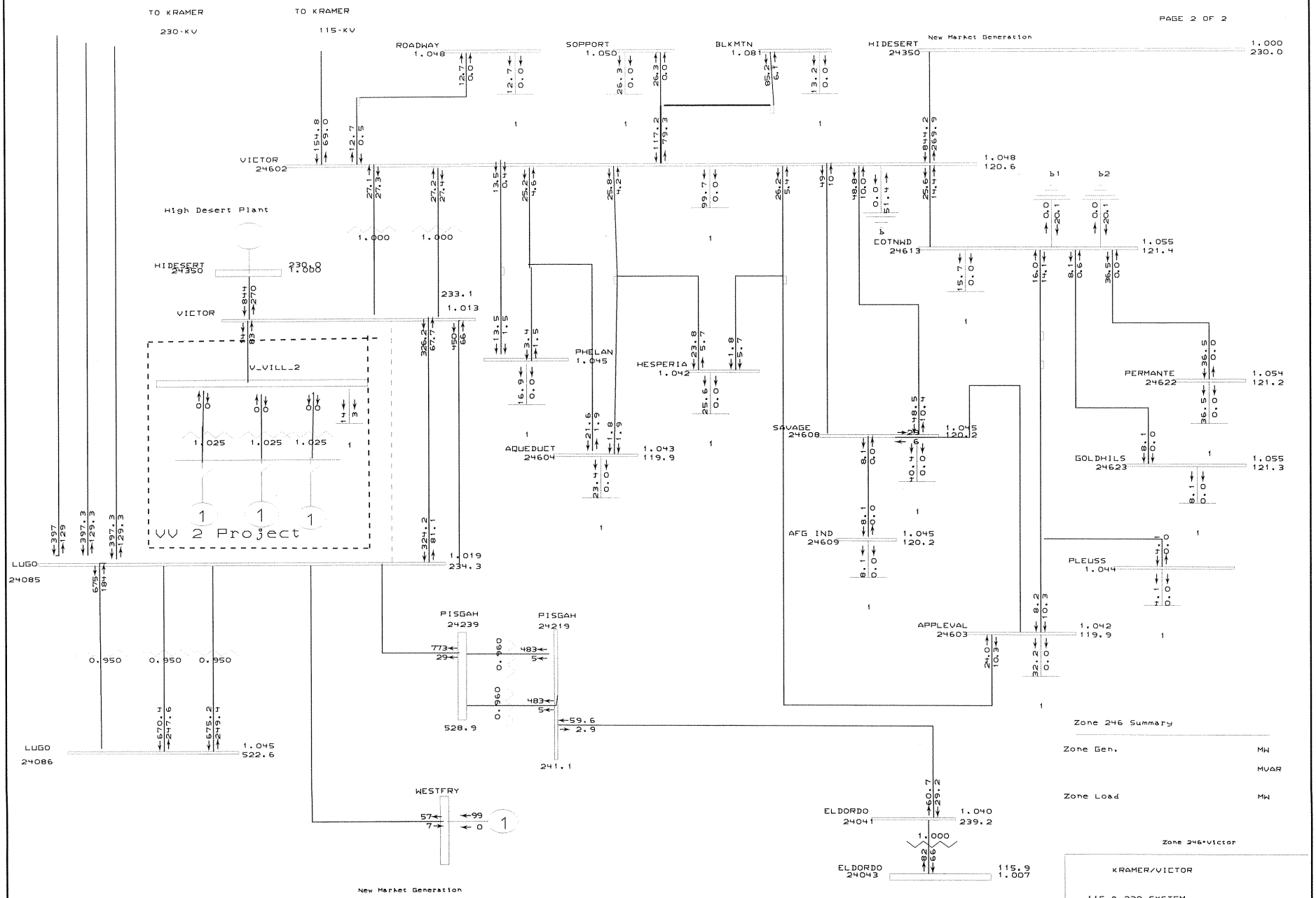
Tue Apr 03 13:05:20 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2010LSP-PRE PROJECT	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1



vv-2-2010sp-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 13:07:52 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR 230.00 - LUGO 230.00 1, VICTOR 230.00 - LUGO 230.00 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

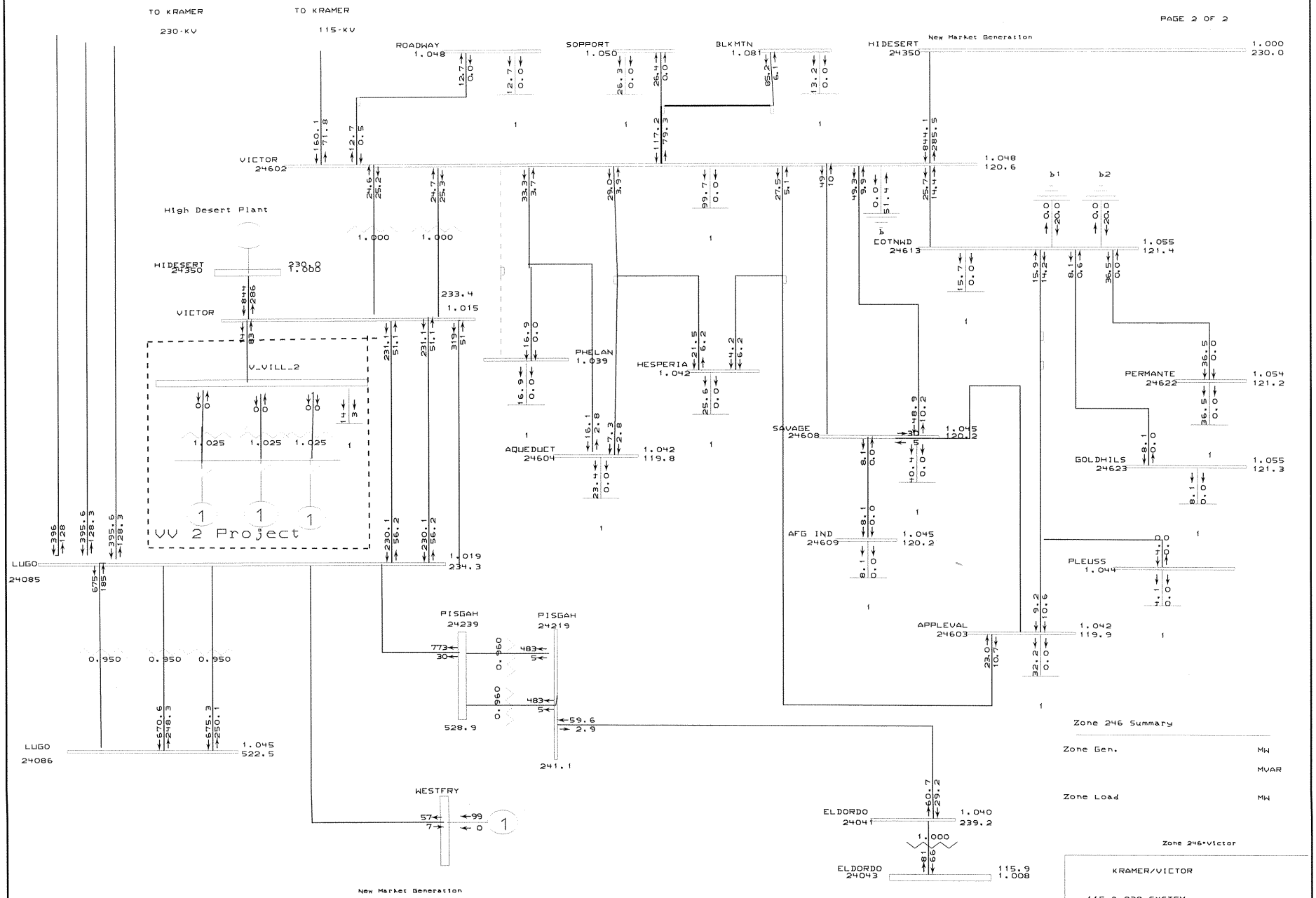


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 13:05:22 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1

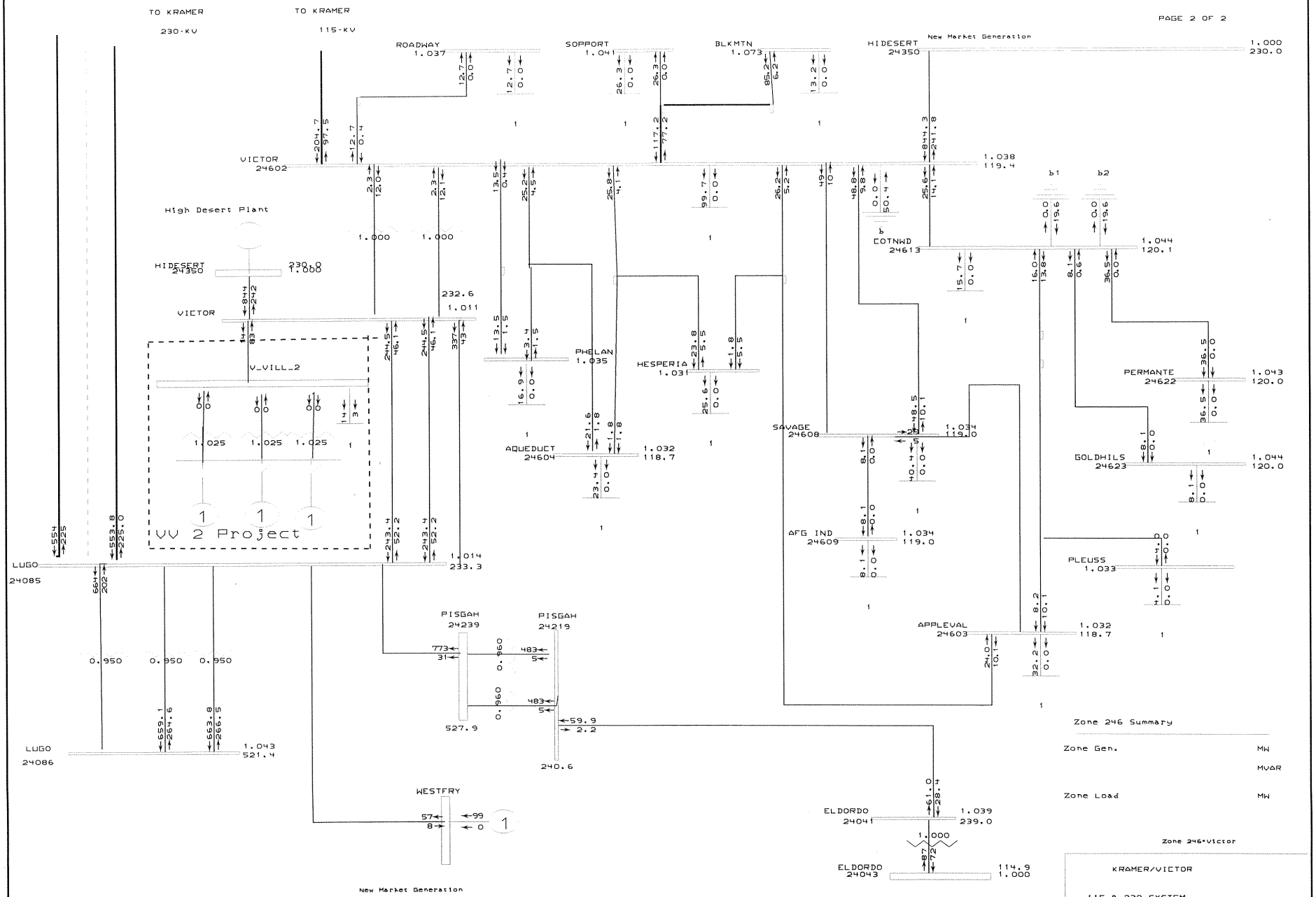


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 13:05:25 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to PHELAN 115 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

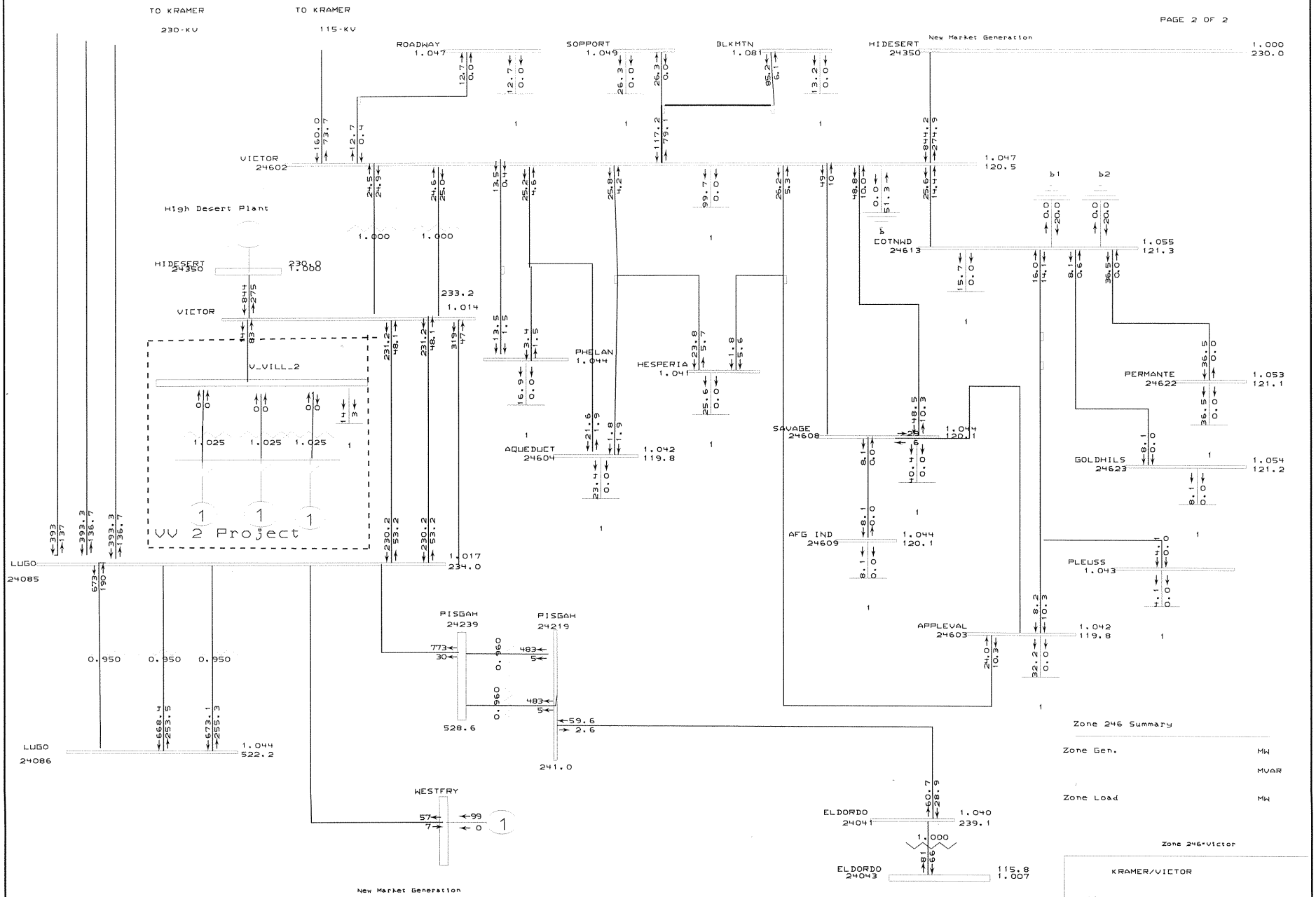


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 13:05:49 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to LUGO 230 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

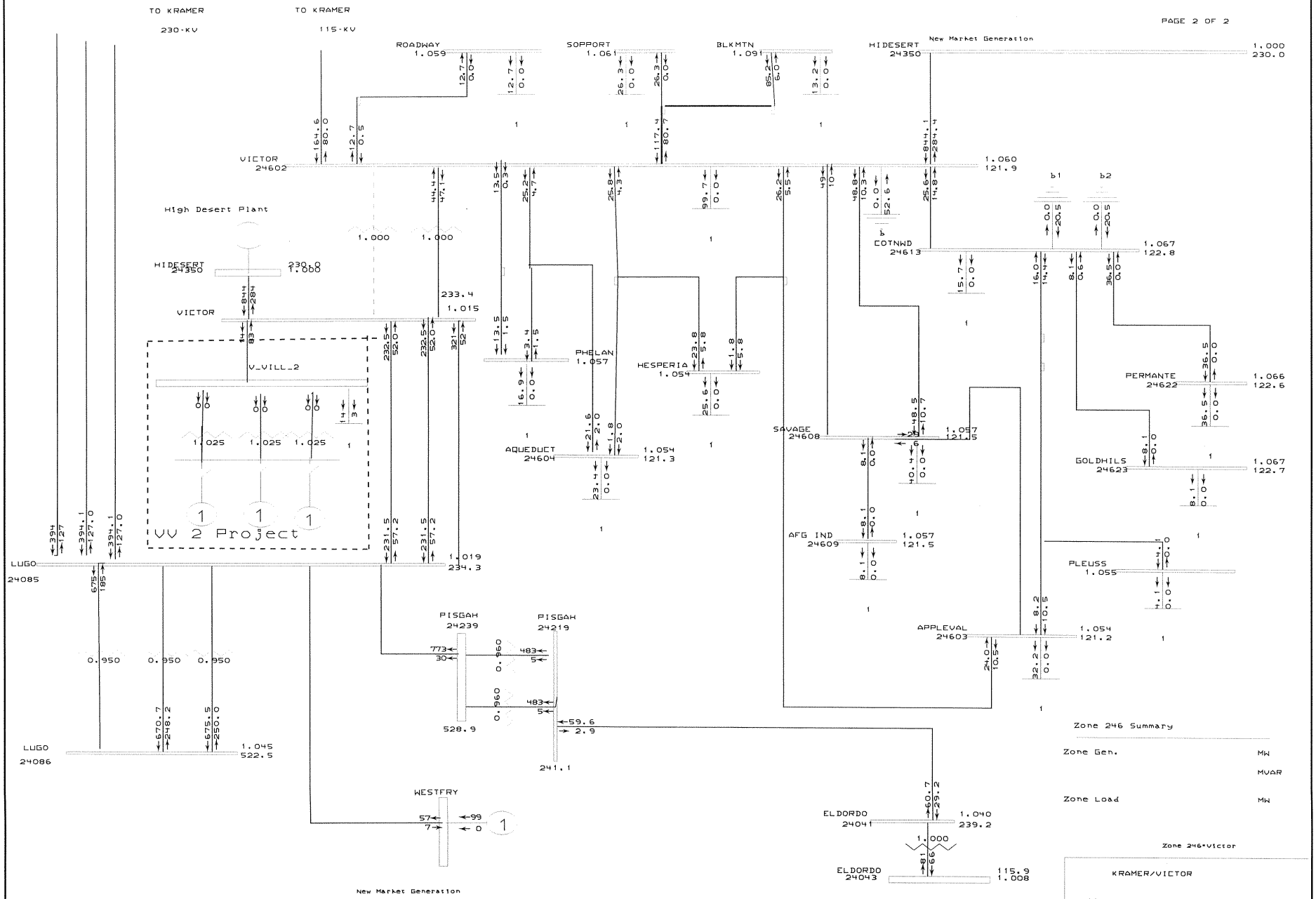


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

Tue Apr 03 13:05:51 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vf152\batch\D Rating = 1

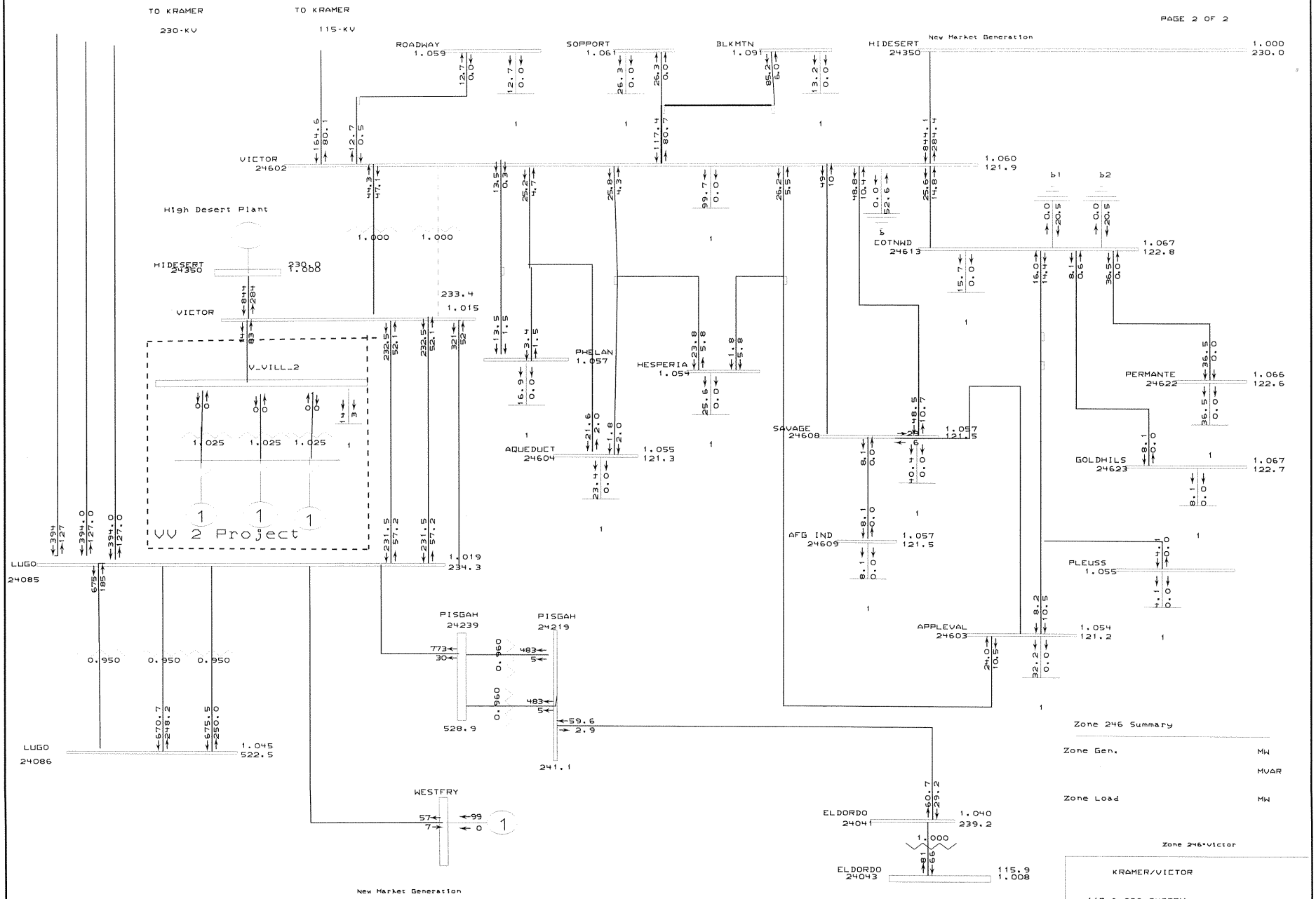


vv-2-2010sp-pre-allupgrades.sav

MW/MVAR

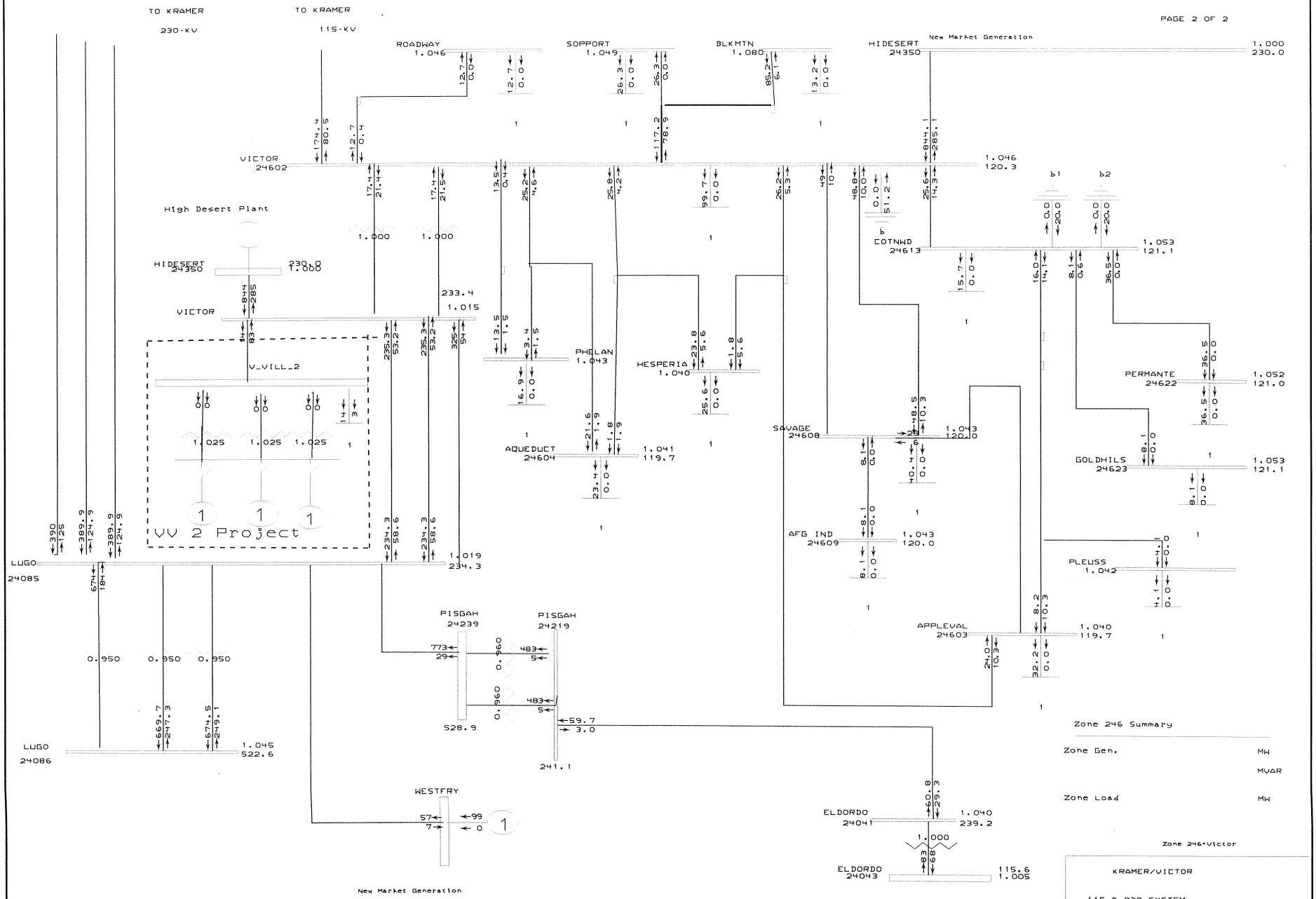
Tue Apr 03 13:06:48 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1



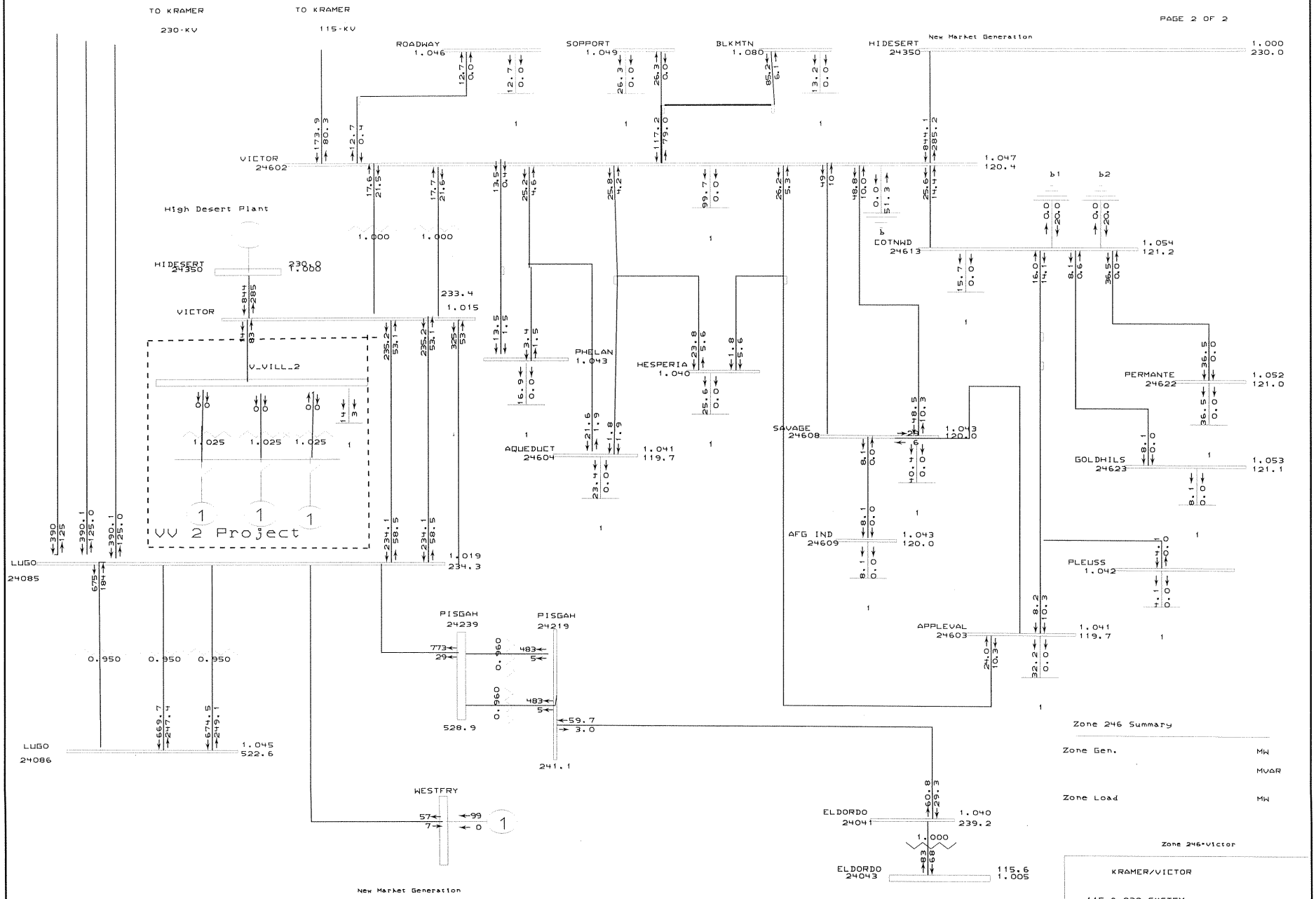
vv-2-2010sp-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 13:06:50 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1



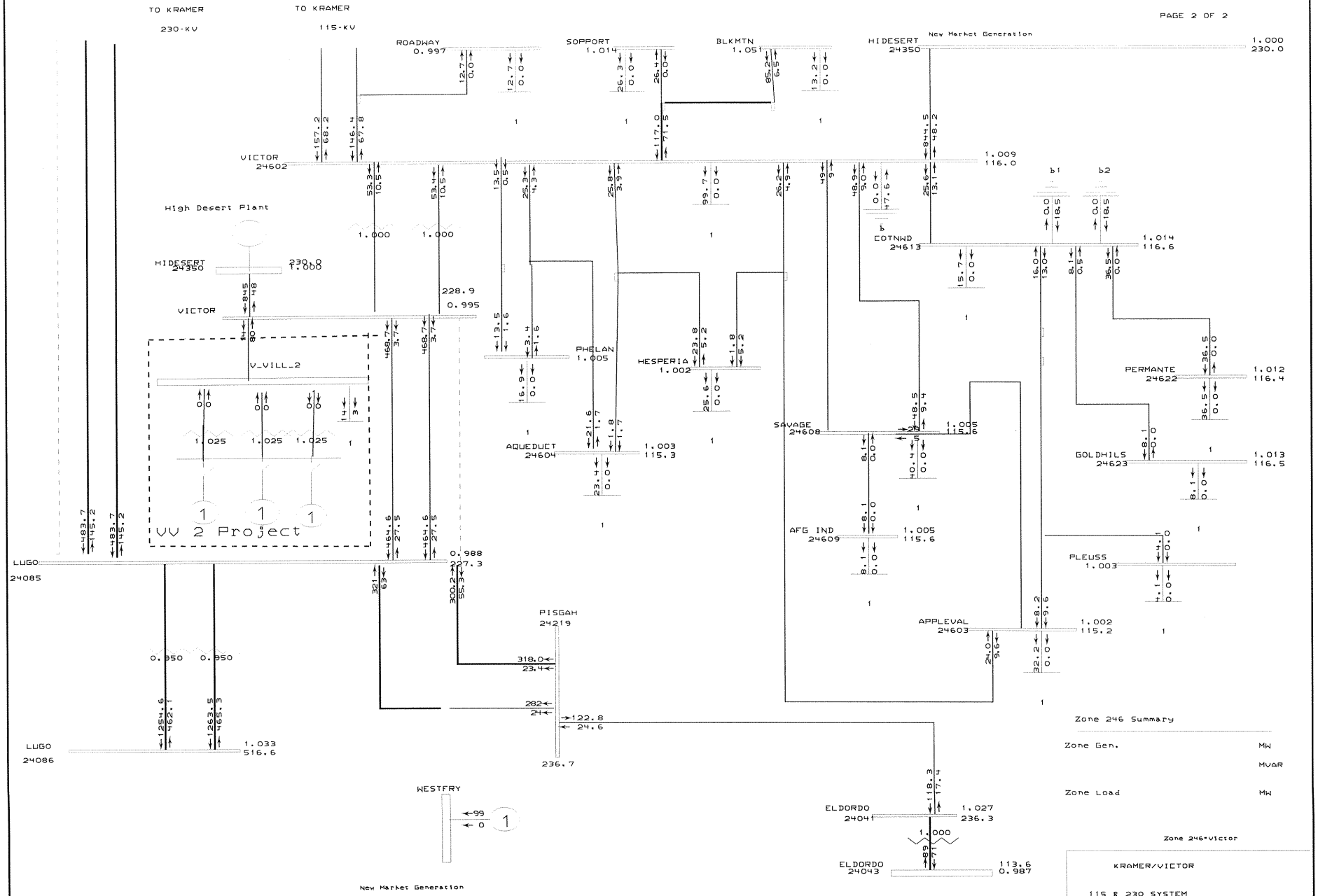
vv-2-2010sp-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 13:06:51 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 1	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1



vv-2-2010sp-pre-allupgrades.sav | MW/MVAR | Tue Apr 03 13:06:53 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION: 65% OF 1-IN-10 YEAR HEAT WAVE LOAD 408 tran KRAMER 230 to KRAMER 115 ck 2	WITH 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vf52\batch\D Rating = 1

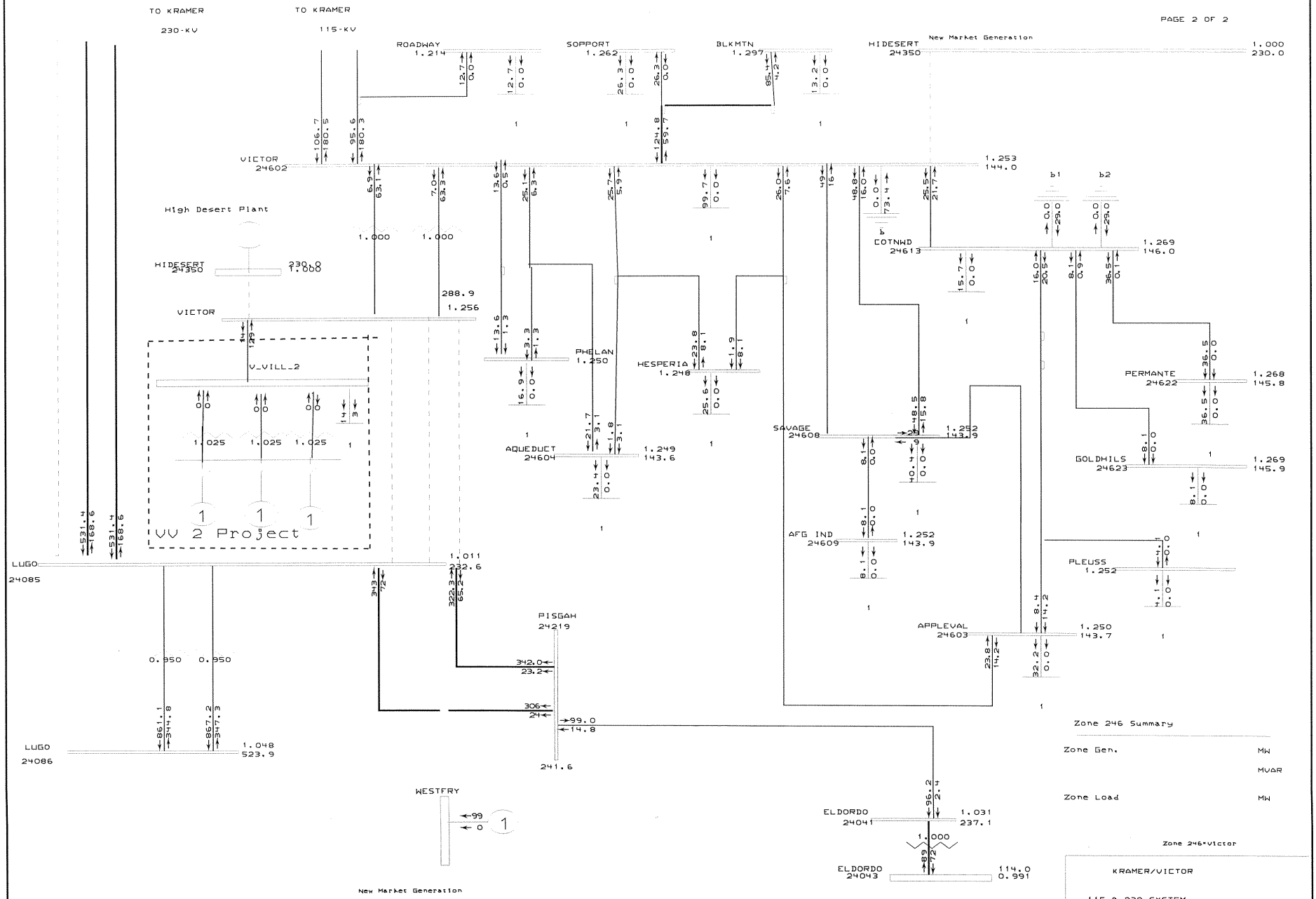


vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:16:16 2007

	VICTORVILLE 2 PROJECT STUDIES Base Case CASE NAME: VV2_2010LSP-PRE PROJECT	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1

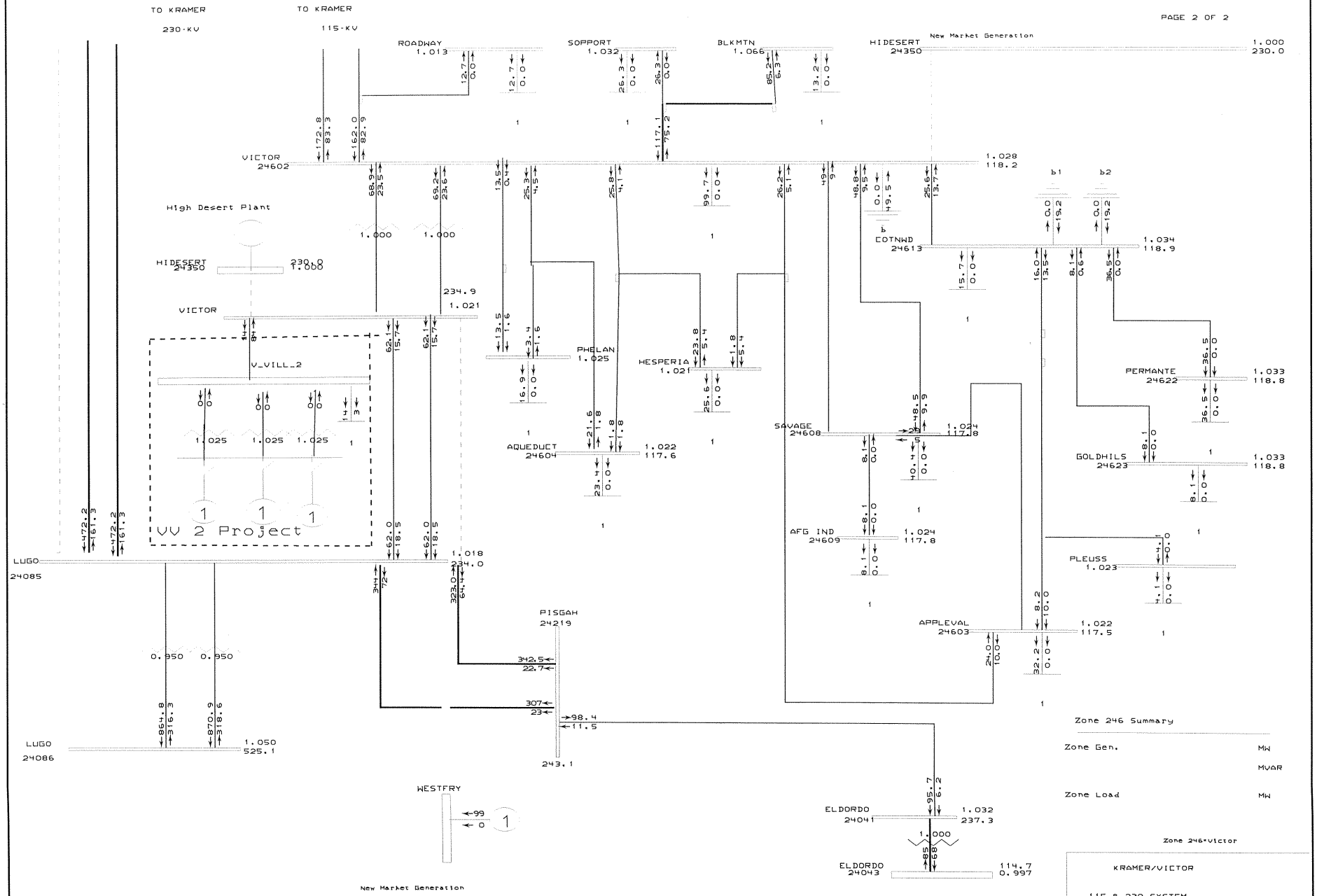


vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:18:43 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 218 VICTOR - LUGO 230 1, VICTOR - LUGO 230 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vf52\batch\D Rating = 1

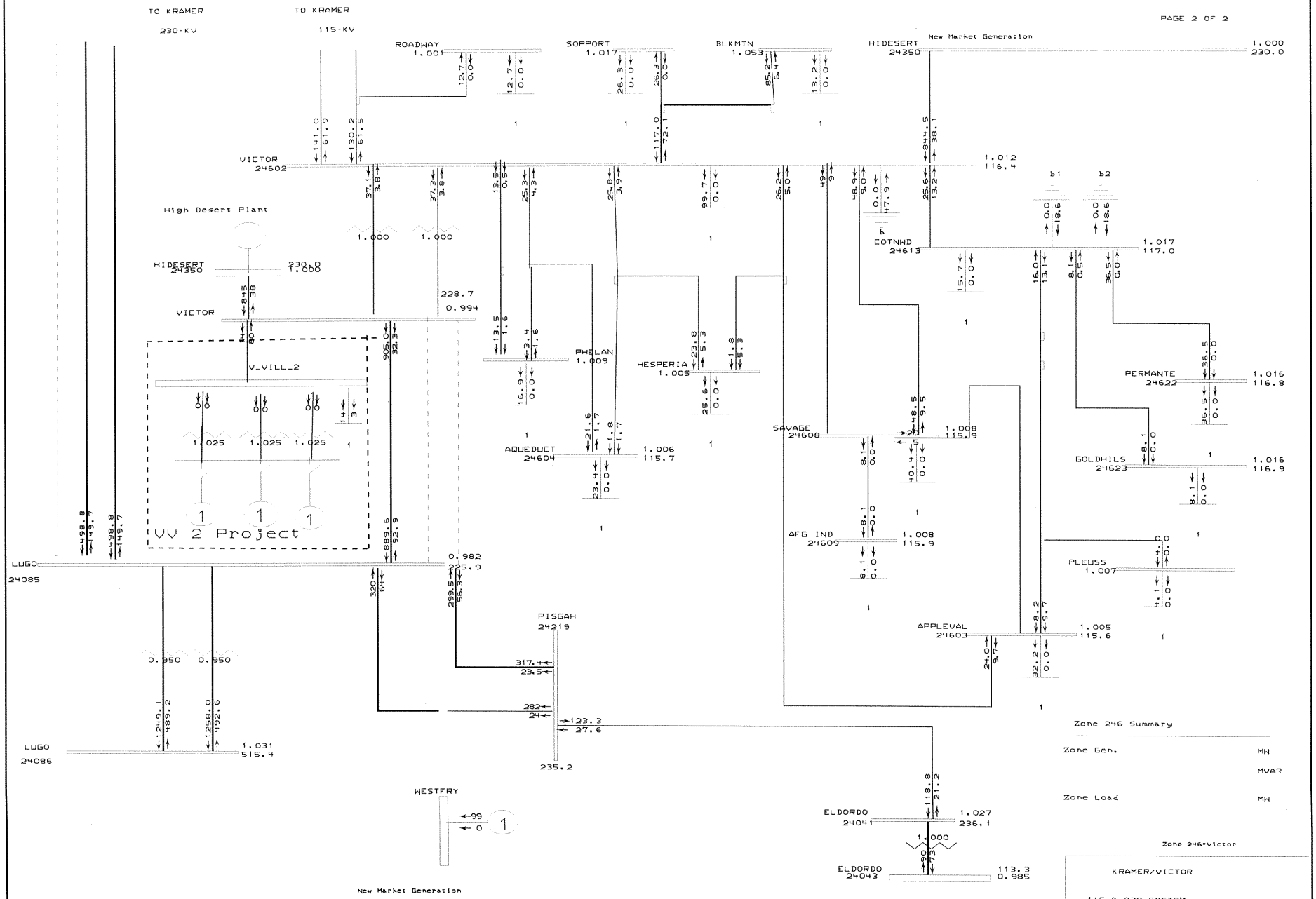


vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:16:19 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line HIDESERT to VICTOR 230 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1

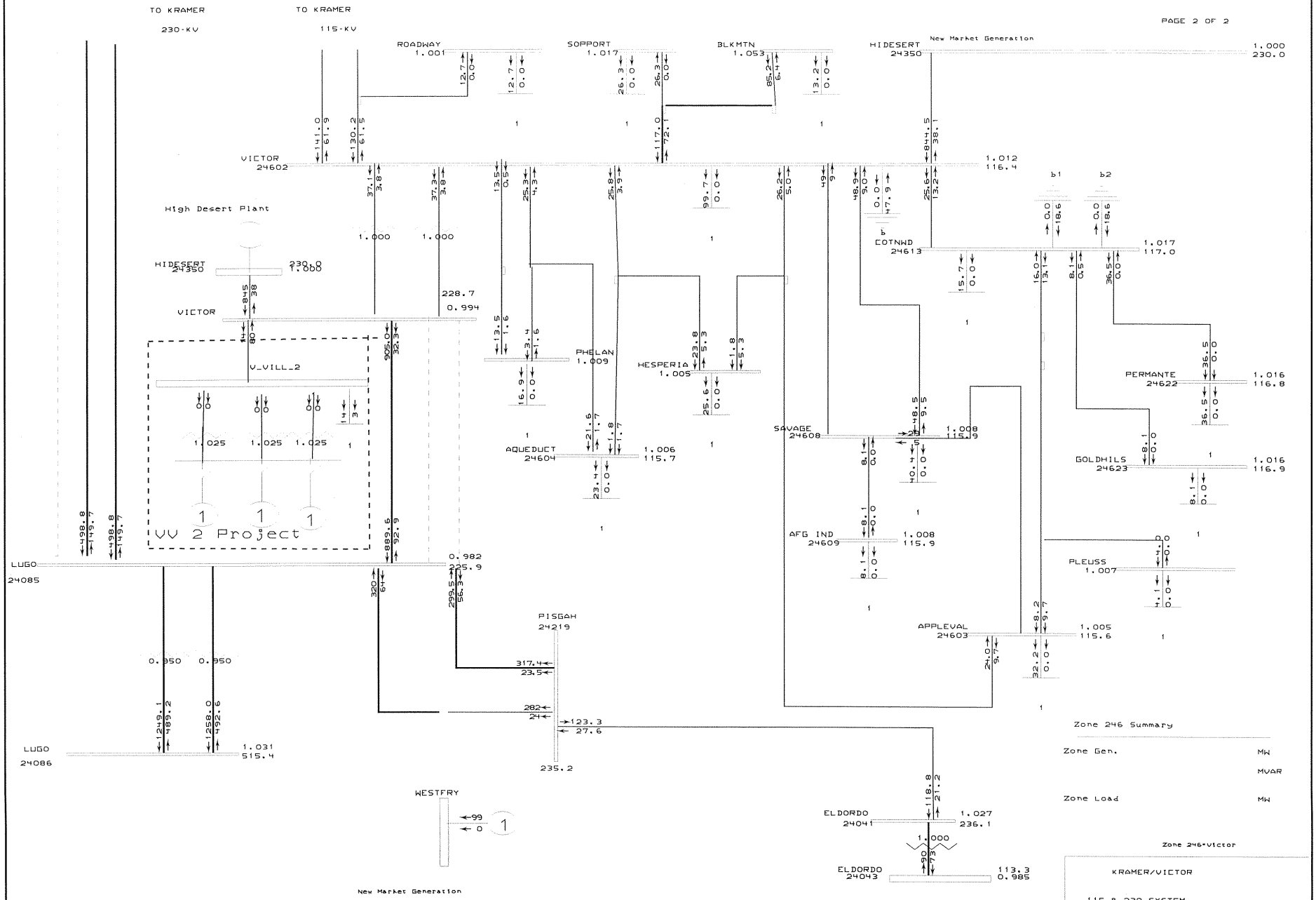


vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:16:23 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vf52\batch\D Rating = 1



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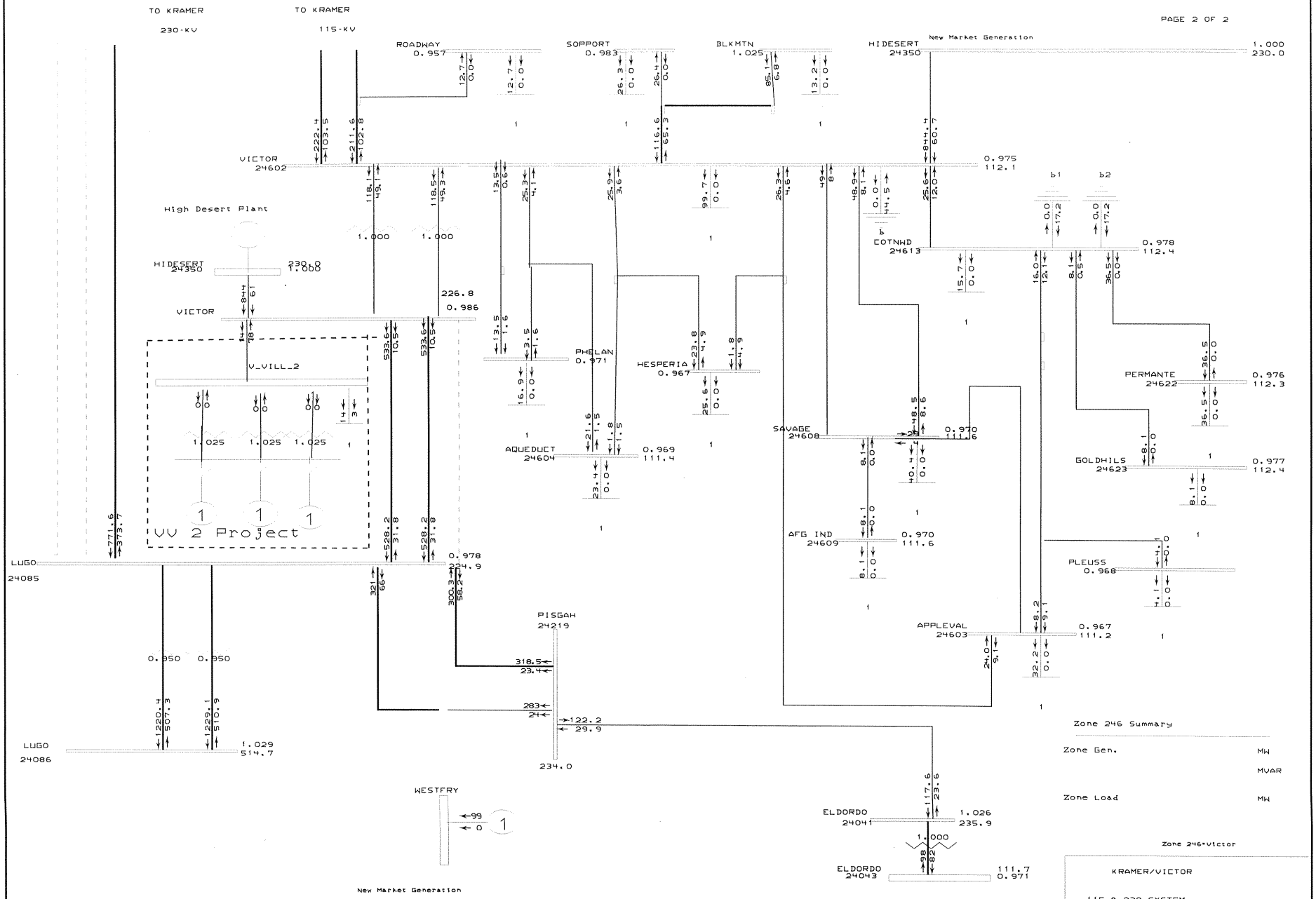
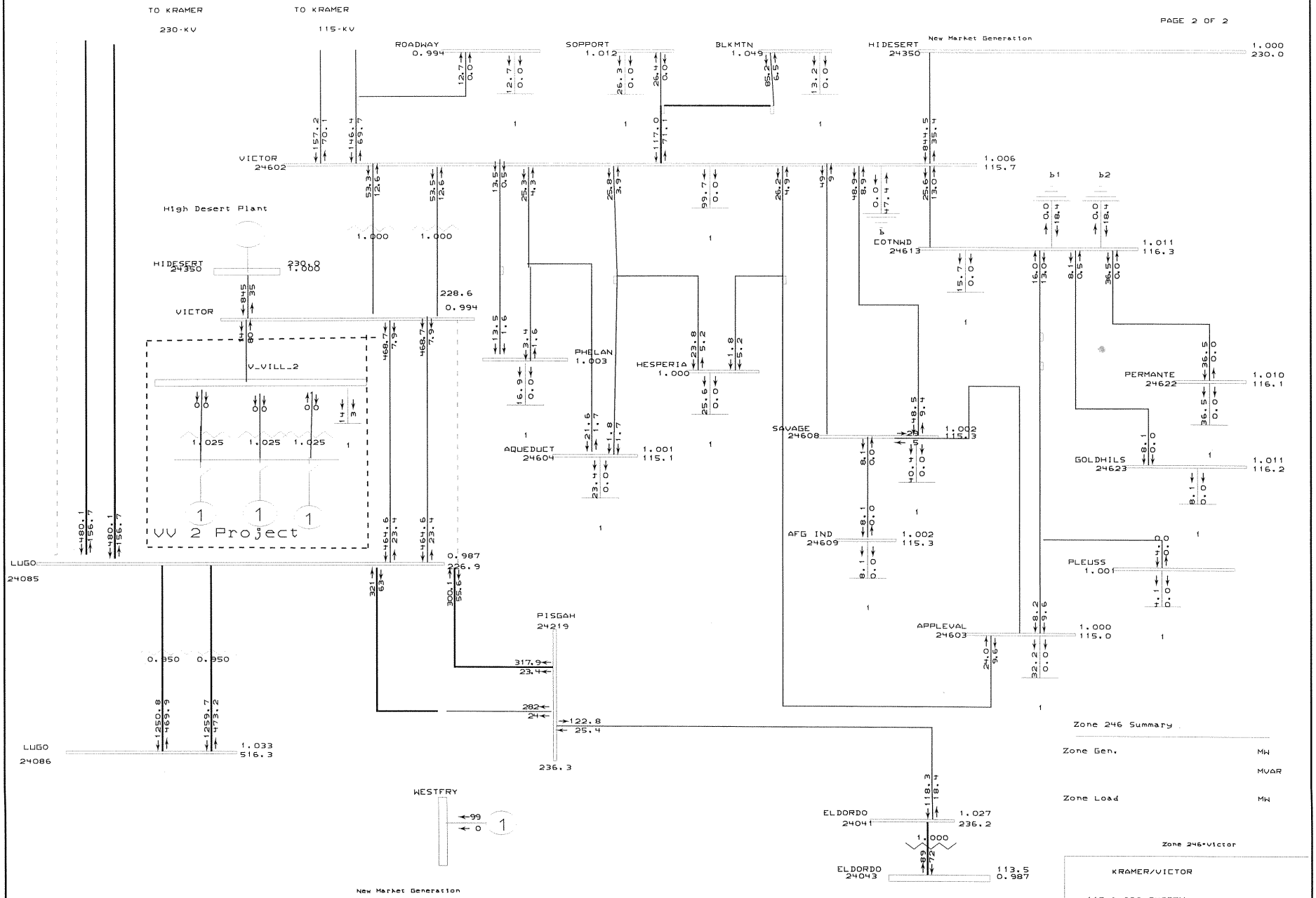
MW/MVAR

Tue Apr 03 14:16:23 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 400 line VICTOR to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\v152\batch\D Rating = 1



	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to LUGO 230 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vv152\batch\D Rating = 1



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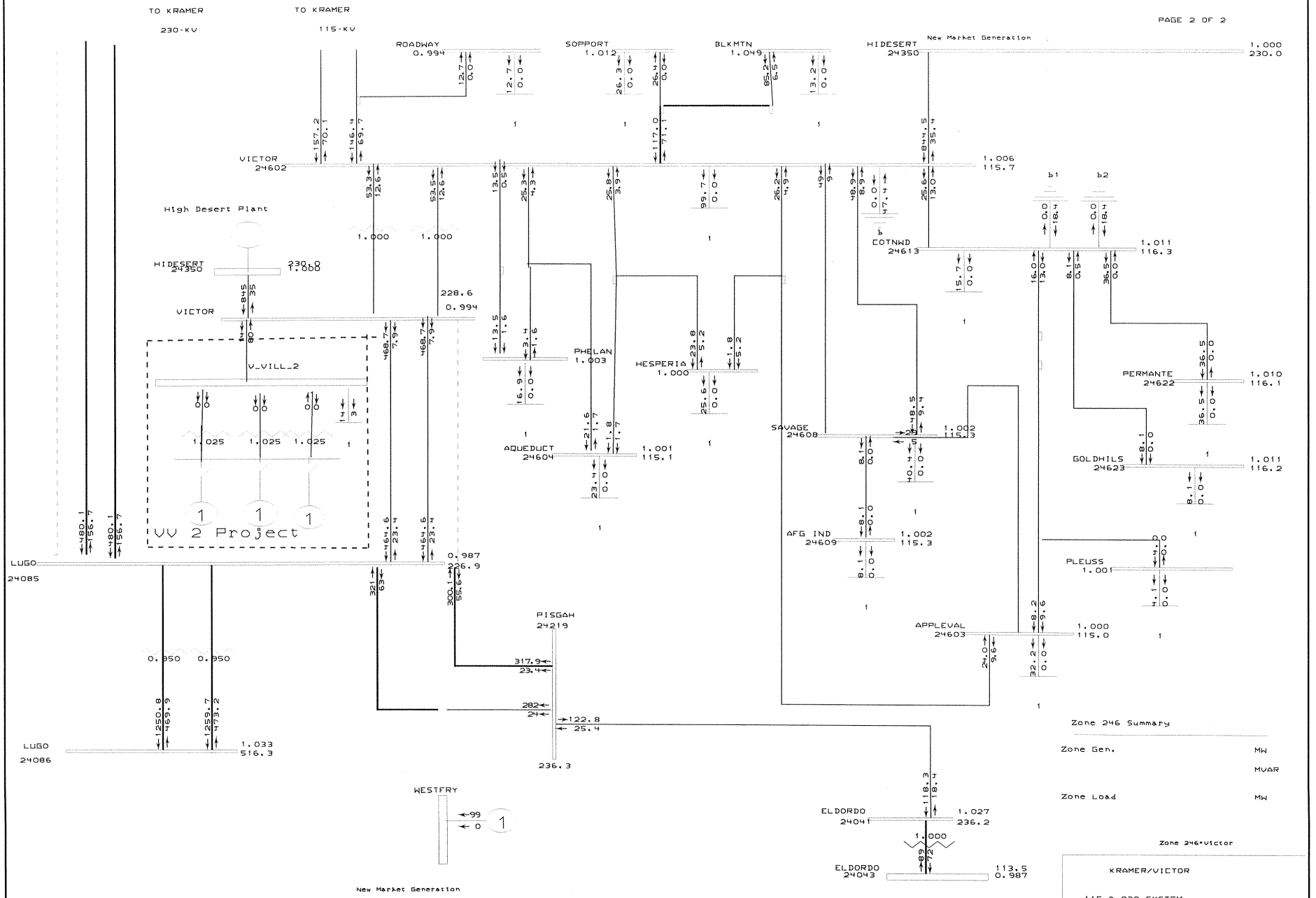
MW/MVAR

Tue Apr 03 14:16:49 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 403 line KRAMER to COLWATER 230 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epcl\vf52\batch\D Rating = 1



vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:16:50 2007

VICTORVILLE 2 PROJECT STUDIES

2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD)

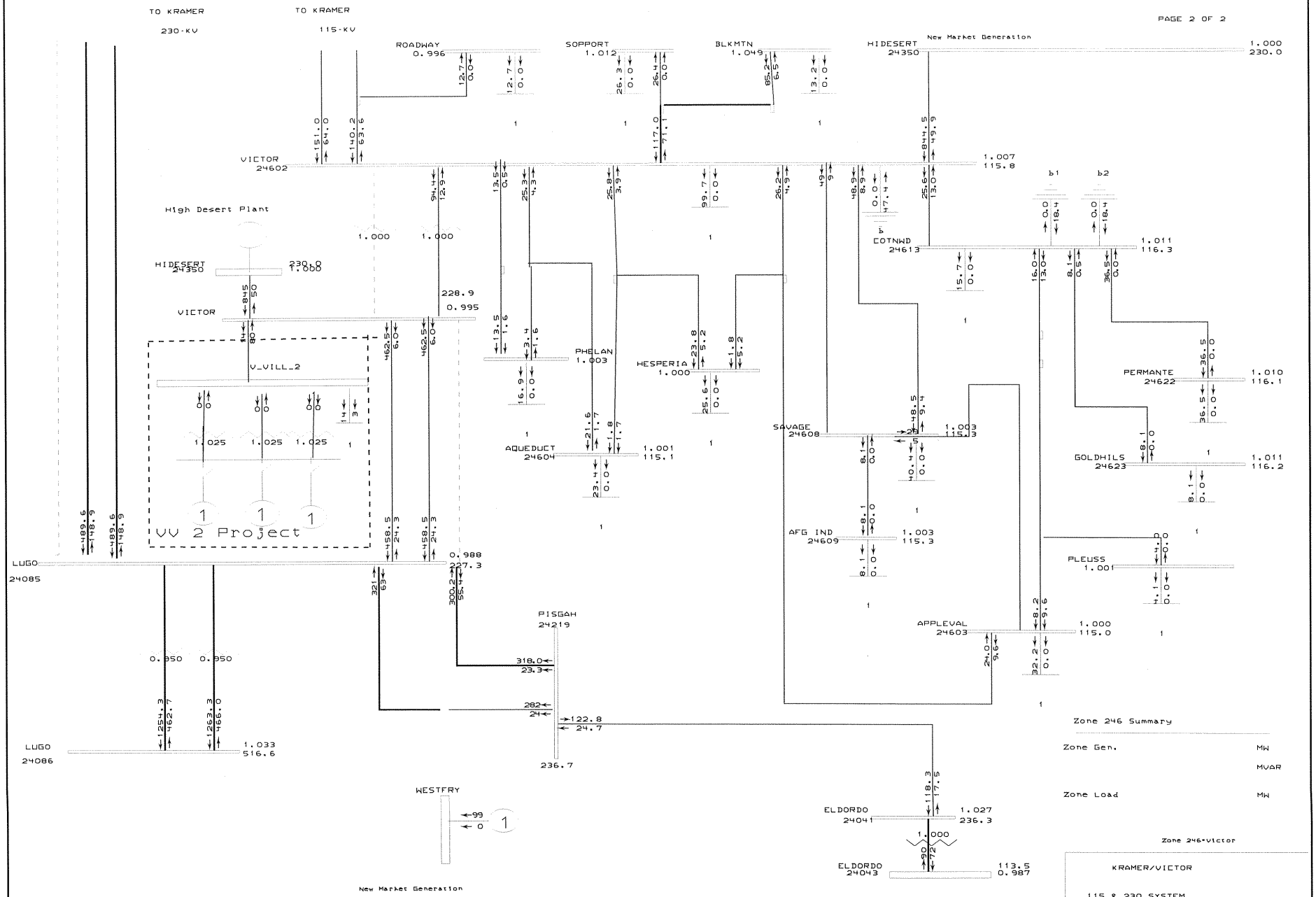
403 line KRAMER to COLWATER 230 ck 2

WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE

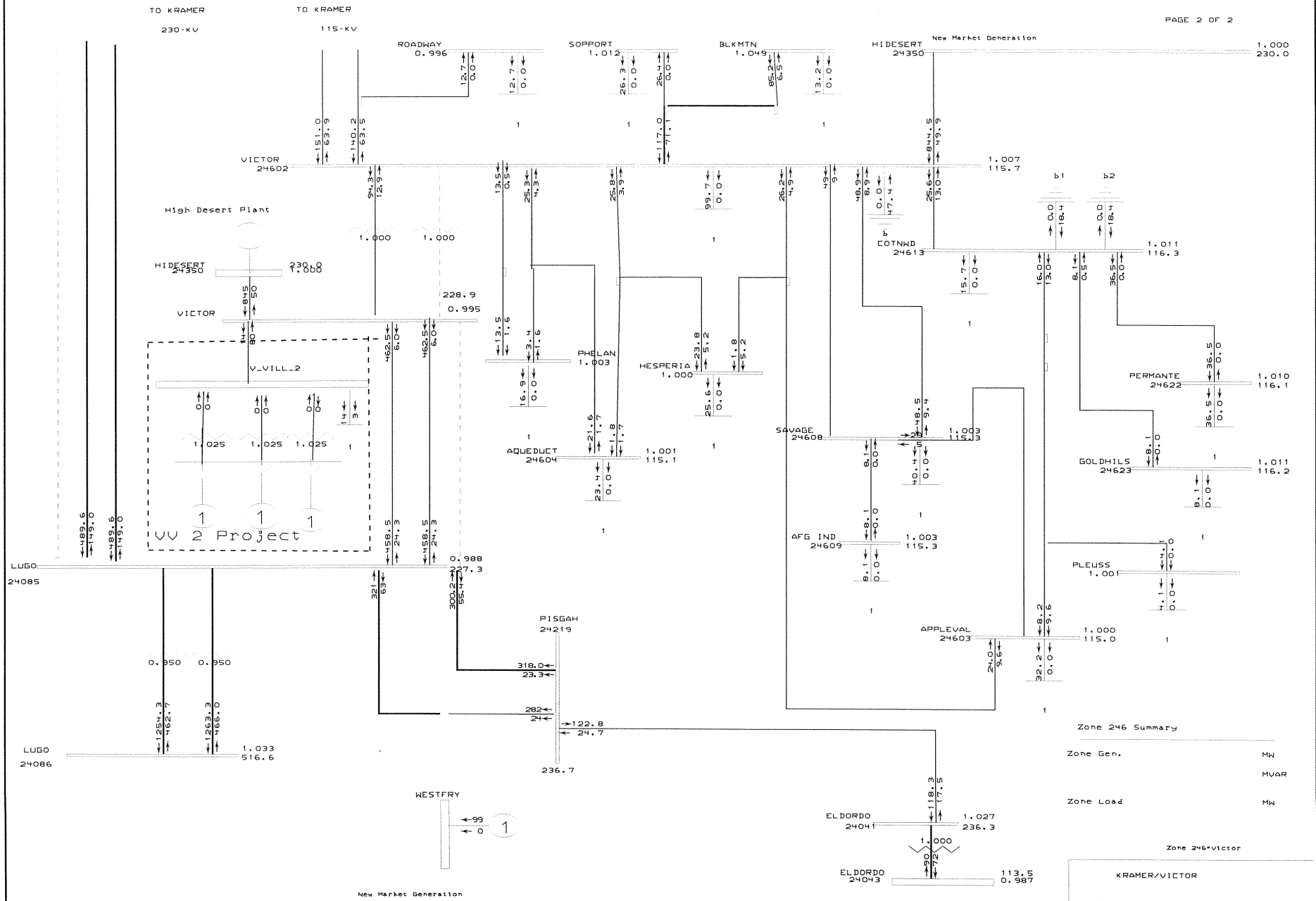
PSLF Program

c:\epcl\v152\batch\D

Rating = 1



	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran VICTOR 230 to VICTOR 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1



vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:17:47 2007

VICTORVILLE 2 PROJECT STUDIES

2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD)

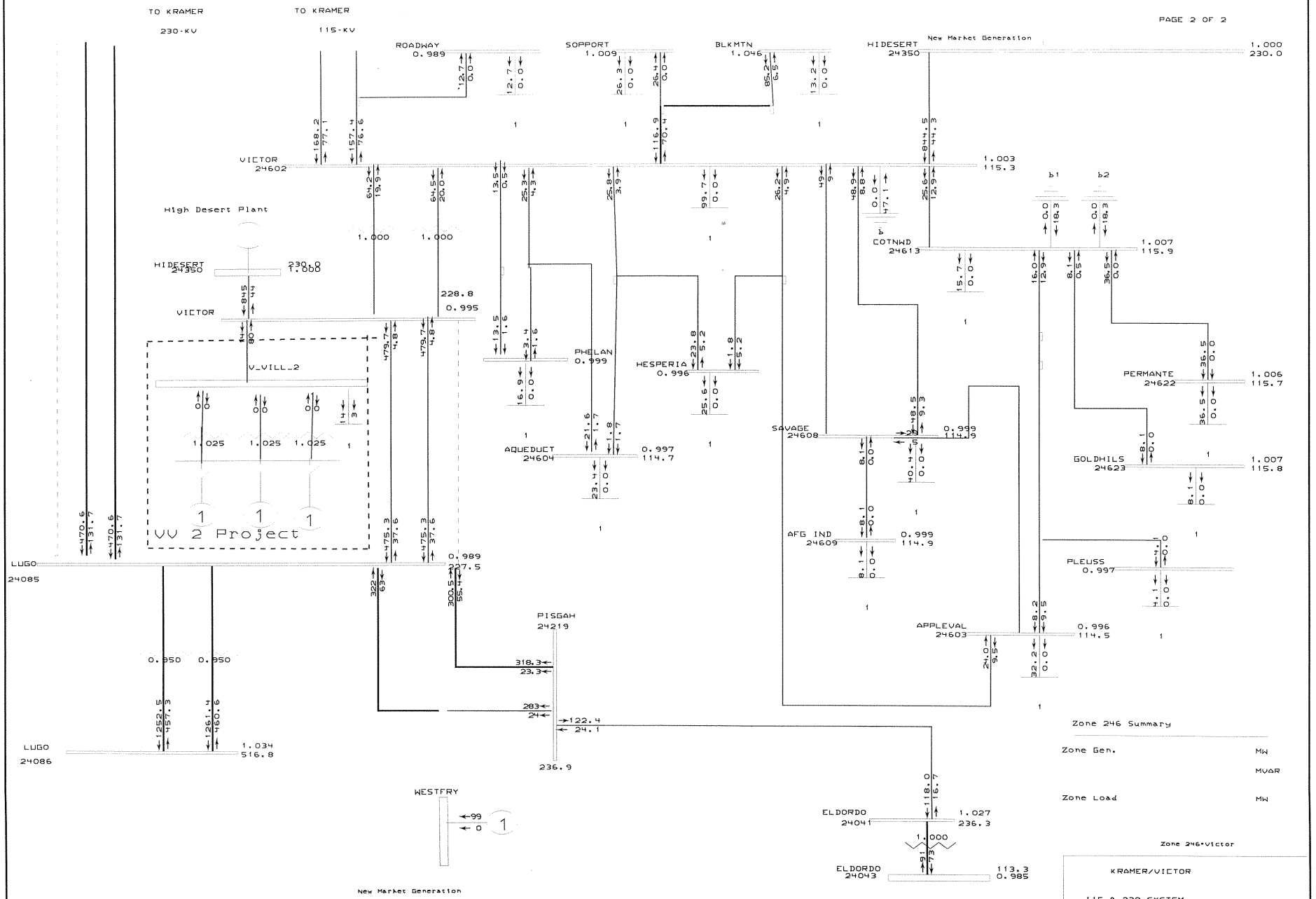
408 tran VICTOR 230 to VICTOR 115 ck 2

WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE

PSLF Program

c:\epc1\vv152\batch\D

Rating = 1

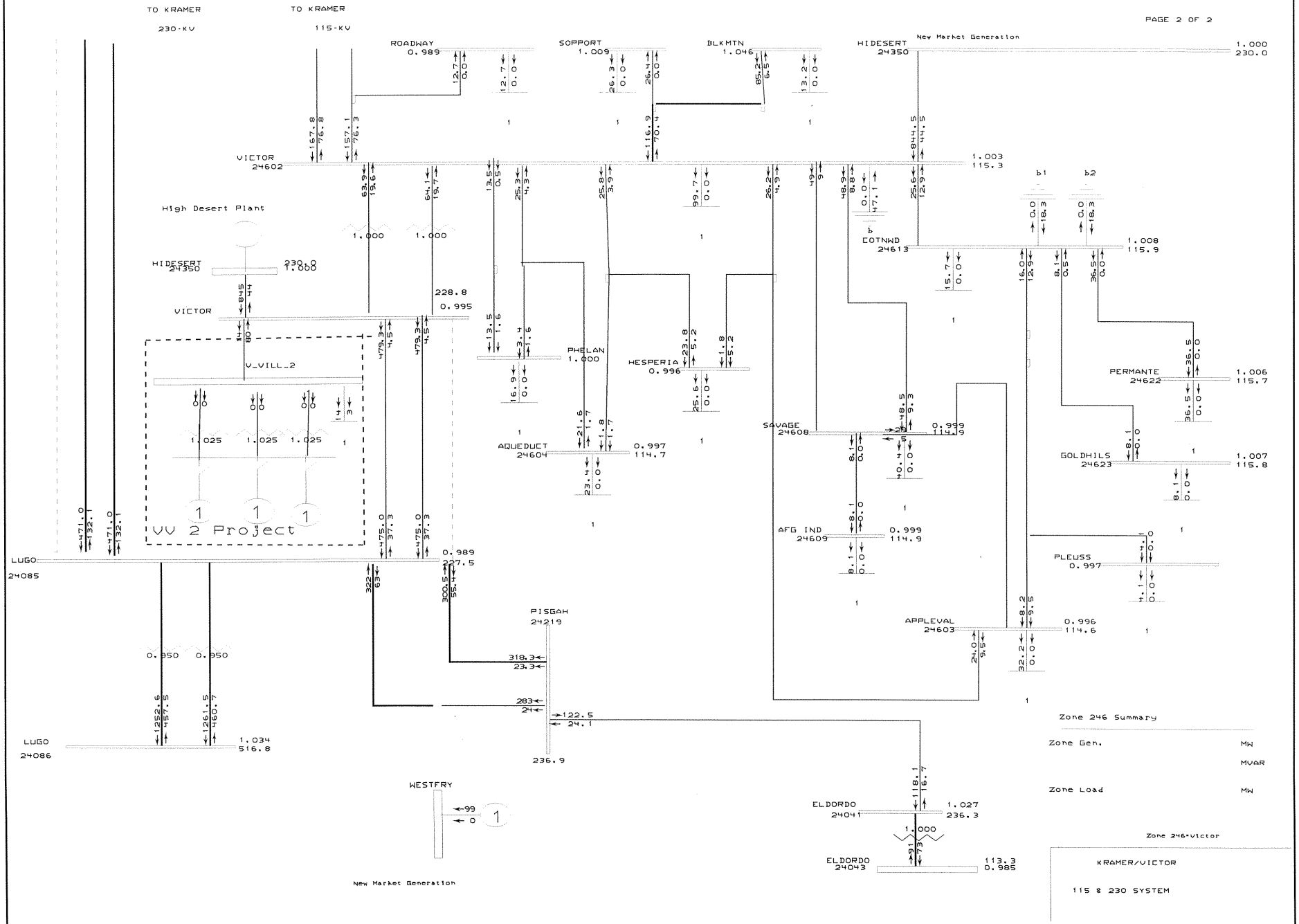


vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:17:48 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 1	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\vv152\batch\D Rating = 1



vv-2-2010sp-pre.sav

MW/MVAR

Tue Apr 03 14:17:50 2007

	VICTORVILLE 2 PROJECT STUDIES 2010 LIGHT SPRING CONDITION (65% OF 1-IN-10 YEAR HEAT WAVE LOAD) 408 tran KRAMER 230 to KRAMER 115 ck 2	WITHOUT 3RD LUGO AA TRANSFORMER BANK IN SERVICE	PSLF Program c:\epc1\v152\batch\D Rating = 1