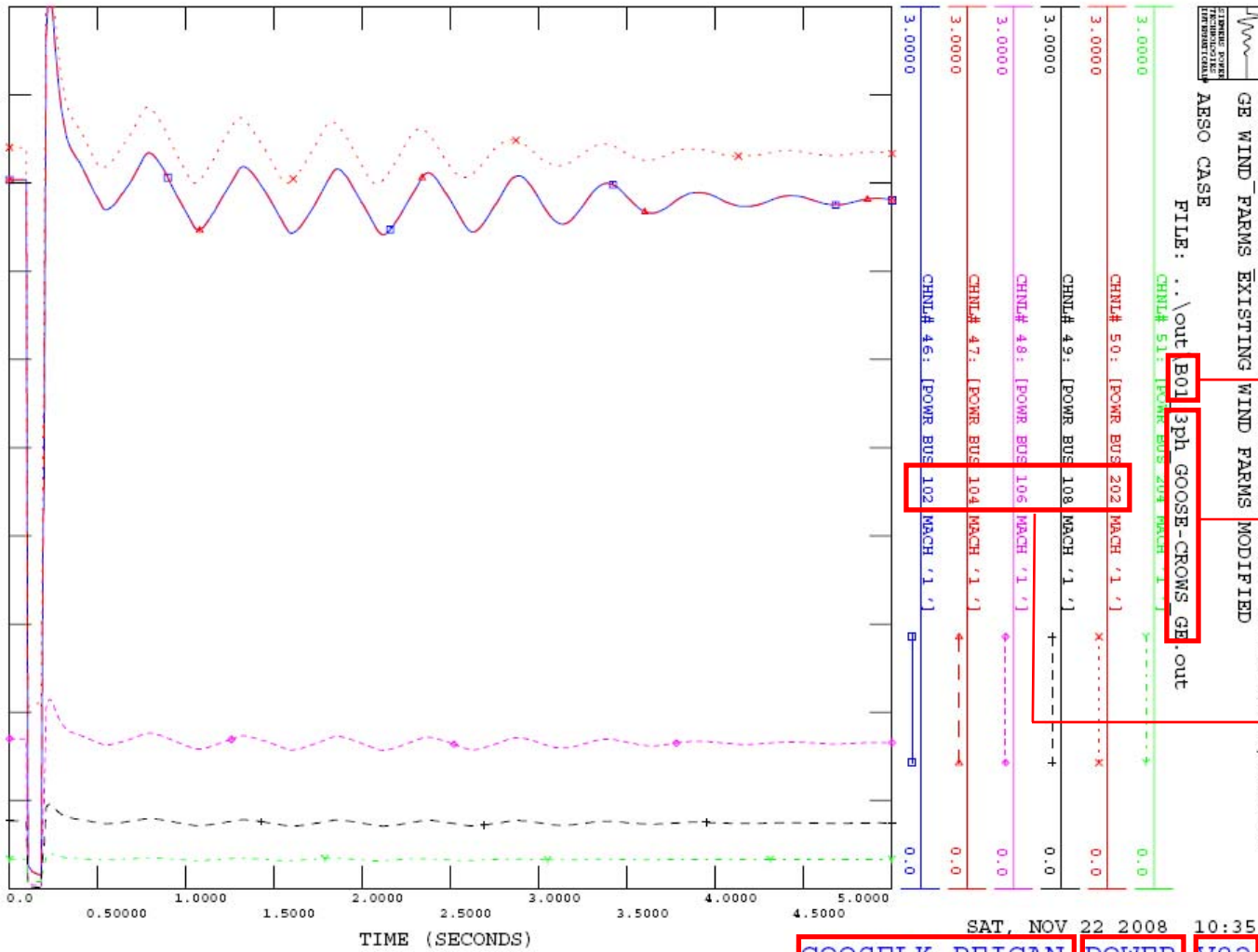


APPENDIX E TRANSIENT STABILITY ANALYSIS



[Fault Case ID]

[Fault Description]

[Wind Farm Bus Number]

[Monitored Generator]

[Monitored Parameter]

[Turbine Type]

Stability Plots Reference Table

| Substation Name | POI 240 kV Bus Number | Wind Farm 600 V Bus Number | DVAR Bus Number (V82 model only) |
|-----------------|-----------------------|----------------------------|------------------------------------|
| Goose lake | 54367 | 102, 104, 106, 108 | 101, 103, 105, 107 |
| Peigan | 54165 | 202, 204 | 201, 203 |
| Sub F | 92226 | 302, 304, 306 | 301, 303, 305, 307 |
| Sub G | 92227 | 402, 404 | 401, 403 |
| Vulcan | 93165 | 502 | 501 |
| Sub A | 92221 | 602, 604, 606 | 601, 603, 605 |
| Sub B | 92222 | 702, 704, 706 | 701, 703, 705 |
| Sub C | 92223 | 802, 804 | 801, 803 |
| Sub D | 92224 | 902, 904, 906, 908 | 901, 903, 905, 907 |
| Medicine Hat 2 | 92234 | 1002, 1004 | 1001, 1003 |
| Cypress | 54677 | 1102, 1104 | 1101, 1103 |
| WR | 90200 | 1202 | 1201 |
| Anderson | 55484 | 1302, 1304 | 1301, 1303 |
| Red dee | 54152 | 1402, 1404 | 1401, 1403 |

Category B Fault Analysis Results

Category B fault analysis was performed for Alternative 1A. Category B faults are defined as three-phase faults of a transmission line or transformer with normal clearing time. Figures E-1 E-2 and E-3 show the locations where the Category B faults were applied to the system. Table E-1 summarizes the fault descriptions and results for the Category B fault analysis. Specific transient simulation plots for Category B contingencies can be found in Appendix E.

FIGURE E-1

CATEGORY B FAULT LOCATIONS - SOUTHWESTERN PART OF THE SOUTH SYSTEM

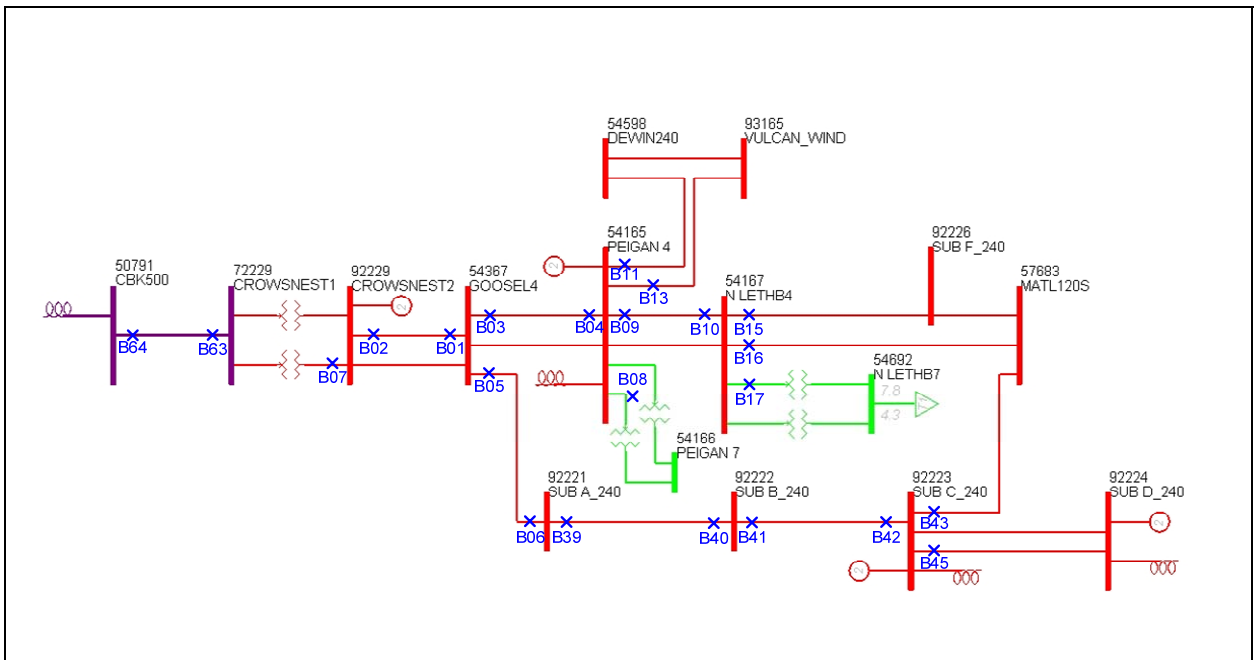


TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|---------|--|--|
| B01** | 3ph fault at Gooselake 240kV line to Crowsnest 5 cycles: trip Gooselake CB on Gooselake - Crowsnest line 6 cycles: trip Crowsnest CB on Gooselake - Crowsnest line | System stable Good voltage recovery No load shedding |
| B02 | 3ph fault at Crowsnest 240kV line to Gooselake 5 cycles: trip Crowsnest CB on Crowsnest - Gooselake line 6 cycles: trip Gooselake CB on Crowsnest - Gooselake line | System stable Good voltage recovery No load shedding |
| B03 | 3ph fault at Gooselake 240kV line to Peigan 5 cycles: trip Gooselake CB on Gooselake - Peigan line 6 cycles: trip Peigan CB on Gooselake - Peigan line | System stable Good voltage recovery No load shedding |
| B04* | 3ph fault at Peigan 240kV line to Gooselake 5 cycles: trip Peigan CB on Peigan - Gooselake line 6 cycles: trip Gooselake CB on Peigan - Gooselake line | System stable Good voltage recovery No load shedding |
| B05 | 3ph fault at Gooselake 240kV line to SubA 5 cycles: trip Gooselake CB on Gooselake - SubA line 6 cycles: trip SubA CB on Gooselake - SubA line | System stable Good voltage recovery No load shedding |
| B06 | 3ph fault at SubA 240kV line to Gooselake 5 cycles: trip SubA CB on SubA - Gooselake line 6 cycles: trip Gooselake CB on SubA - Gooselake line | System stable Good voltage recovery No load shedding |
| B07 | 3ph fault at Crowsnest transformer 5 cycles: trip Crowsnest CB on transformer | System stable Good voltage recovery No load shedding |
| B08 | 3ph fault at Peigan transformer 5 cycles: trip Peigan CB on transformer | System stable Good voltage recovery No load shedding |
| B09 | 3ph fault at Peigan 240kV line to N_Leth 5 cycles: trip Peigan CB on Peigan - N_Leth line 6 cycles: trip N_Leth CB on Peigan - N_Leth line | System stable Good voltage recovery No load shedding |
| B10* | 3ph fault at N_Leth 240kV line to Peigan 5 cycles: trip N_Leth CB on N_Leth - Peigan line 6 cycles: trip Peigan CB on N_Leth - Peigan line | System stable Good voltage recovery No load shedding |
| B11 | 3ph fault at Peigan 240kV line to Dewin 5 cycles: trip Peigan CB on Peigan - Dewin line 6 cycles: trip Dewin CB on Peigan - Dewin line | System stable Good voltage recovery No load shedding |
| B12* | 3ph fault at Dewin 240kV line to Peigan 5 cycles: trip Dewin CB on Dewin - Peigan line 6 cycles: trip Peigan CB on Dewin - Peigan line | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

** Stability simulation plots for V82 and GE machines are included in Appendix E.

TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|------------------|--|--|
| B13 [*] | 3ph fault at Peigan 240kV line to Vulcan 5 cycles: trip Peigan CB on Peigan - Vulcan line 6 cycles: trip Vulcan CB on Peigan - Vulcan line | System stable Good voltage recovery No load shedding |
| B14 | 3ph fault at Vulcan 240kV line to Peigan 5 cycles: trip Vulcan CB on Vulcan - Peigan line 6 cycles: trip Peigan CB on Vulcan - Peigan line | System stable Good voltage recovery No load shedding |
| B15 | 3ph fault at N_Leth 240kV line to SubF 5 cycles: trip N_Leth CB on N_Leth - SubF line 6 cycles: trip SubF CB on N_Leth - SubF line | System stable Good voltage recovery No load shedding |
| B16 | 3ph fault at N_Leth 240kV line to Matl 5 cycles: trip N_Leth CB on N_Leth - Matl line 6 cycles: trip Matl CB on N_Leth - Matl line | System stable Good voltage recovery No load shedding |
| B17 | 3ph fault at N_Leth transformer 5 cycles: trip N_Leth CB on transformer | System stable Good voltage recovery No load shedding |
| B18 [*] | 3ph fault at Vulcan 240kV line to Dewin 5 cycles: trip Vulcan CB on Vulcan - Dewin line 6 cycles: trip Dewin CB on Vulcan - Dewin line | System stable Good voltage recovery No load shedding |
| B19 | 3ph fault at Dewin 240kV line to Vulcan 5 cycles: trip Dewin CB on Dewin - Vulcan line 6 cycles: trip Vulcan CB on Dewin - Vulcan line | System stable Good voltage recovery No load shedding |
| B20 | 3ph fault at SubF 240kV line to Milo 5 cycles: trip SubF CB on SubF - Milo line 6 cycles: trip Milo CB on SubF - Milo line | System stable Good voltage recovery No load shedding |
| B21 [*] | 3ph fault at Milo 240kV line to SubF 5 cycles: trip Milo CB on Milo - SubF line 6 cycles: trip SubF CB on Milo - SubF line | System stable Good voltage recovery No load shedding |
| B22 | 3ph fault at SubF 240kV line to Milo 5 cycles: trip SubF CB on SubF - Milo line 6 cycles: trip Milo CB on SubF - Milo line | System stable Good voltage recovery No load shedding |
| B23 | 3ph fault at Milo 240kV line to SubF 5 cycles: trip Milo CB on Milo - SubF line 6 cycles: trip SubF CB on Milo - SubF line | System stable Good voltage recovery No load shedding |
| B24 [*] | 3ph fault at SubF 240kV line to N_Leth 5 cycles: trip SubF CB on SubF - N_Leth line 6 cycles: trip N_Leth CB on SubF - N_Leth line | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

** Stability simulation plots for V82 and GE machines are included in Appendix E.

TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|---------|---|--|
| B25 | 3ph fault at SubF 240kV line to Matl 5 cycles: trip SubF CB on SubF - Matl line 6 cycles: trip Matl CB on SubF - Matl line | System stable Good voltage recovery No load shedding |
| B26 | 3ph fault at Matl 240kV line to SubF 5 cycles: trip Matl CB on Matl - SubF line 6 cycles: trip SubF CB on Matl - SubF line | System stable Good voltage recovery No load shedding |
| B27** | 3ph fault at Milo 240kV line to WBrook 5 cycles: trip Milo CB on Milo - WBrook line 6 cycles: trip WBrook CB on Milo - WBrook line | System stable Good voltage recovery No load shedding |
| B28 | 3ph fault at WBrook 240kV line to Milo 5 cycles: trip WBrook CB on WBrook - Milo line 6 cycles: trip Milo CB on WBrook - Milo line | System stable Good voltage recovery No load shedding |
| B29 | 3ph fault at Milo 240kV line to SubG 5 cycles: trip Milo CB on Milo - SubG line 6 cycles: trip SubG CB on Milo - SubG line | System stable Good voltage recovery No load shedding |
| B30* | 3ph fault at SubG 240kV line to Milo 5 cycles: trip SubG CB on SubG - Milo line 6 cycles: trip Milo CB on SubG - Milo line | System stable Good voltage recovery No load shedding |
| B31 | 3ph fault at SubG 240kV line to Langdon 5 cycles: trip SubG CB on SubG - Langdon line 6 cycles: trip Langdon CB on SubG - Langdon line | System stable Good voltage recovery No load shedding |
| B32 | 3ph fault at Langdon 240kV line to SubG 5 cycles: trip Langdon CB on Langdon - SubG line 6 cycles: trip SubG CB on Langdon - SubG line | System stable Good voltage recovery No load shedding |
| B33 | 3ph fault at Langdon 240kV line to Jannet 5 cycles: trip Langdon CB on Langdon - Jannet line 6 cycles: trip Jannet CB on Langdon - Jannet line | System stable Good voltage recovery No load shedding |
| B34 | 3ph fault at Langdon transformer 5 cycles: trip Langdon CB on transformer | System stable Good voltage recovery No load shedding |
| B35* | 3ph fault at Langdon 240kV line to Ware_Junction 5 cycles: trip Langdon CB on Langdon - Ware_Junction line 6 cycles: trip Ware_Junction CB on Langdon - Ware_Junction | System stable Good voltage recovery No load shedding |
| B36 | 3ph fault at Dewin transformer 5 cycles: trip Dewin CB on transformer | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

** Stability simulation plots for V82 and GE machines are included in Appendix E.

TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|------------------|--|--|
| B37 | 3ph fault at Dewin 240kV line to Enmax 5 cycles: trip Dewin CB on Dewin - Enmax line 6 cycles: trip Enmax CB on Dewin - Enmax line | System stable Good voltage recovery No load shedding |
| B38 | 3ph fault at Dewin 240kV line to Sarcee 5 cycles: trip Dewin CB on Dewin - Sarcee line 6 cycles: trip Sarcee CB on Dewin - Sarcee line | System stable Good voltage recovery No load shedding |
| B39 | 3ph fault at SubA 240kV line to SubB 5 cycles: trip SubA CB on SubA - SubB line 6 cycles: trip SubB CB on SubA - SubB line | System stable Good voltage recovery No load shedding |
| B40 | 3ph fault at SubB 240kV line to SubA 5 cycles: trip SubB CB on SubB - SubA line 6 cycles: trip SubA CB on SubB - SubA line | System stable Good voltage recovery No load shedding |
| B41 | 3ph fault at SubB 240kV line to SubC 5 cycles: trip SubB CB on SubB - SubC line 6 cycles: trip SubC CB on SubB - SubC line | System stable Good voltage recovery No load shedding |
| B42 [*] | 3ph fault at SubC 240kV line to SubB 5 cycles: trip SubC CB on SubC - SubB line 6 cycles: trip SubB CB on SubC - SubB line | System stable Good voltage recovery No load shedding |
| B43 | 3ph fault at SubC 240kV line to Matl 5 cycles: trip SubC CB on SubC - Matl line 6 cycles: trip Matl CB on SubC - Matl line | System stable Good voltage recovery No load shedding |
| B44 [*] | 3ph fault at Matl 240kV line to SubC 5 cycles: trip Matl CB on Matl - SubC line 6 cycles: trip SubC CB on Matl - SubC line | System stable Good voltage recovery No load shedding |
| B45 [*] | 3ph fault at SubC 240kV line to SubD 5 cycles: trip SubC CB on SubC - SubD line 6 cycles: trip SubD CB on SubC - SubD line | System stable Good voltage recovery No load shedding |
| B46 | 3ph fault at SubD 240kV line to SubC 5 cycles: trip SubD CB on SubD - SubC line 6 cycles: trip SubC CB on SubD - SubC line | System stable Good voltage recovery No load shedding |
| B47 [*] | 3ph fault at SubD 240kV line to Med_Hat 5 cycles: trip SubD CB on SubD - Med_Hat line 6 cycles: trip Med_Hat CB on SubD - Med_Hat line | System stable Good voltage recovery No load shedding |
| B48 | 3ph fault at Med_Hat 240kV line to SubD 5 cycles: trip Med_Hat CB on Med_Hat - SubD line 6 cycles: trip SubD CB on Med_Hat - SubD line | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

** Stability simulation plots for V82 and GE machines are included in Appendix E.

TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|---------|---|--|
| B49 | 3ph fault at Matl 240kV line to N_Leth 5 cycles: trip Matl CB on Matl - N_Leth line 6 cycles: trip N_Leth CB on Matl - N_Leth line | System stable Good voltage recovery No load shedding |
| B50* | 3ph fault at Med_Hat 240kV line to WBrook 5 cycles: trip Med_Hat CB on Med_Hat - WBrook line 6 cycles: trip WBrook CB on Med_Hat - WBrook line | System stable Good voltage recovery No load shedding |
| B51* | 3ph fault at WBrook 240kV line to Med_Hat 5 cycles: trip WBrook CB on WBrook - Med_Hat line 6 cycles: trip Med_Hat CB on WBrook - Med_Hat line | System stable Good voltage recovery No load shedding |
| B52 | 3ph fault at WBrook 240kV line to Ware_Junction 5 cycles: trip WBrook CB on WBrook - Ware_Junction line 6 cycles: trip Ware_Junction CB on WBrook - Ware_Junction | System stable Good voltage recovery No load shedding |
| B53 | 3ph fault at Cypress 240kV line to Dome_Empress 5 cycles: trip Cypress CB on Cypress - Dome_Empress line 6 cycles: trip Dome_Empress CB on Cypress - | System stable Good voltage recovery No load shedding |
| B54 | 3ph fault at Dome_Empress 240kV line to Cypress 5 cycles: trip Dome_Empress CB on Dome_Empress - 6 cycles: trip Cypress CB on Dome_Empress - Cypress line | System stable Good voltage recovery No load shedding |
| B55 | 3ph fault at WBrook transformer 5 cycles: trip WBrook CB on transformer | System stable Good voltage recovery No load shedding |
| B56* | 3ph fault at Cypress 240kV line to Jenner 5 cycles: trip Cypress CB on Cypress - Jenner line 6 cycles: trip Jenner CB on Cypress - Jenner line | System stable Good voltage recovery No load shedding |
| B57 | 3ph fault at Jenner 240kV line to Cypress 5 cycles: trip Jenner CB on Jenner - Cypress line 6 cycles: trip Cypress CB on Jenner - Cypress line | System stable Good voltage recovery No load shedding |
| B58 | 3ph fault at Cypress 240kV line to WR 5 cycles: trip Cypress CB on Cypress - WR line; trip WR 6 cycles: trip WR CB on Cypress - WR line | System stable Good voltage recovery No load shedding |
| B59 | 3ph fault at WR 240kV line to Cypress 5 cycles: trip WR CB on WR - Cypress line; trip WR 6 cycles: trip Cypress CB on WR - Cypress line | System stable Good voltage recovery No load shedding |
| B60 | 3ph fault at Cypress transformer 5 cycles: trip Cypress CB on transformer | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

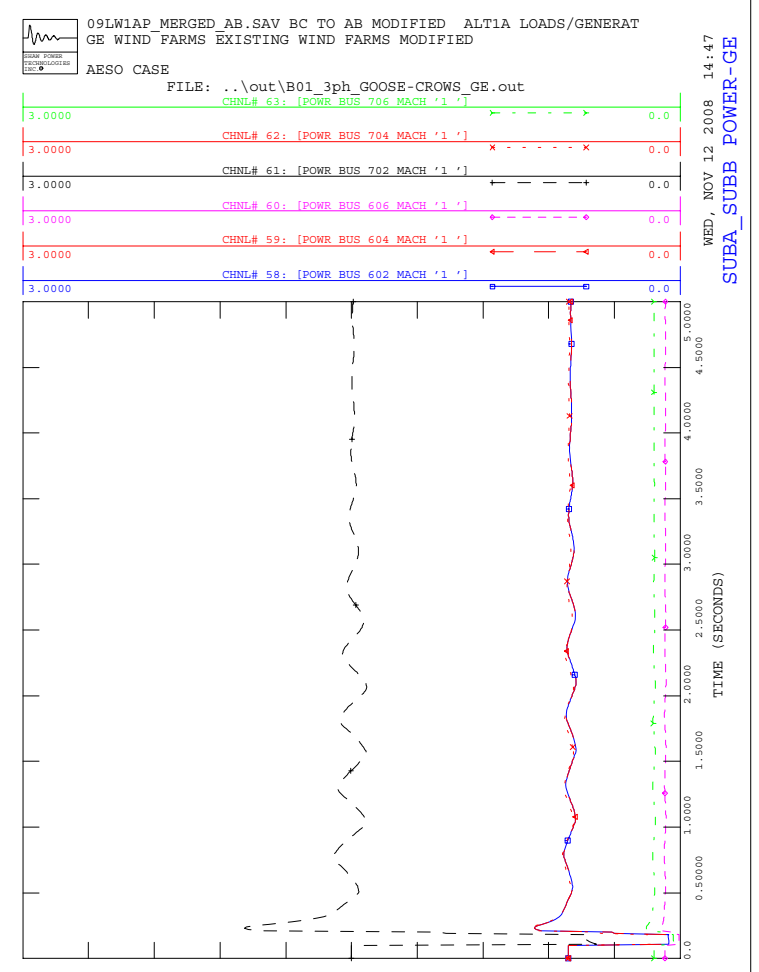
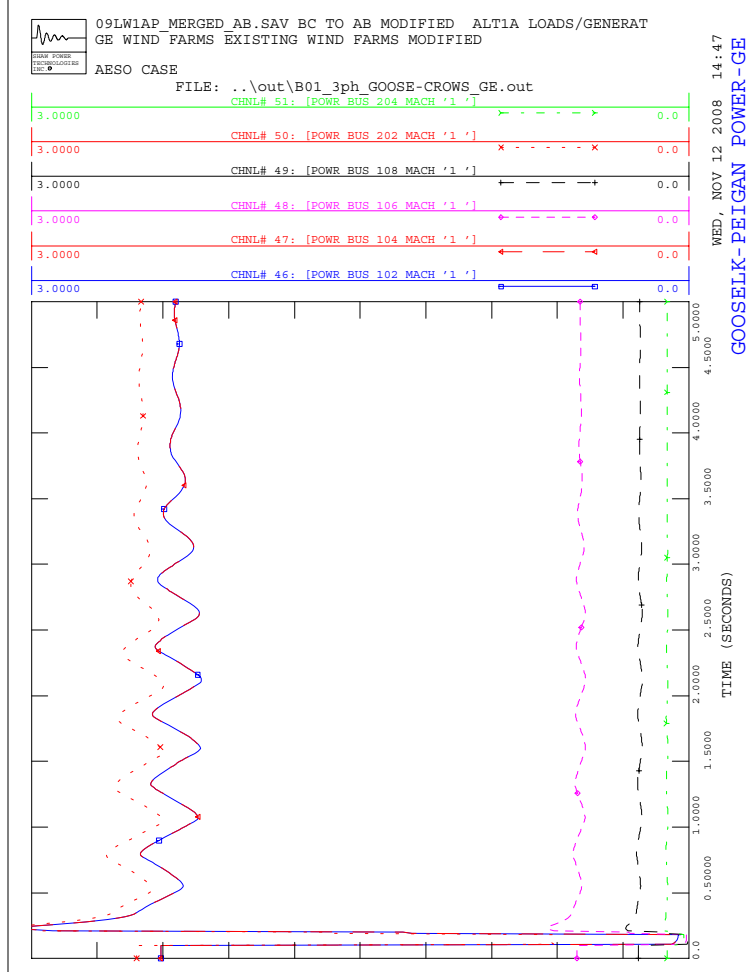
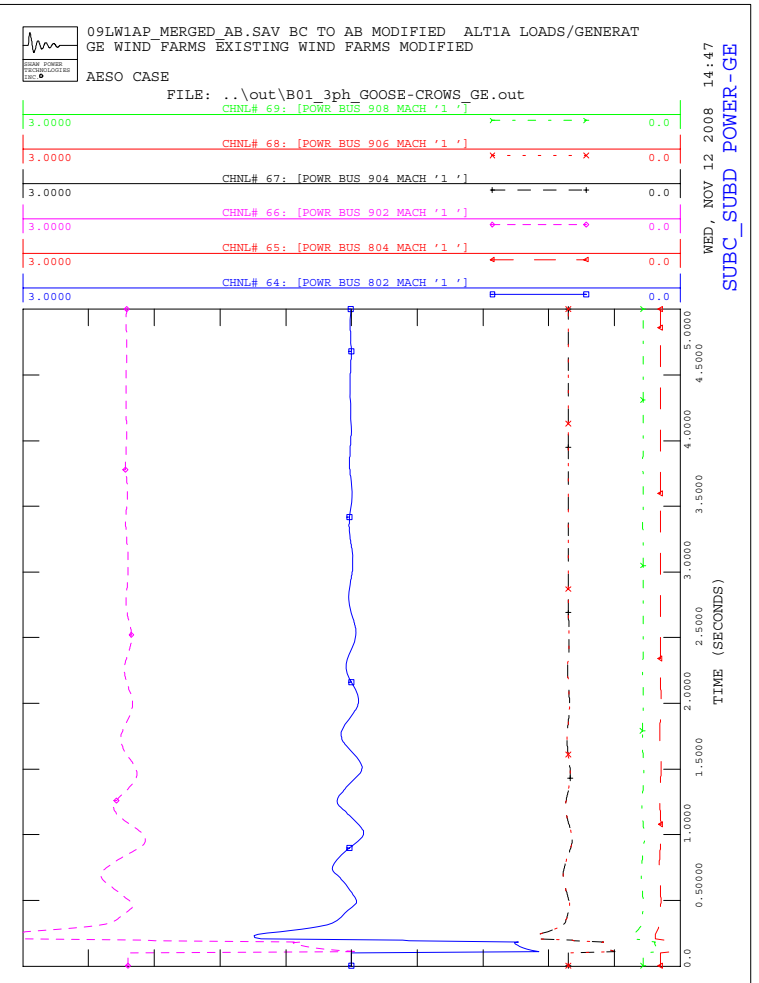
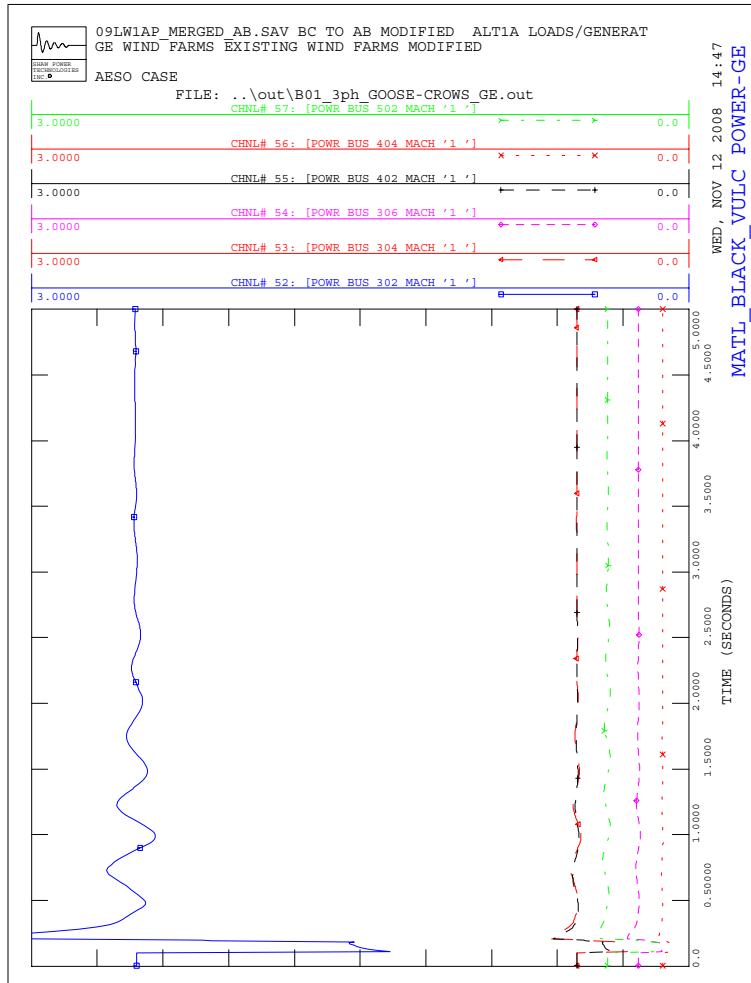
** Stability simulation plots for V82 and GE machines are included in Appendix E.

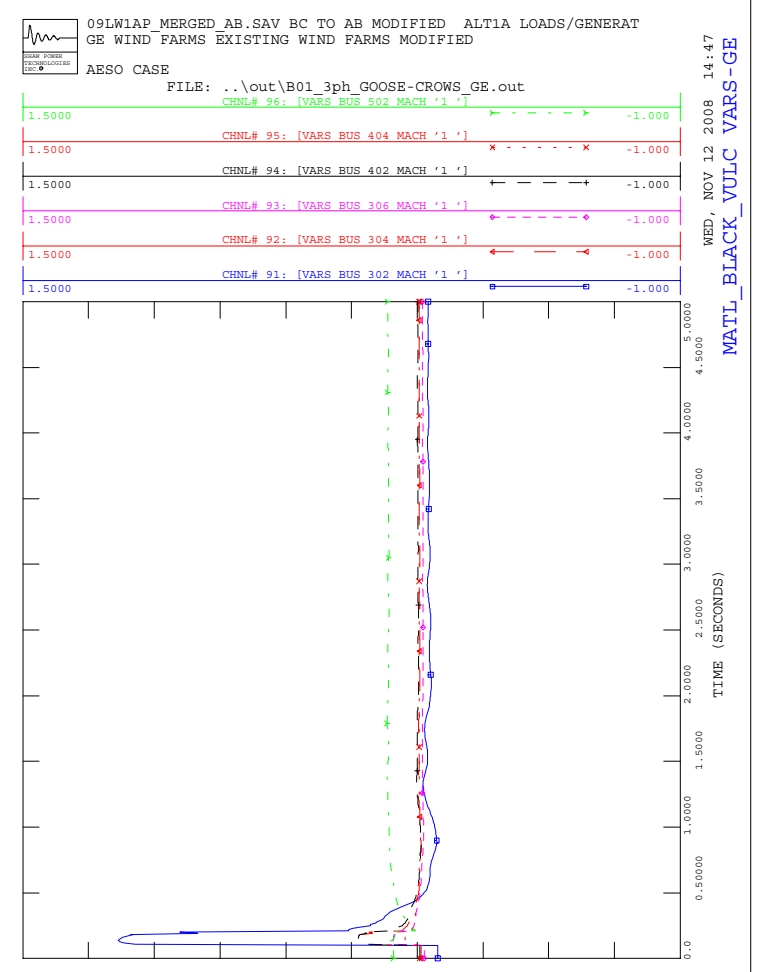
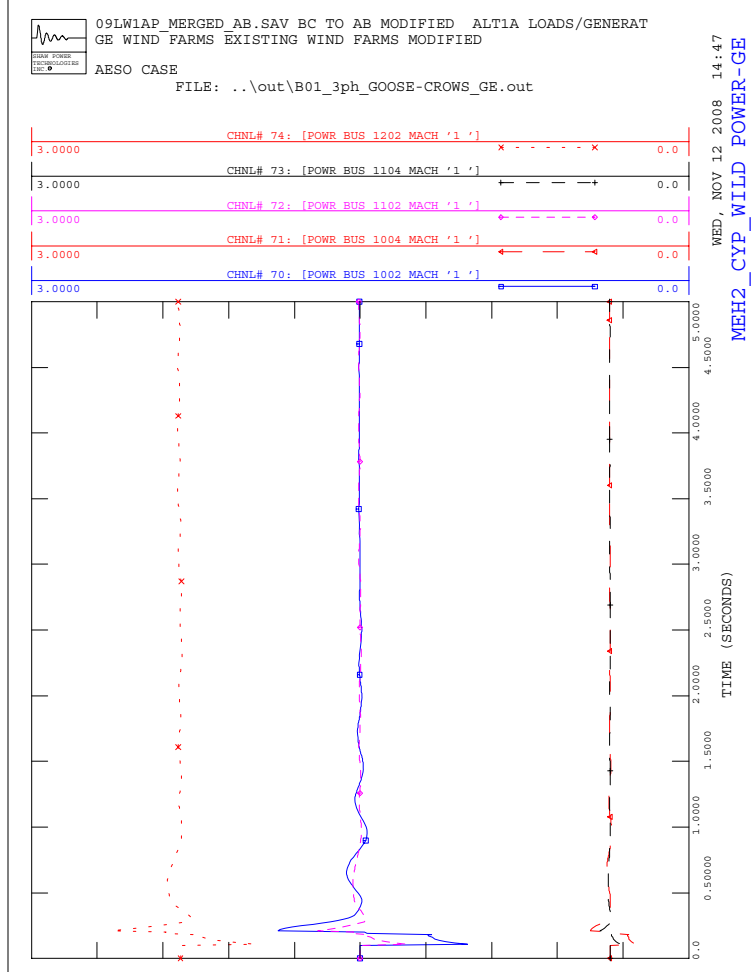
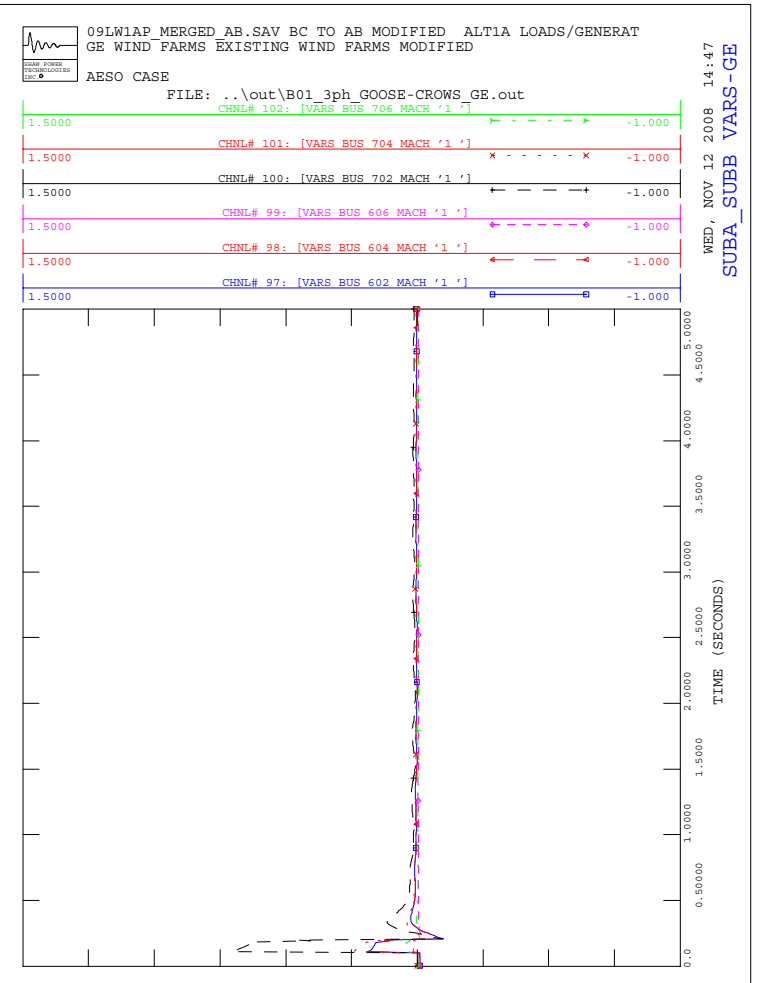
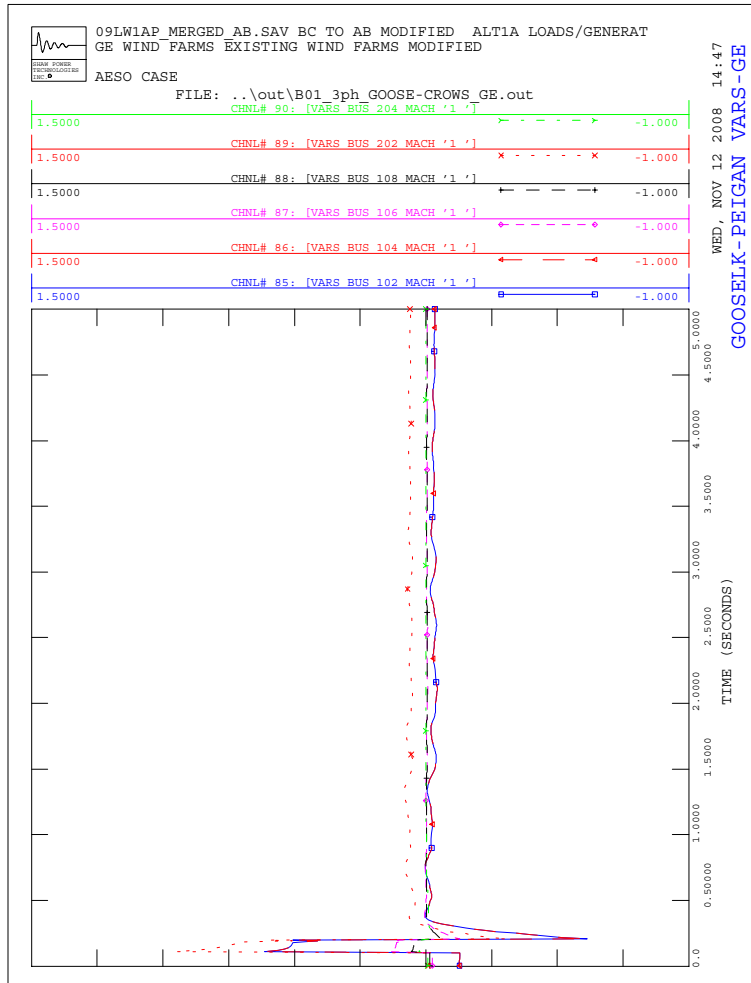
TABLE E-1
STABILITY RESULTS FOR CATEGORY B FAULTS
V82 AND GE1.5 TURBINE

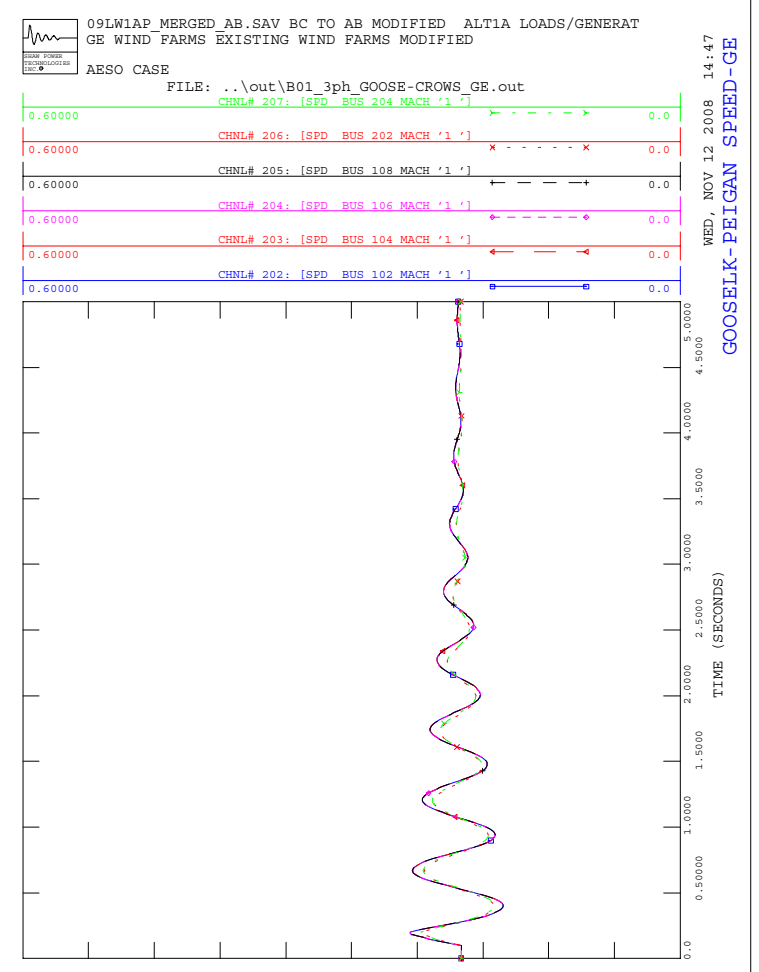
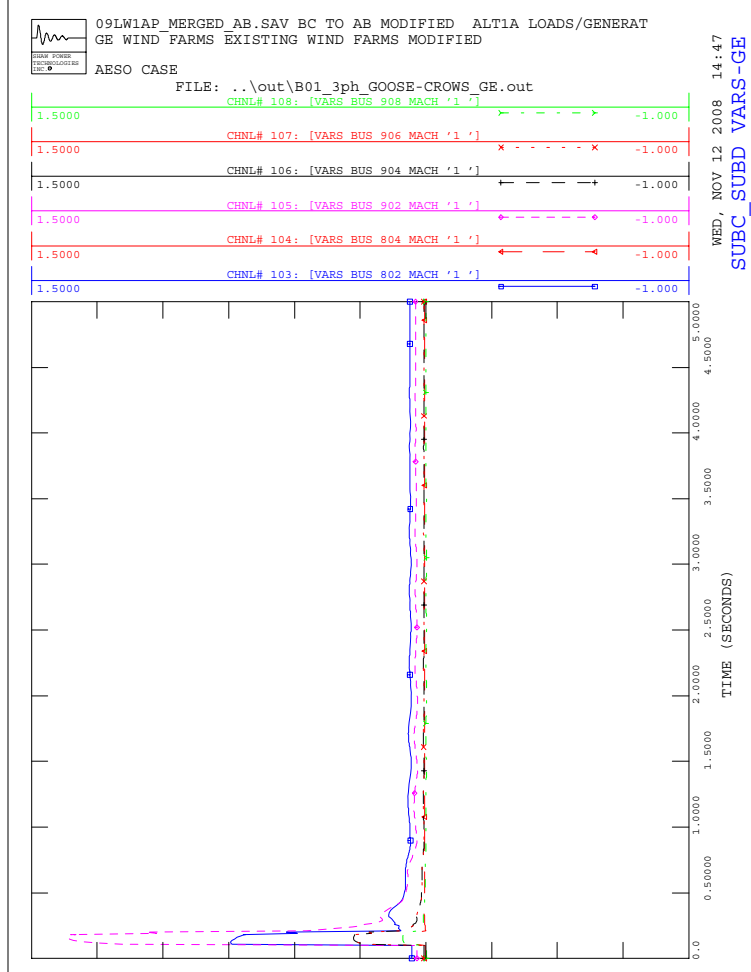
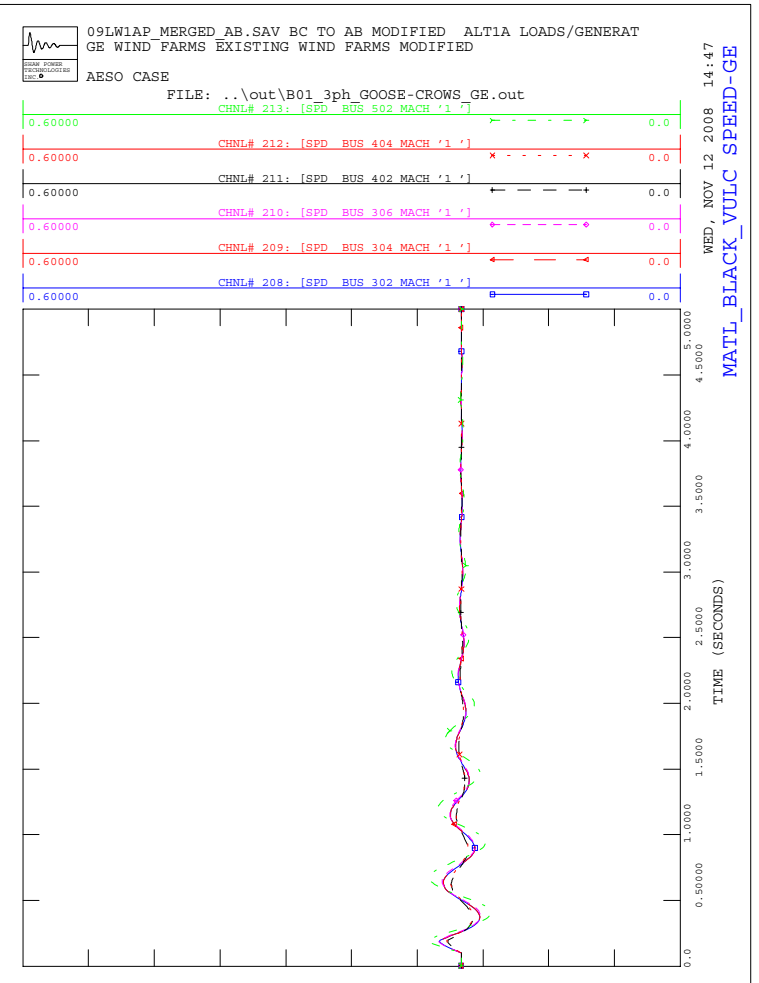
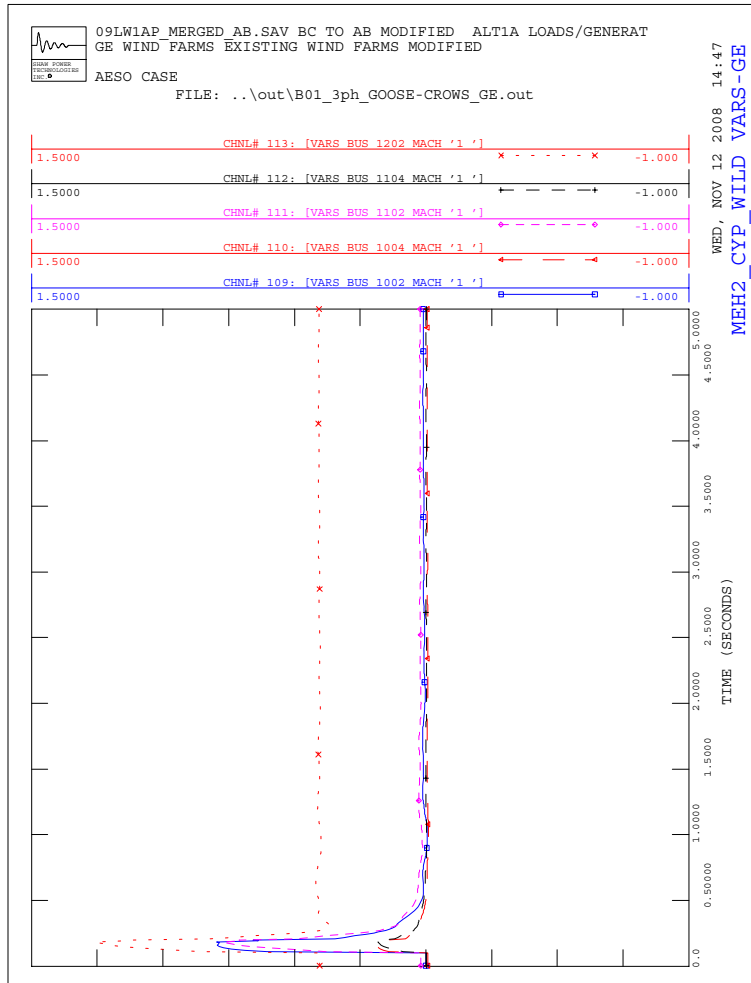
| Case ID | Description | Observations |
|---------|--|--|
| B61** | 3ph fault at Langdon 500kV line to Genesee 4 cycles: trip Langdon CB on Langdon - Genesee line 5 cycles: trip Genesee CB on Langdon - Genesee line | System stable Good voltage recovery No load shedding |
| B62 | 3ph fault at Genesee 500kV line to Langdon 4 cycles: trip Genesee CB on Genesee - Langdon line 5 cycles: trip Langdon CB on Genesee - Langdon line | System stable Good voltage recovery No load shedding |
| B63** | 3ph fault at Crowsnest 500kV line to Cranbook 4 cycles: trip Crowsnest CB on Crowsnest - Cranbook line 5 cycles: trip Cranbook CB on Crowsnest - Cranbook line | System stable Good voltage recovery No load shedding |
| B64 | 3ph fault at Cranbook 500kV line to Crowsnest 4 cycles: trip Cranbook CB on Cranbook - Crowsnest line 5 cycles: trip Crowsnest CB on Cranbook - Crowsnest line | System stable Good voltage recovery No load shedding |

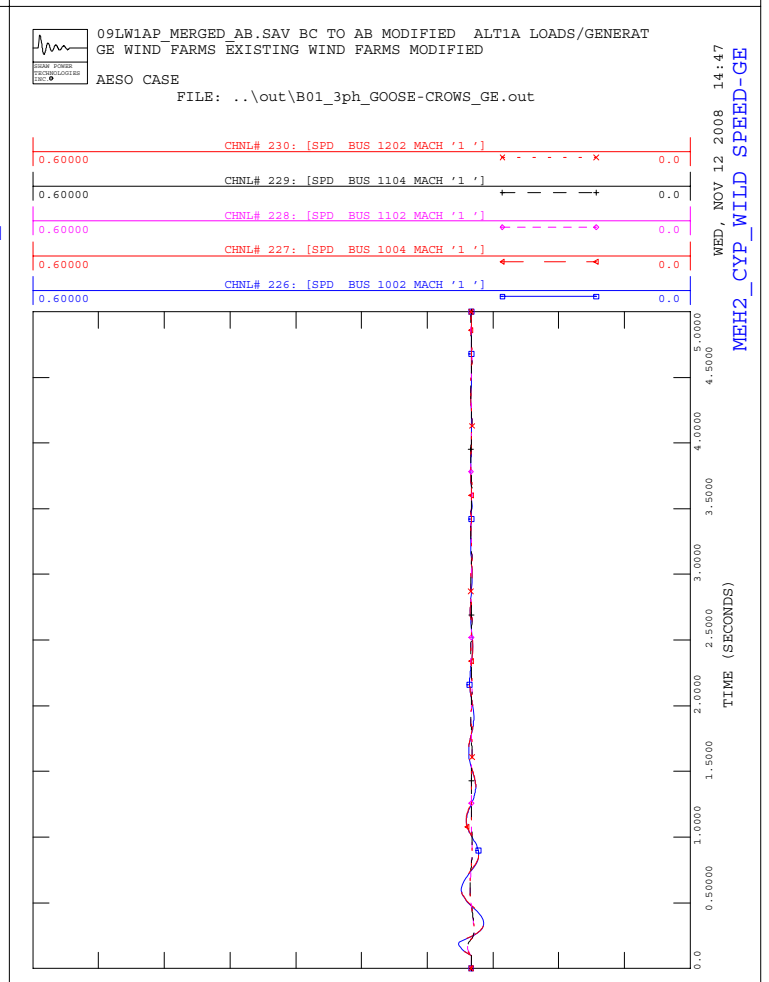
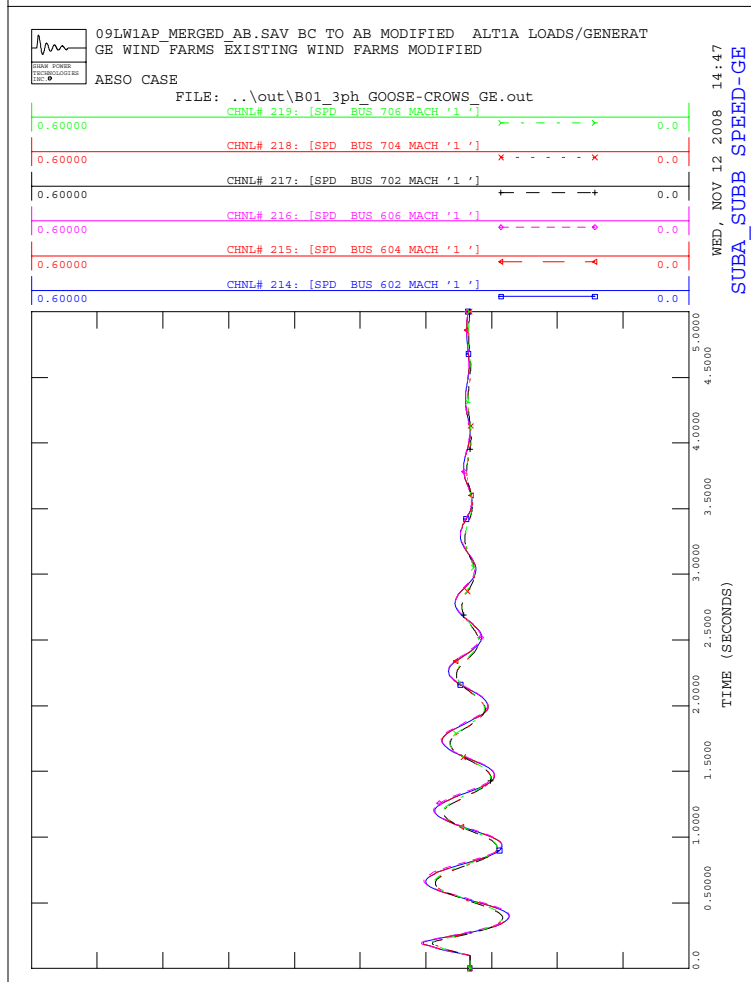
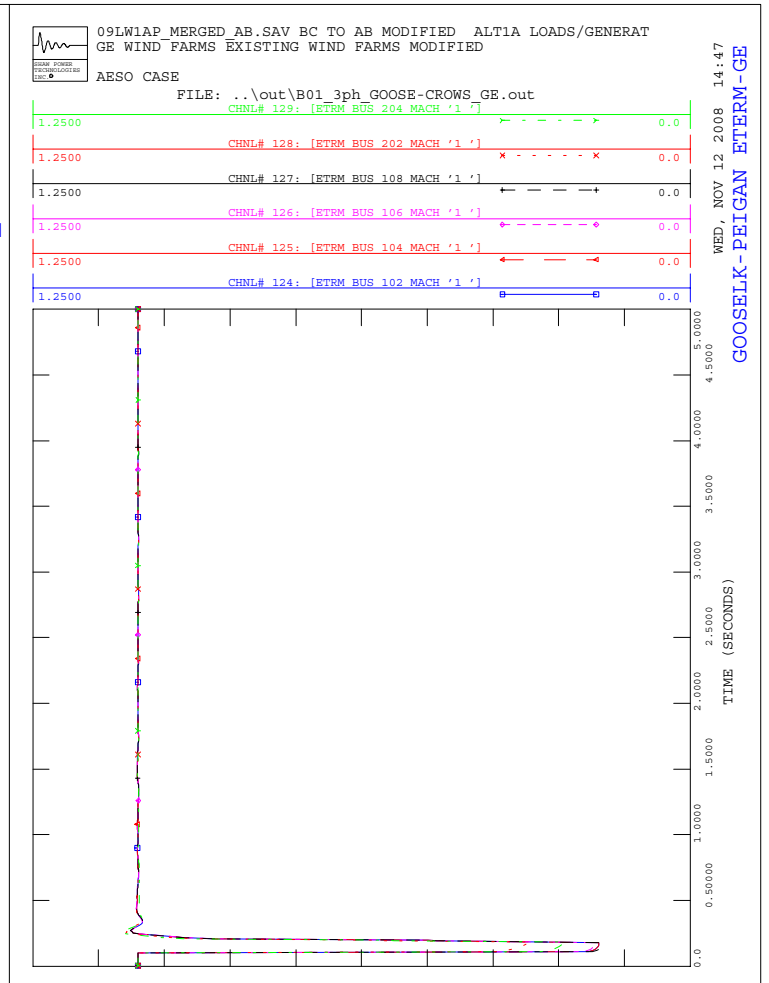
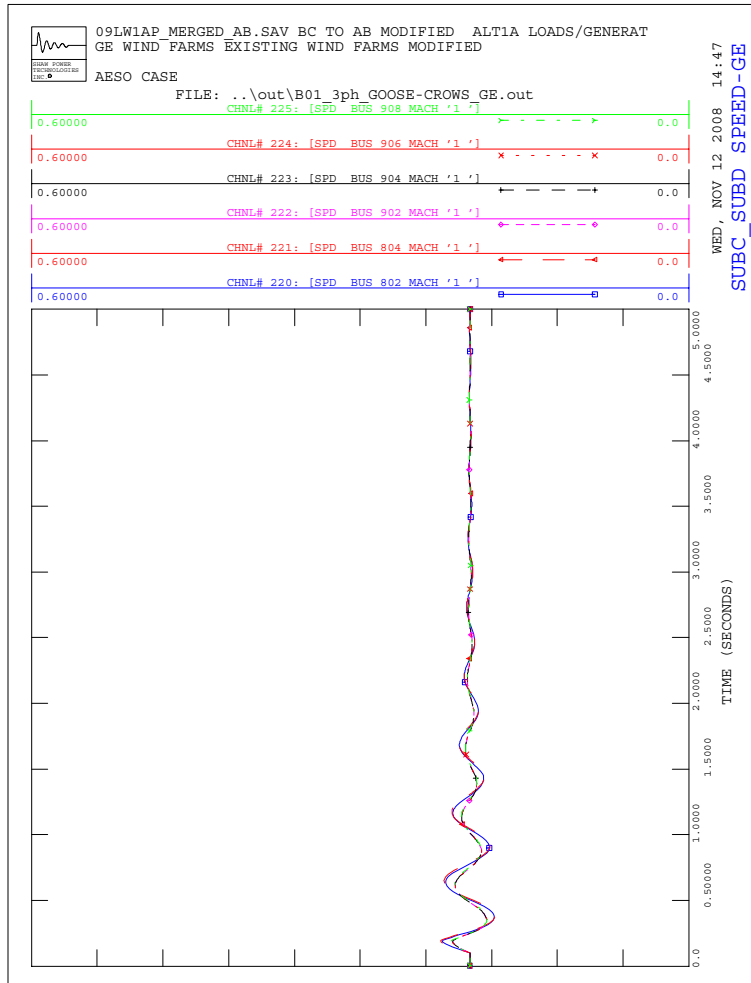
* Stability simulation plots for V82 machine are included in Appendix E.

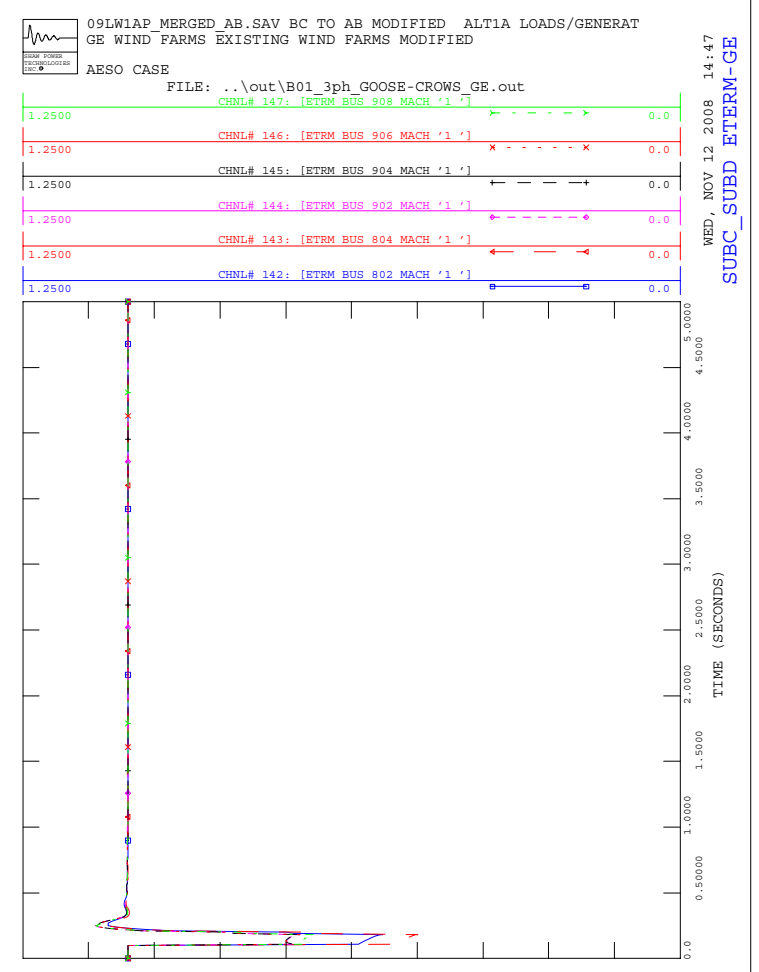
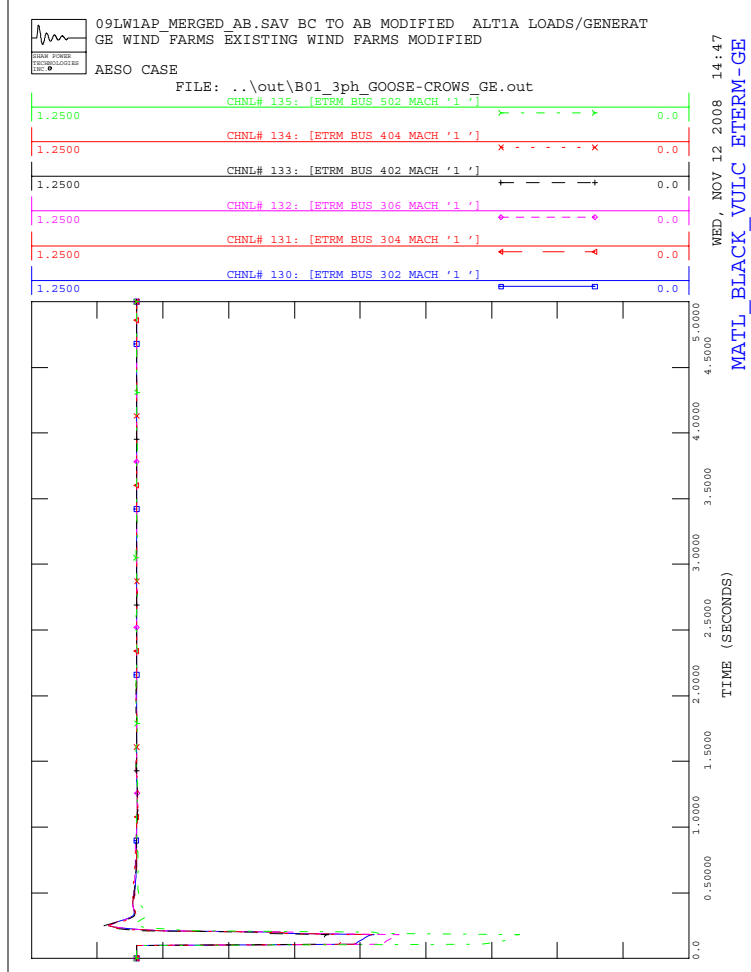
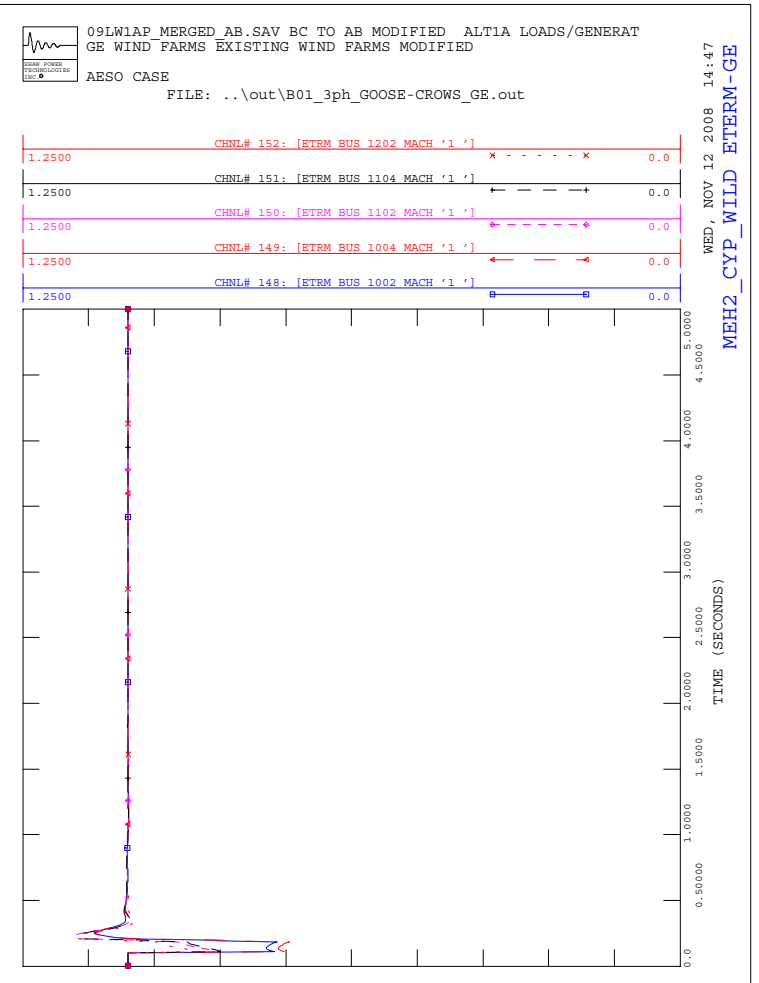
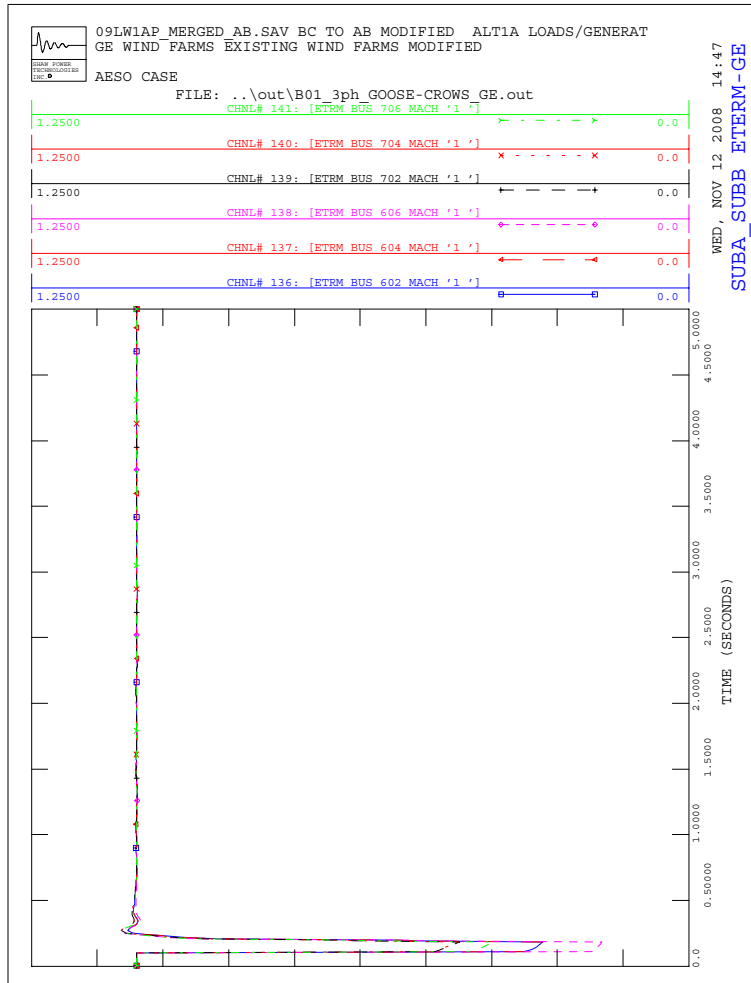
** Stability simulation plots for V82 and GE machines are included in Appendix E.

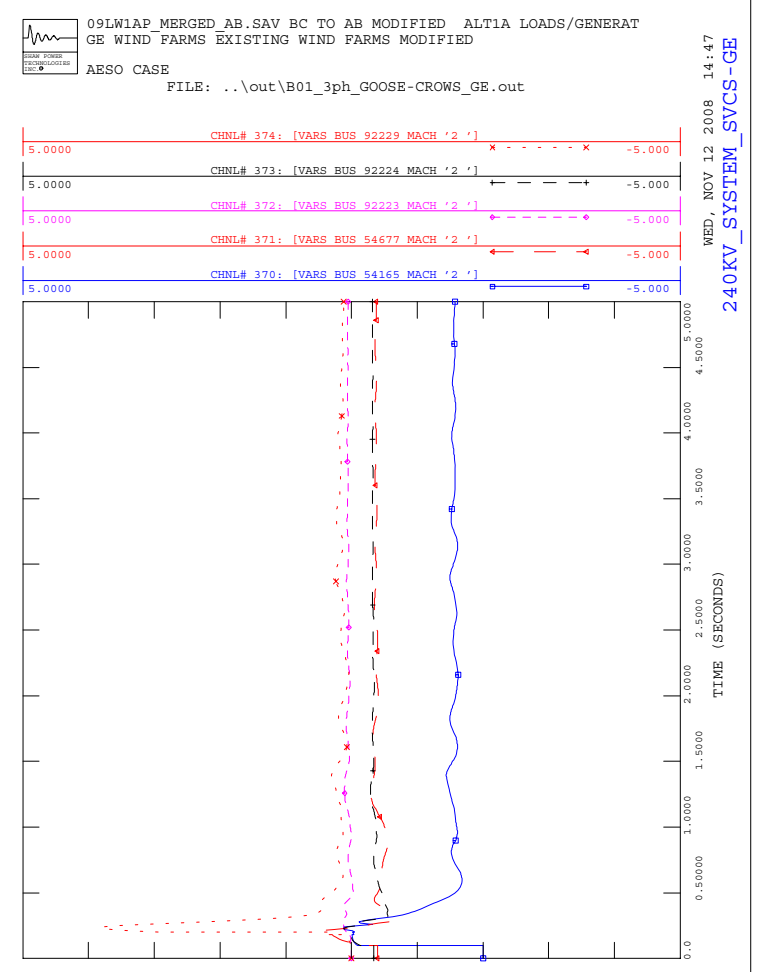
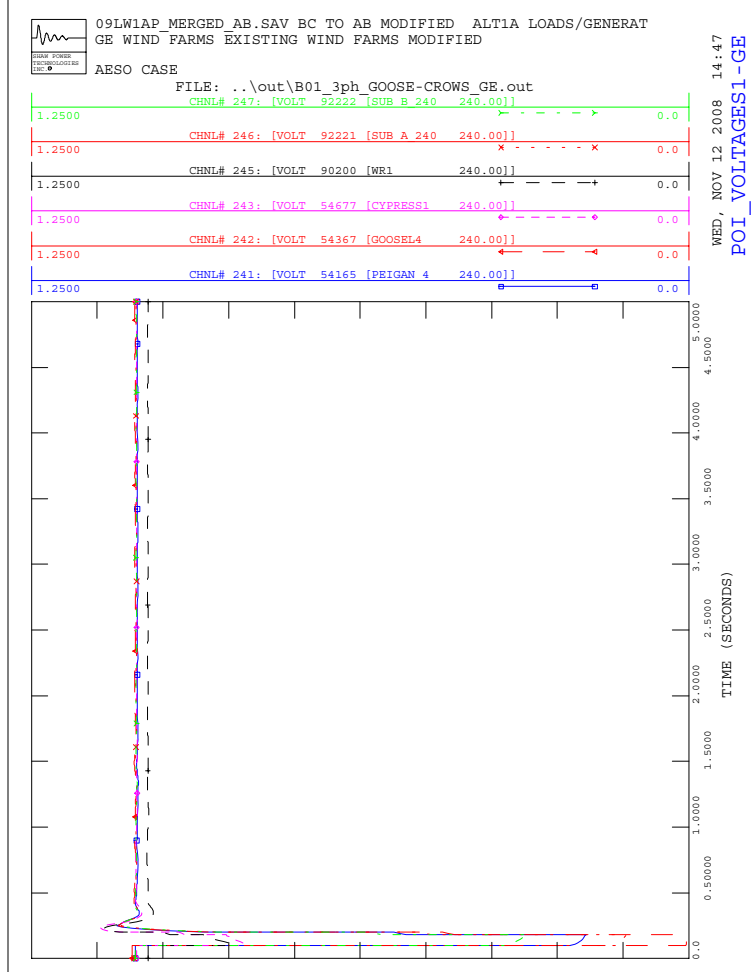
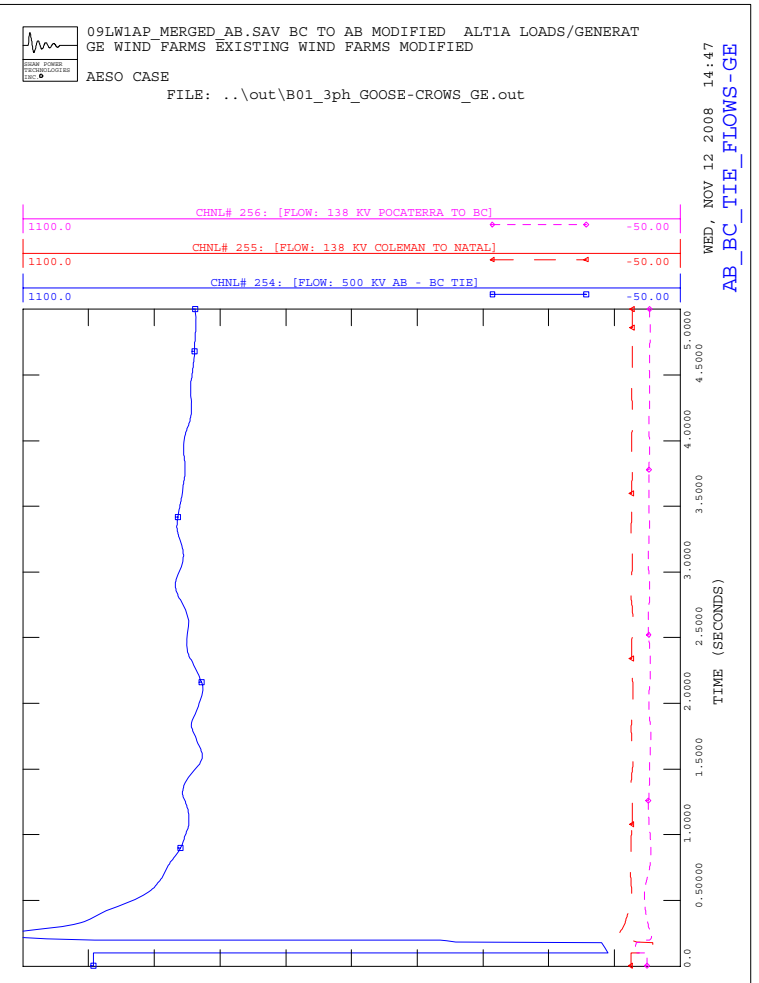
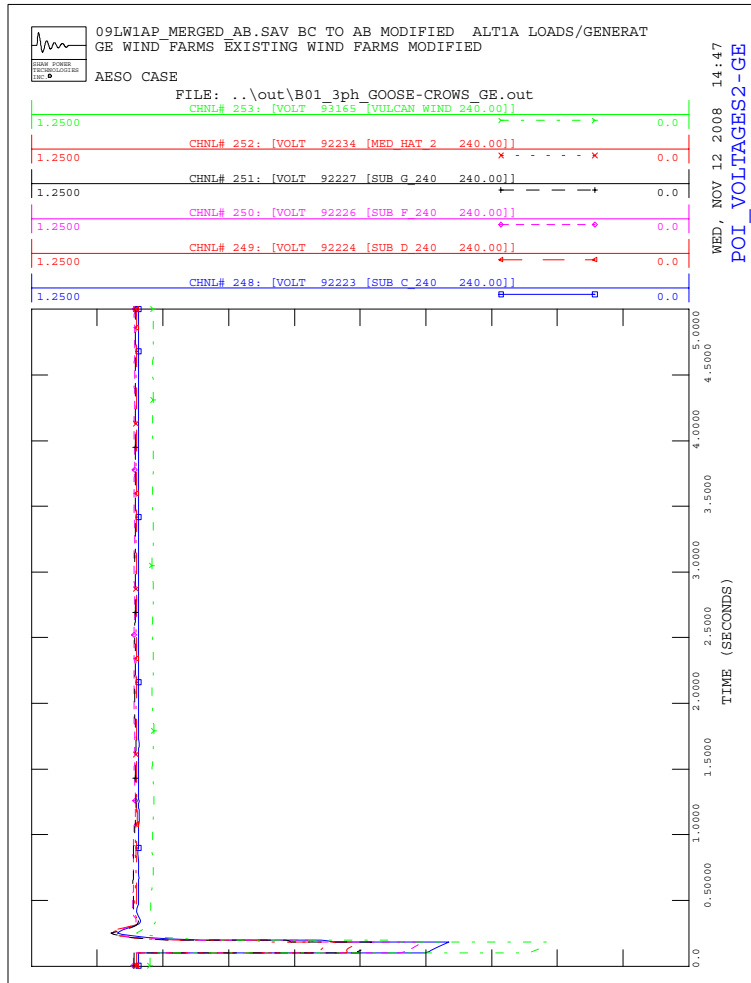






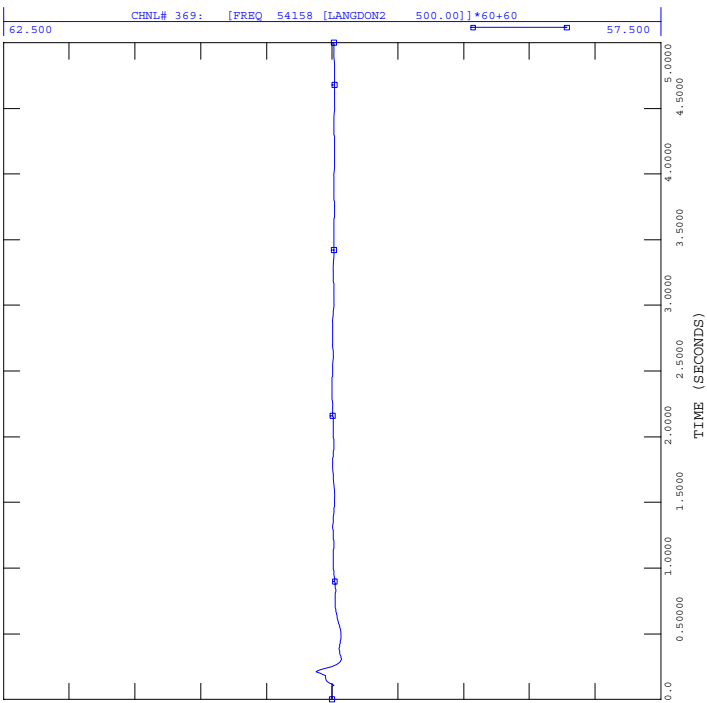


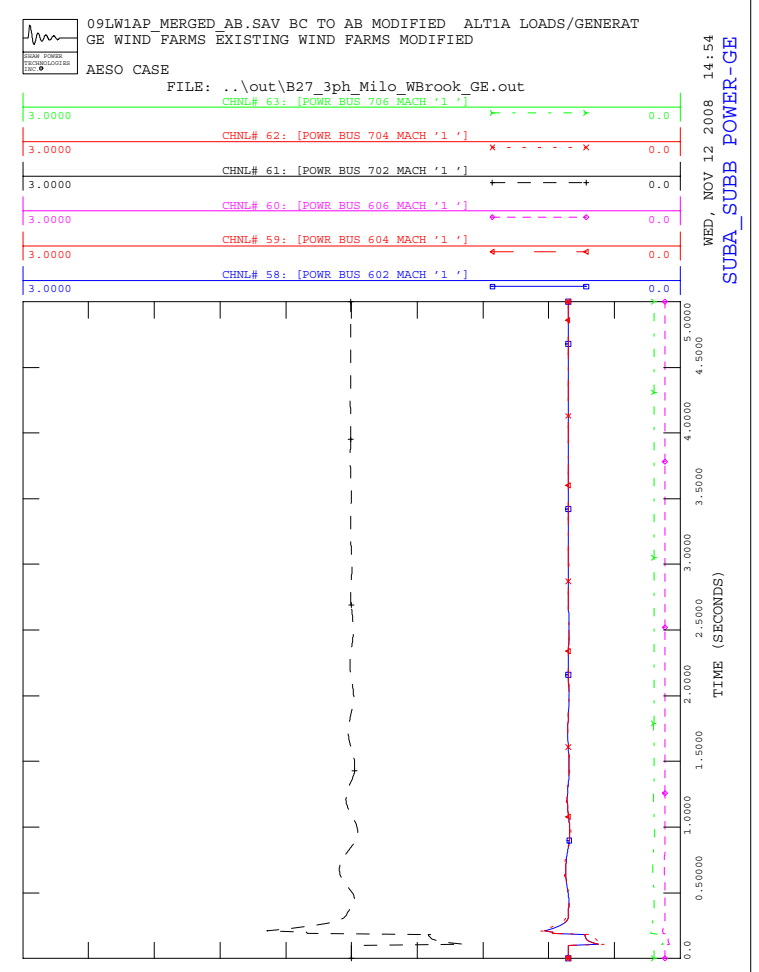
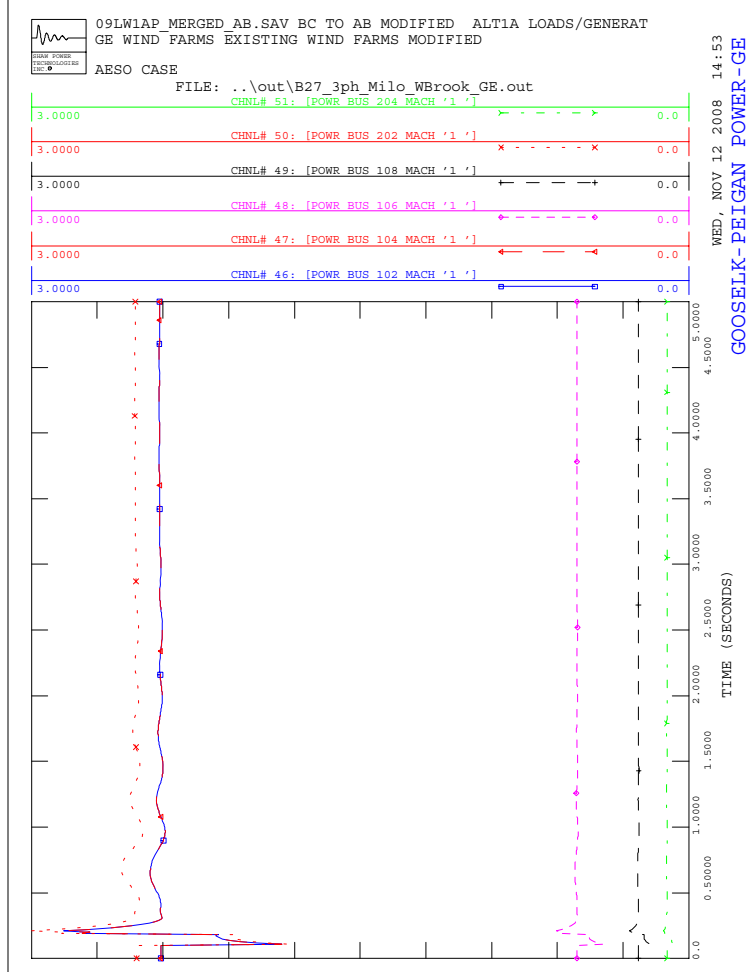
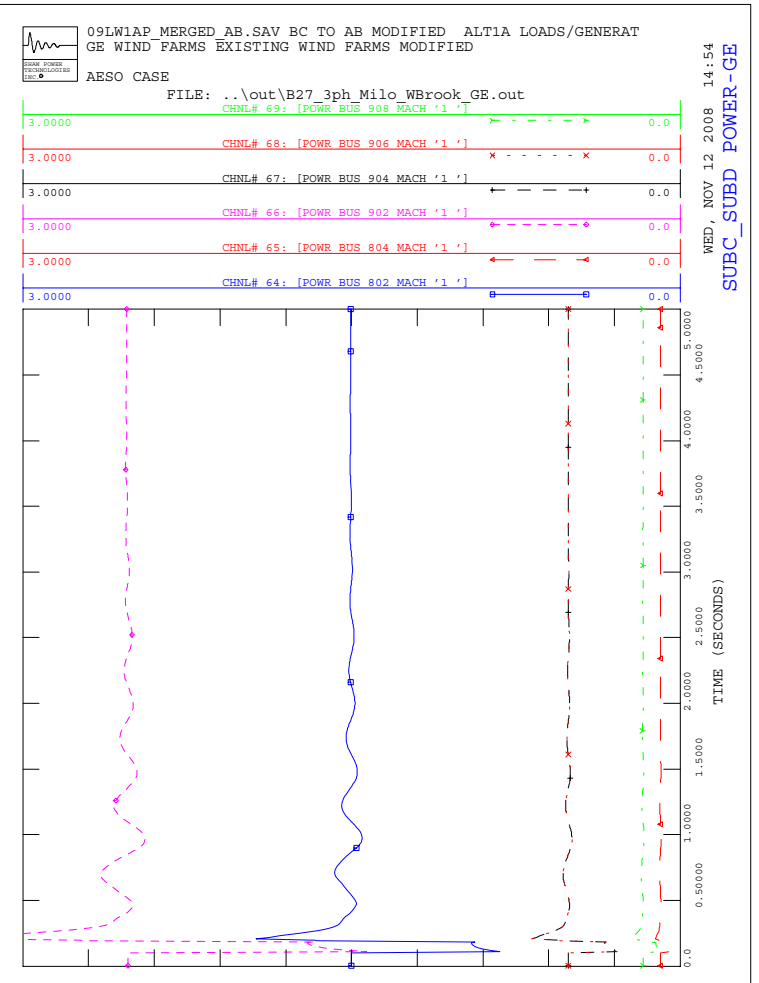
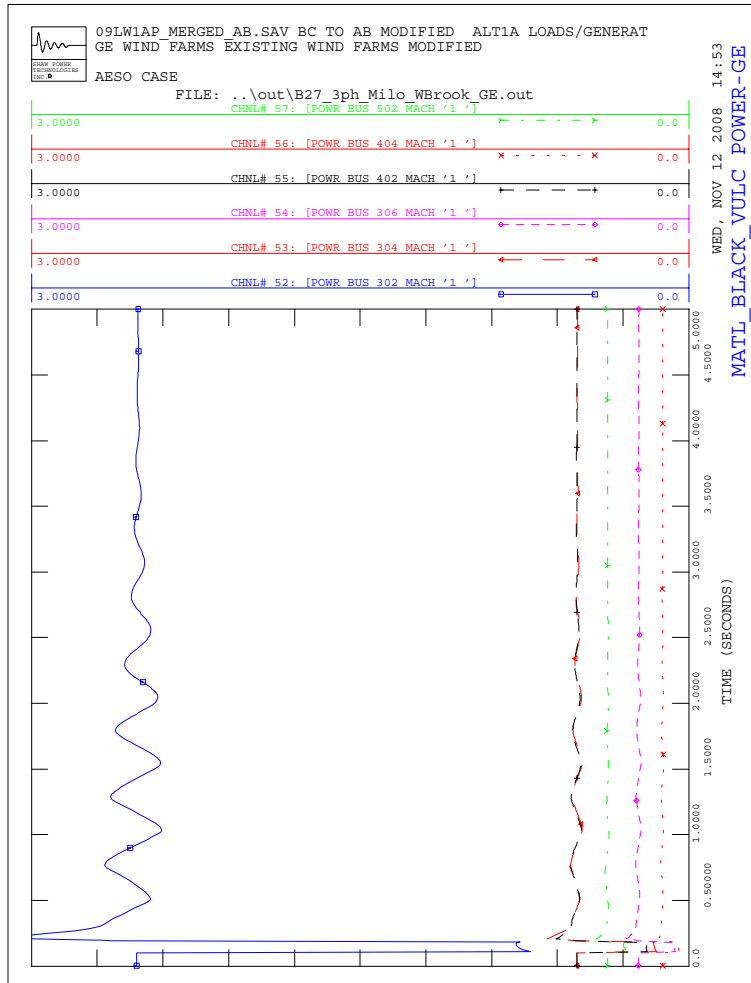


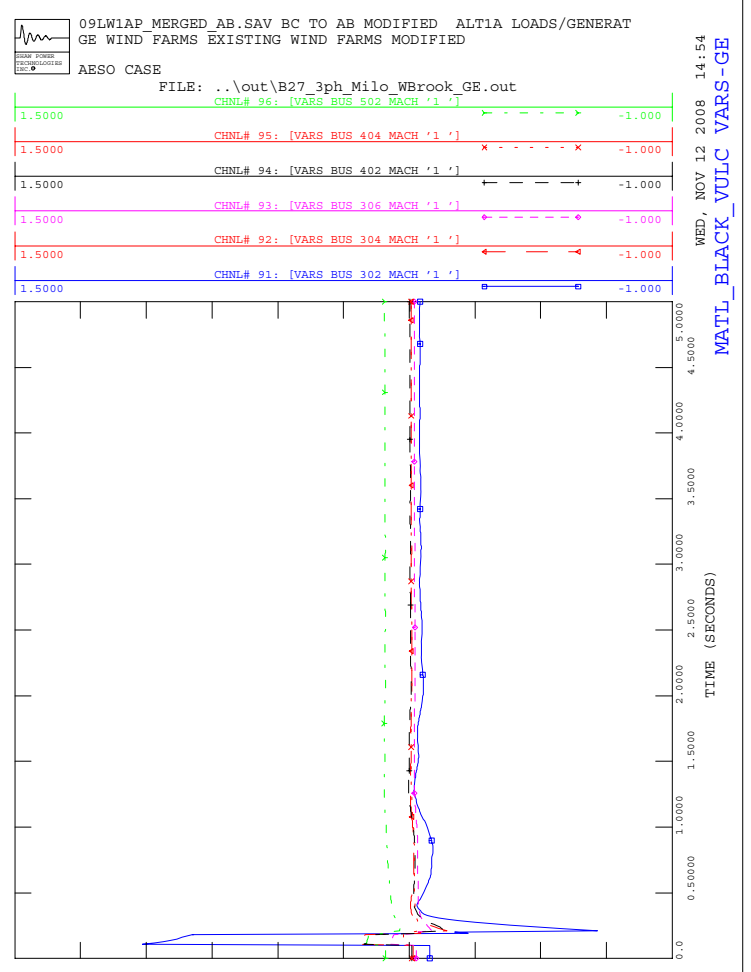
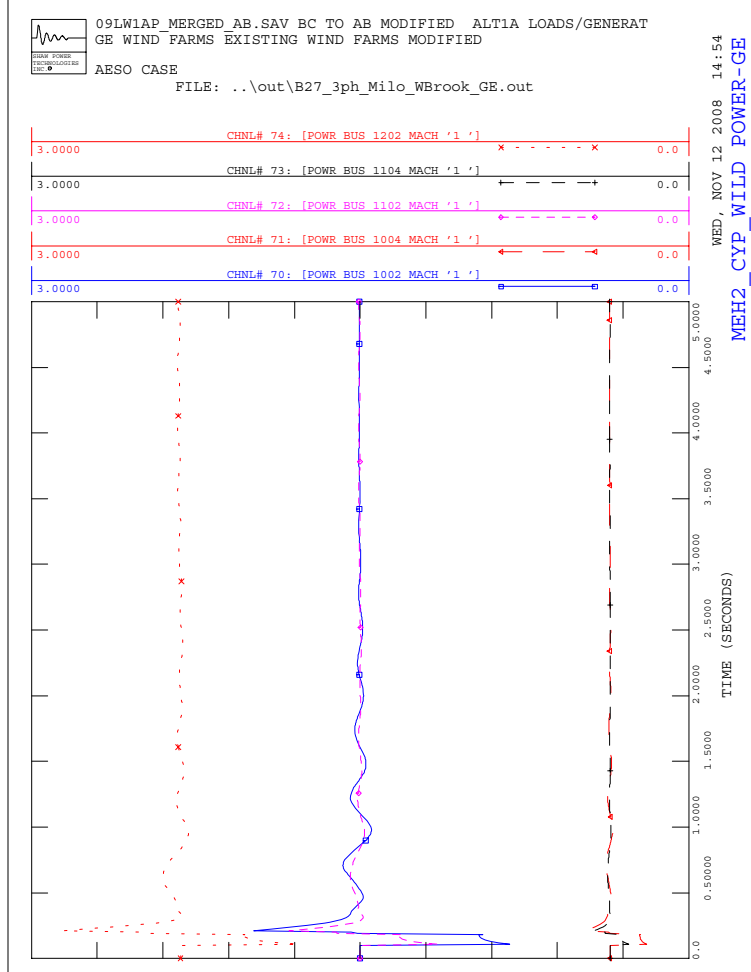
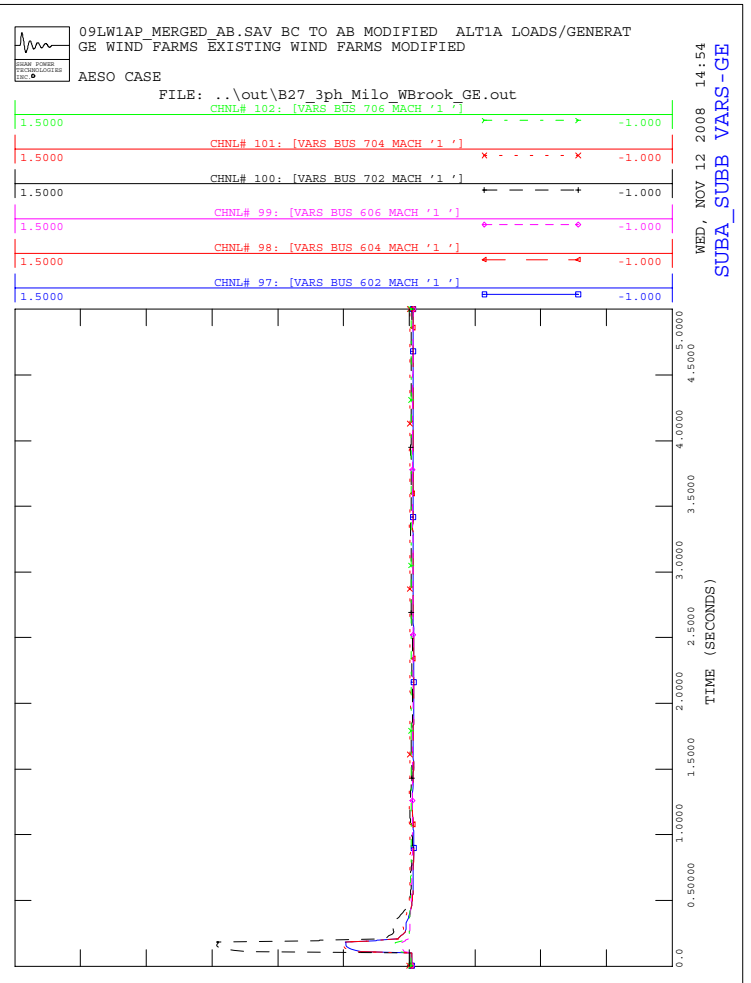
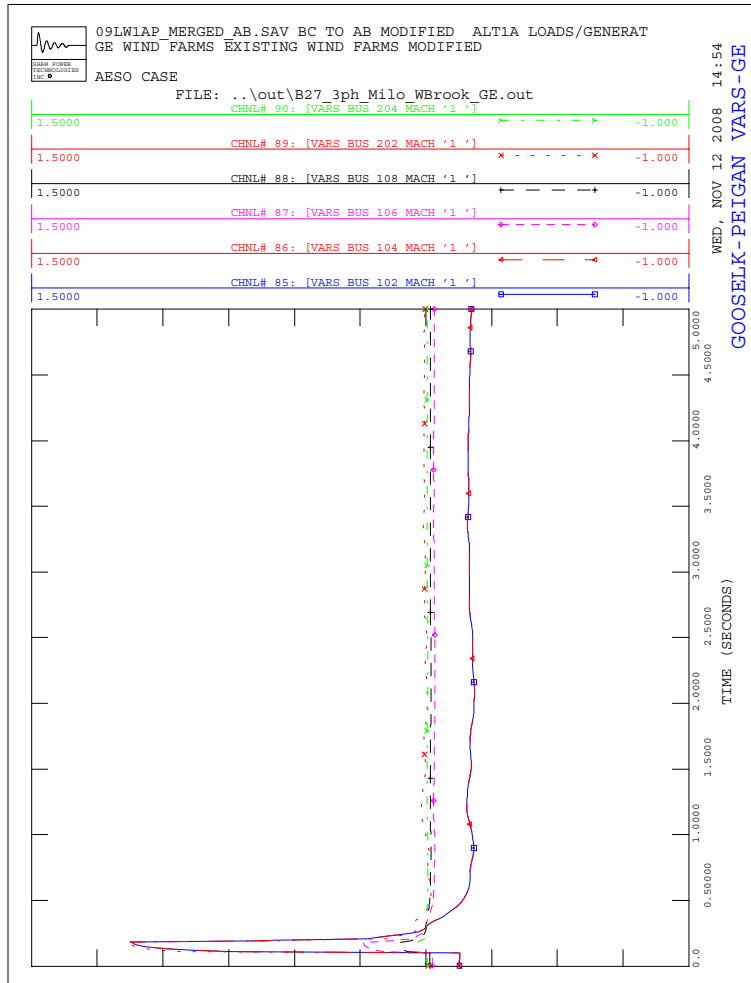


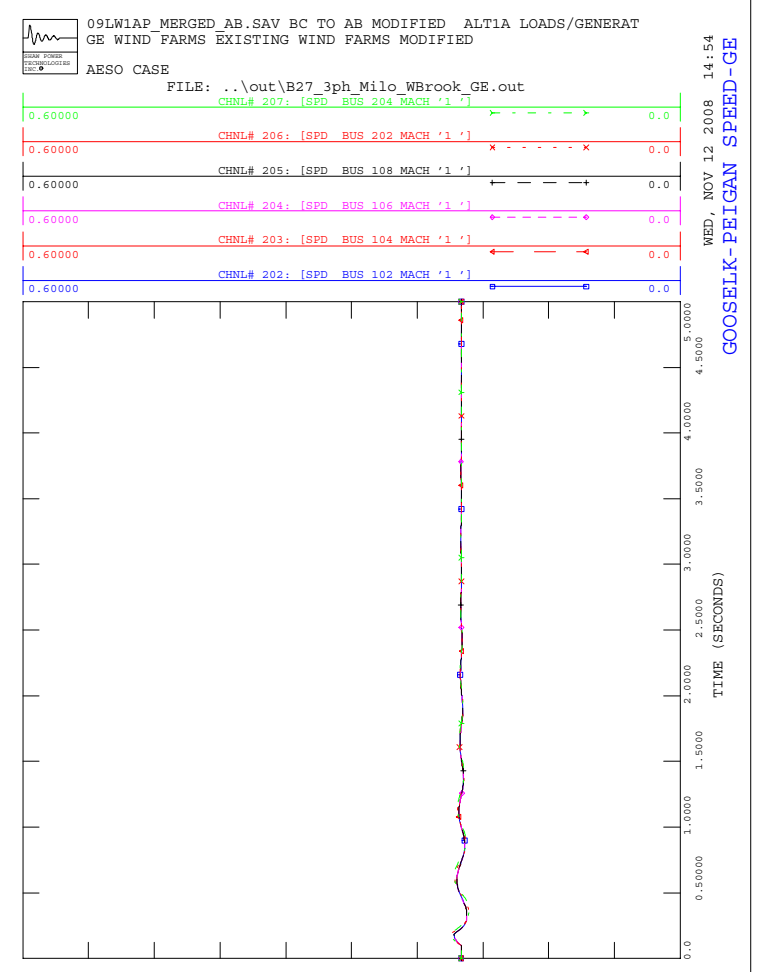
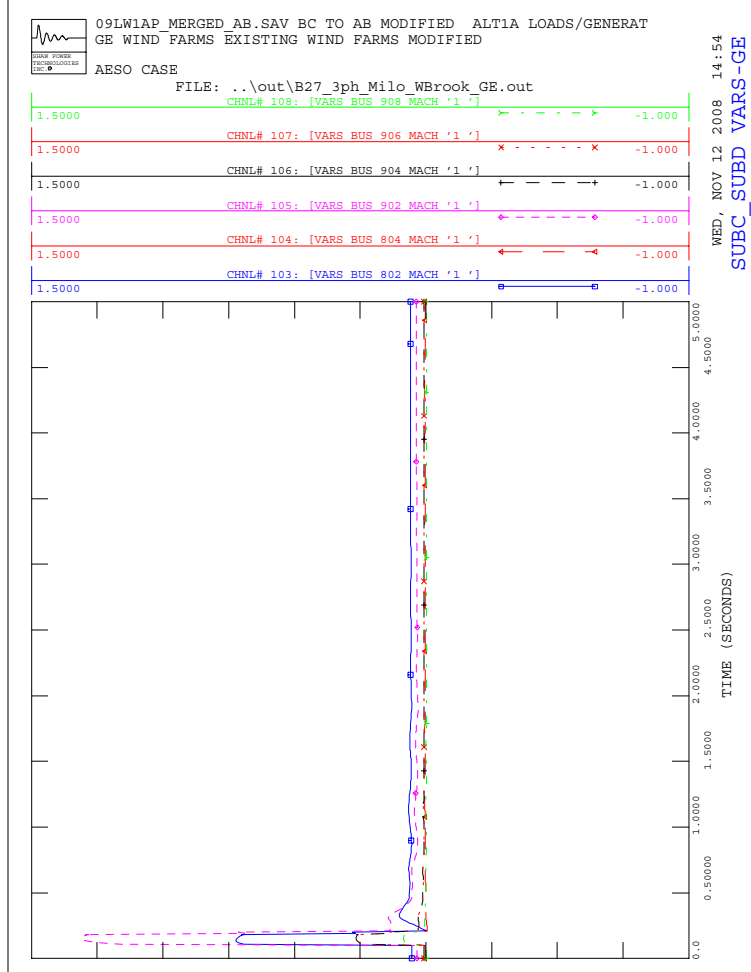
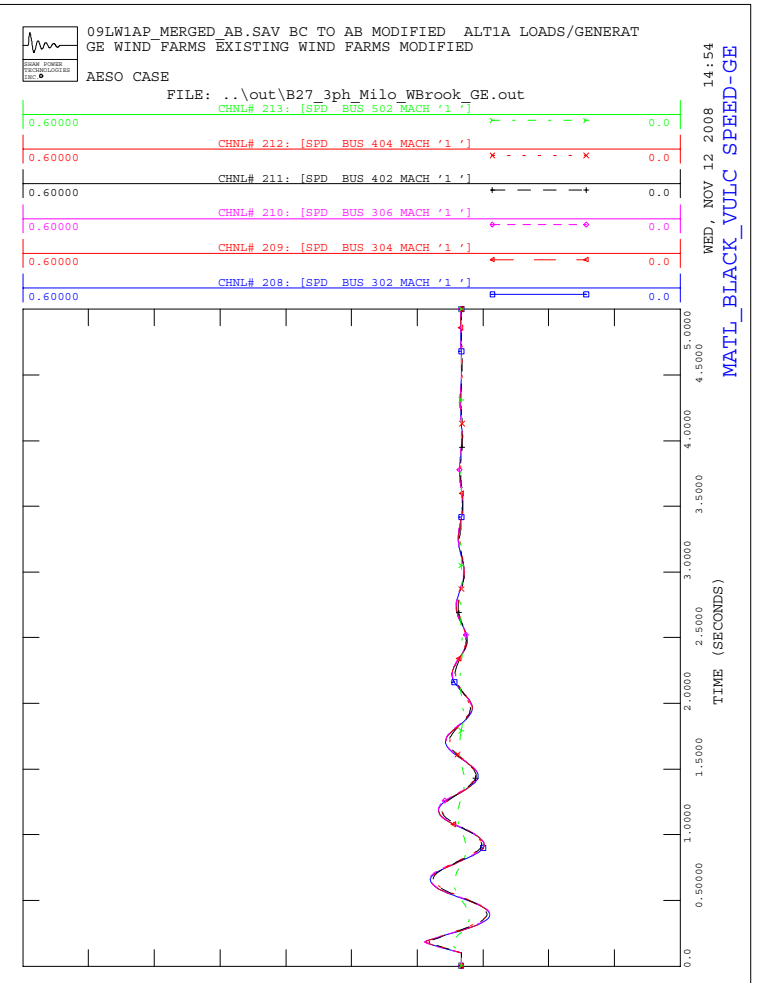
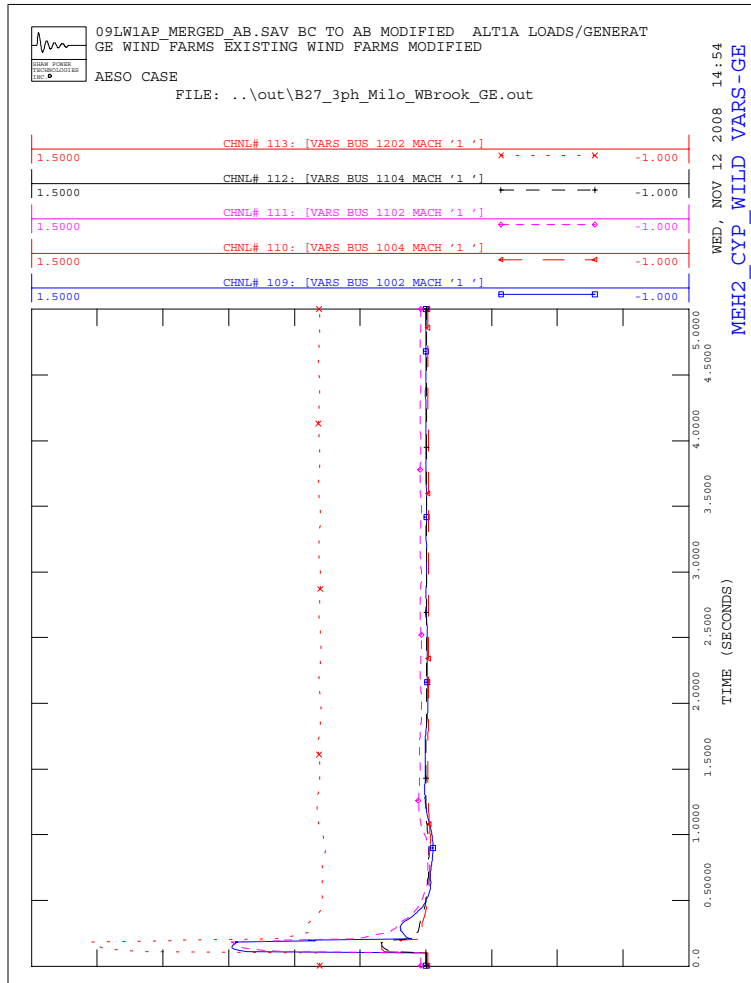
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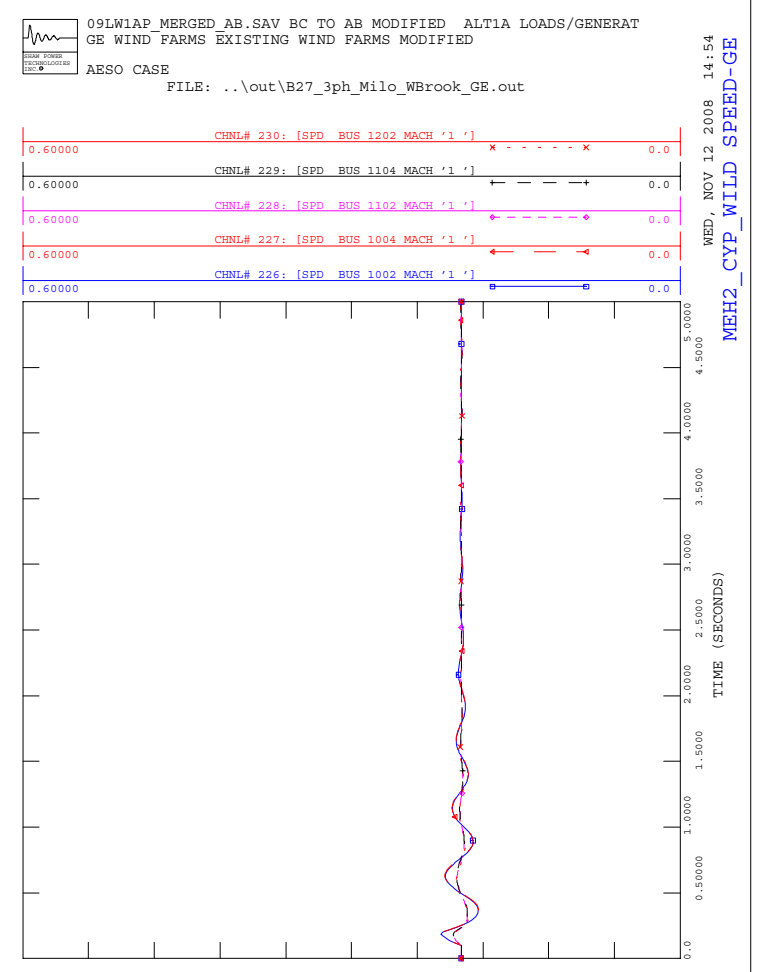
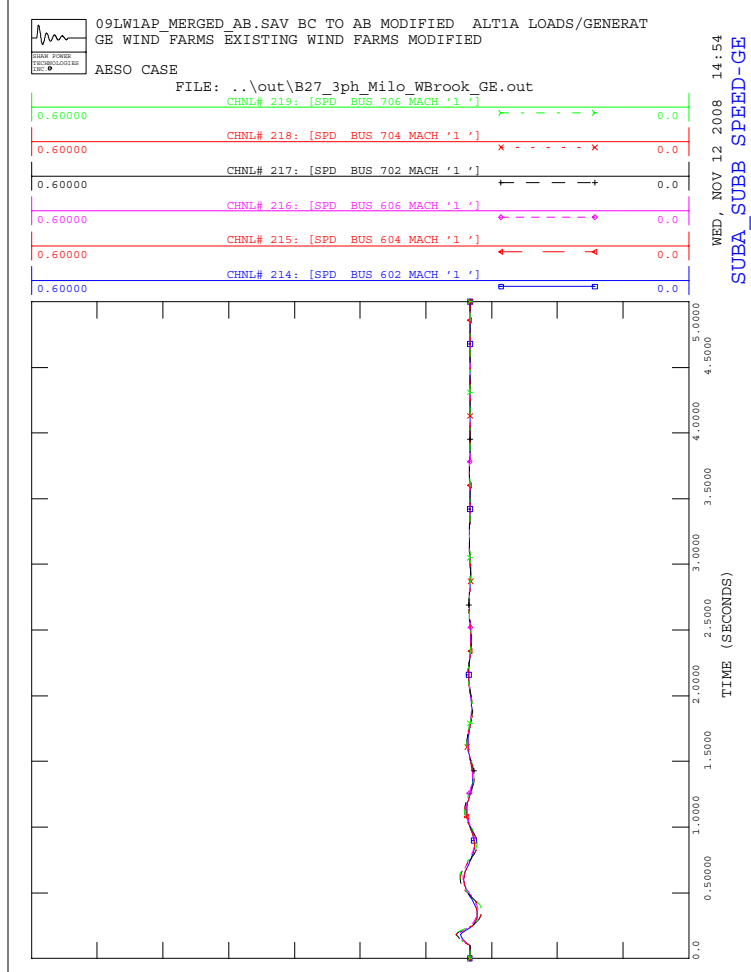
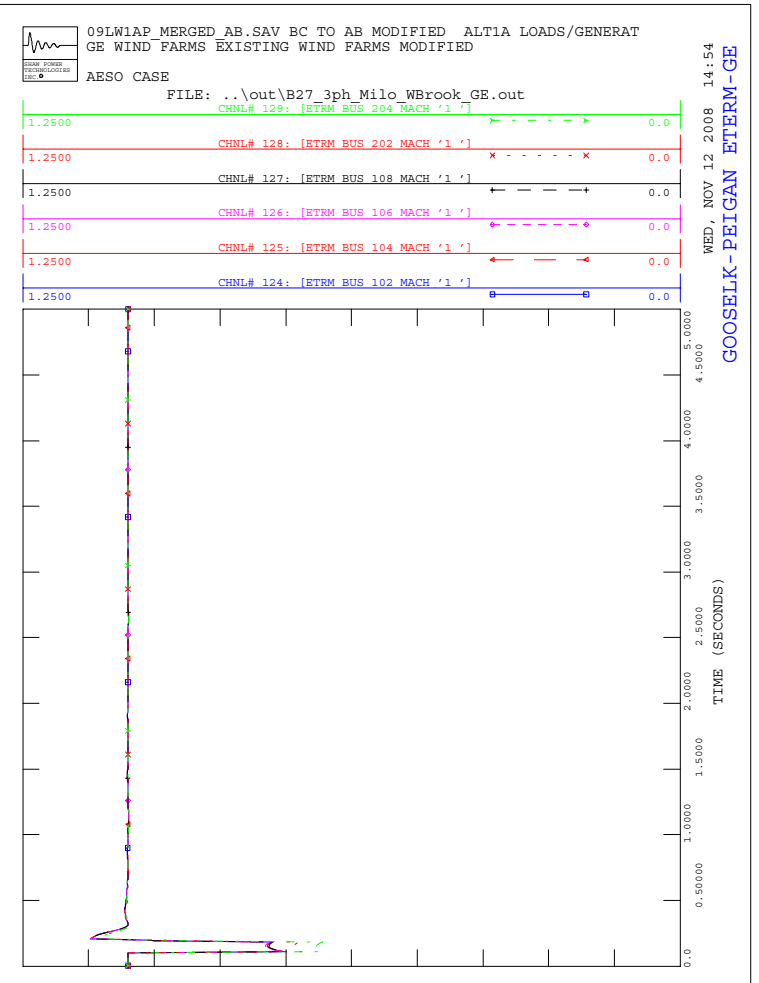
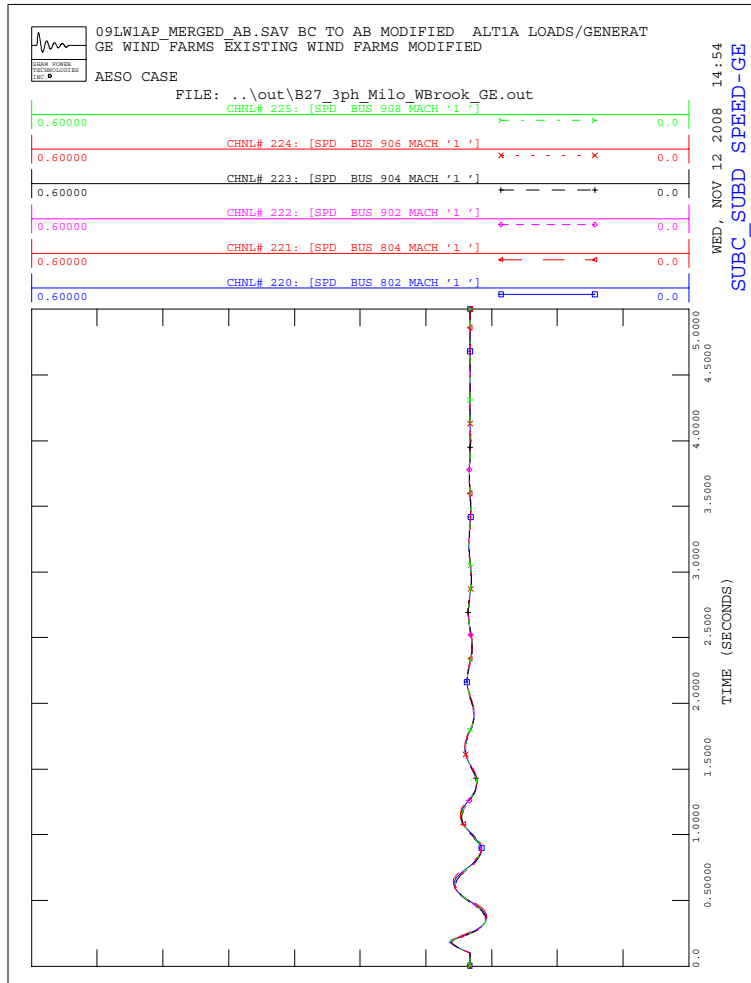
WED, NOV 12 2008 14:47
LANGDON_FRQ-GE

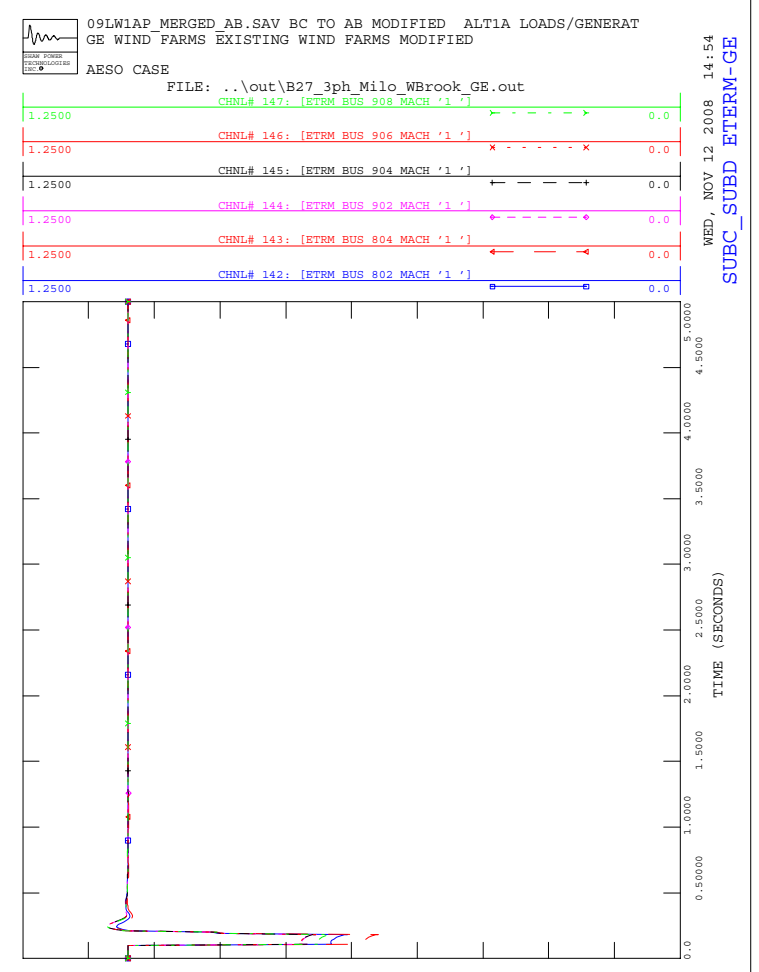
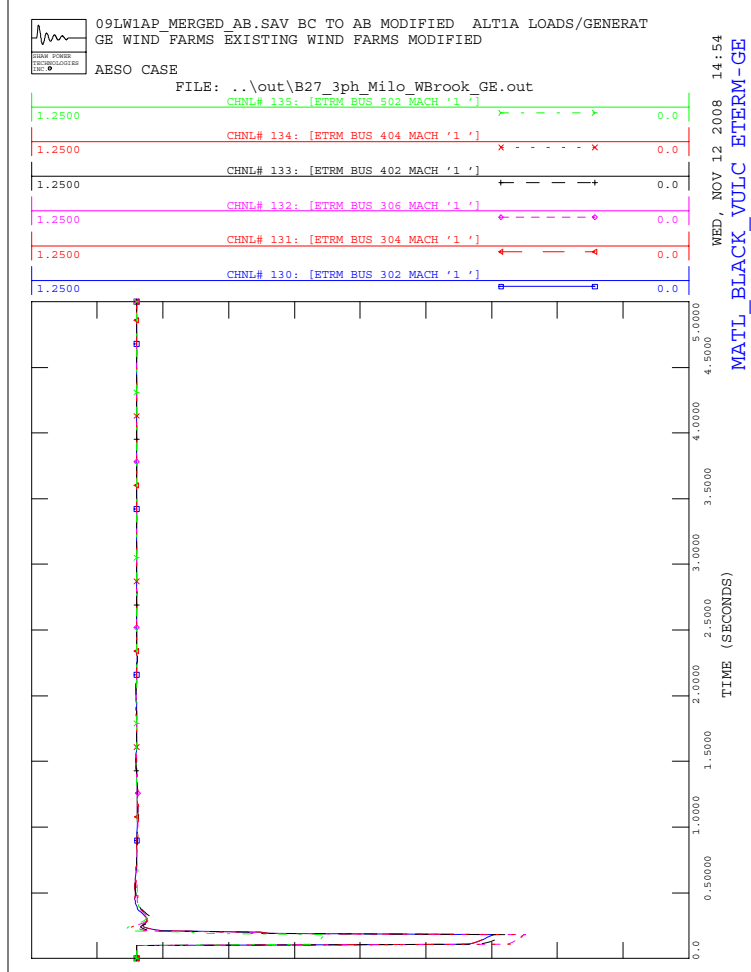
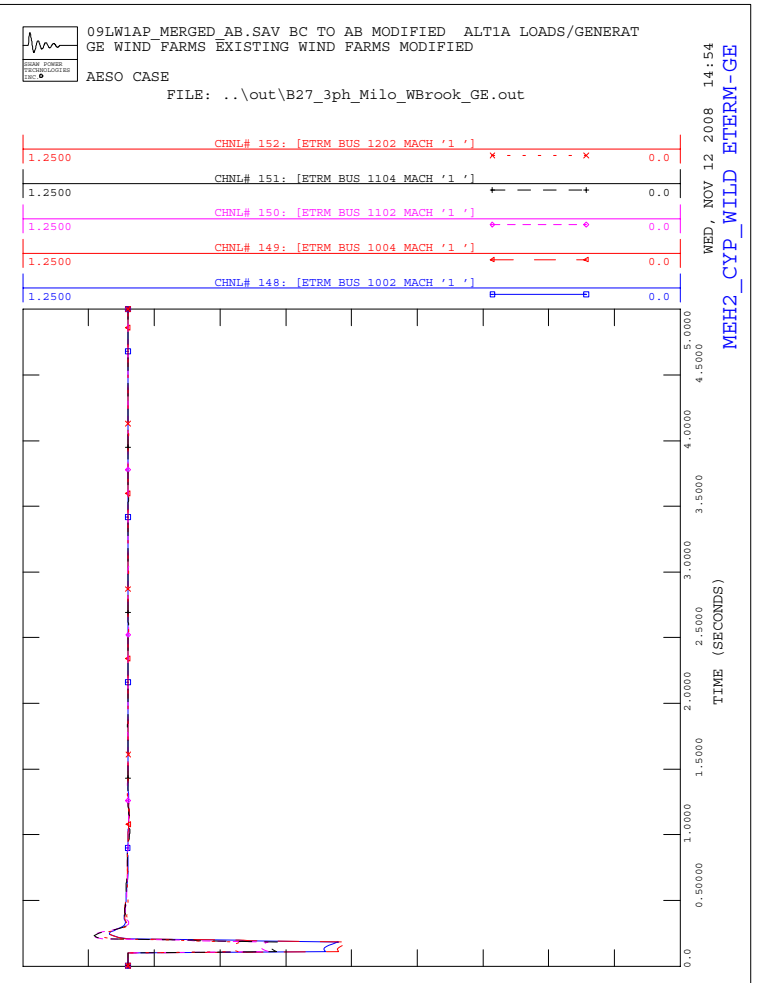
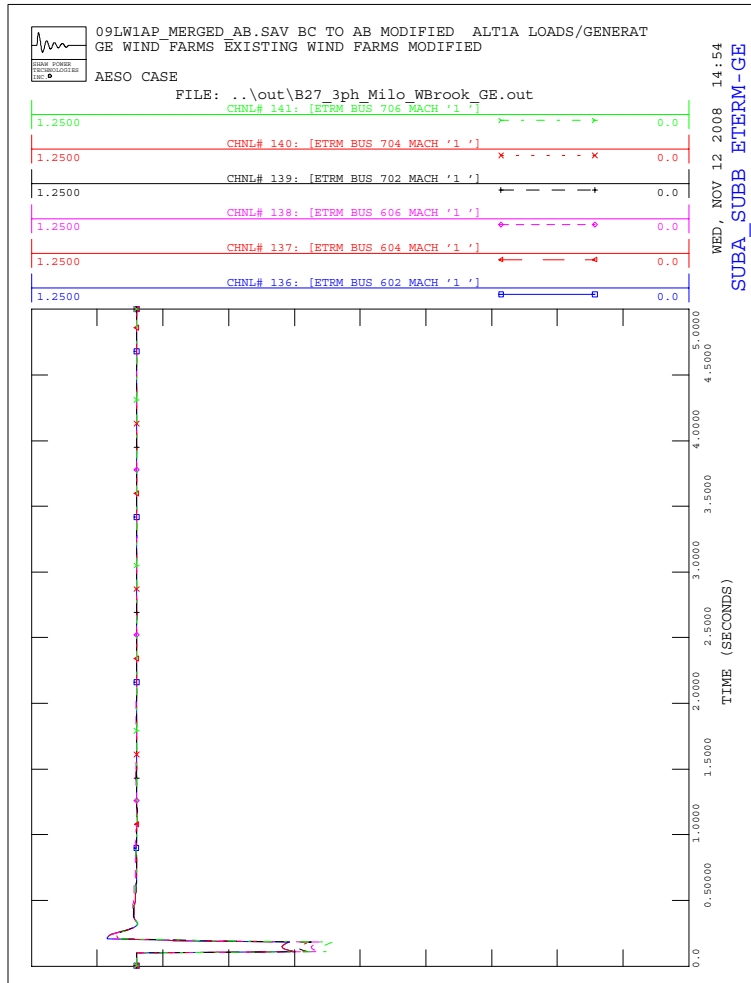


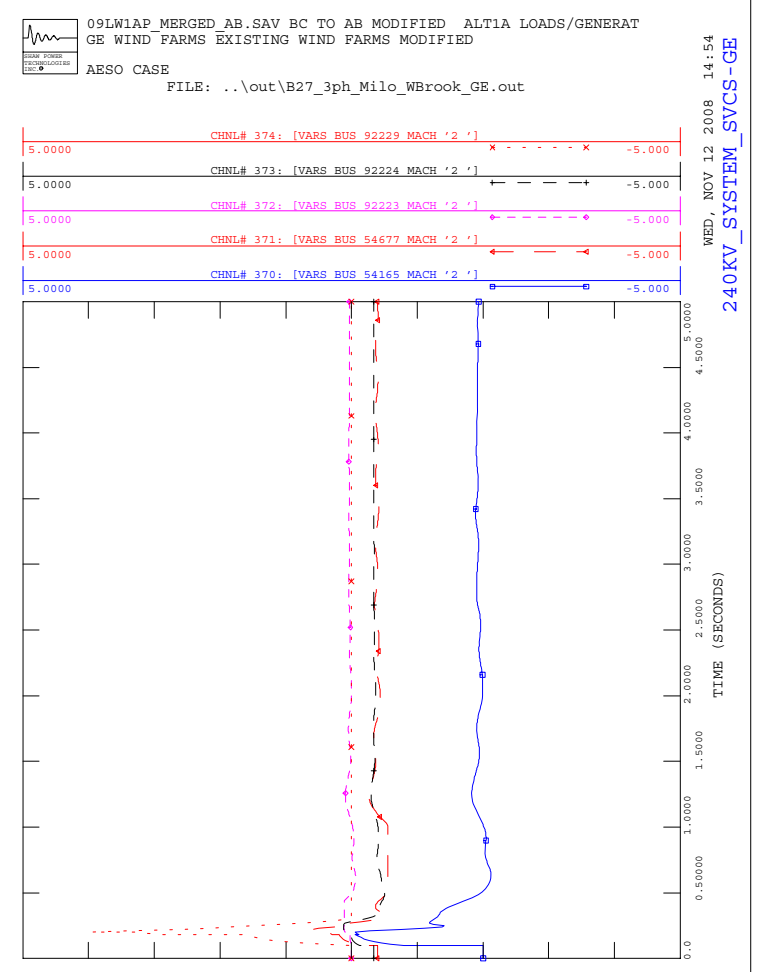
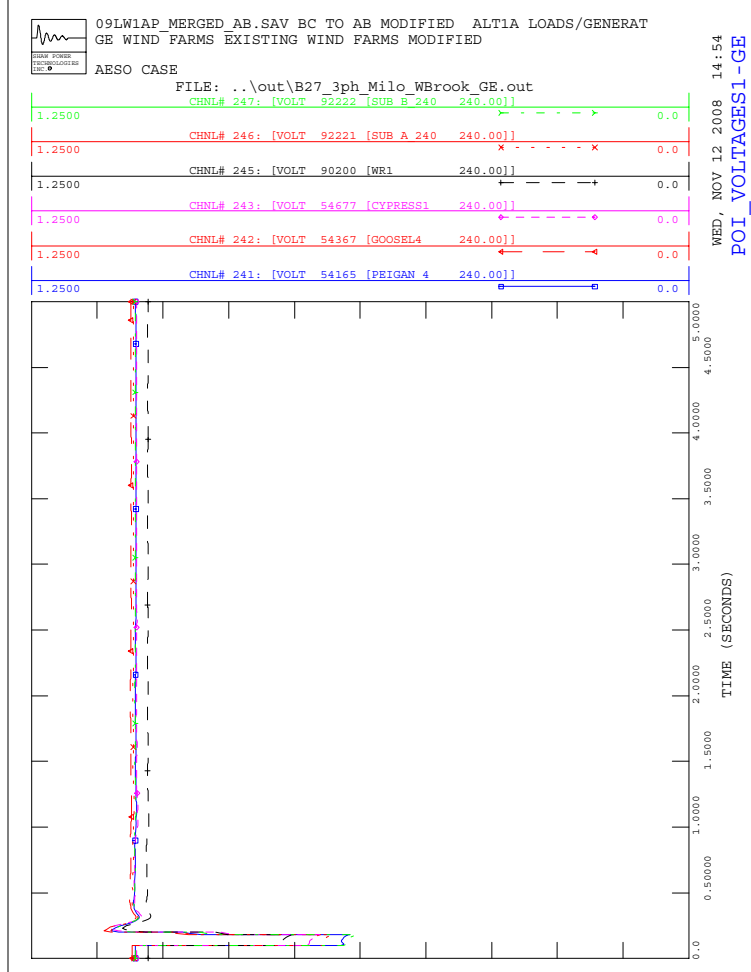
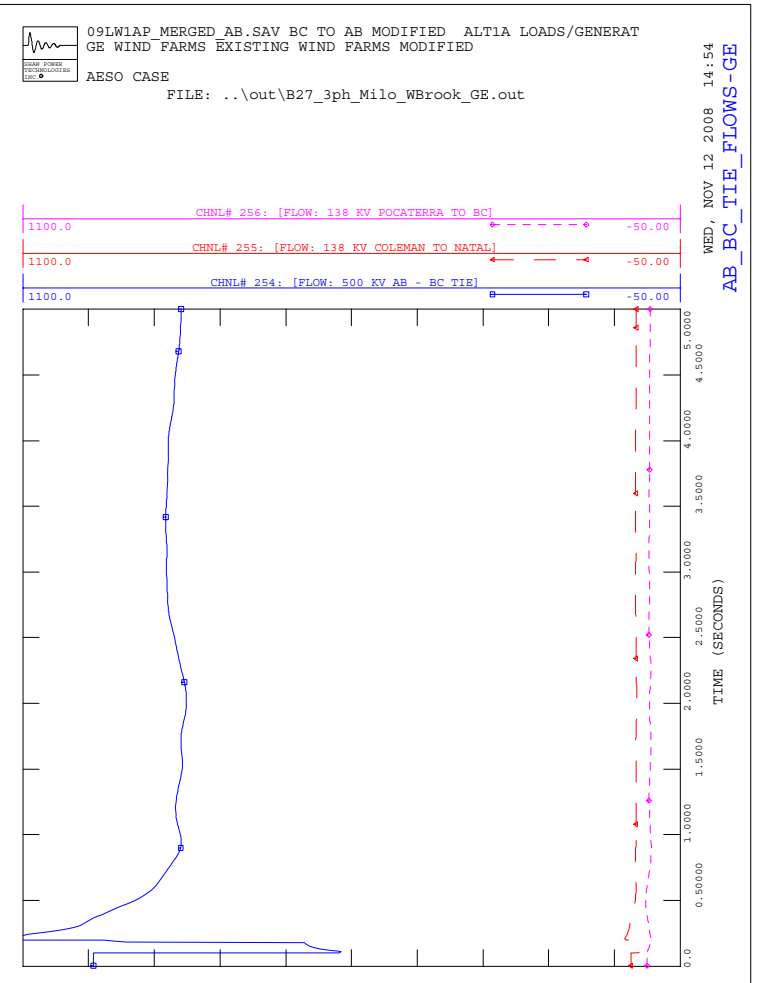
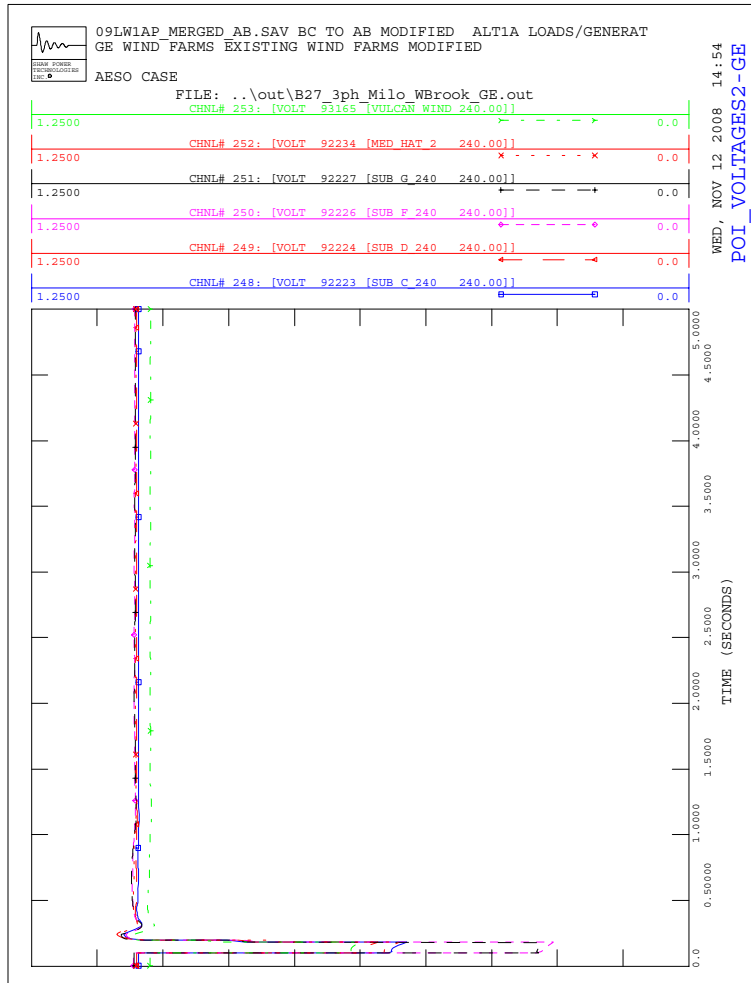












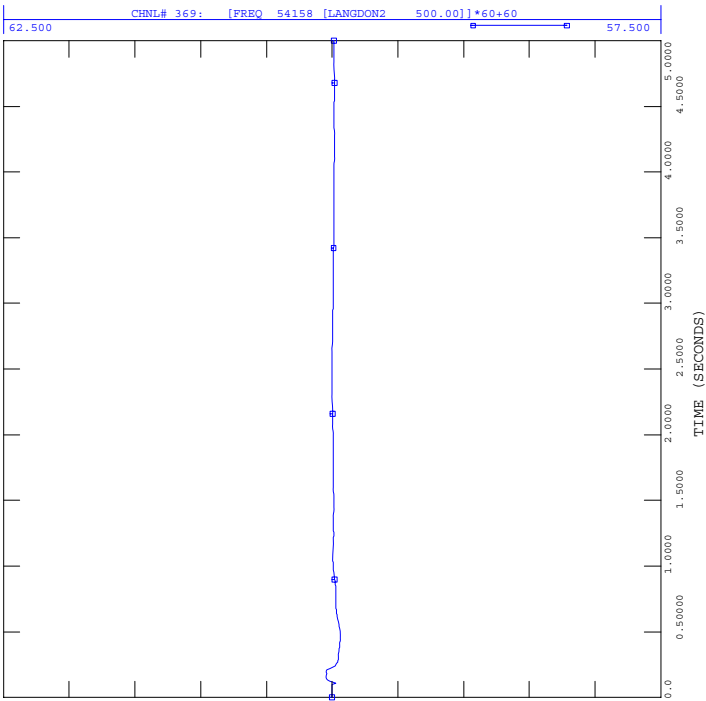


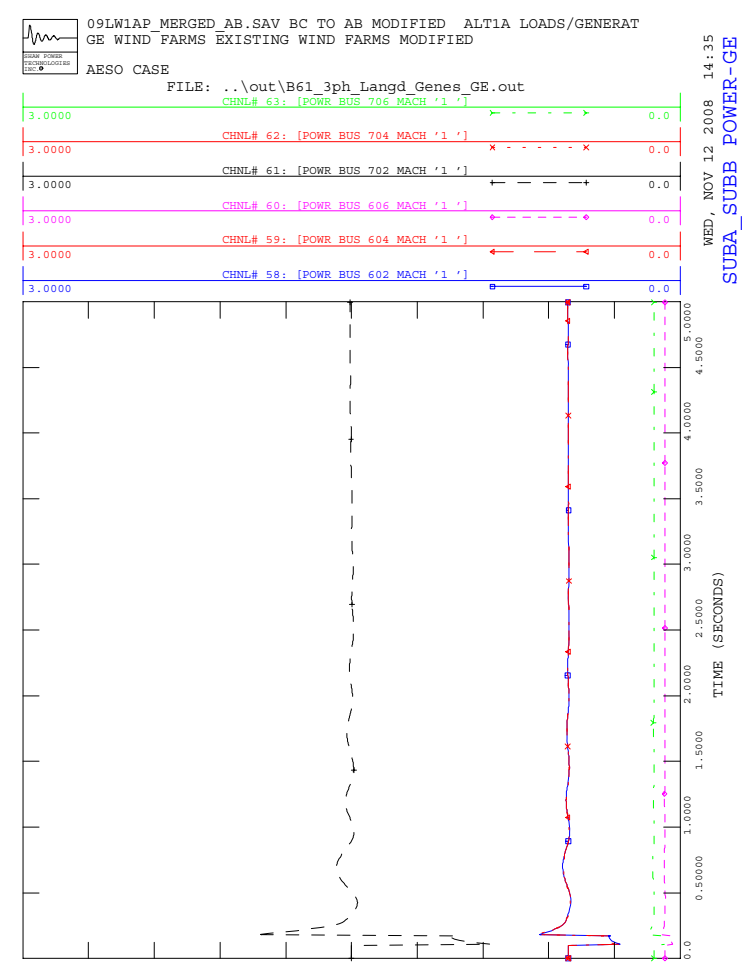
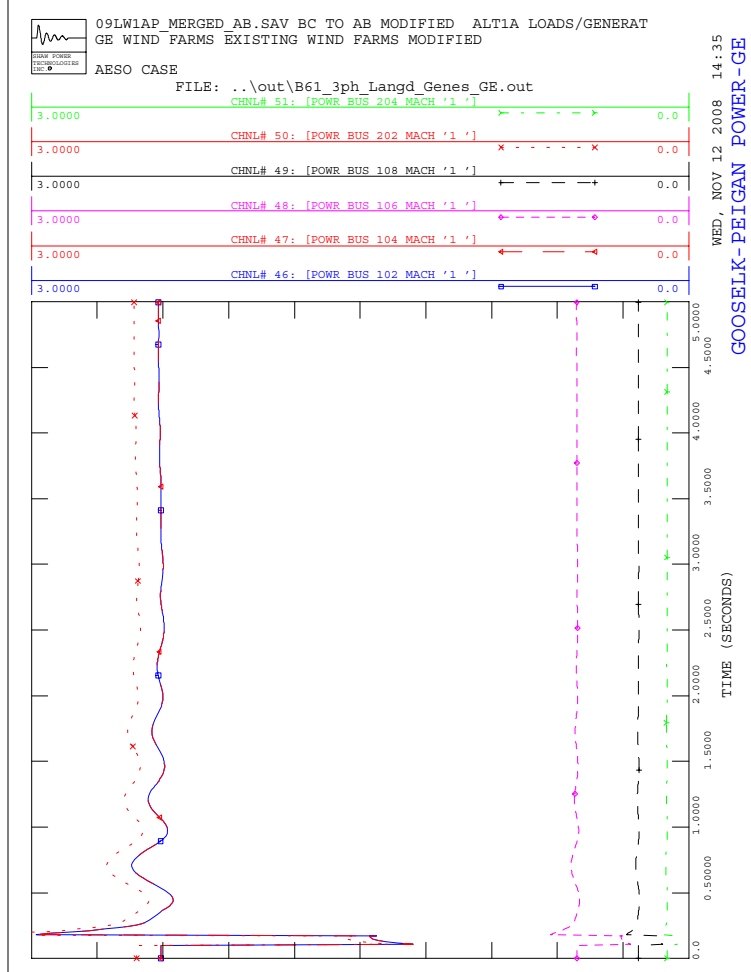
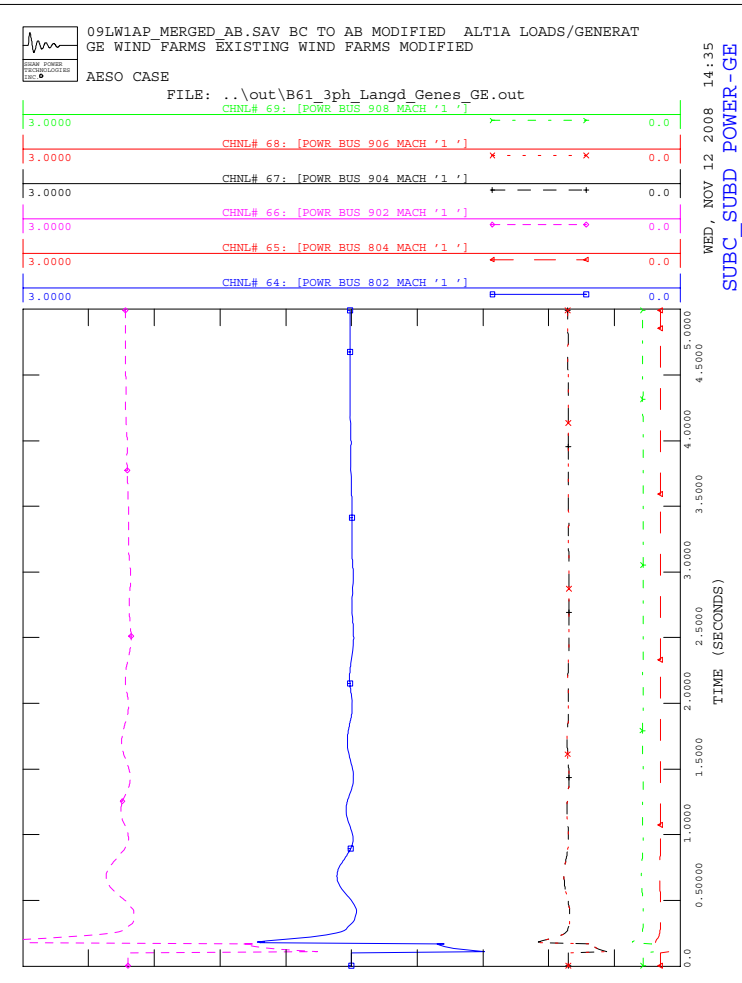
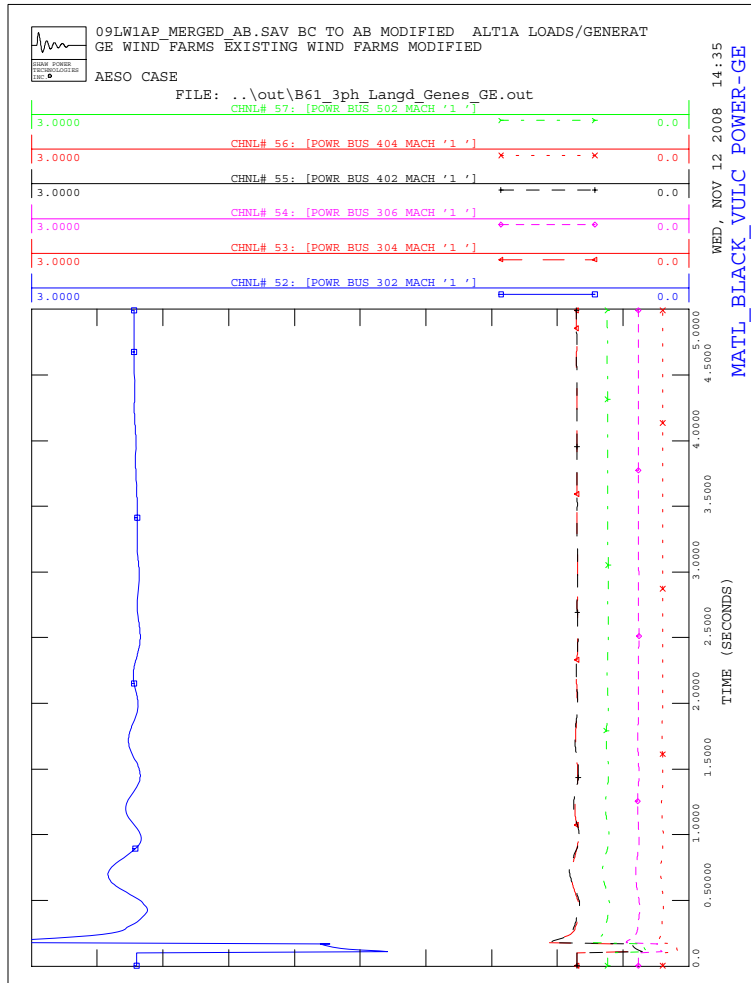
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
GE WIND FARMS EXISTING WIND FARMS MODIFIED

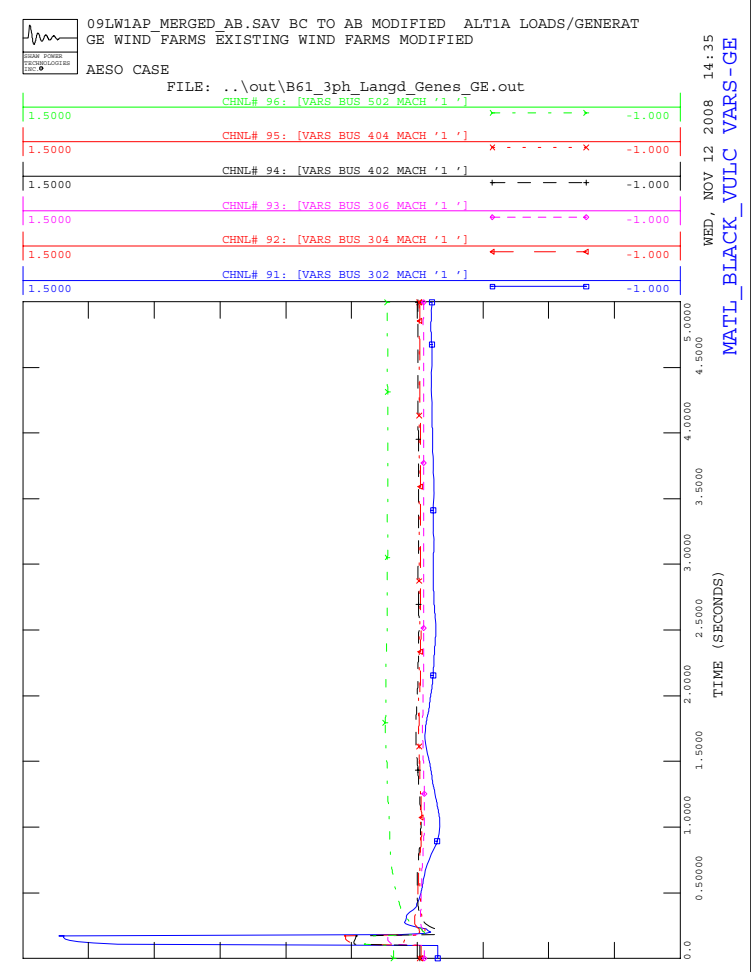
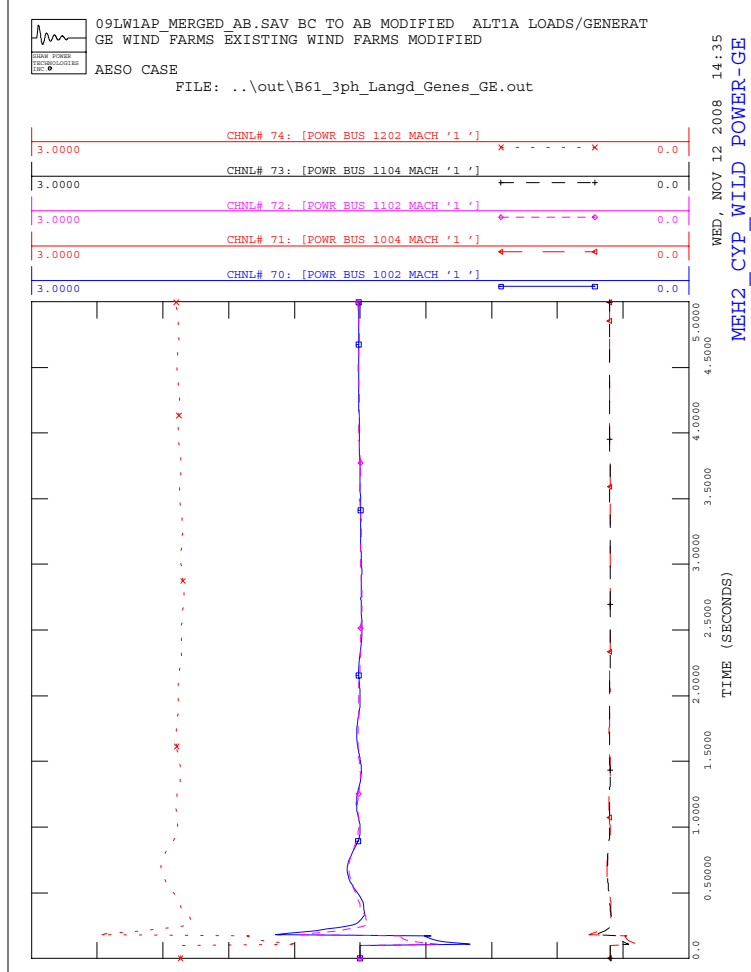
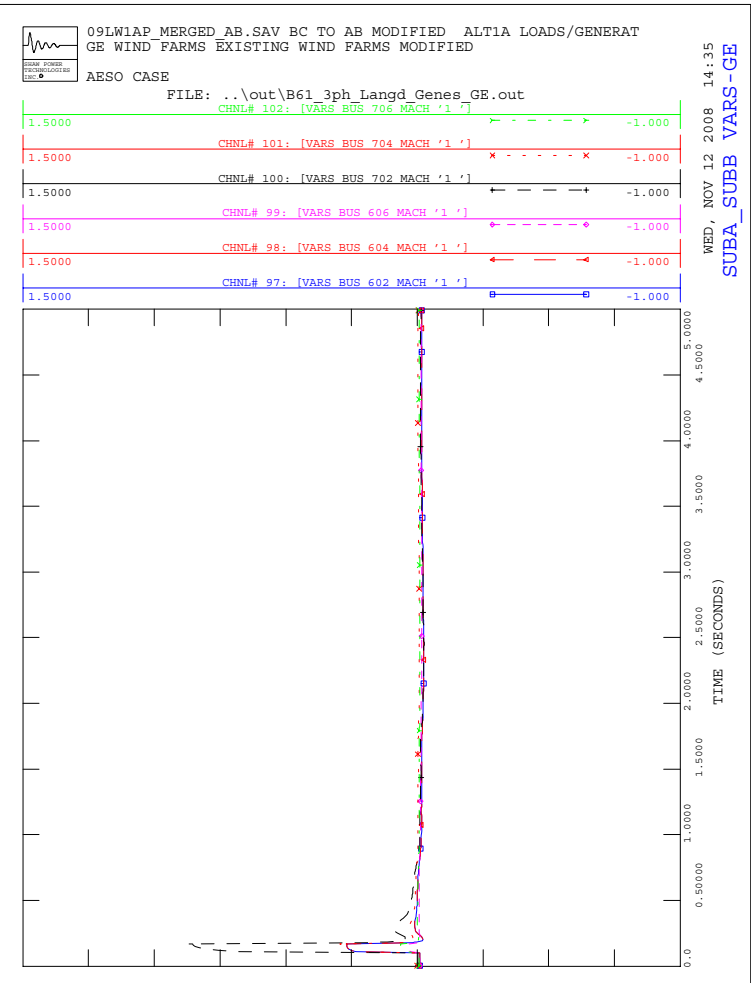
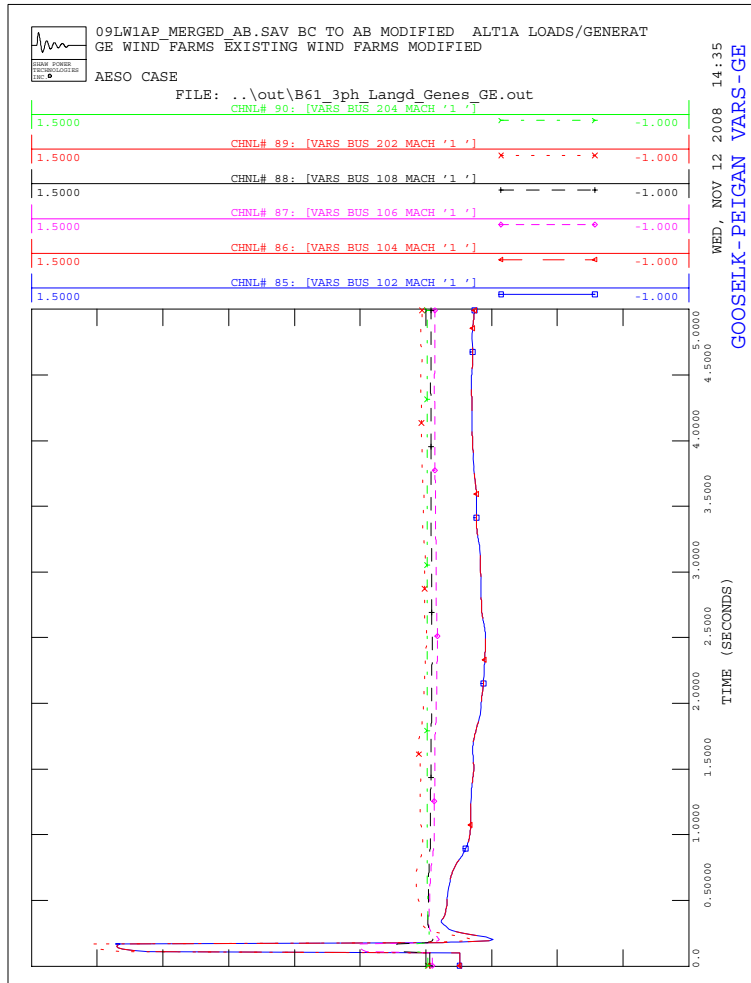
ABSO CASE

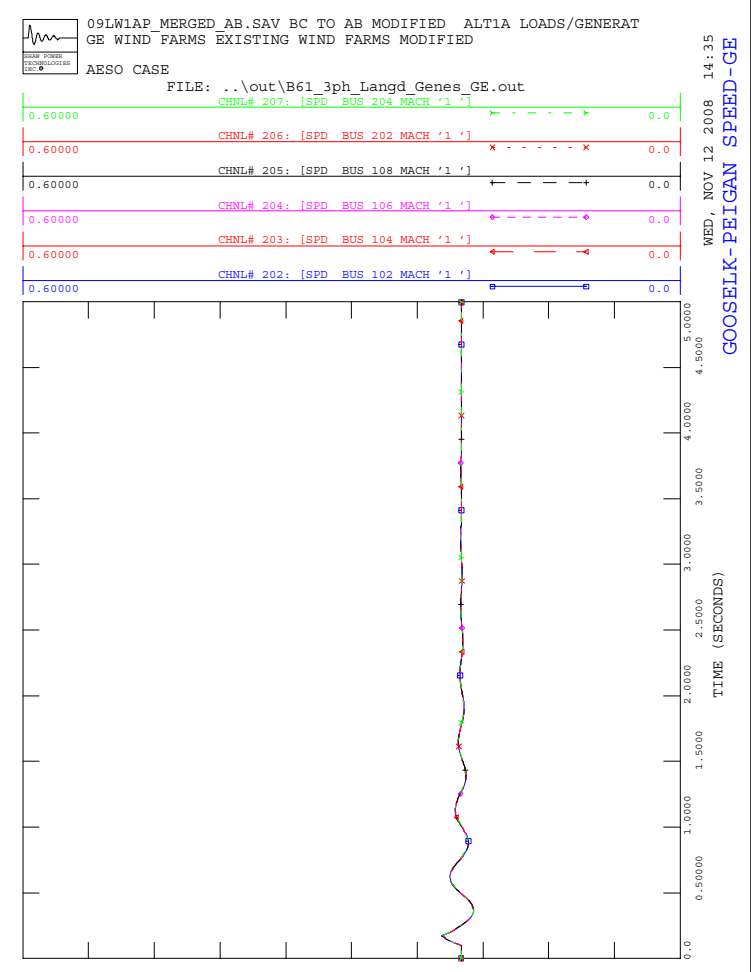
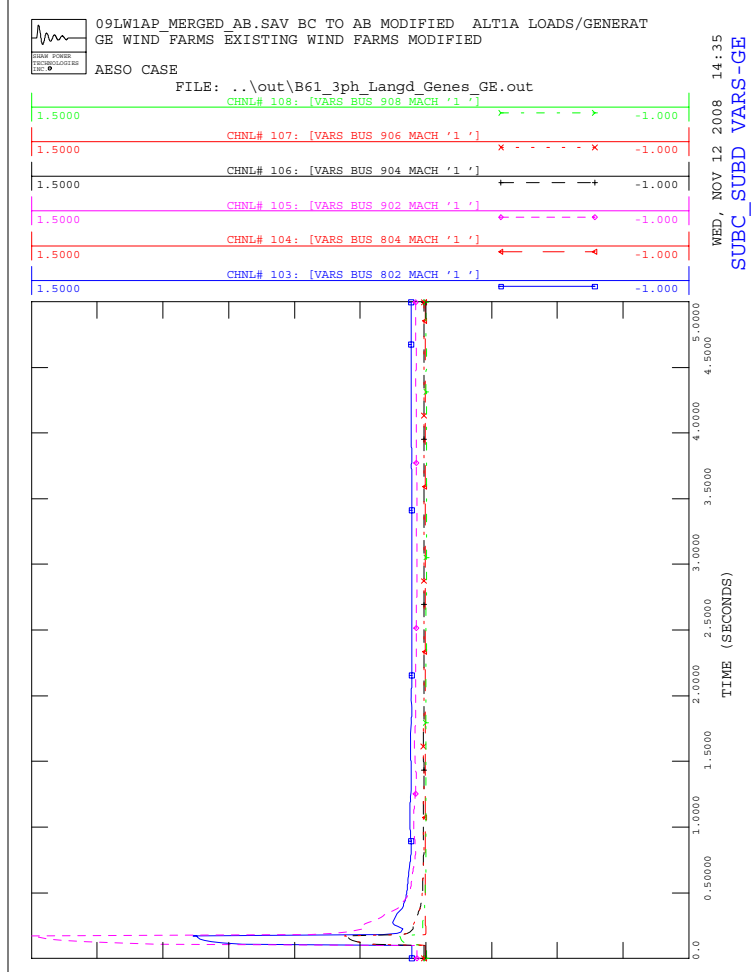
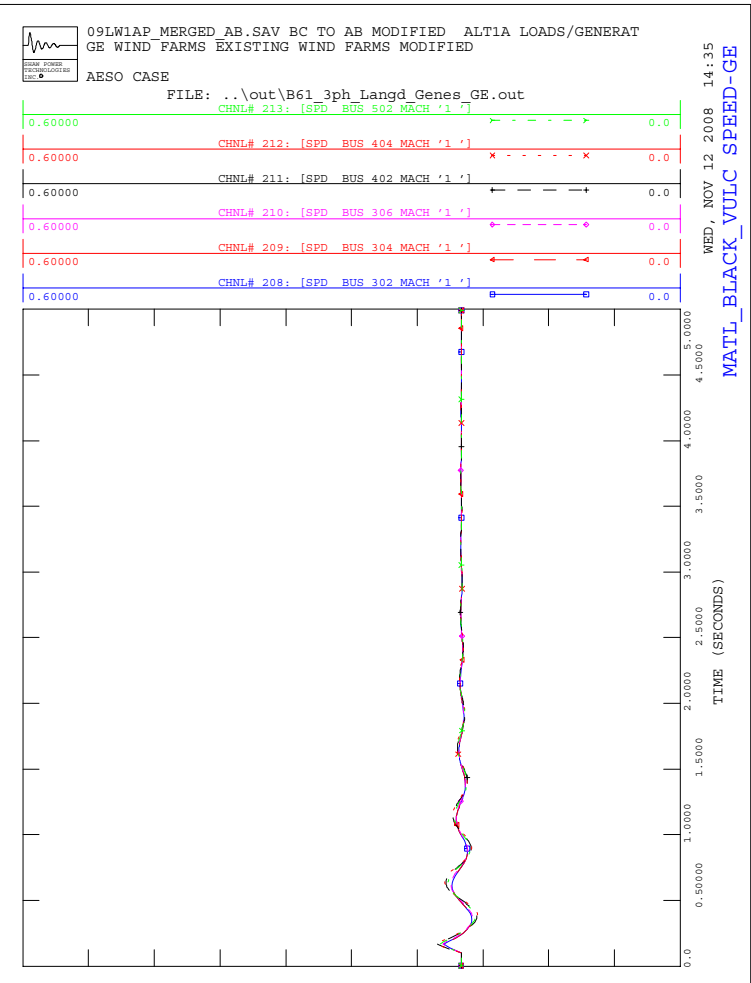
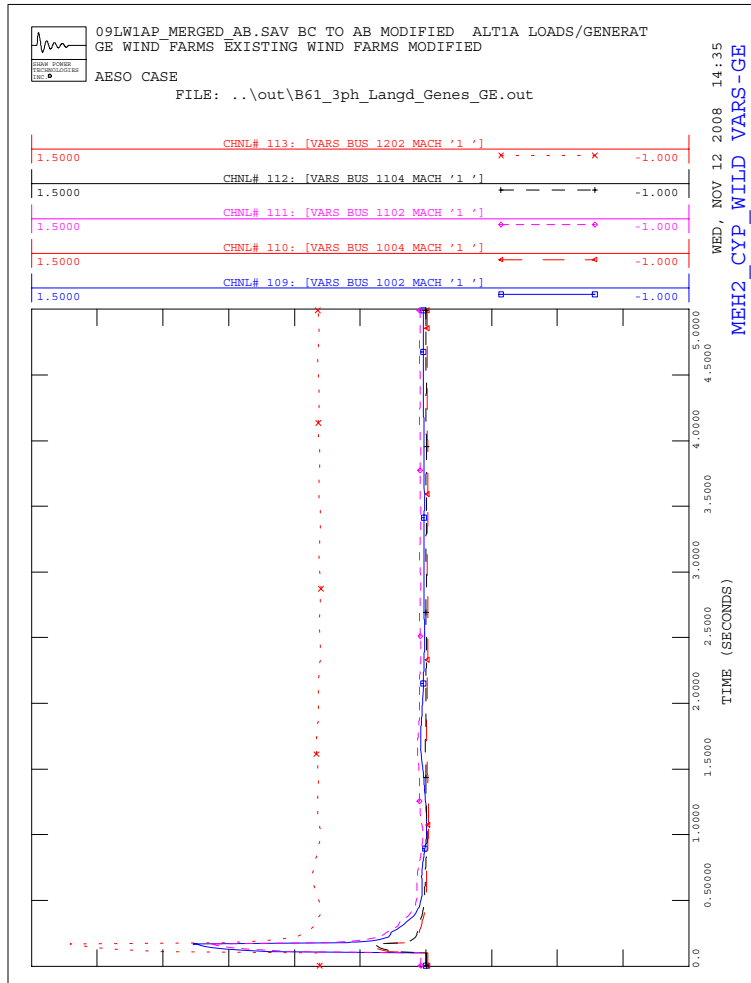
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LANGDON_FRQ-GE



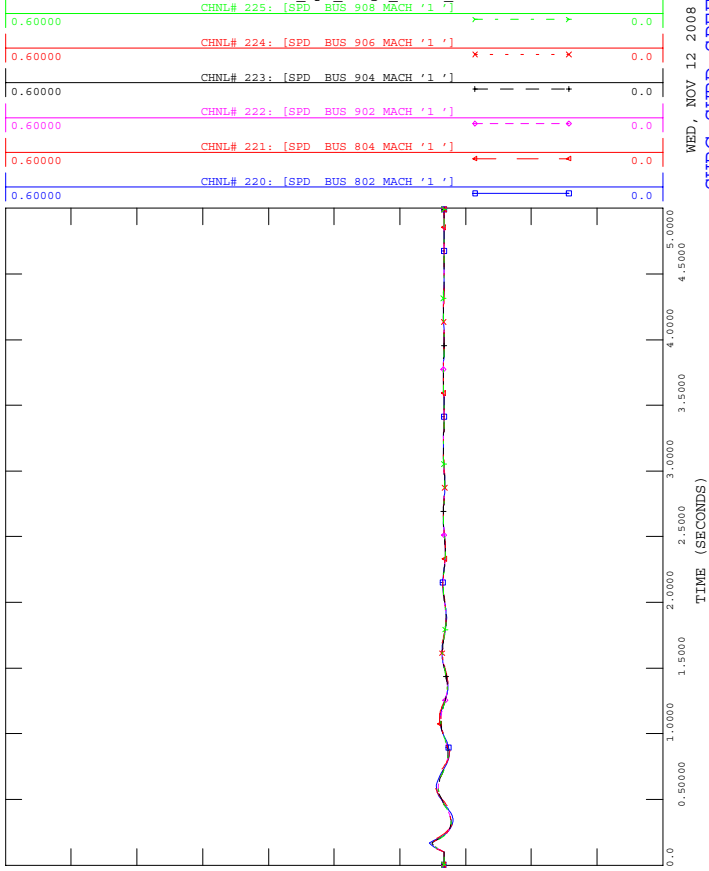






09LW1AP MERGED AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

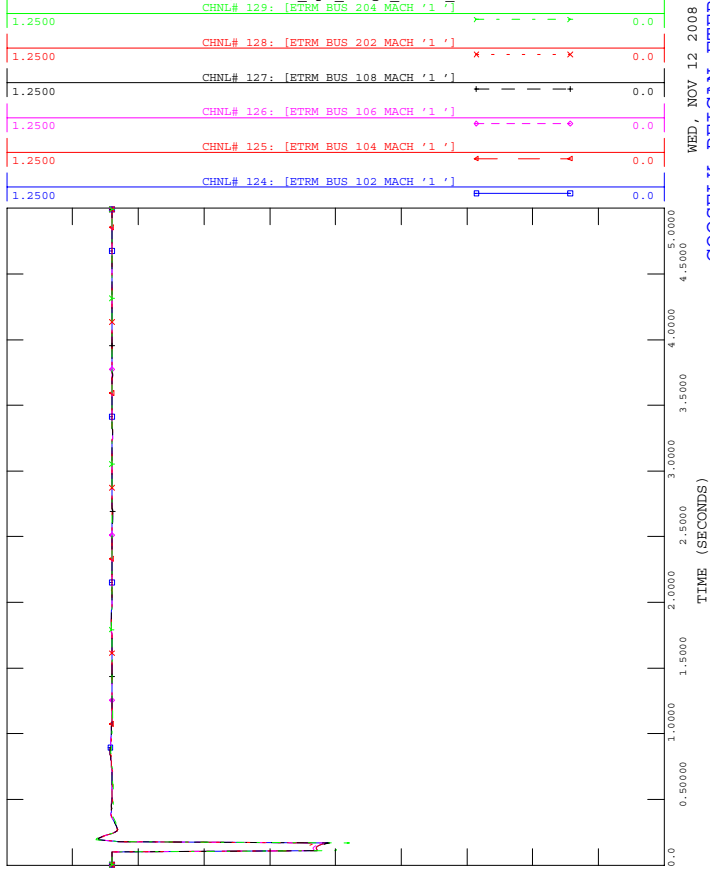
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WED, NOV 12 2008 14:35
SUBC_SUBD SPEED-GE

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GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

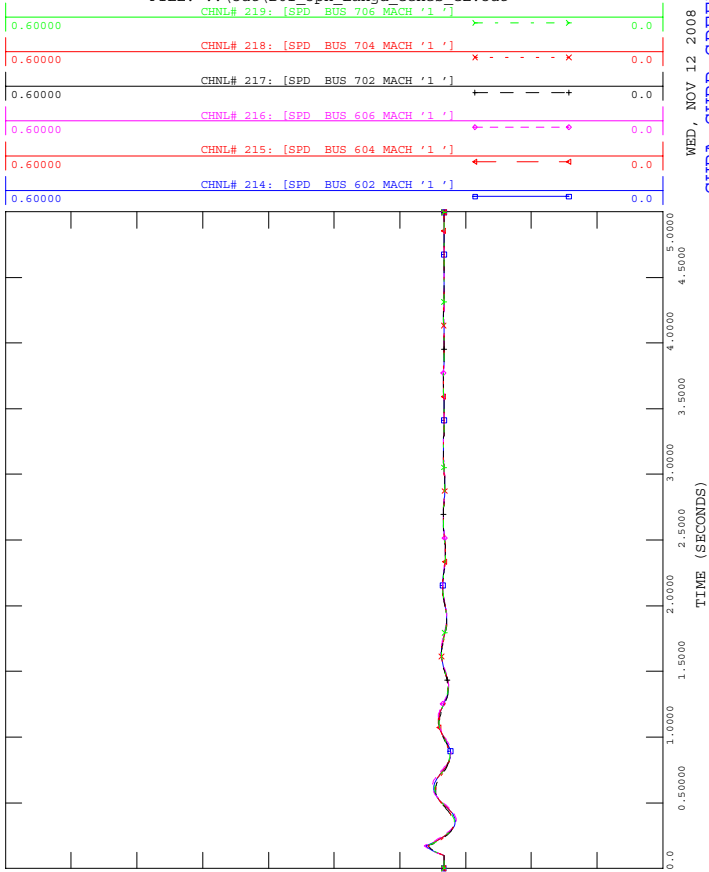
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ETERM-GE

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GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

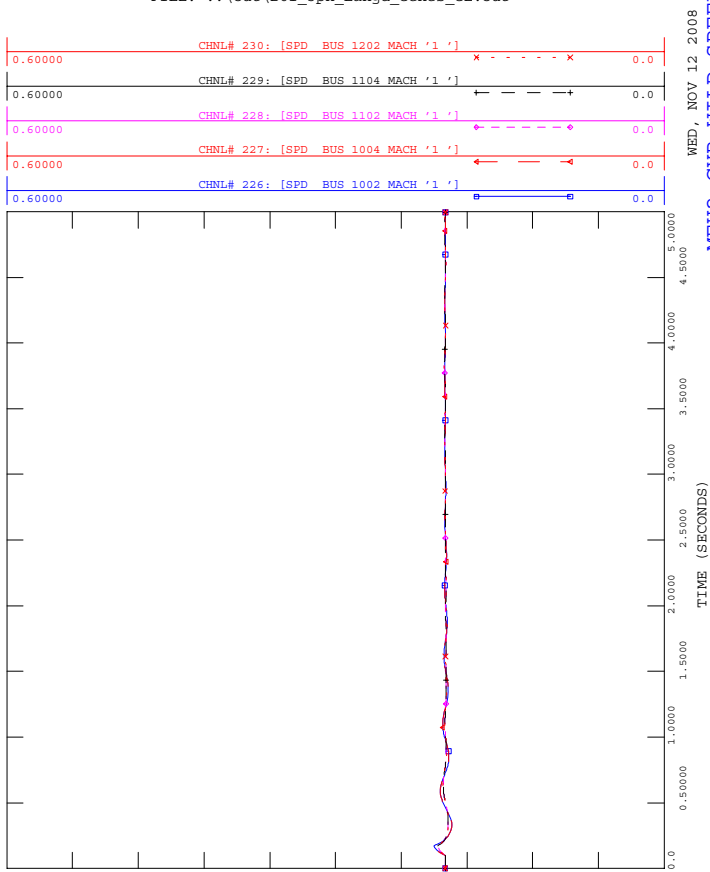
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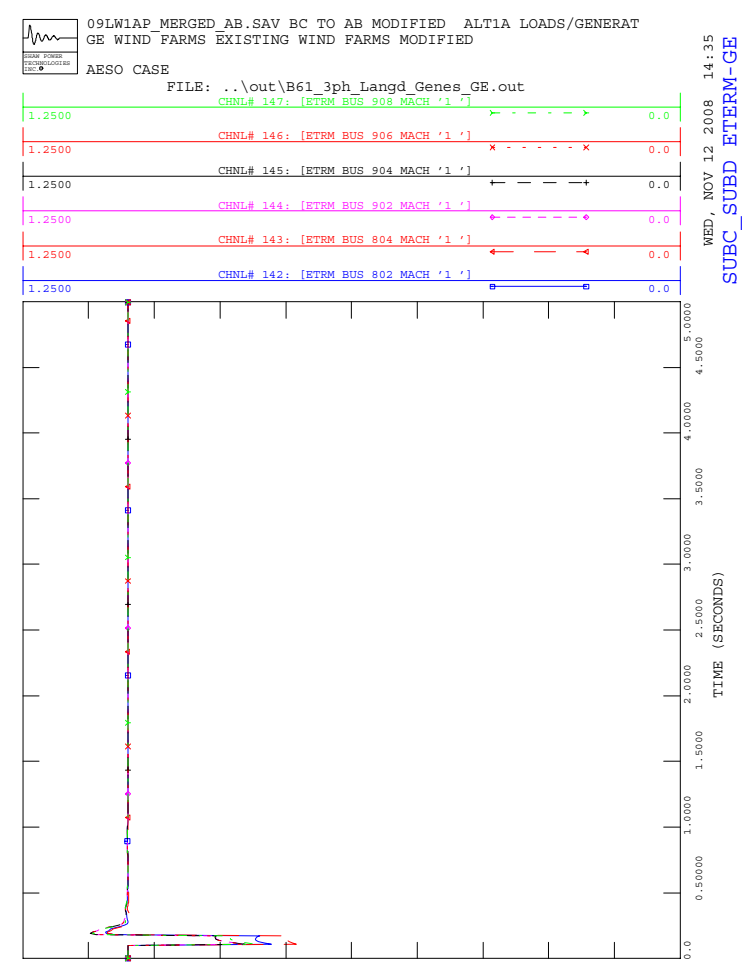
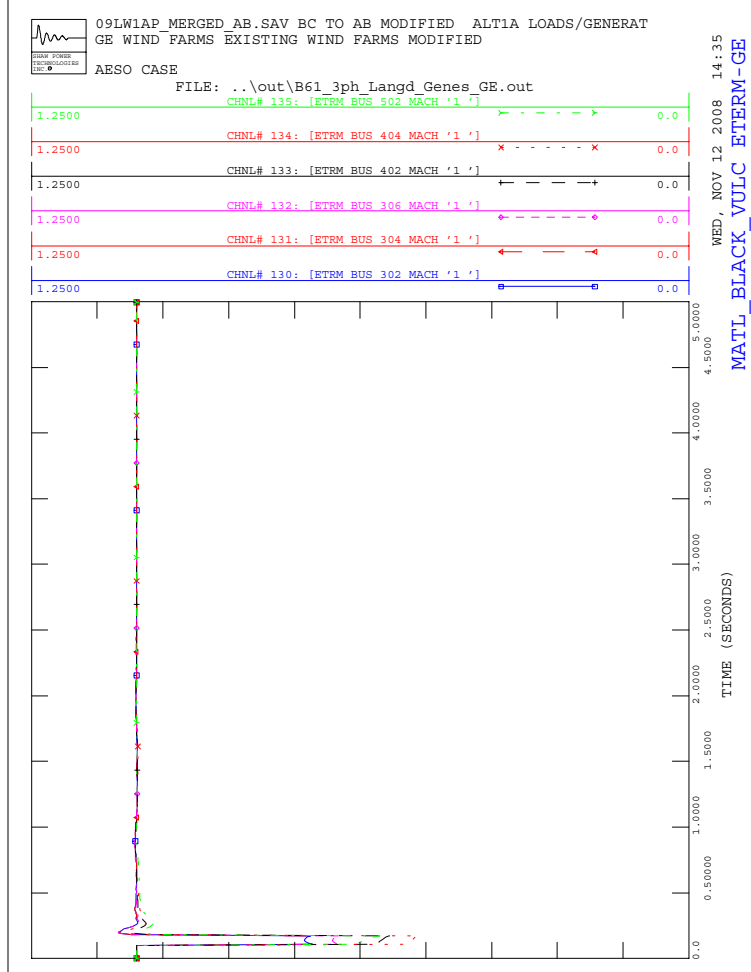
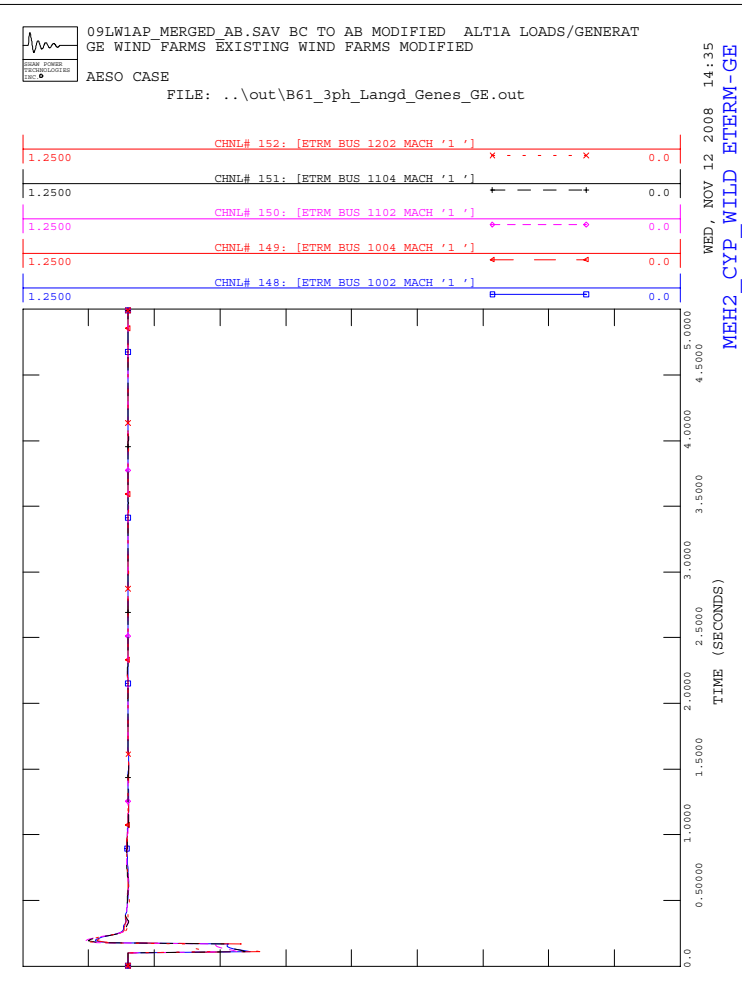
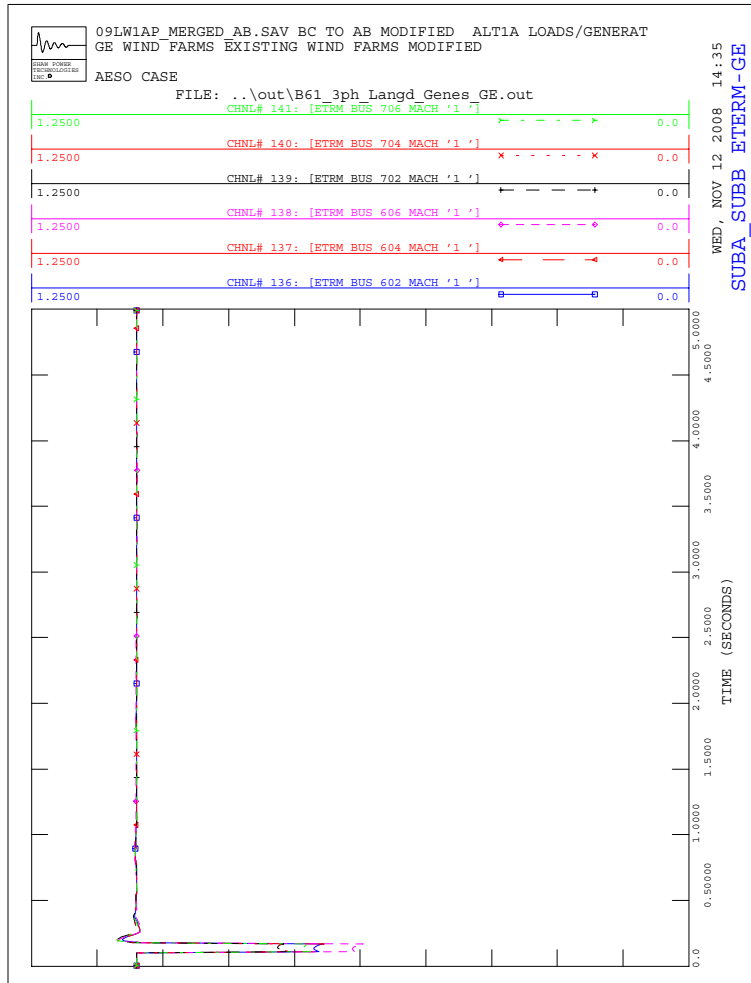
WED, NOV 12 2008 14:35
SUBA_SUBD SPEED-GE

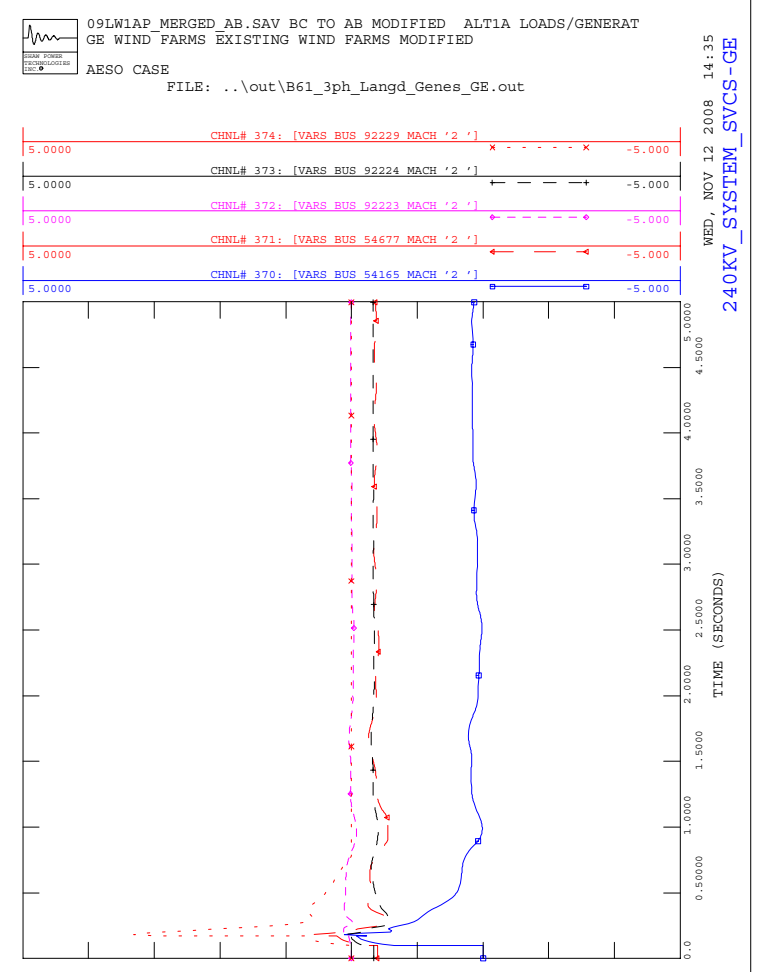
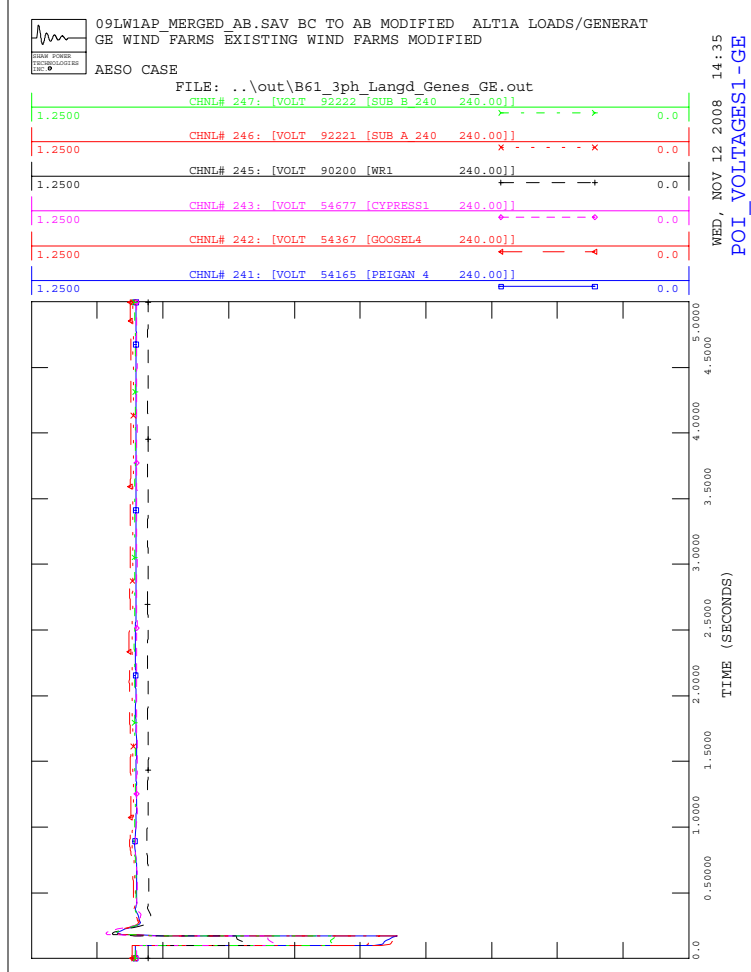
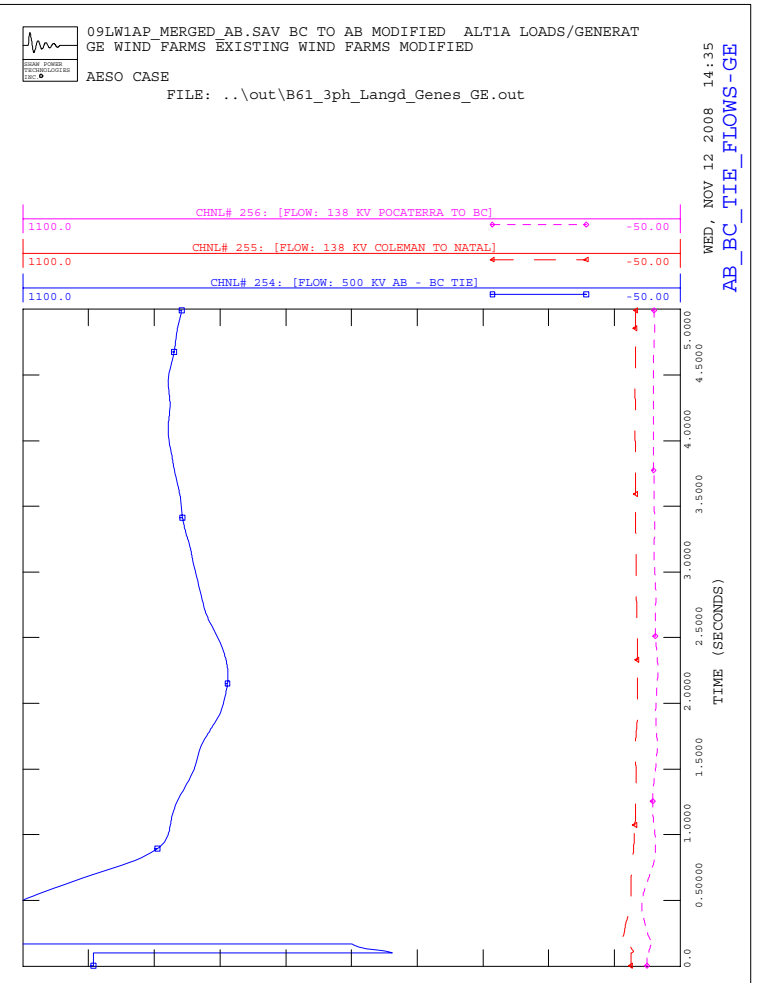
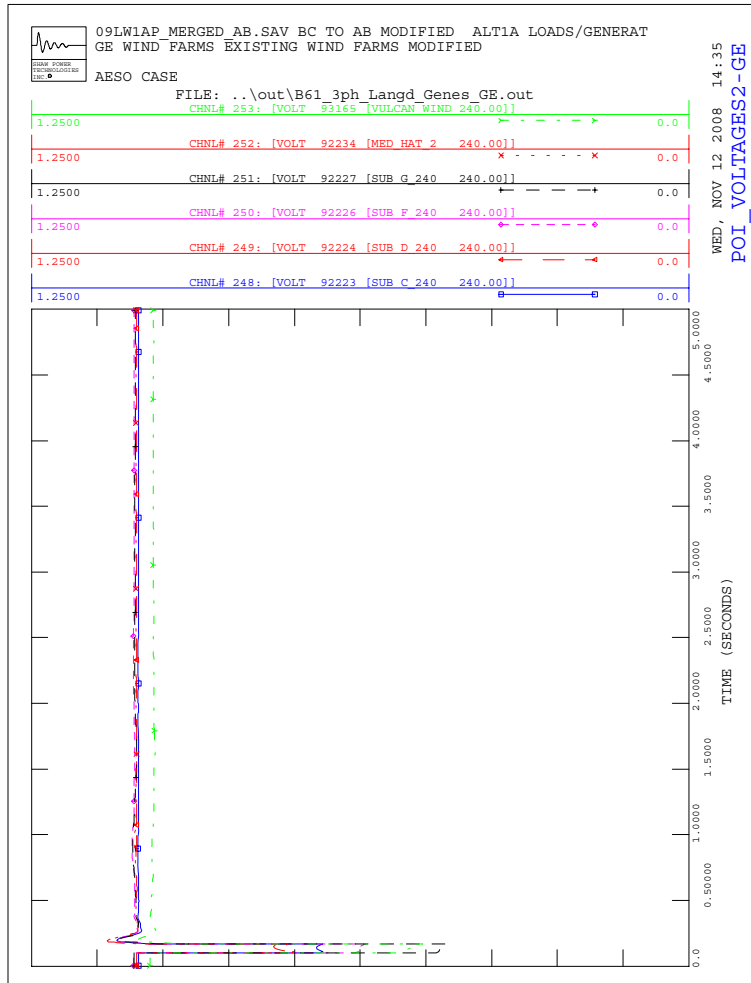
09LW1AP MERGED AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\B61_3ph_Langd_Genes_GE.out



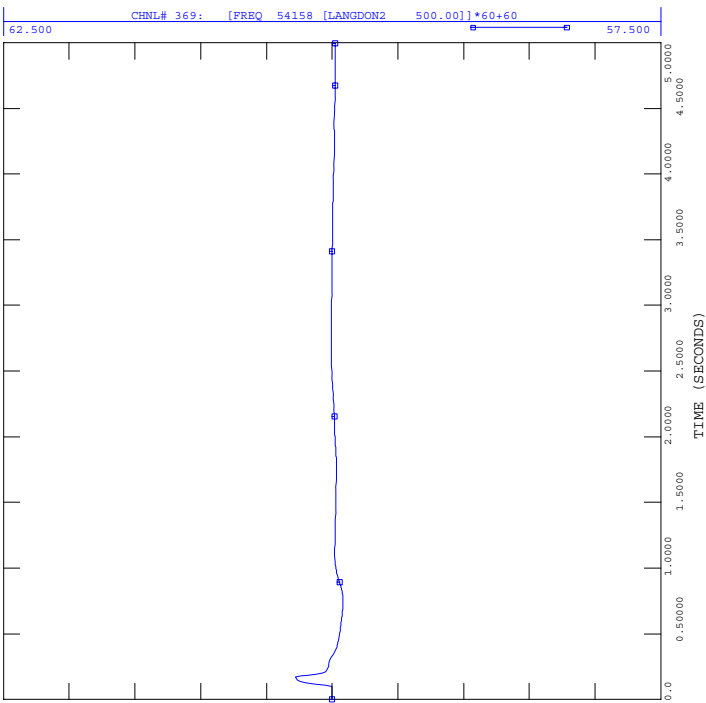
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MEH2_CYP_WILD SPEED-GE

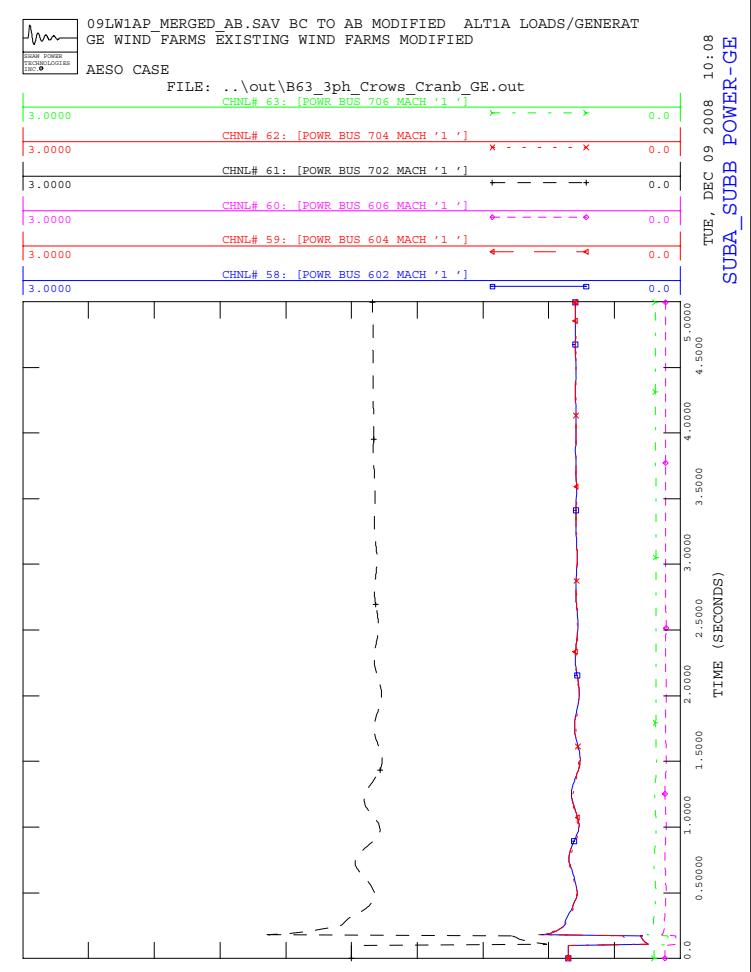
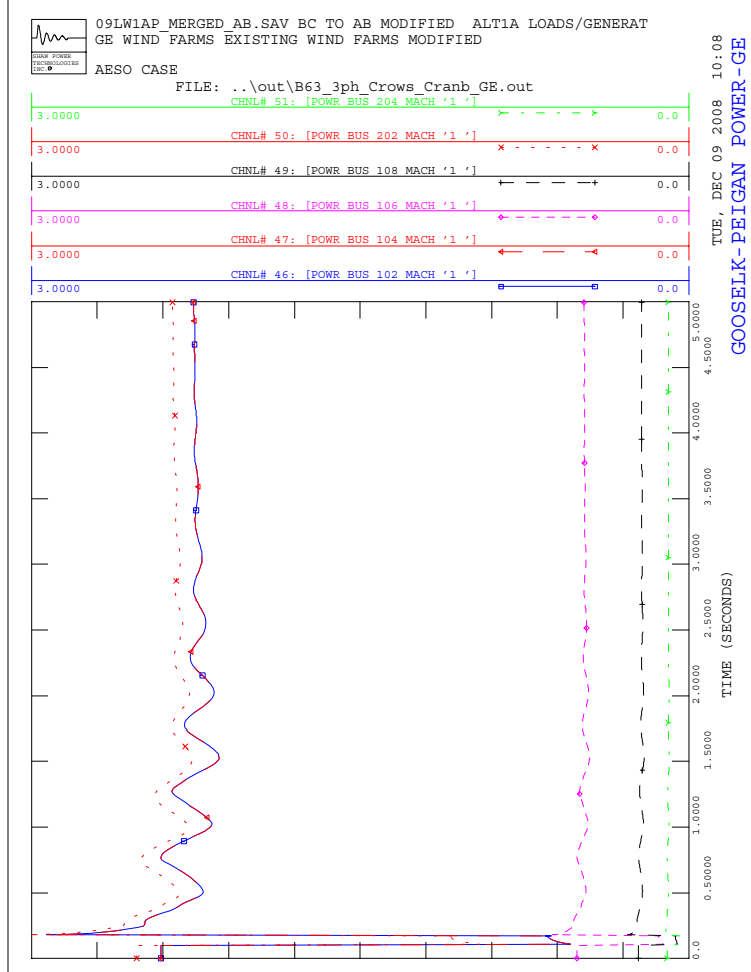
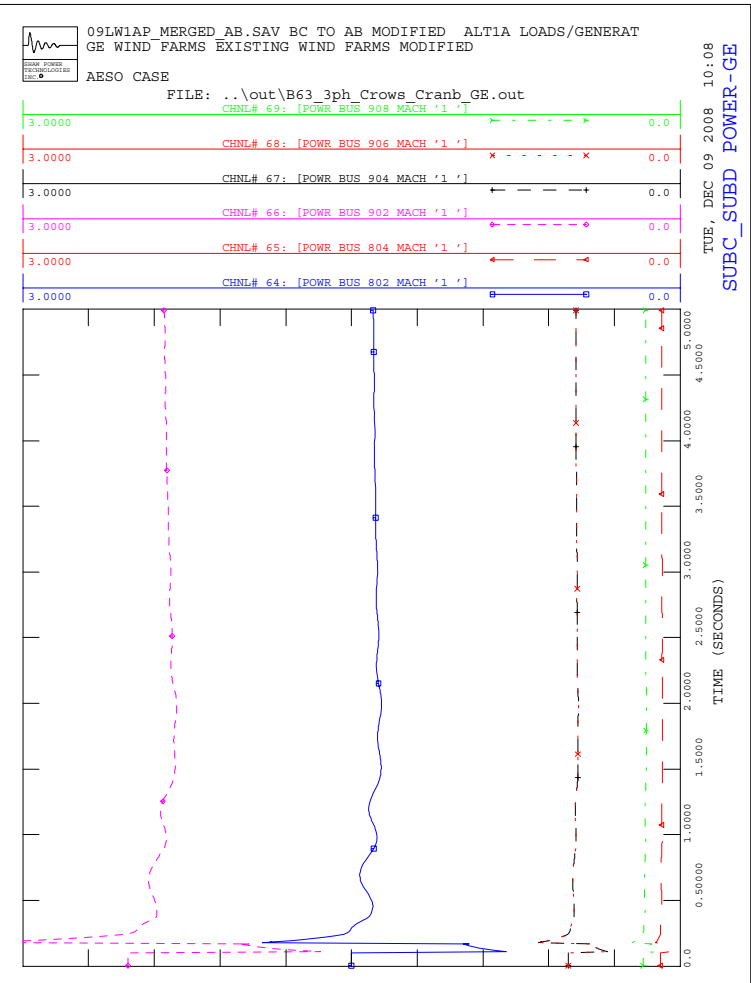
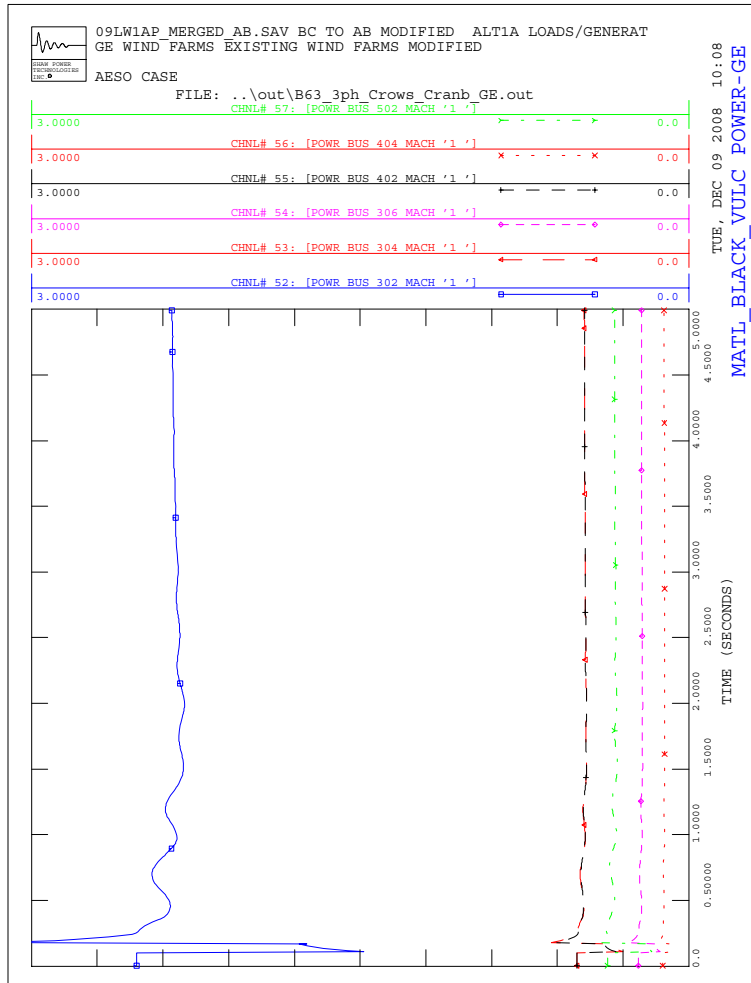


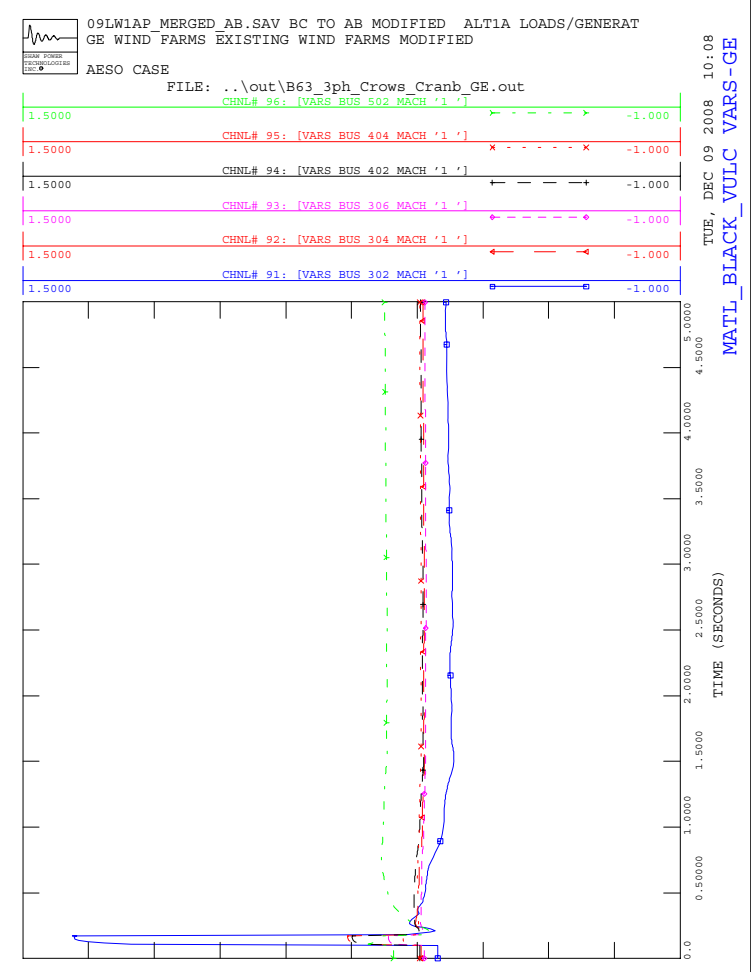
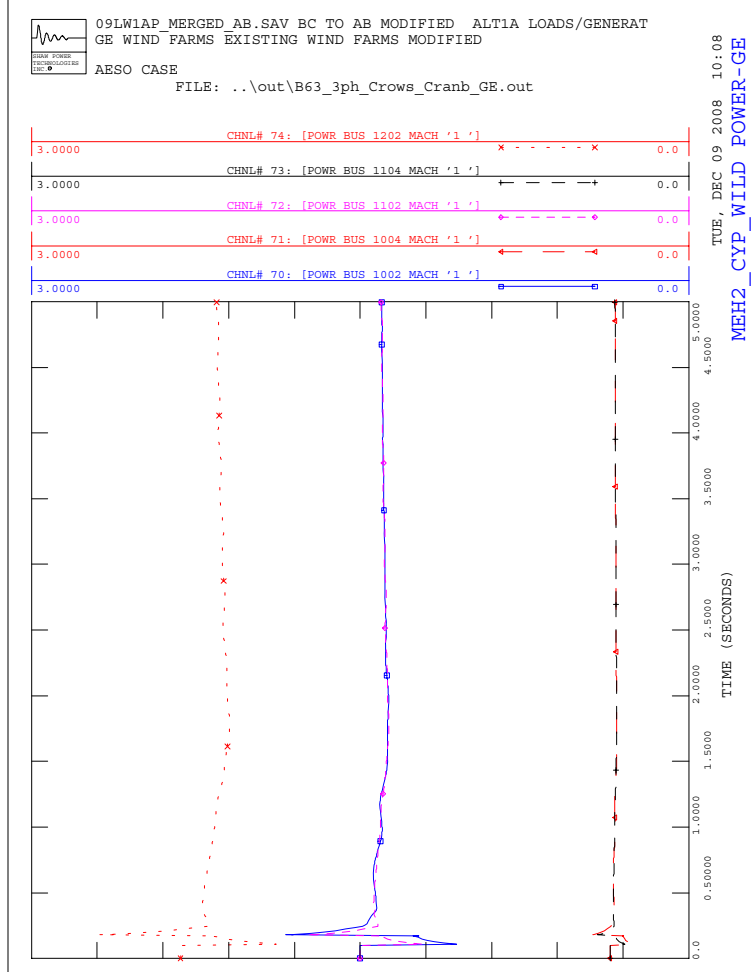
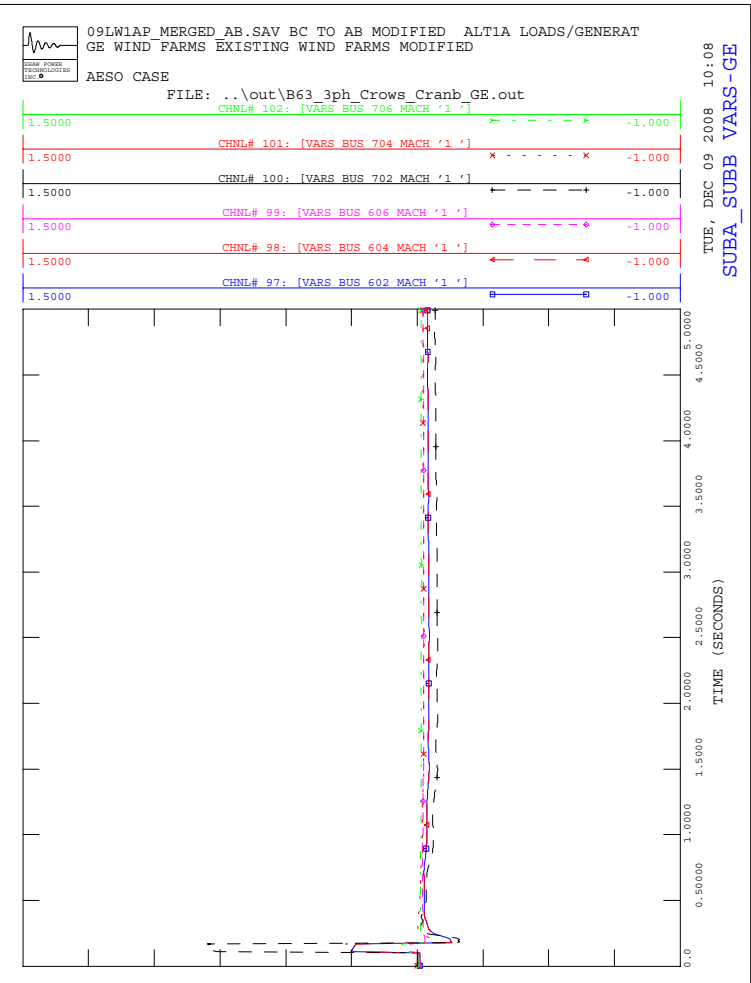
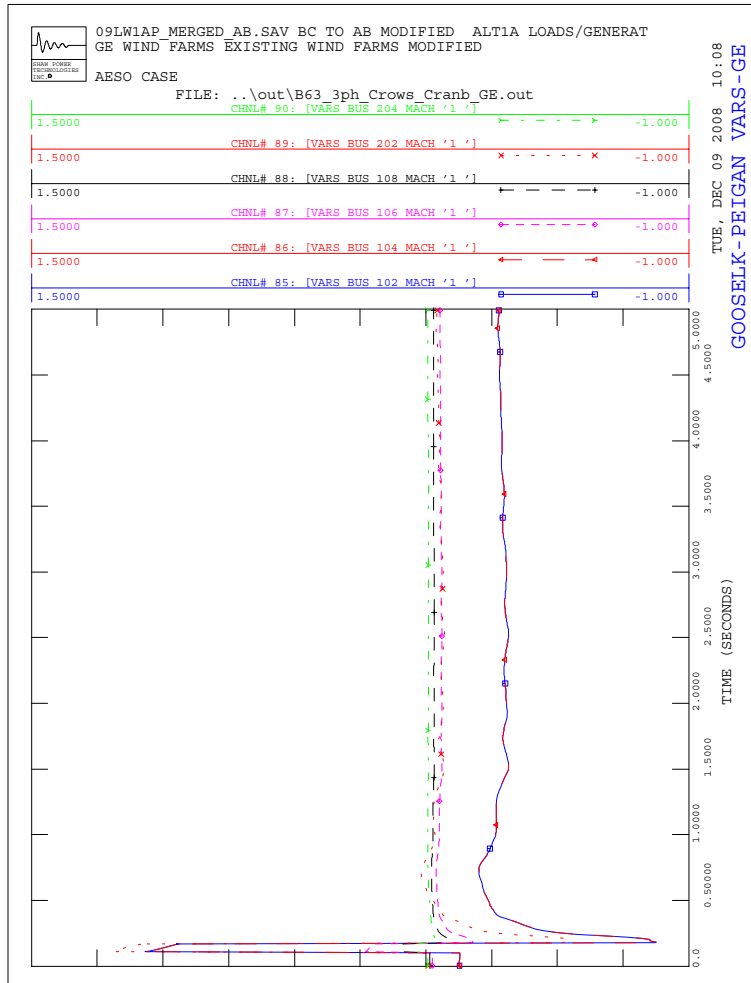


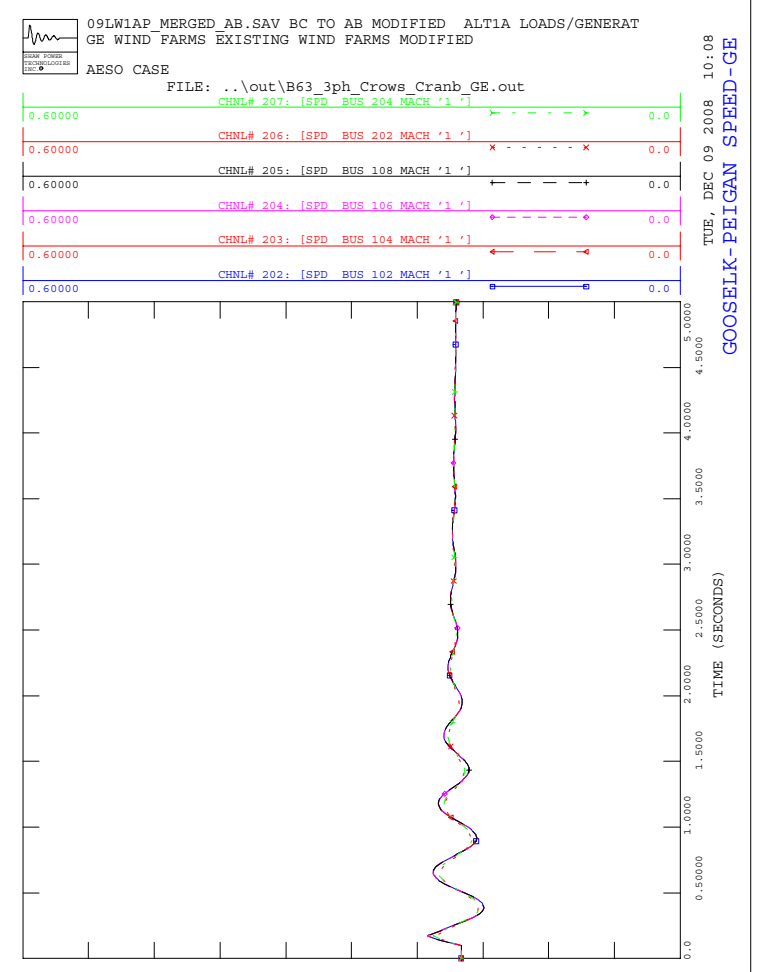
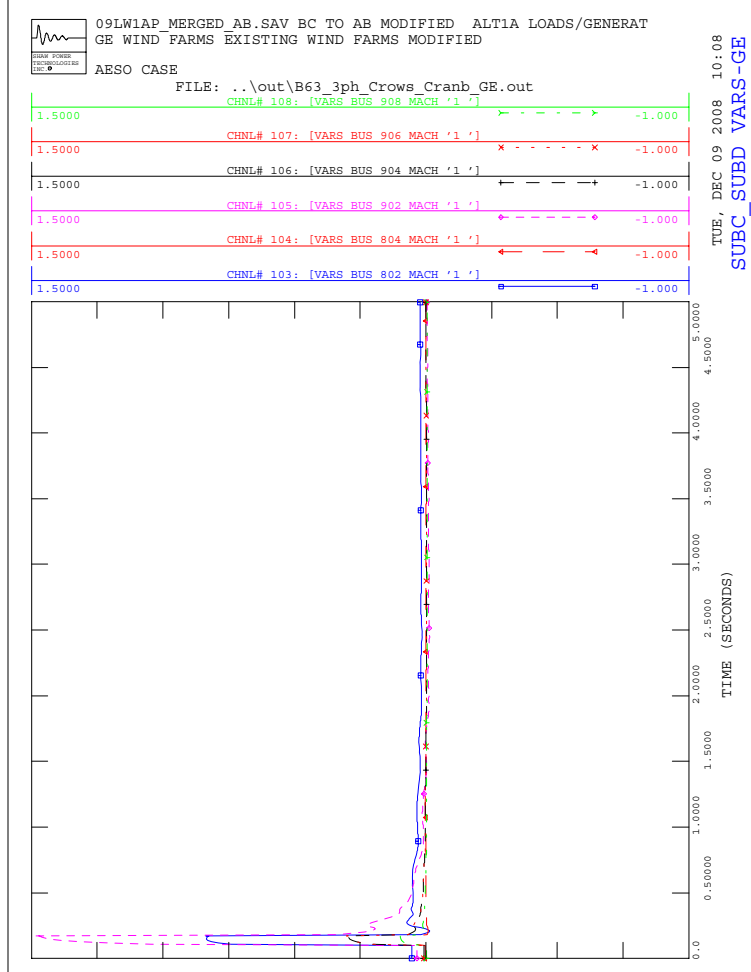
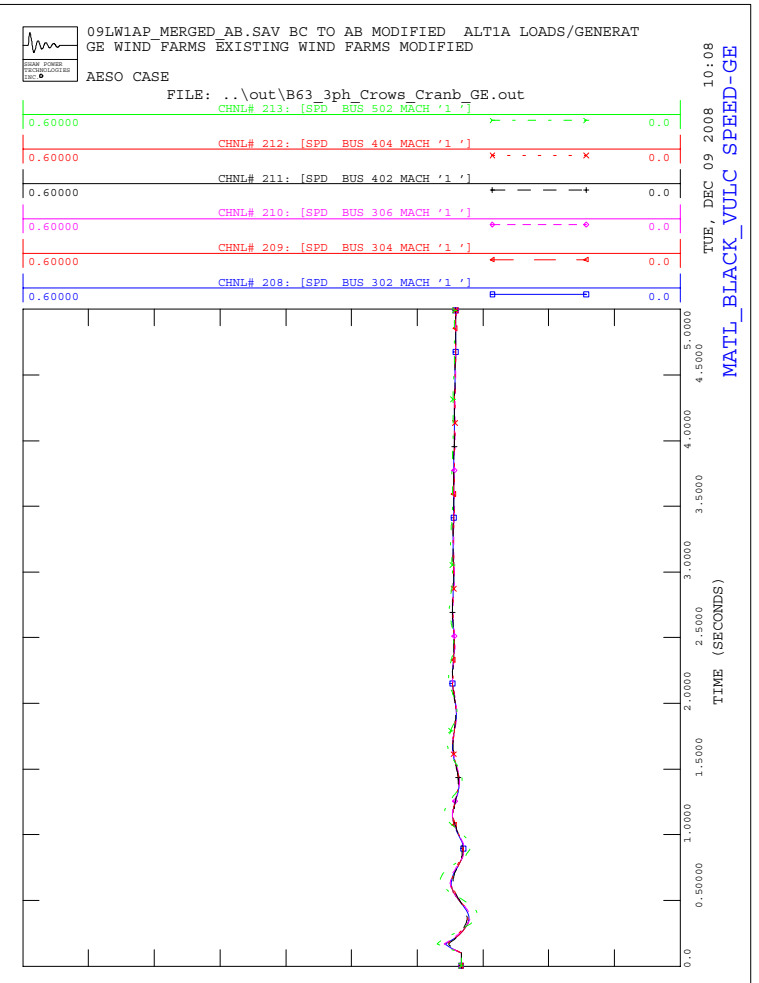
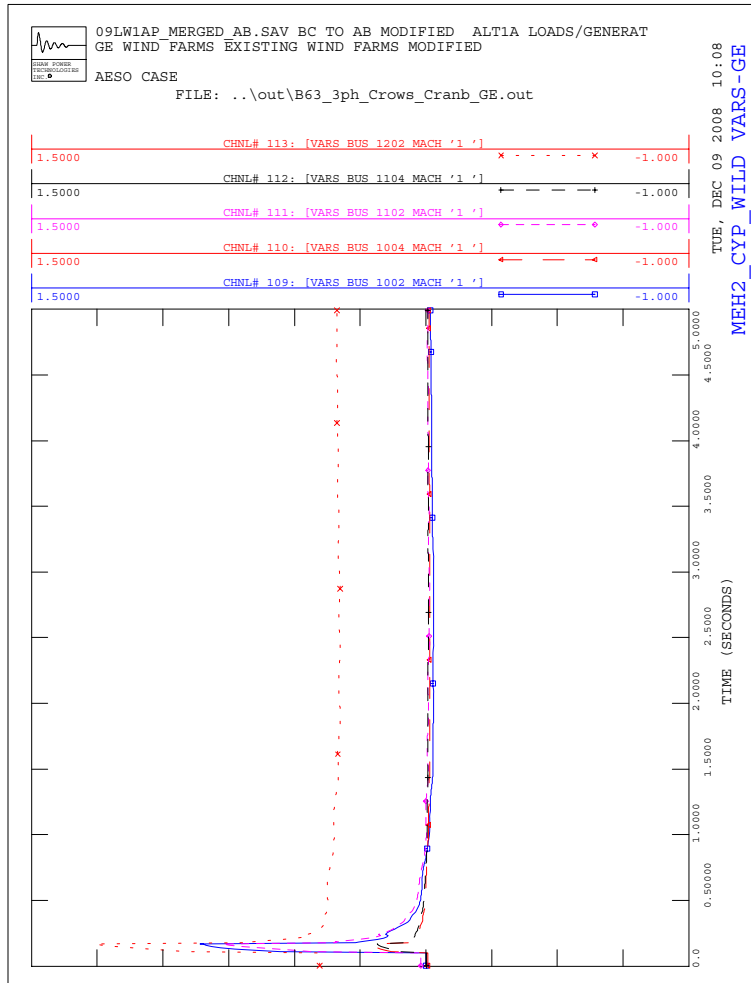
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE
FILE: ..\out\B61_3ph_Langd_Genes_GE.out

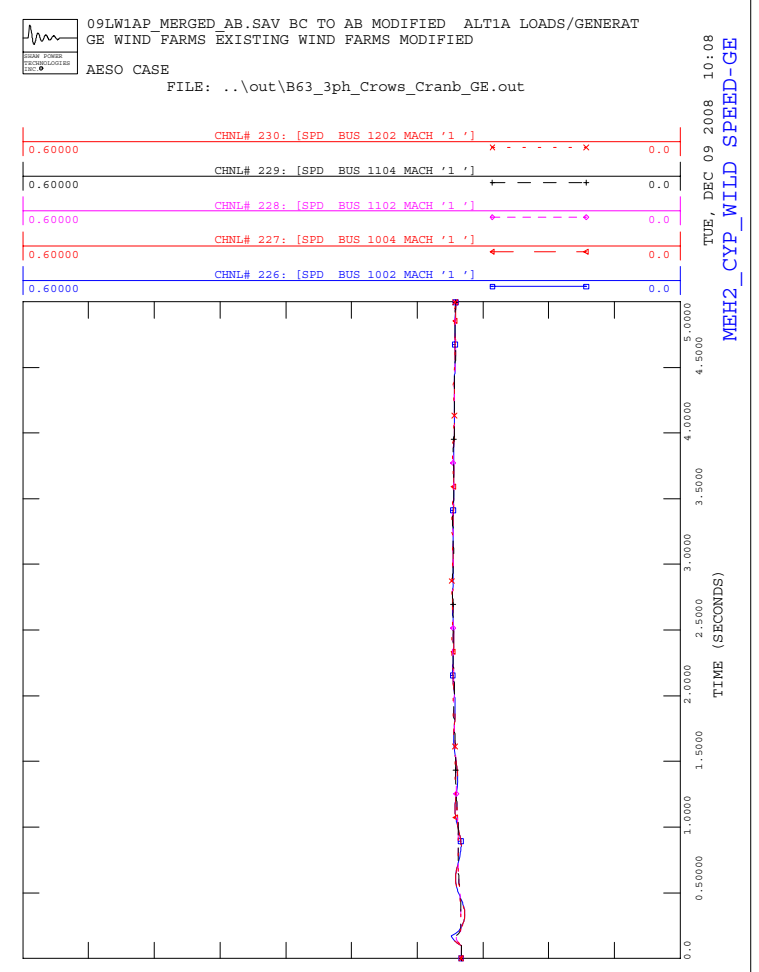
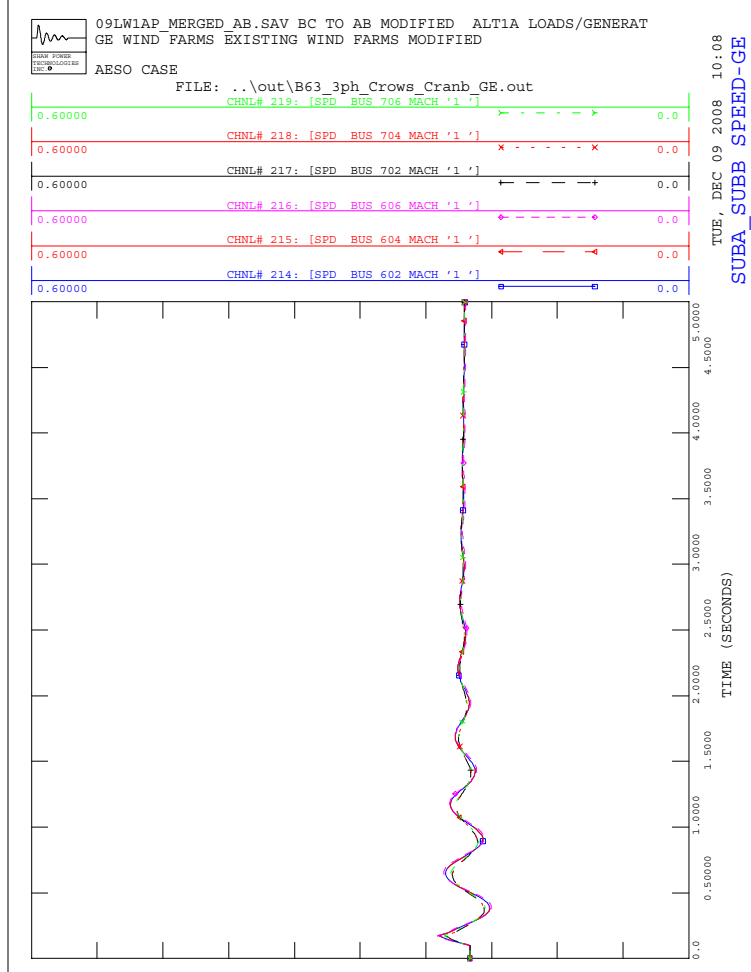
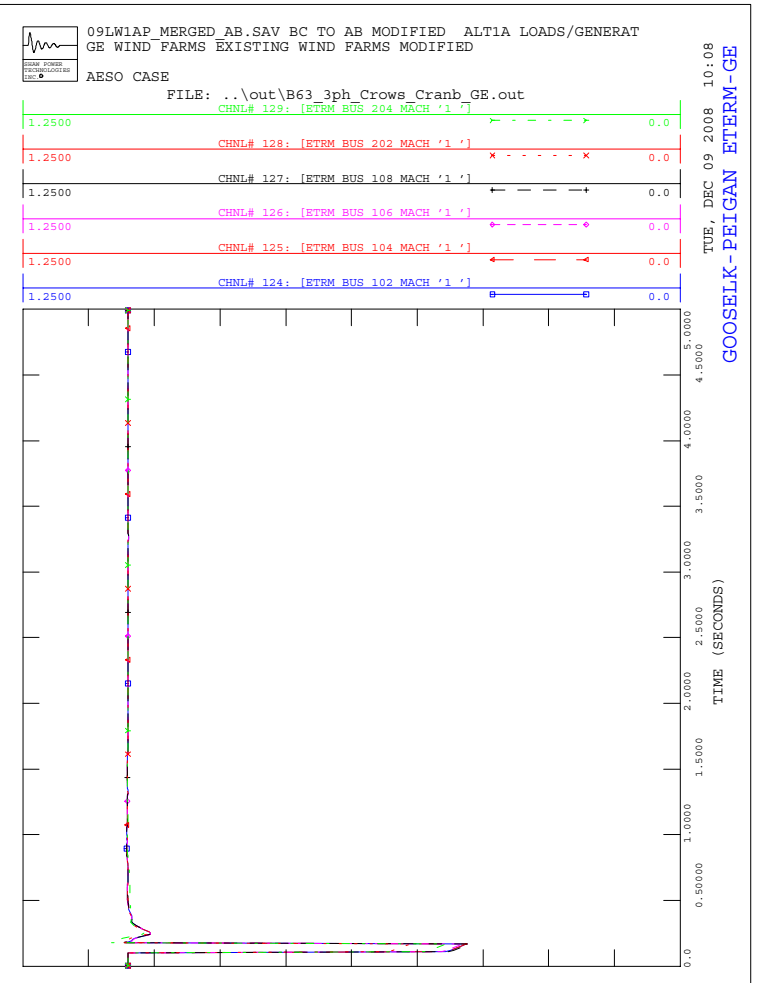
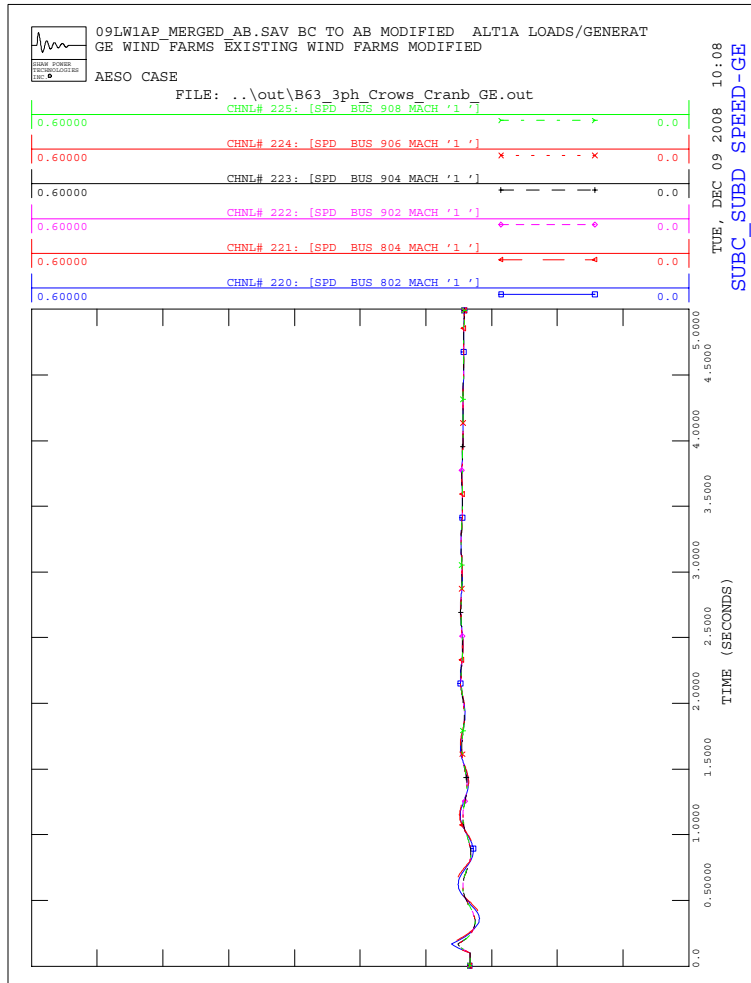
WED, NOV 12 2008 14:35
LANGDON_FRQ-GE

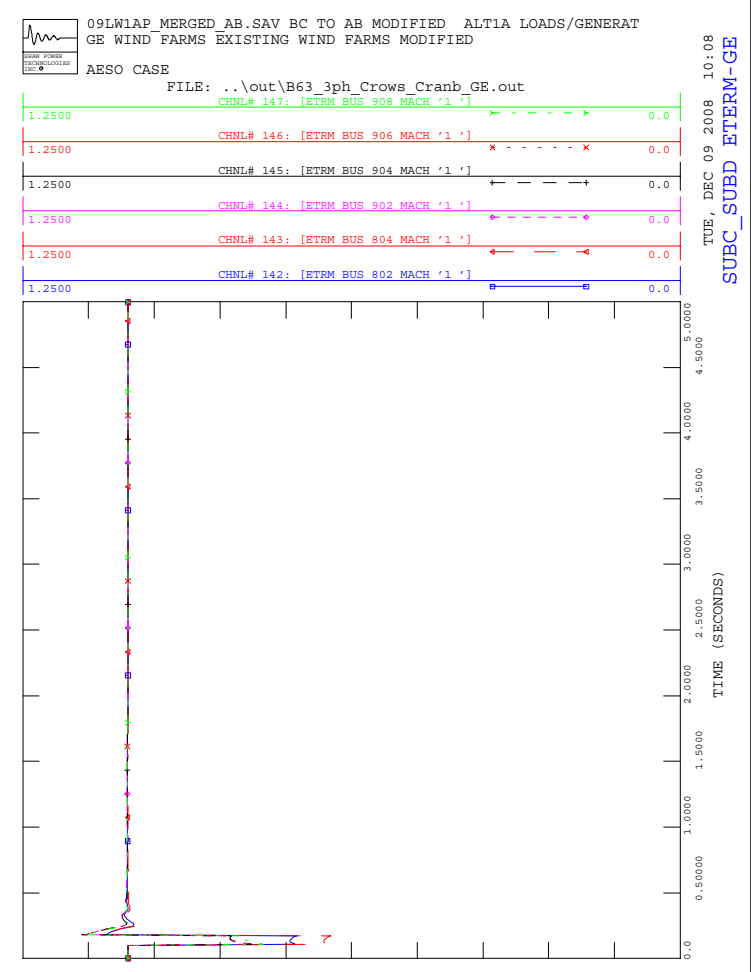
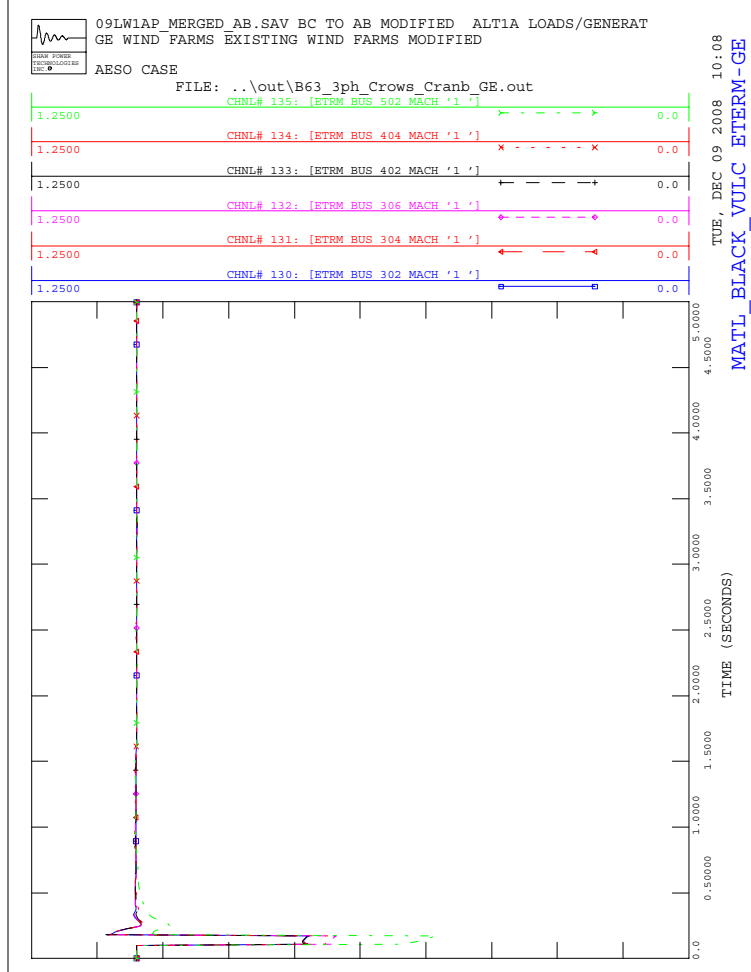
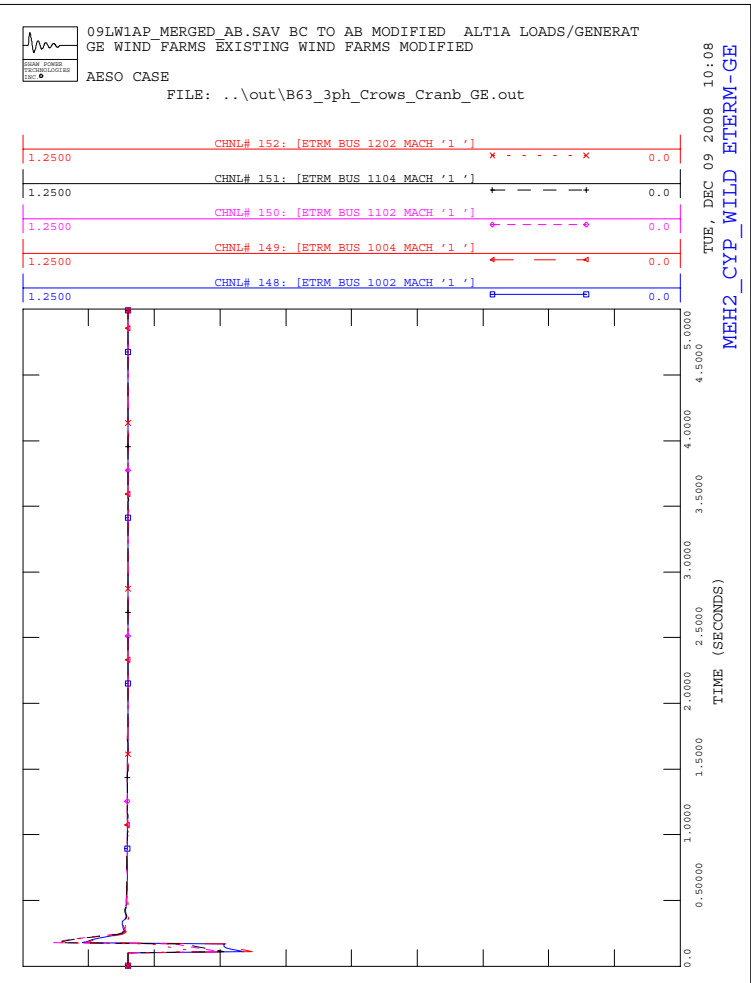
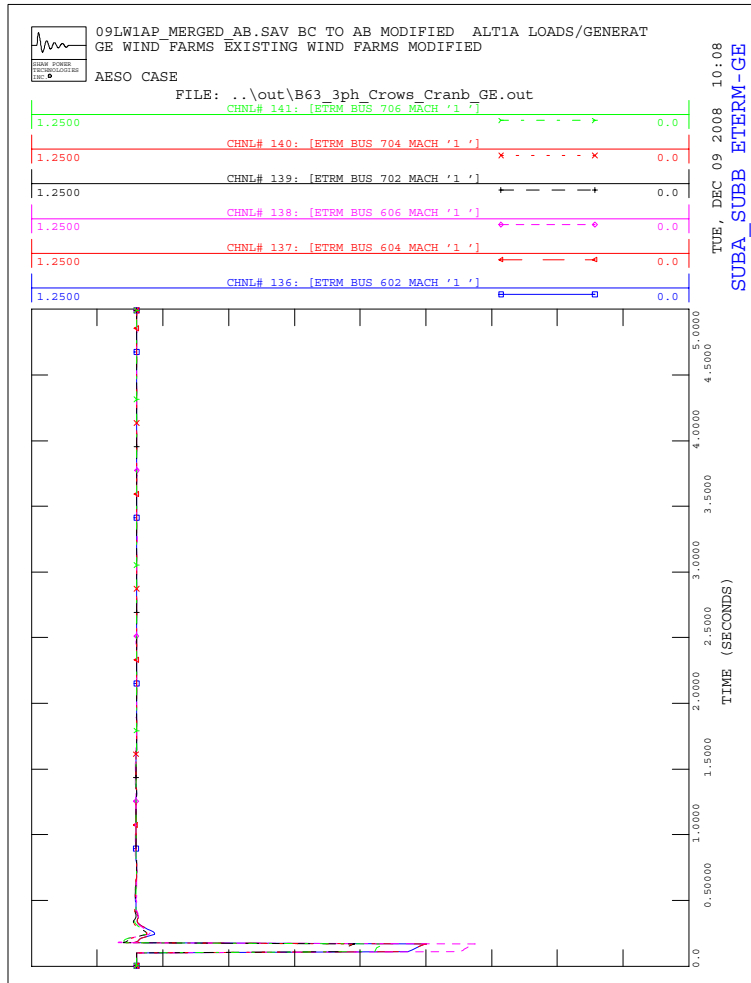


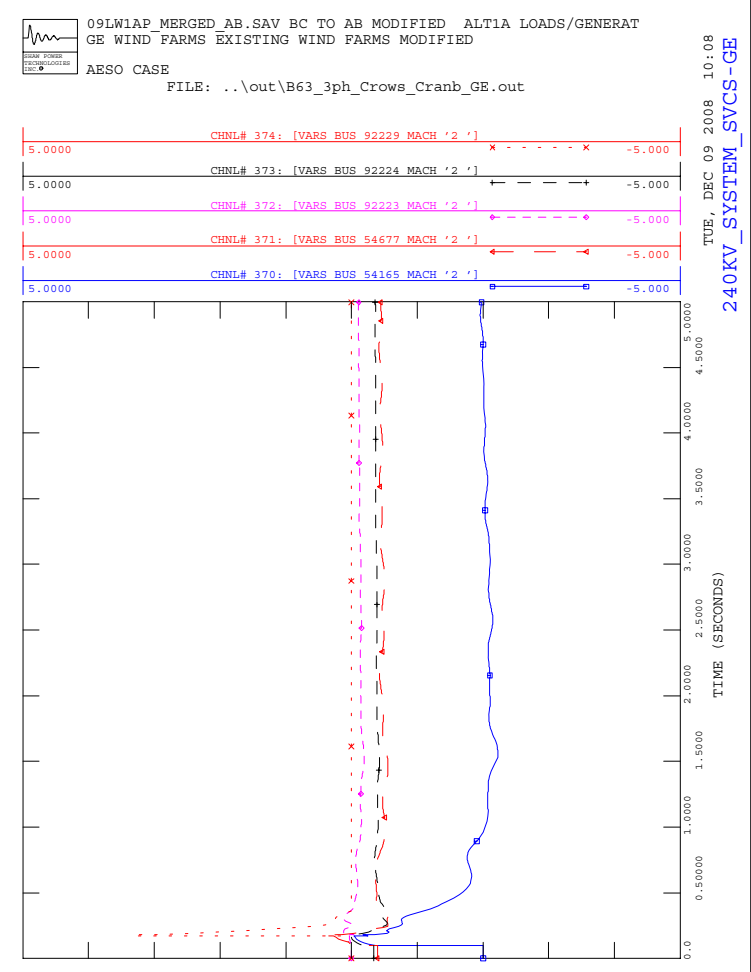
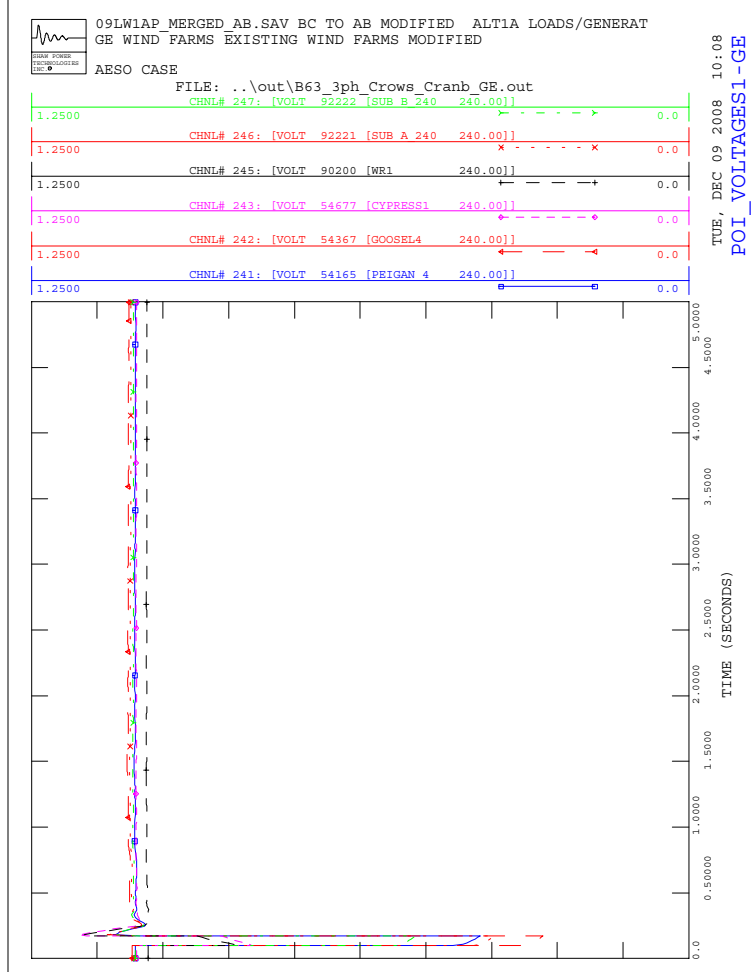
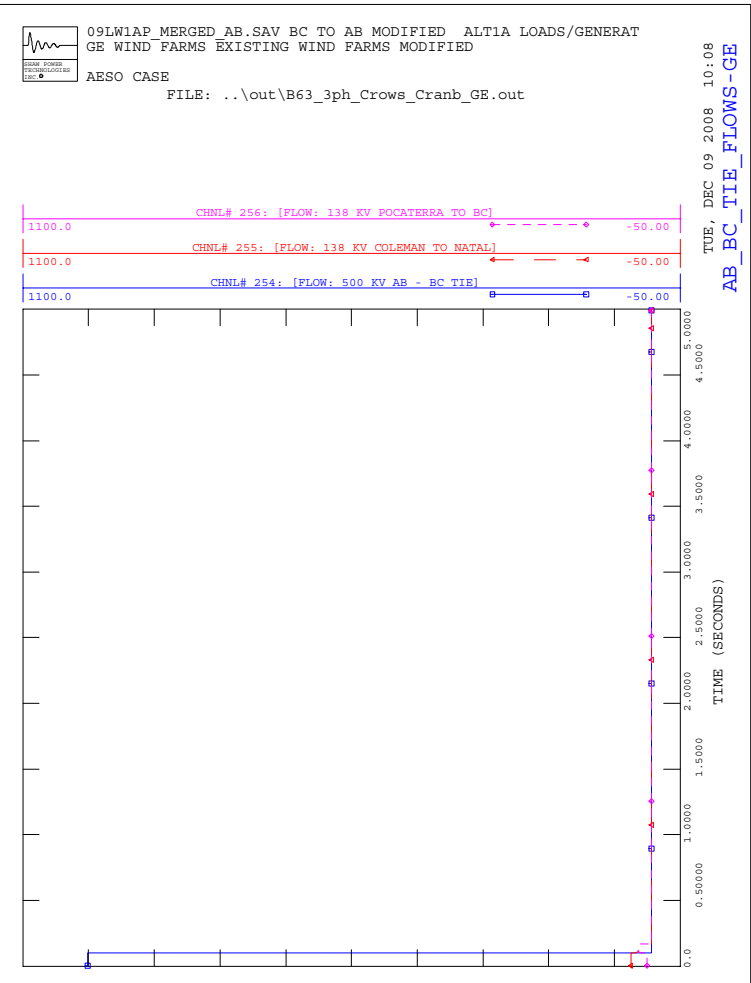
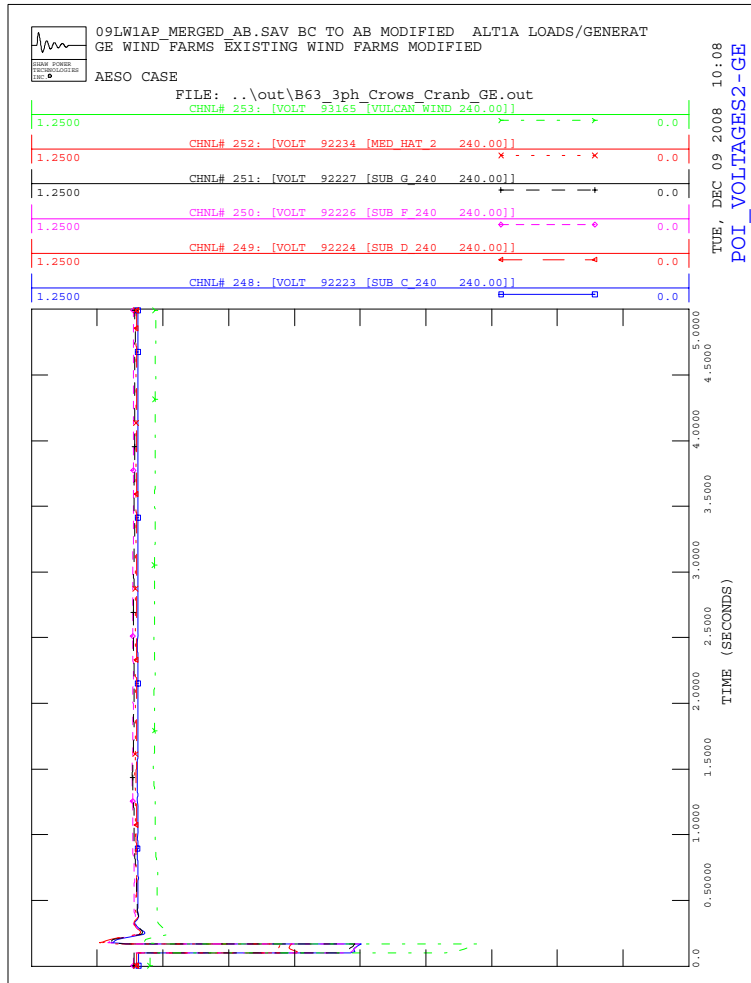








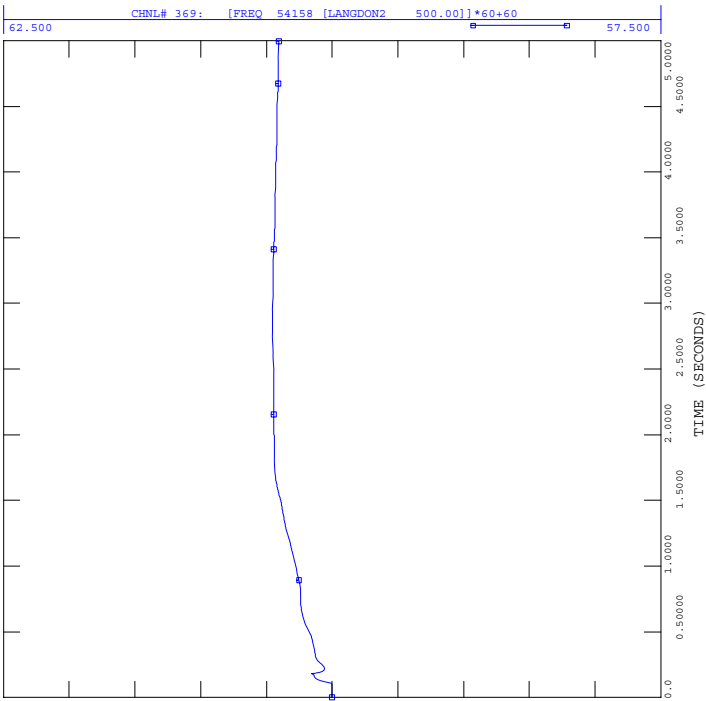


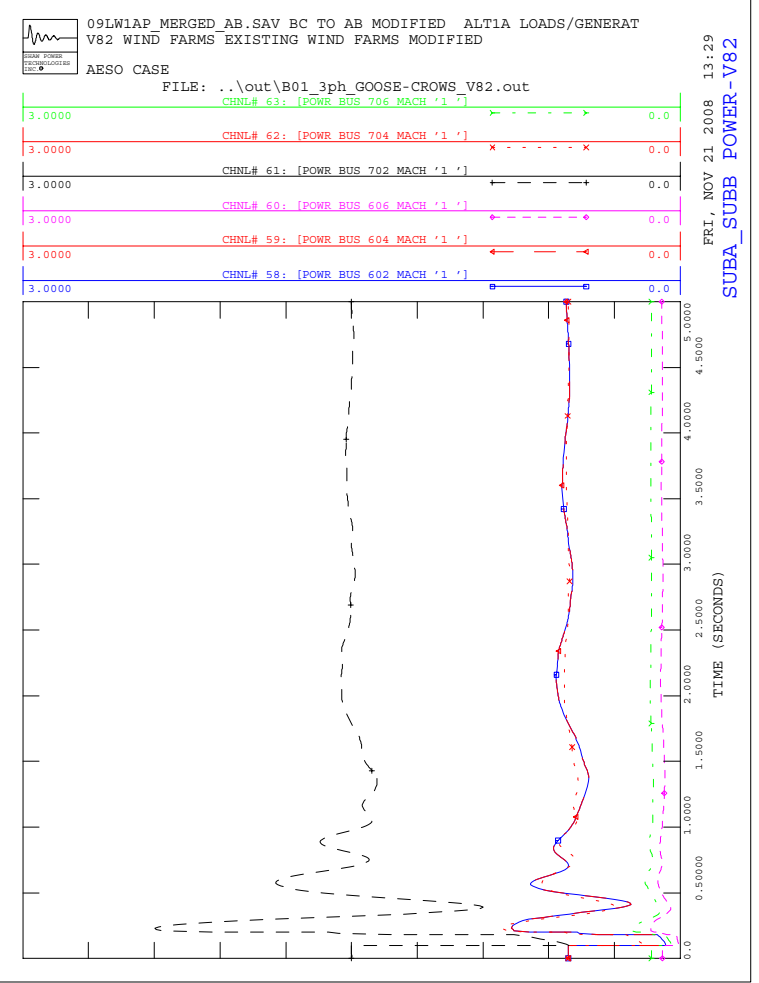
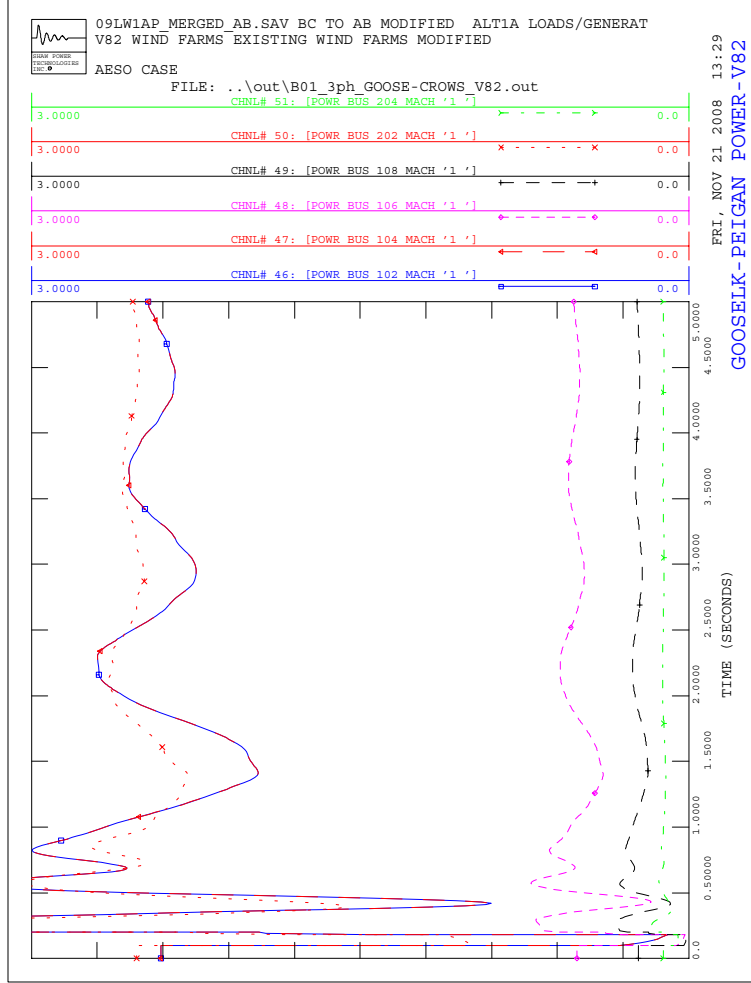
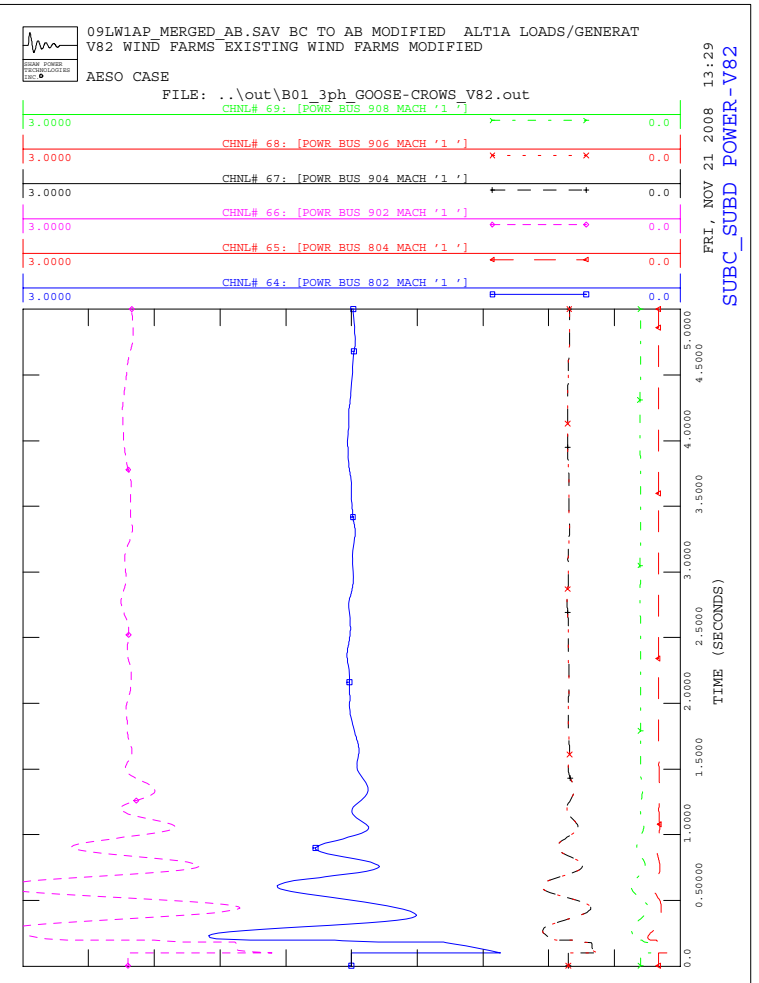
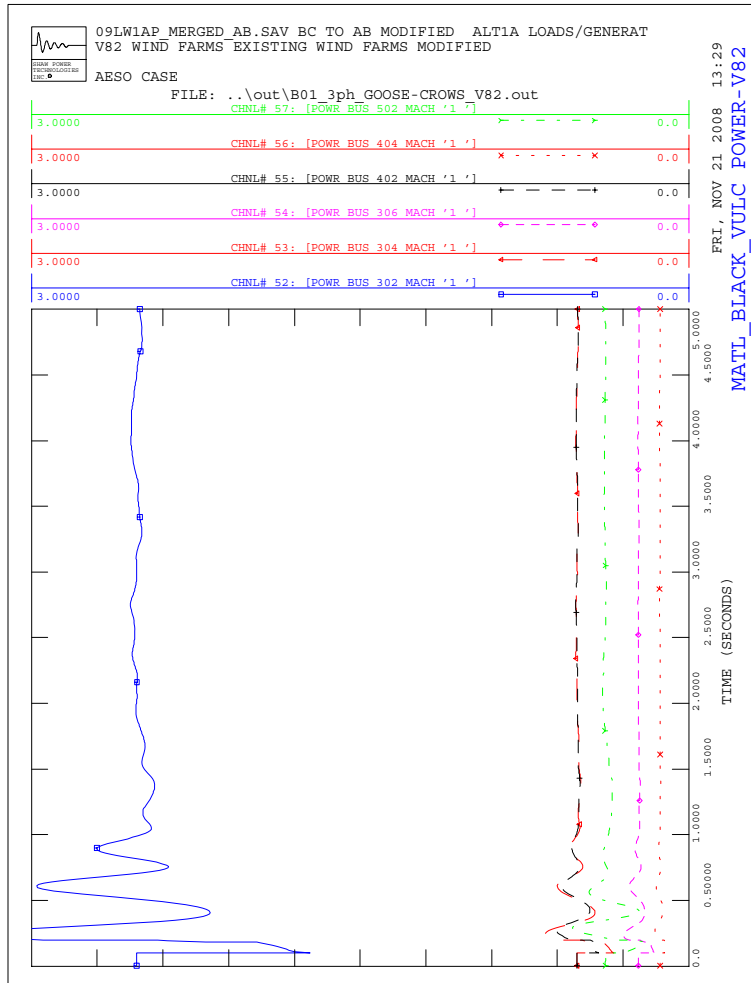


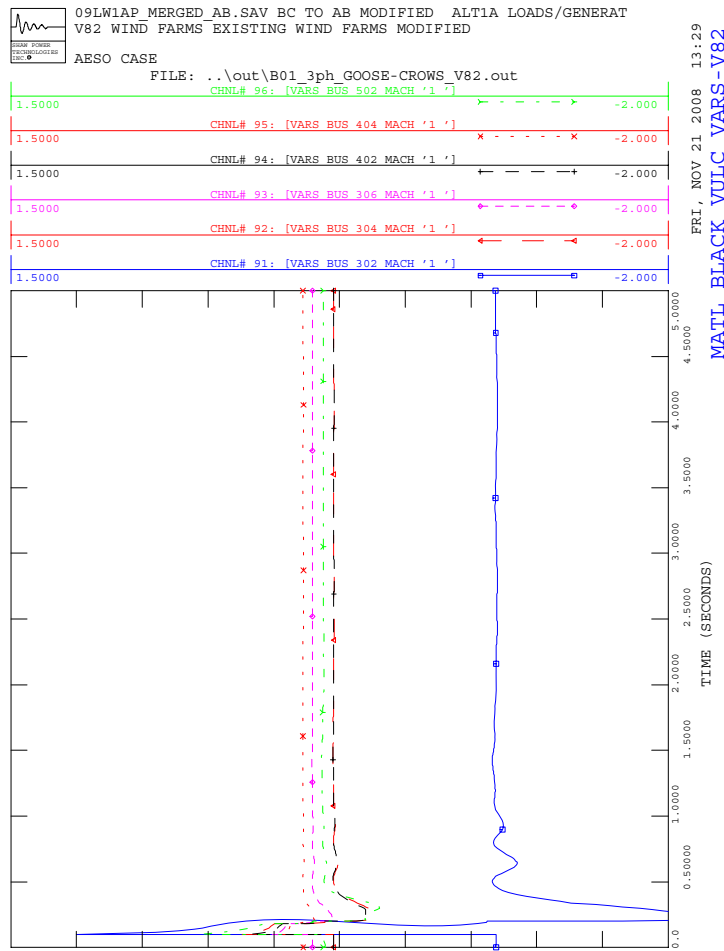
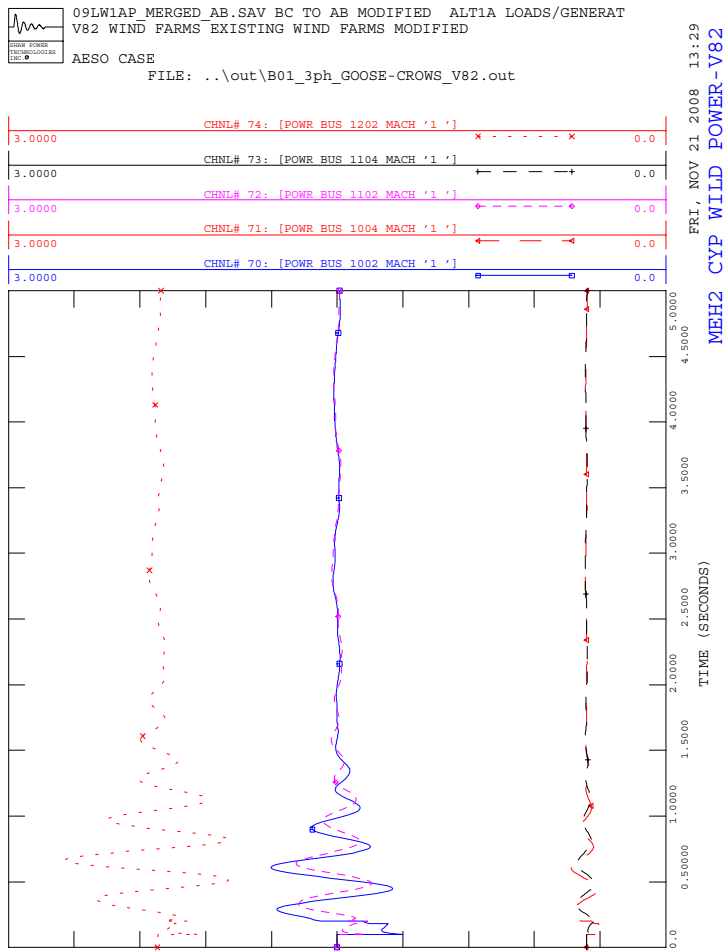
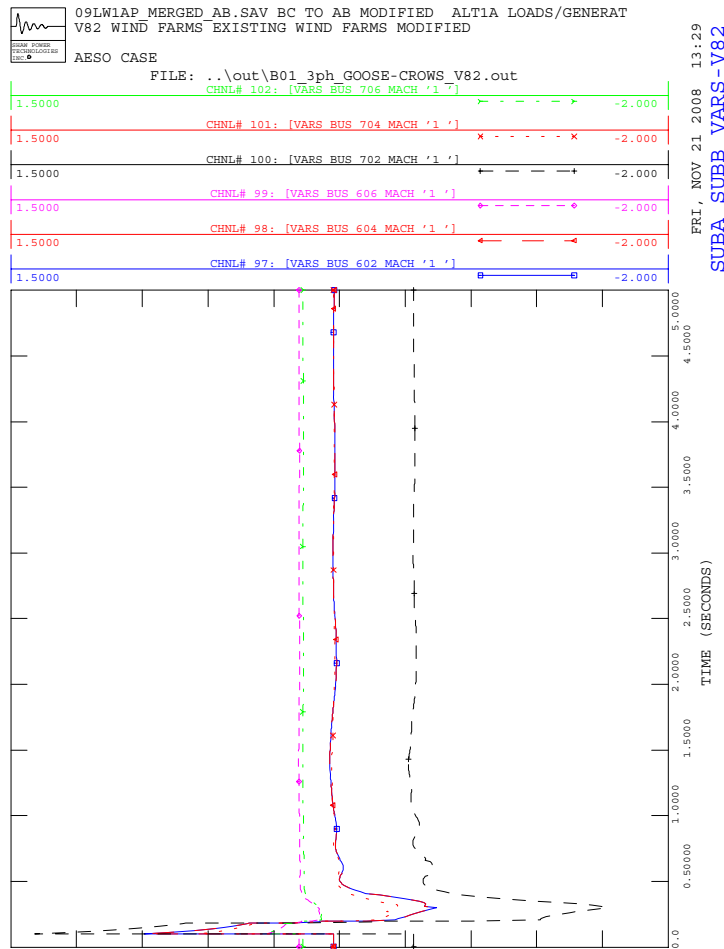
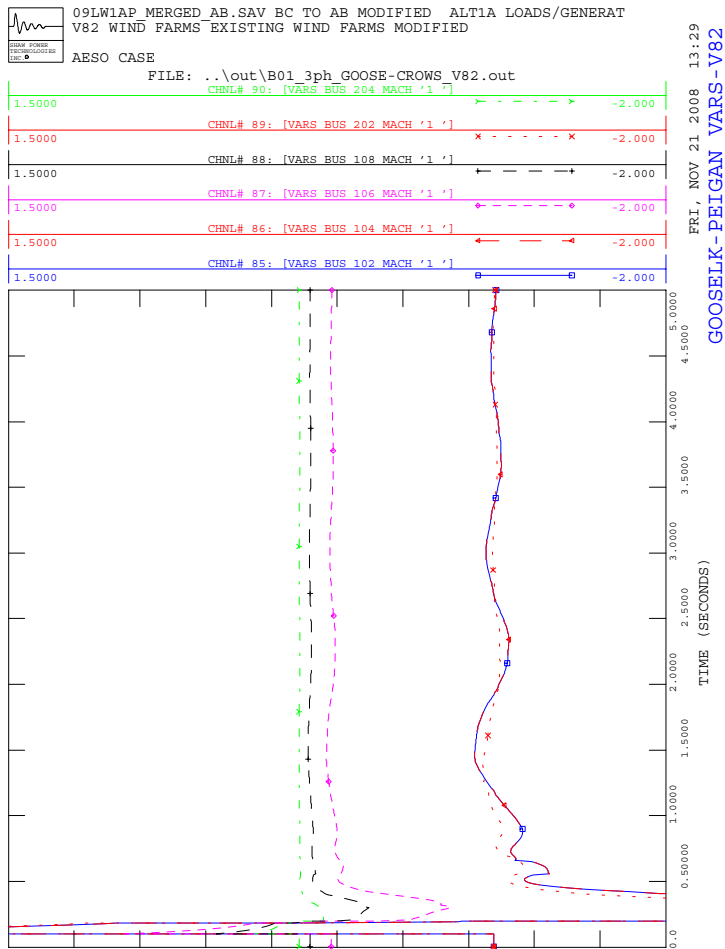


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
GE WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE
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TUE, DEC 09 2008 10:08
LANGDON_FRQ-GE

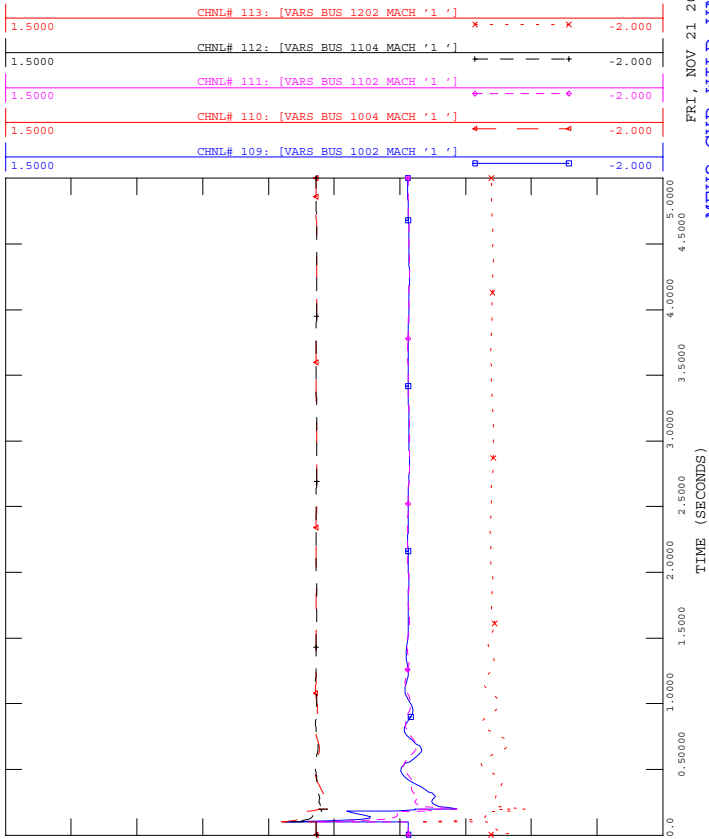






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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

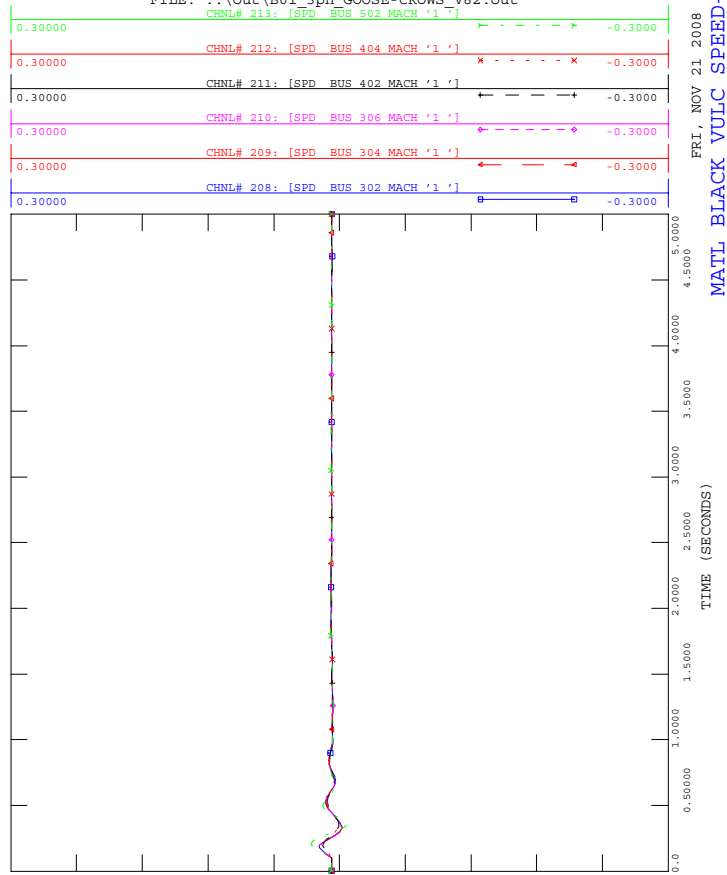
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FRI, NOV 21 2008 13:29

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

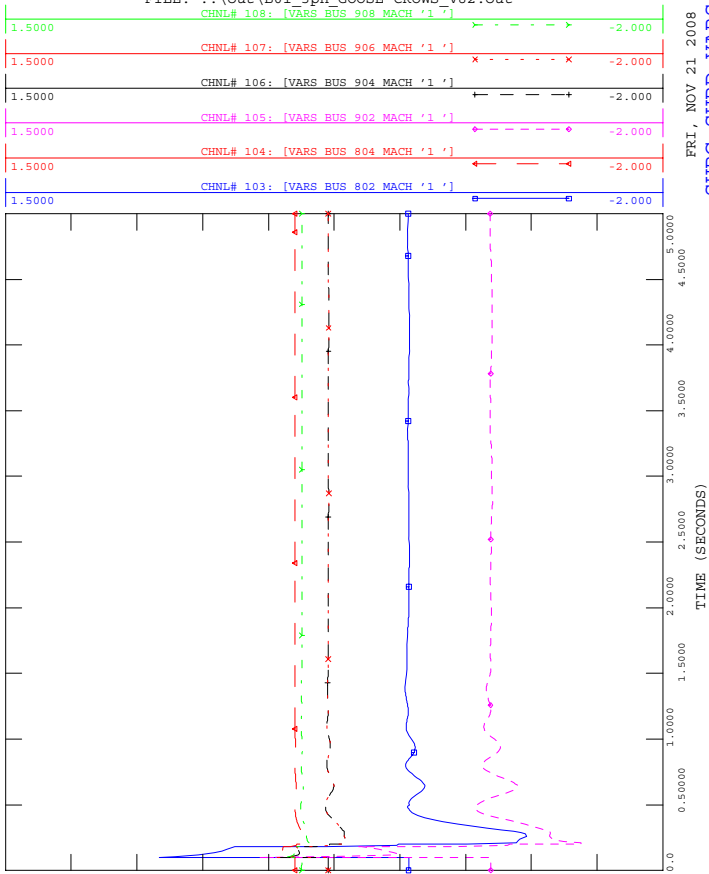
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 AESO CASE

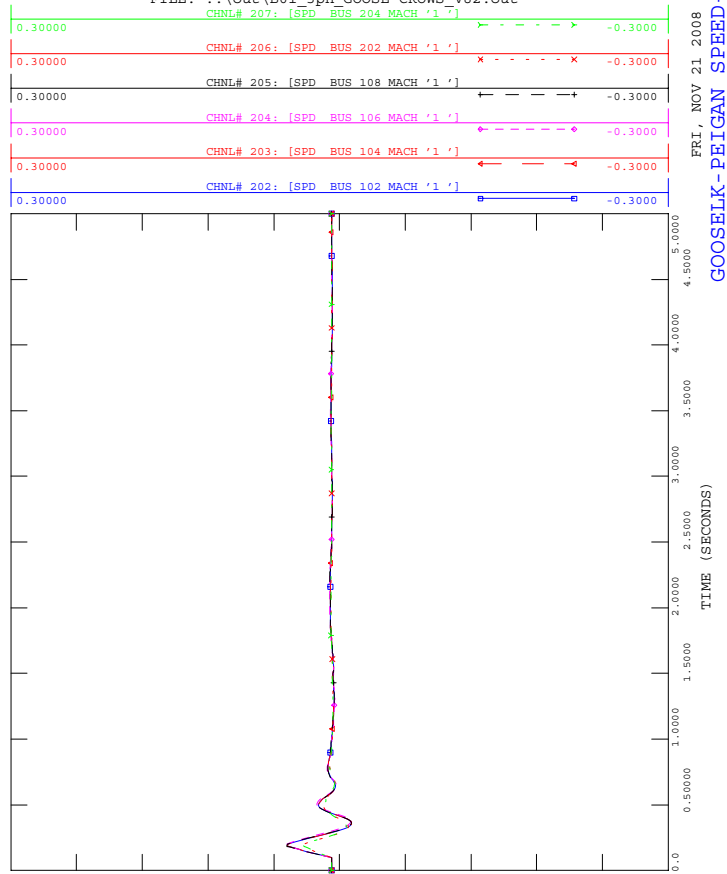
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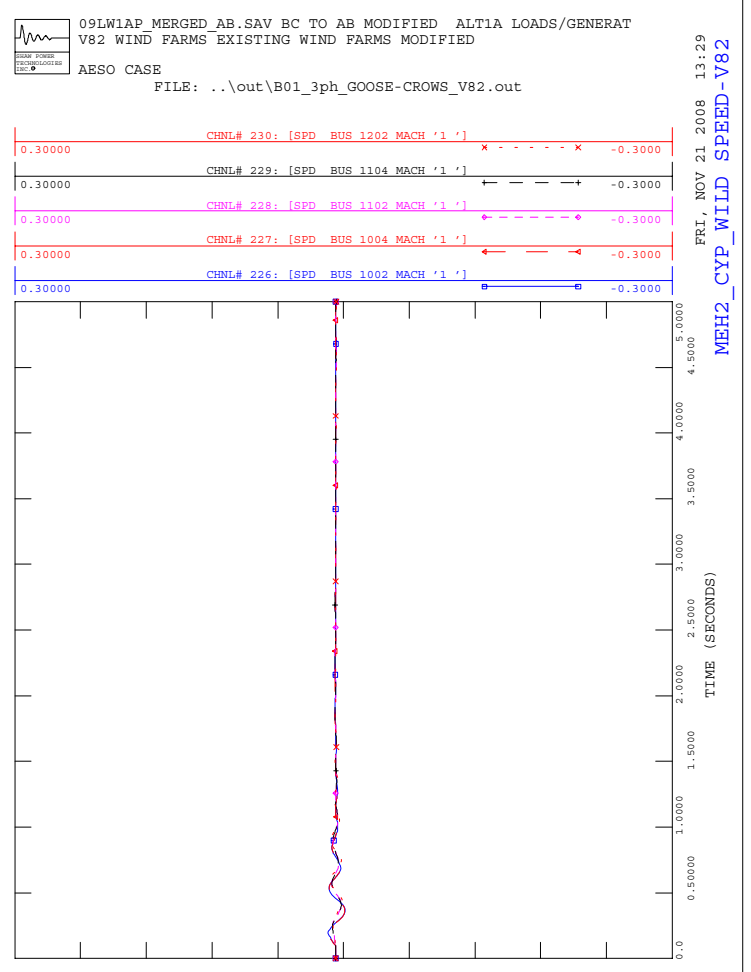
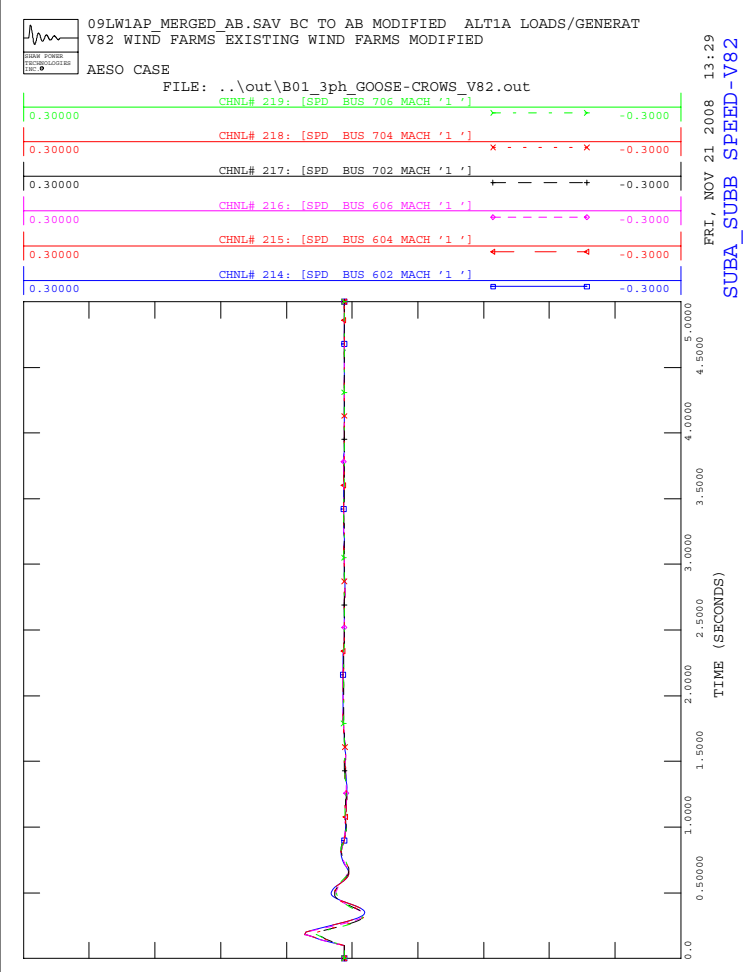
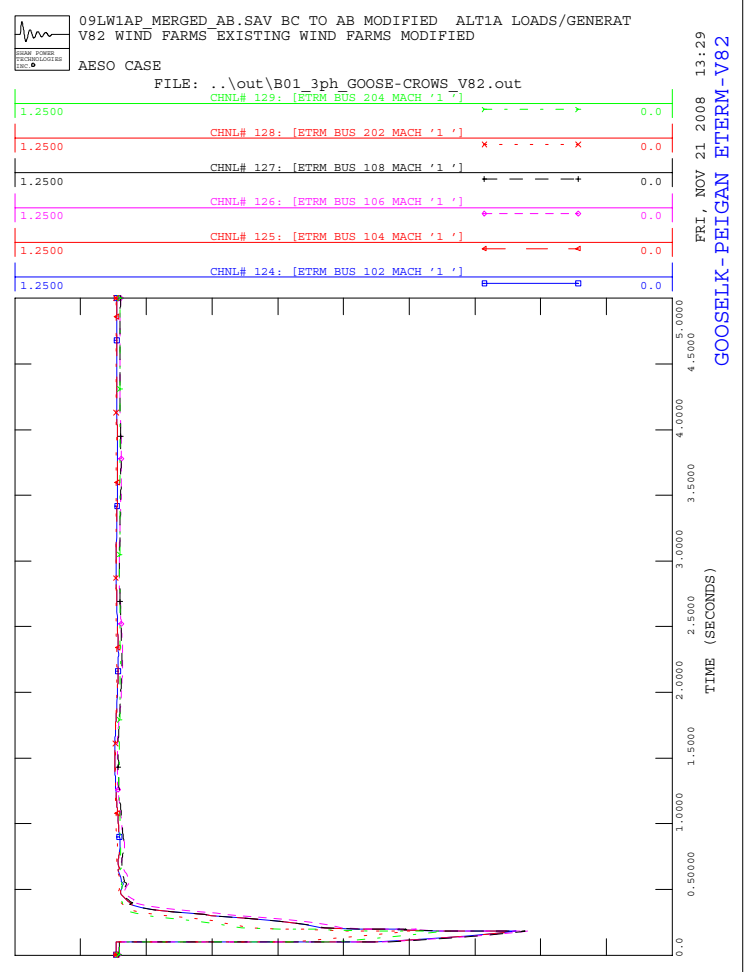
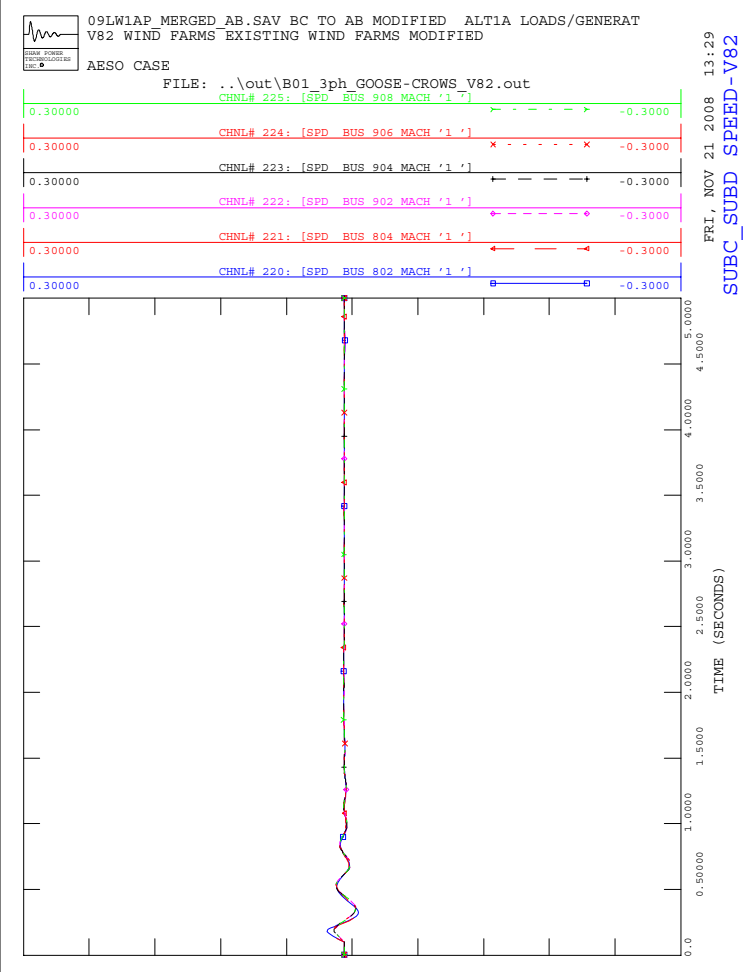
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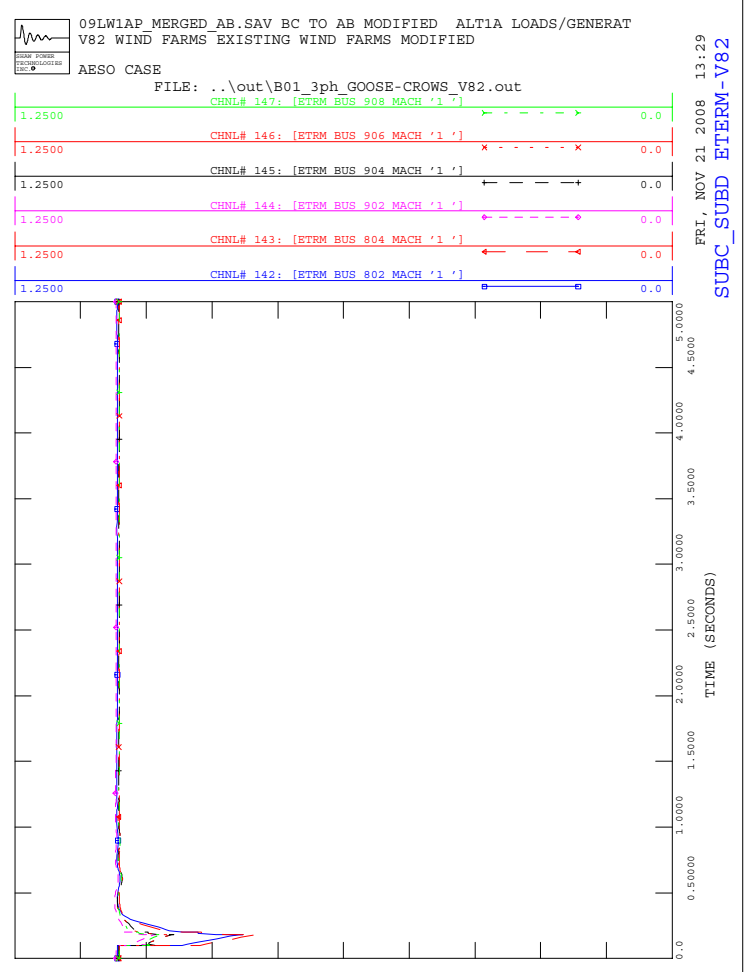
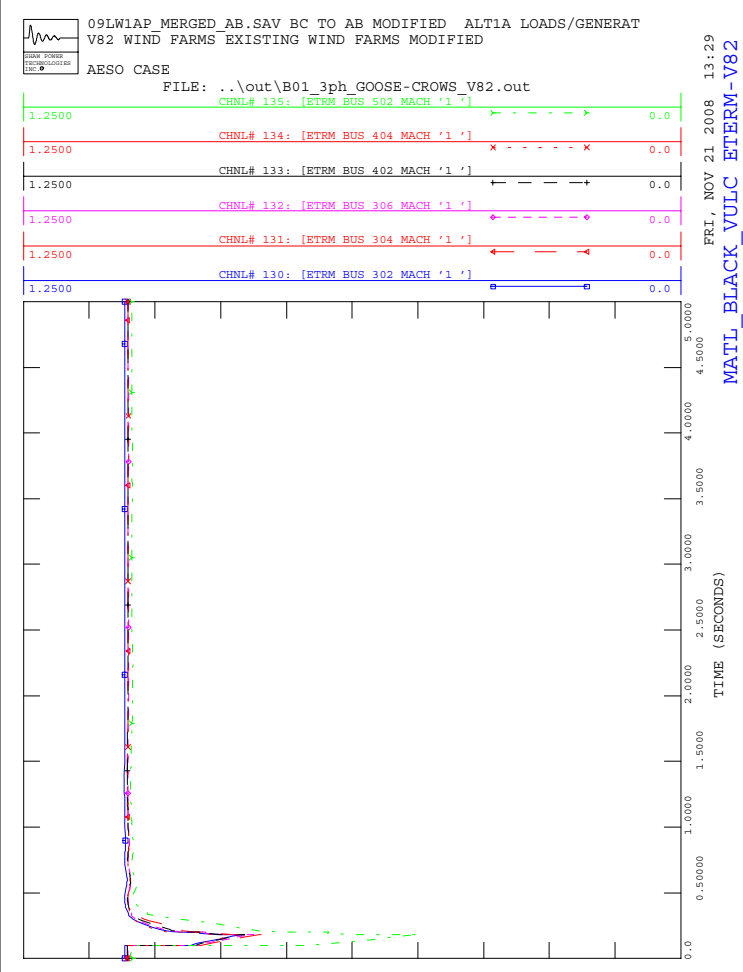
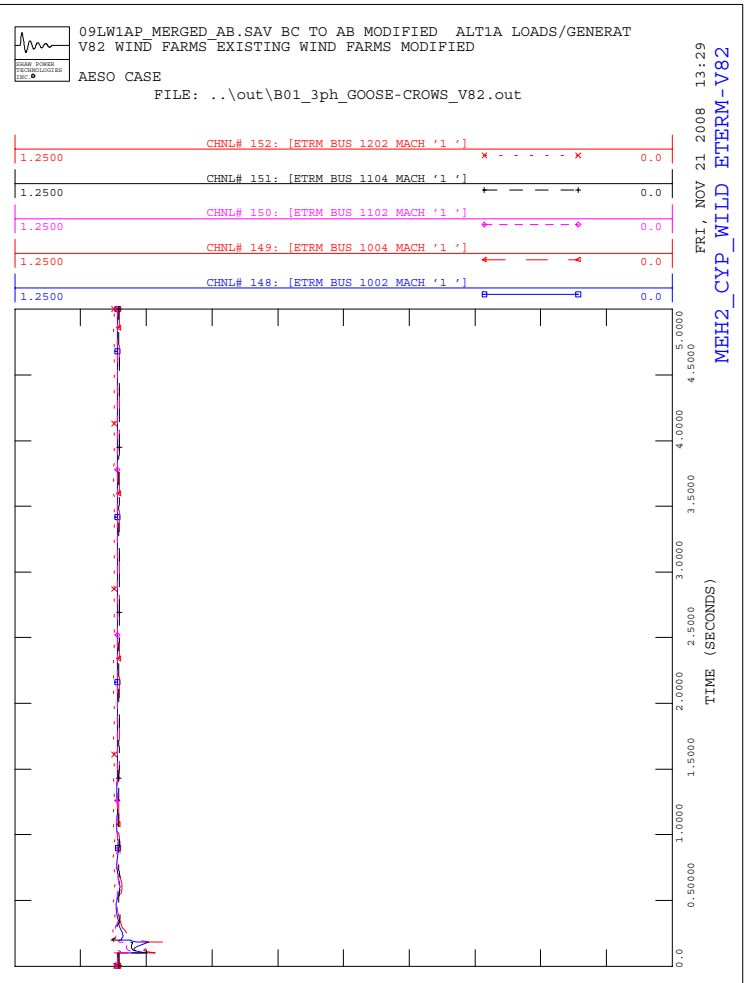
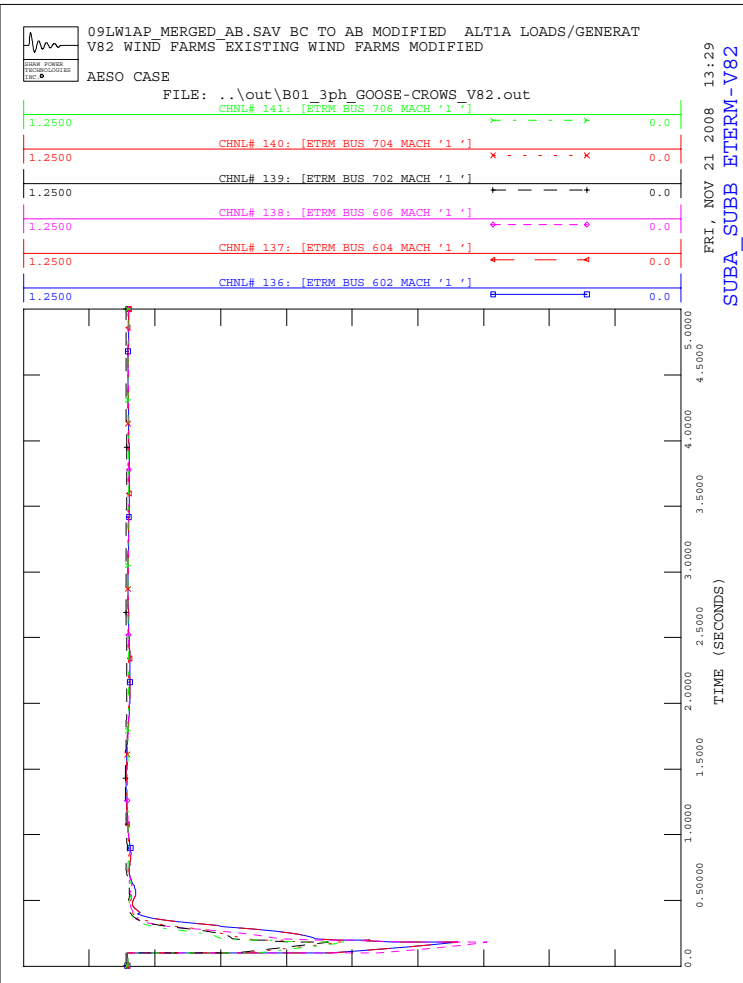
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

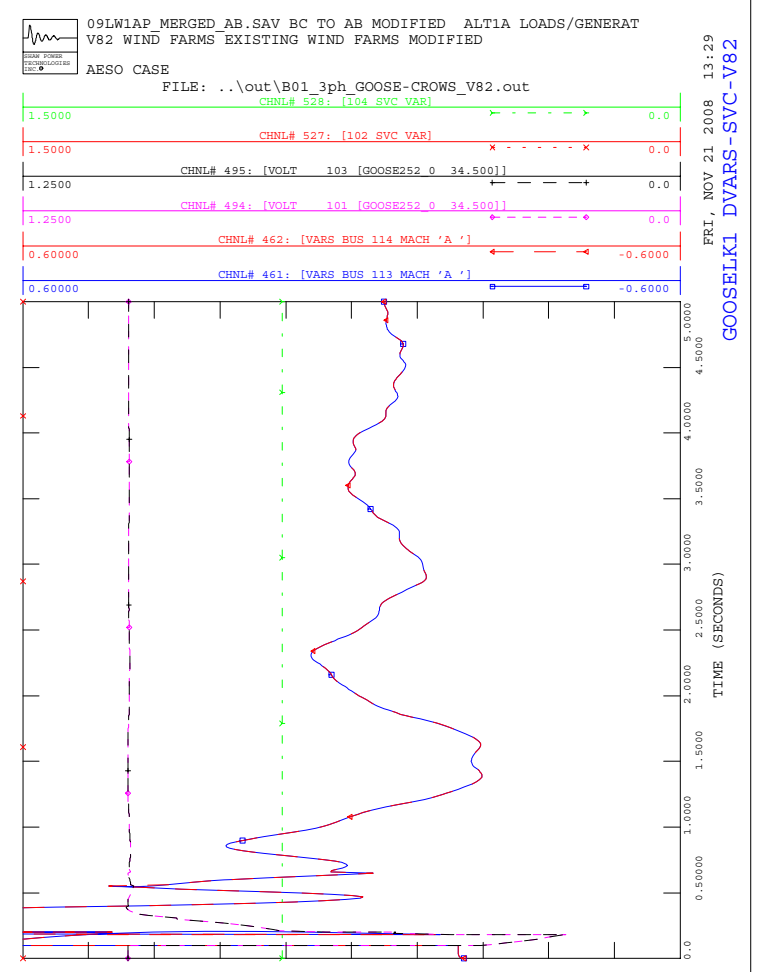
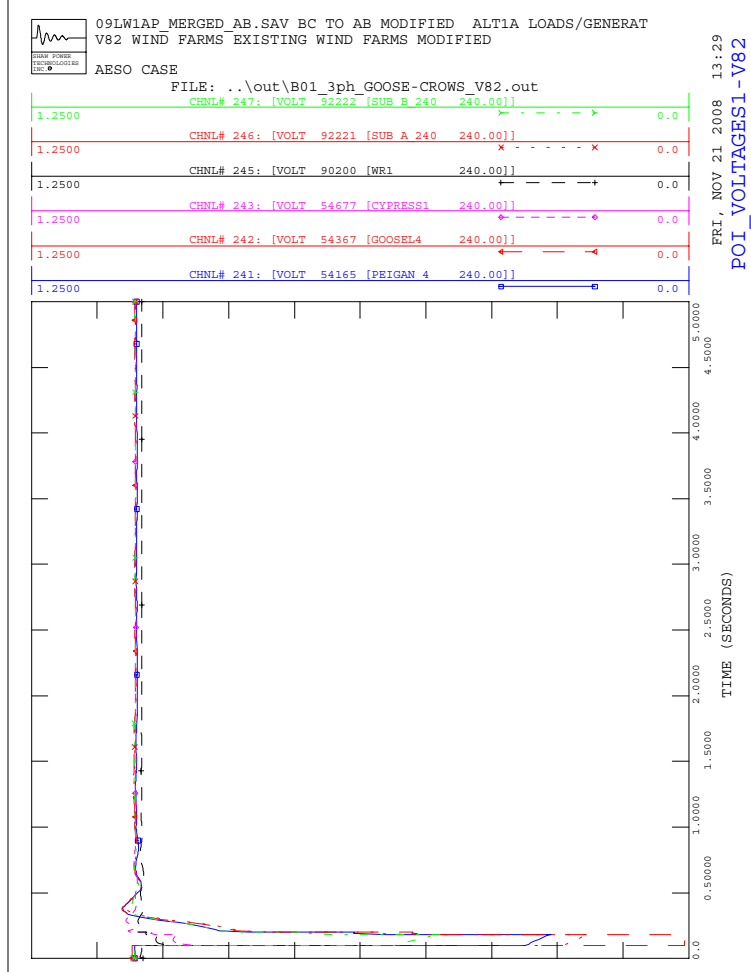
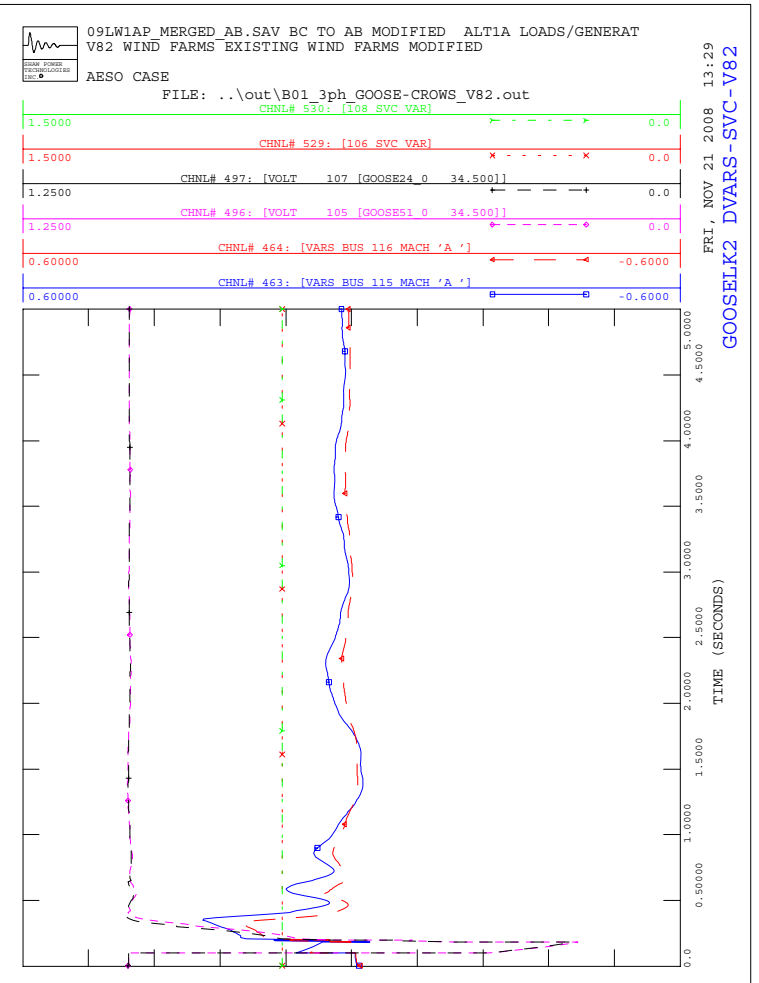
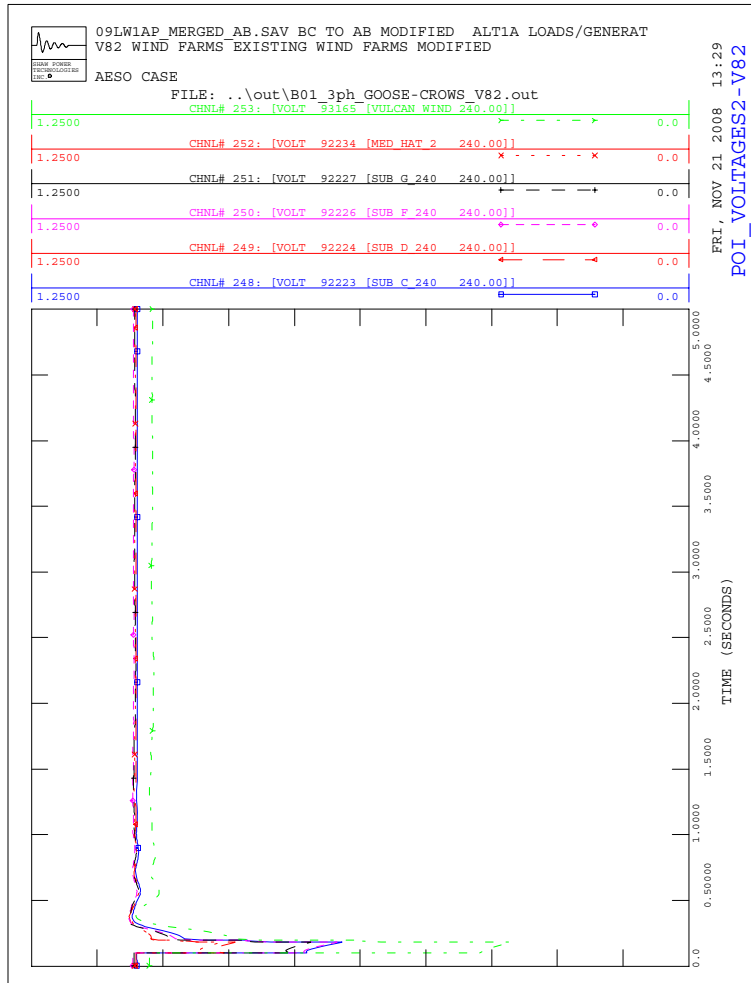
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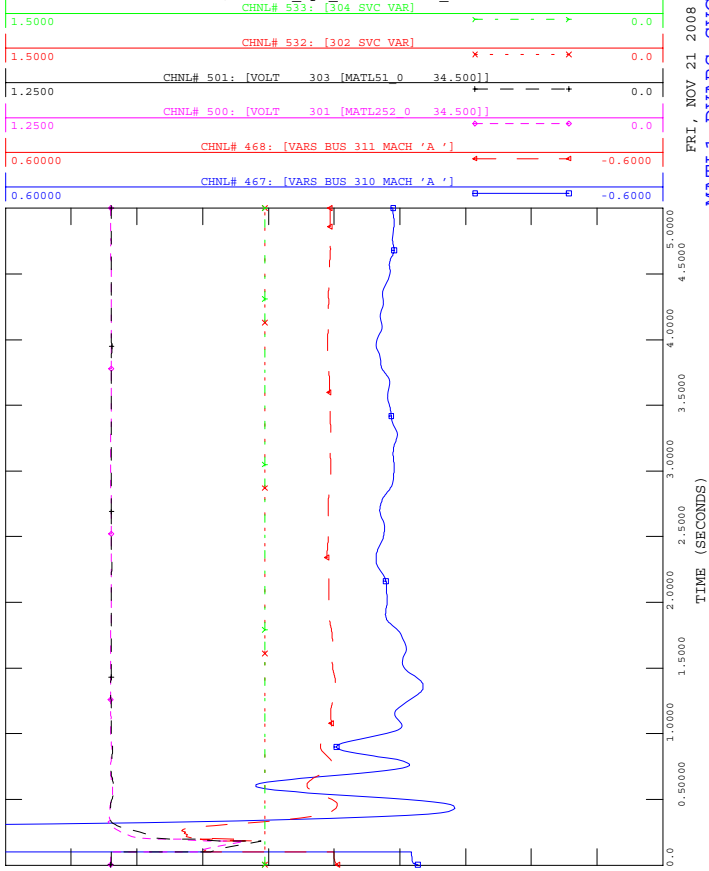






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

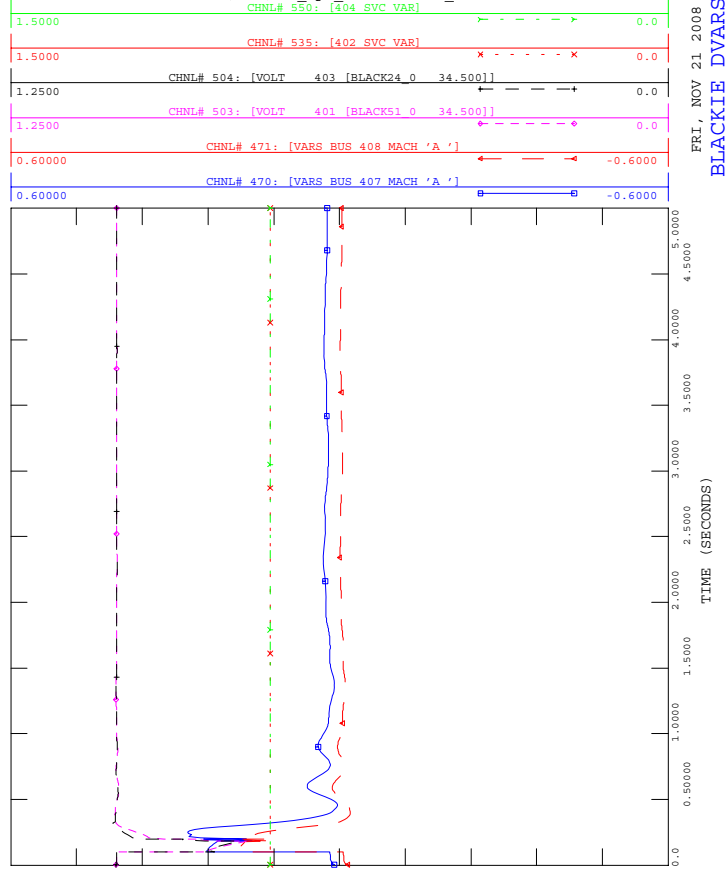
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FRI, NOV 21 2008 13:29
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

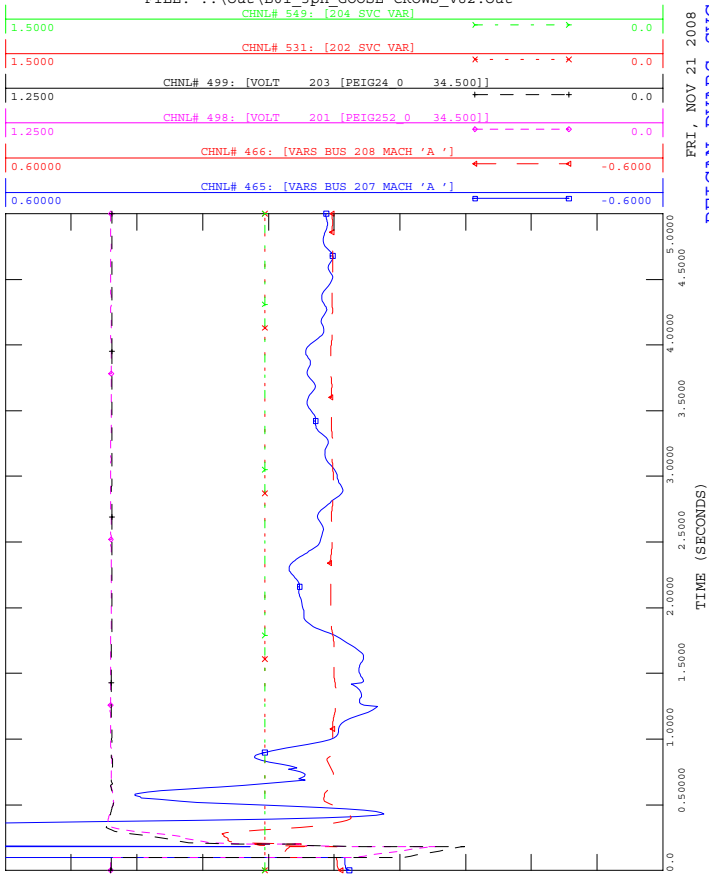
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 AESO CASE

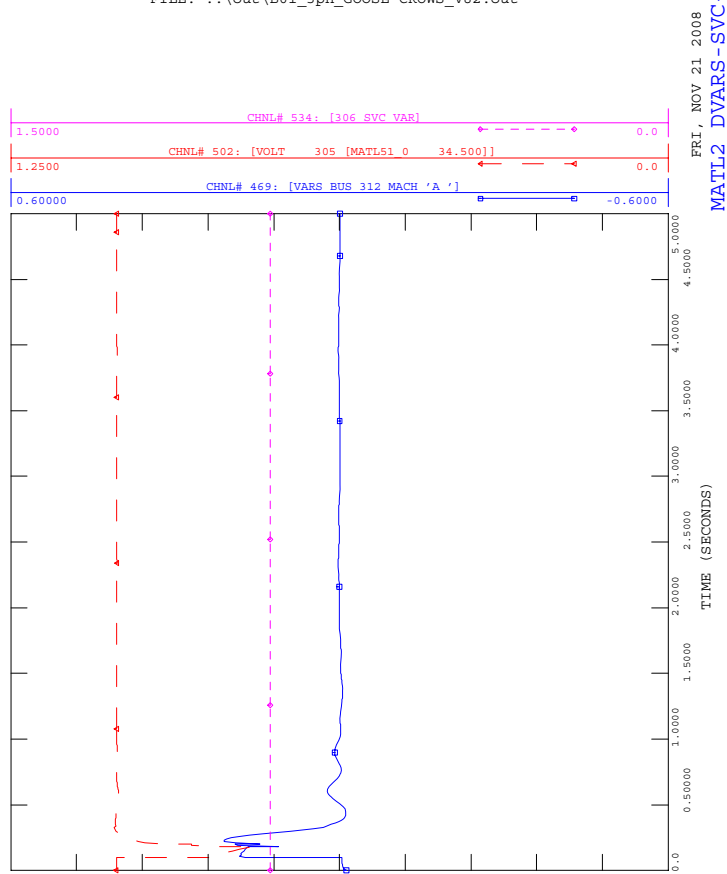
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

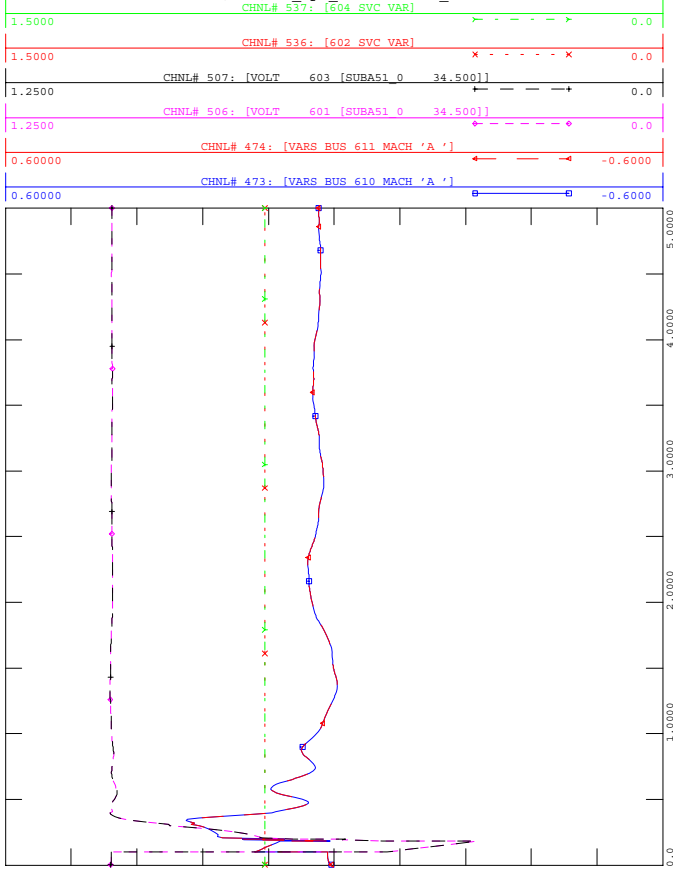
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 AESO CASE

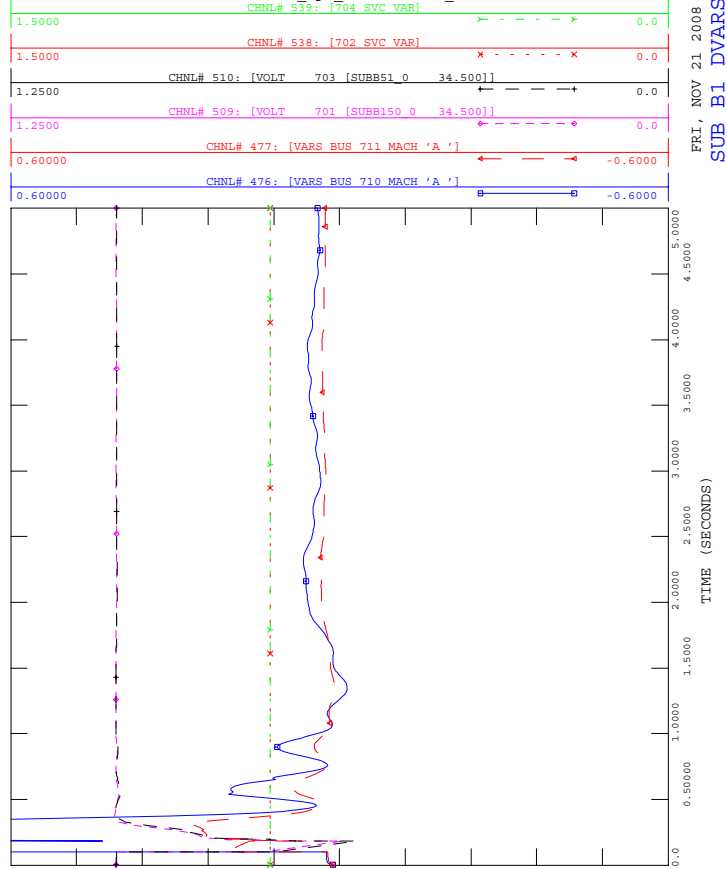
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 SUB_A1 DVARS-V82

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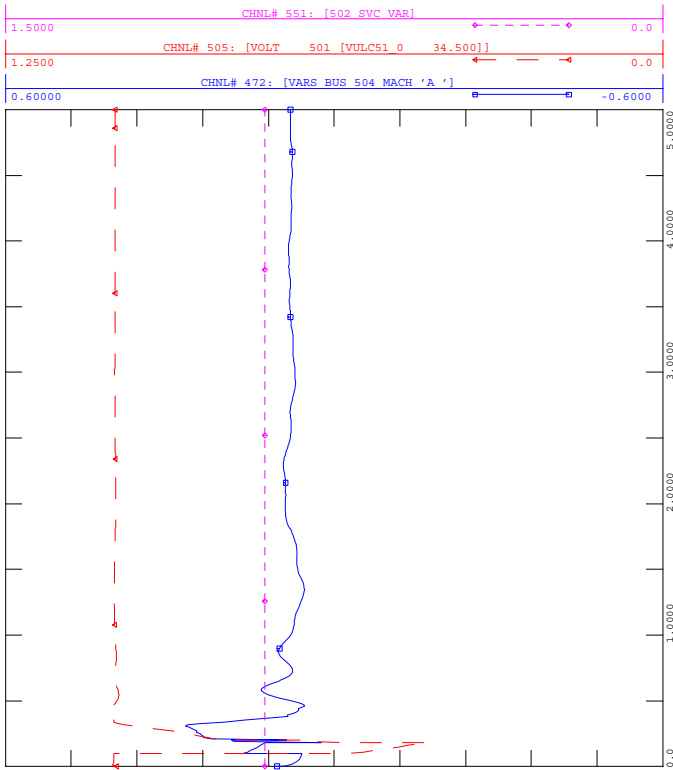
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 SUB_B1 DVARS-V82

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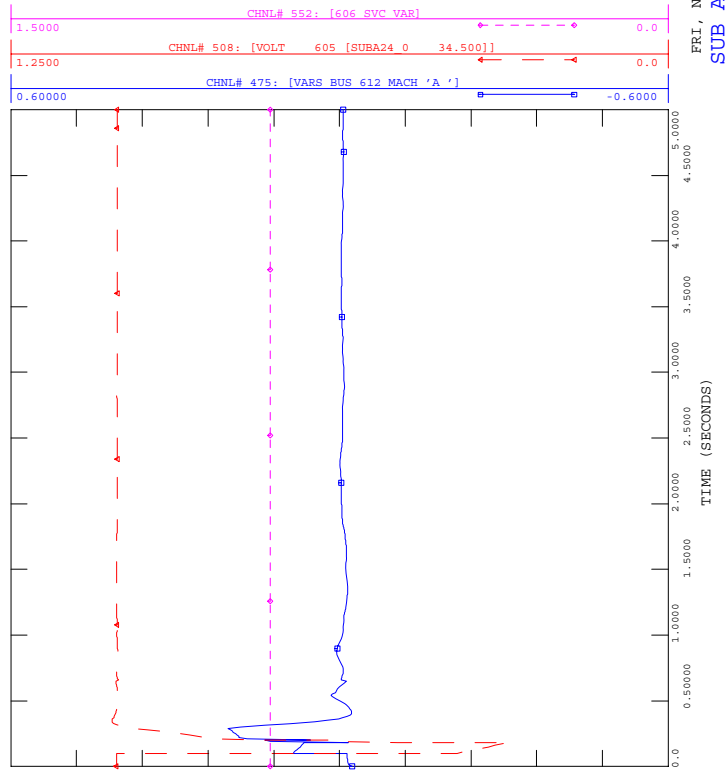
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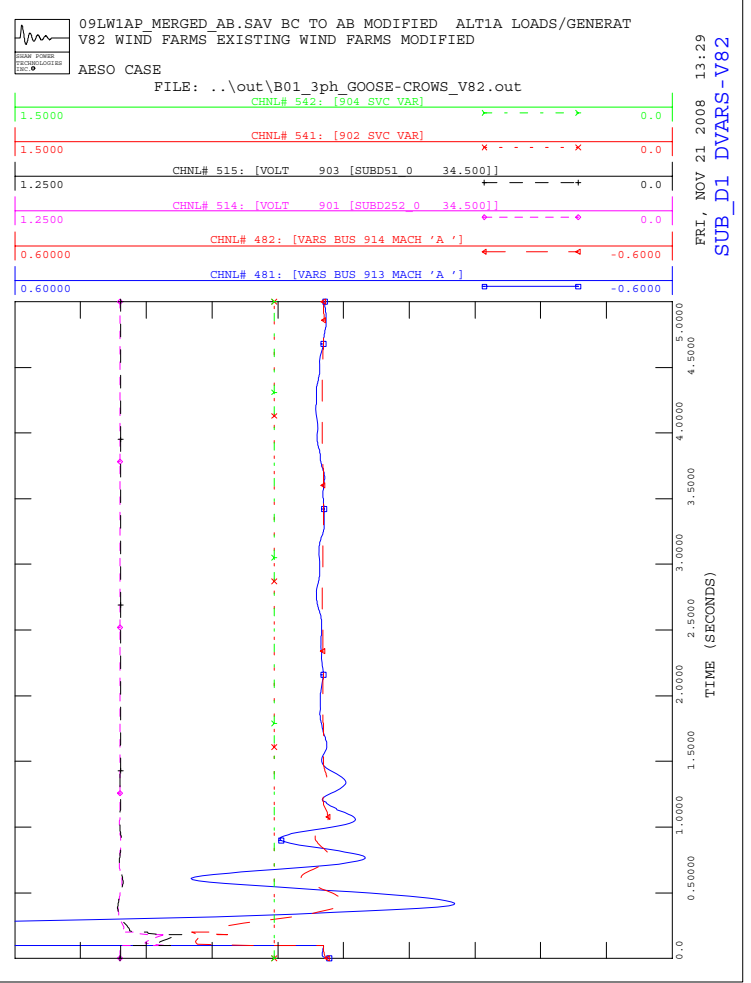
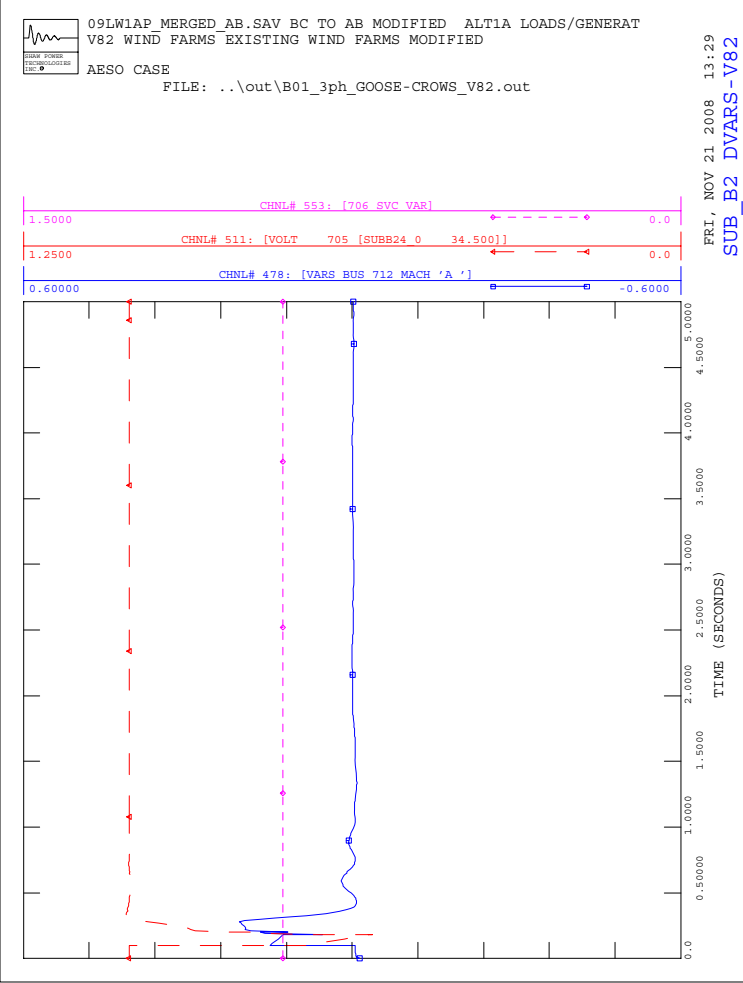
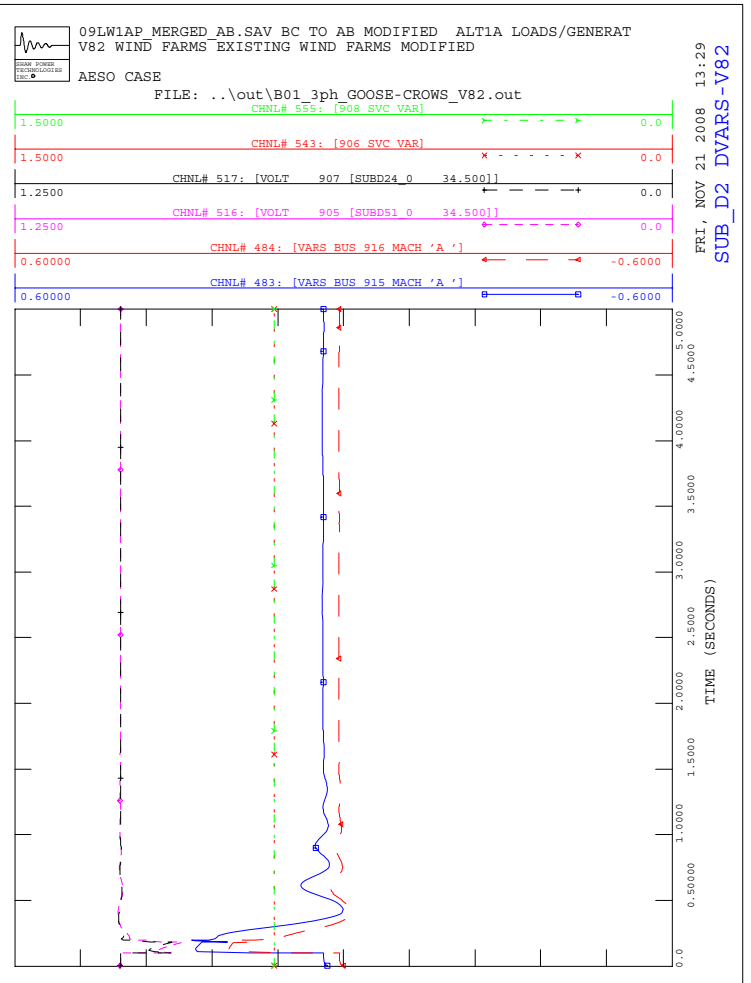
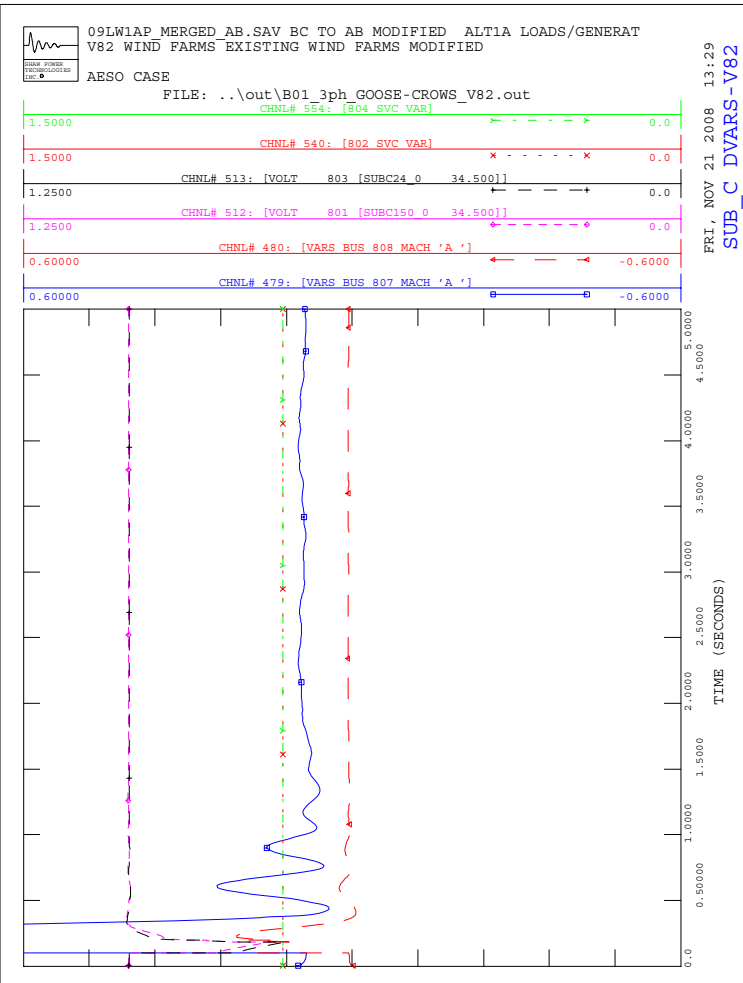
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 VULC DVARS-V82

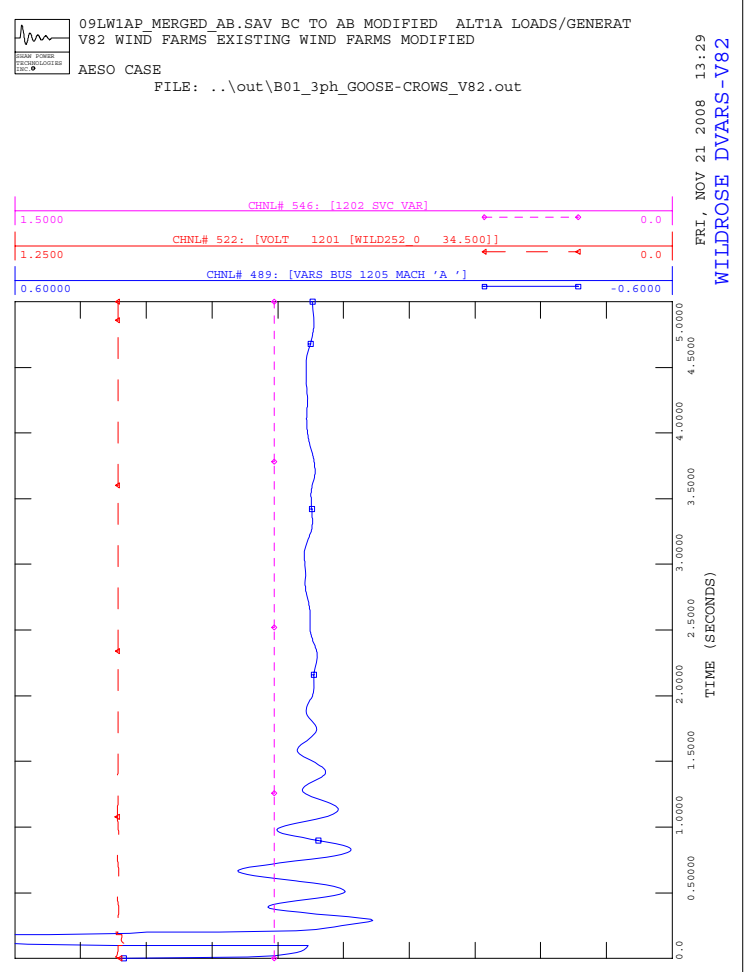
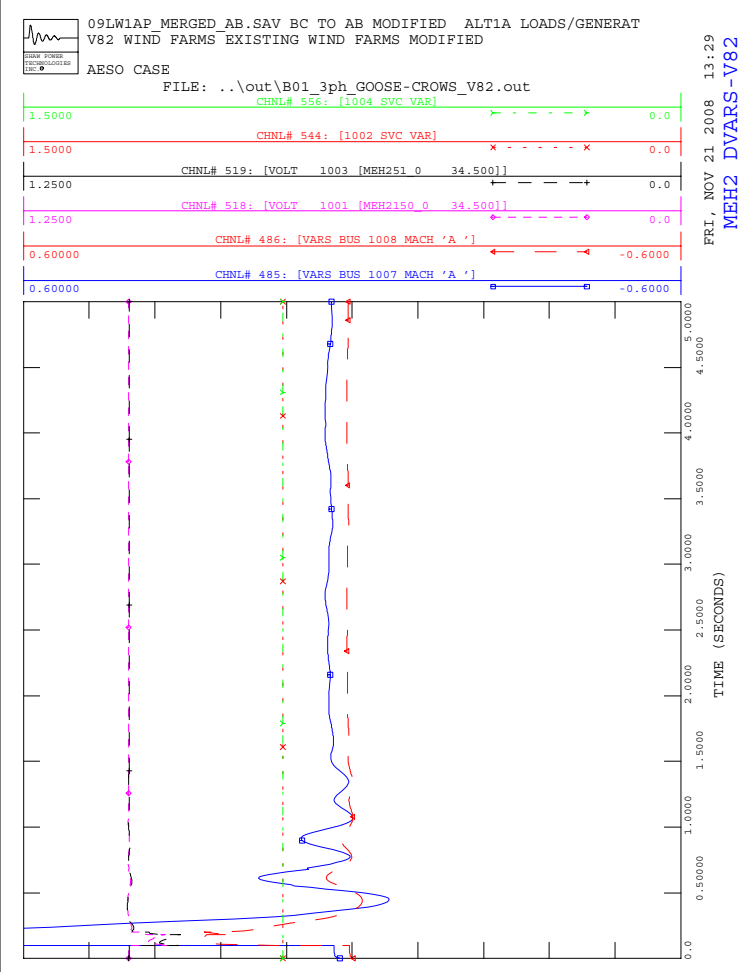
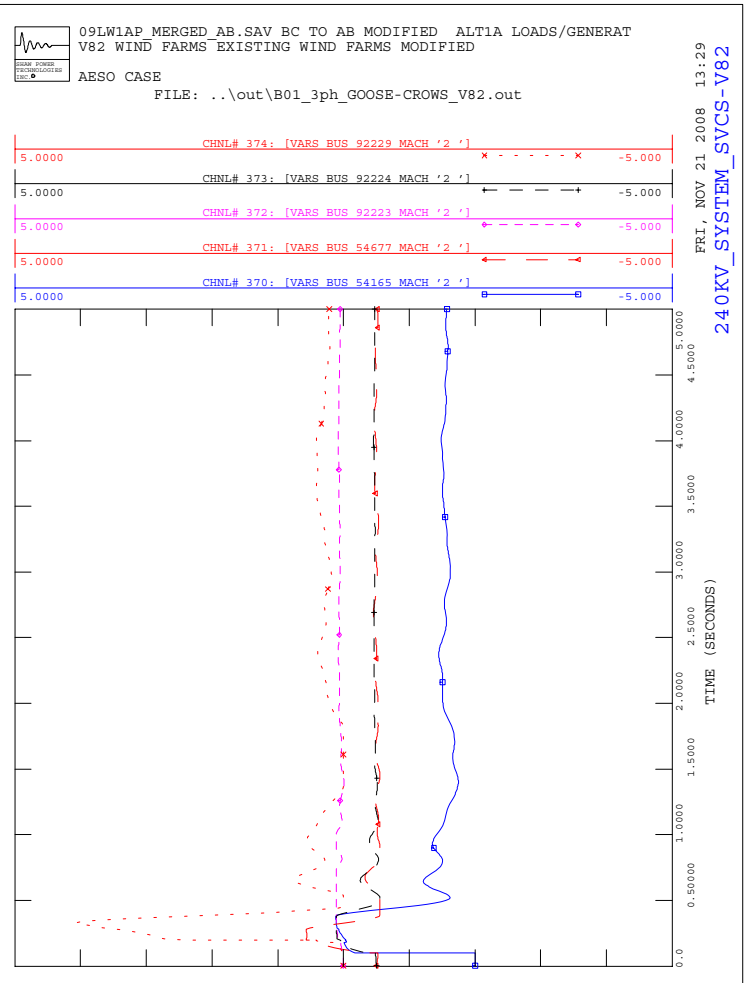
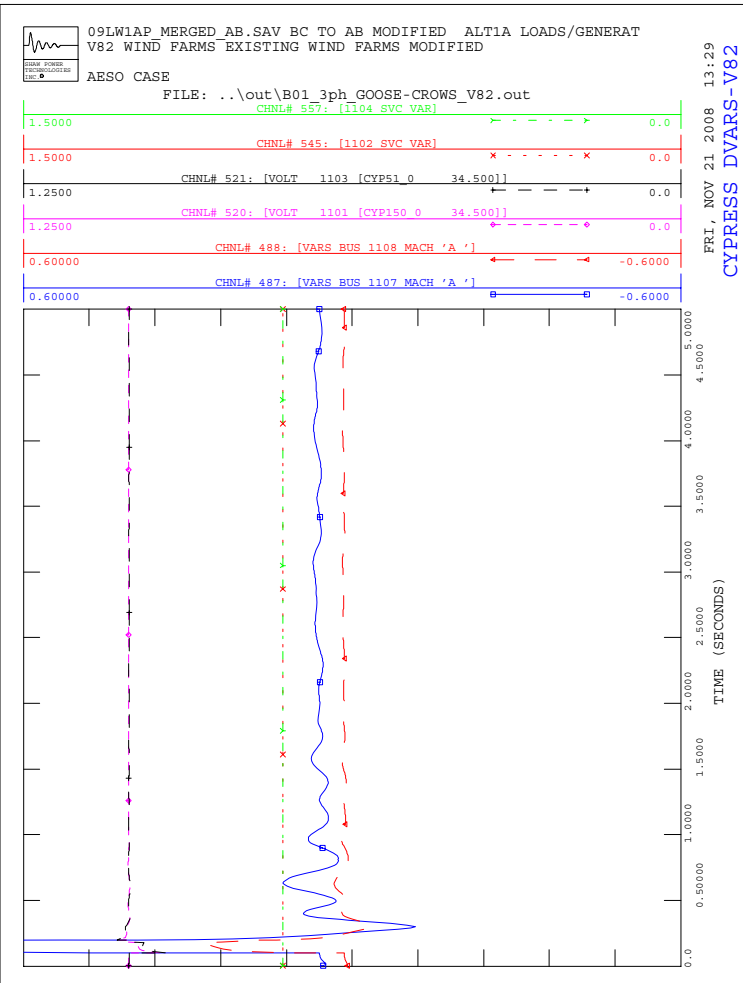
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\B01_3ph_GOOSE-CROWS_V82.out



FRI, NOV 21 2008 13:29
 SUB_A2 DVARS-V82

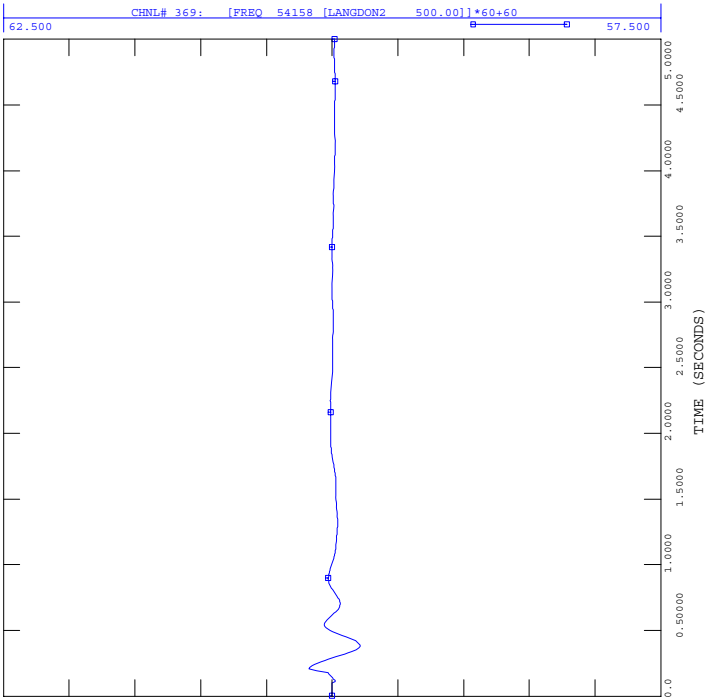






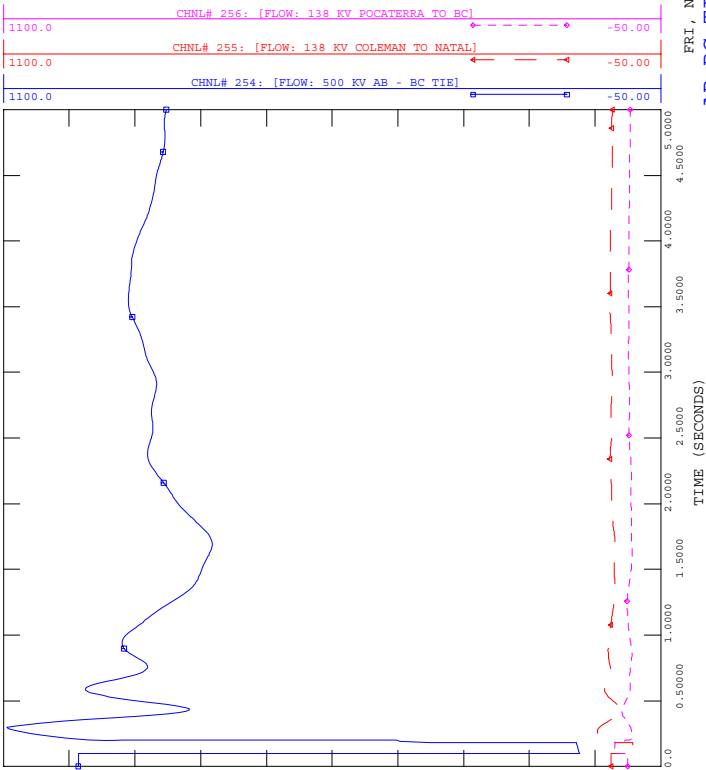
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B01_3ph_GOOSE-CROWS_V82.out

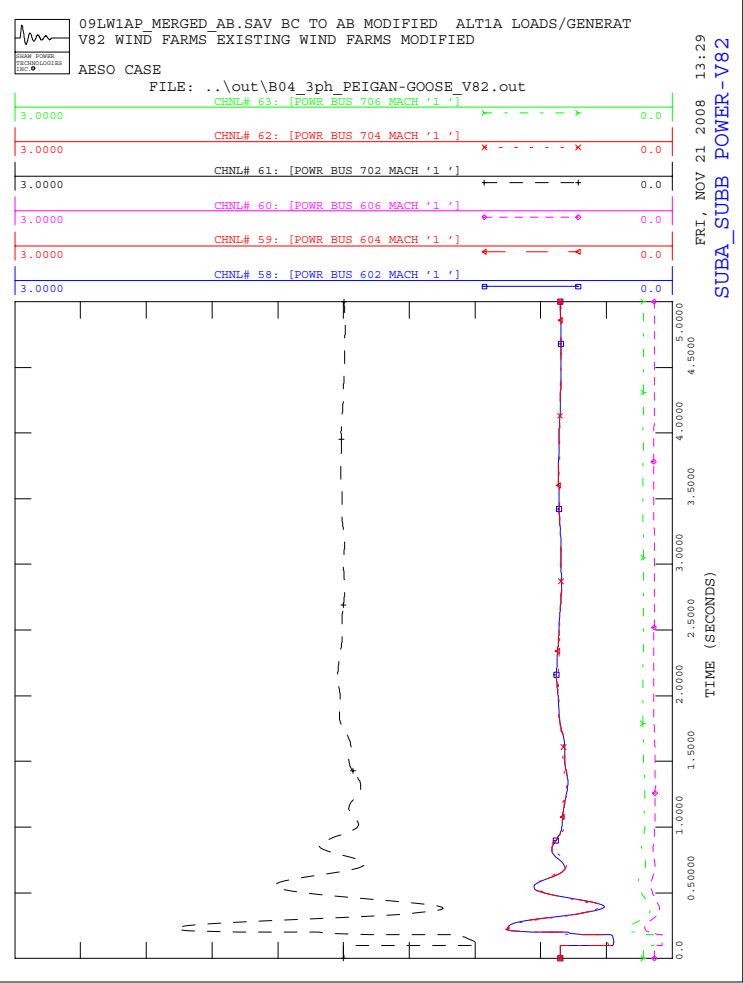
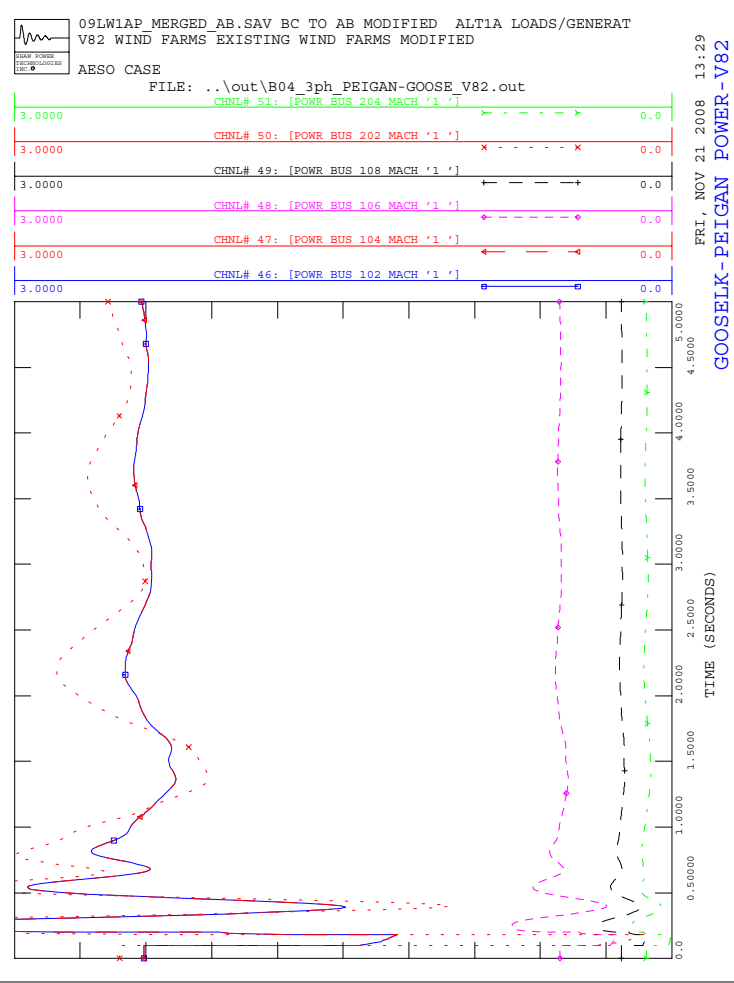
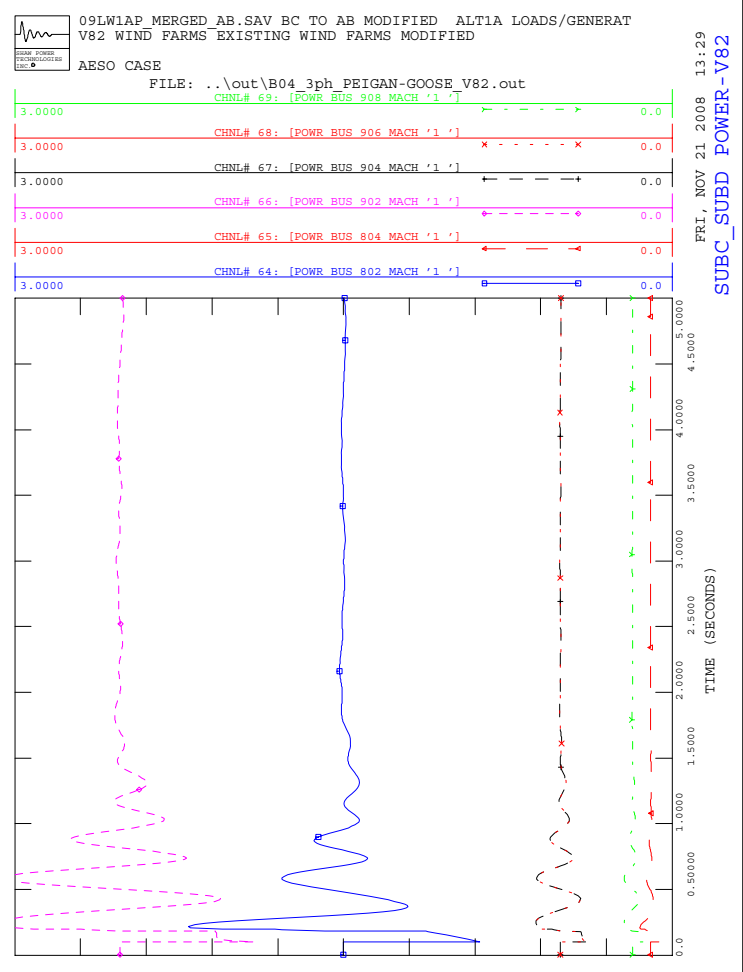
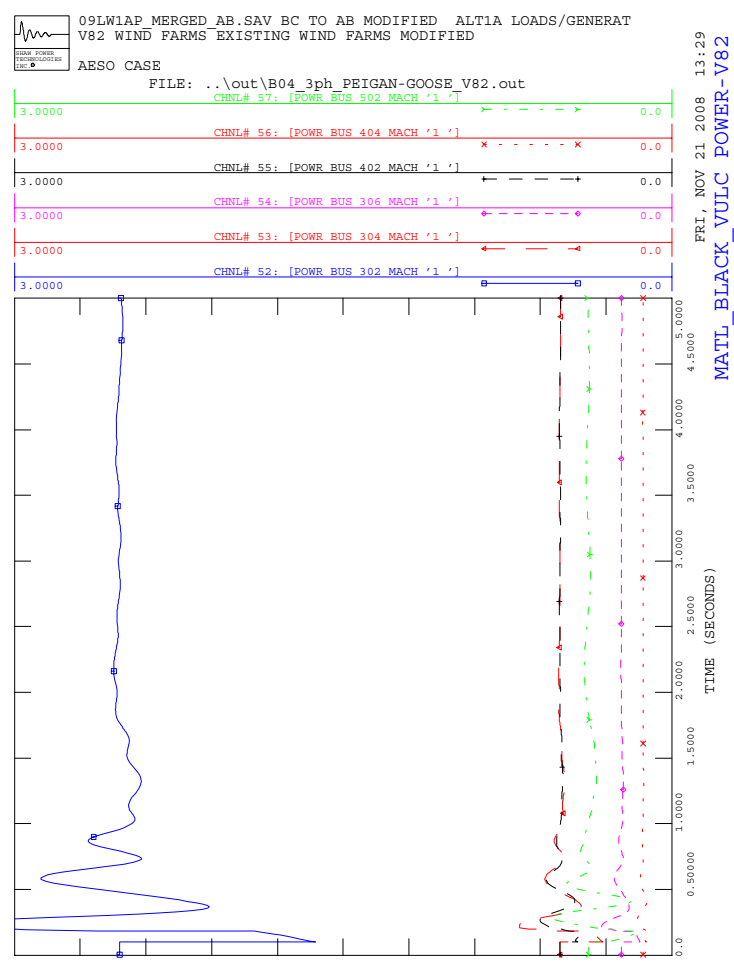
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LANGDON_FRQ-V82

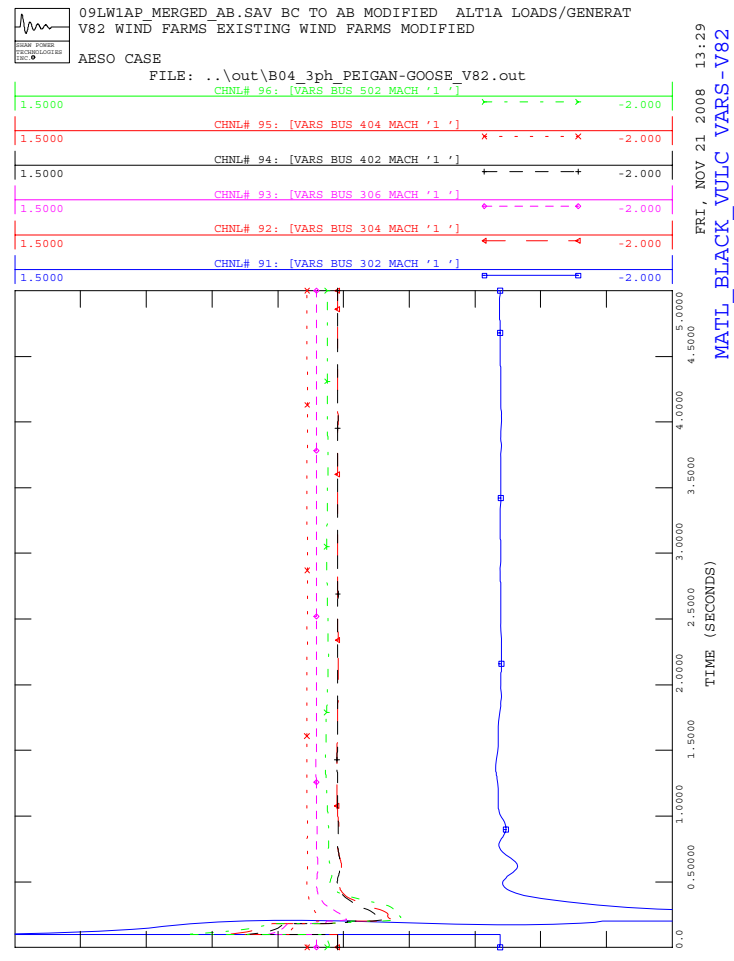
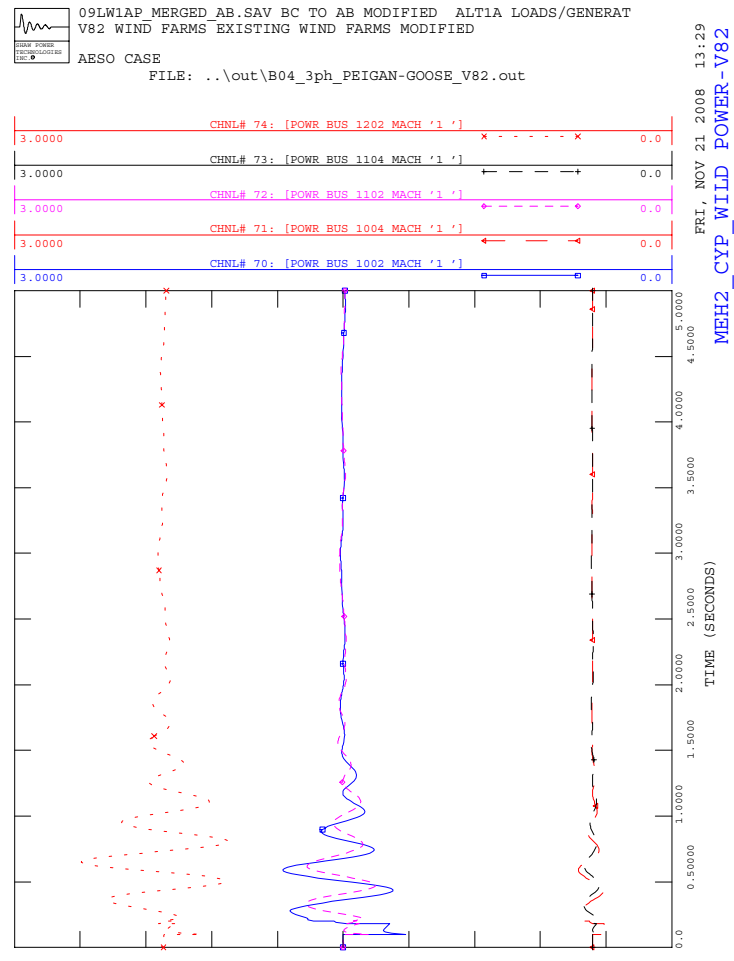
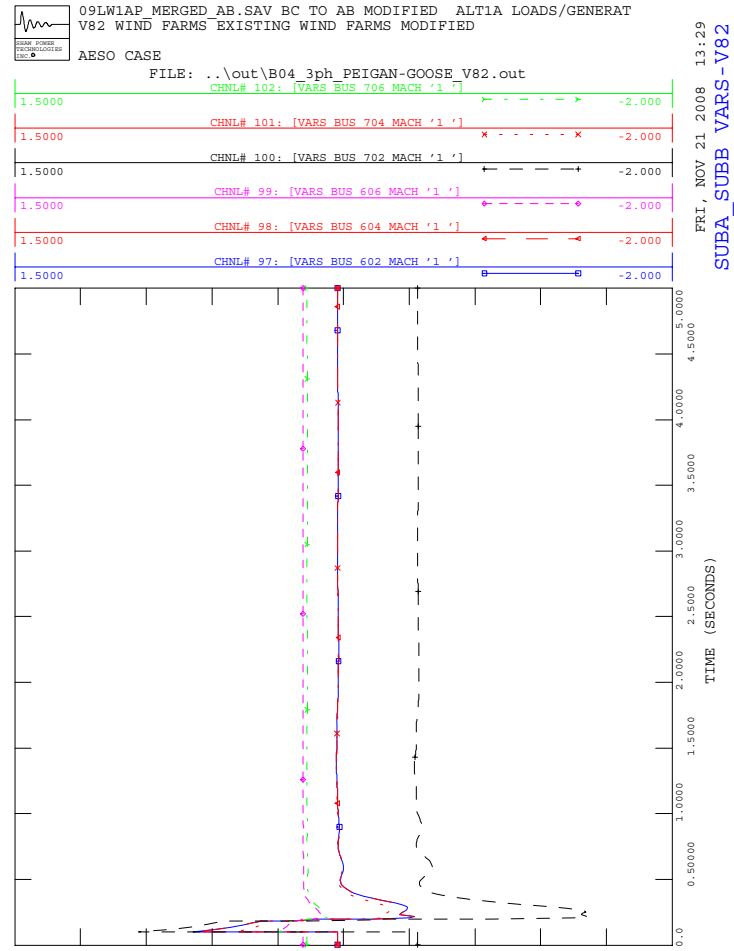
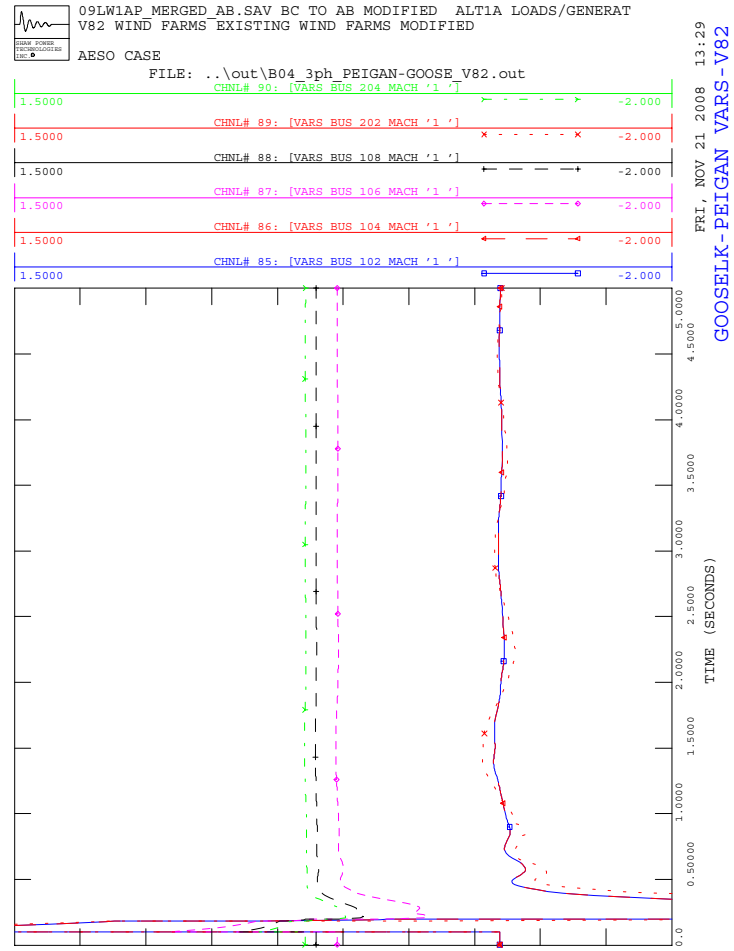


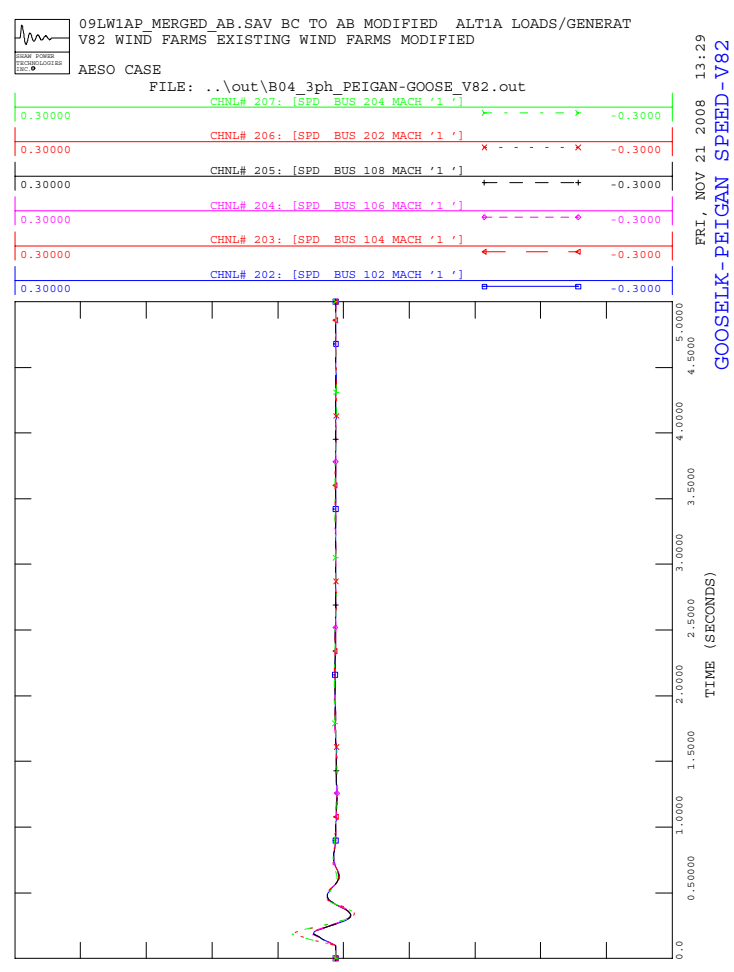
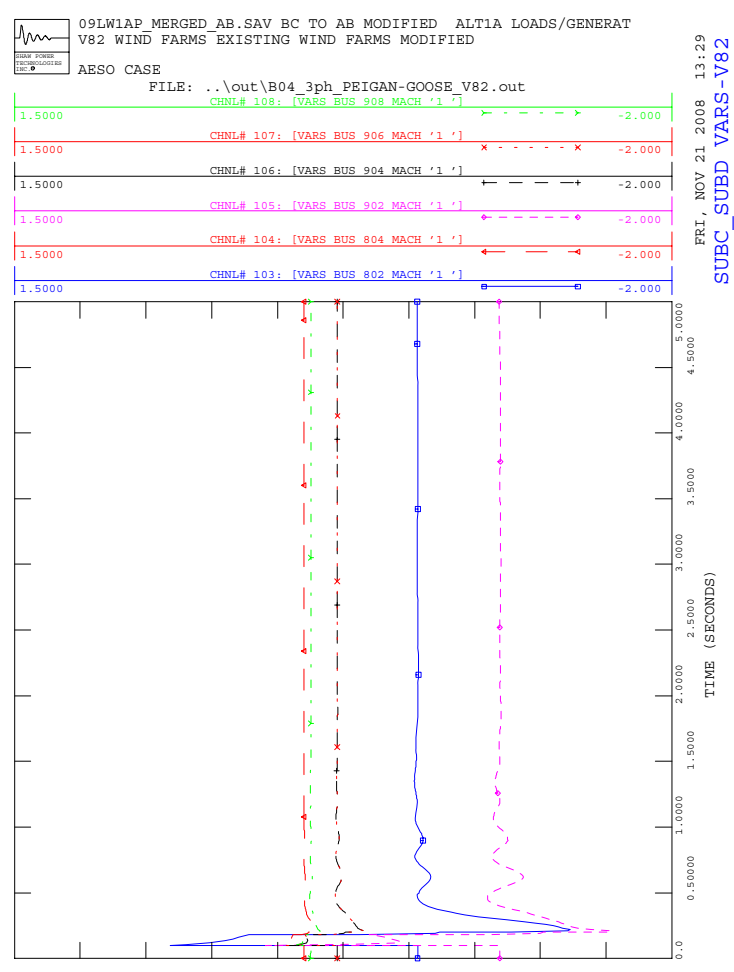
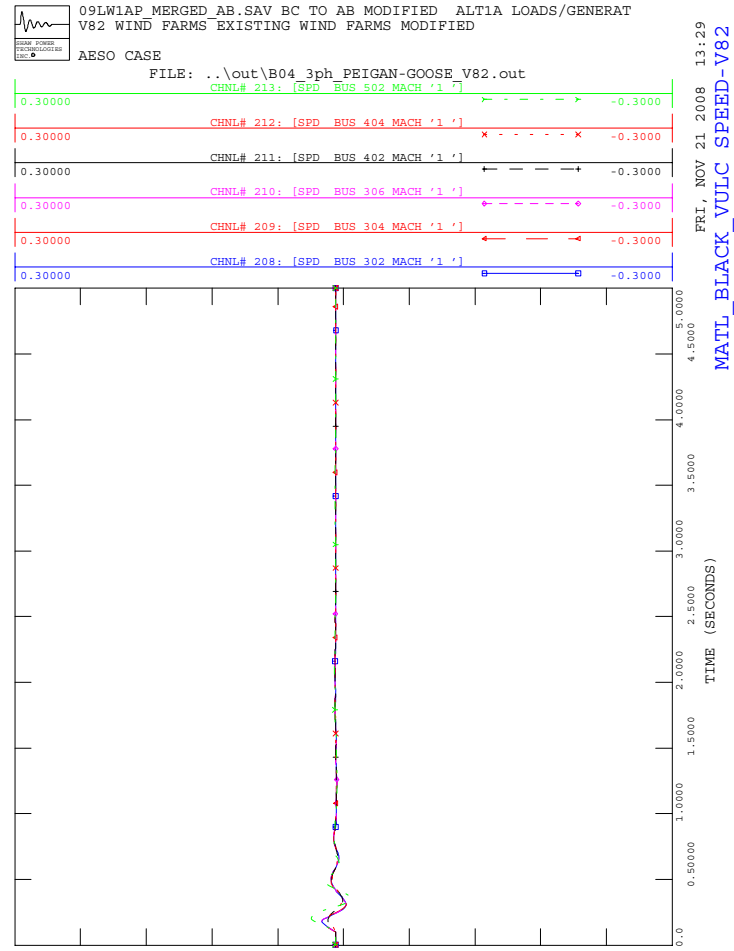
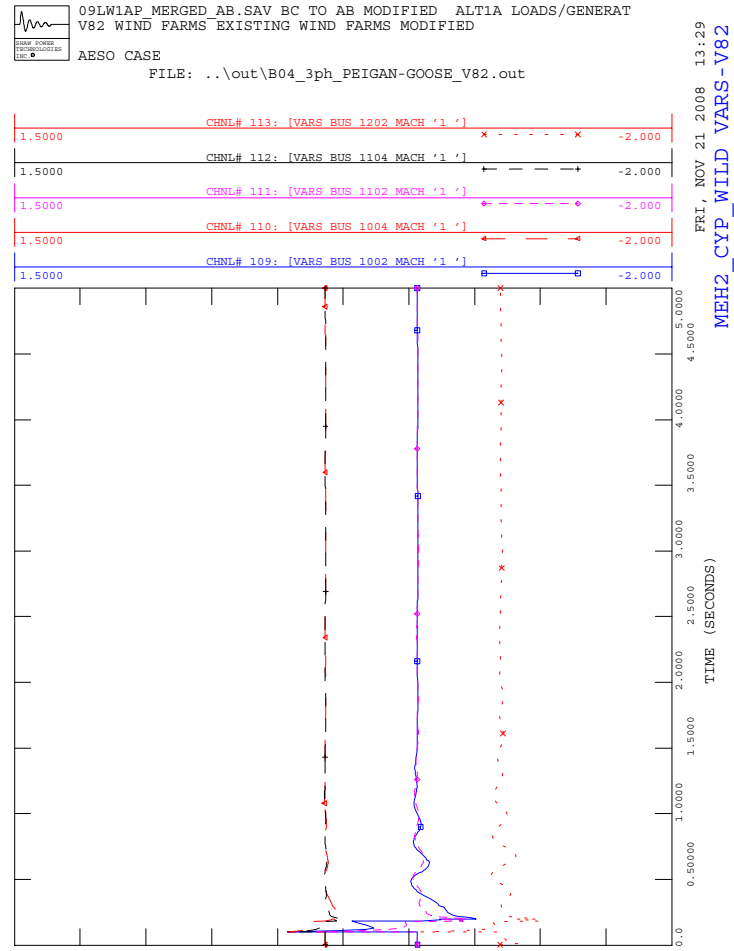
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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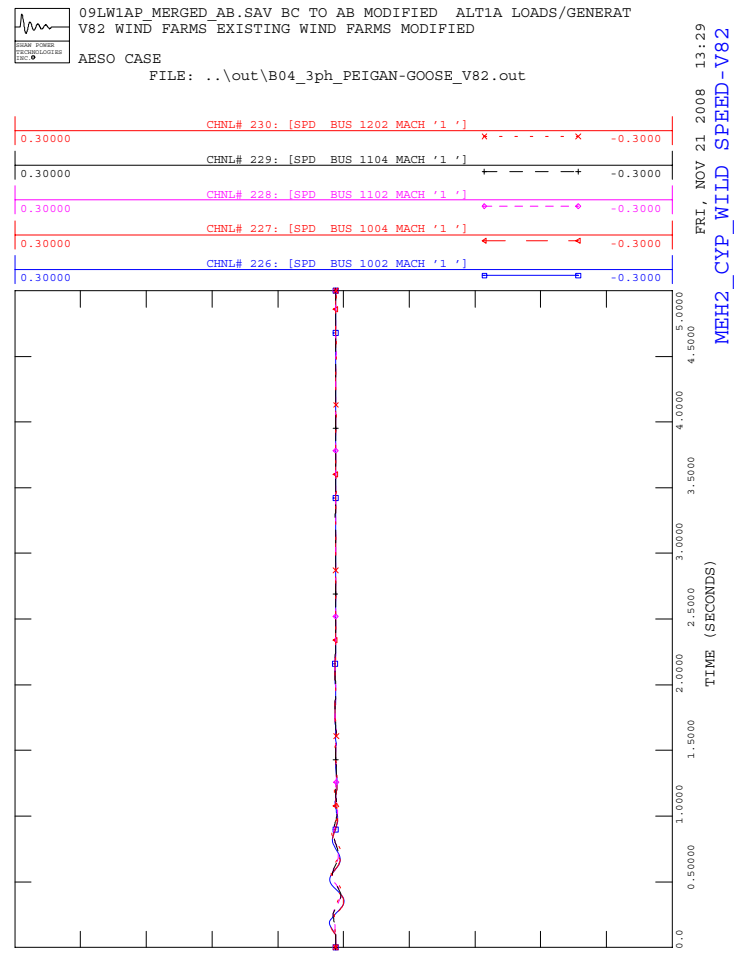
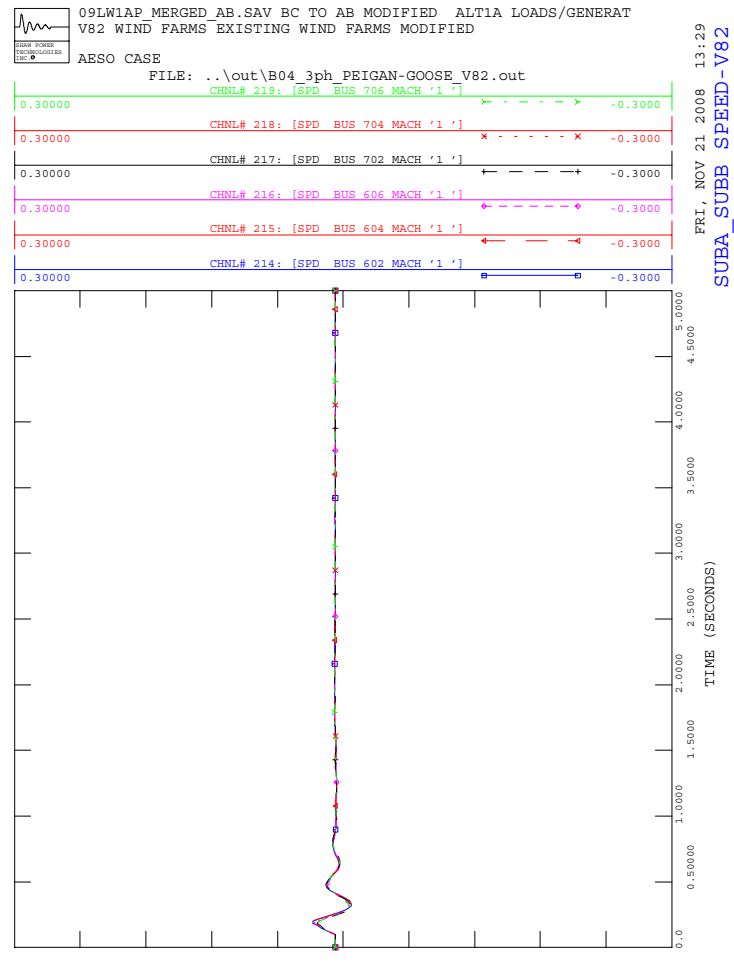
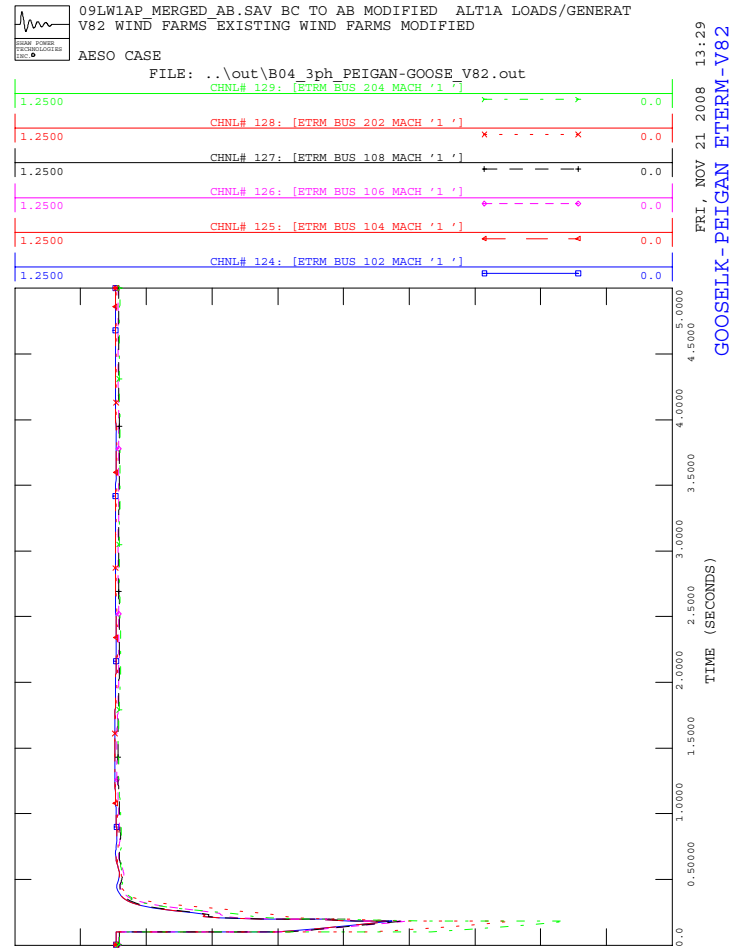
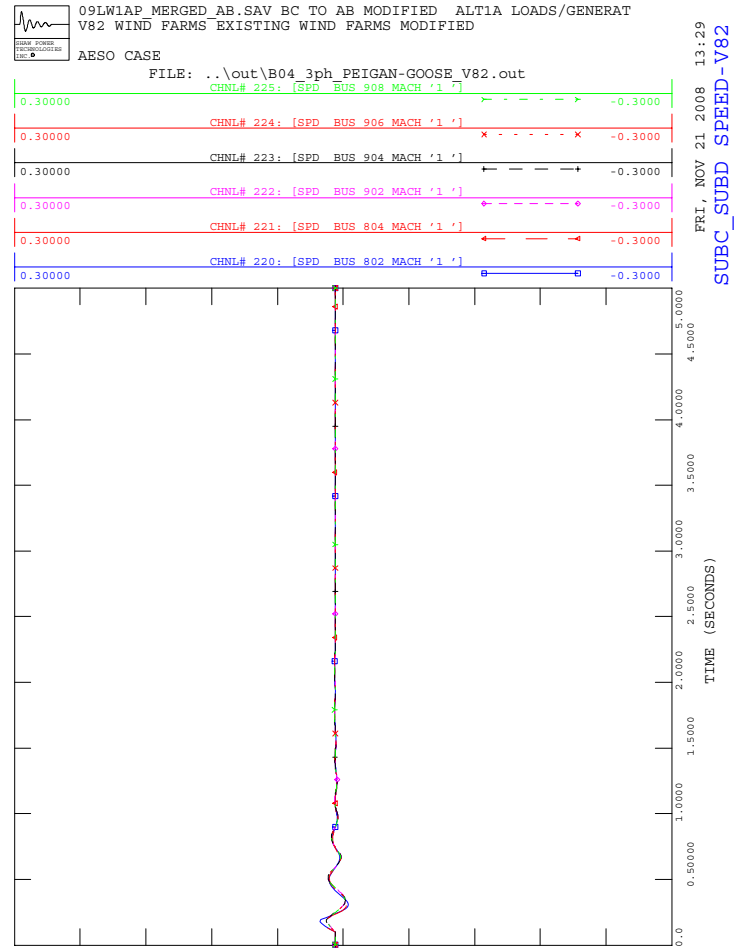
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AB_BC_TIE_FLOWS-V82

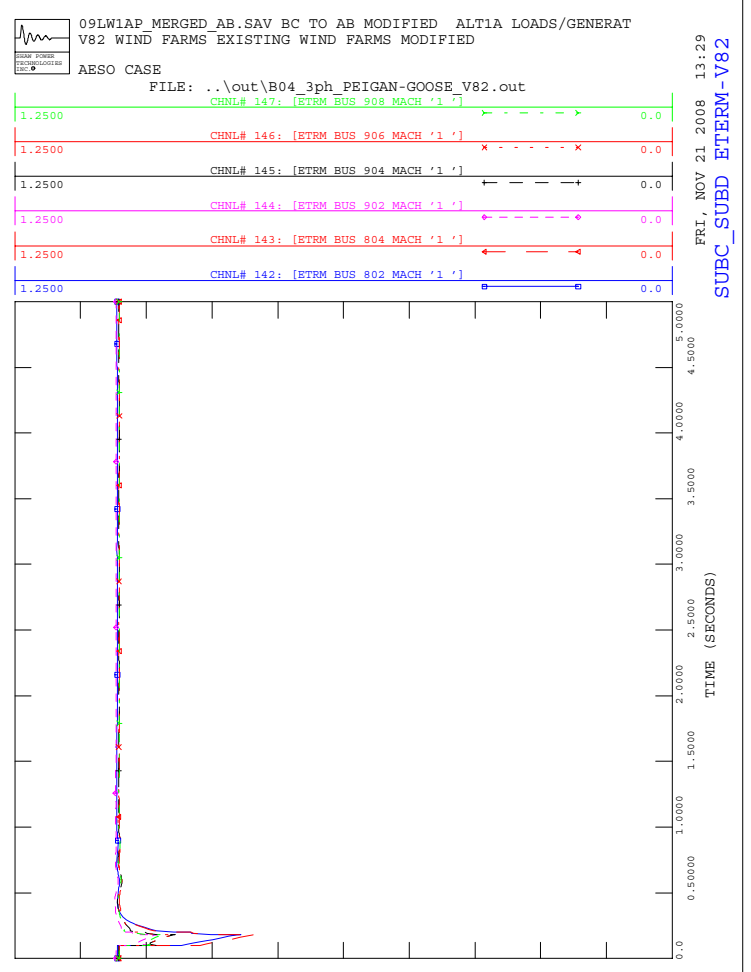
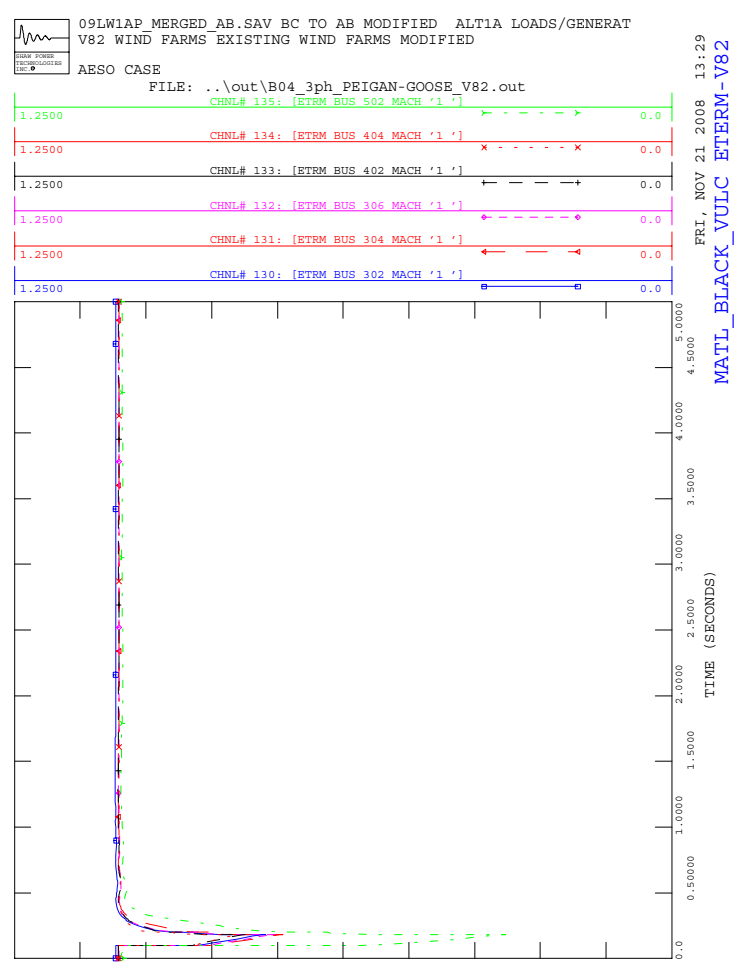
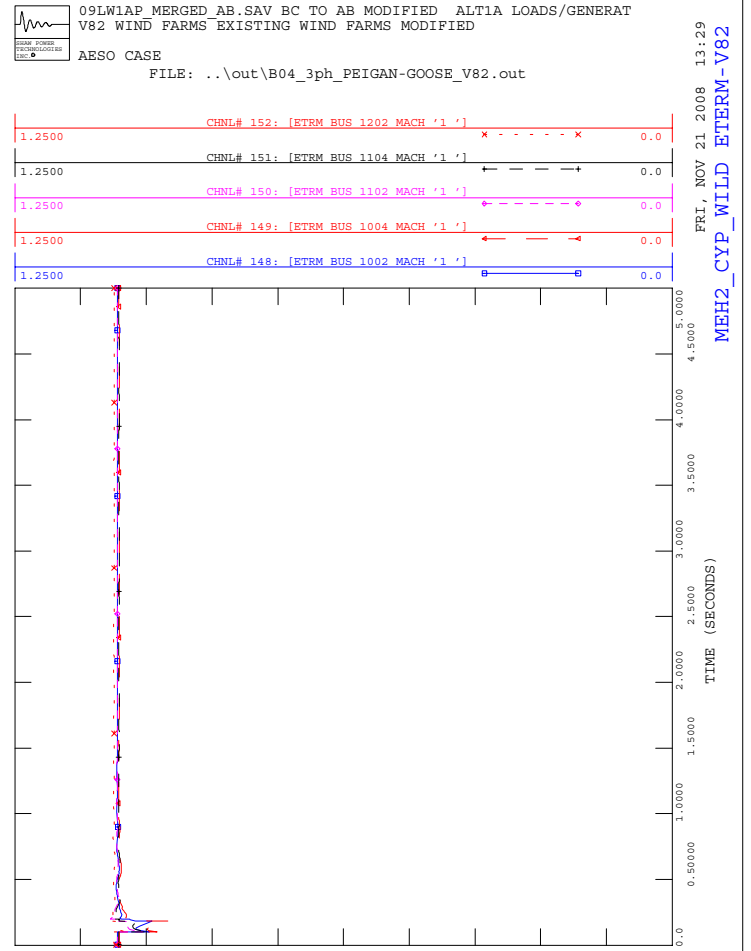
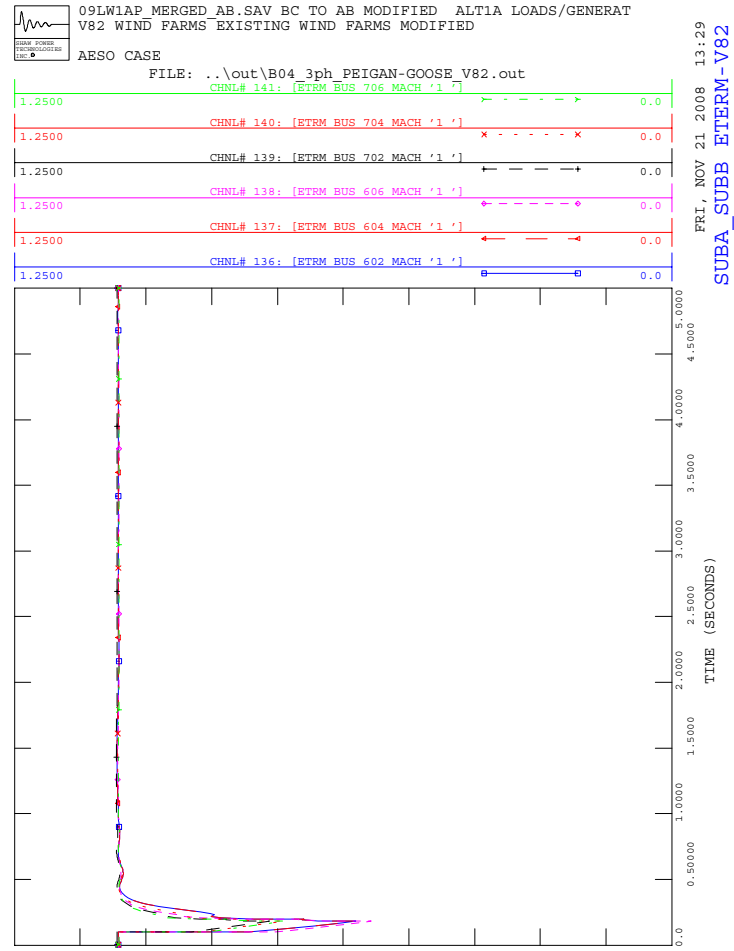


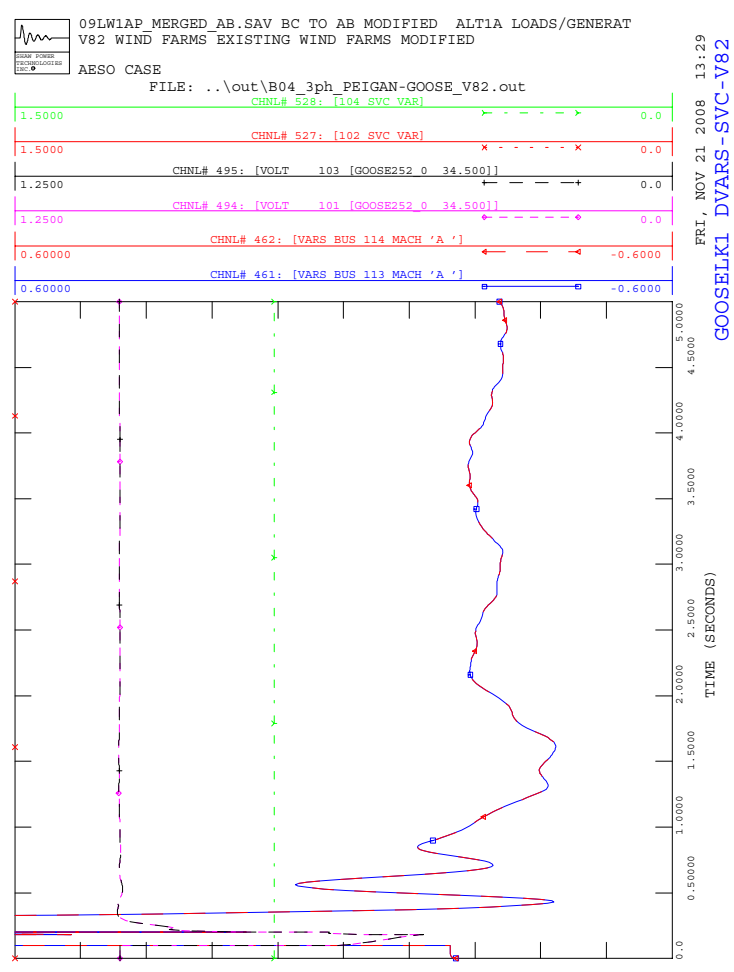
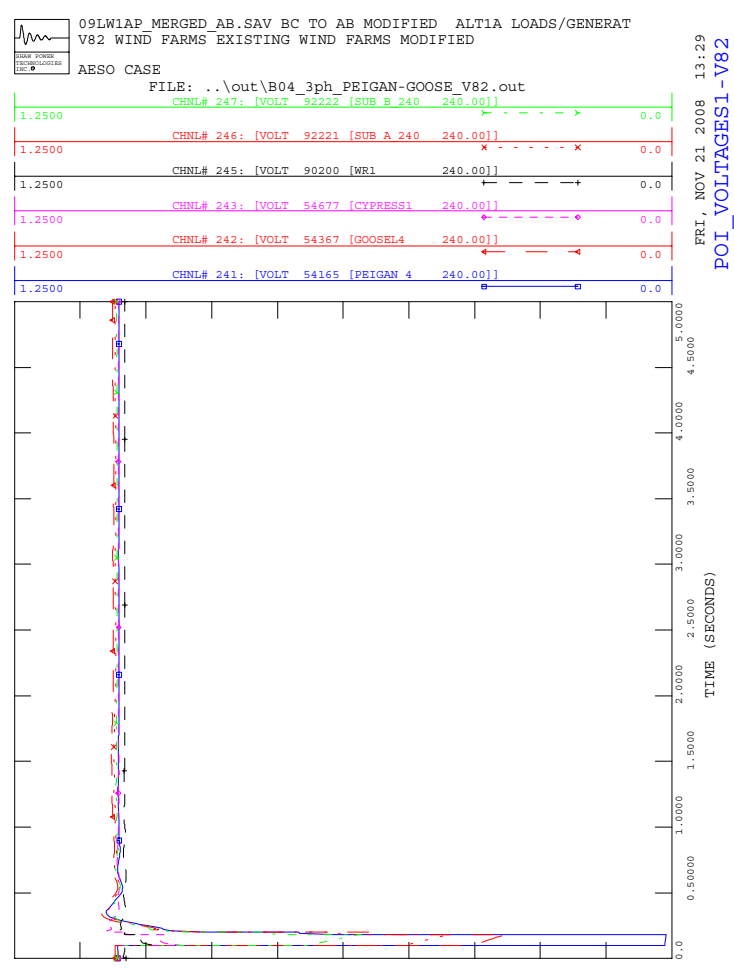
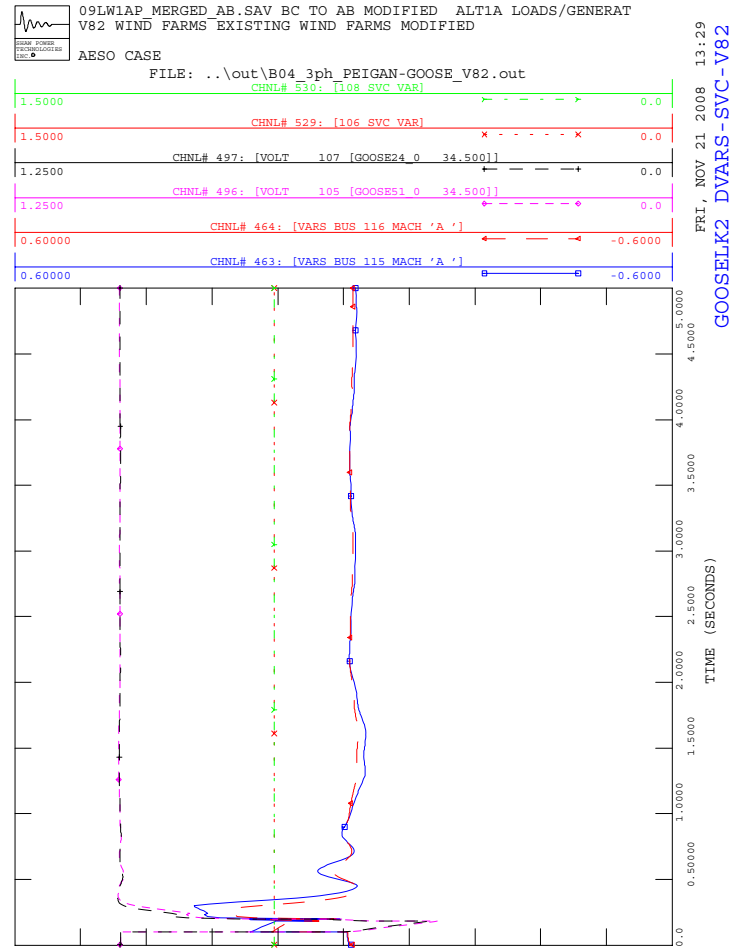
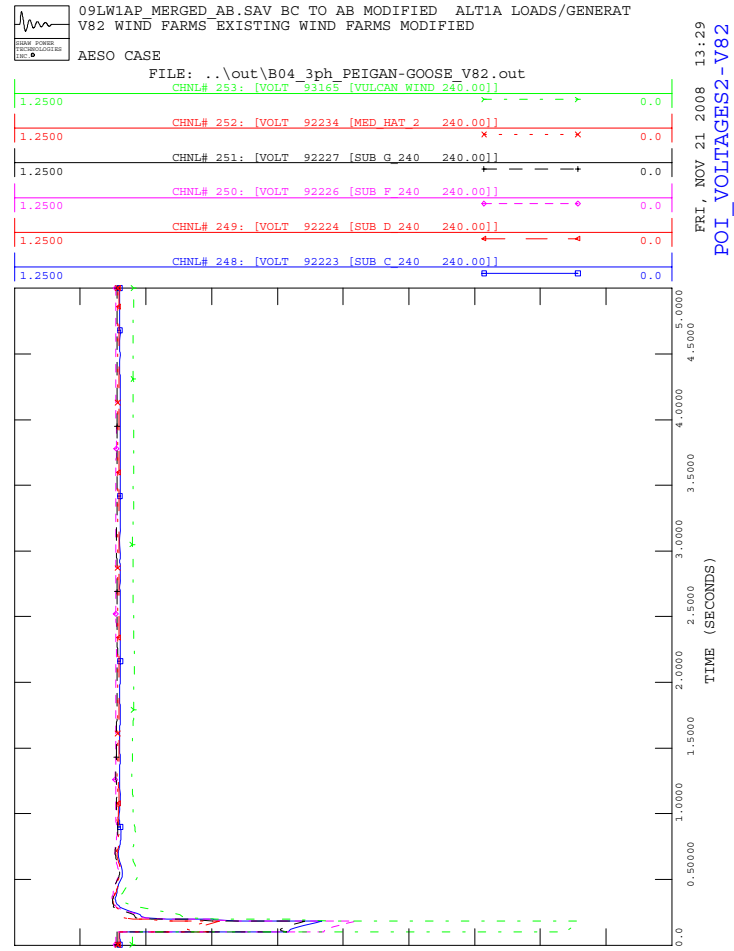


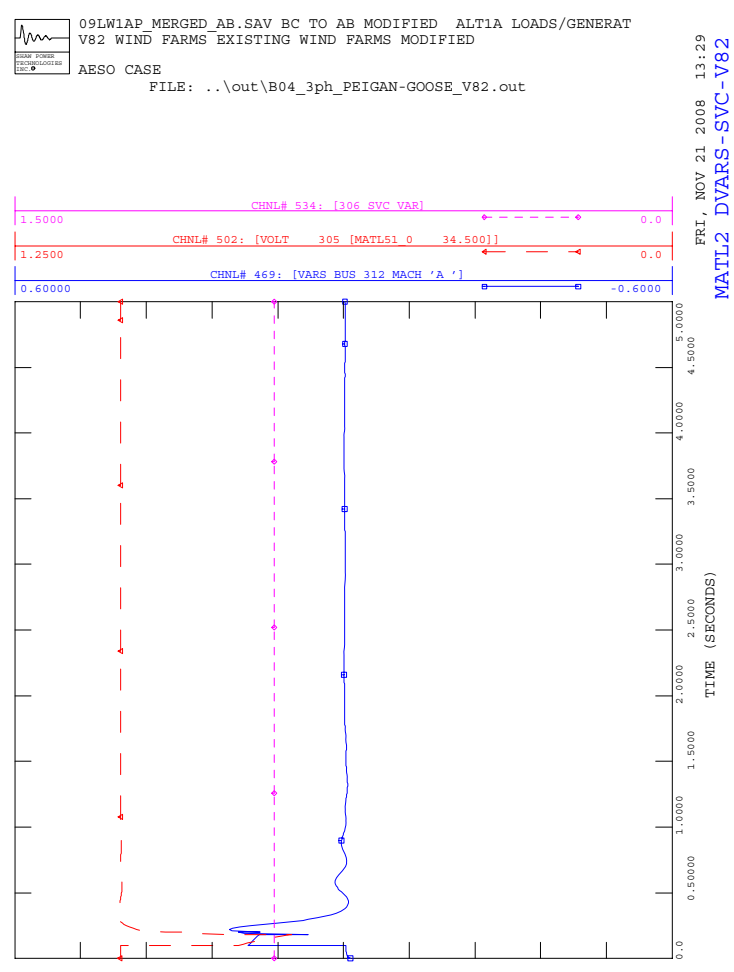
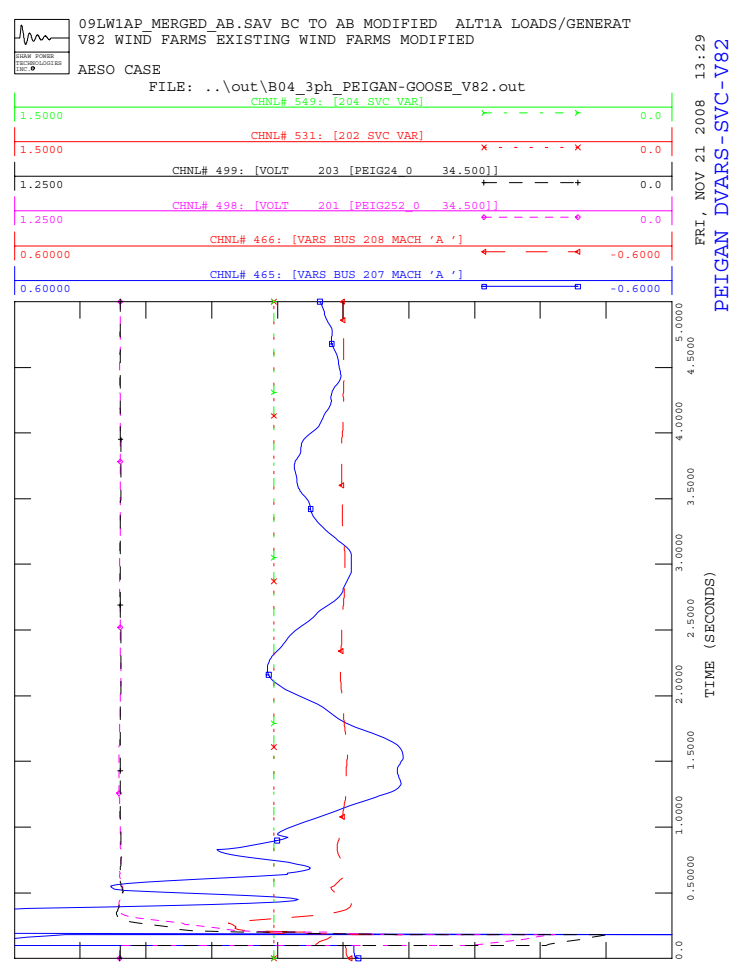
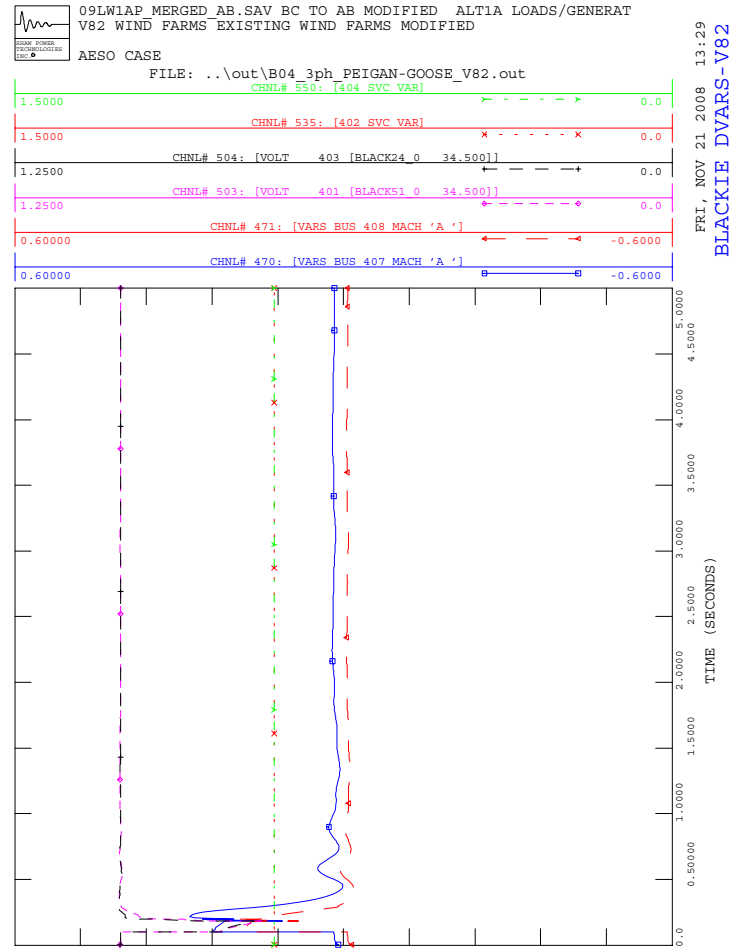
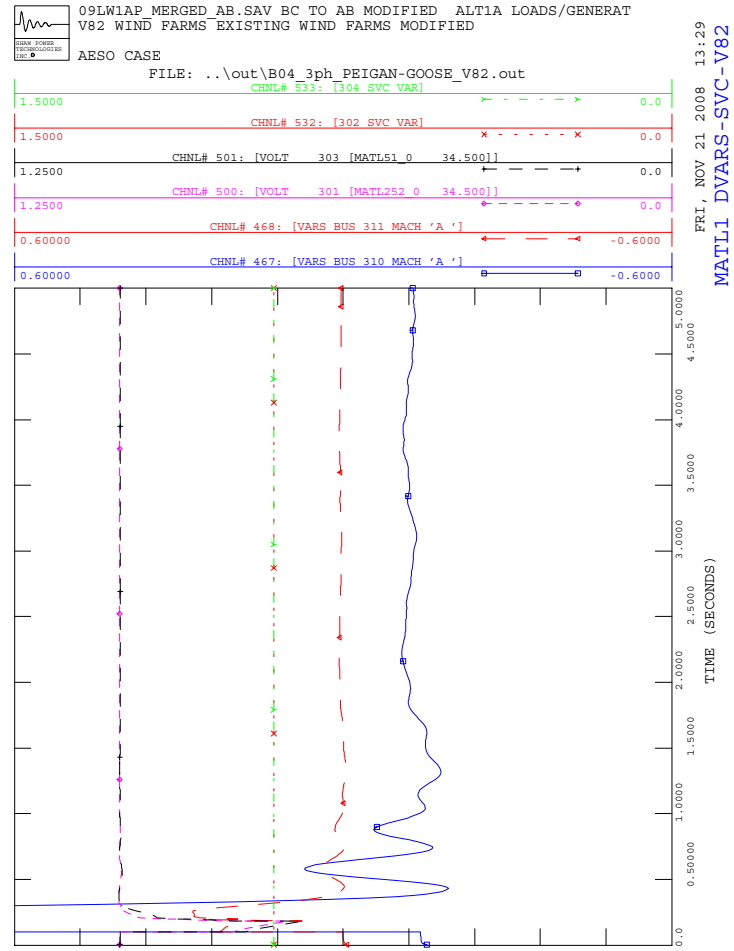


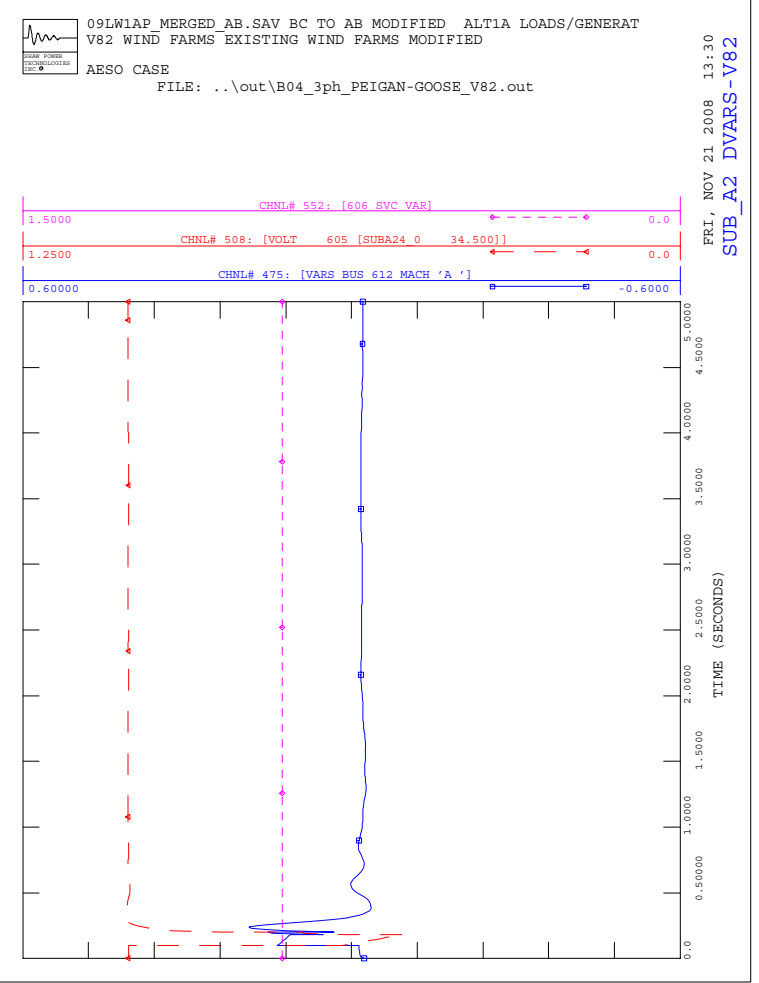
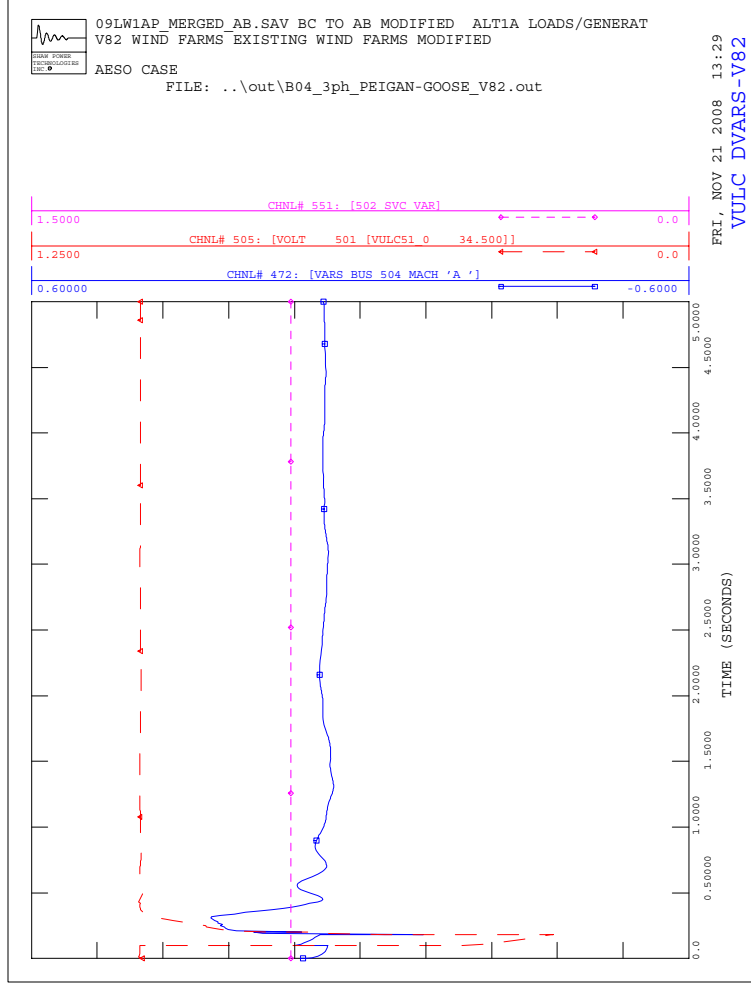
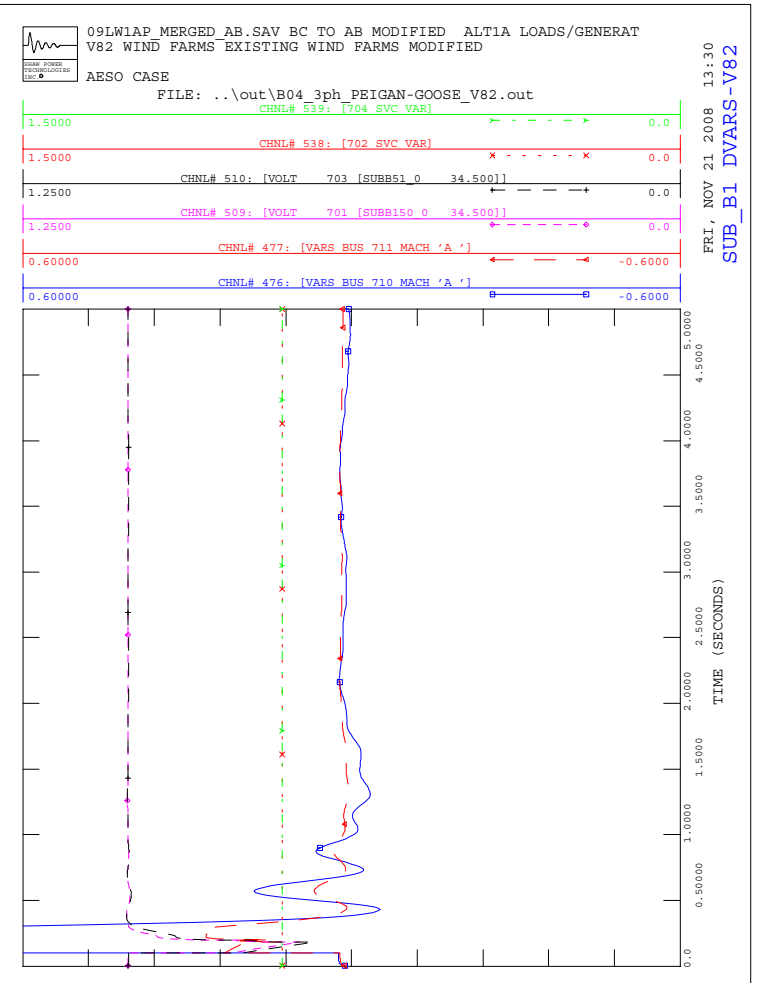
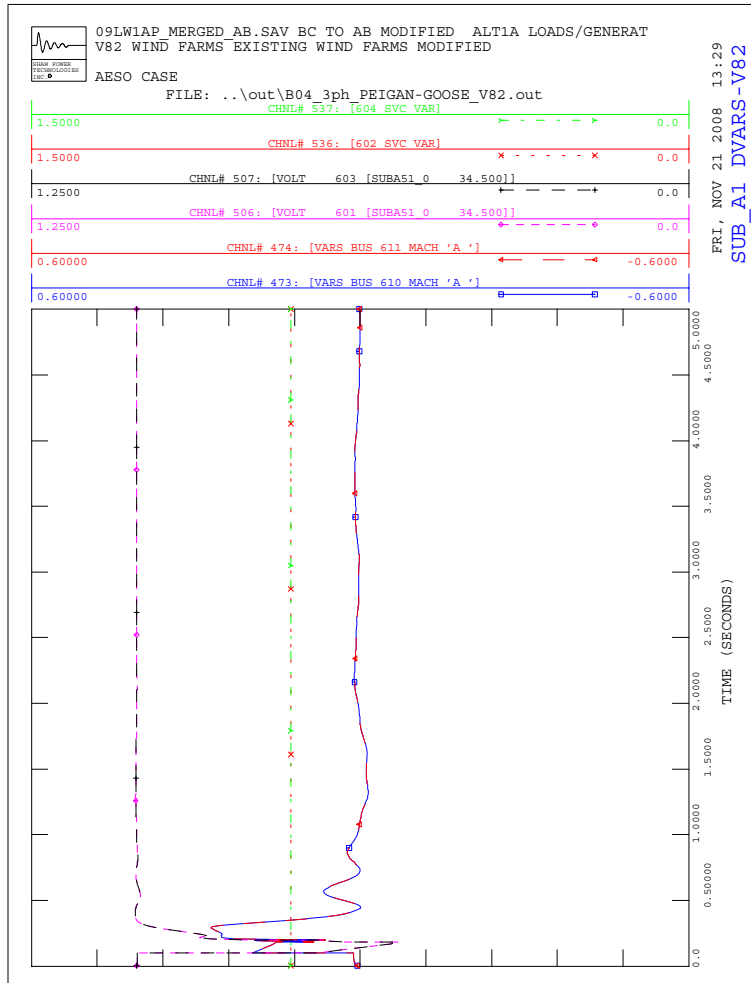


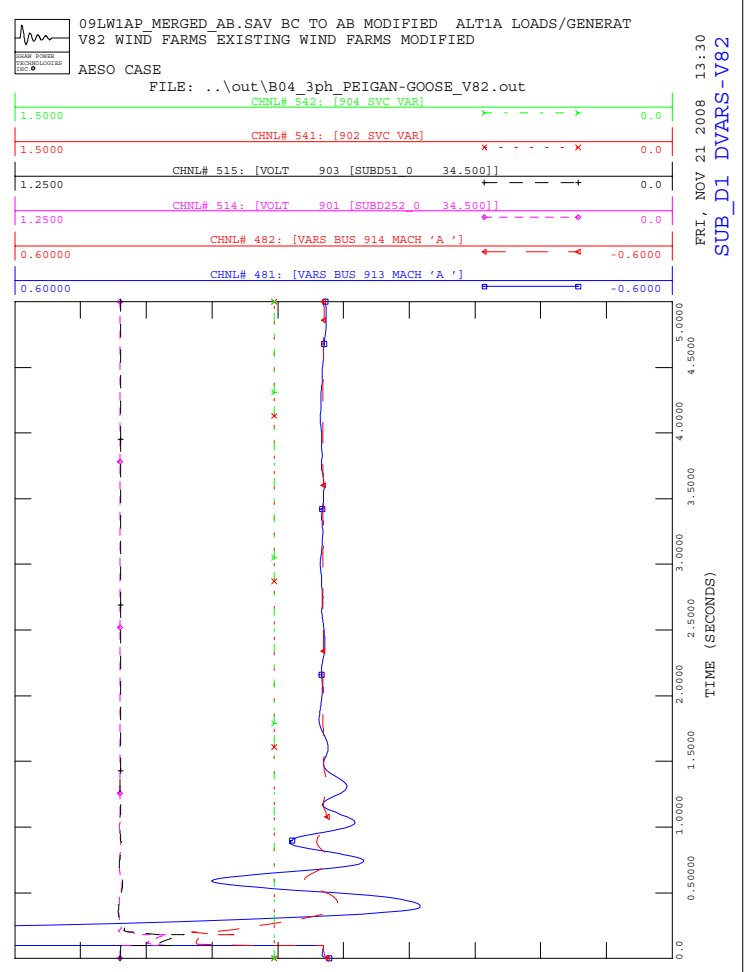
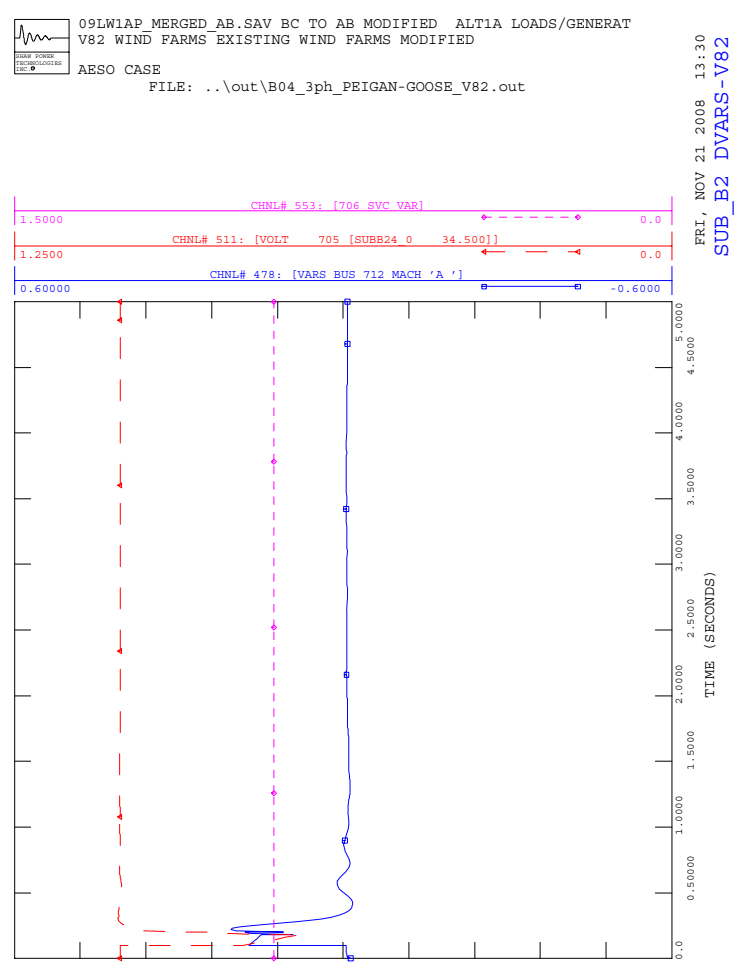
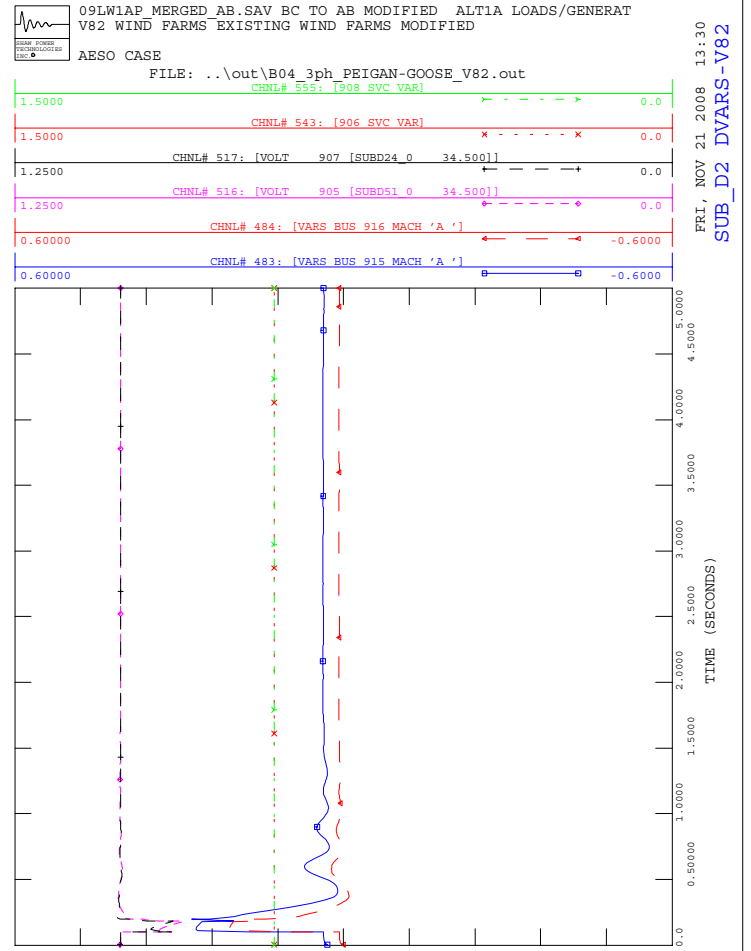
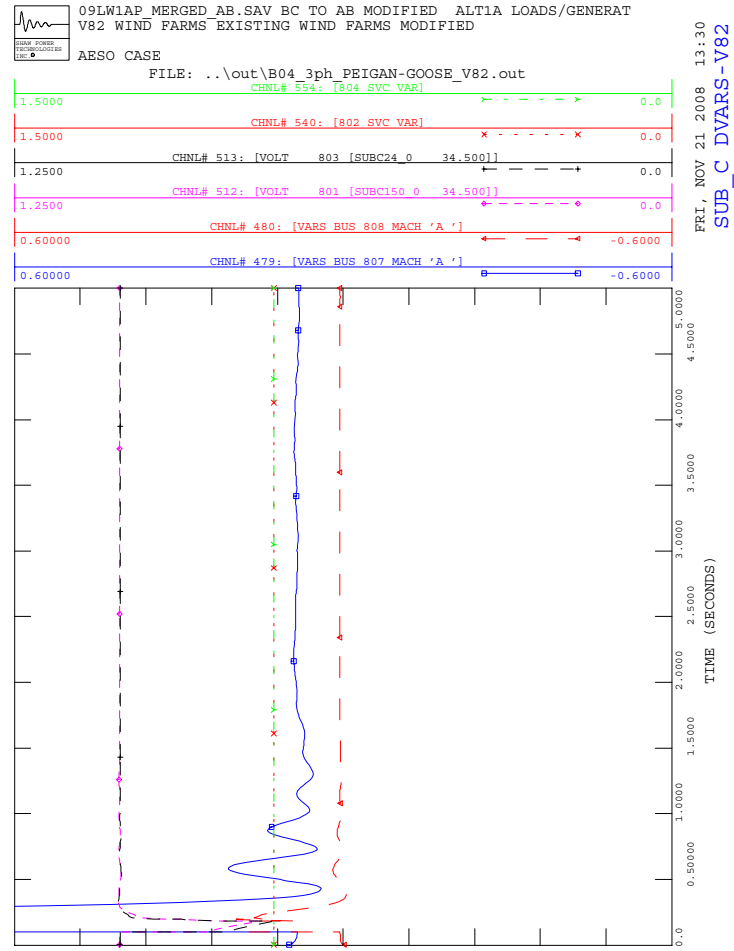


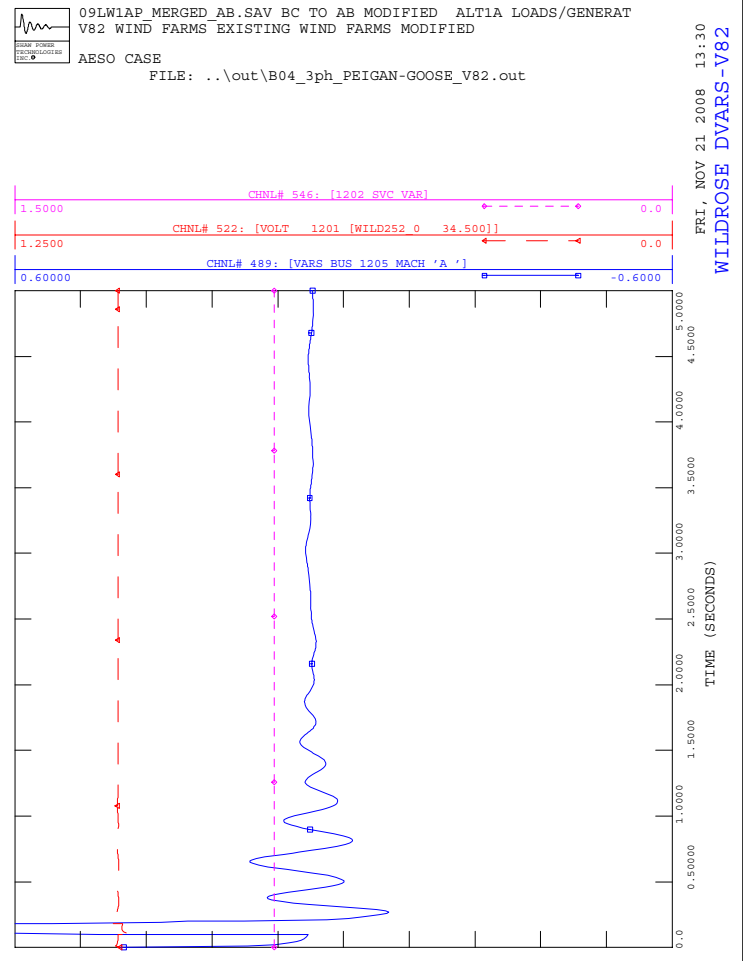
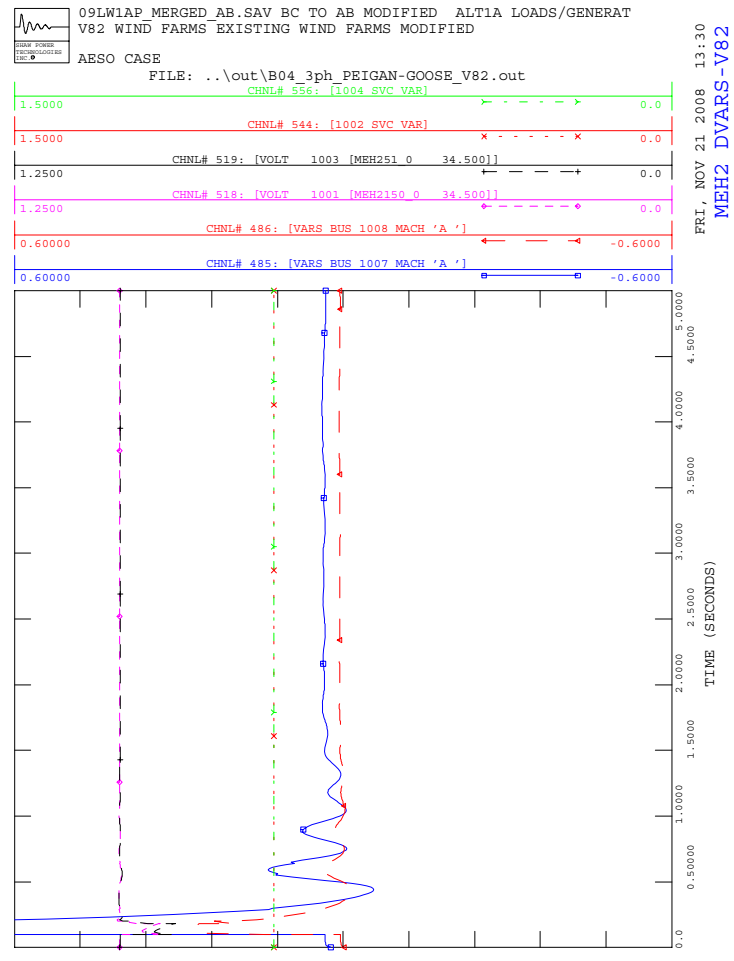
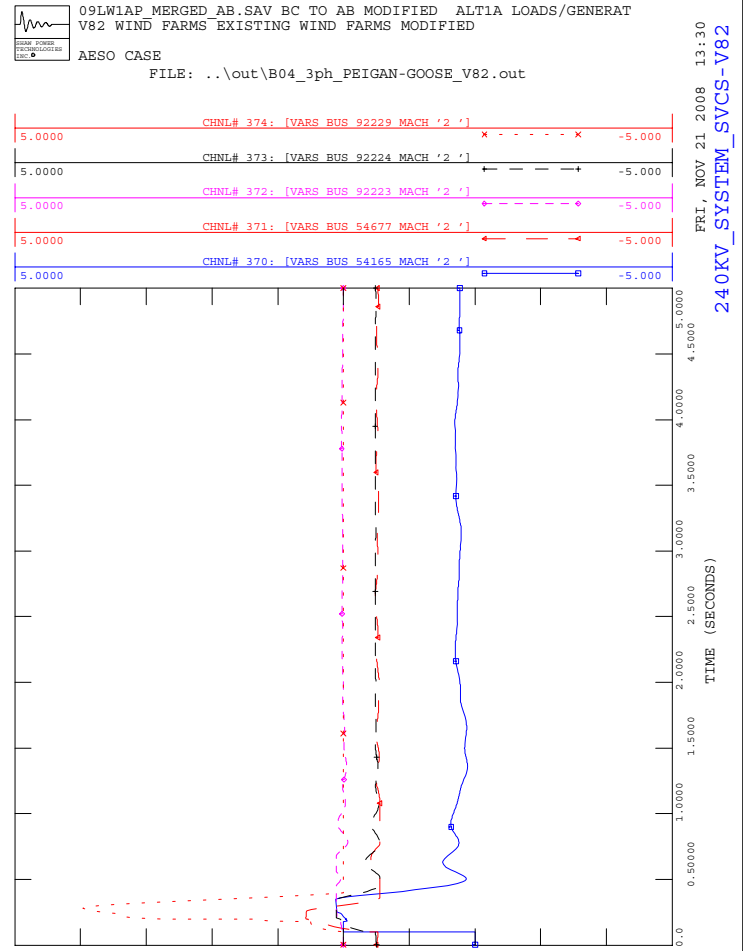
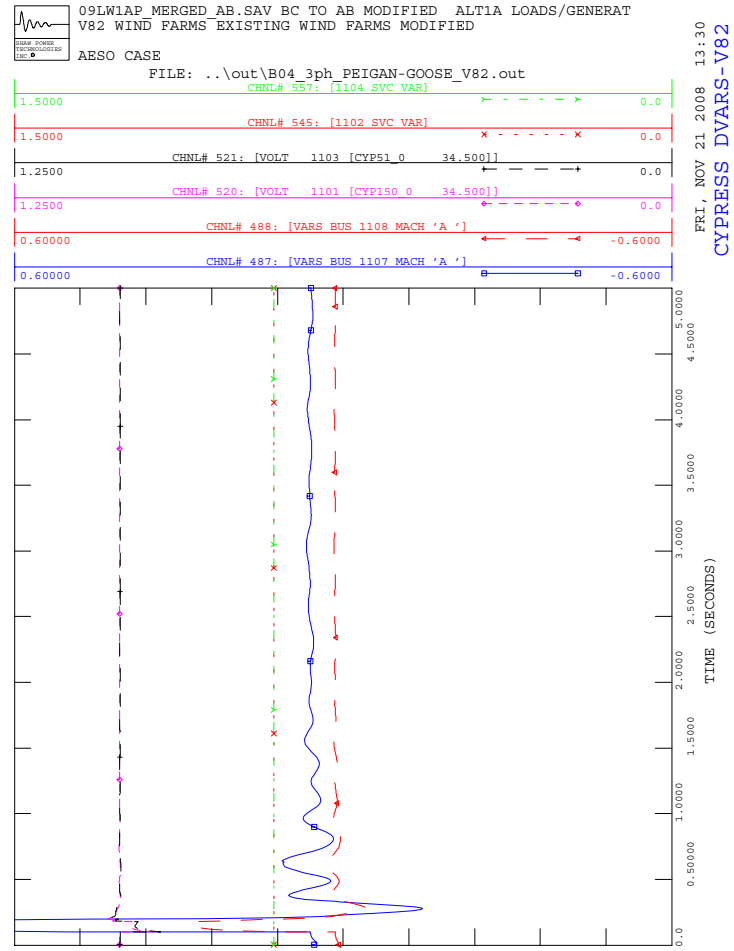








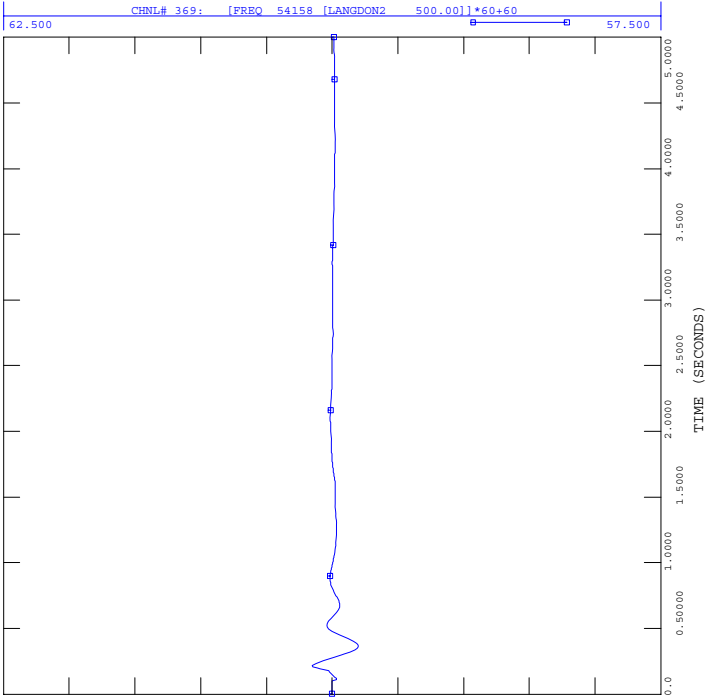






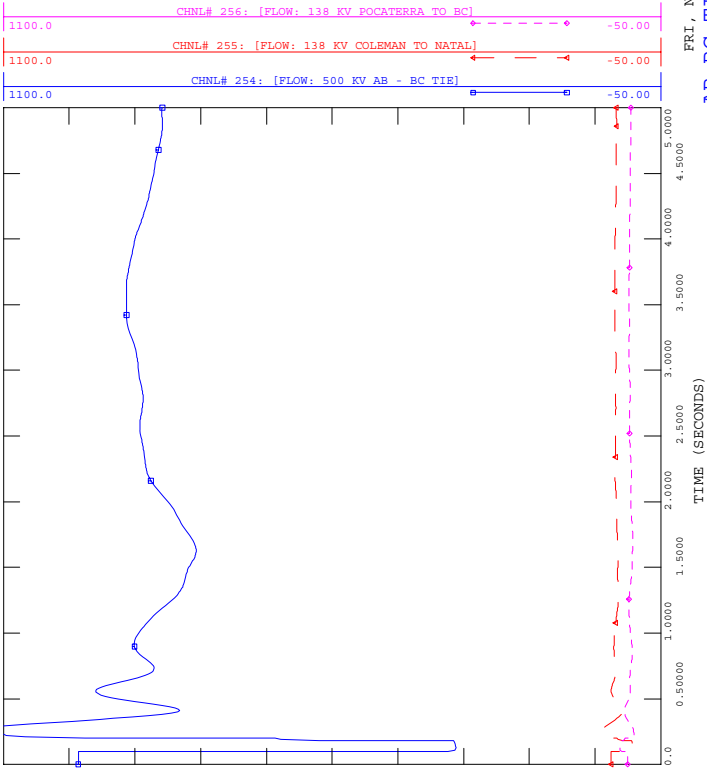
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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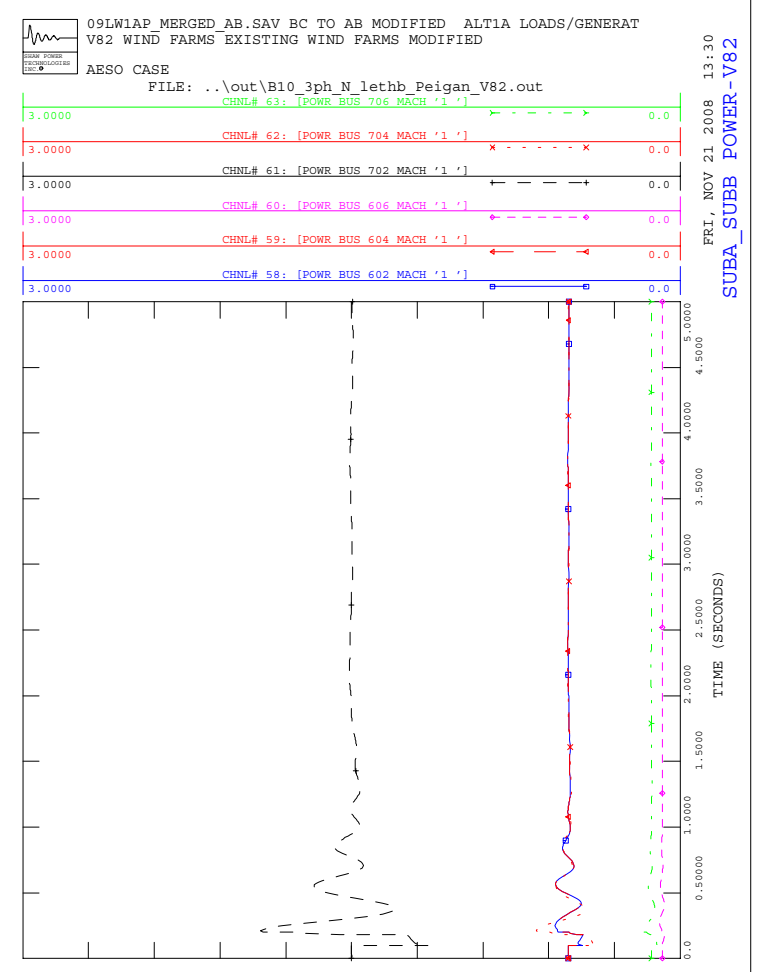
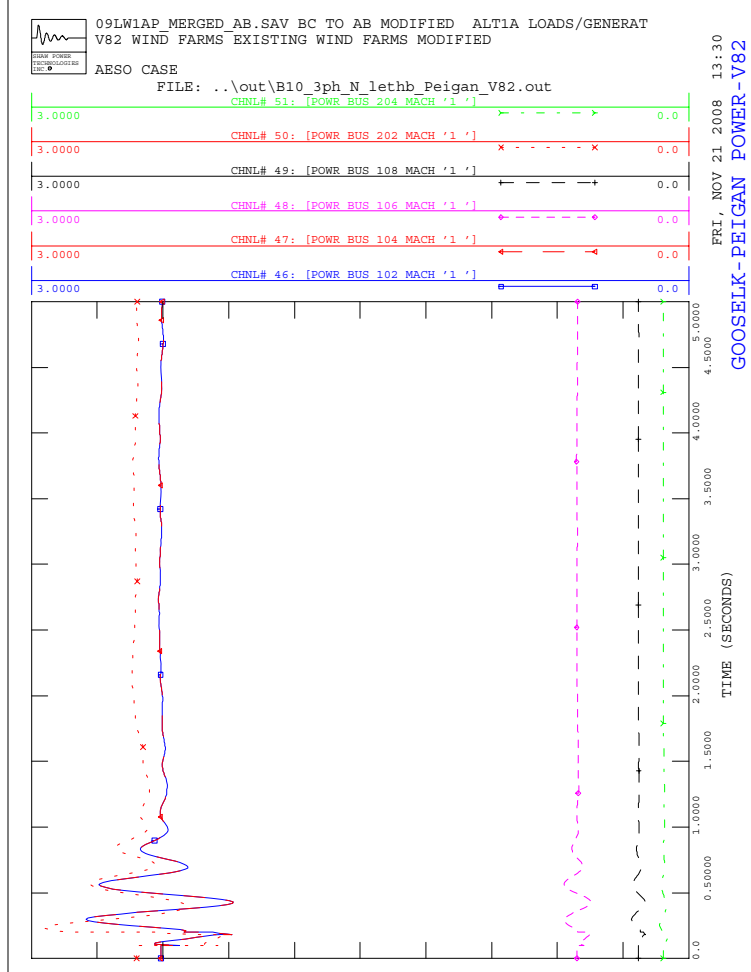
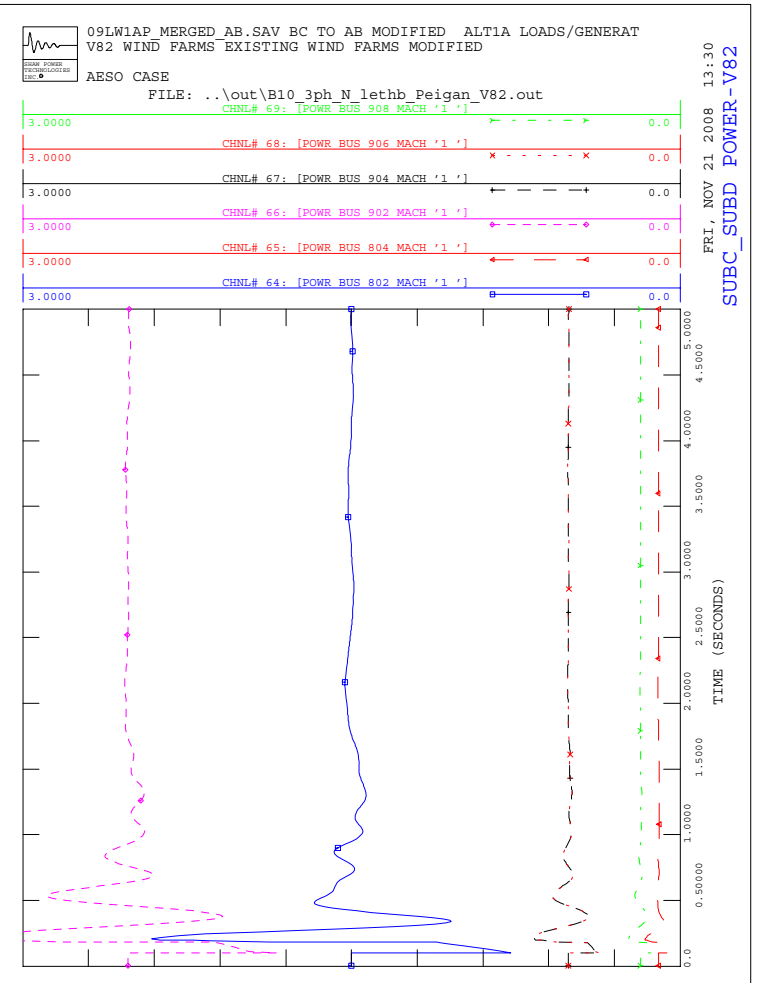
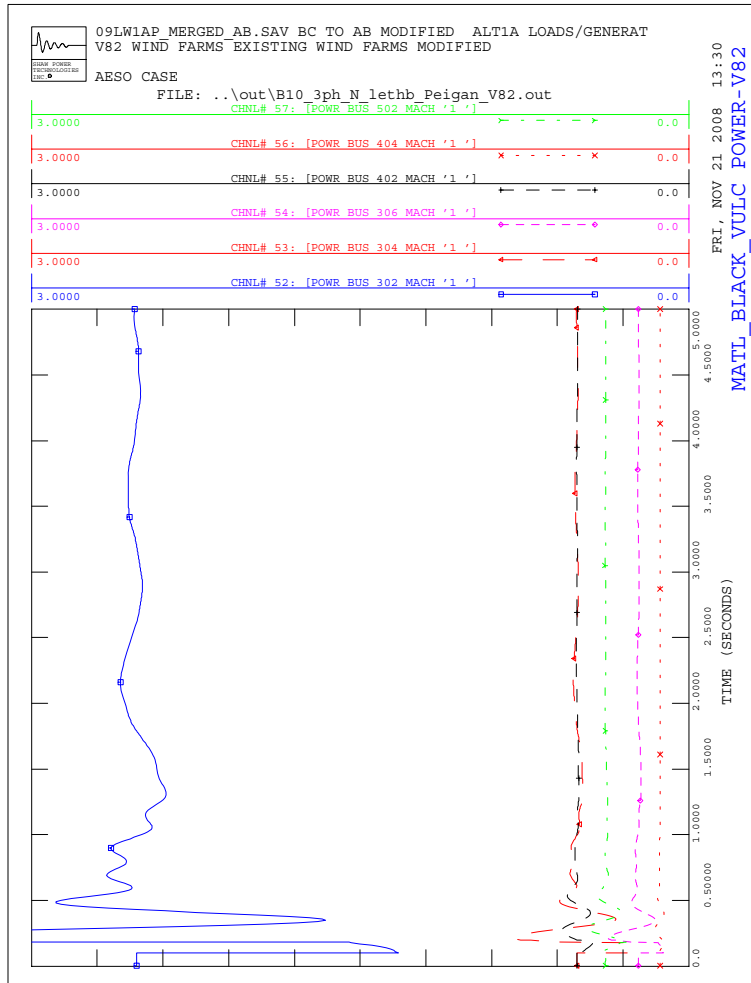
FRI, NOV 21 2008 13:30
LANGDON_FRQ-V82

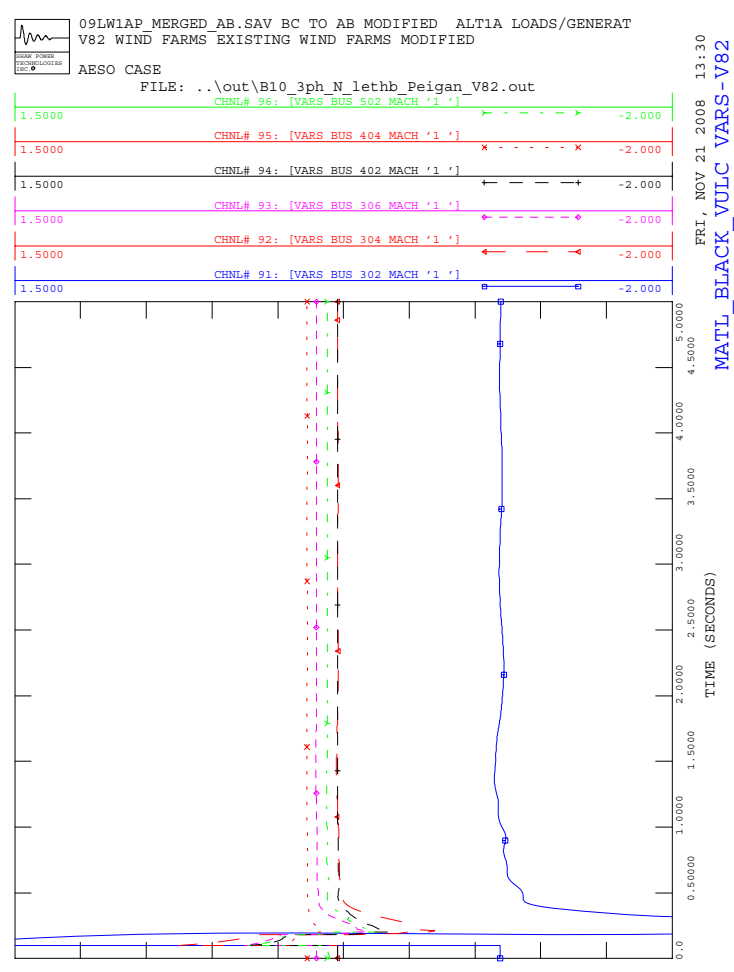
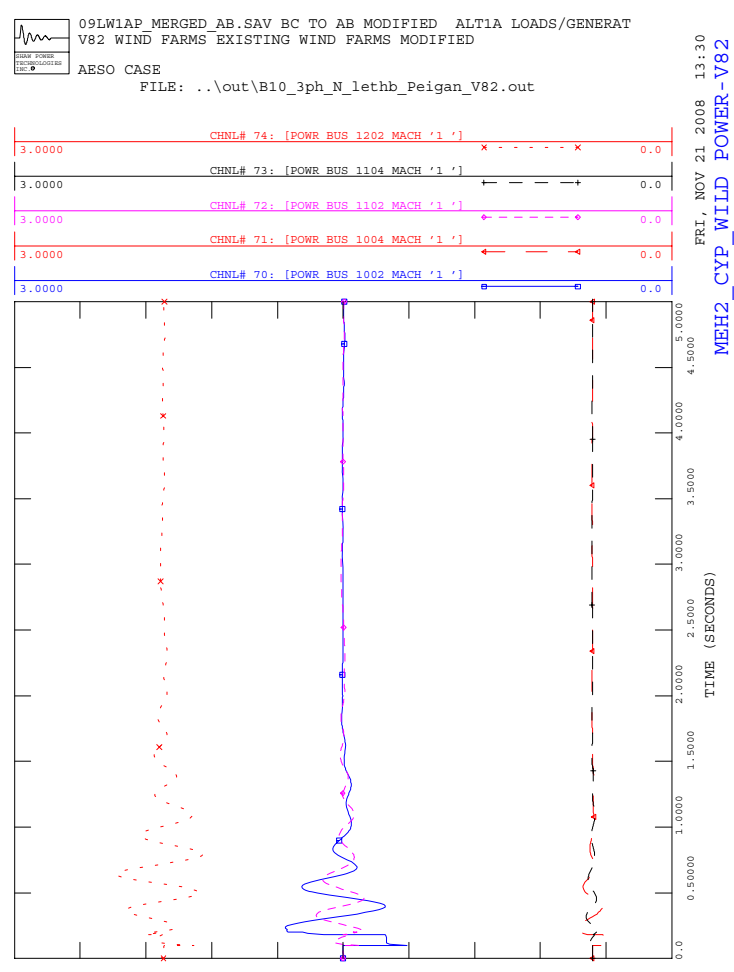
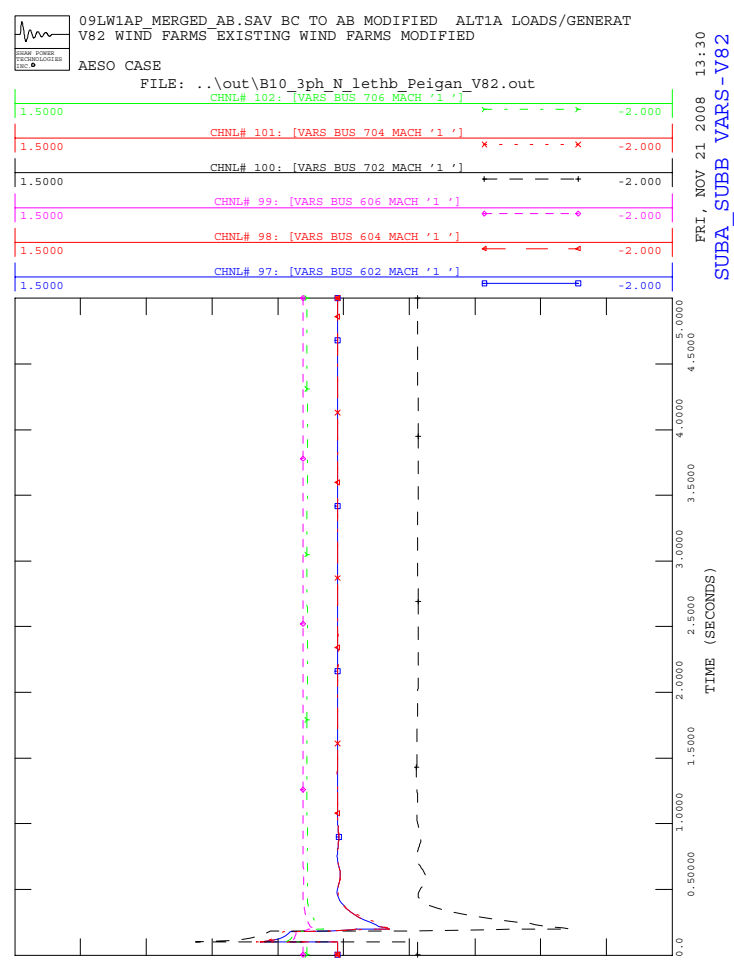
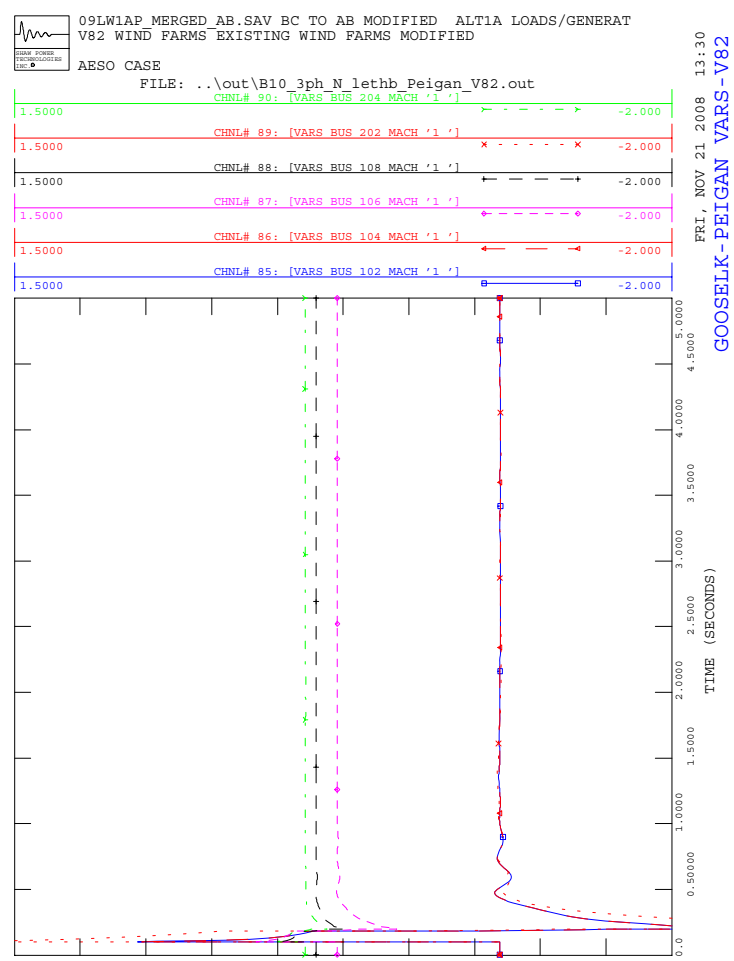


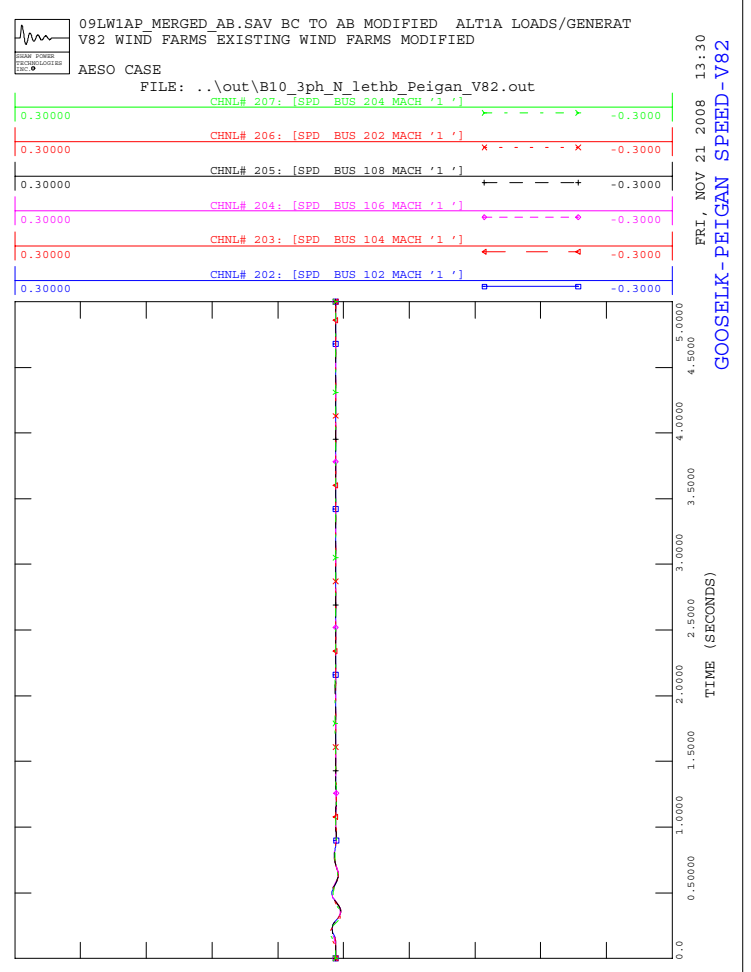
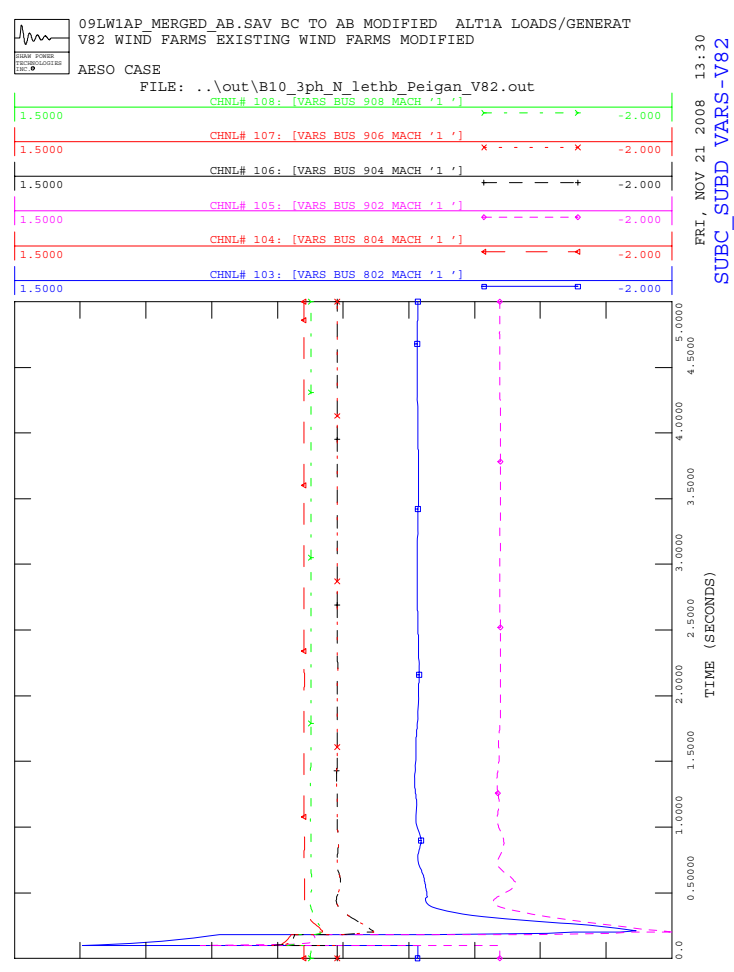
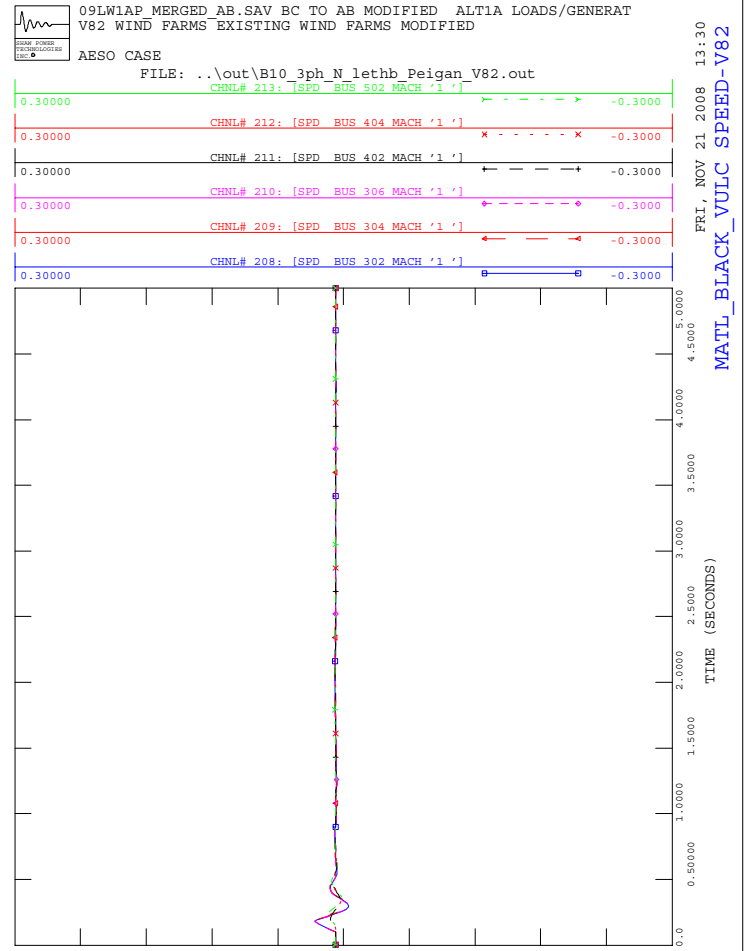
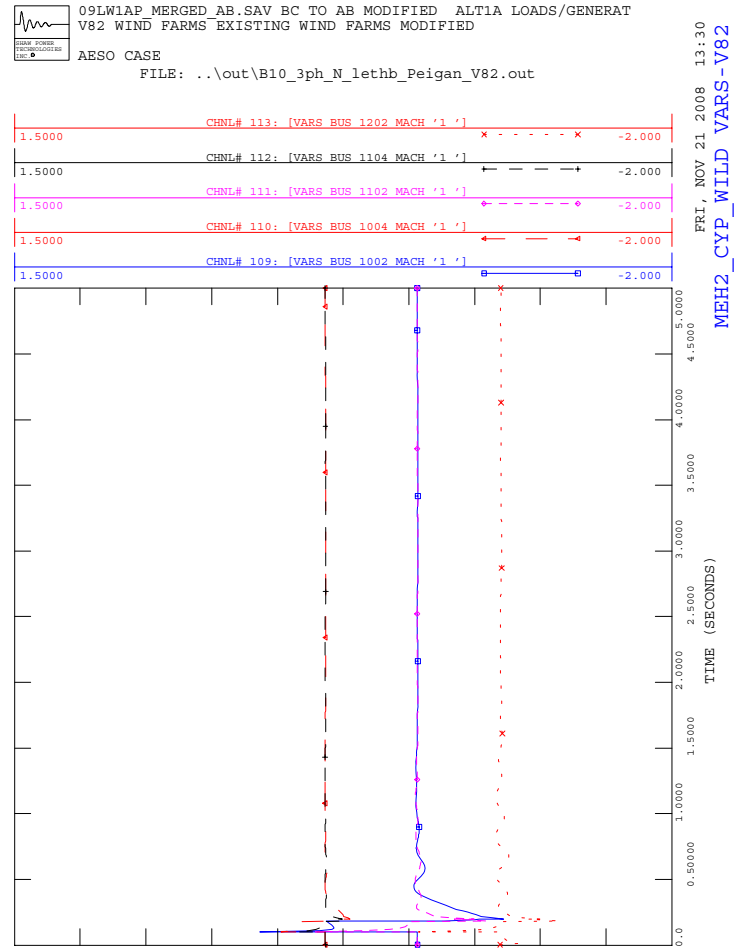
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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FRI, NOV 21 2008 13:30
AB_BC_TIE_FLOWS-V82



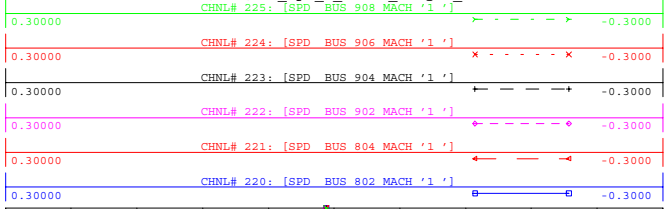




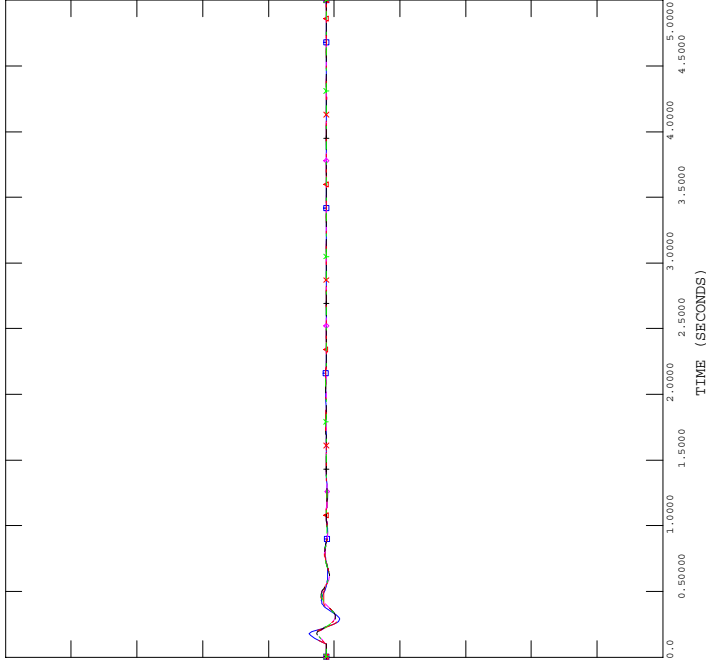


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AESO CASE

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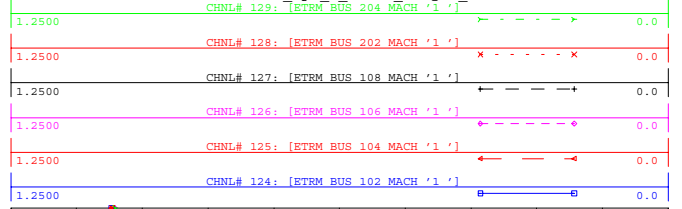


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SUBC_SUBD SPEED -V82

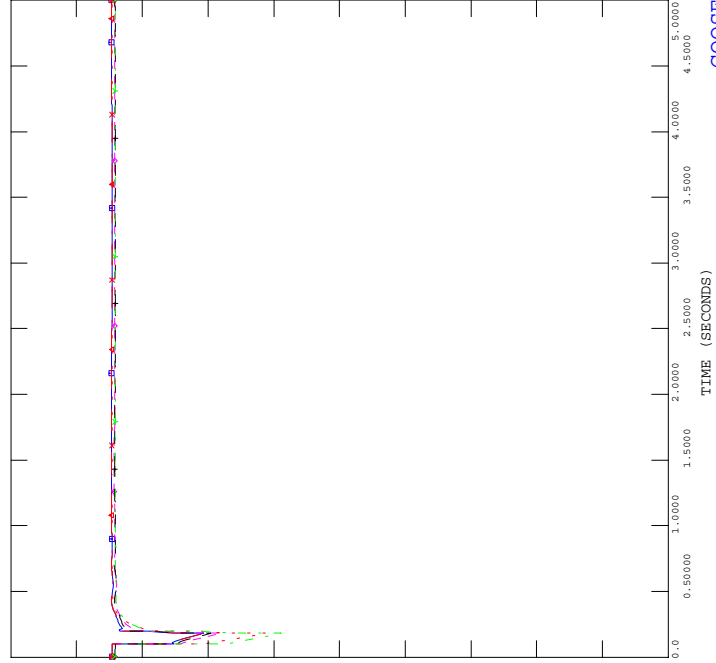


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\B10_3ph_N_lethb_Peigan_V82.out

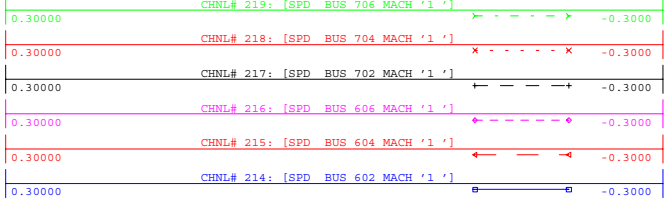


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GOOSELK-PEIGAN ETERM -V82

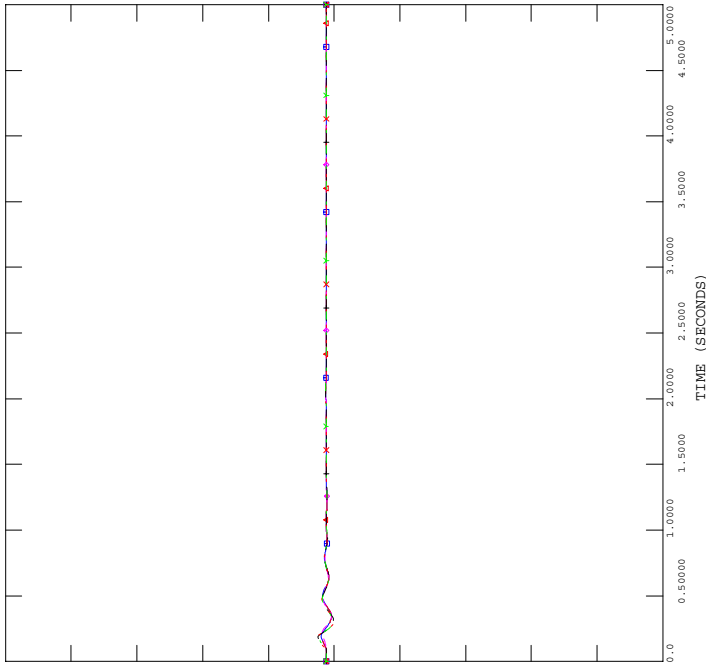


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AESO CASE

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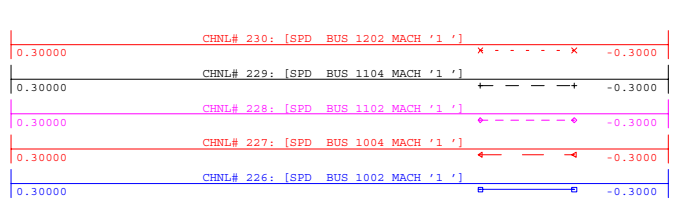


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SUBA_SUBD SPEED -V82

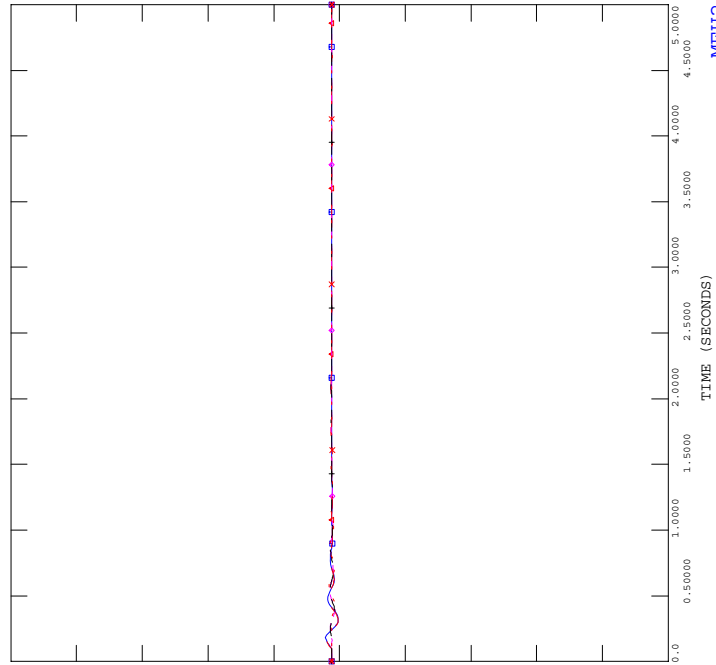


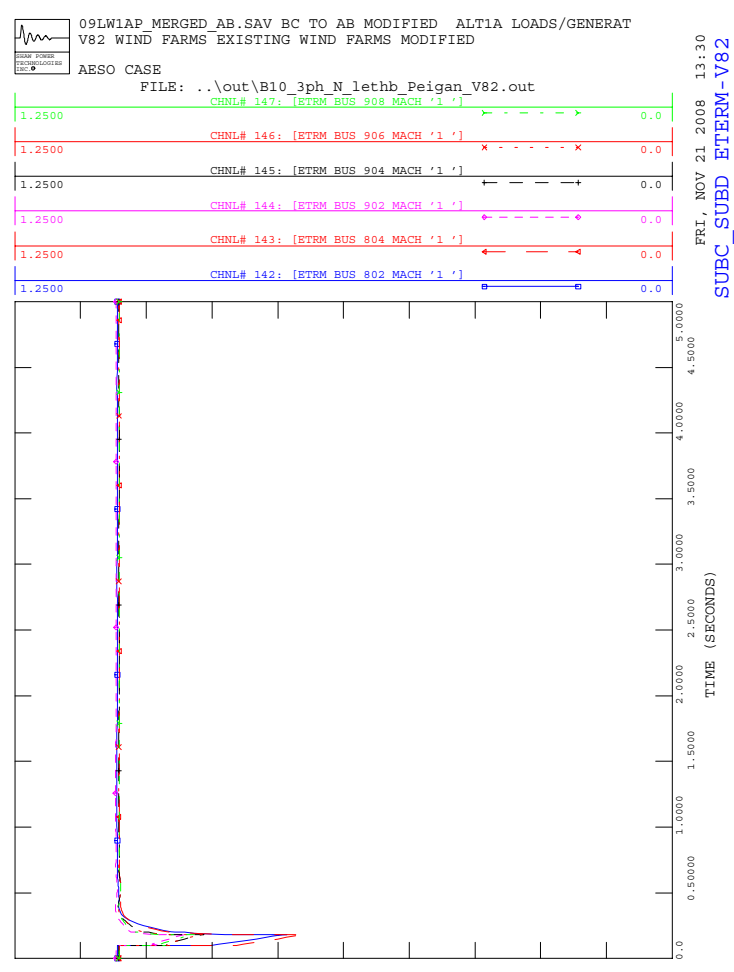
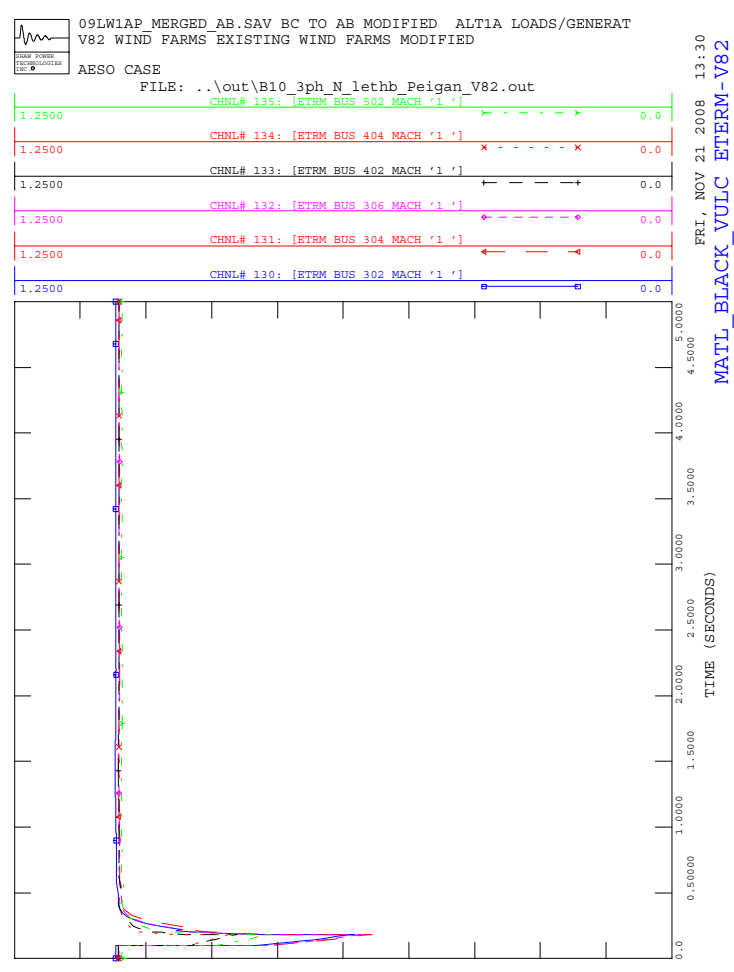
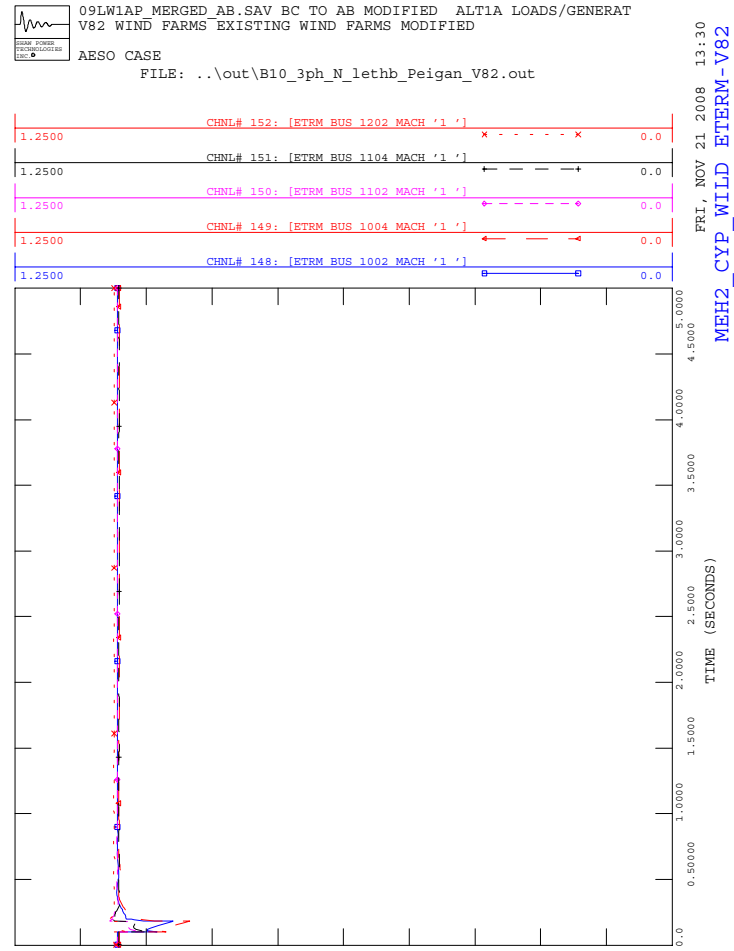
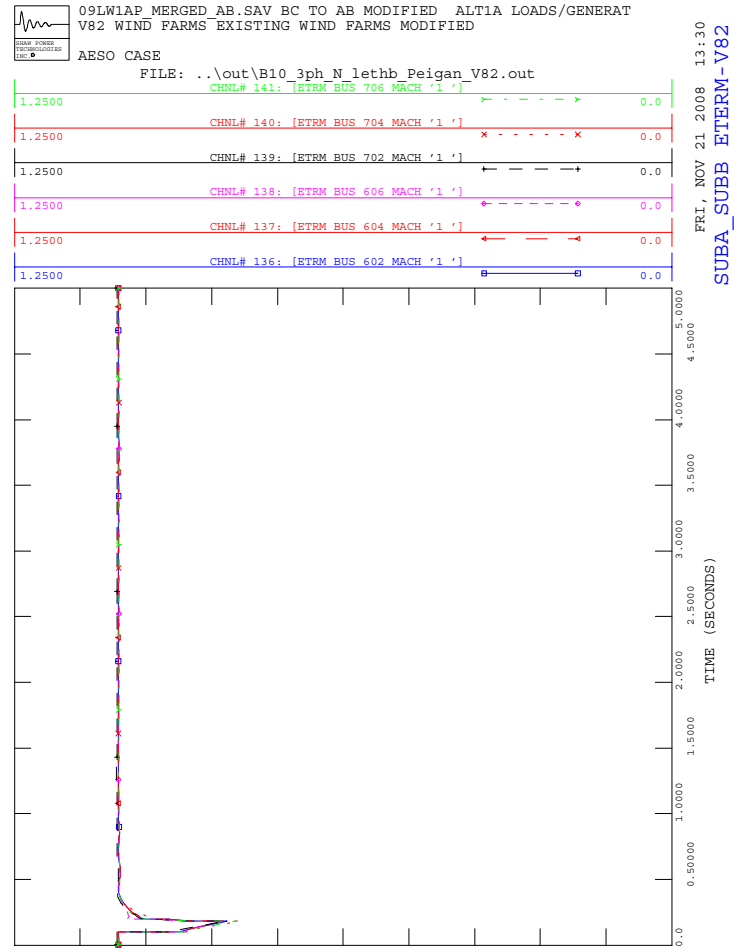
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

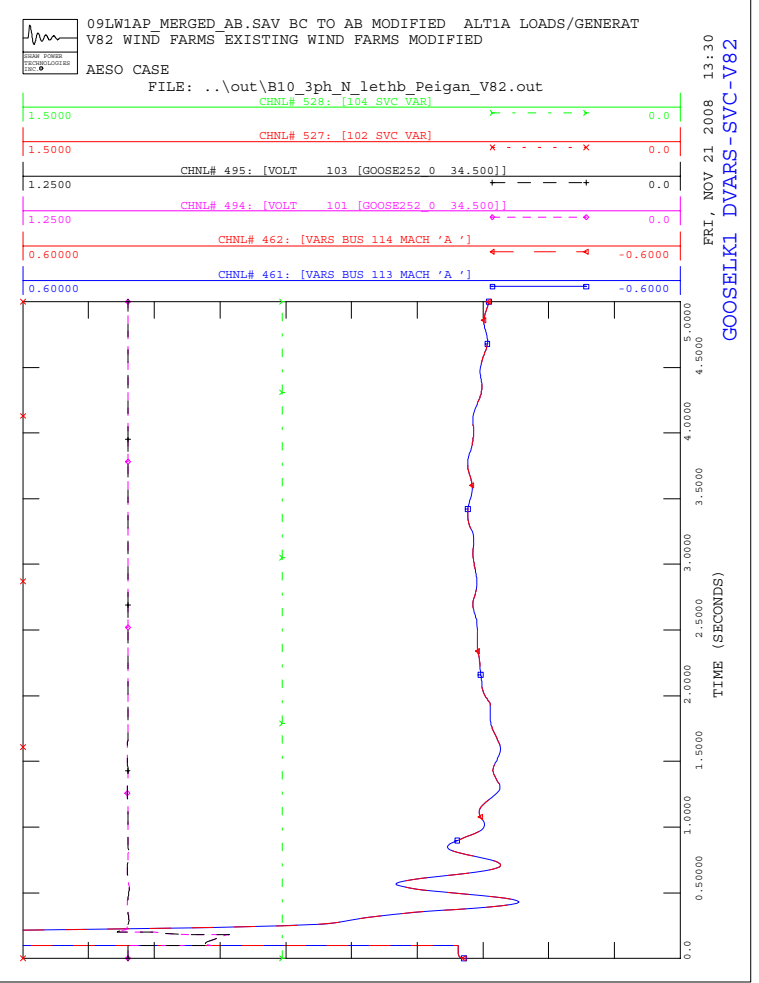
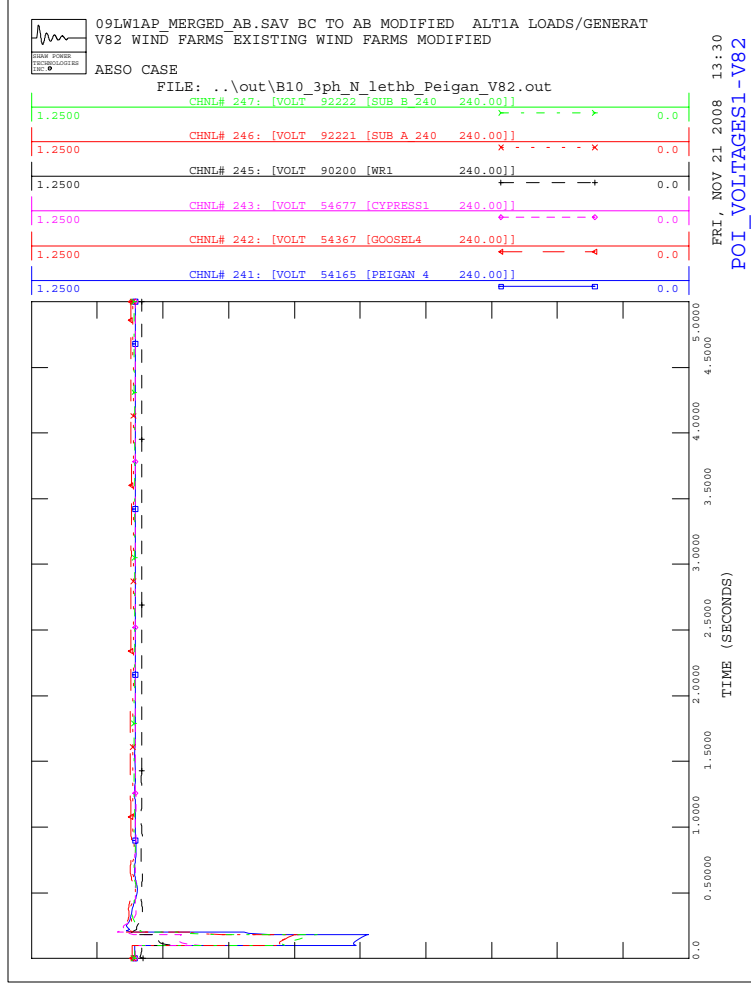
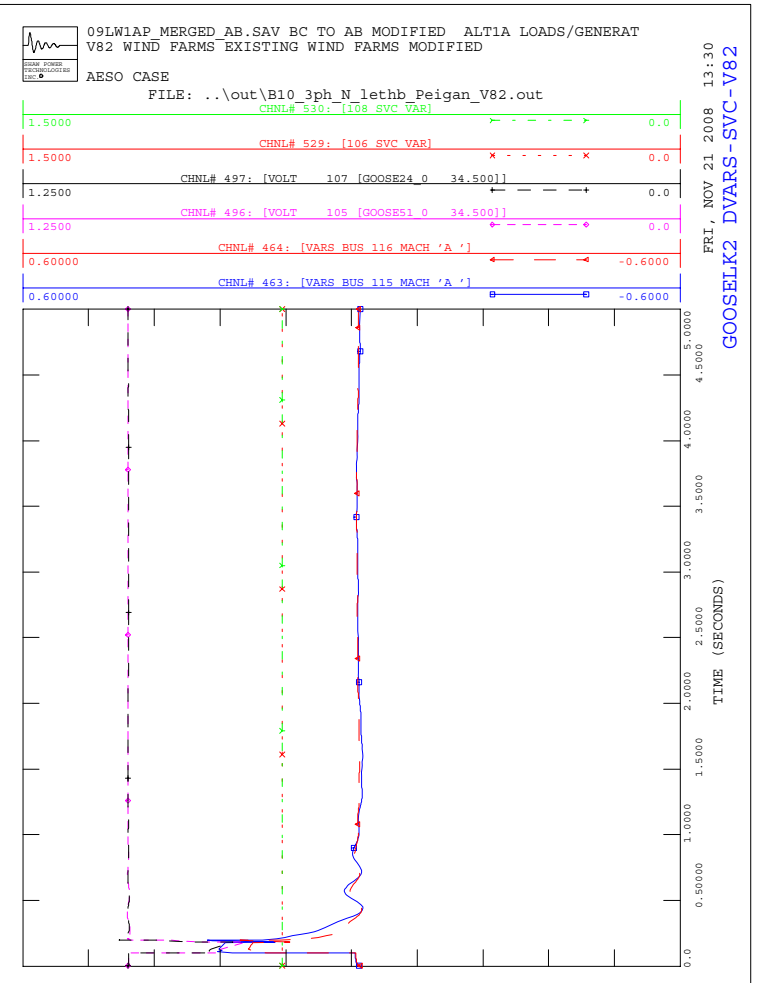
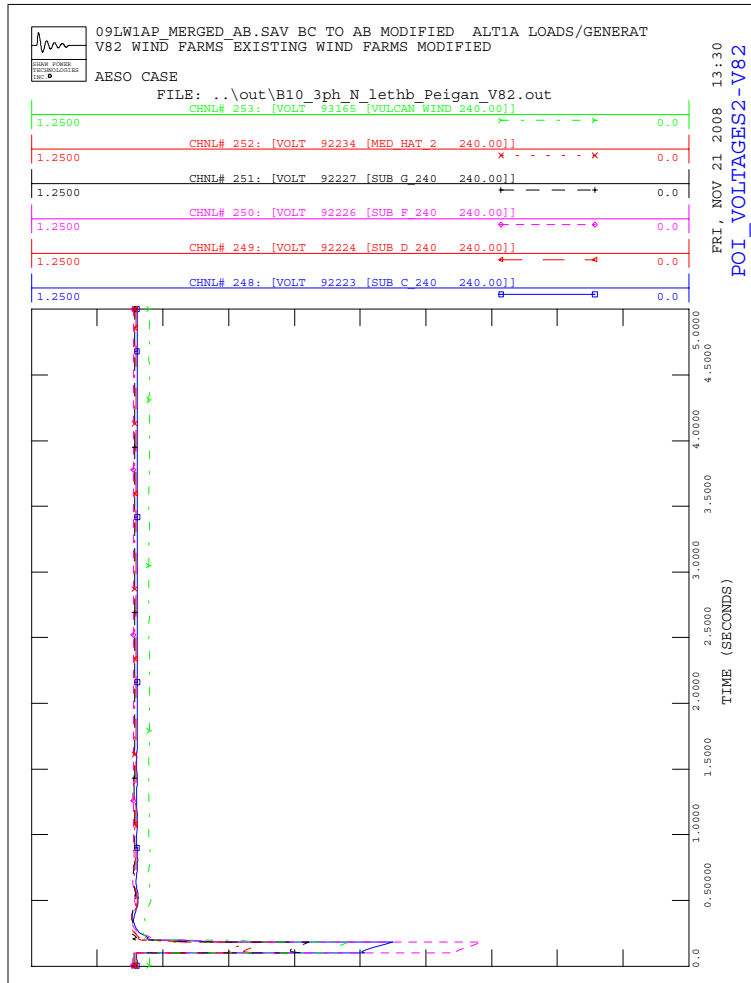
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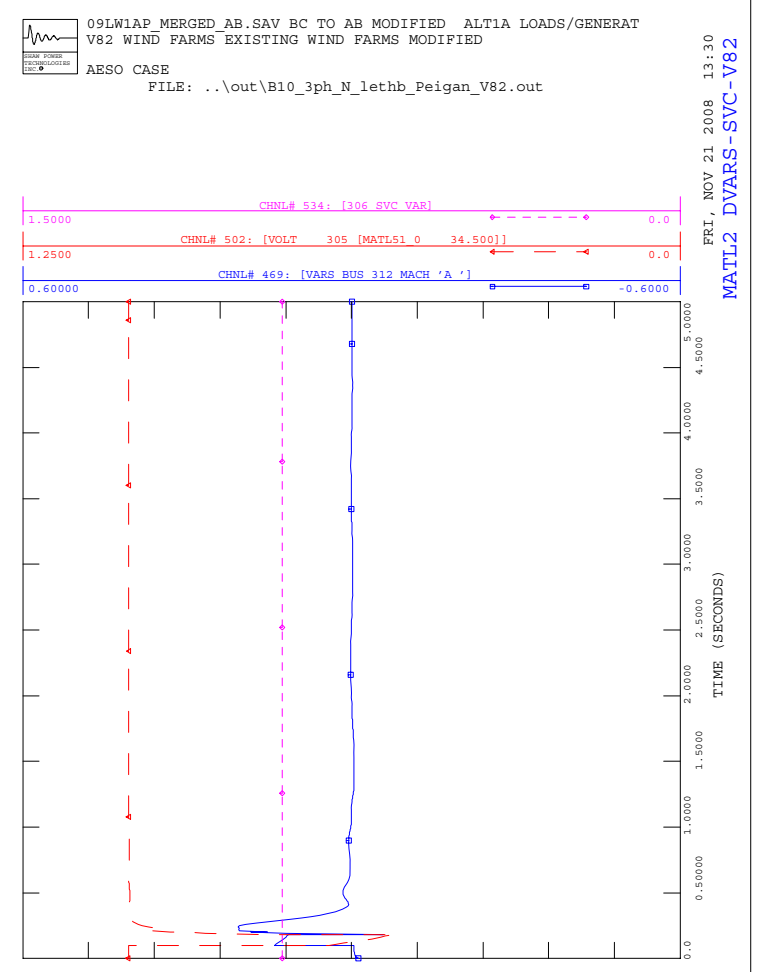
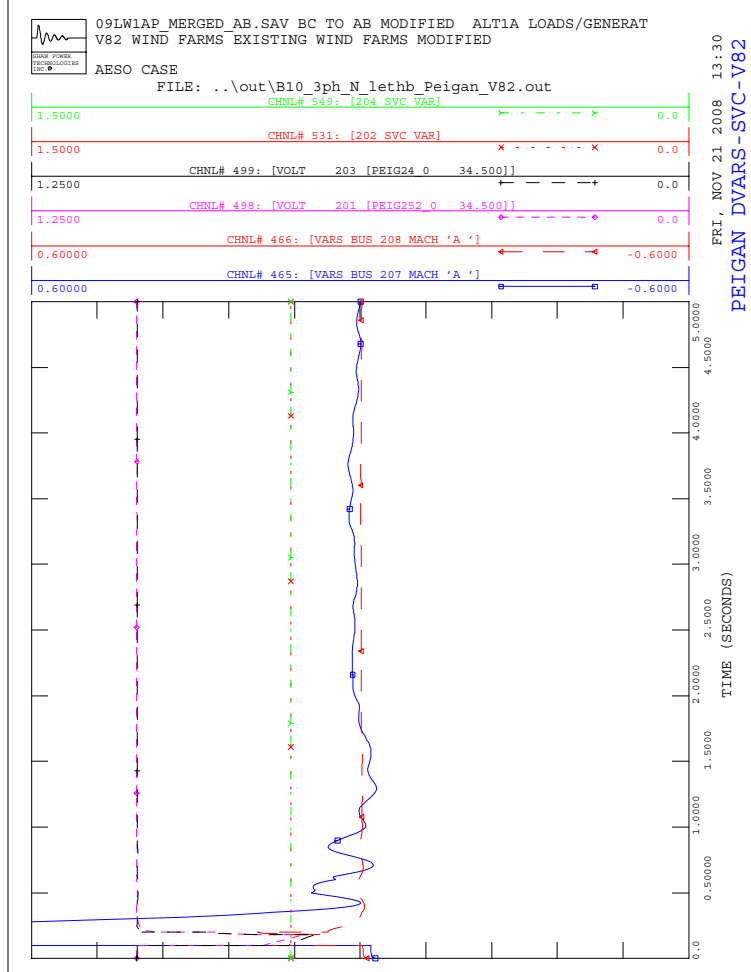
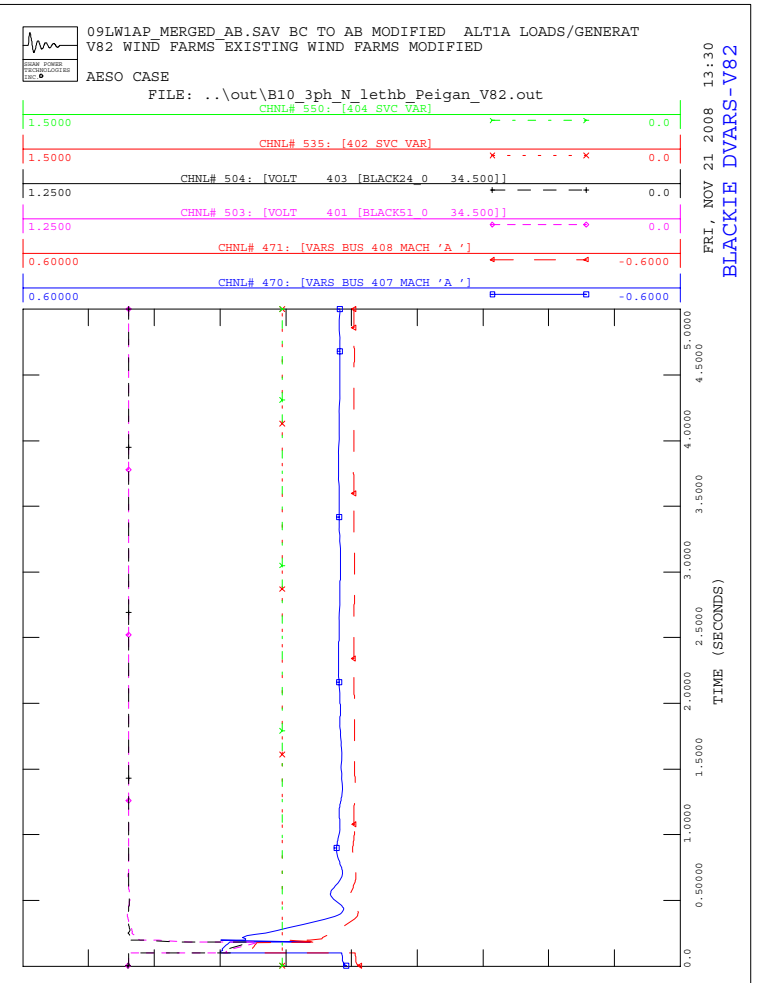
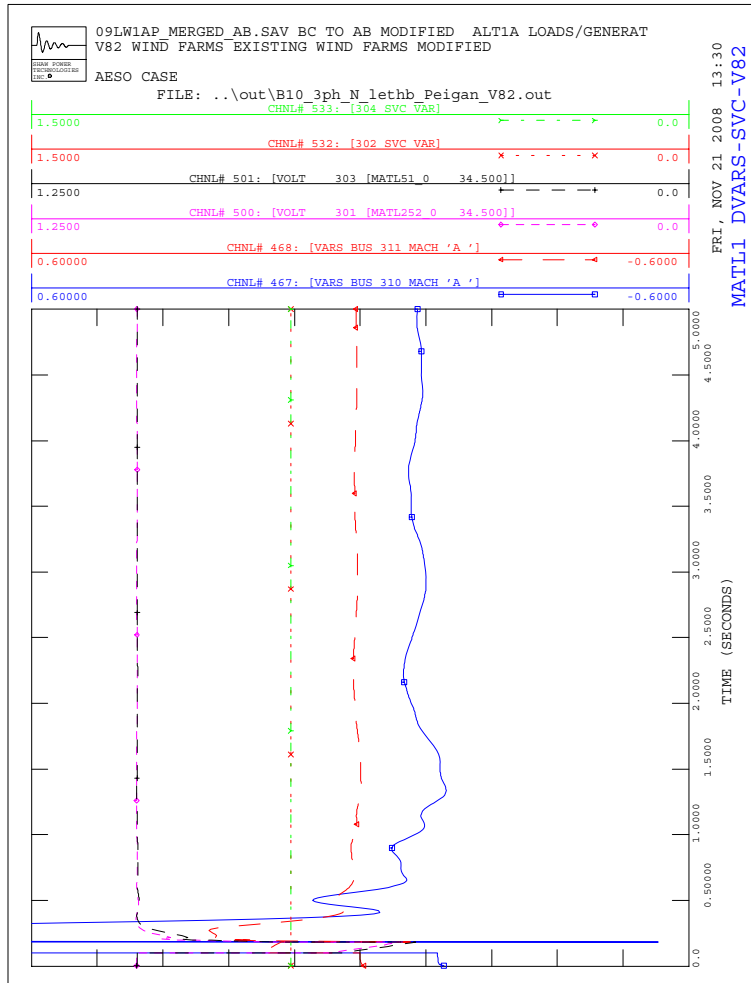


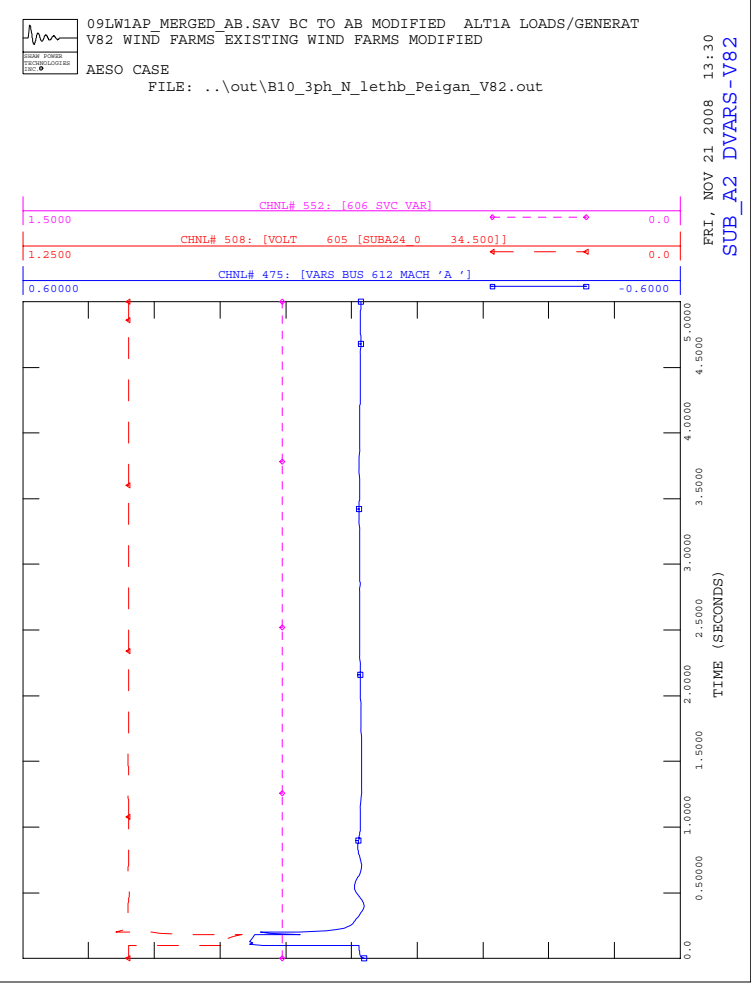
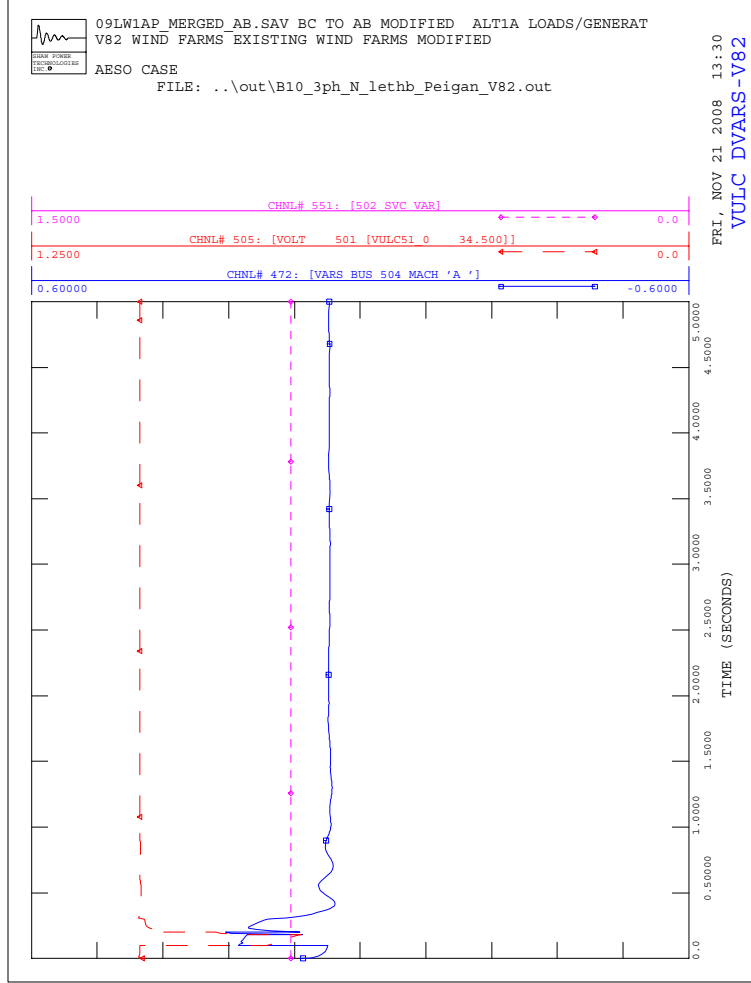
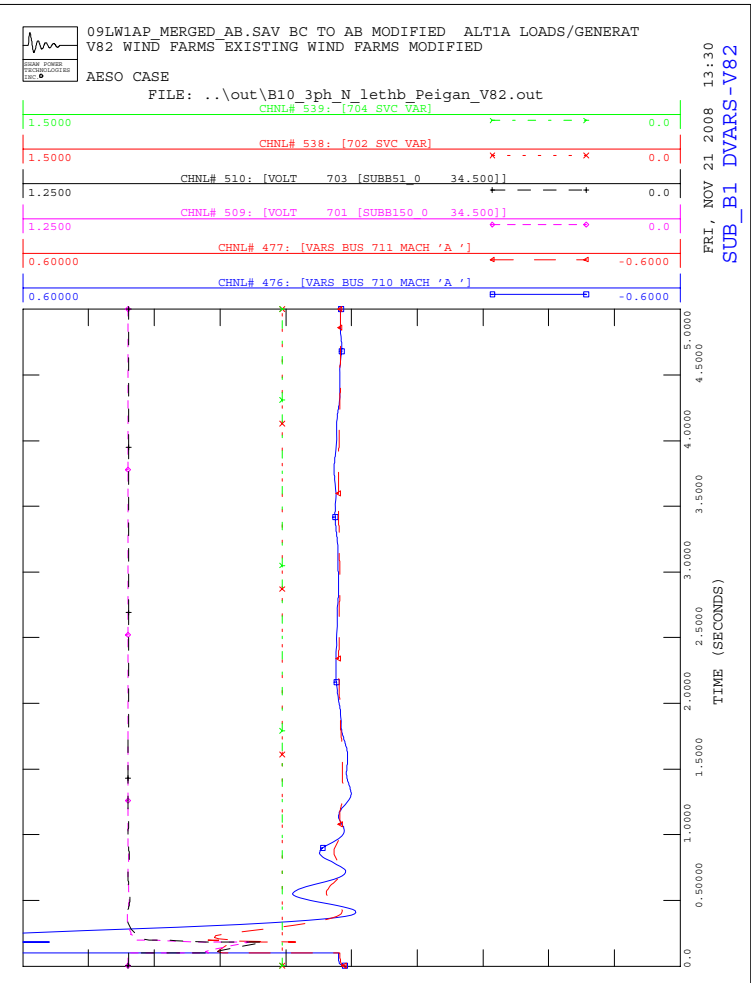
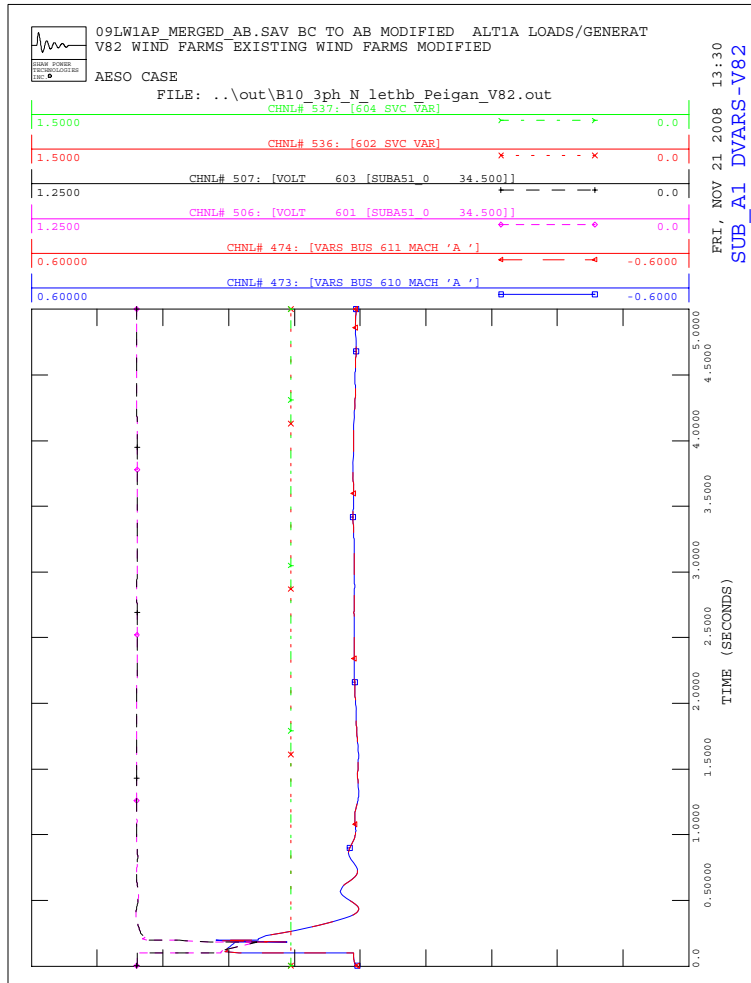
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MEH2_CYP_WILD SPEED -V82

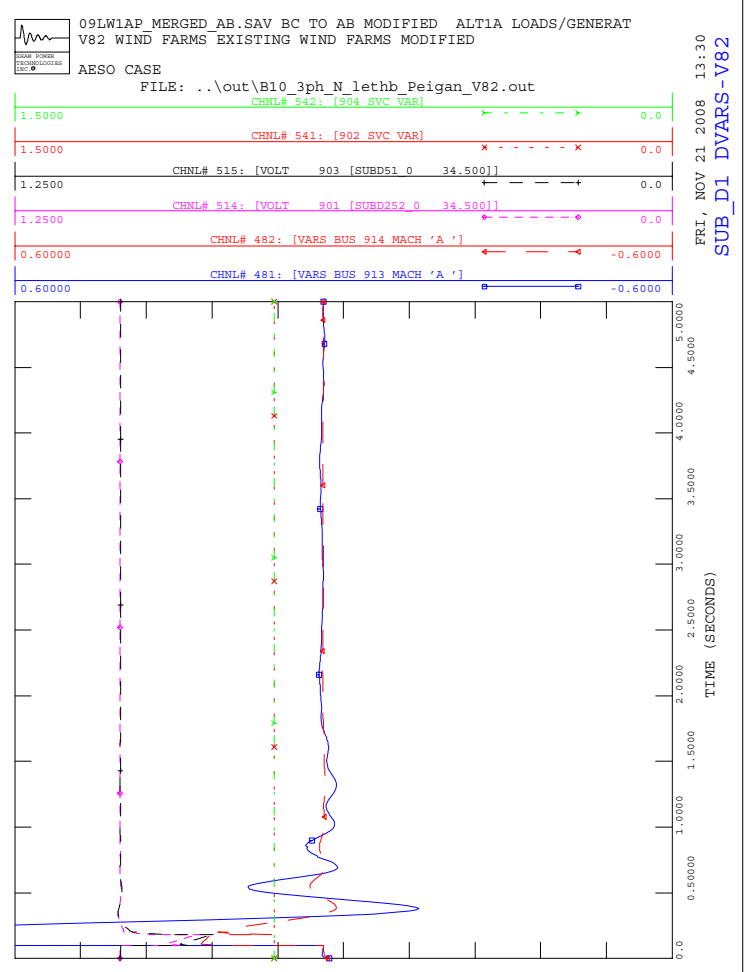
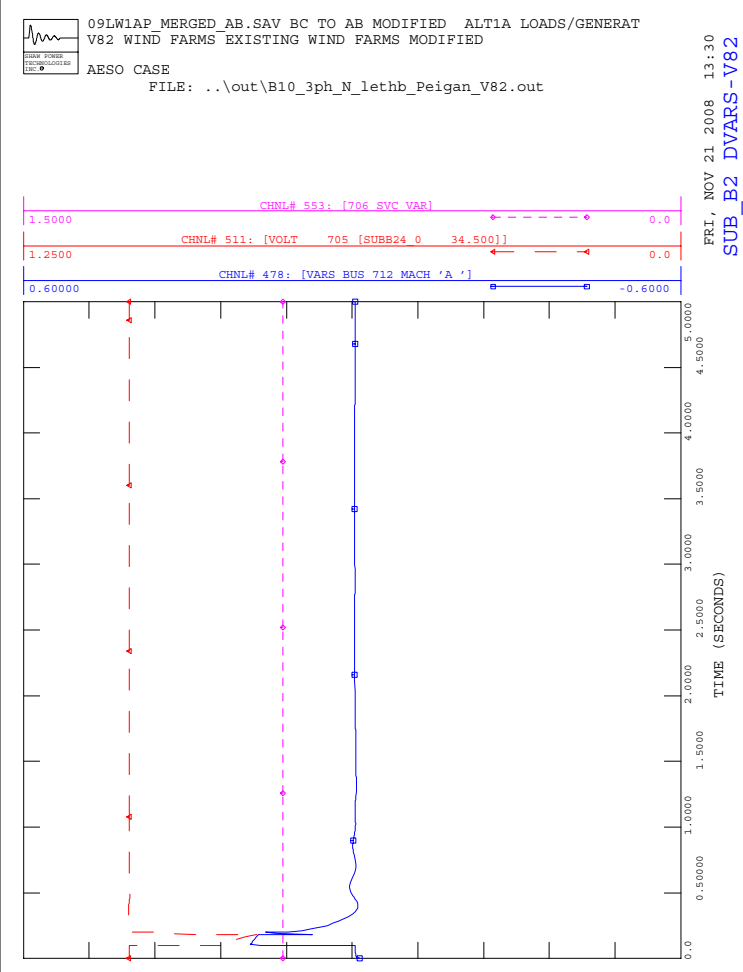
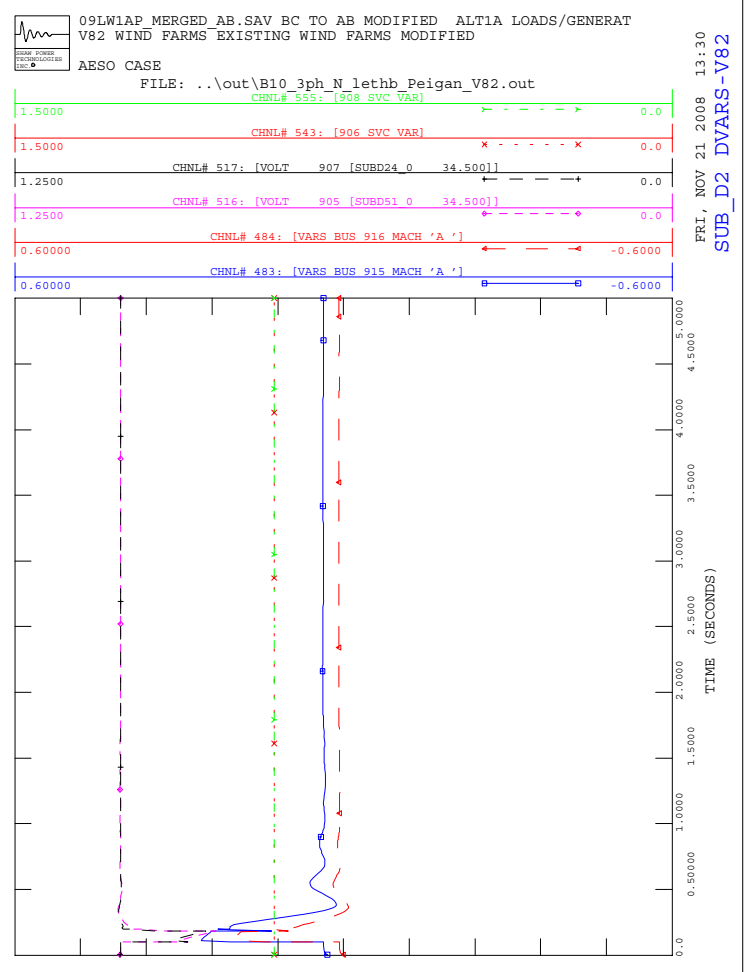
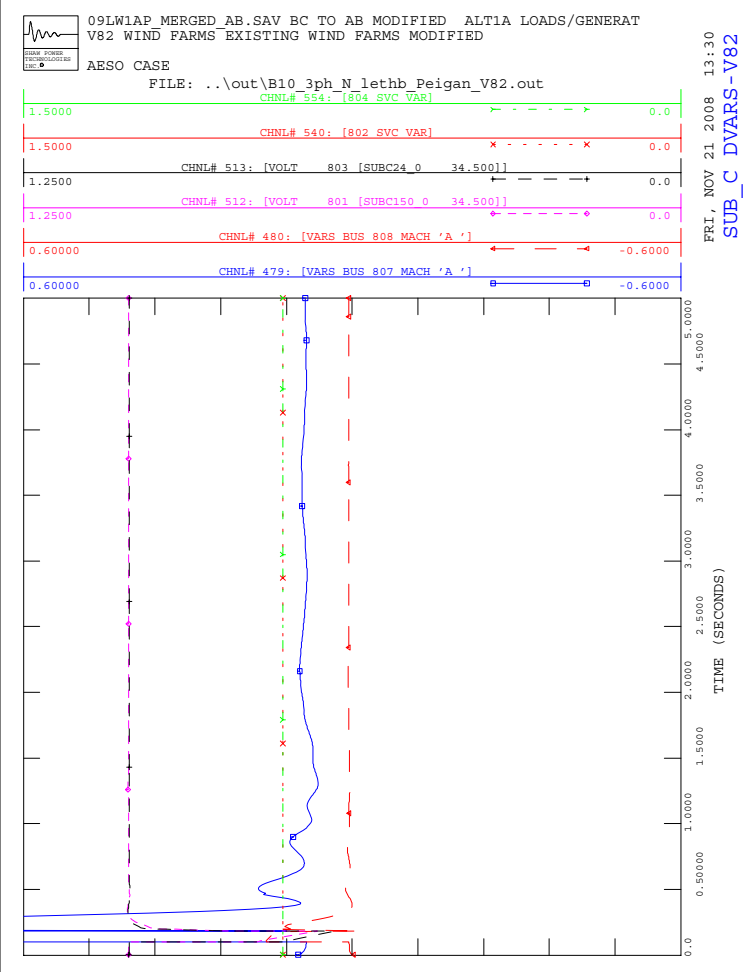


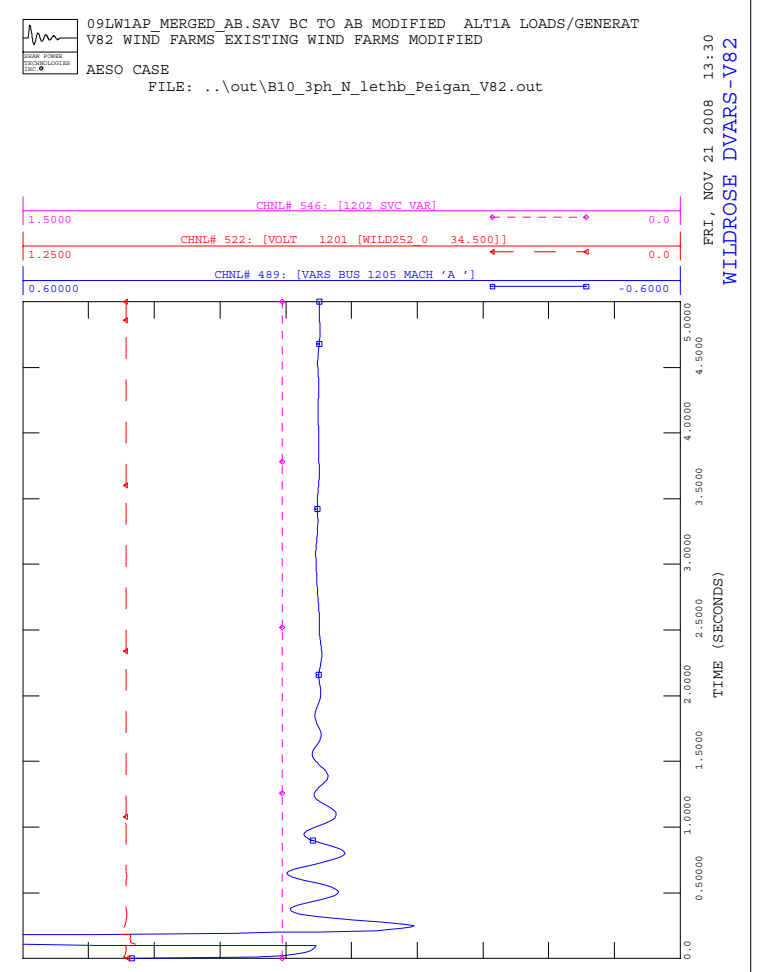
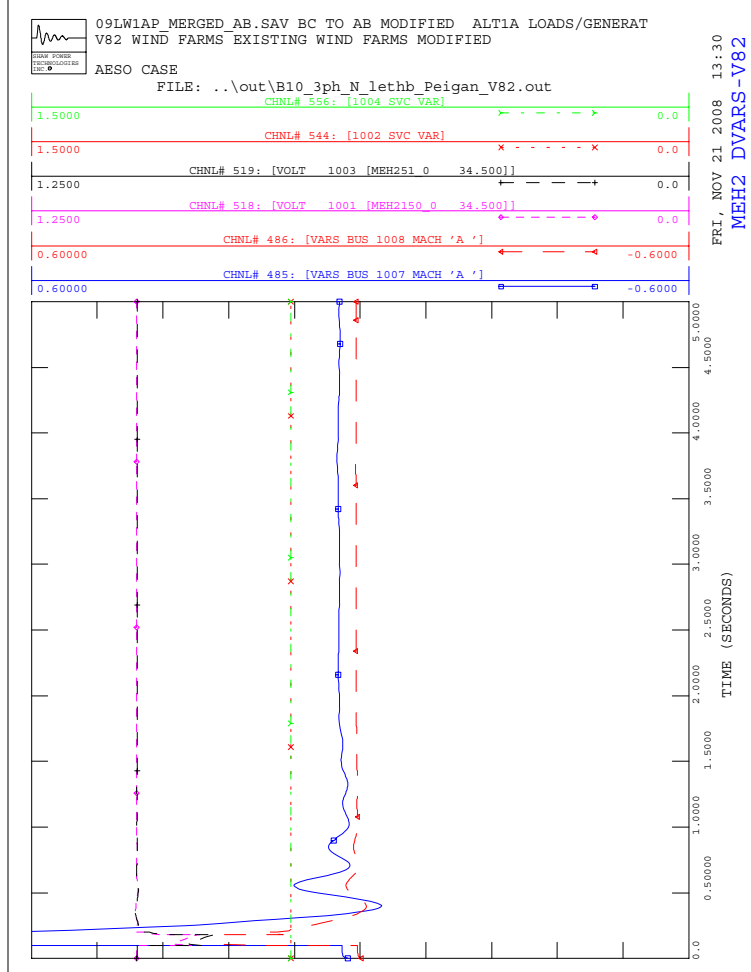
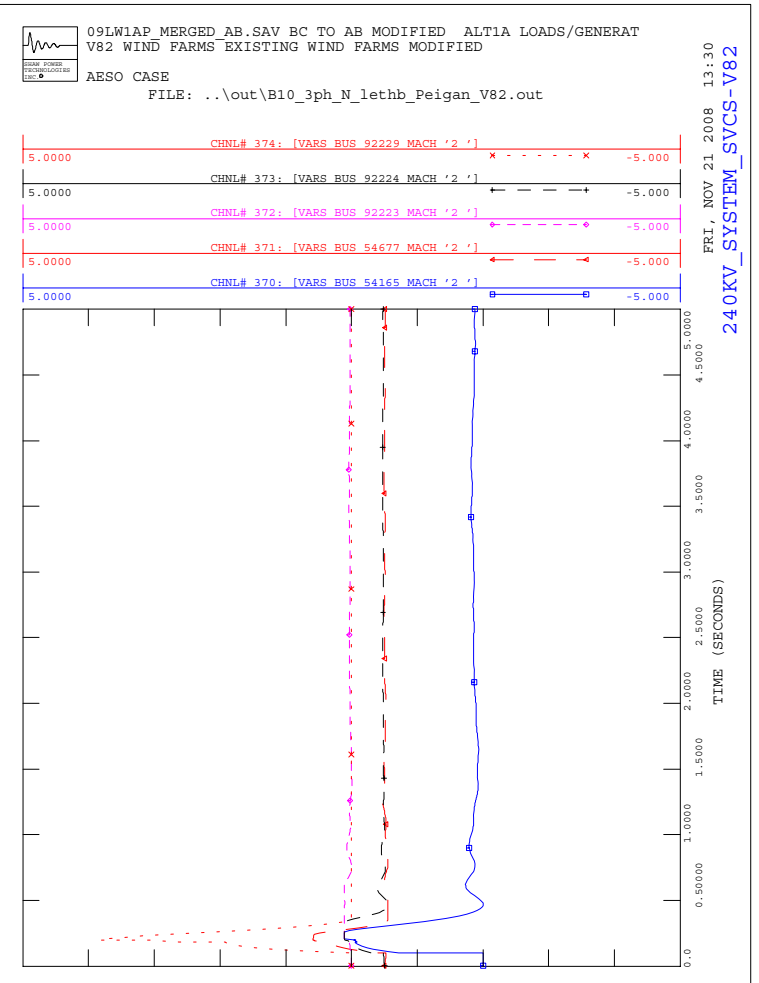
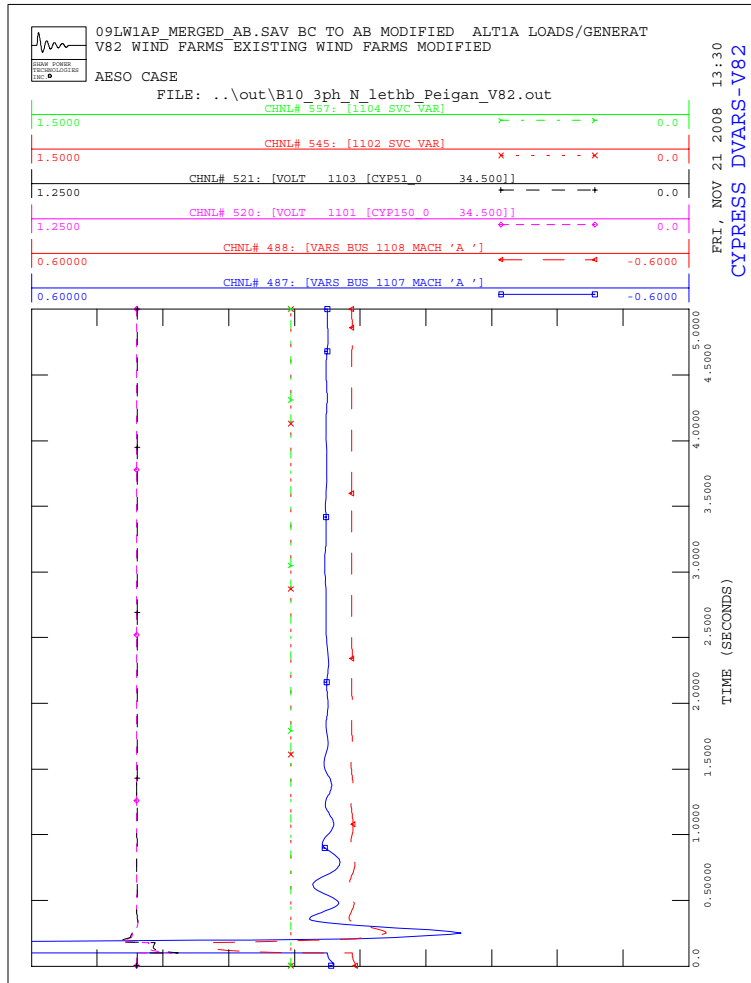








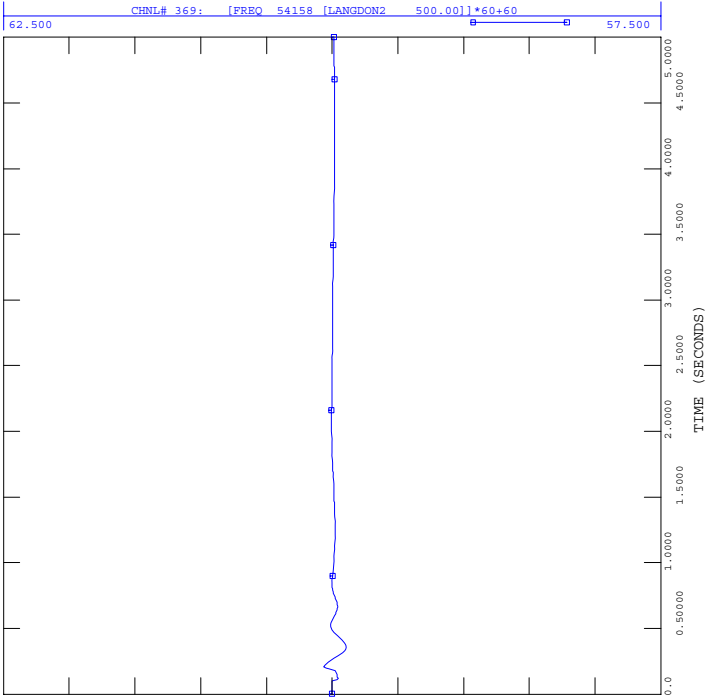






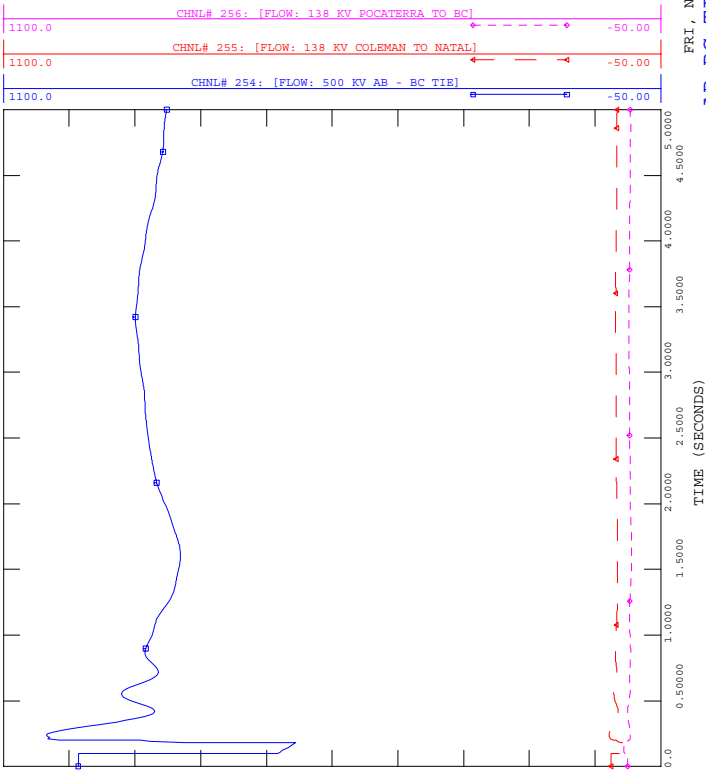
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B10_3ph_N_lethb_Peigan_V82.out

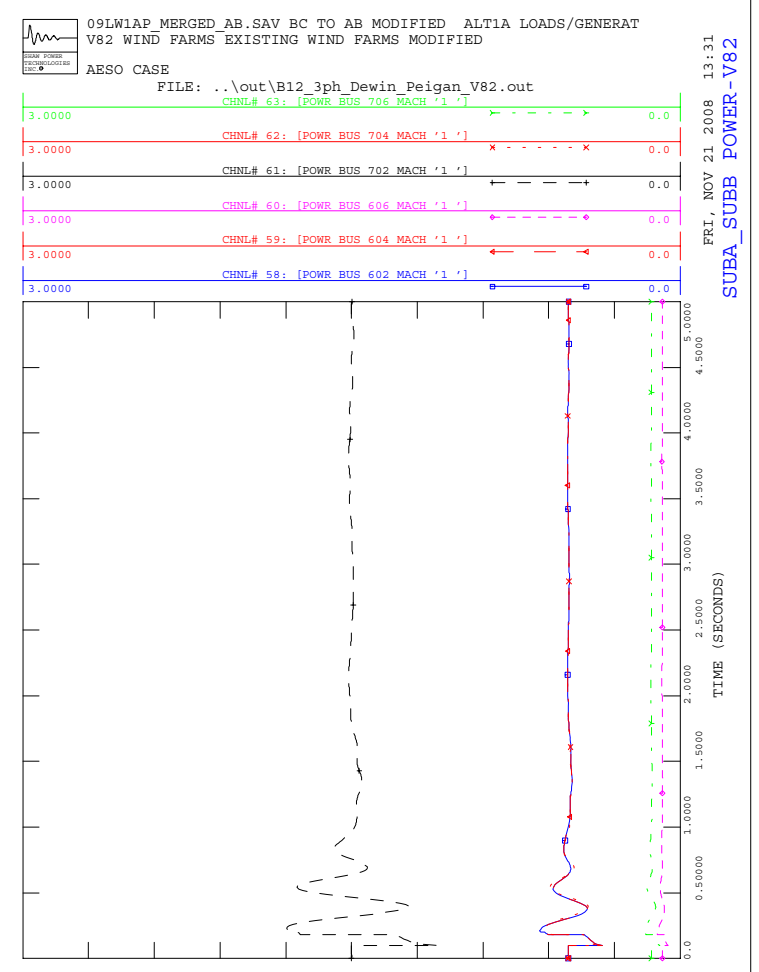
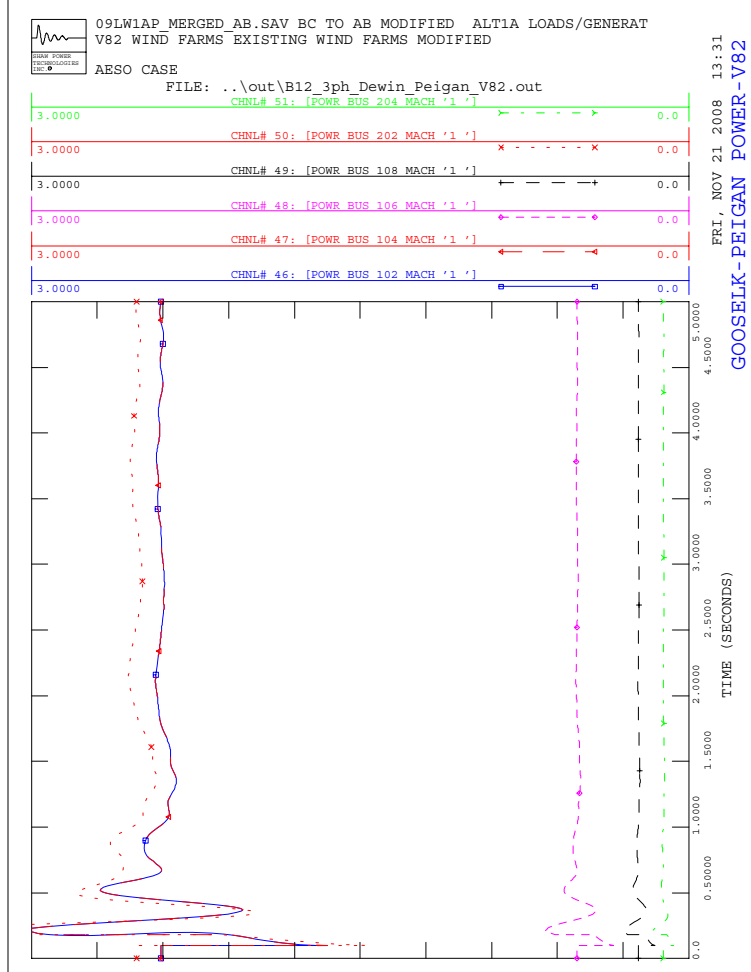
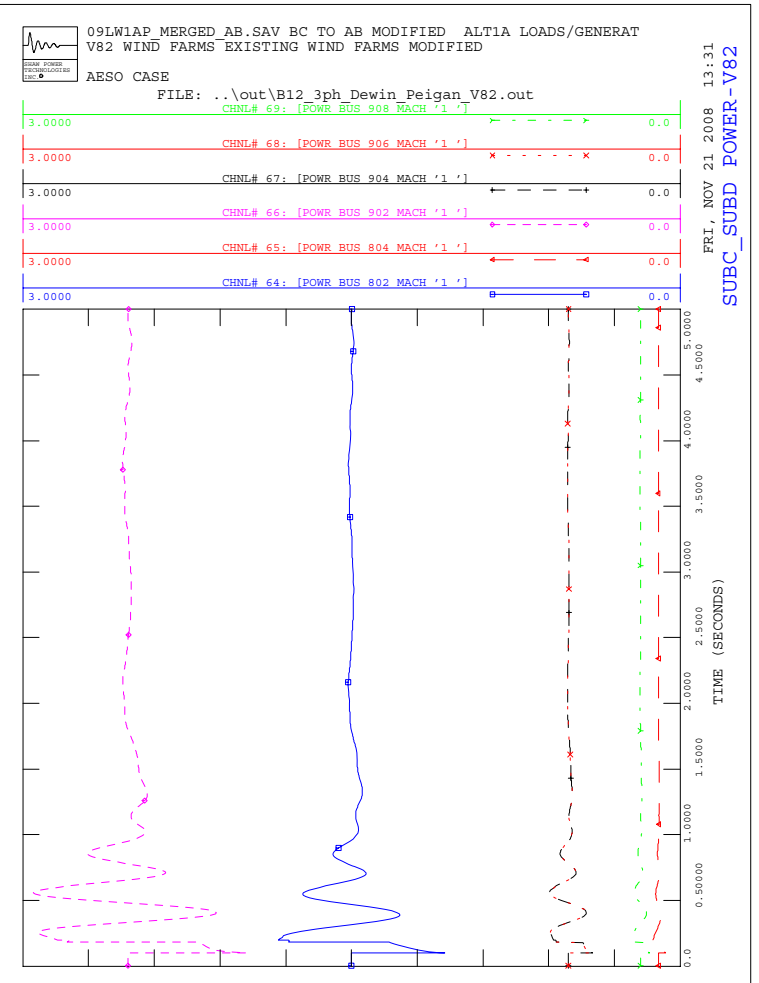
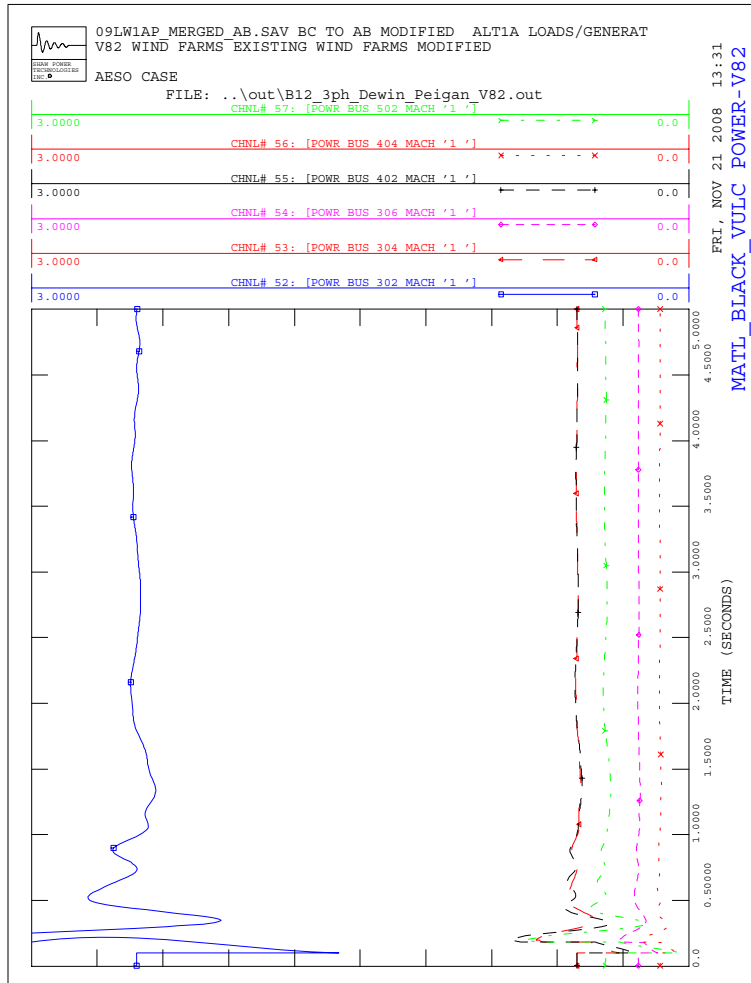
FRI, NOV 21 2008 13:30
LANGDON_FRQ-V82

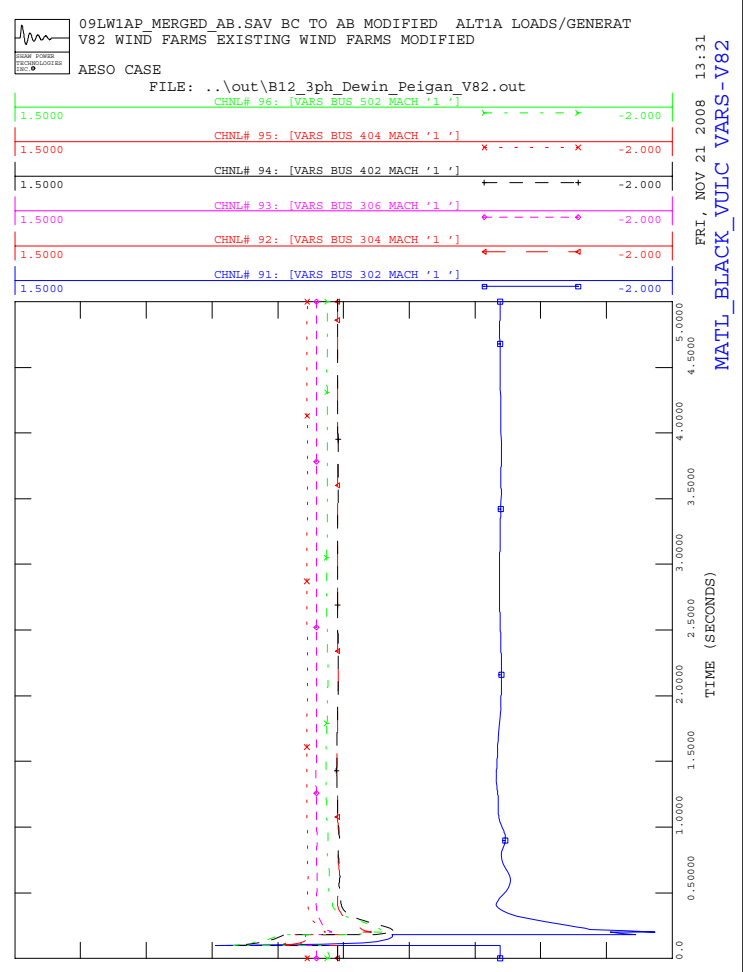
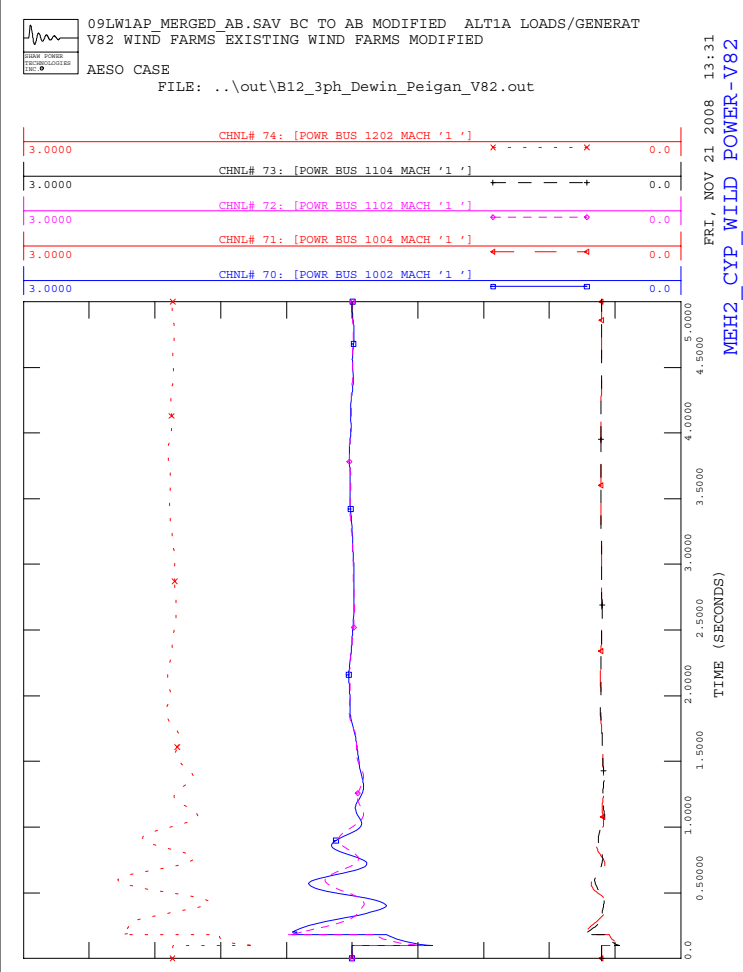
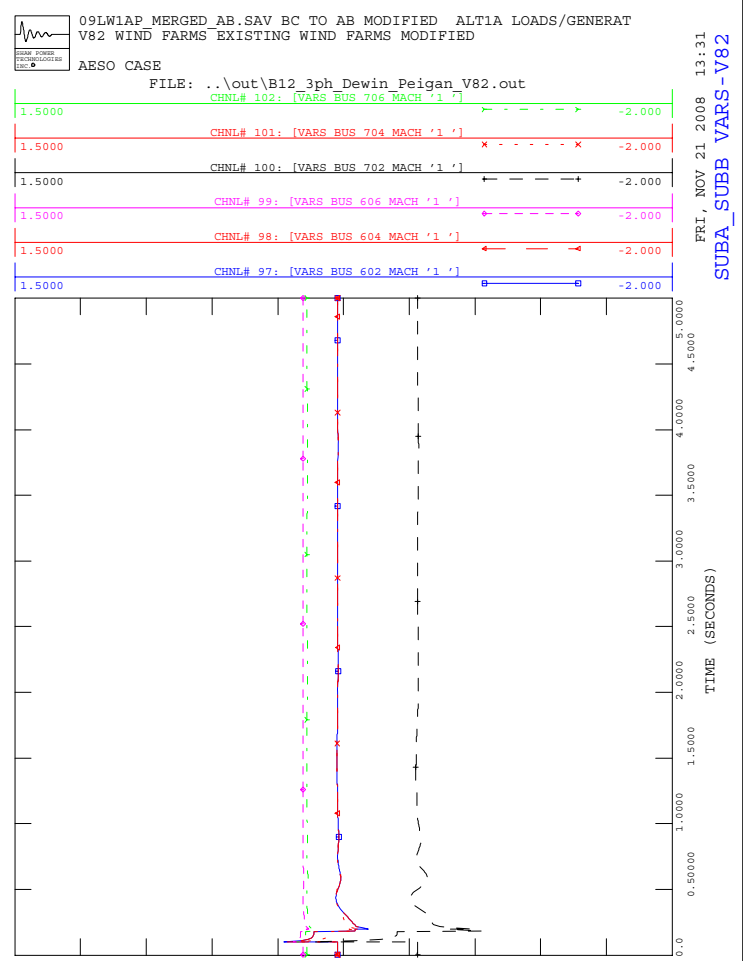
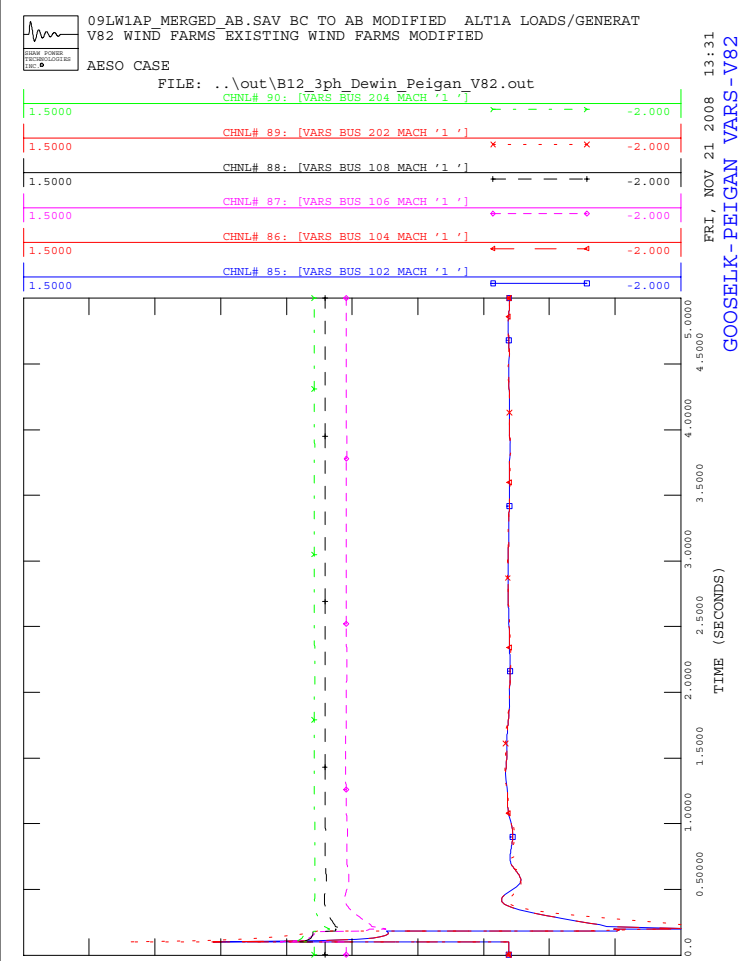


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B10_3ph_N_lethb_Peigan_V82.out

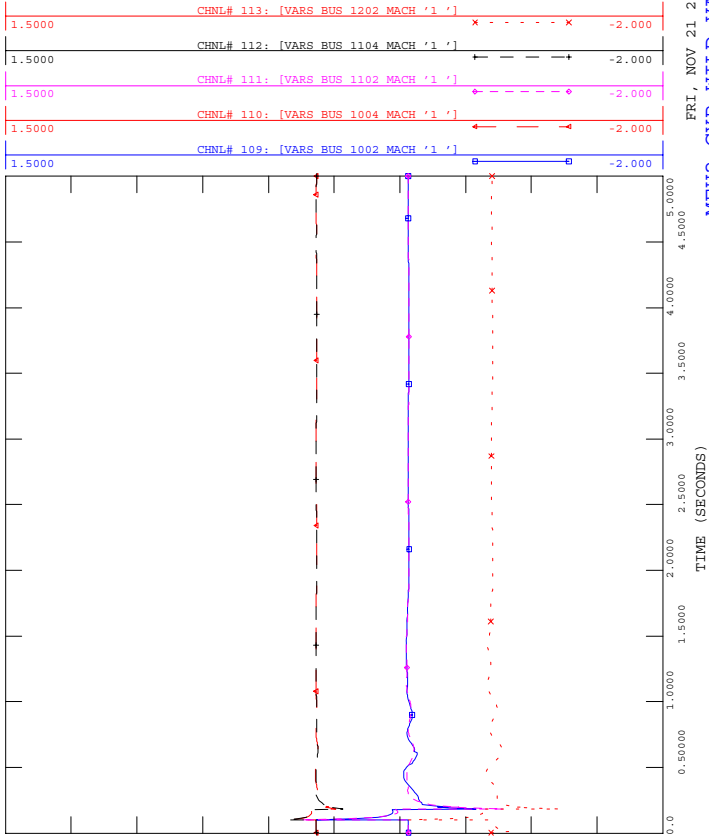
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AB_BC_TIE_FLOWS-V82





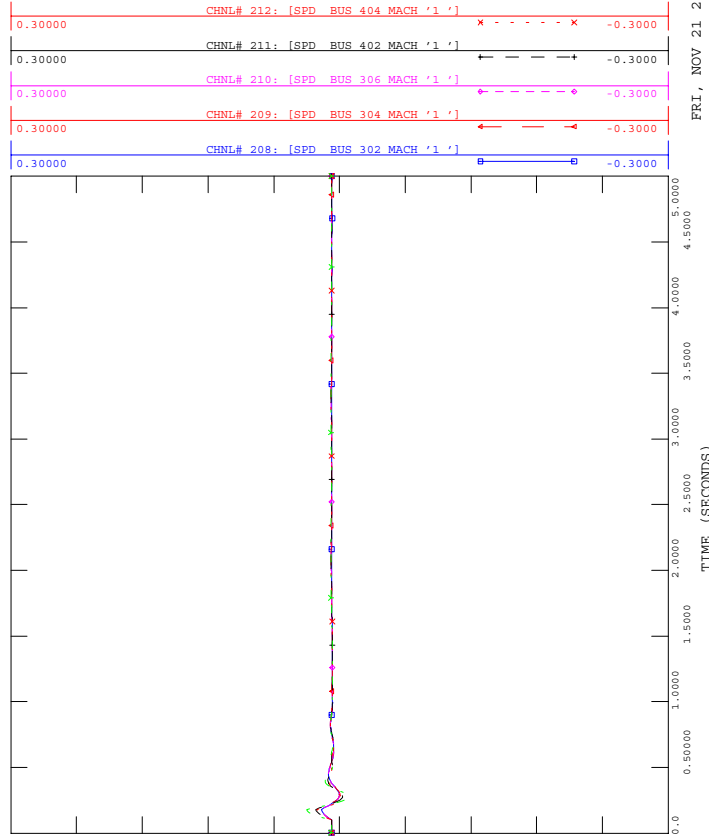


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 AESO CASE
 FILE: ..\out\B12_3ph_Dewin_Peigan_V82.out



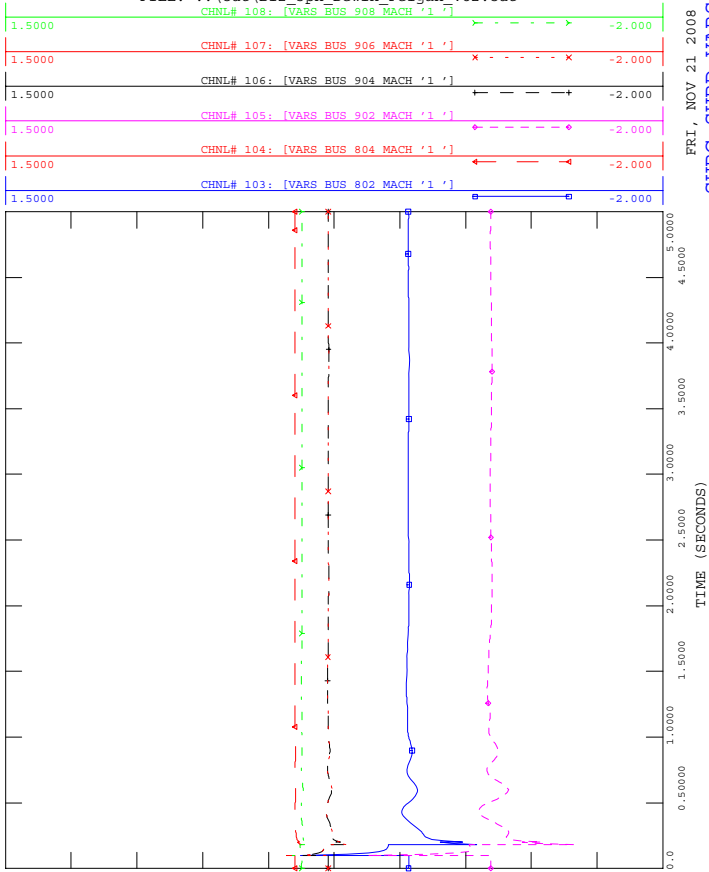
FRI, NOV 21 2008 13:31
 MEH2_CYP_WILD VARS-V82

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 AESO CASE
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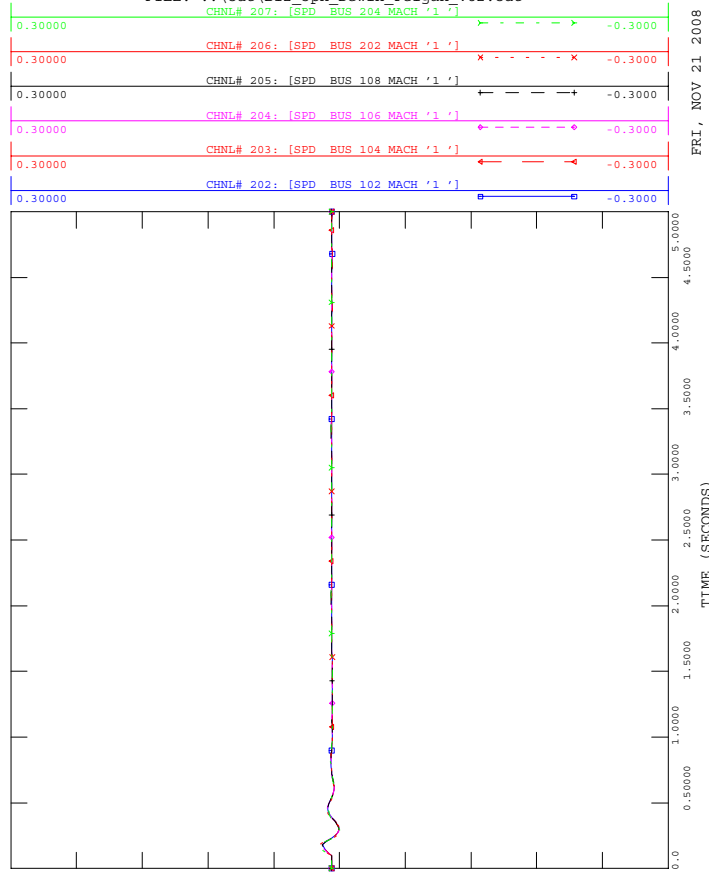
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 MAIL_BLACK_VULC SPEED-V82

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FRI, NOV 21 2008 13:31
 SUBC_SUBD VARS-V82

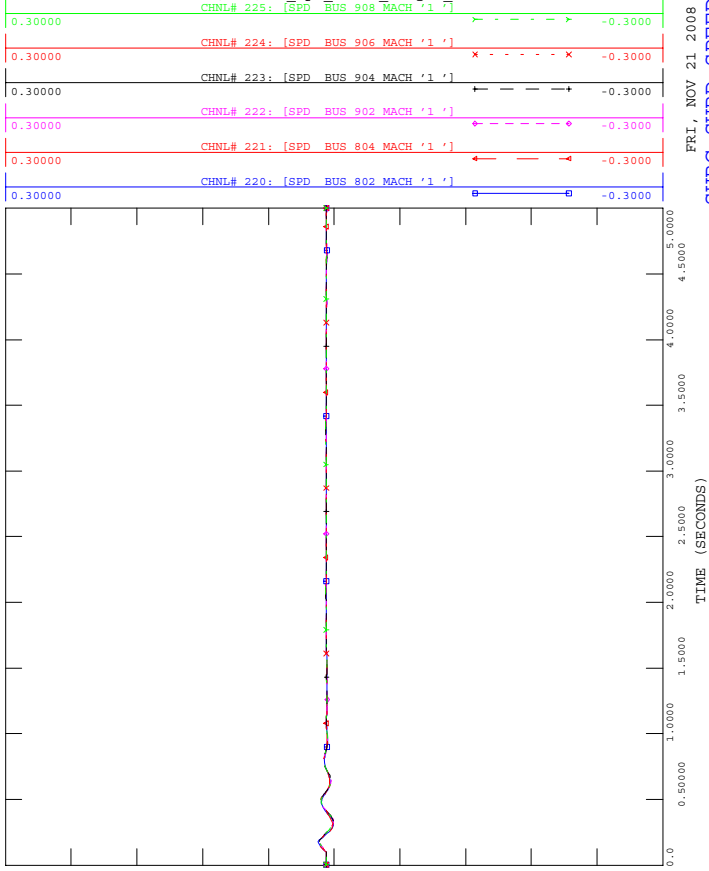
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 AESO CASE
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FRI, NOV 21 2008 13:31
 GOOSELK-PEIGAN SPEED-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

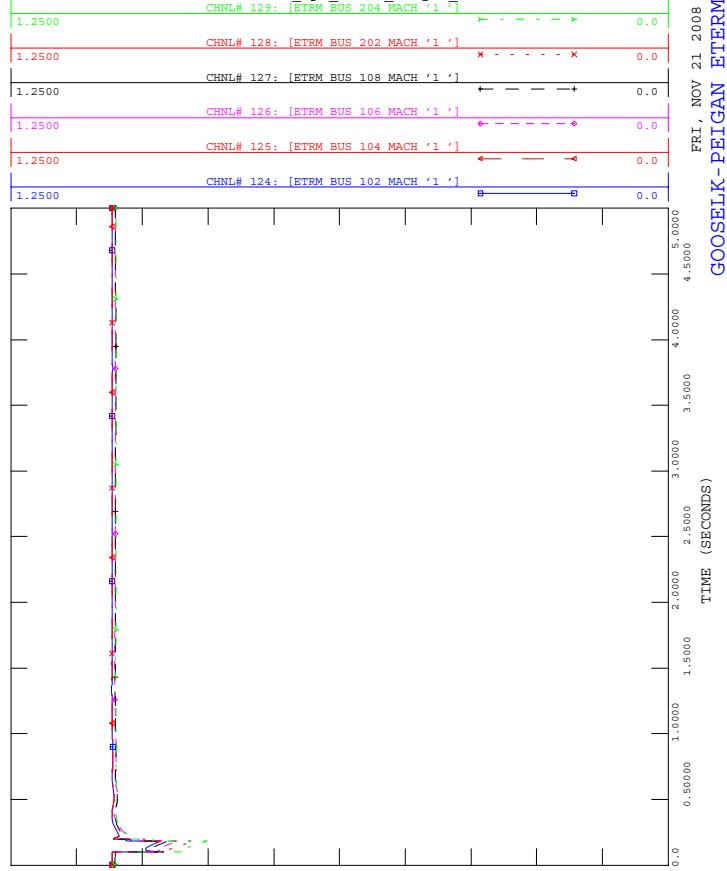
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SUBC_SUBD SPEED-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

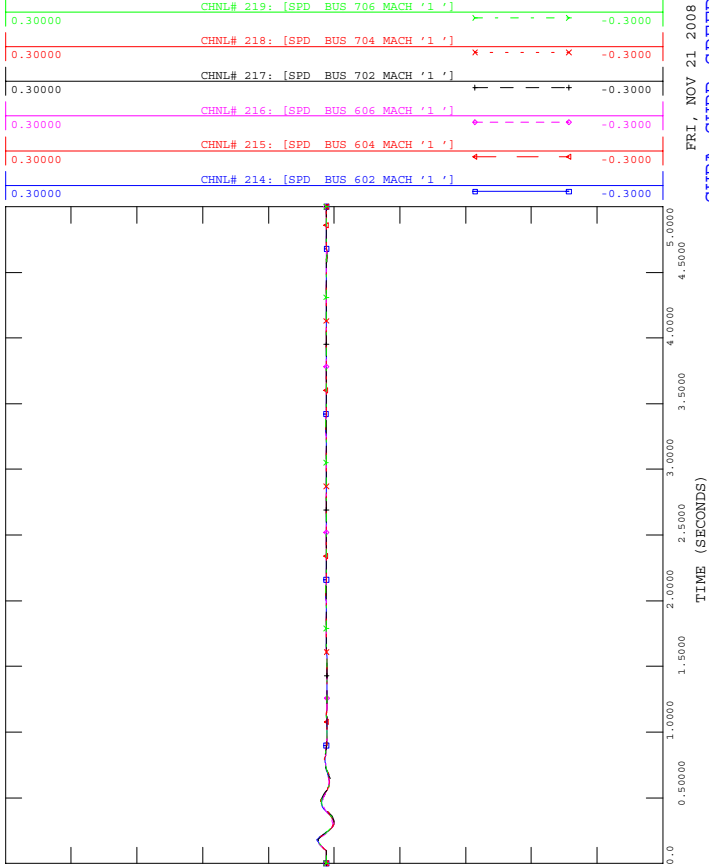
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GOOSELK-PEIGAN ETERM-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

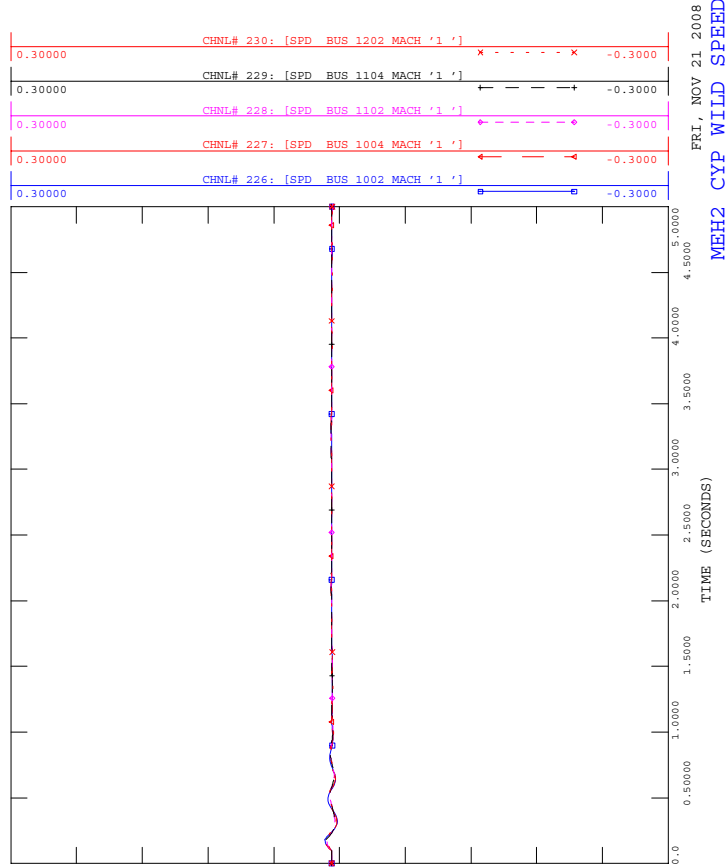
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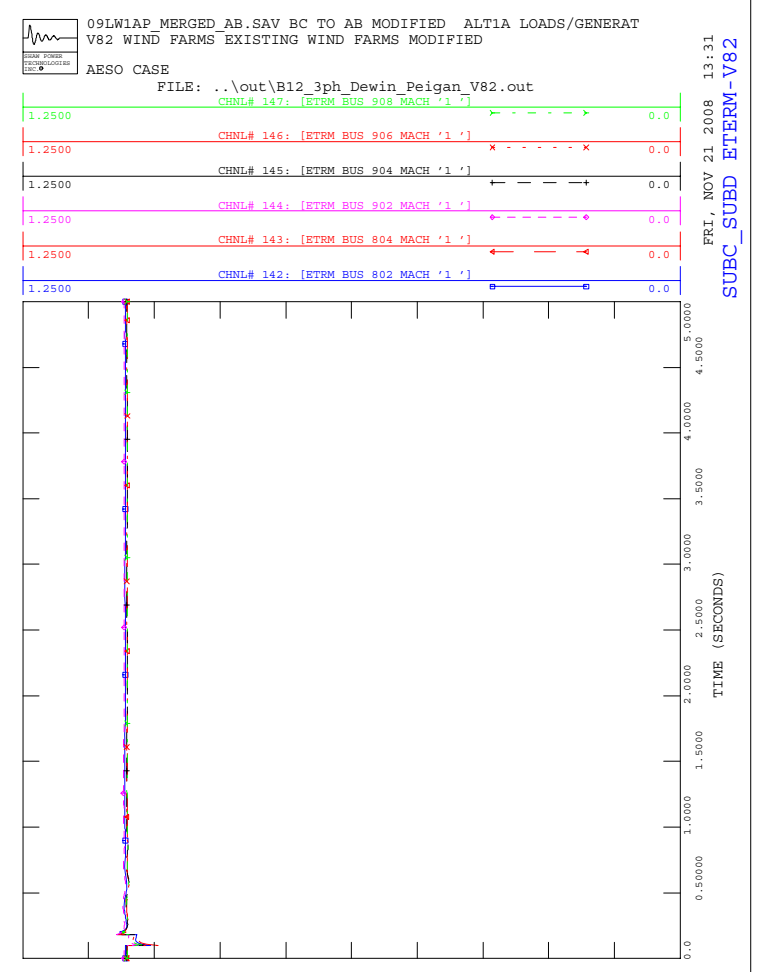
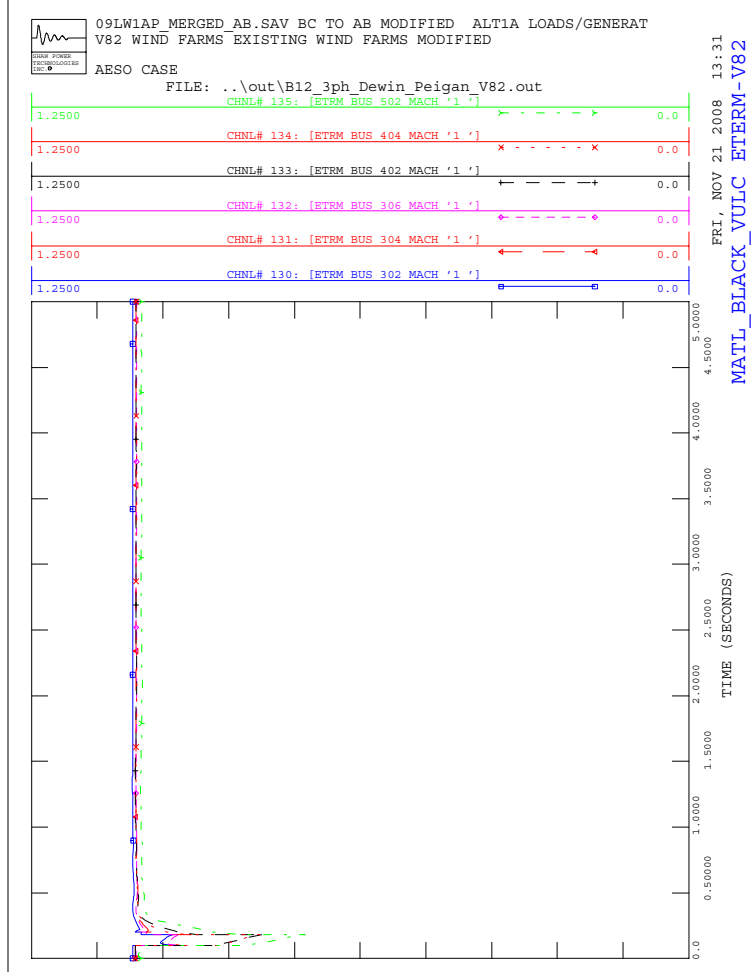
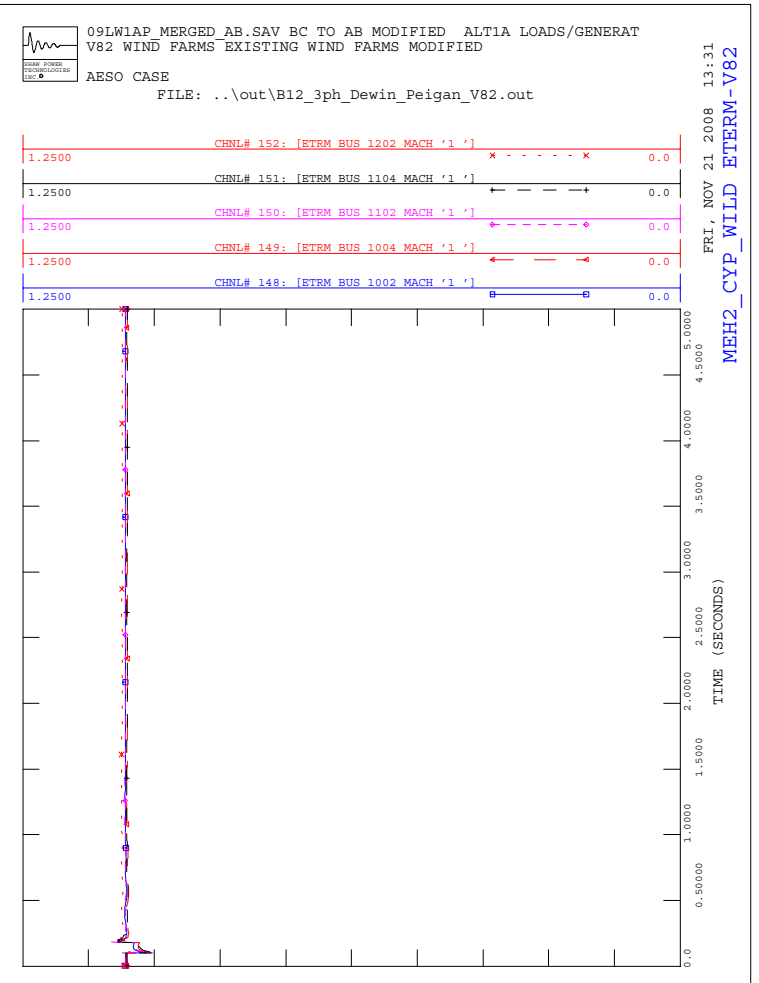
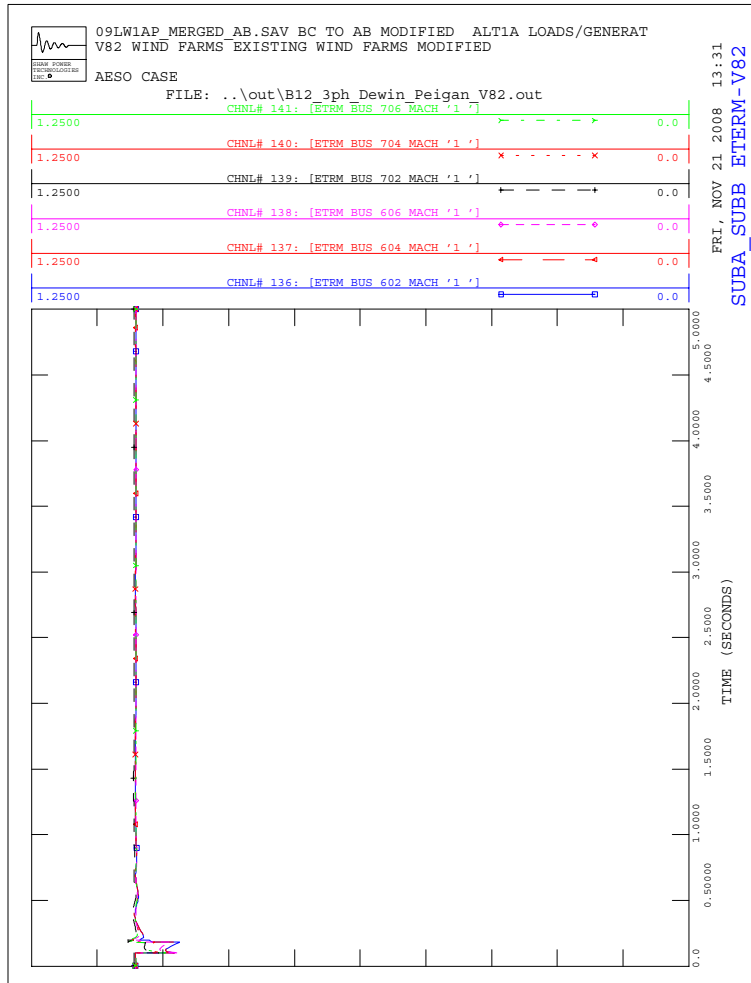
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SUBA_SUBD SPEED-V82

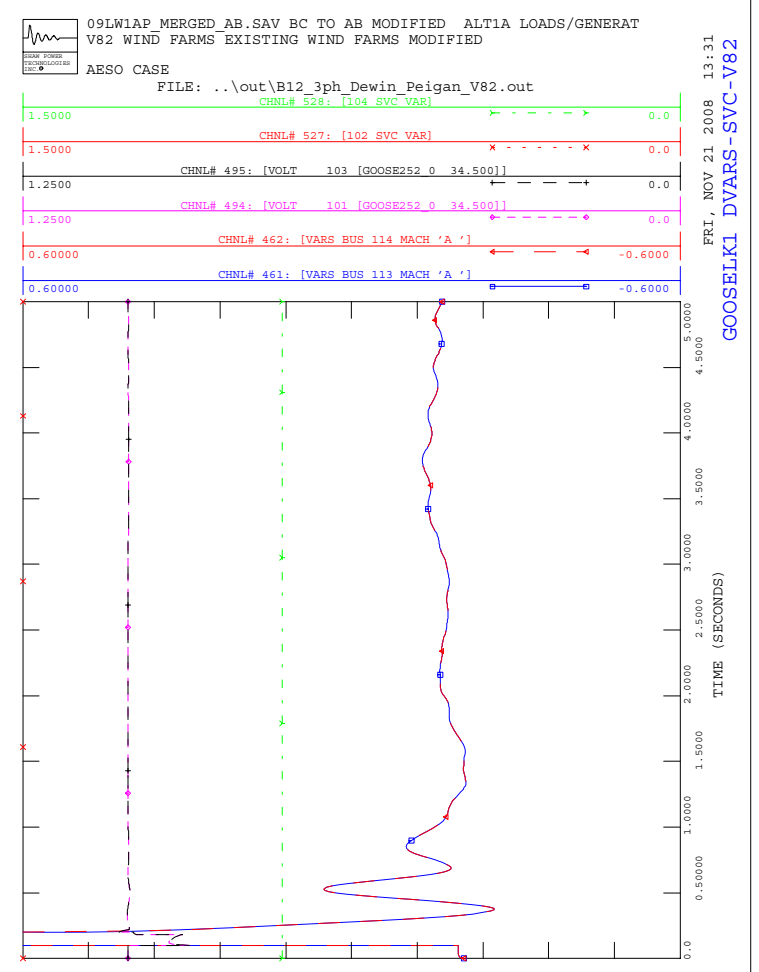
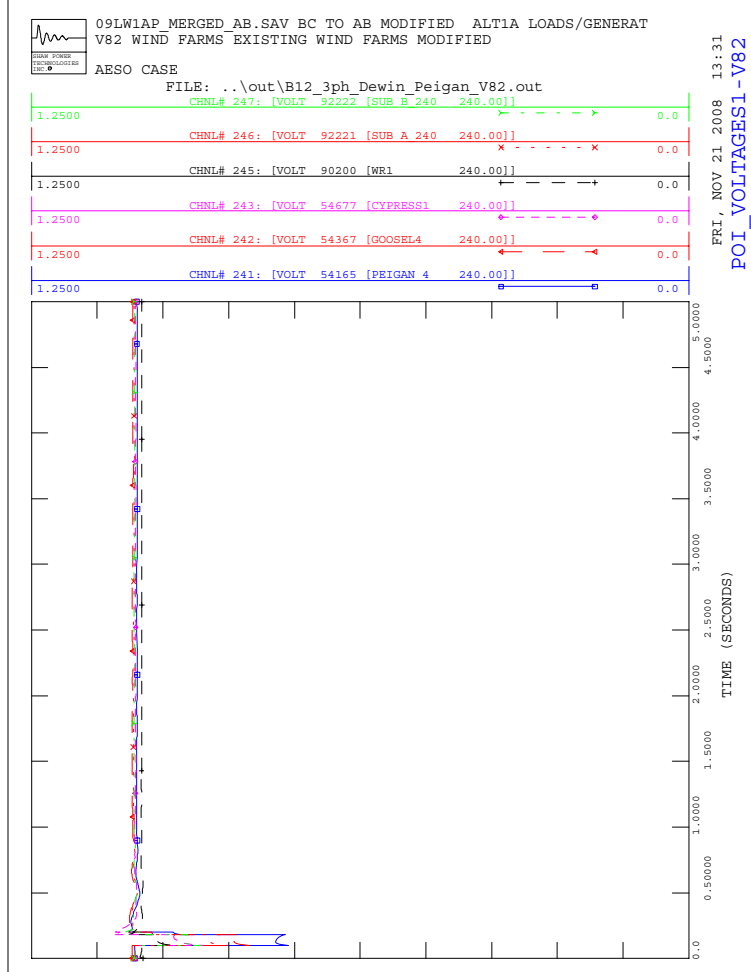
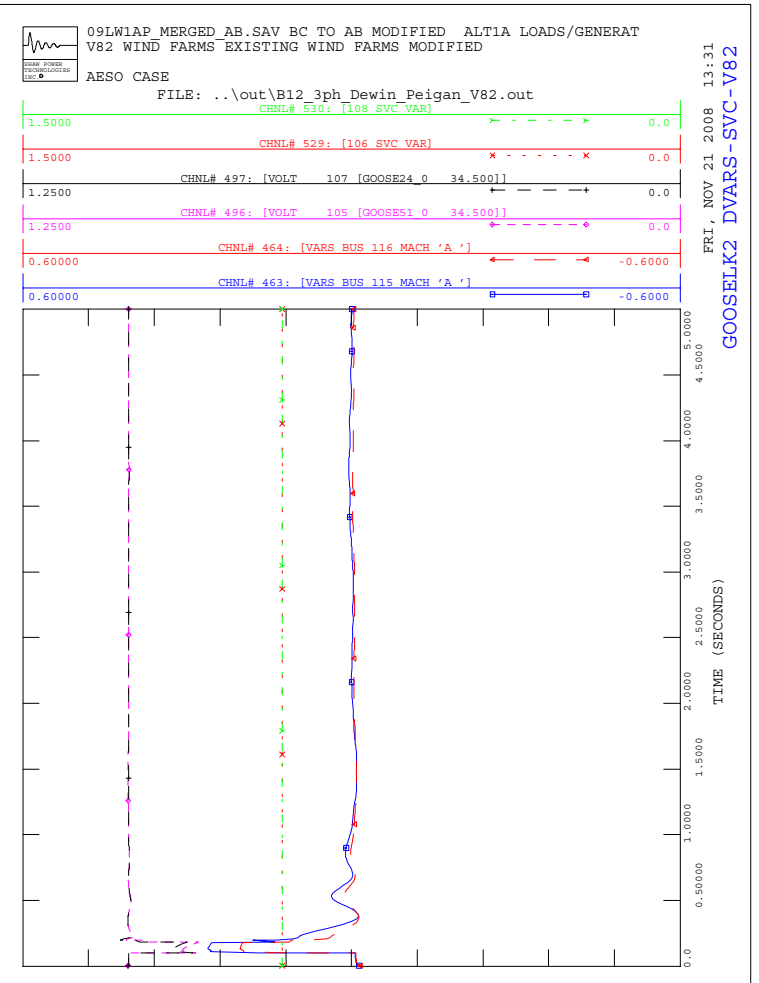
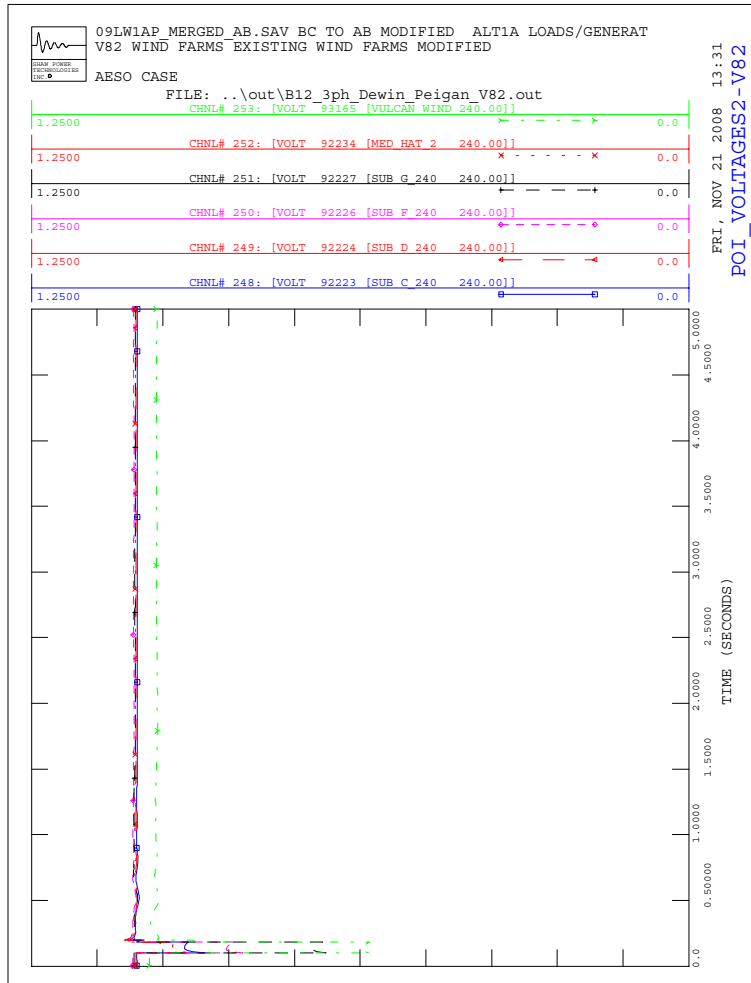
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

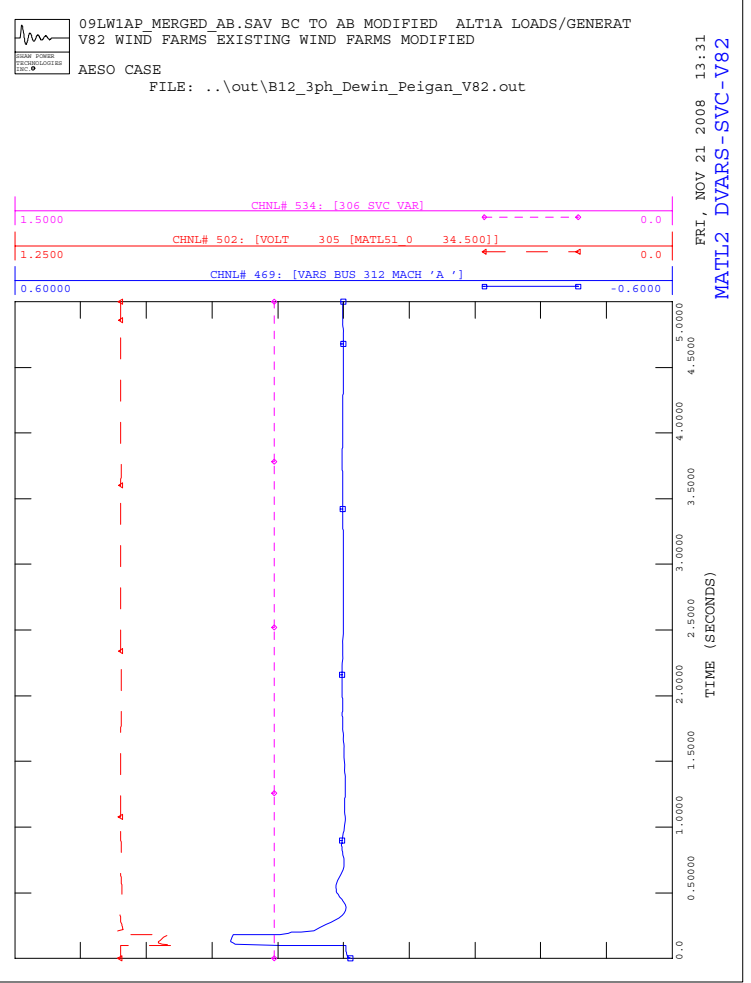
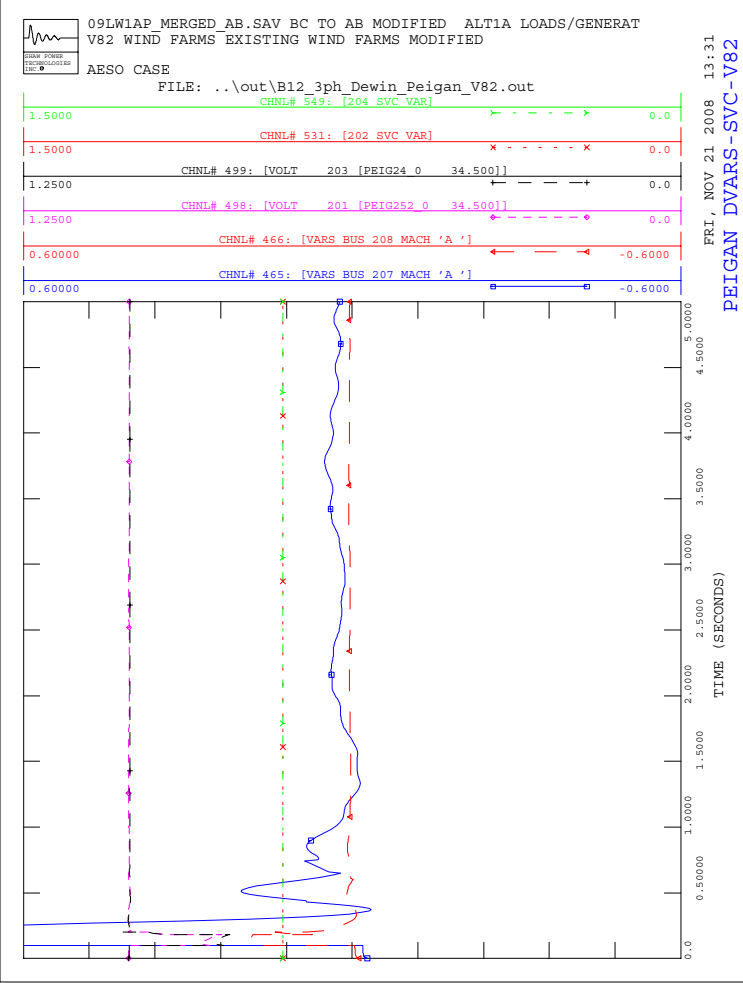
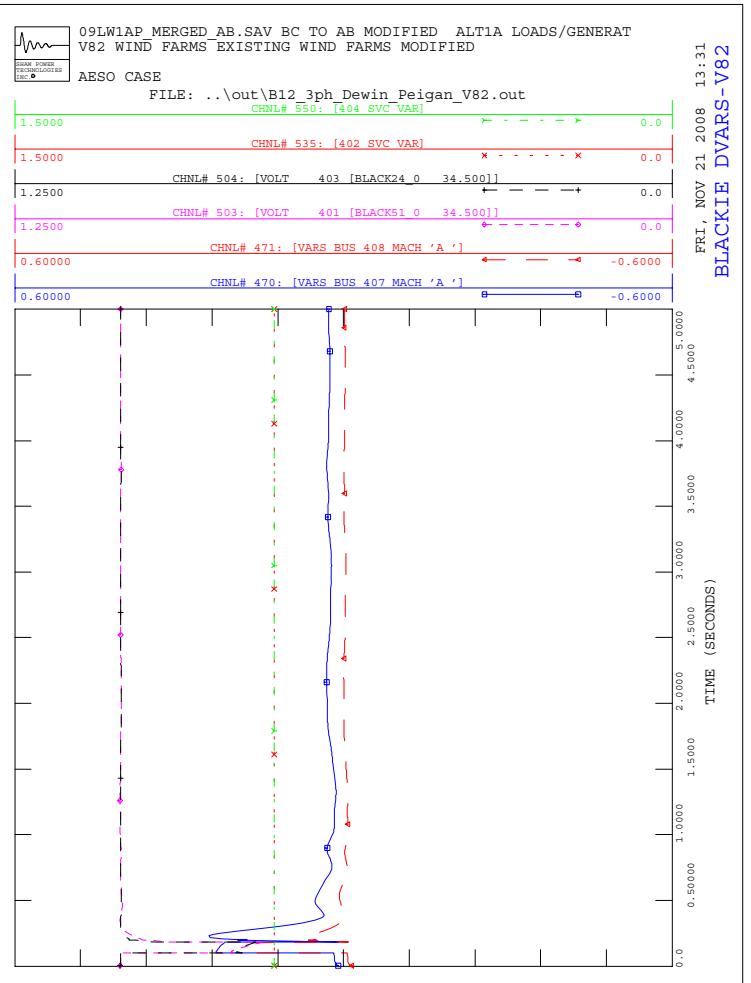
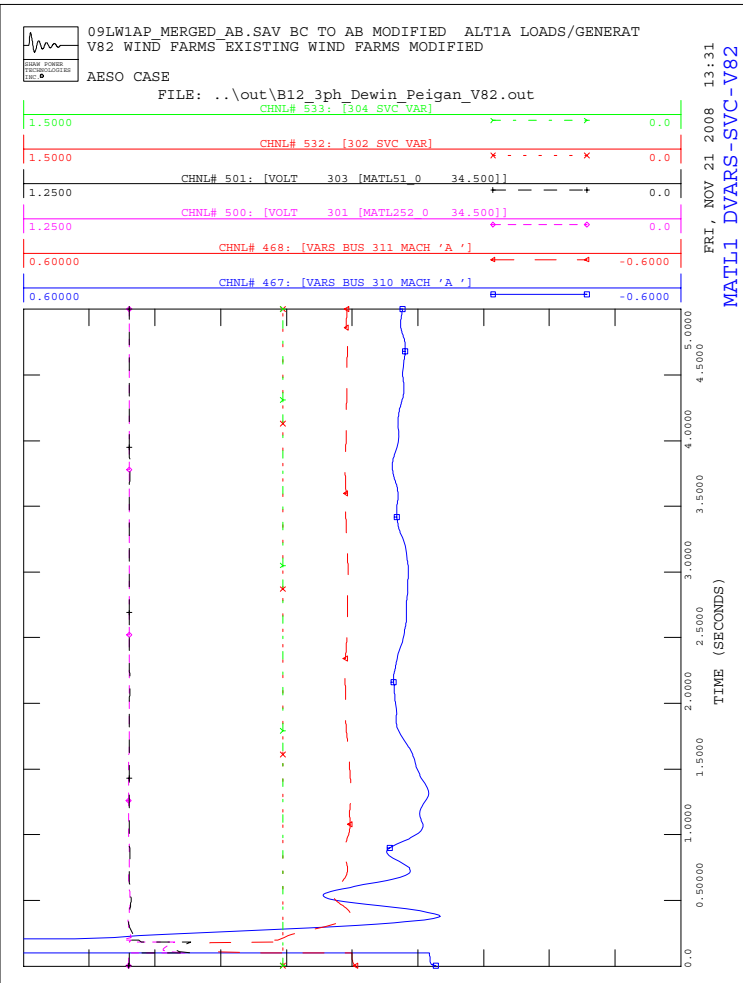
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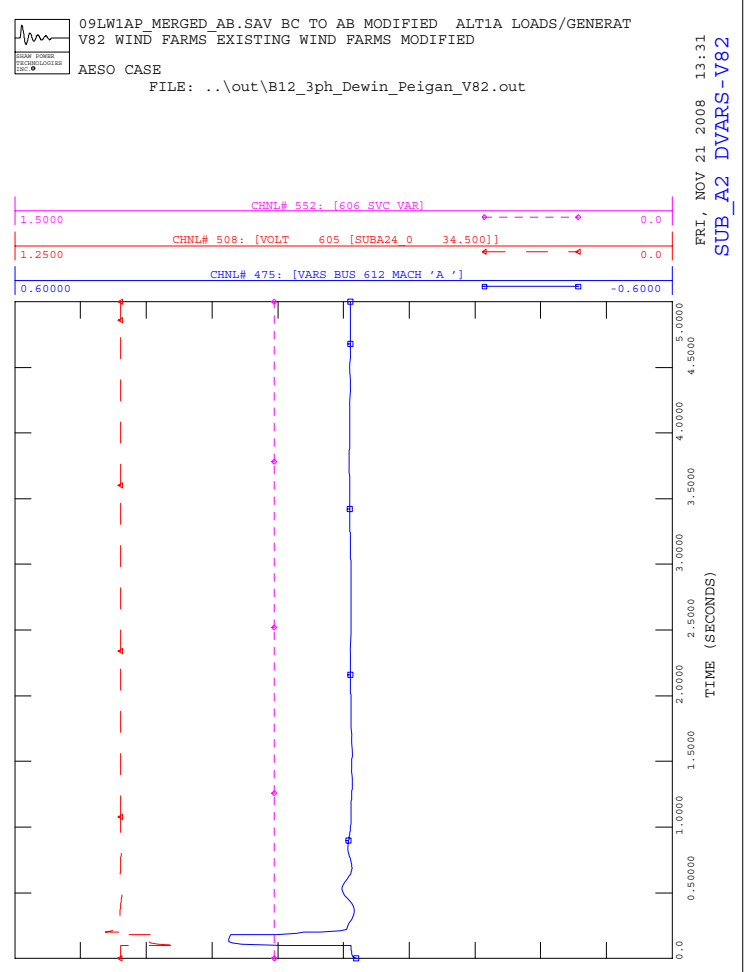
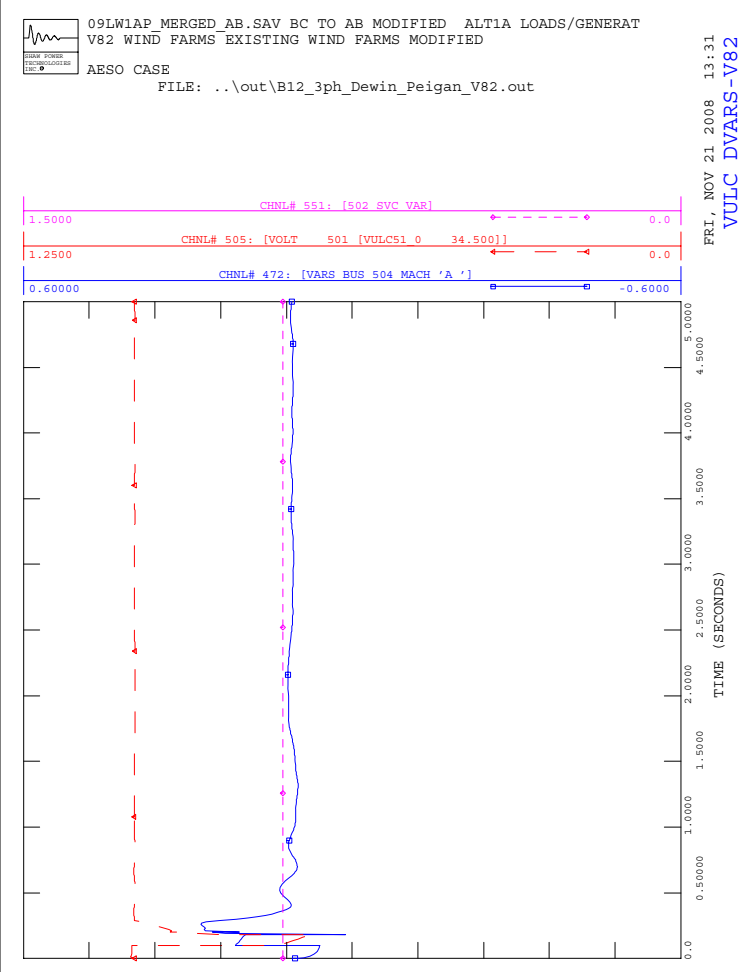
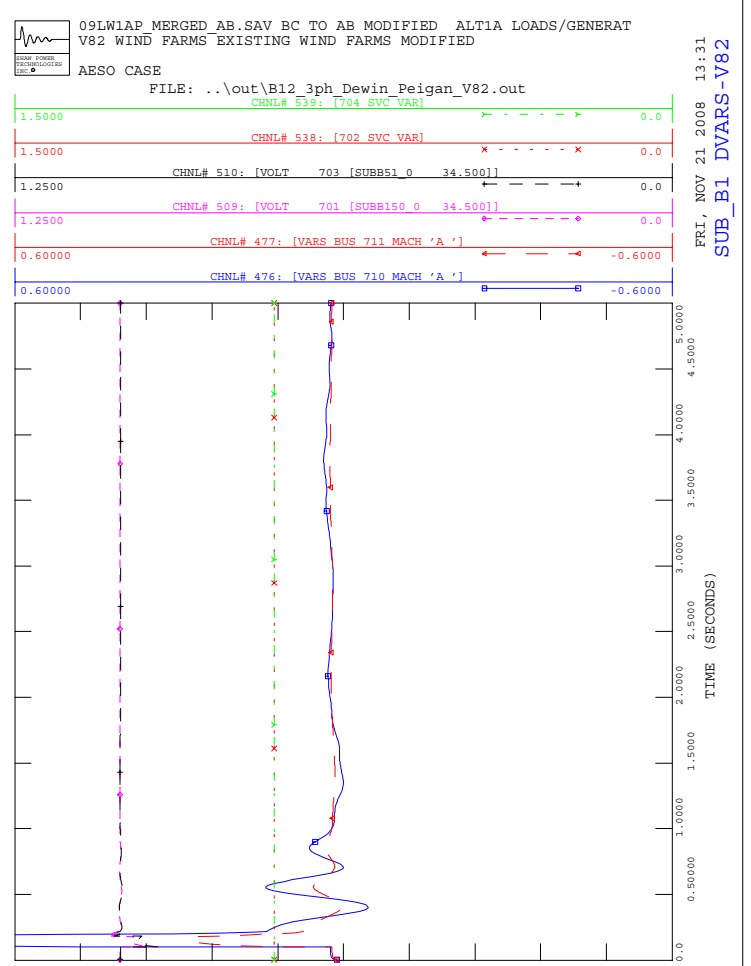
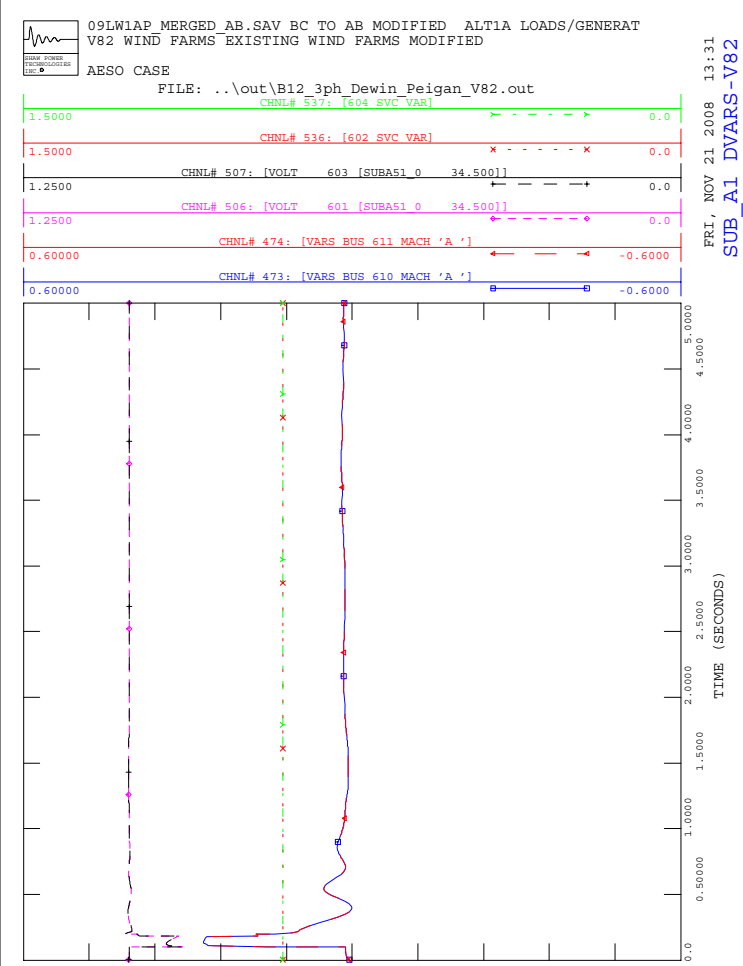


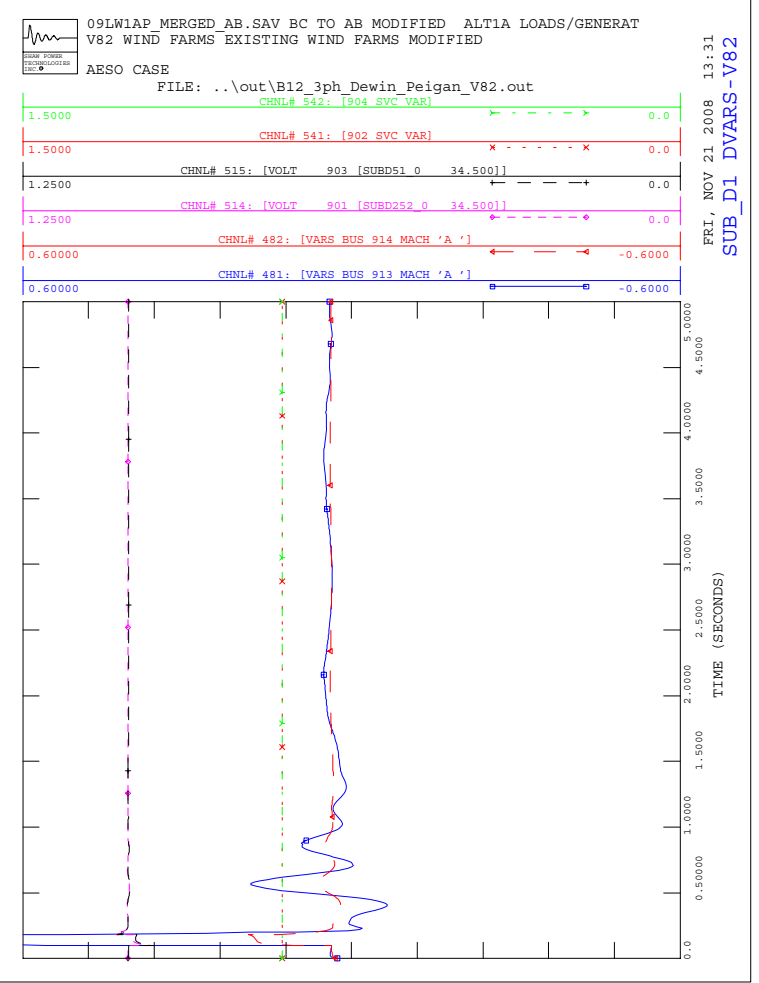
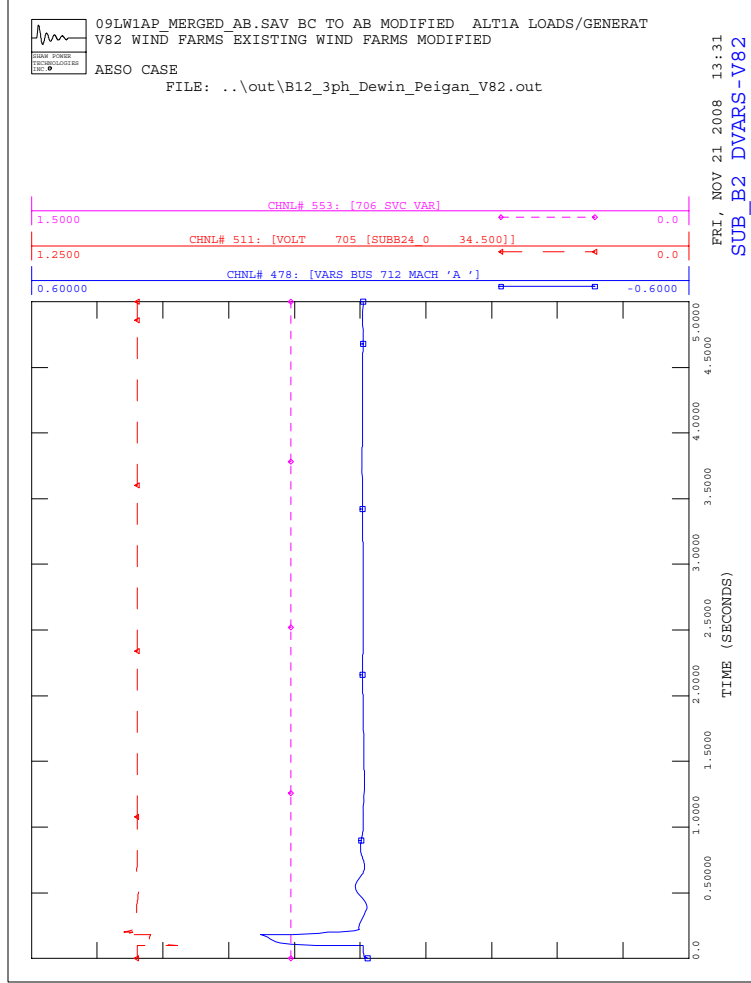
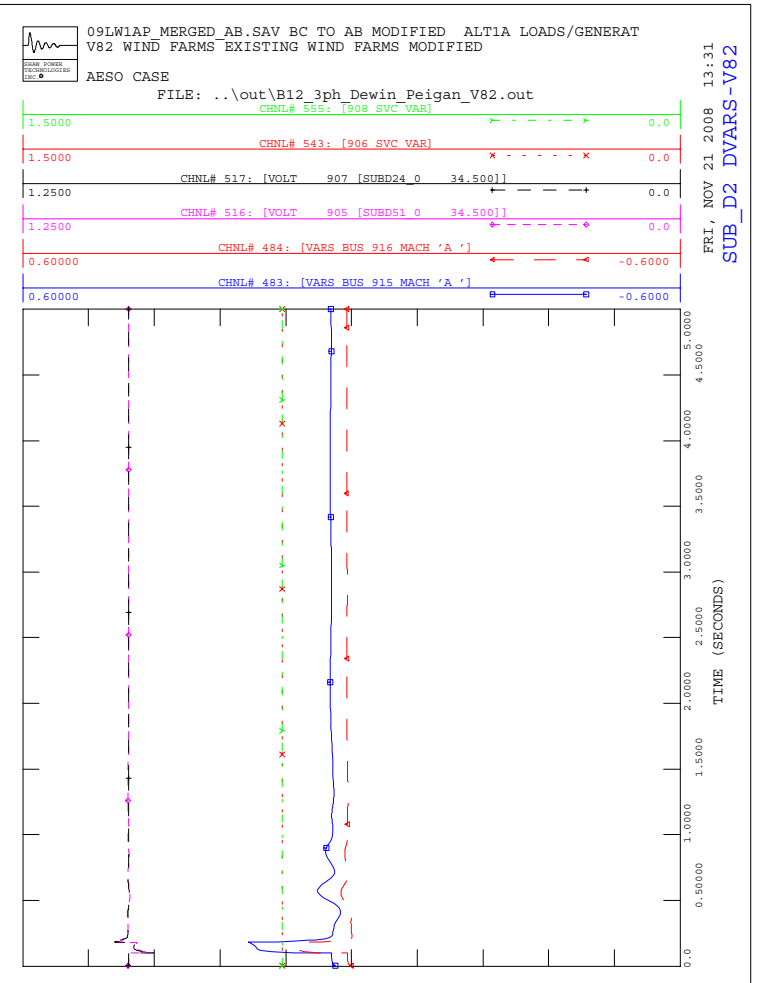
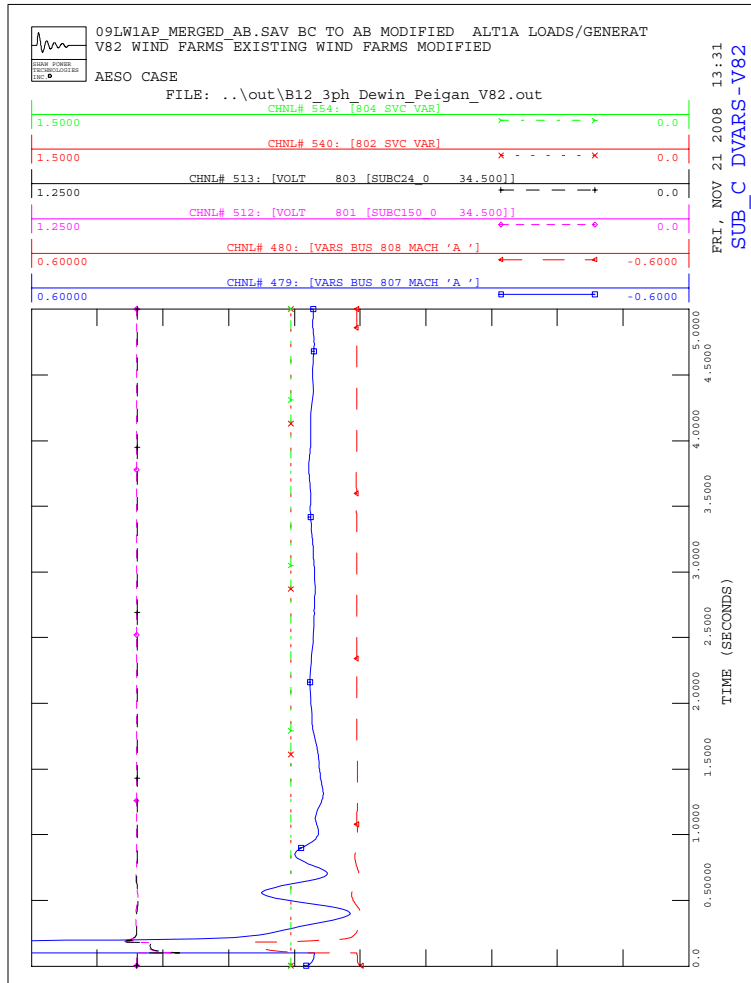
FRI, NOV 21 2008 13:31
MEH2_CYP_WILD SPEED-V82

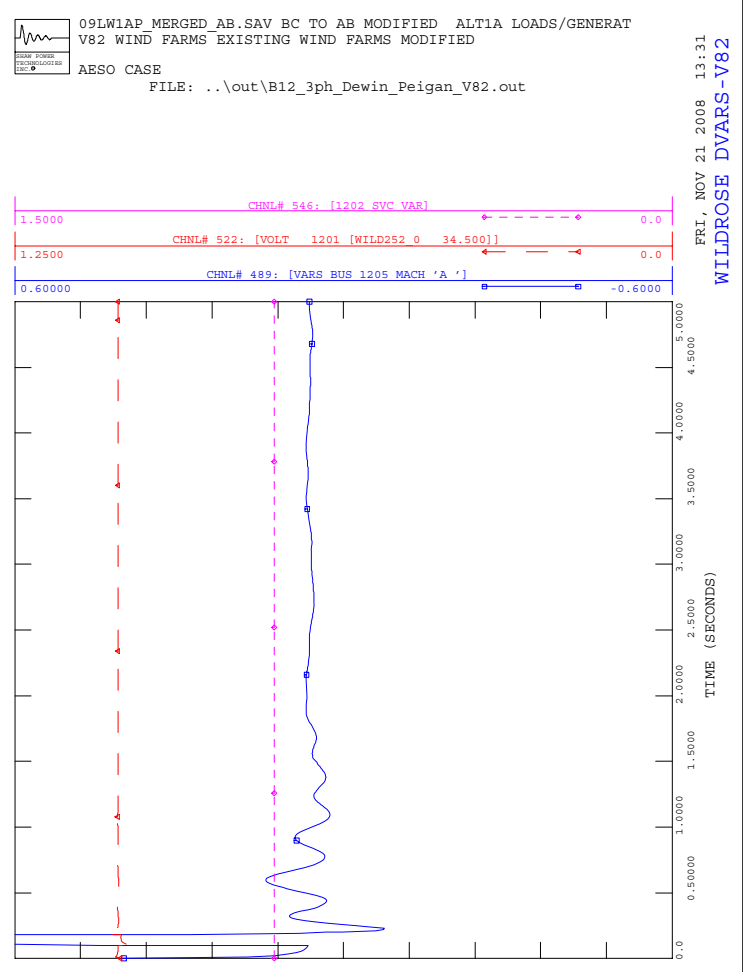
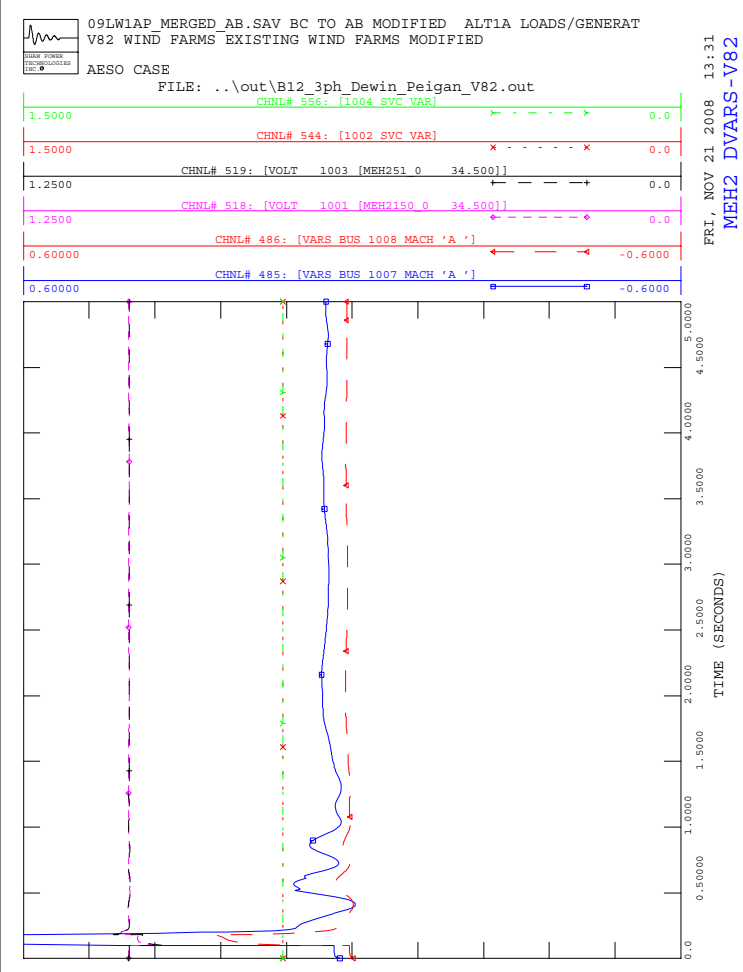
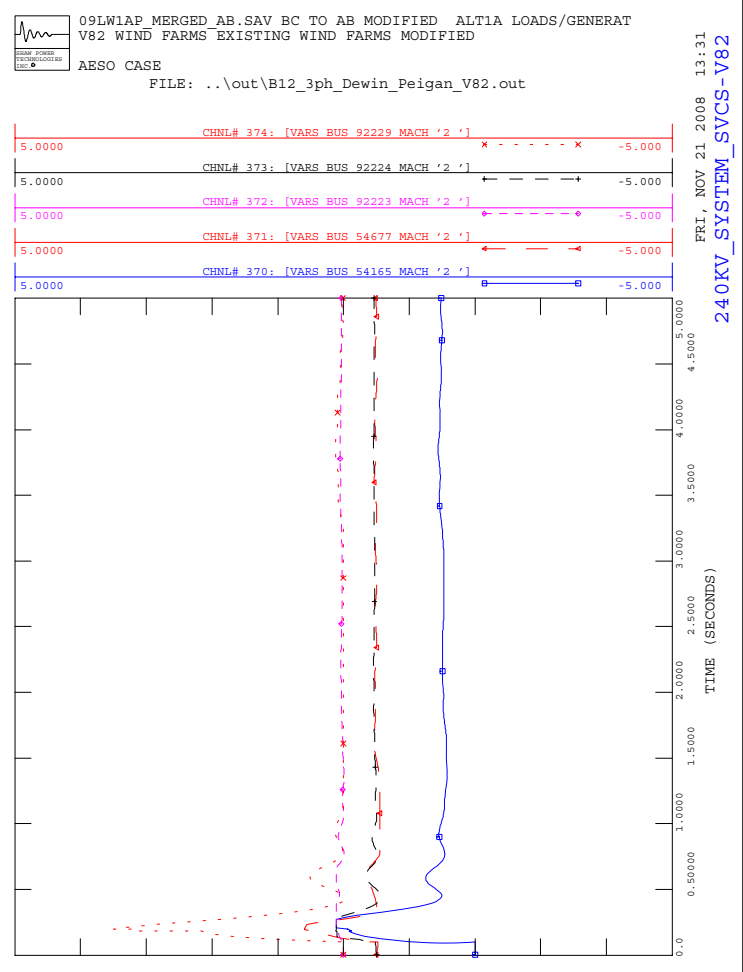
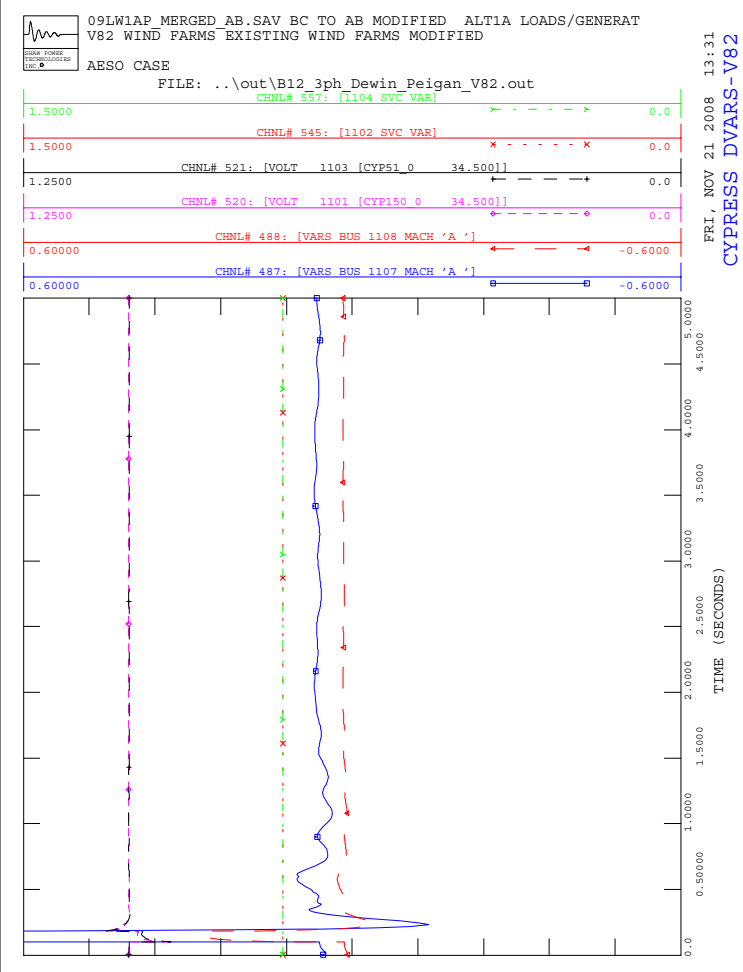








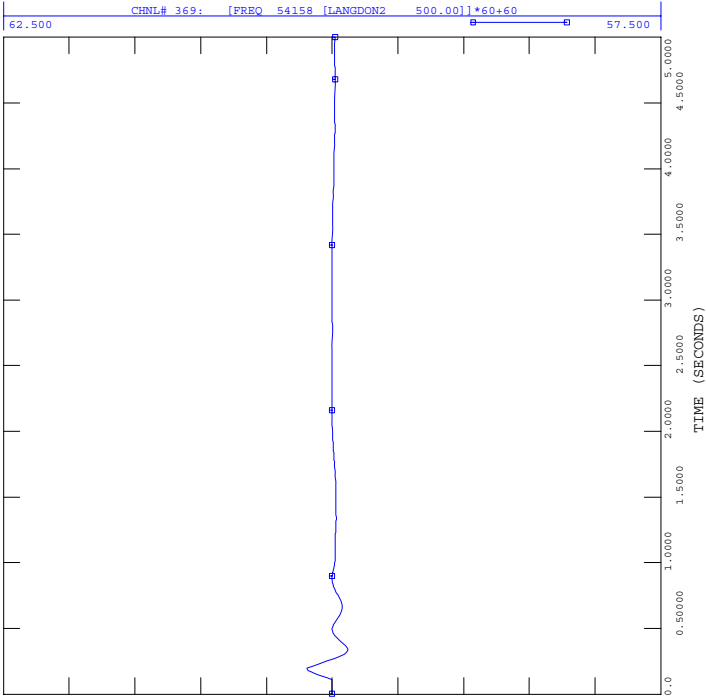






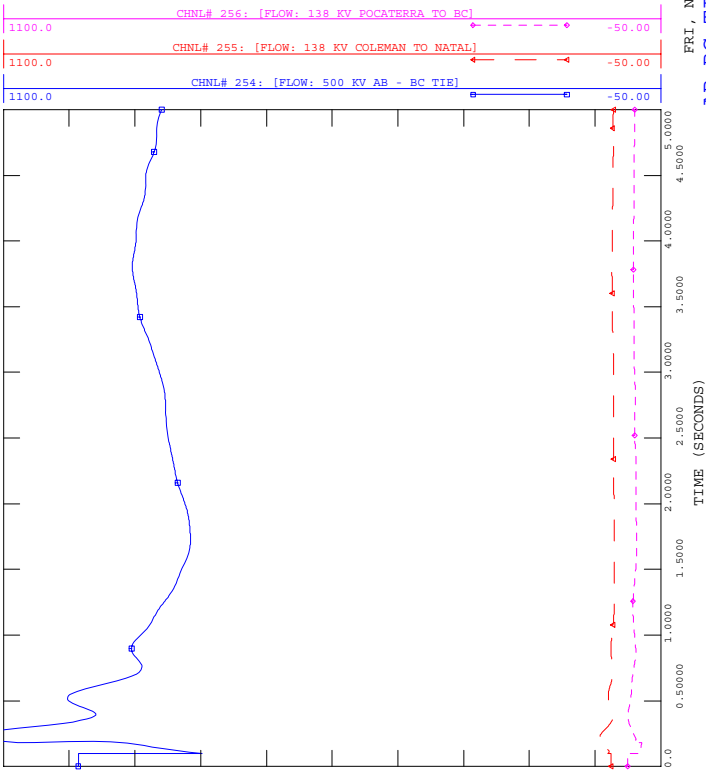
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B12_3ph_Dewin_Peigan_V82.out

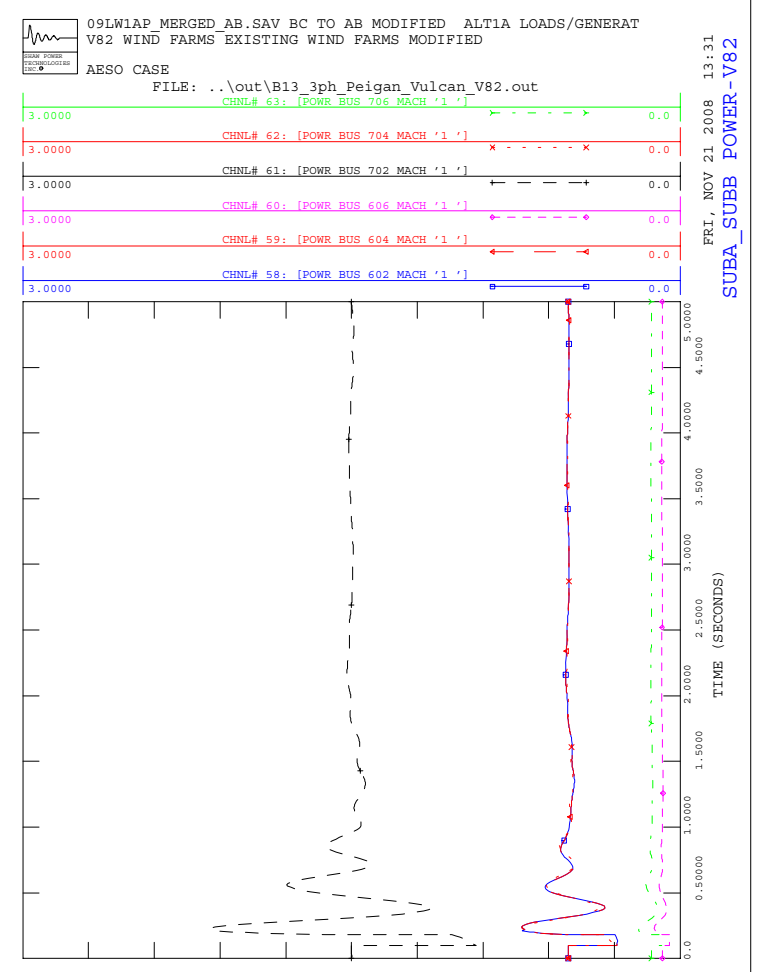
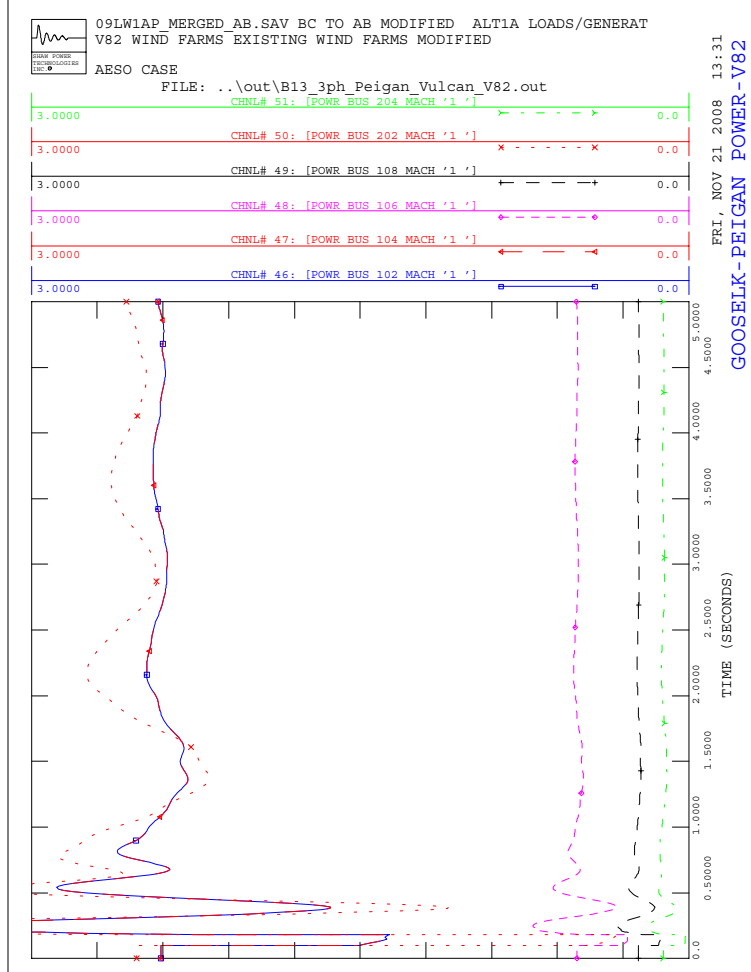
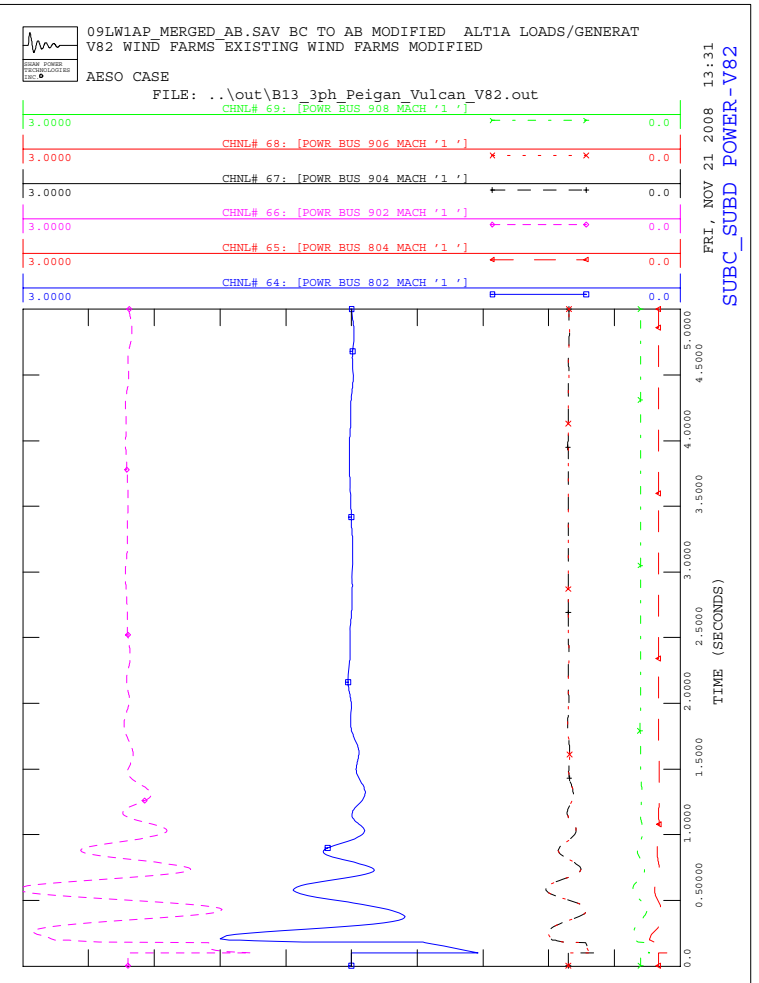
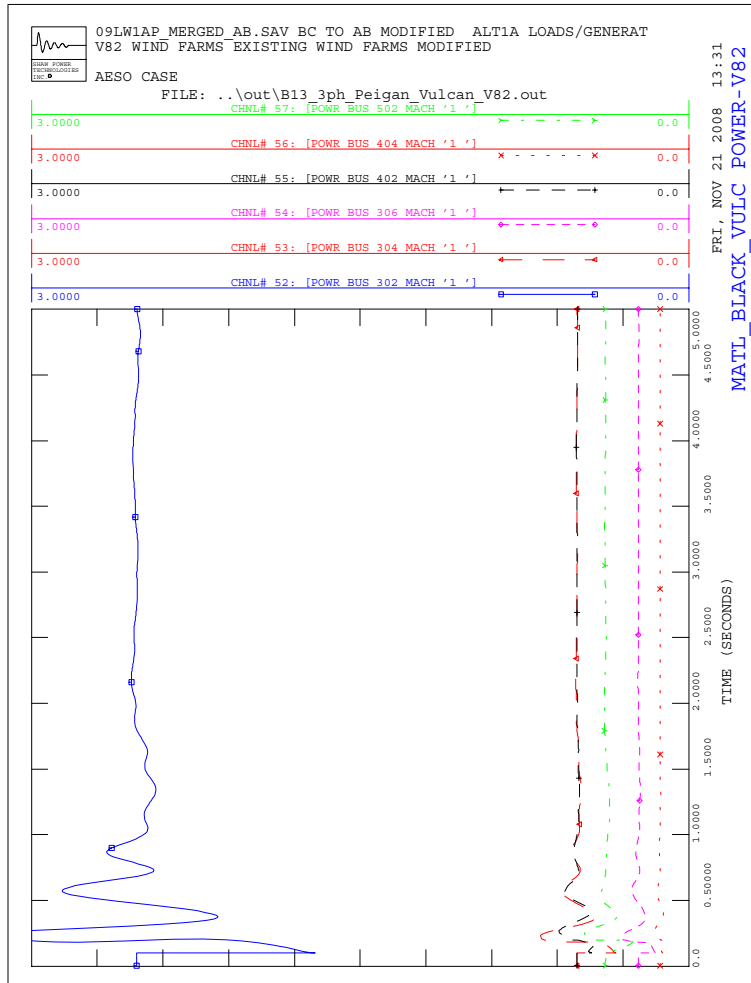
FRI, NOV 21 2008 13:31
LANGDON_FRQ-V82

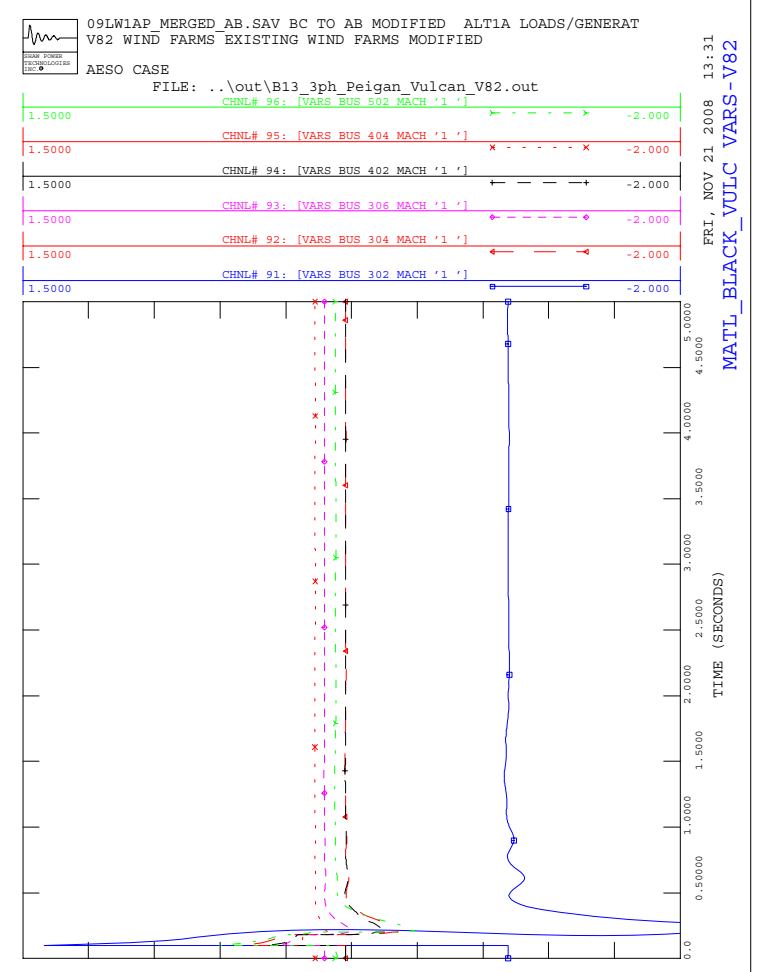
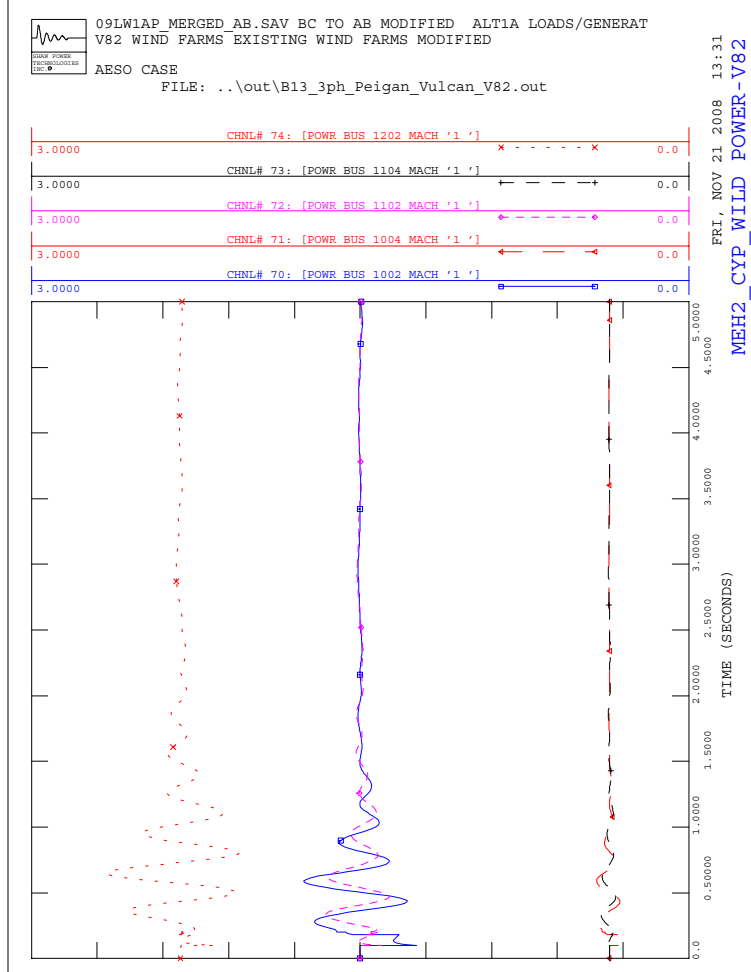
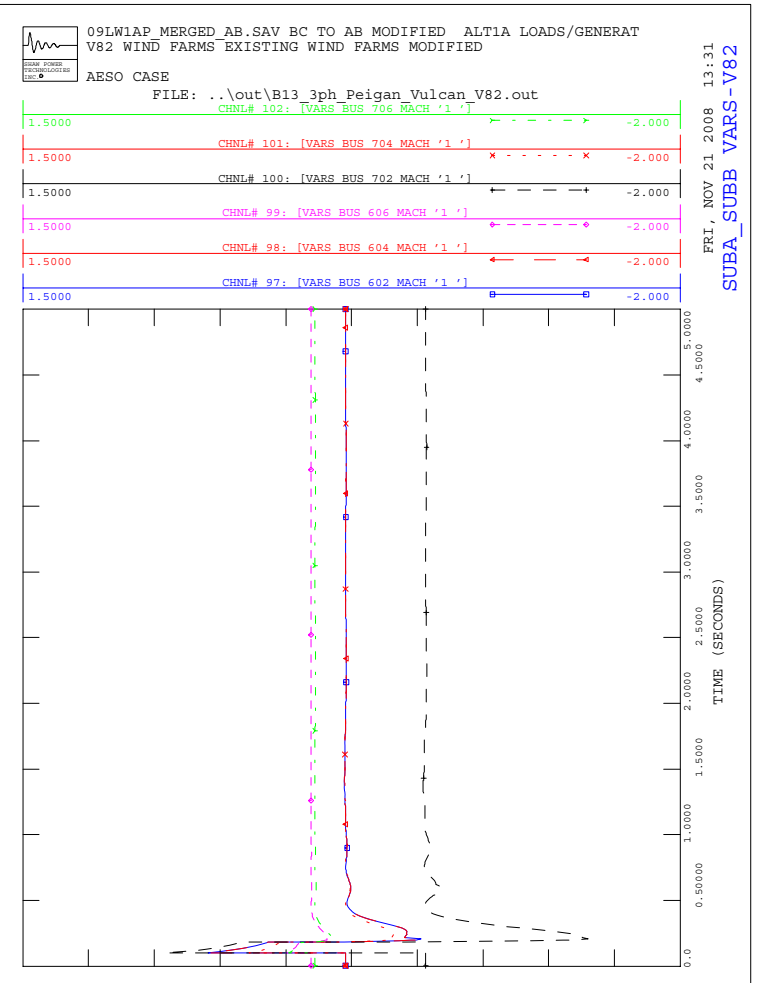
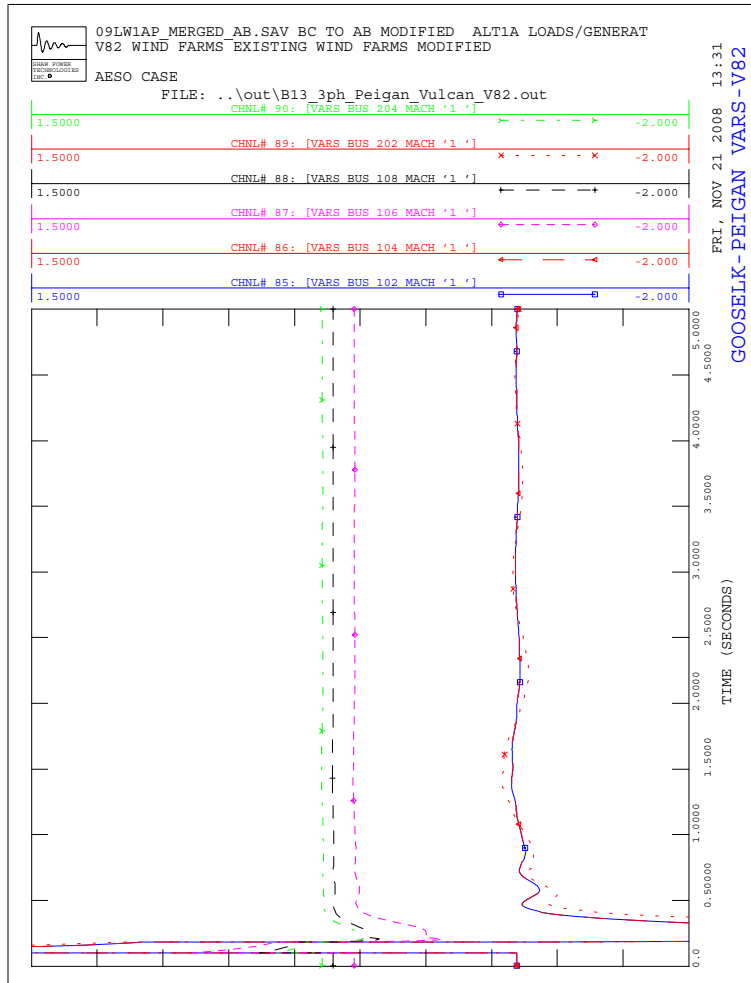


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ABSO CASE
FILE: ..\out\B12_3ph_Dewin_Peigan_V82.out

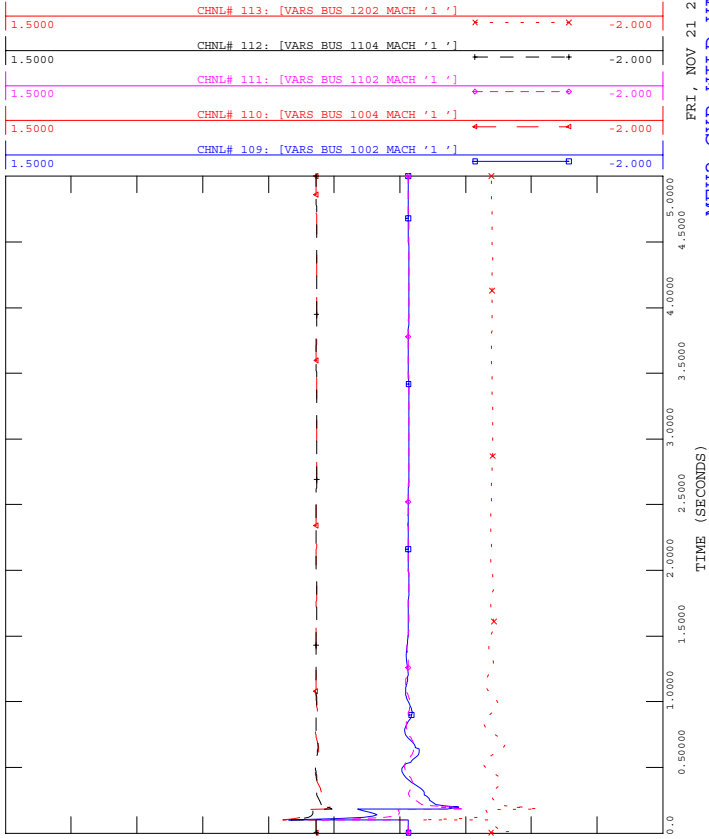
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AB_BC_TIE_FLOWS-V82





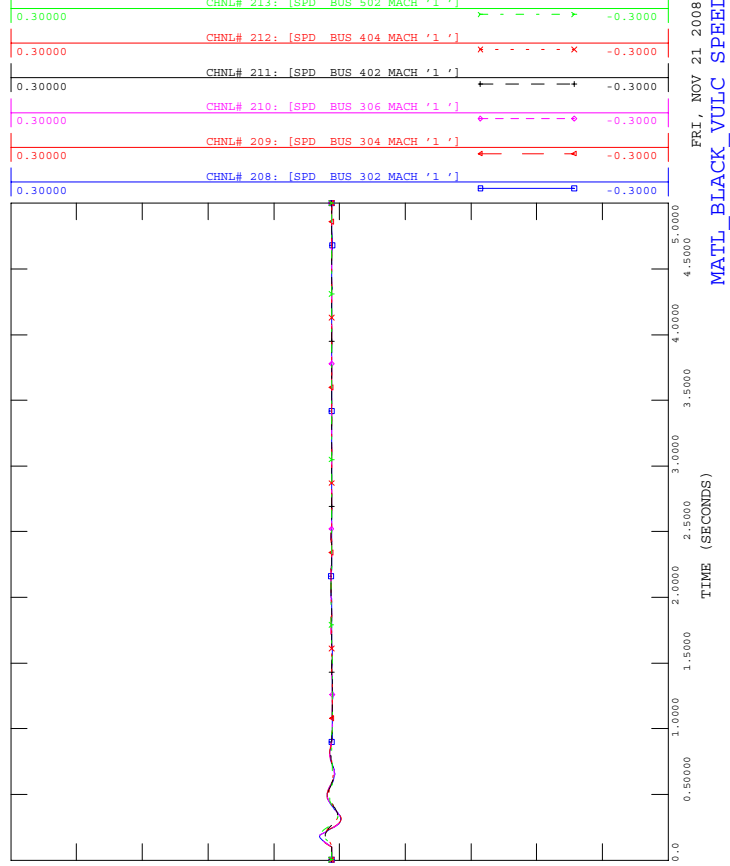


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 AESO CASE
 FILE: ..\out\B13_3ph_Peigan_Vulcan_V82.out



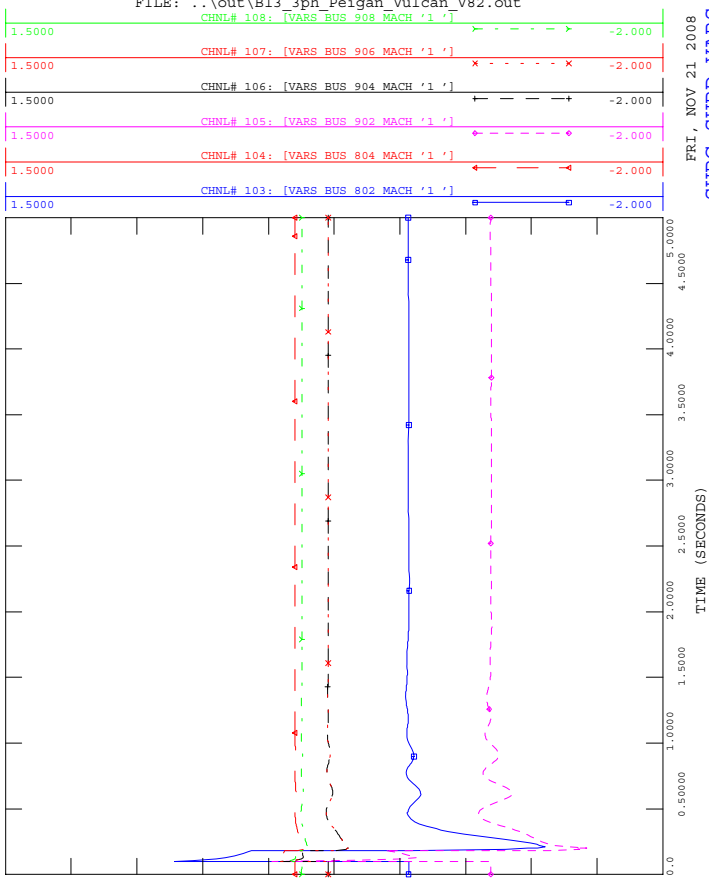
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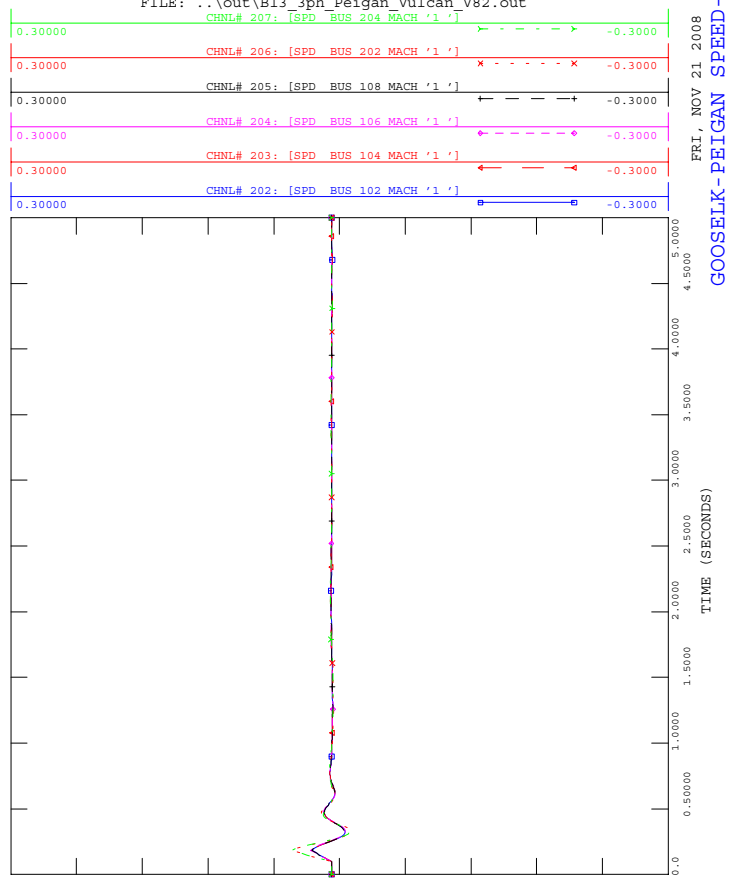
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 MAIL_BLACK_VULC_SPEED-V82

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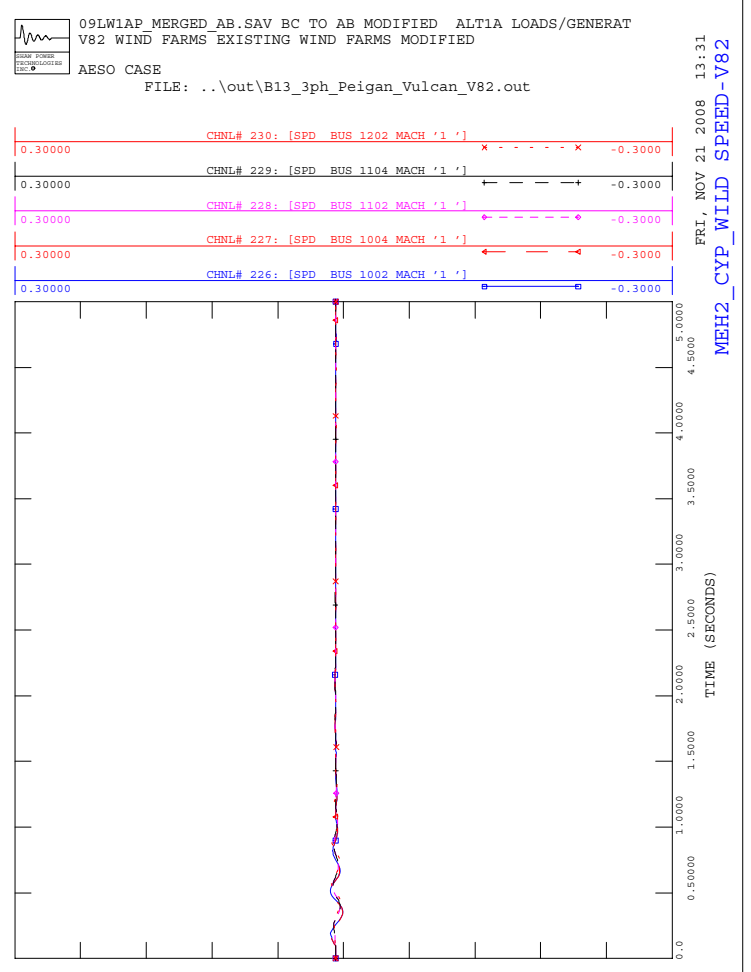
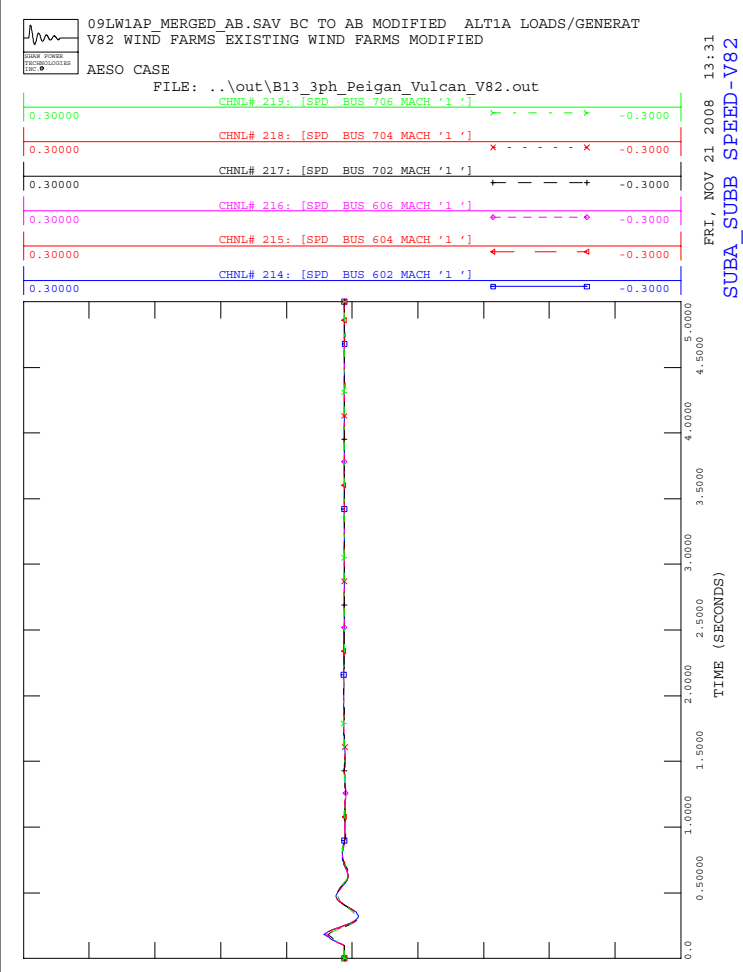
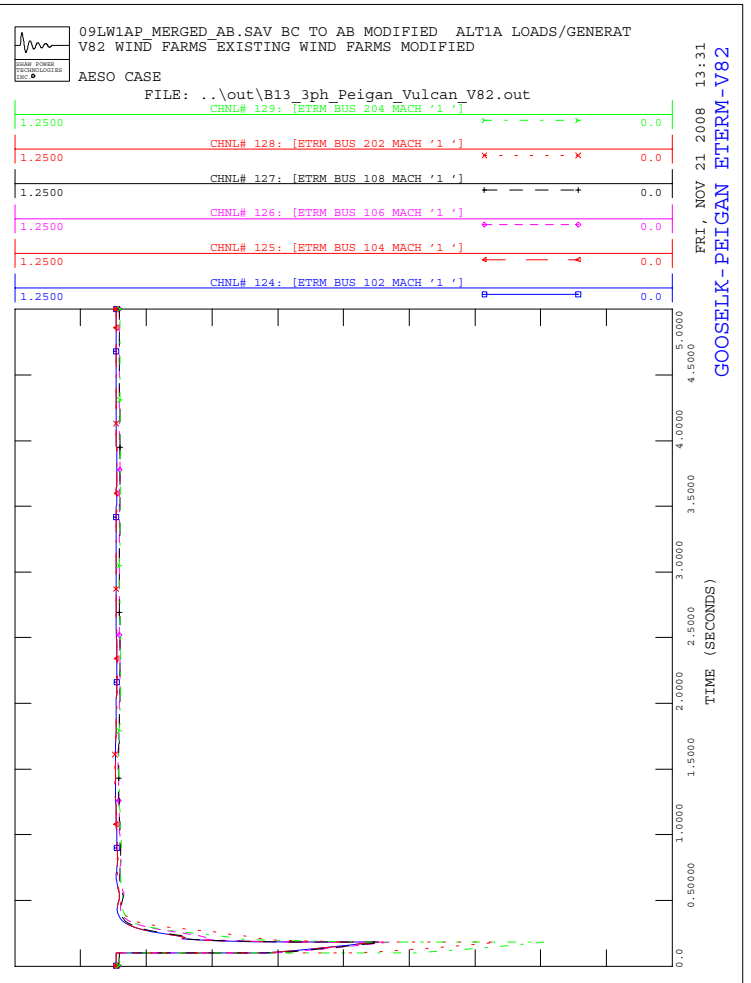
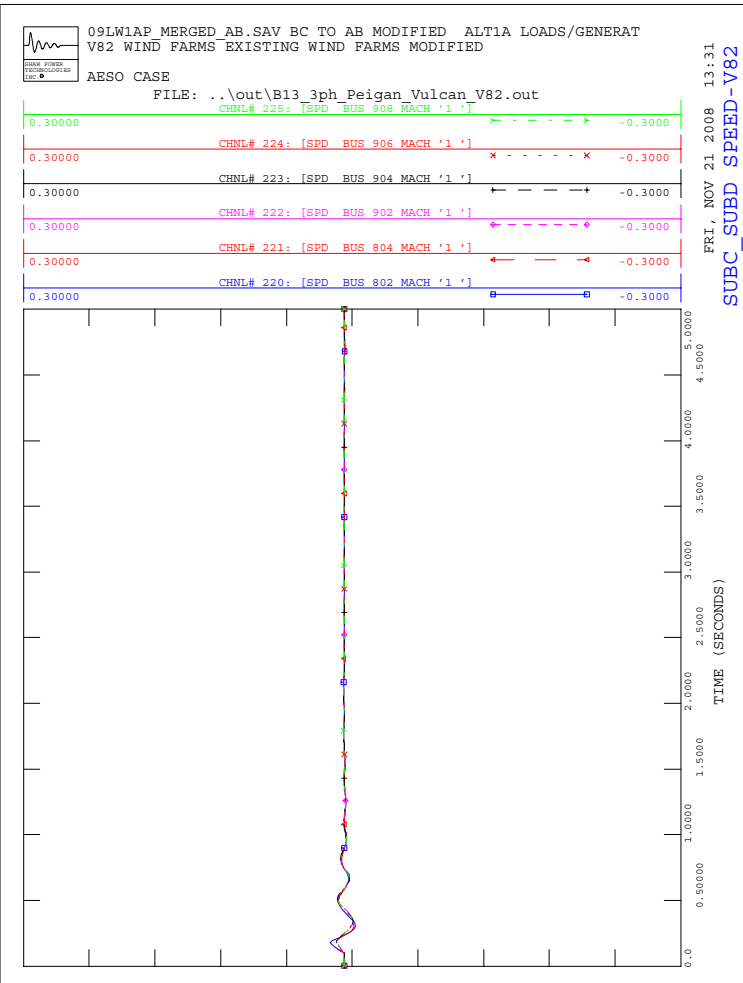


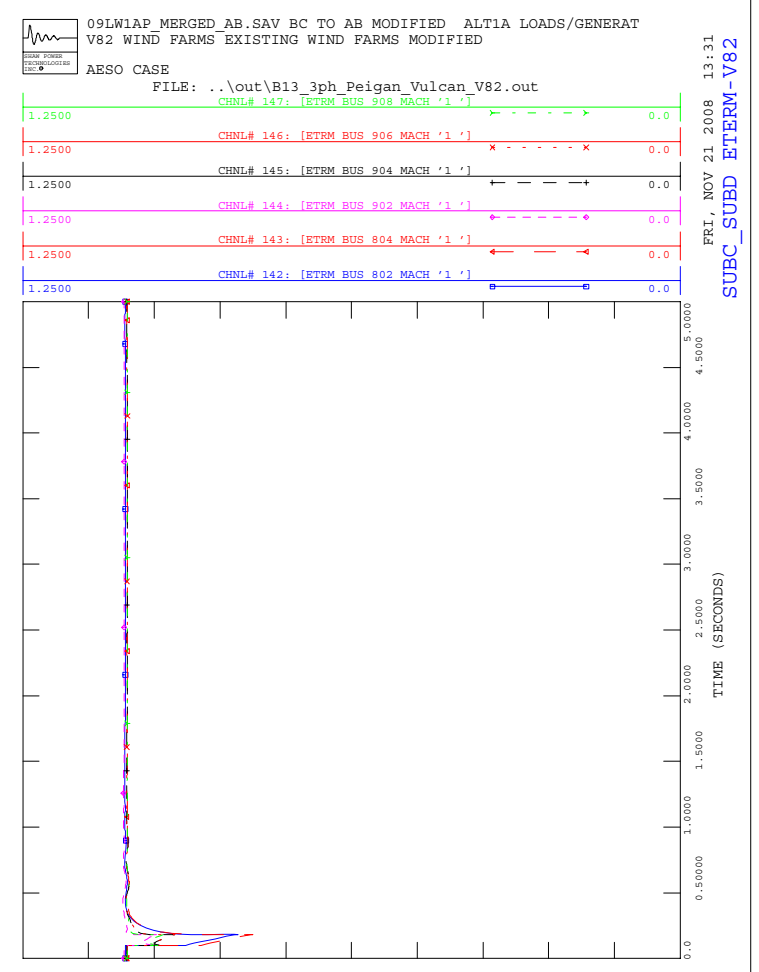
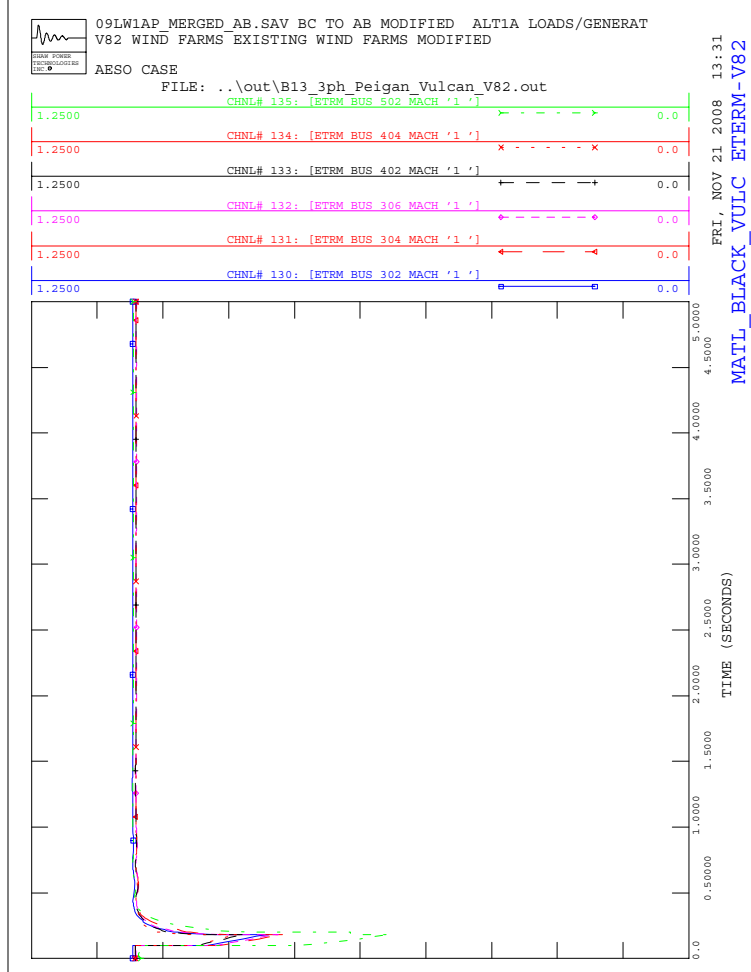
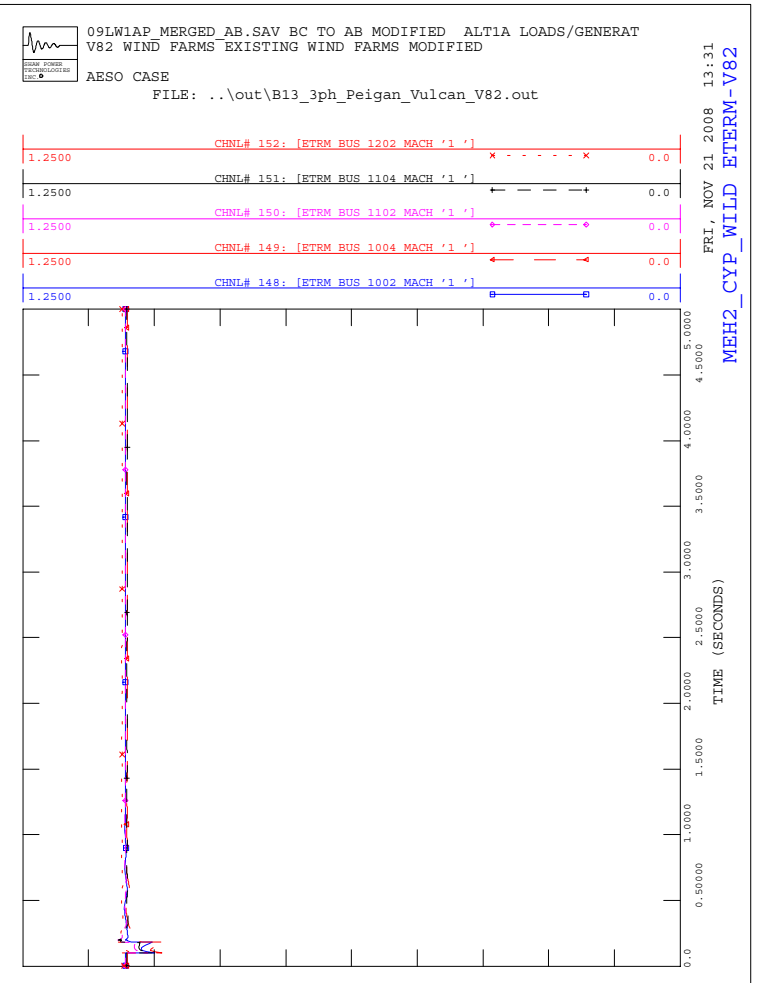
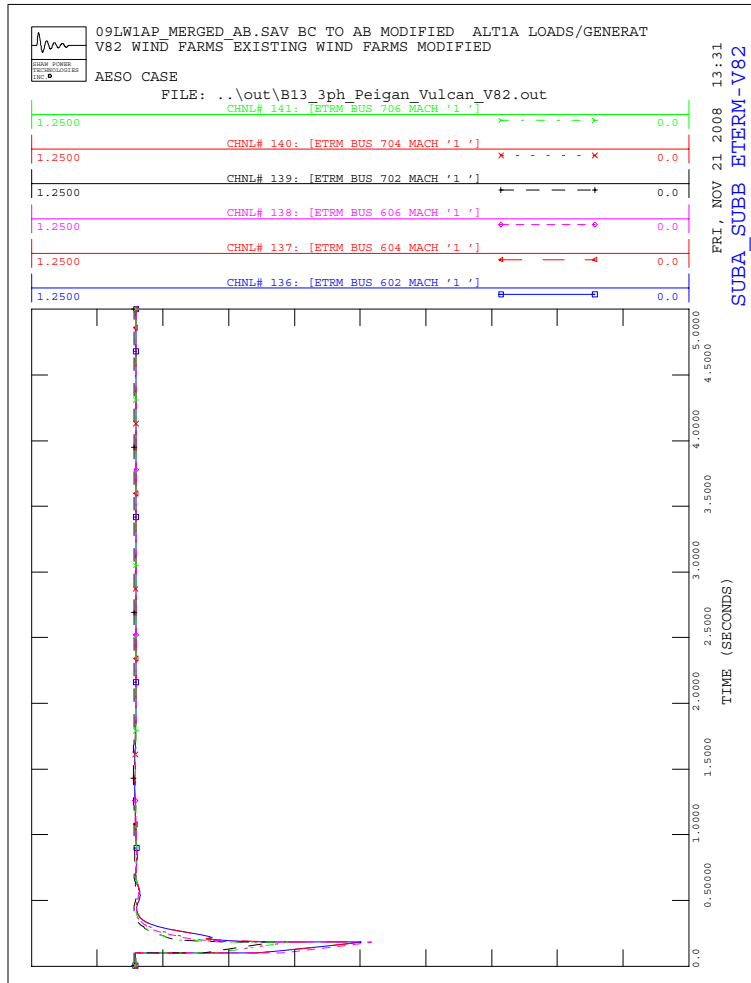
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 SUBC_SUBD_VARS-V82

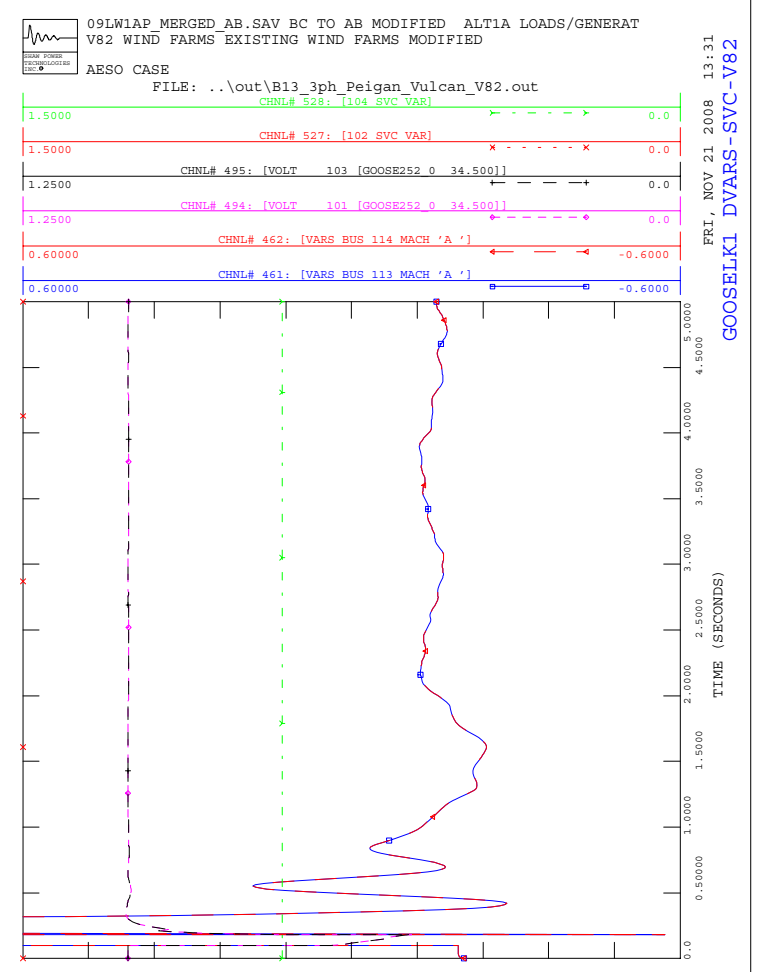
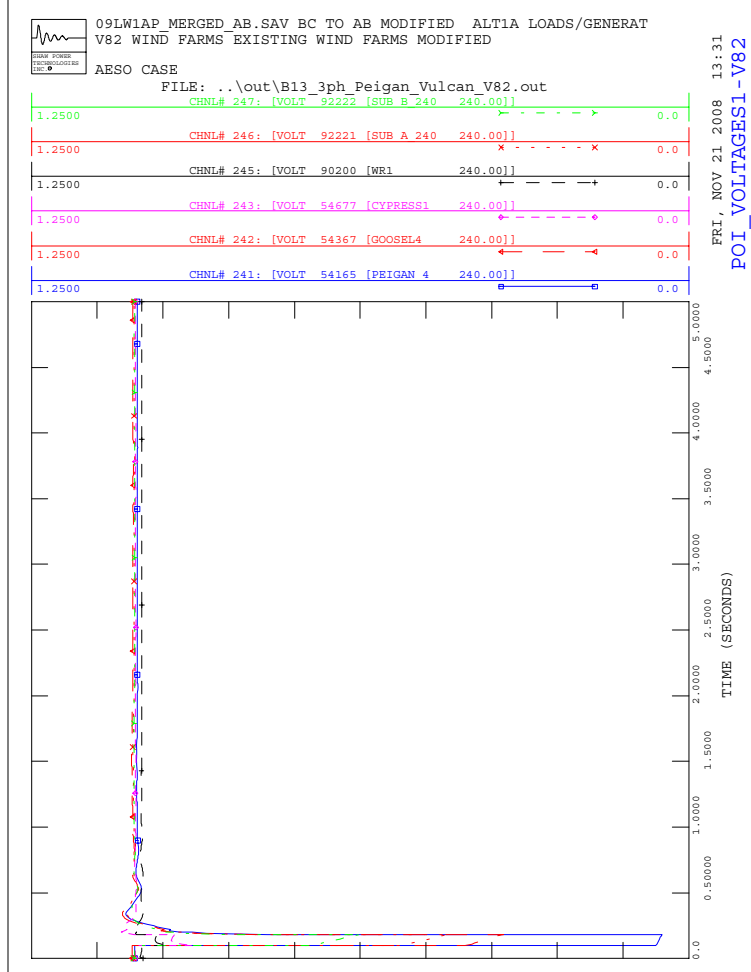
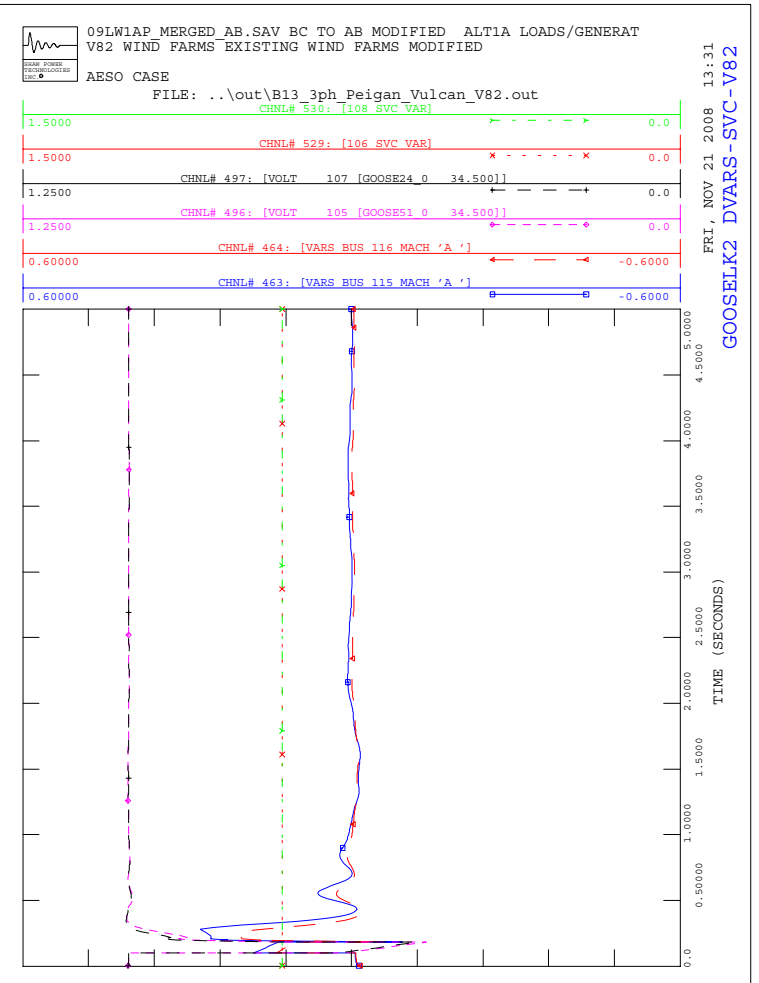
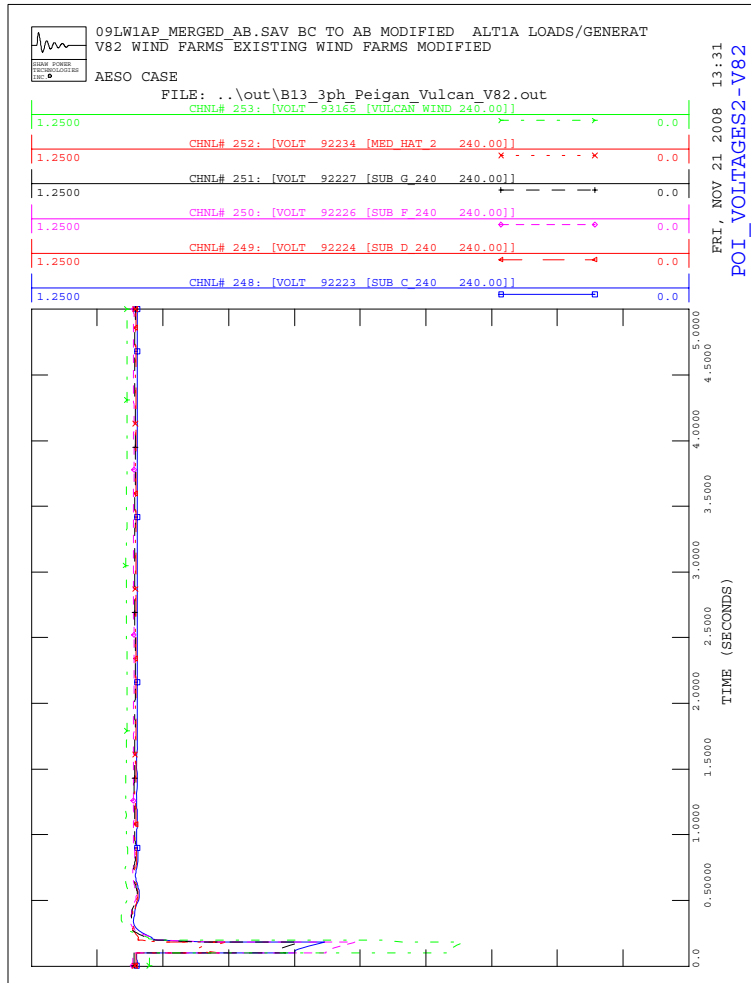
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
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 AESO CASE
 FILE: ..\out\B13_3ph_Peigan_Vulcan_V82.out

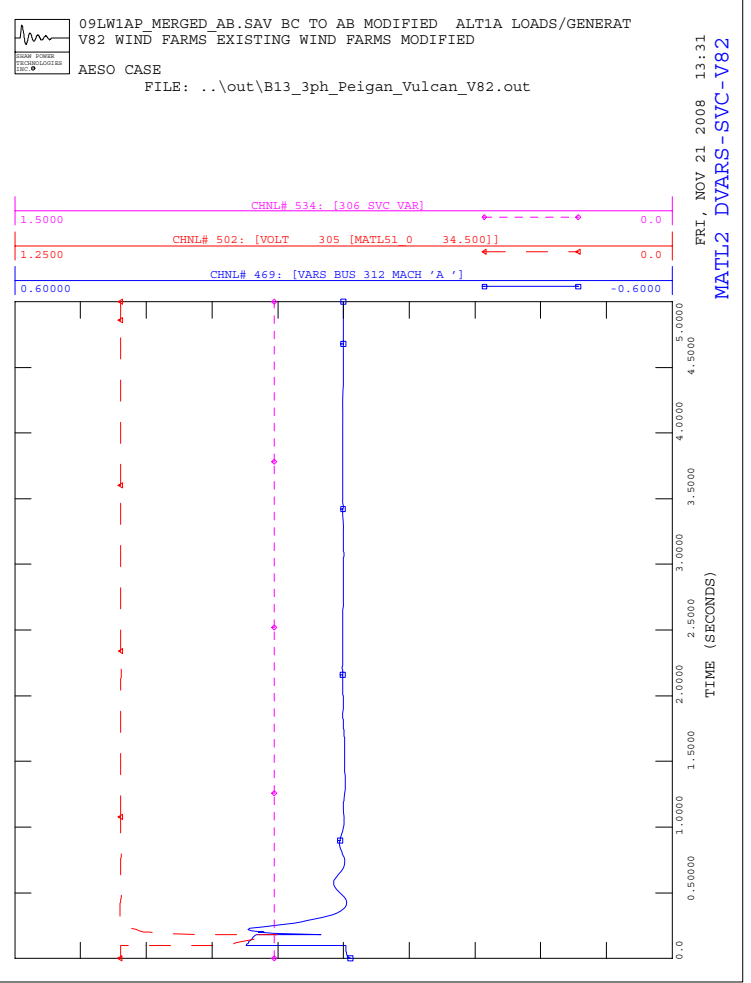
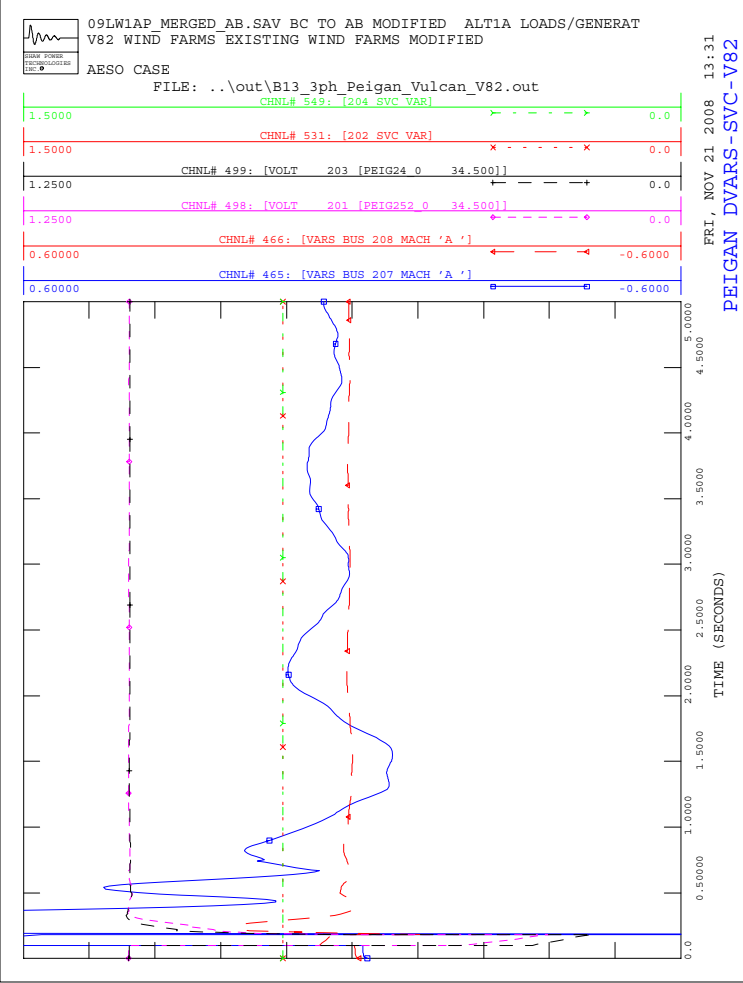
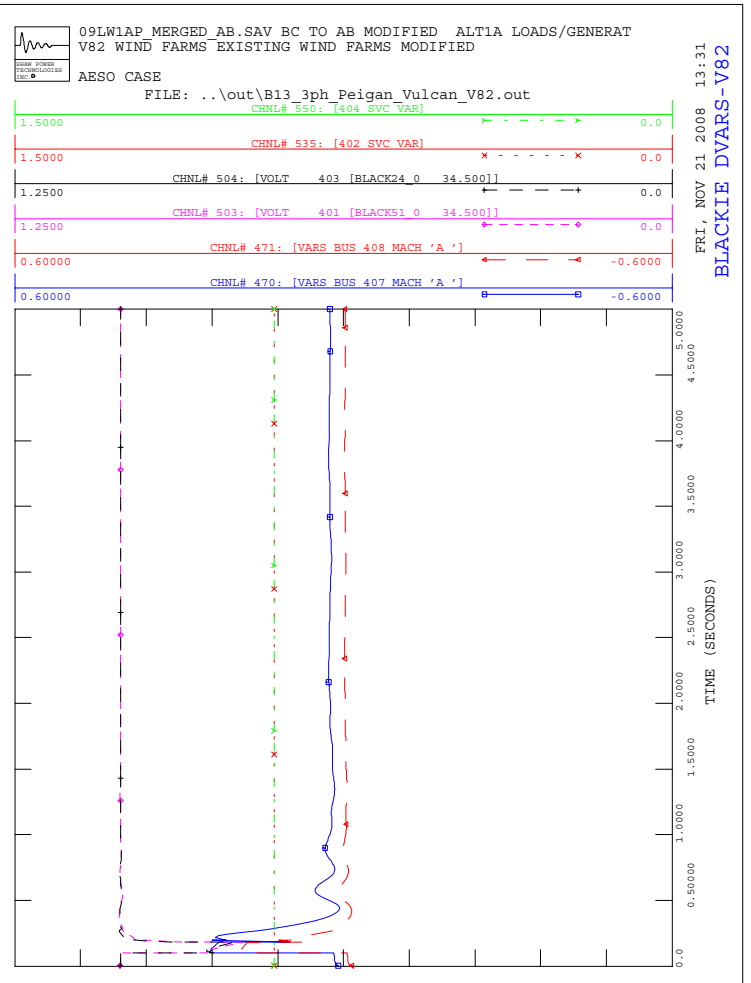
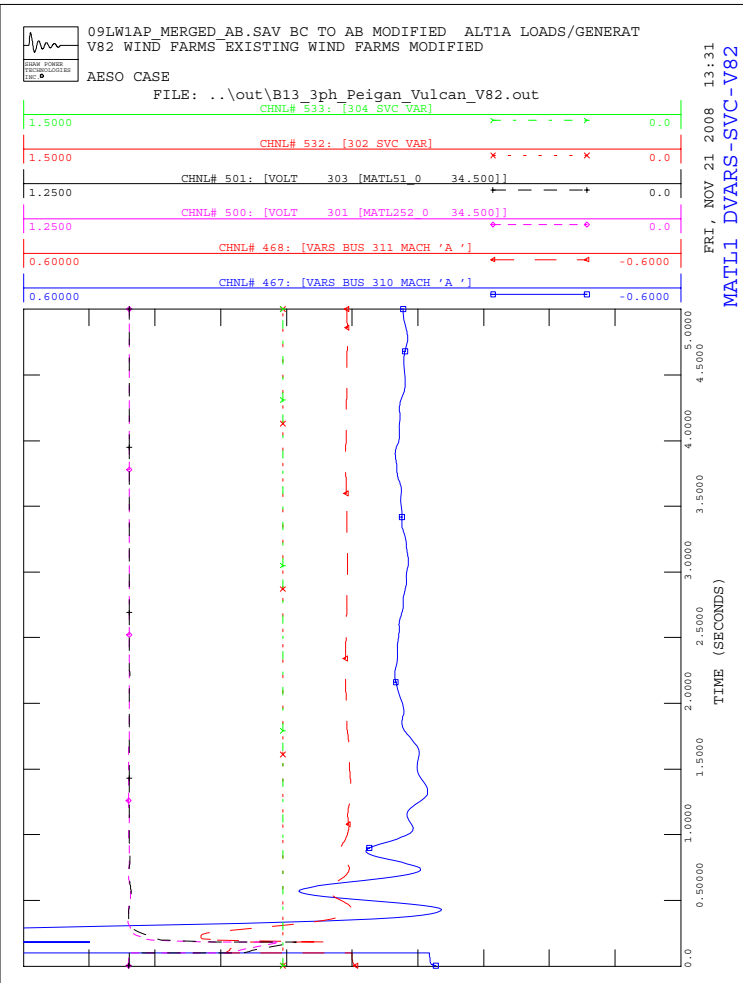


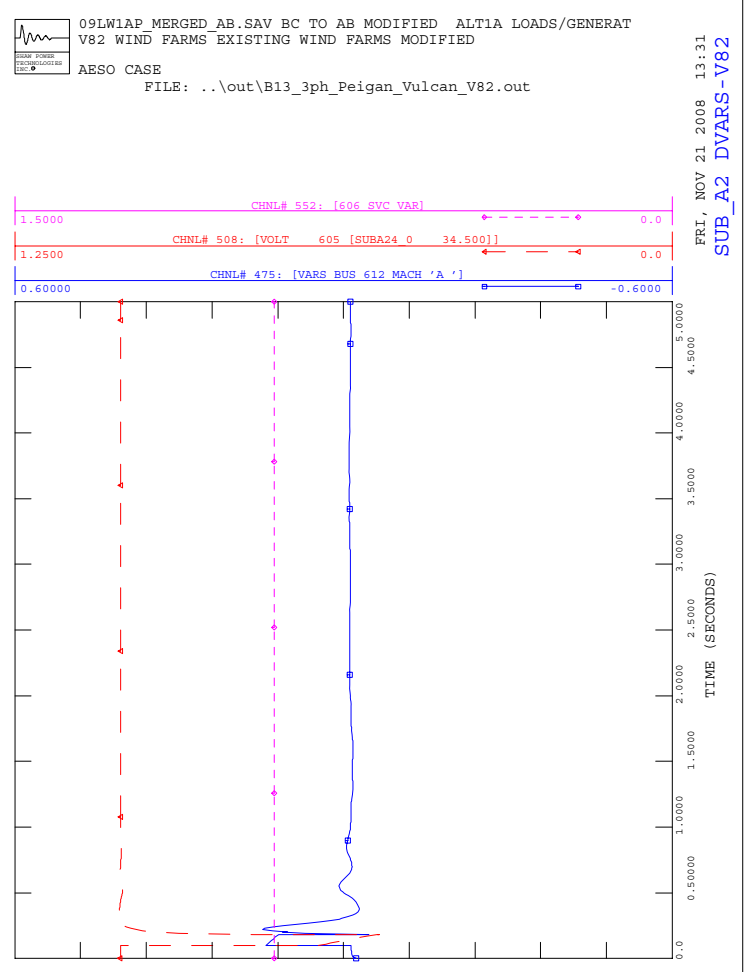
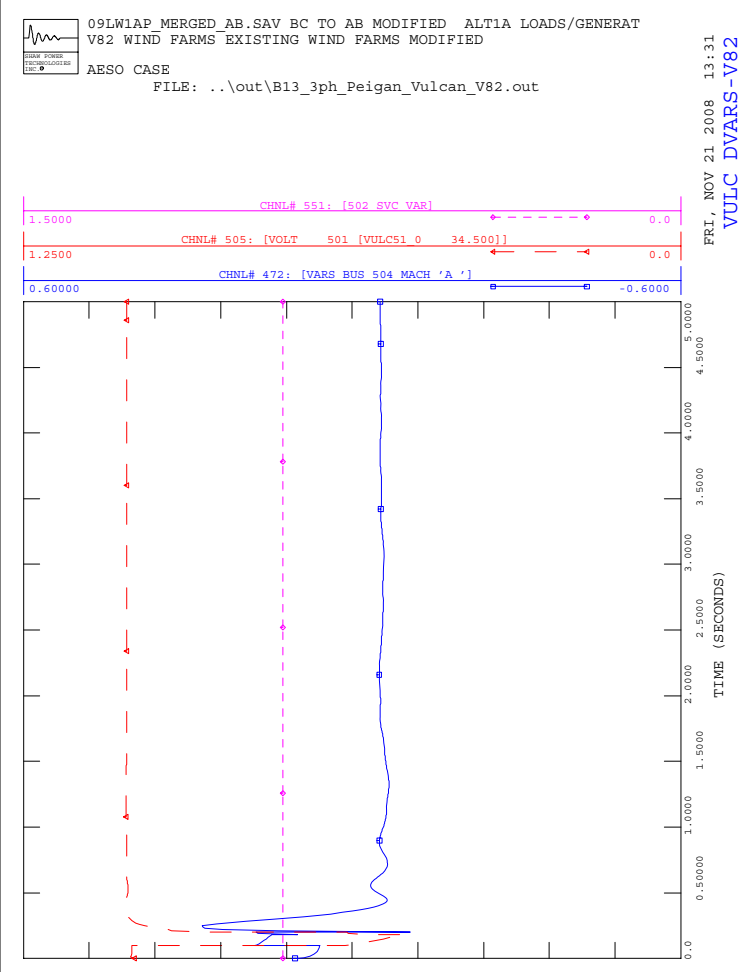
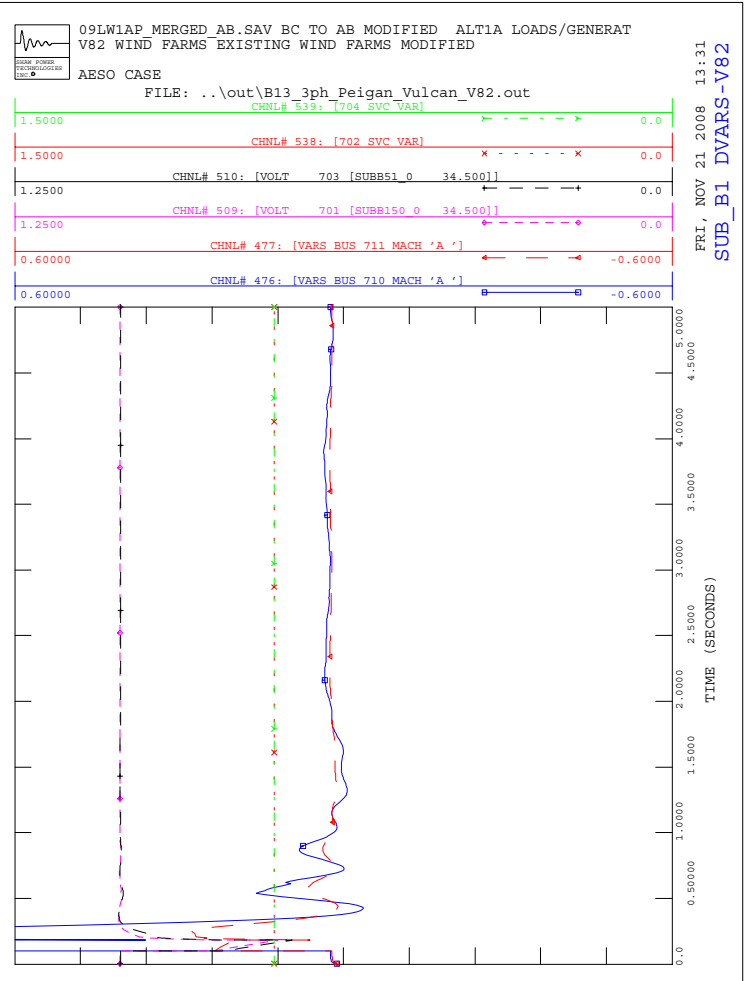
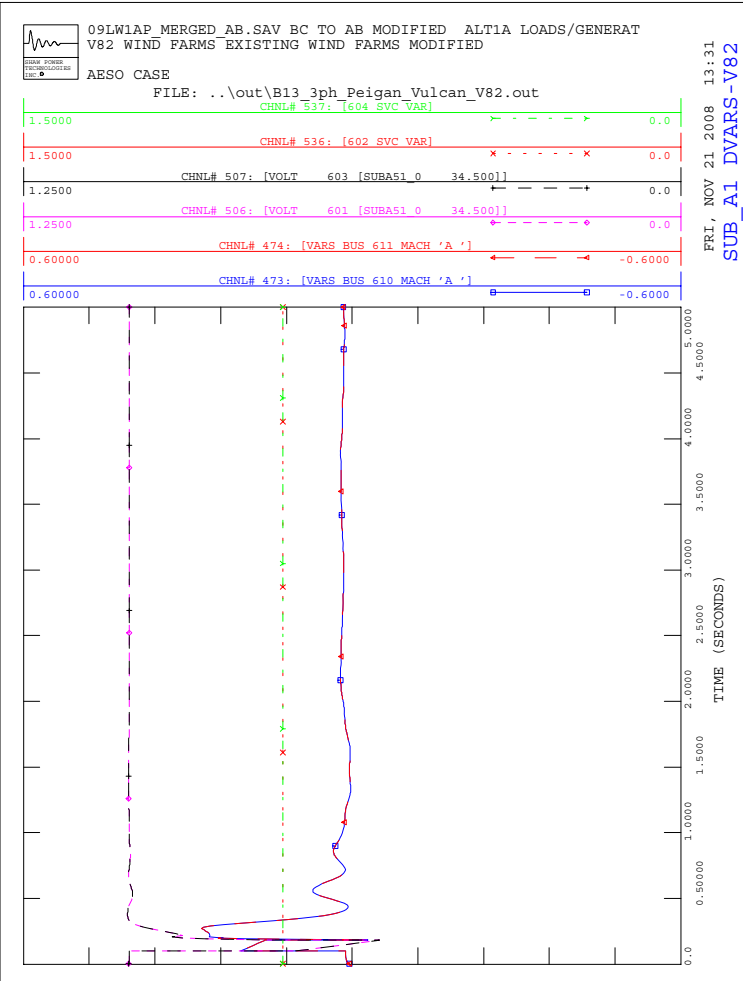
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 GOOSELK-PEIGAN_SPEED-V82

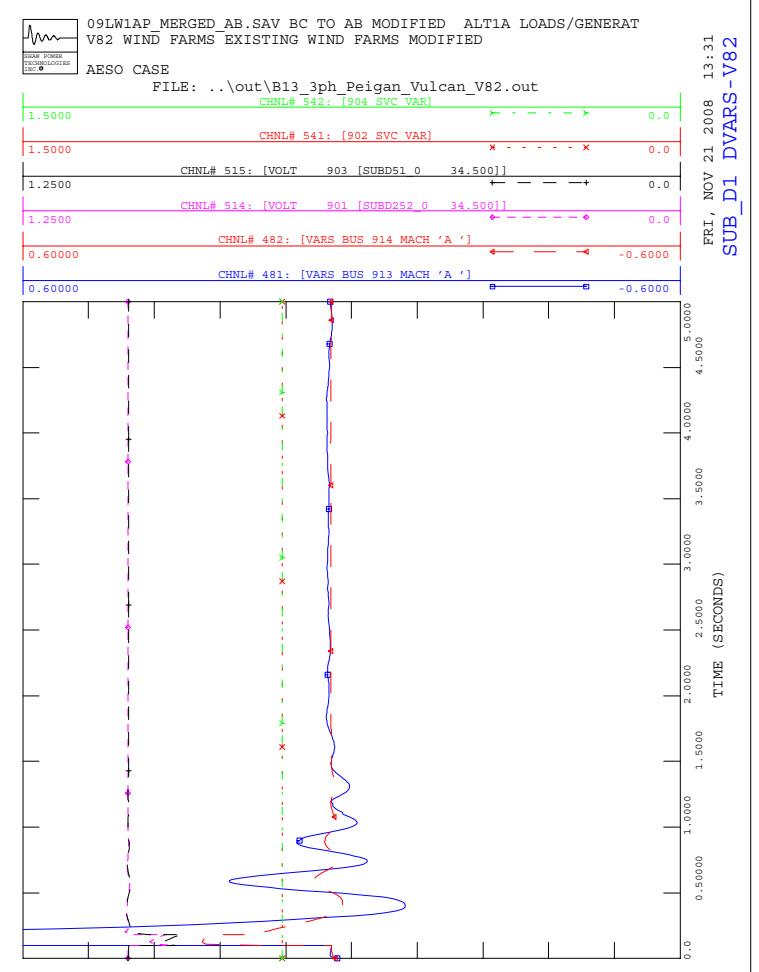
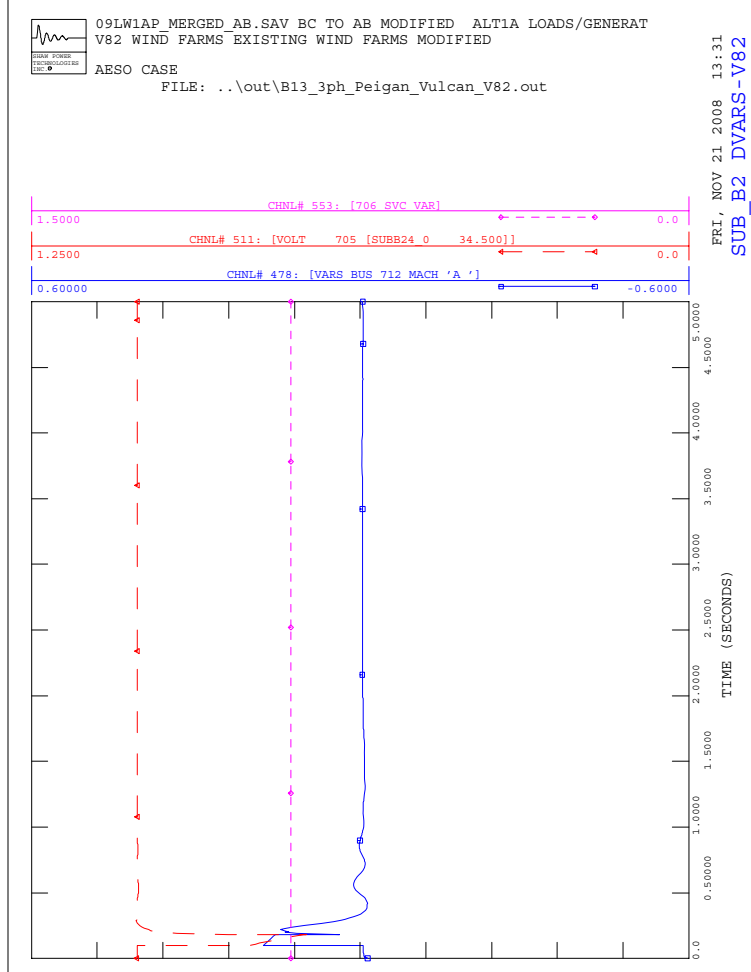
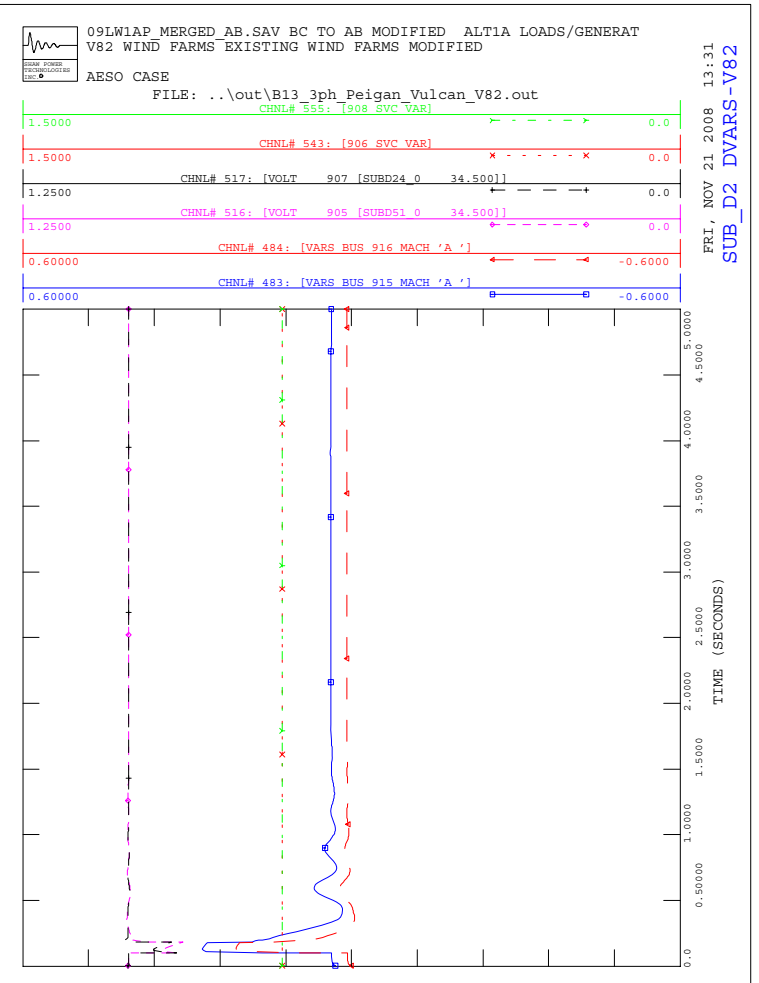
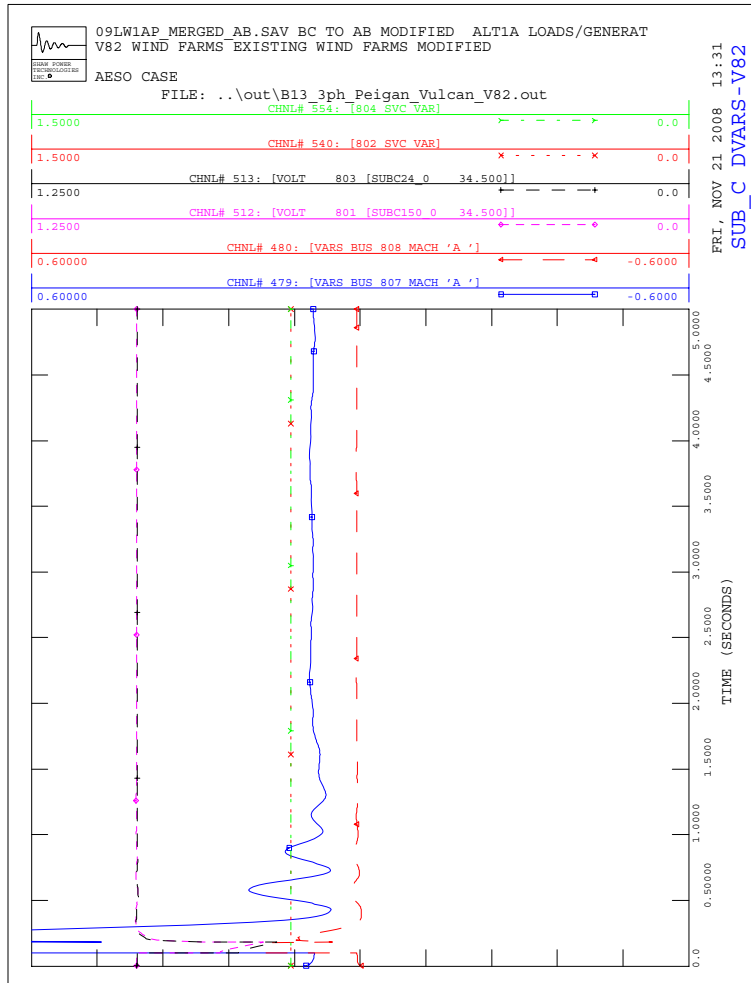


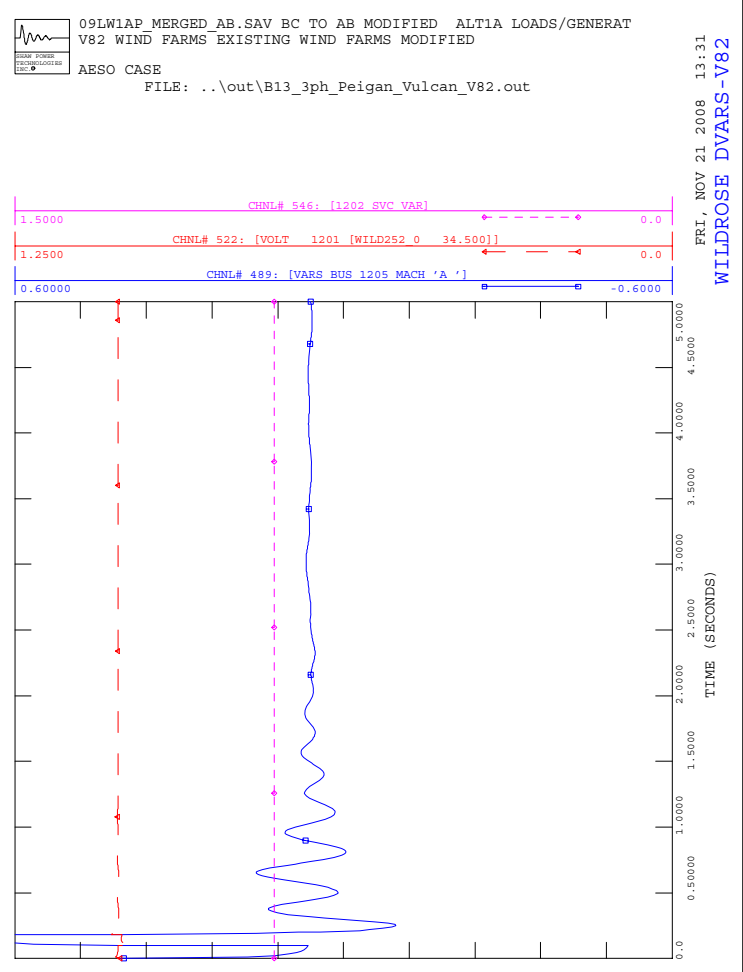
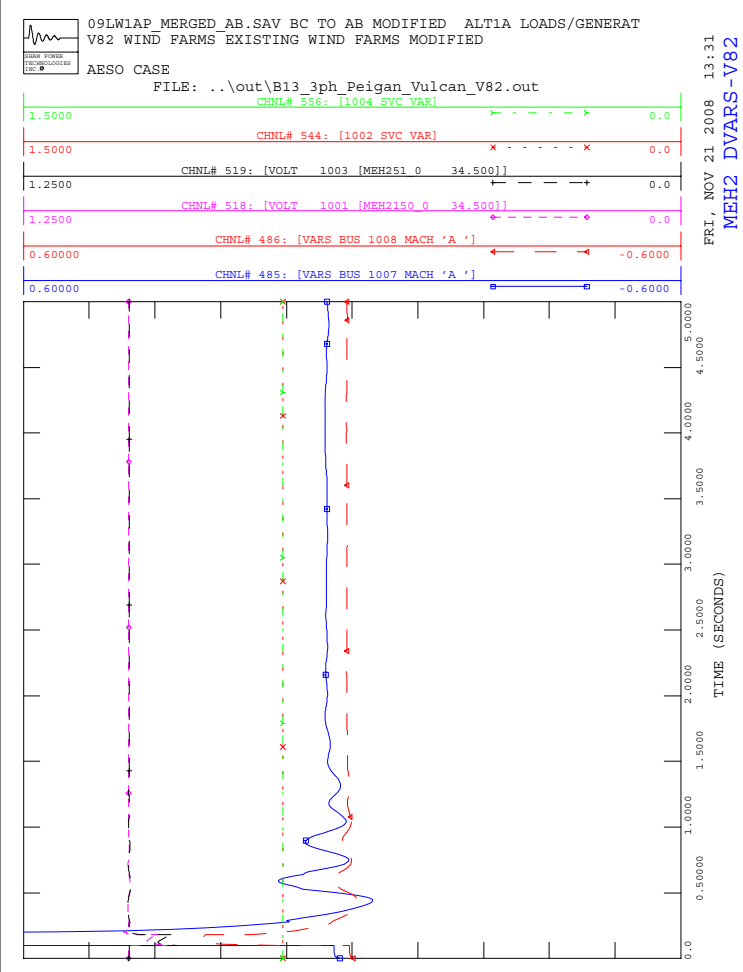
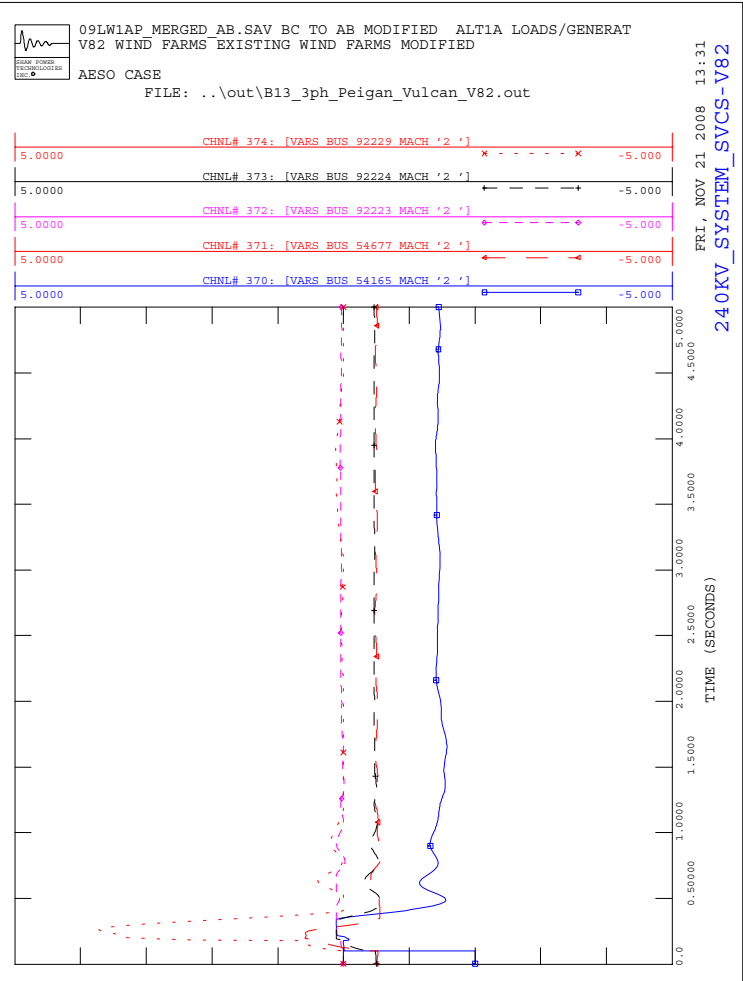
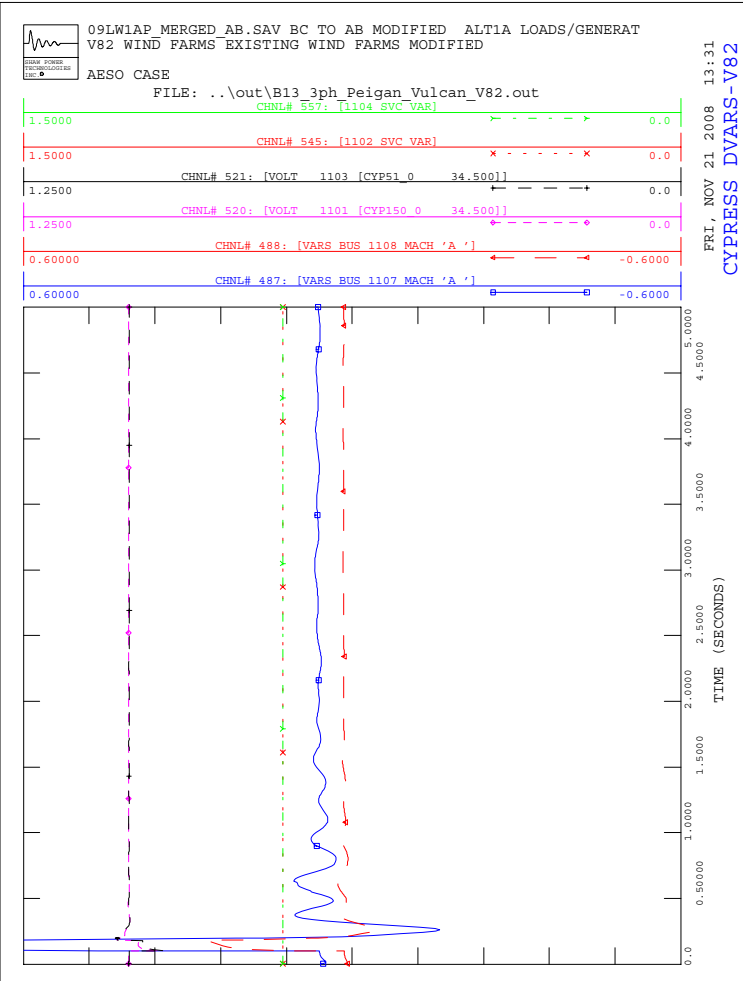








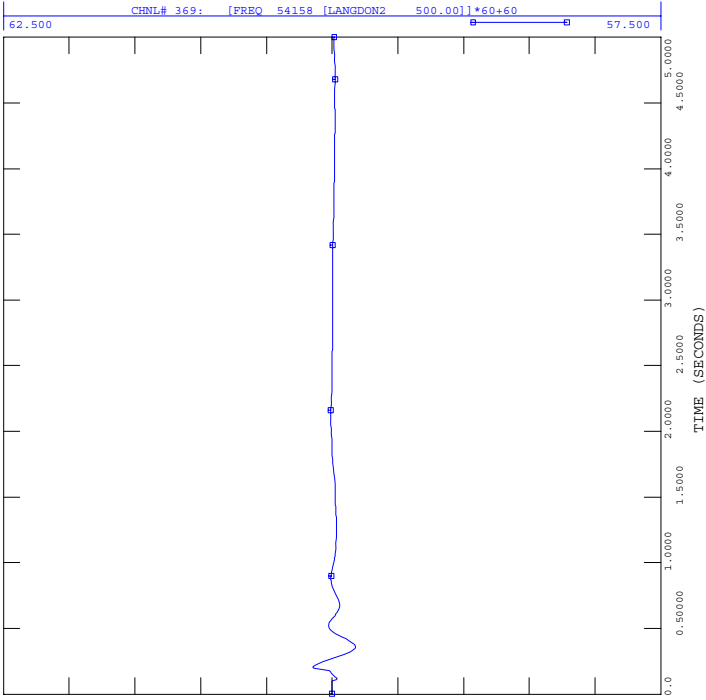






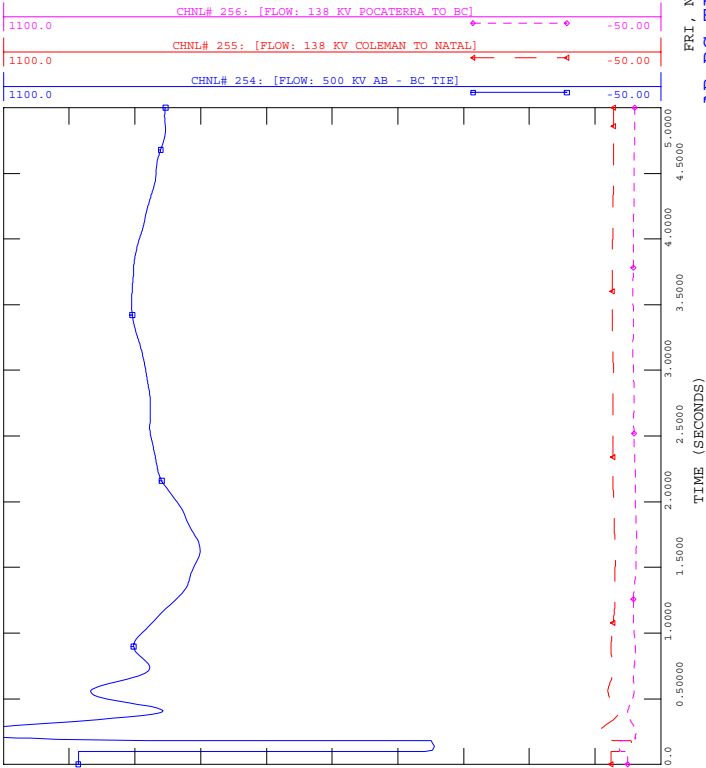
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B13_3ph_Peigan_Vulcan_V82.out

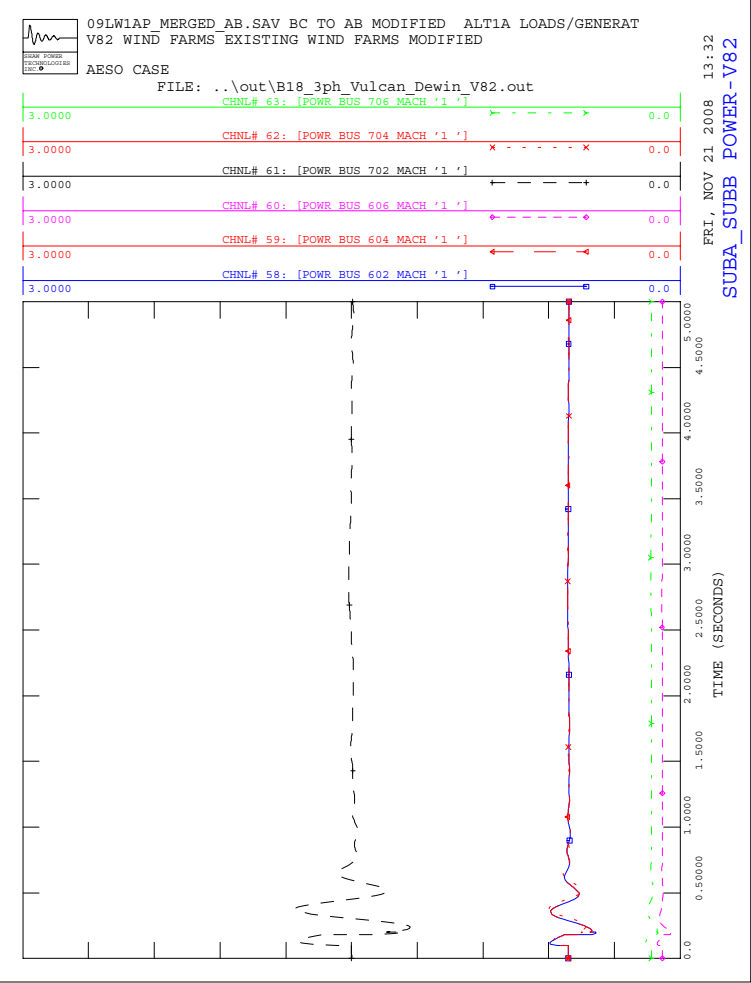
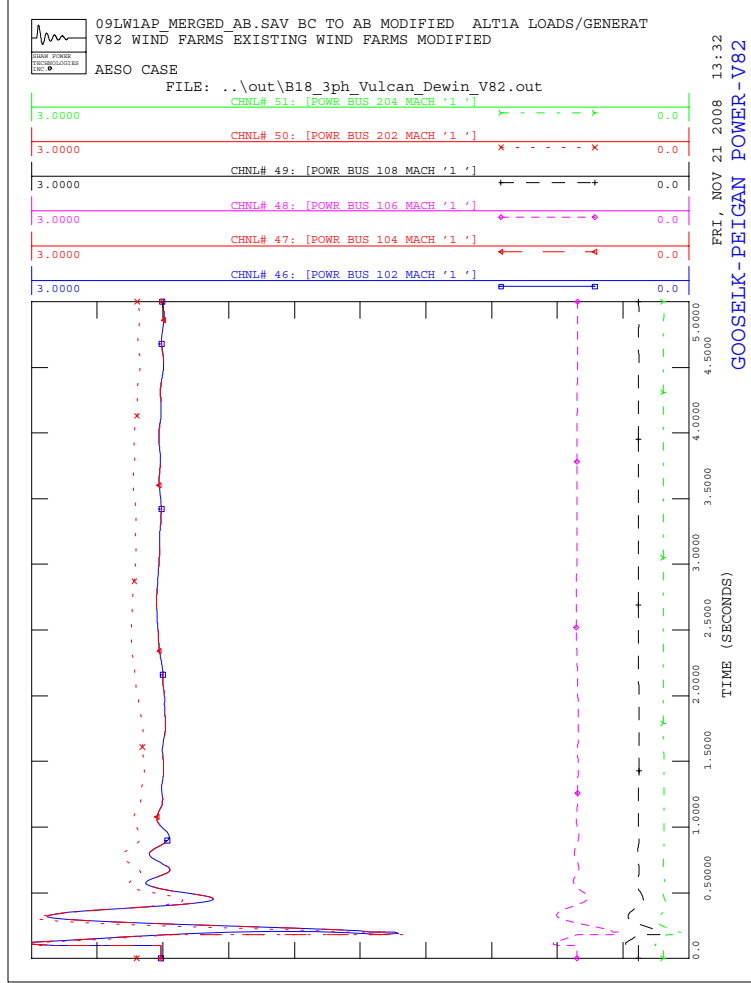
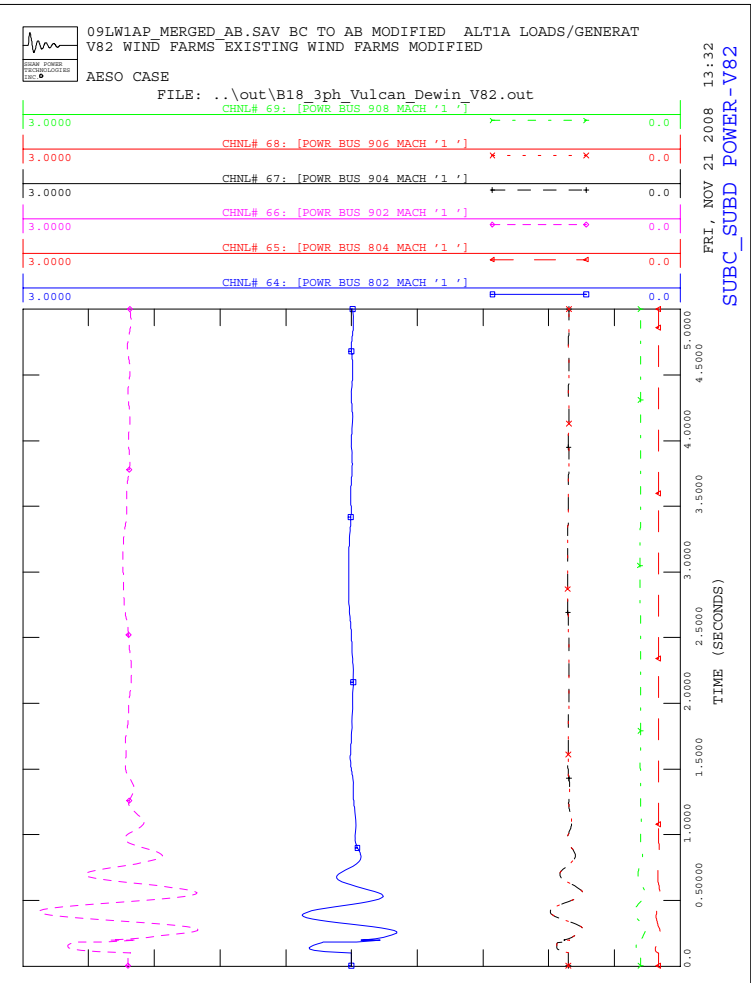
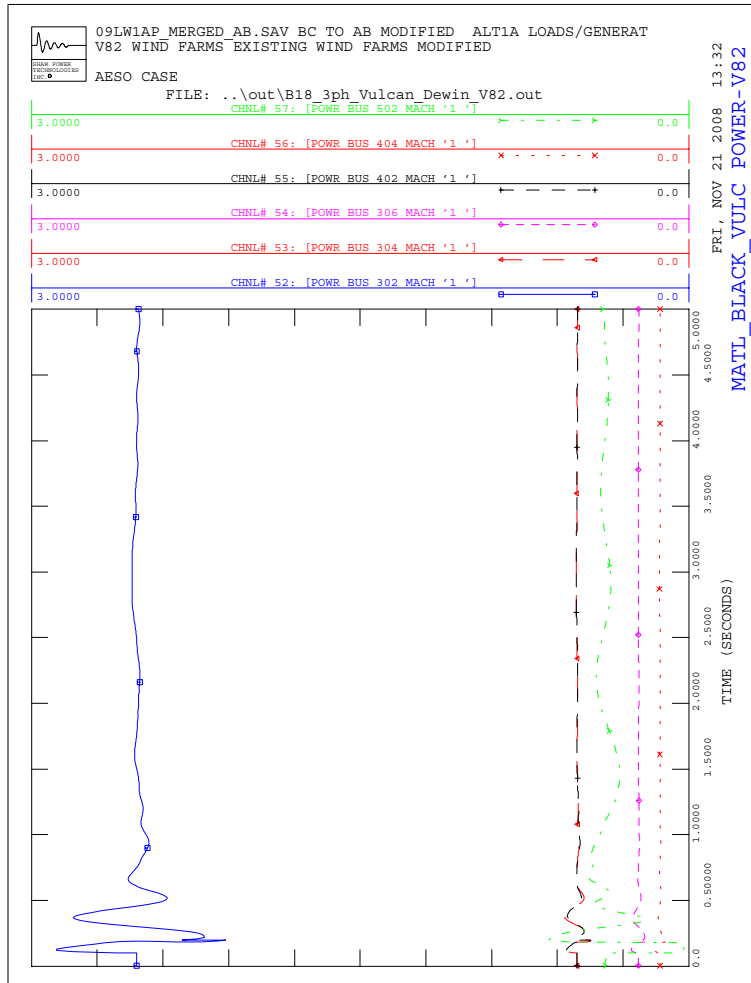
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LANGDON_FRQ-V82

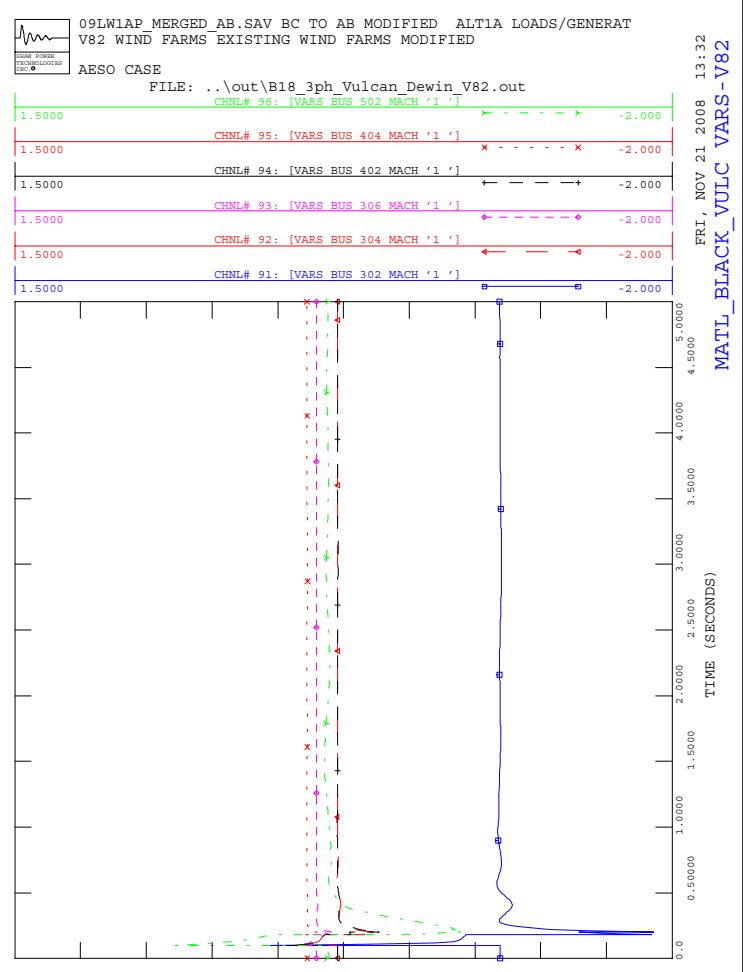
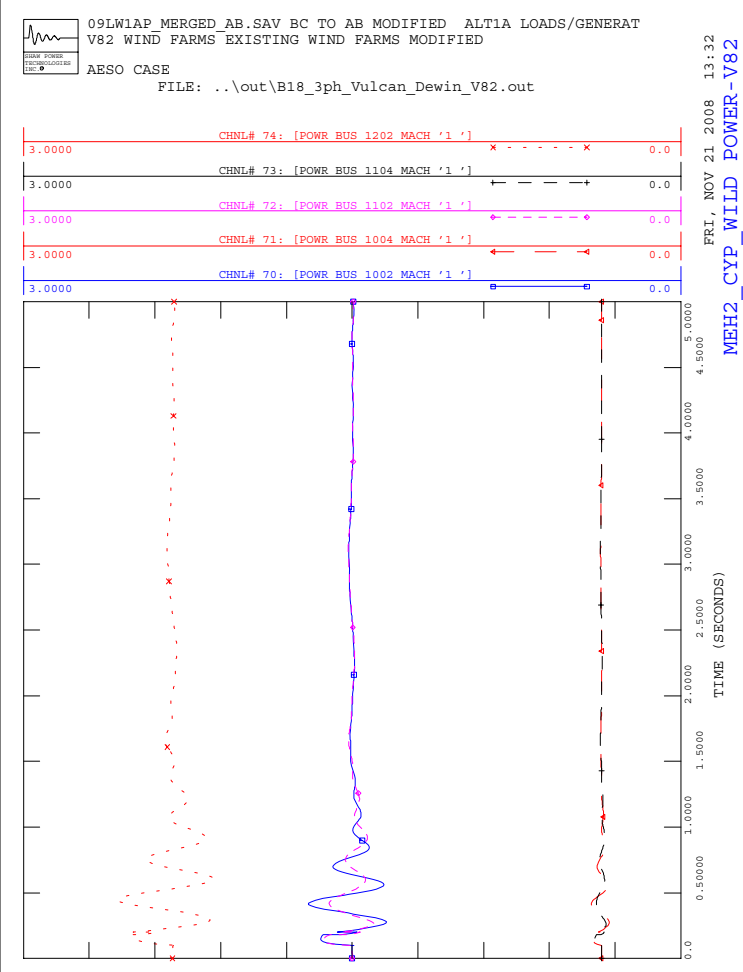
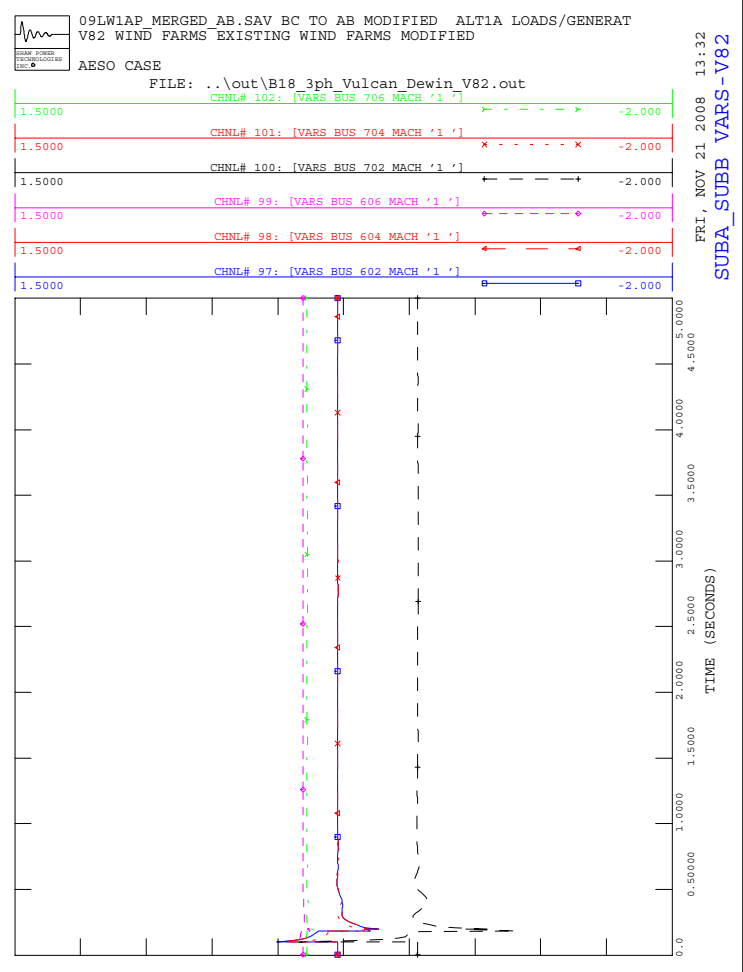
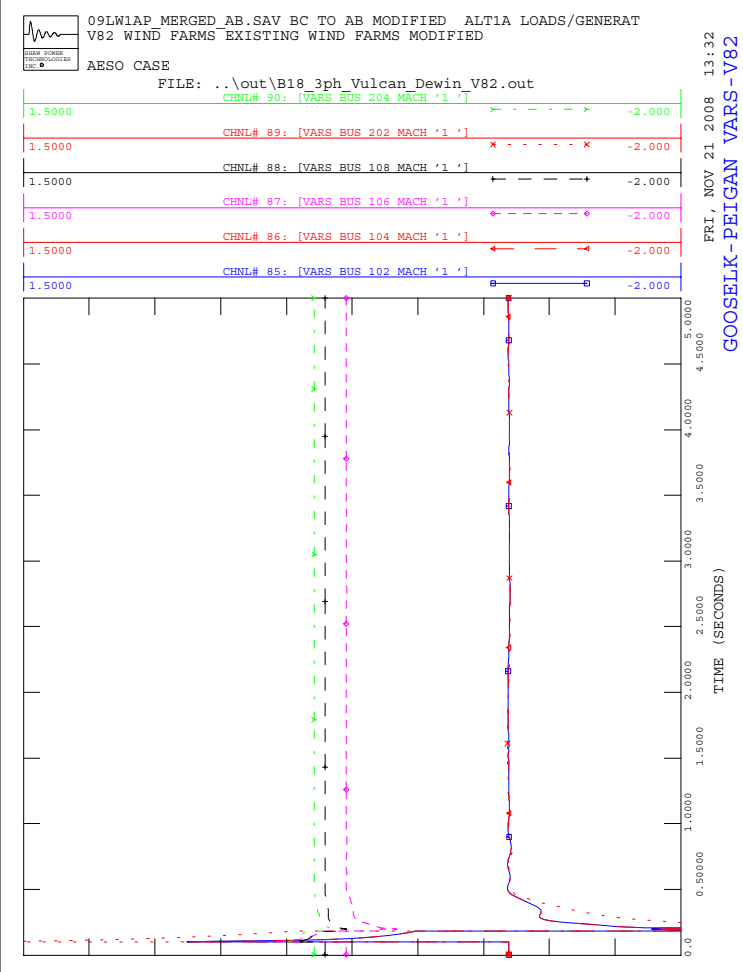


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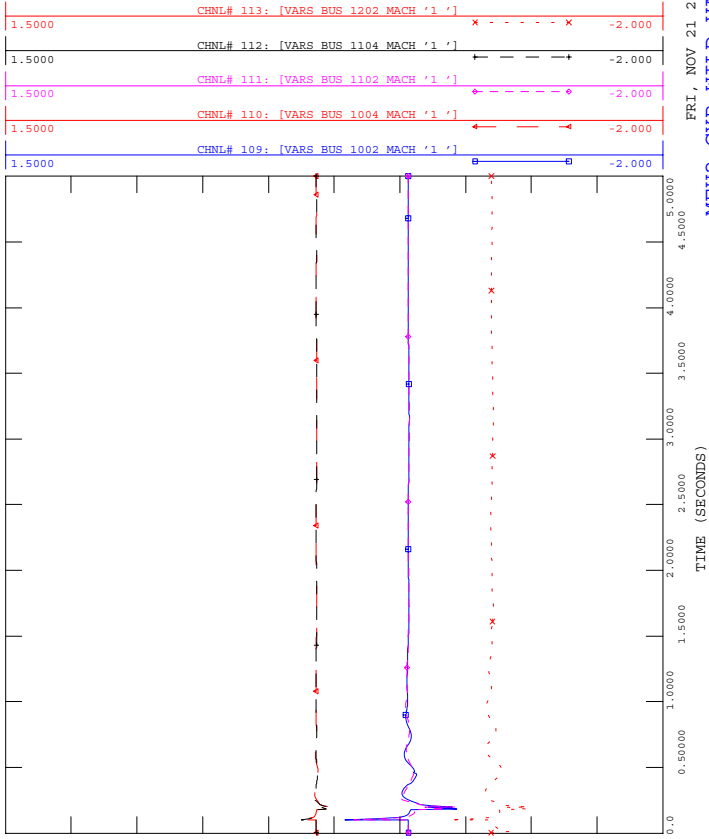
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AB_BC_TIE_FLOWS-V82





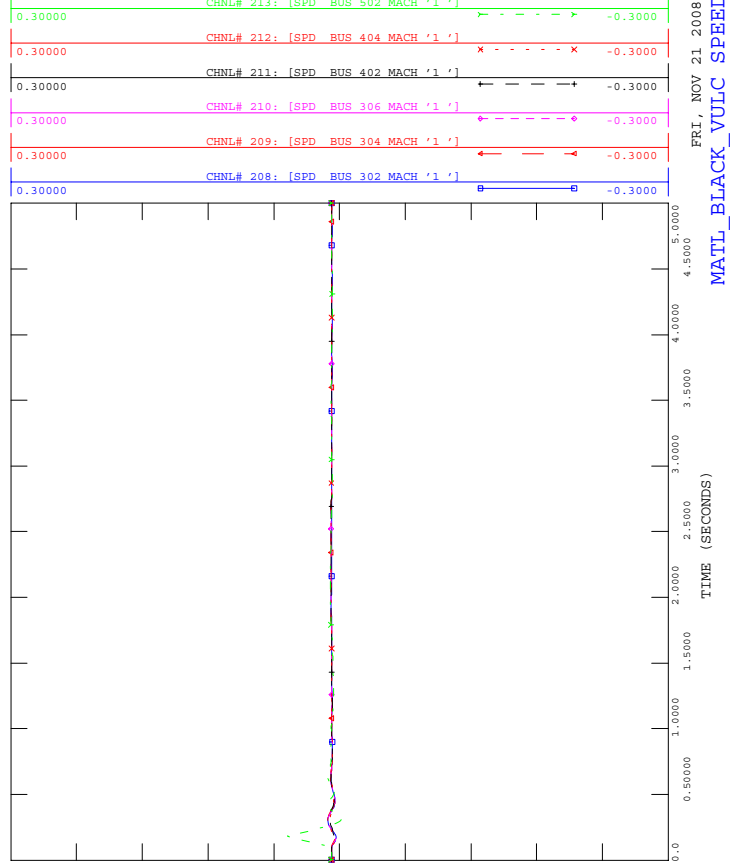


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 AESO CASE
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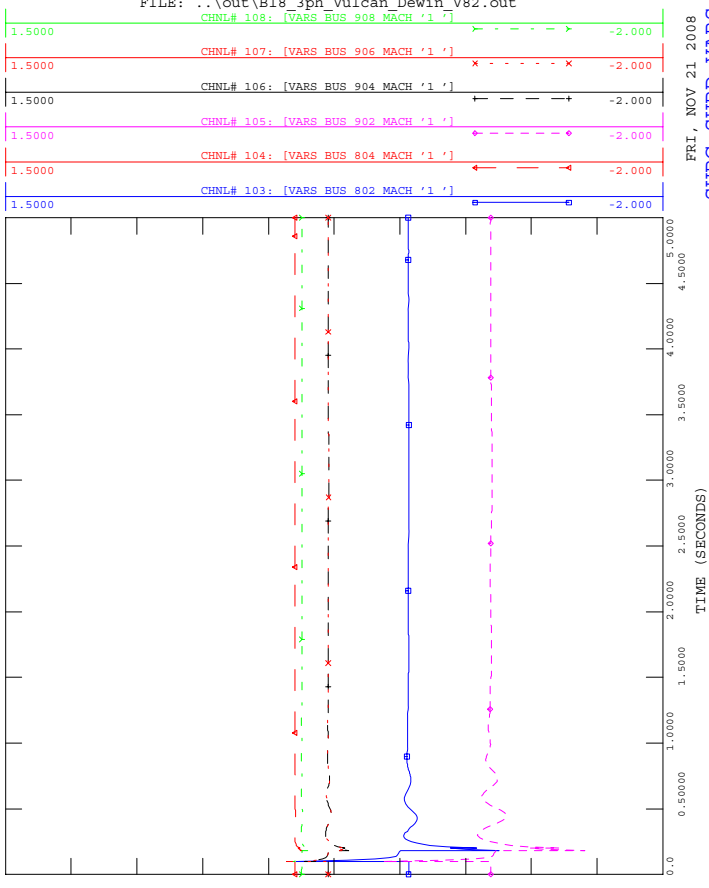
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 MEH2_CYP_WILD VARS-V82

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 AESO CASE
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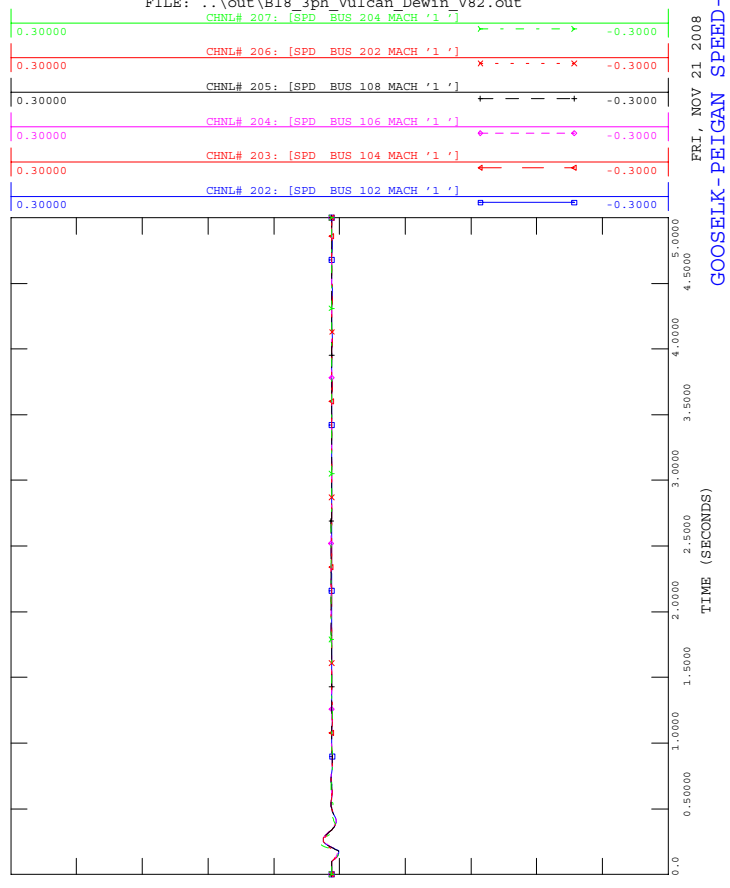
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 MAIL_BLACK_VULC SPEED-V82

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 AESO CASE
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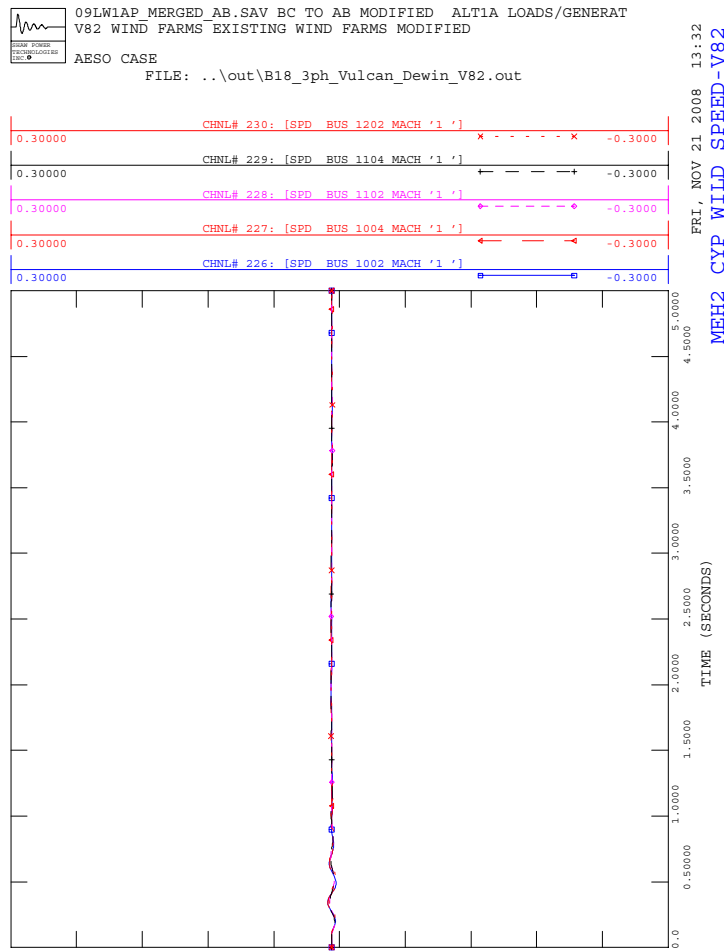
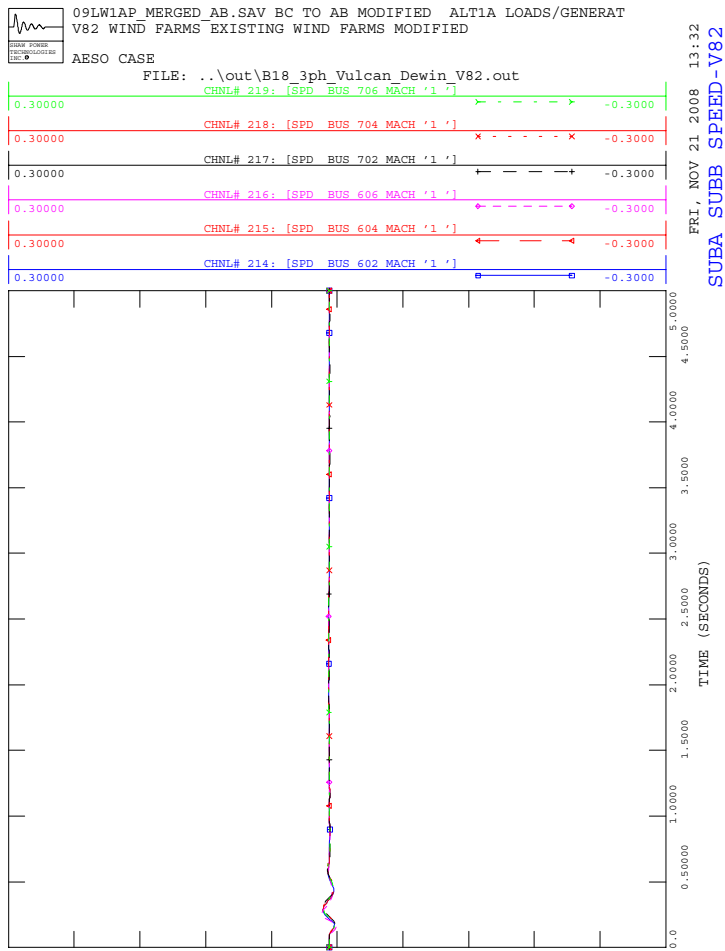
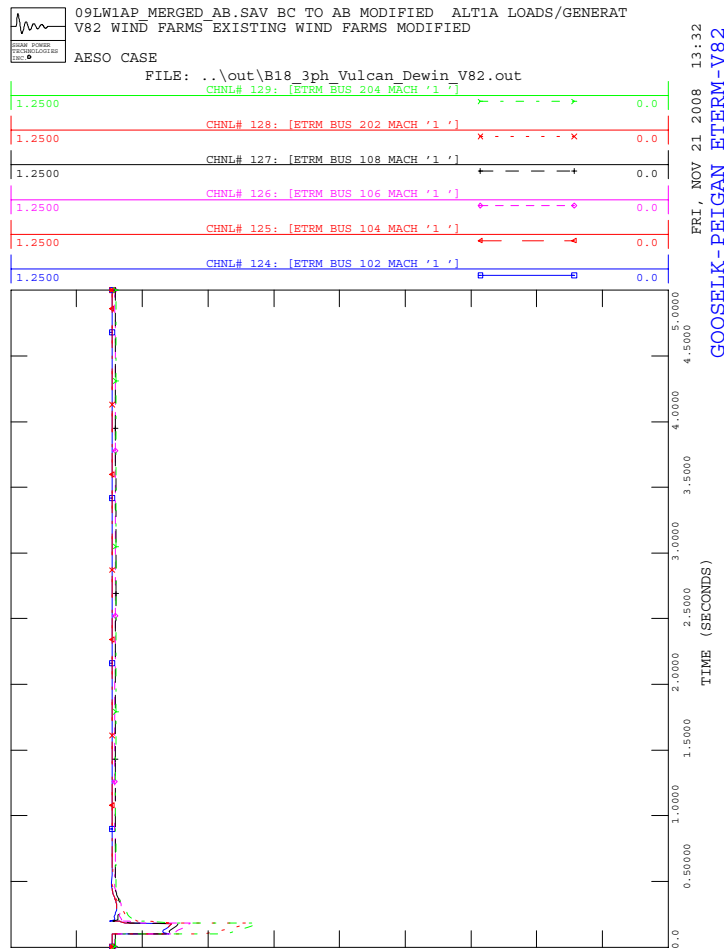
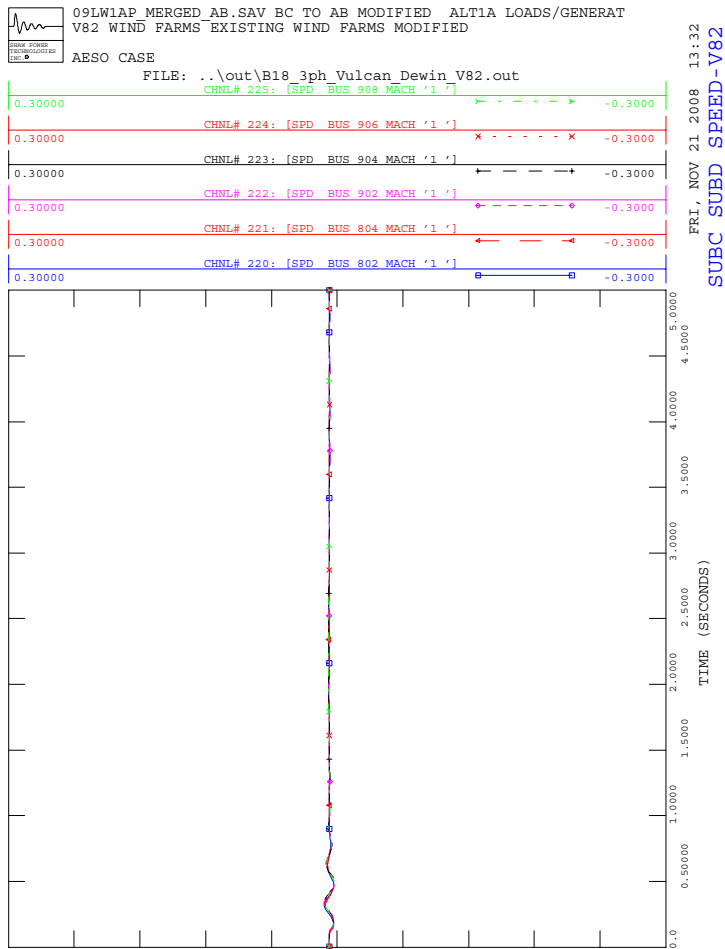


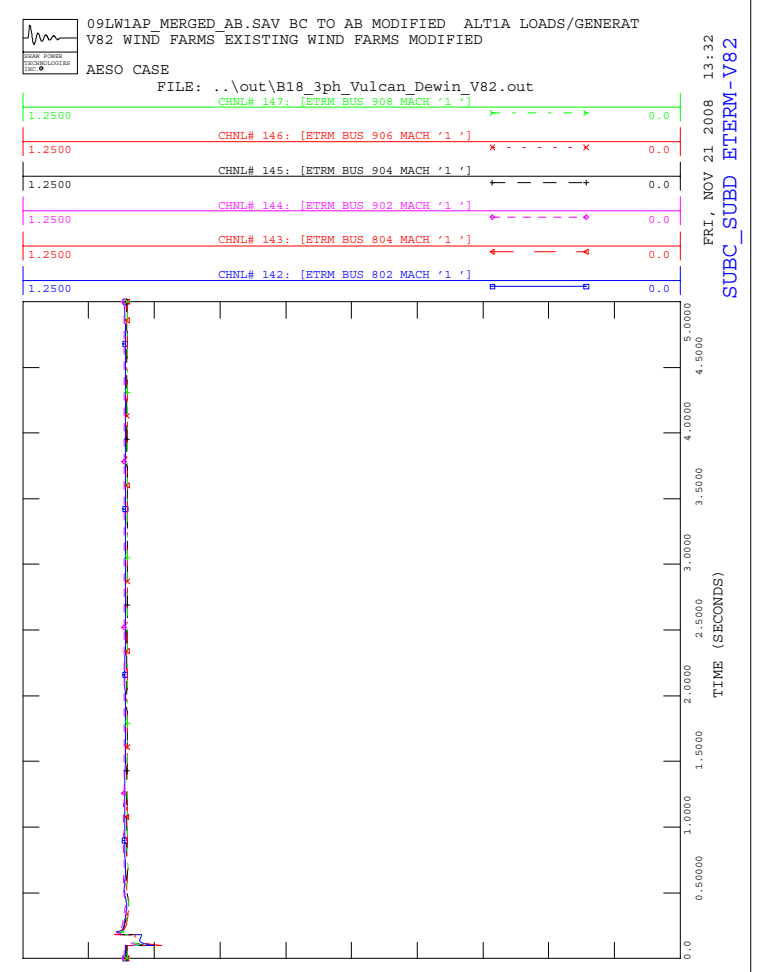
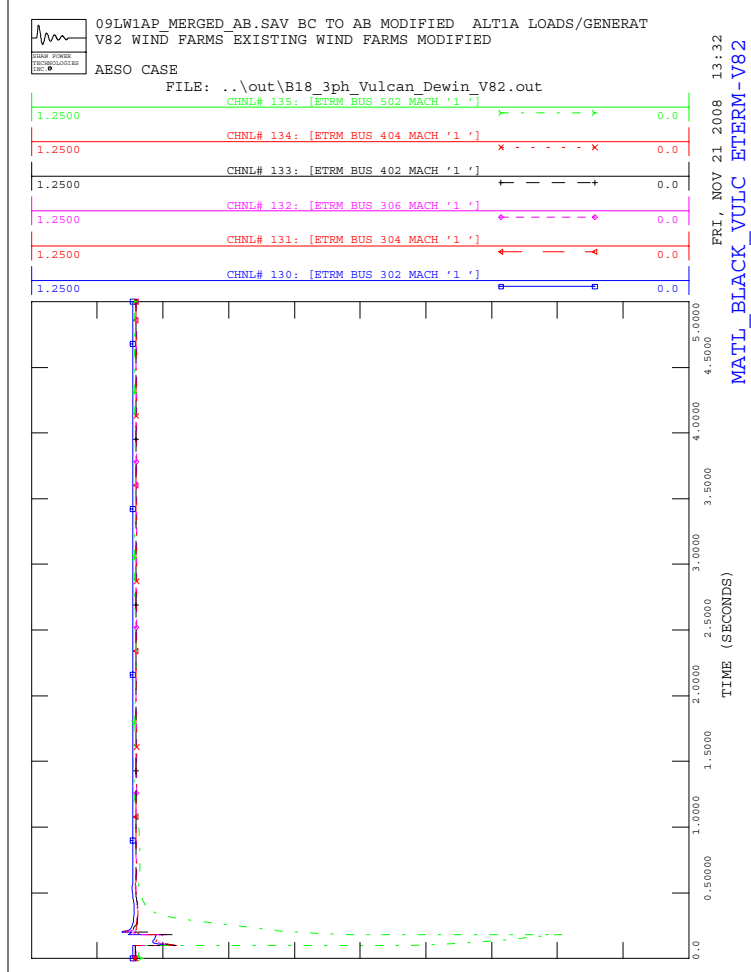
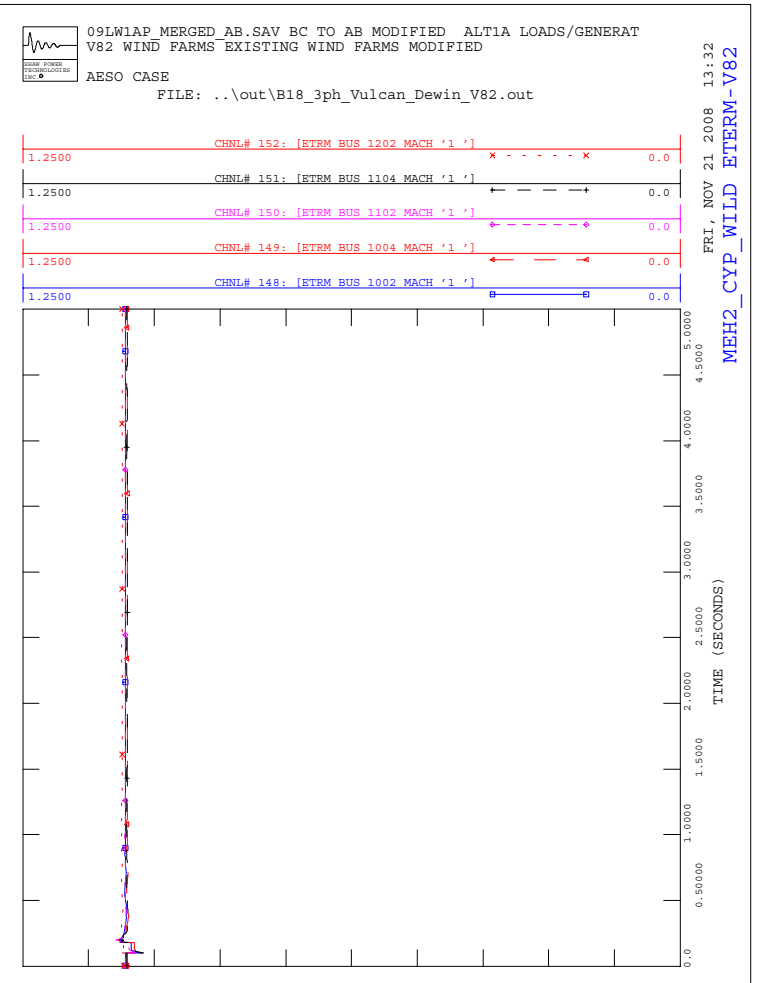
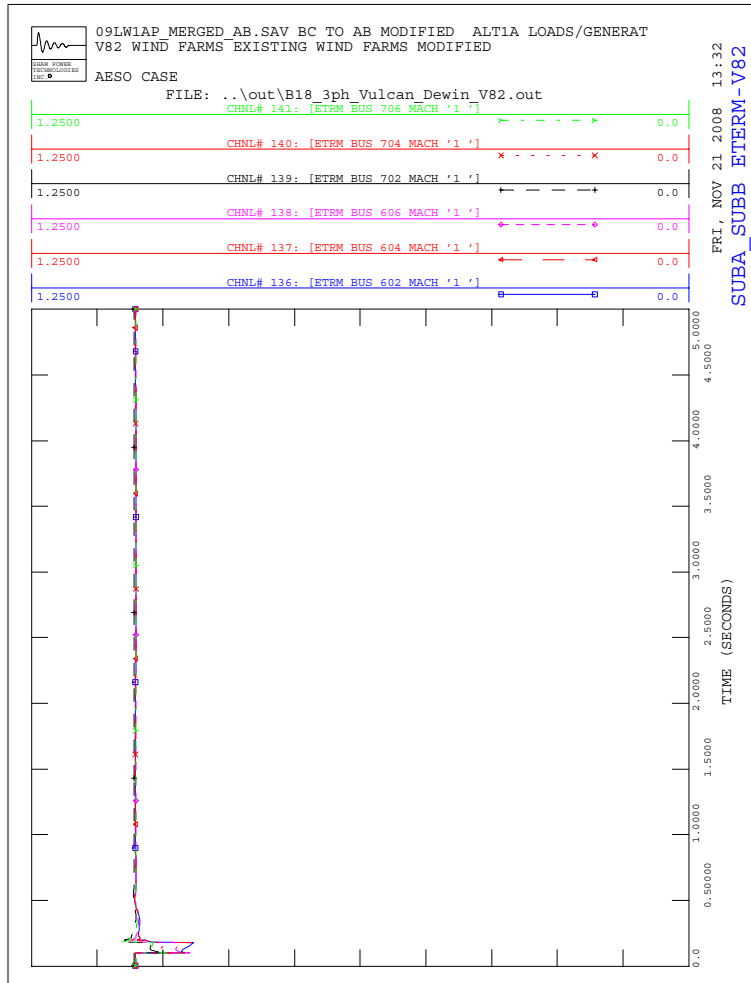
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 SUBC_SUBD VARS-V82

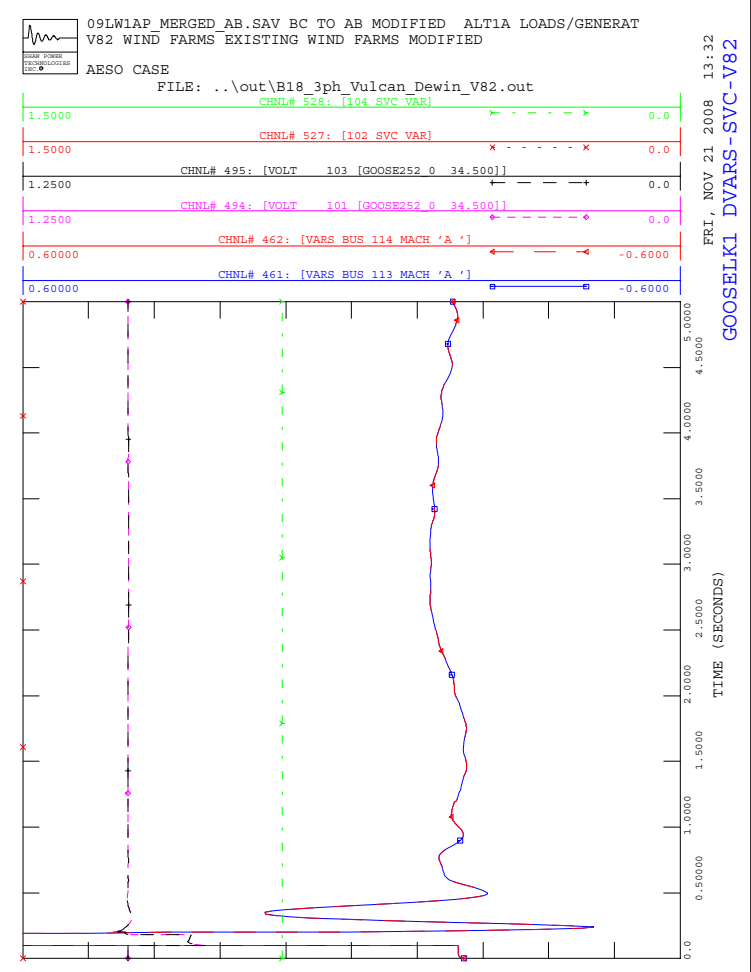
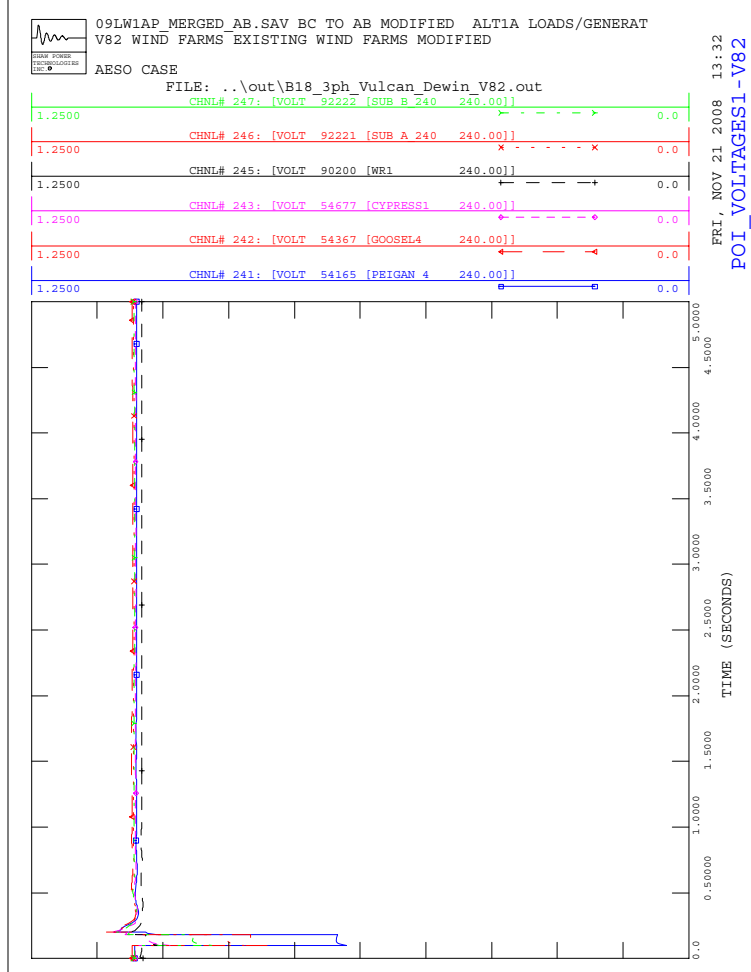
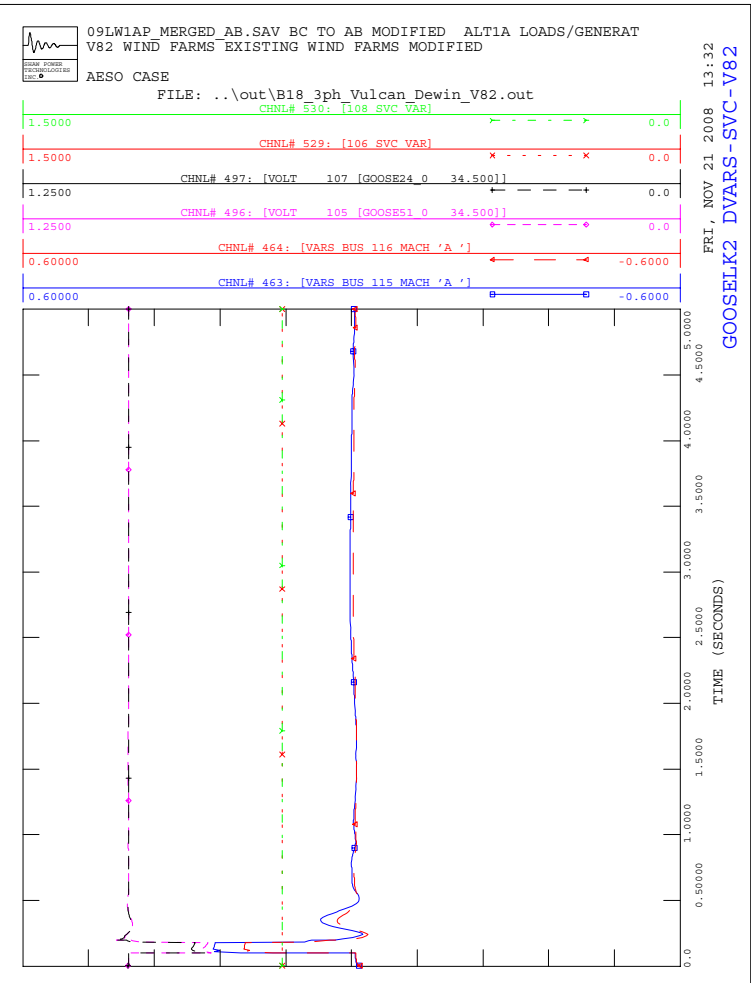
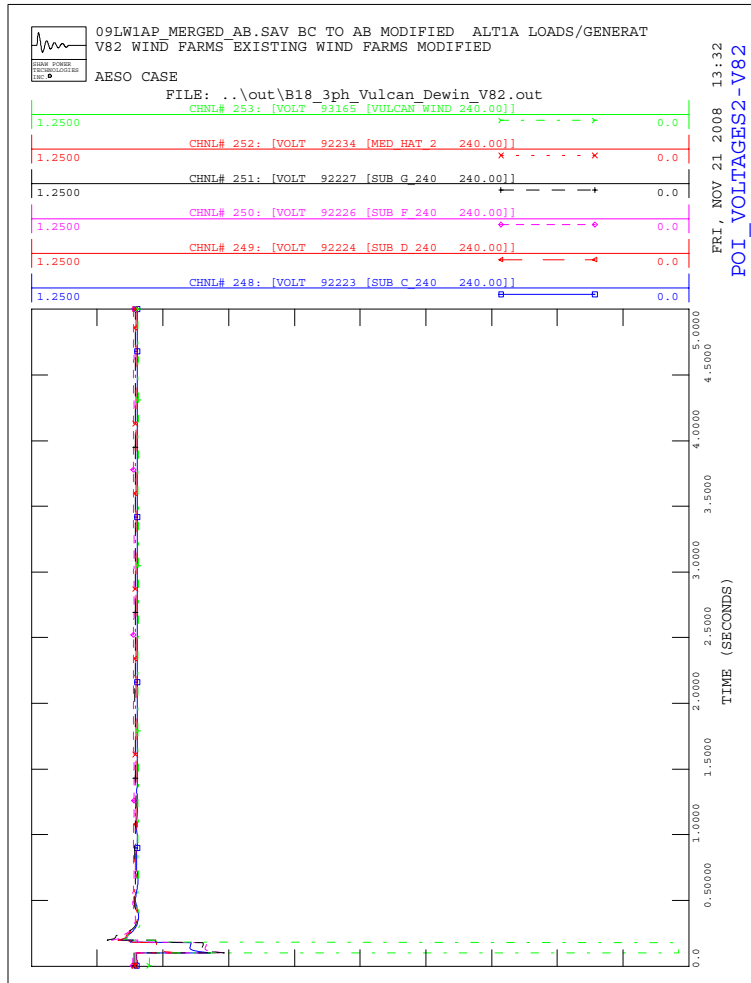
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 AESO CASE
 FILE: ..\out\B18_3ph_Vulcan_Dewin_V82.out

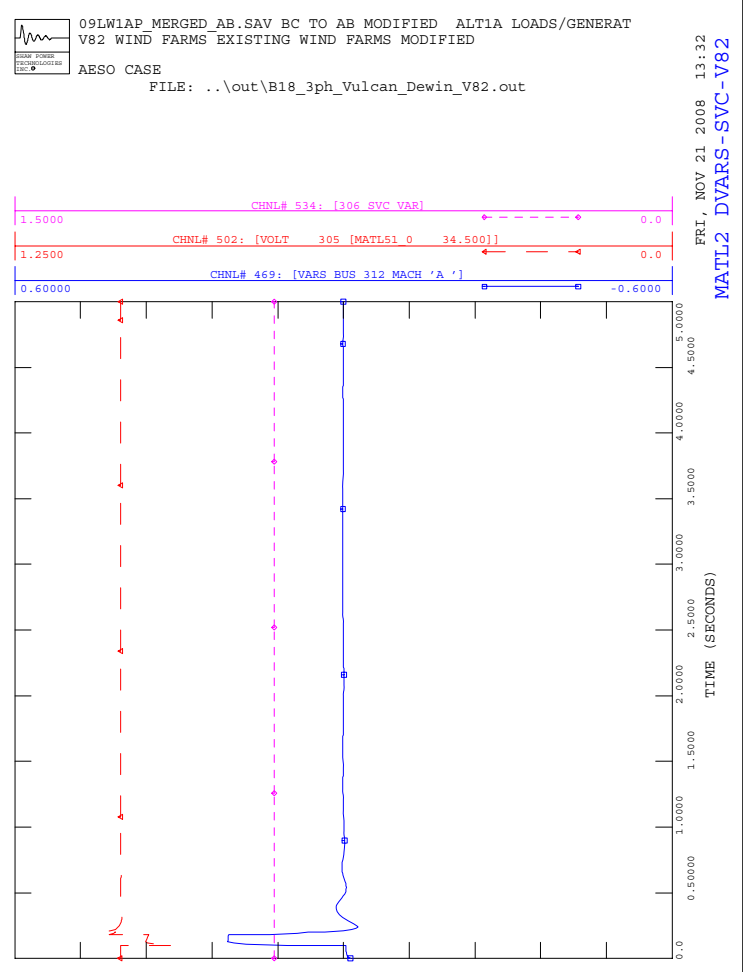
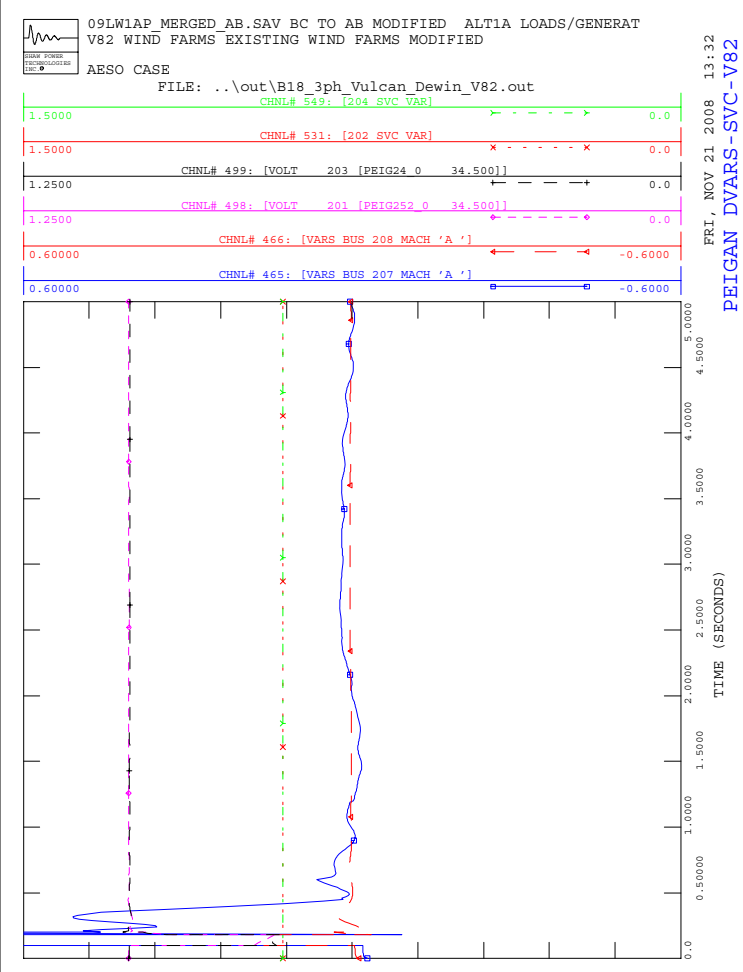
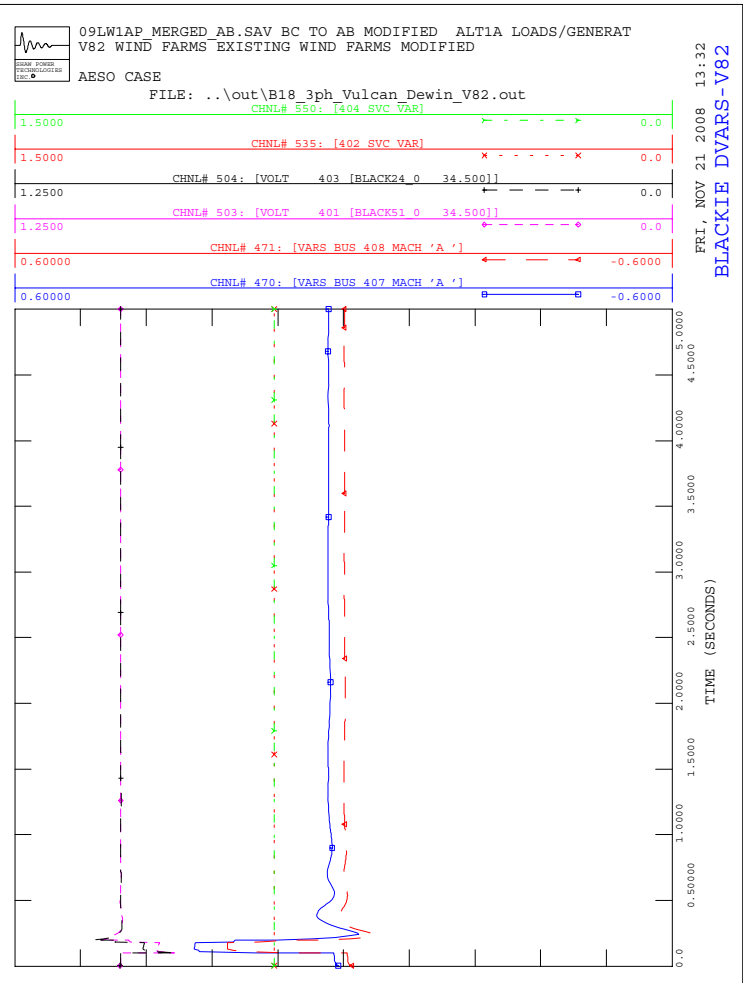
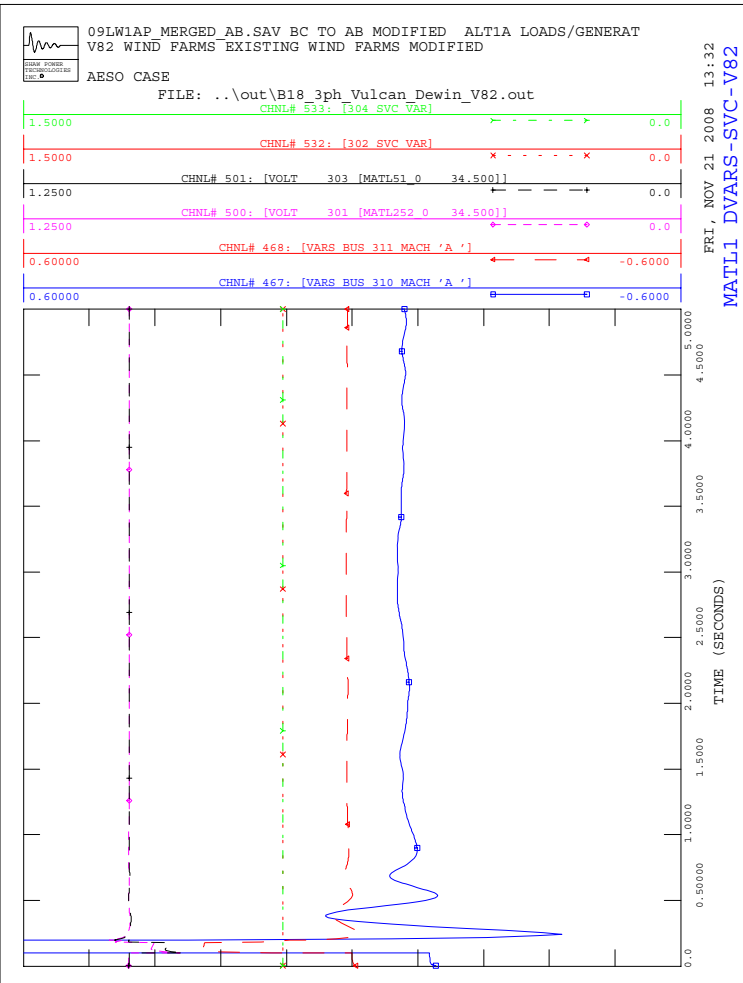


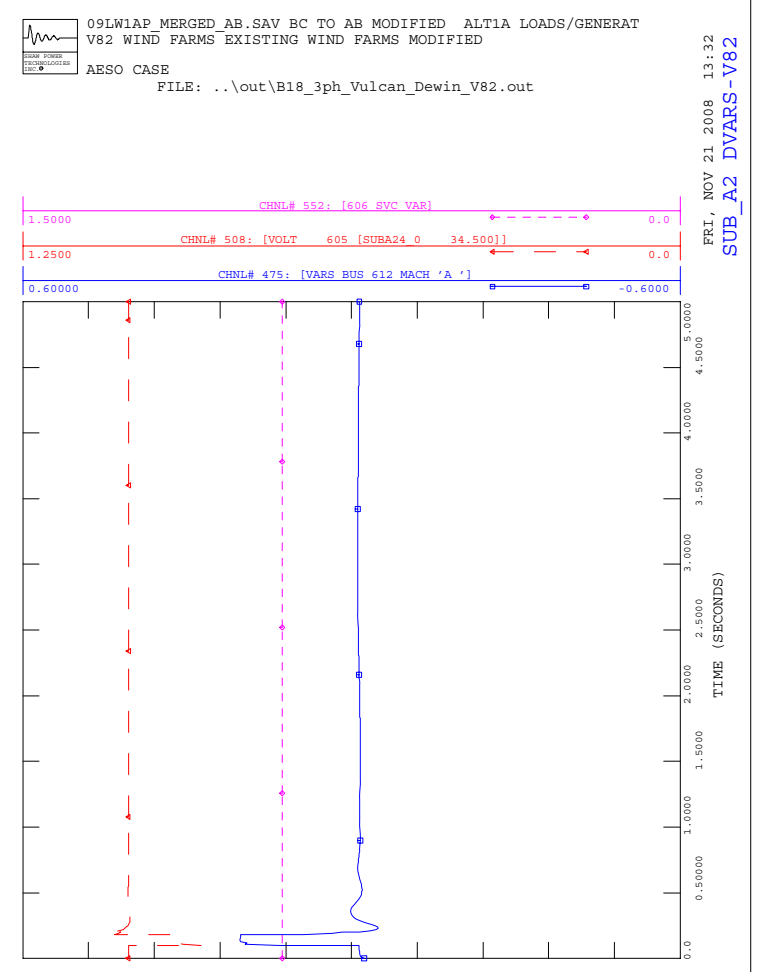
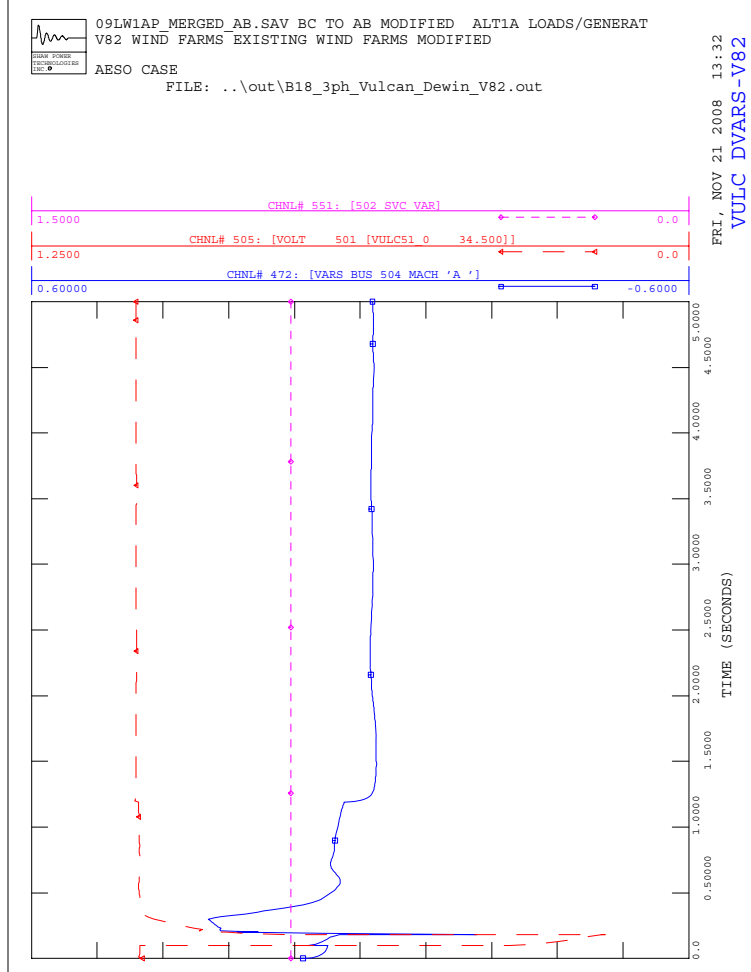
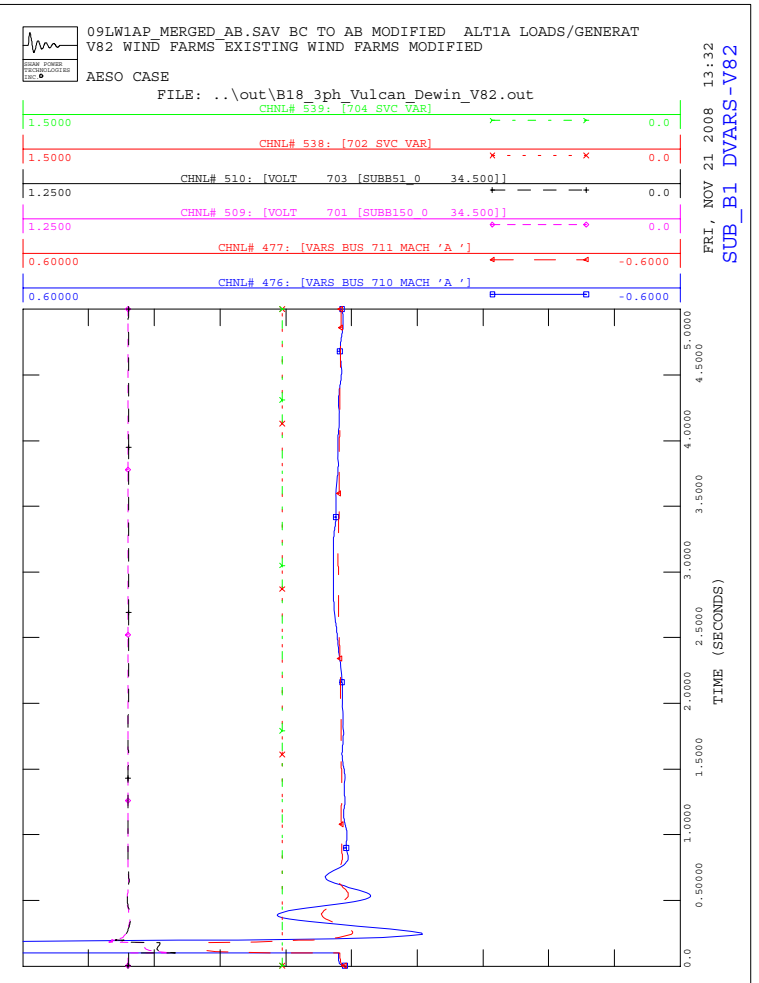
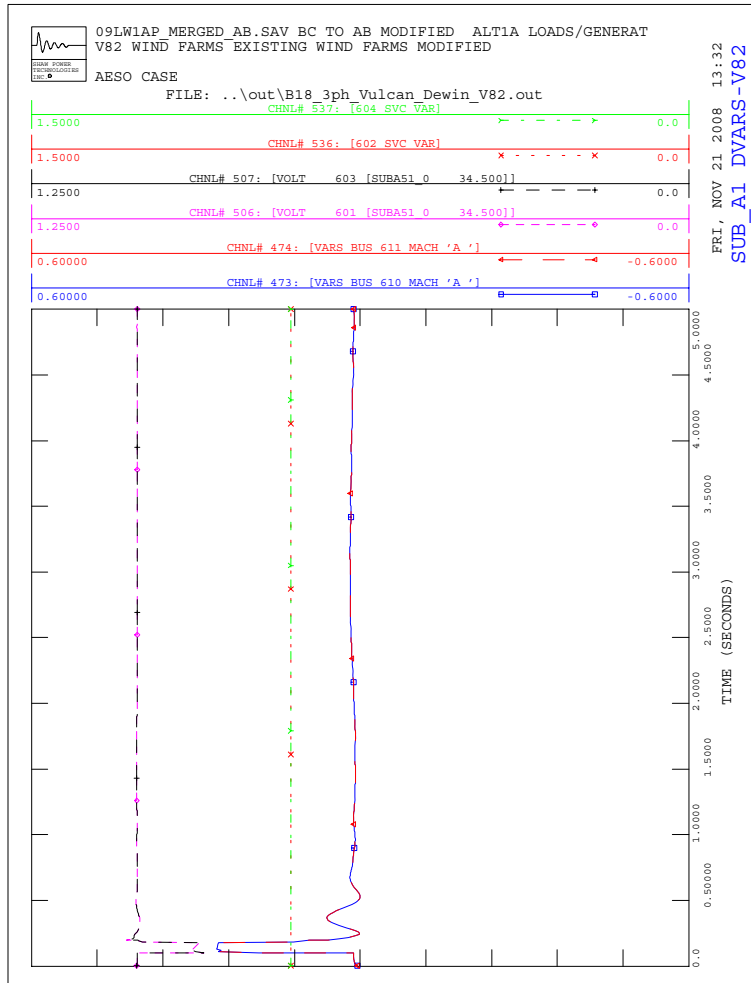
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 GOOSELK-PEIGAN SPEED-V82

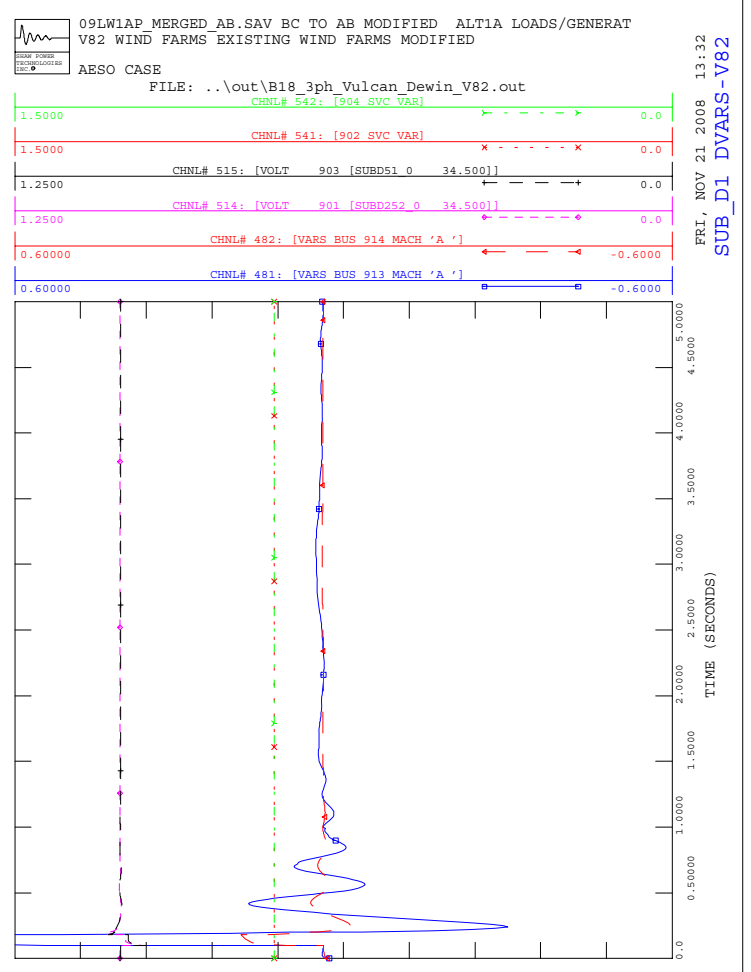
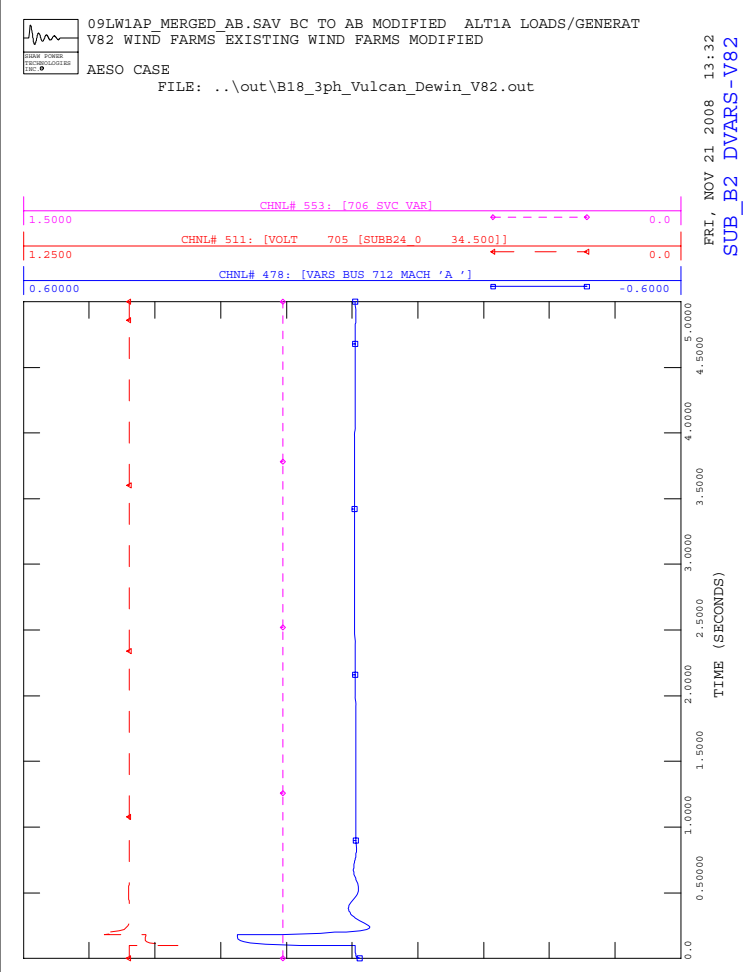
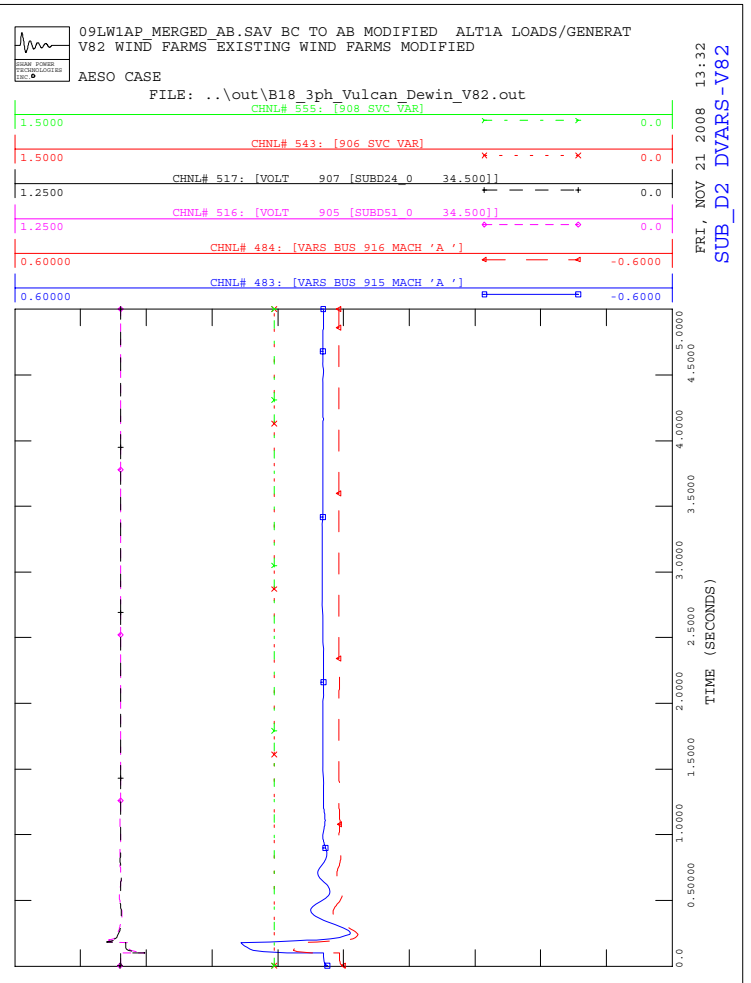
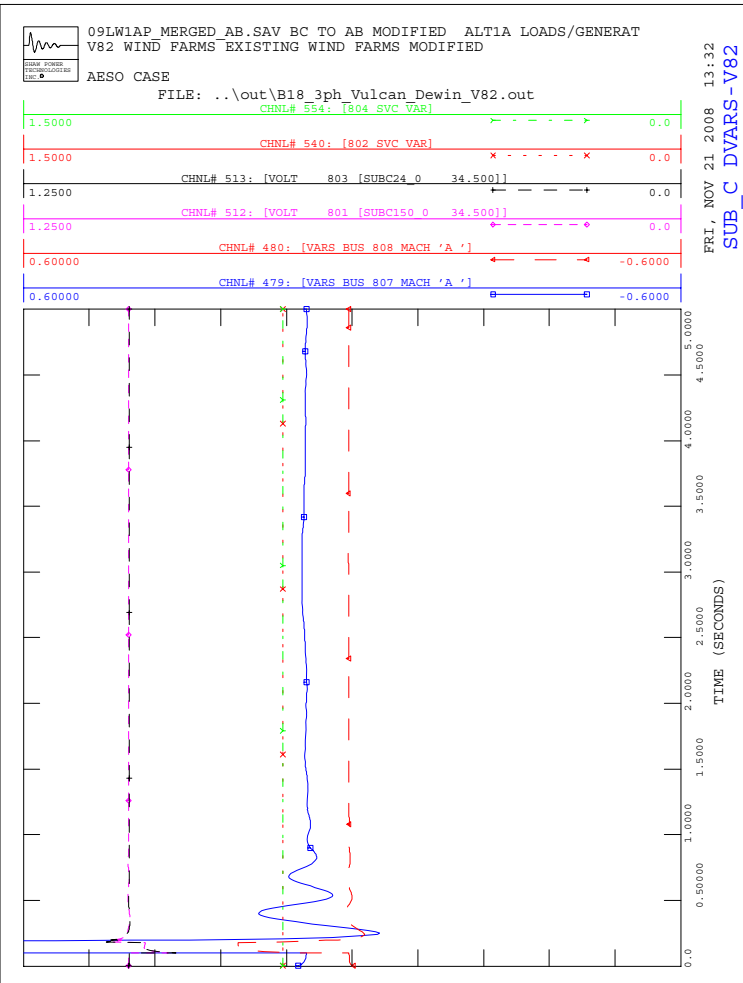


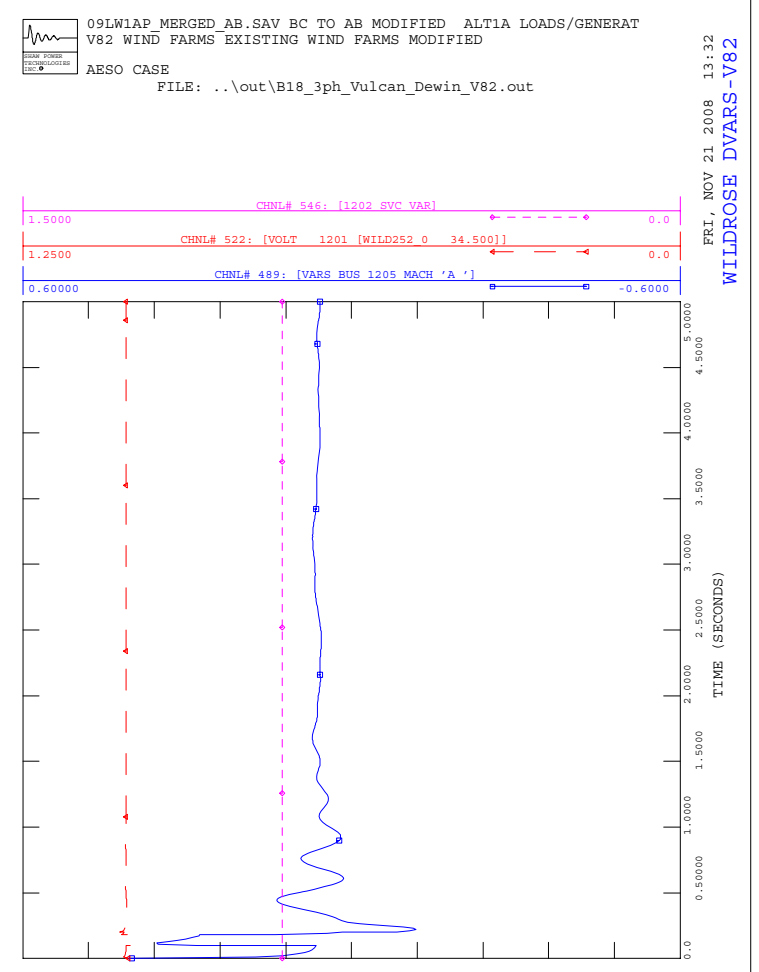
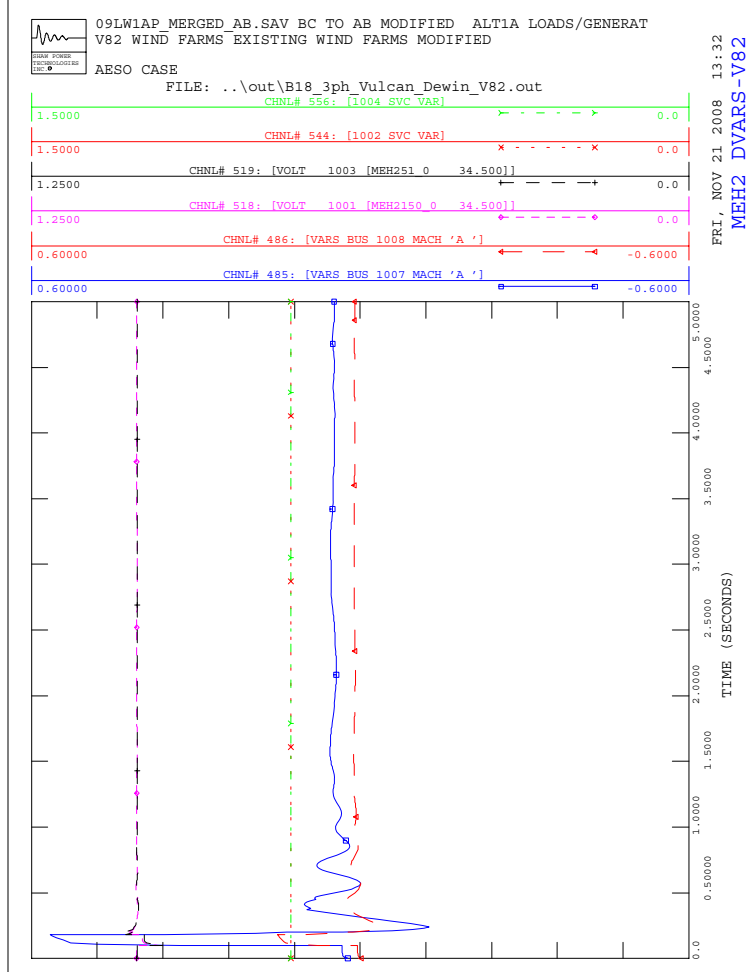
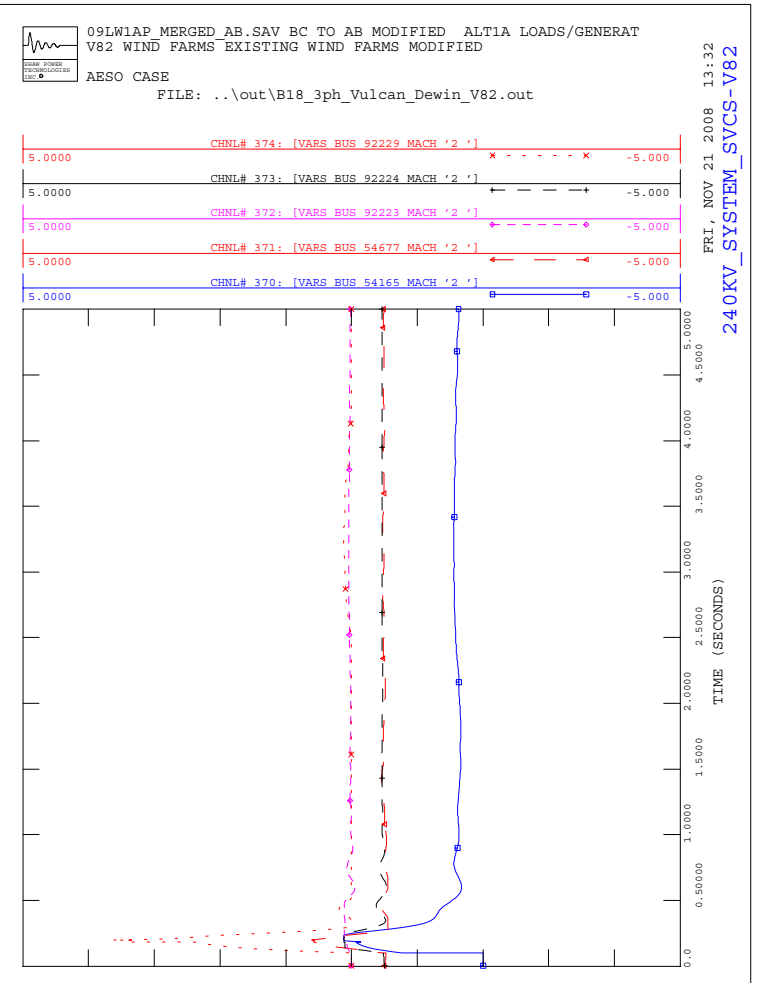
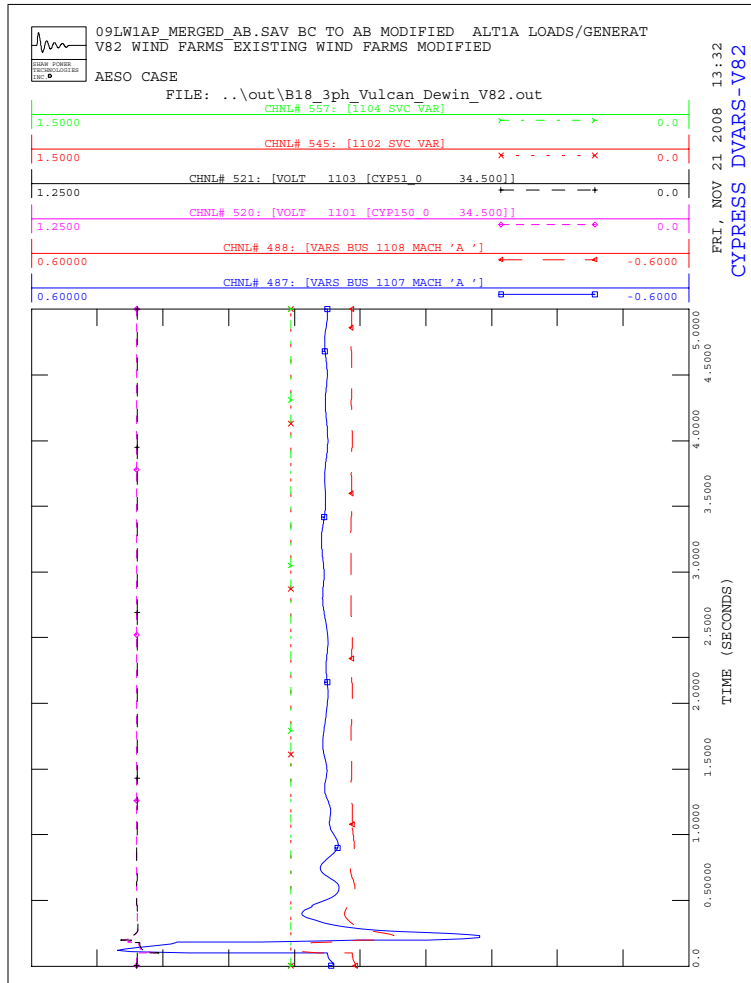








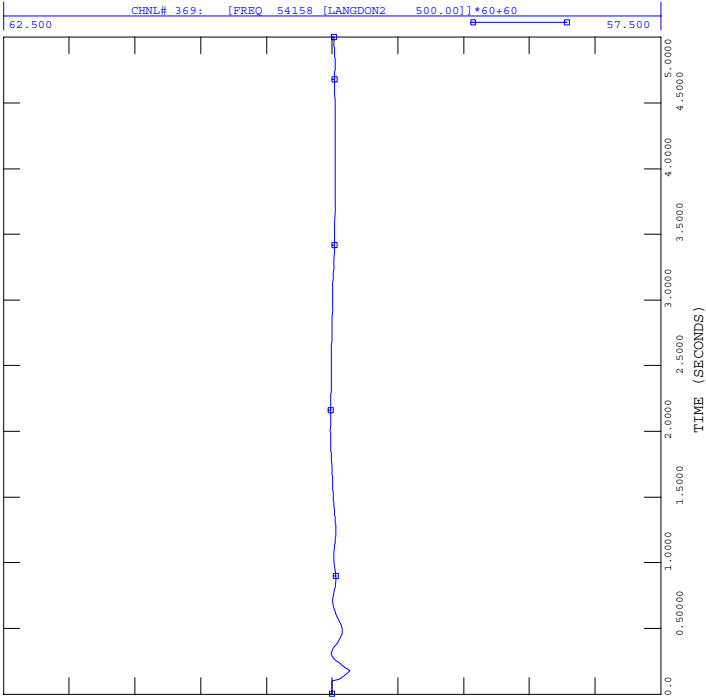






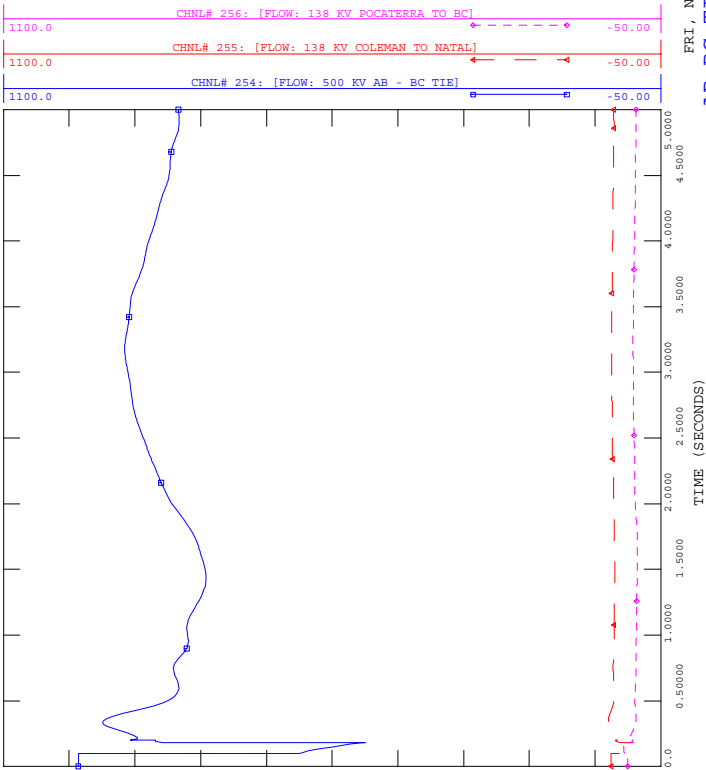
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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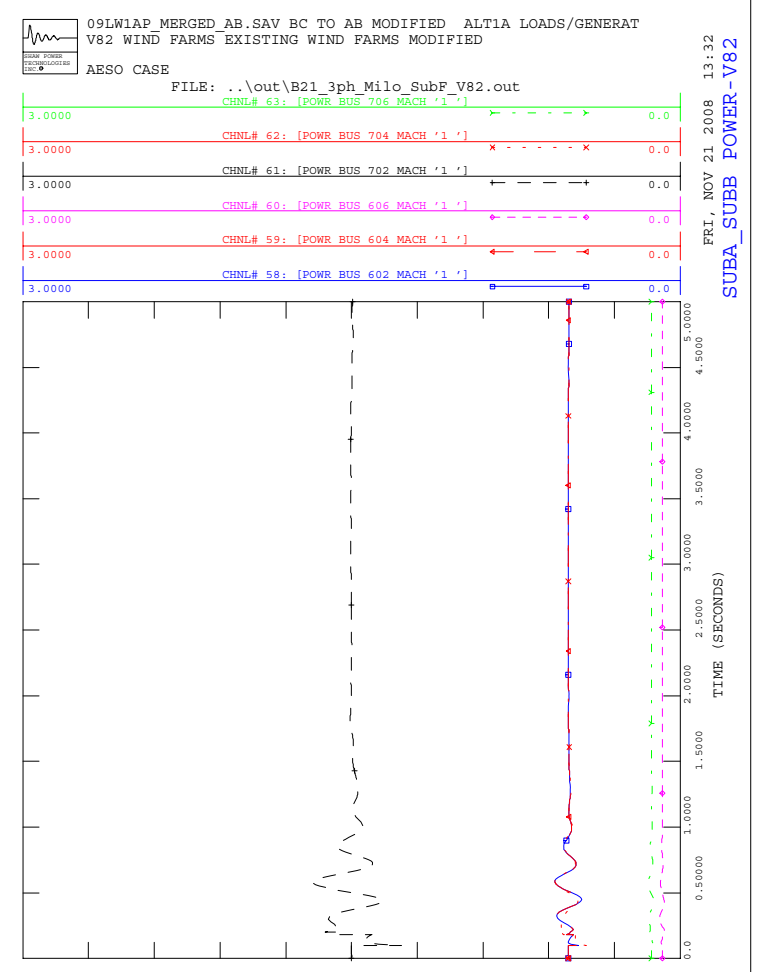
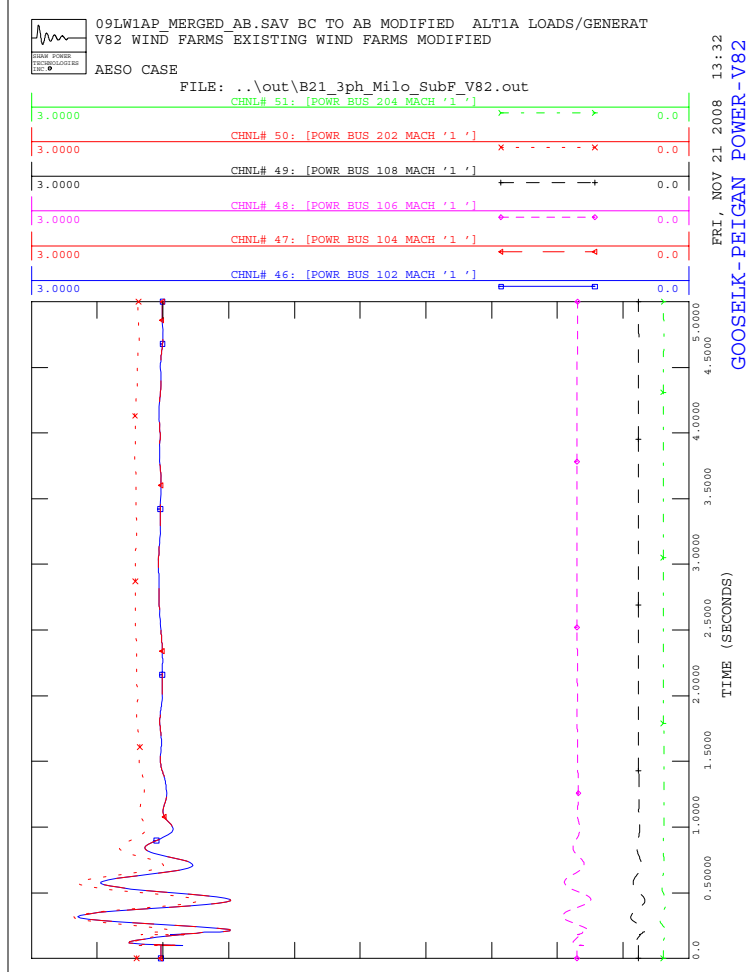
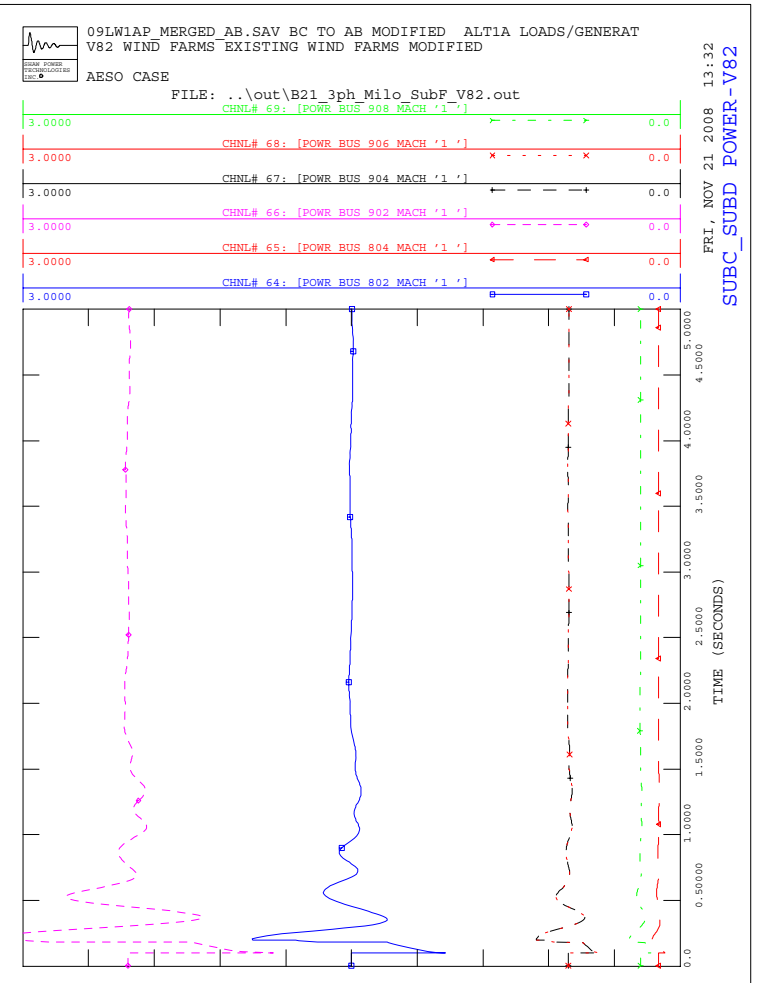
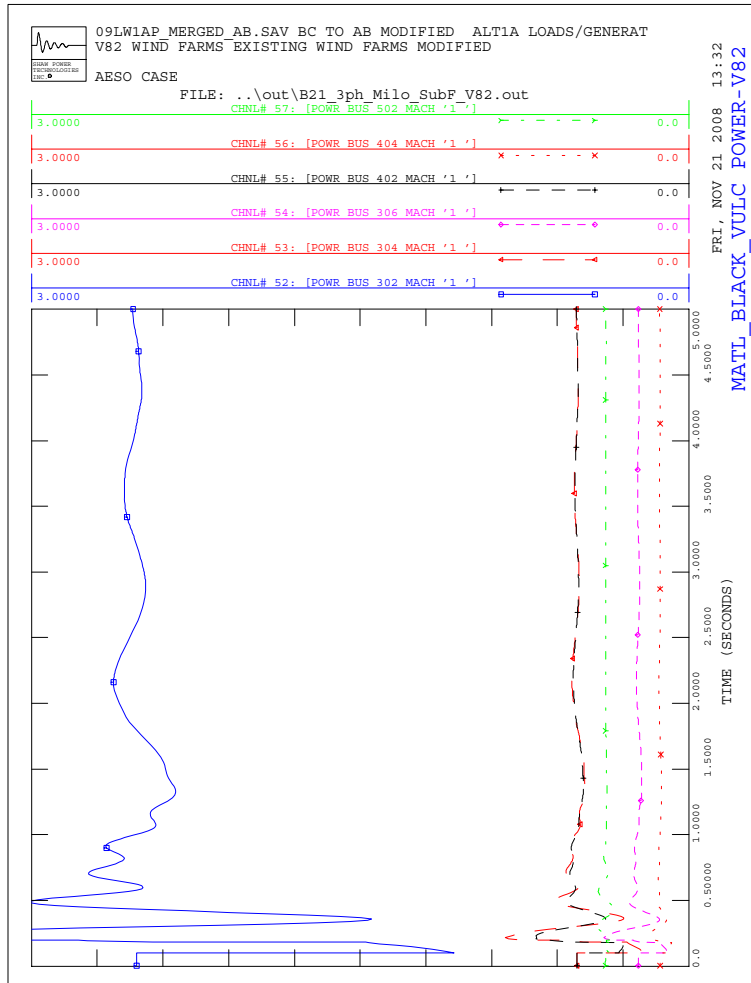
FRI, NOV 21 2008 13:32
LANGDON_FRQ-V82

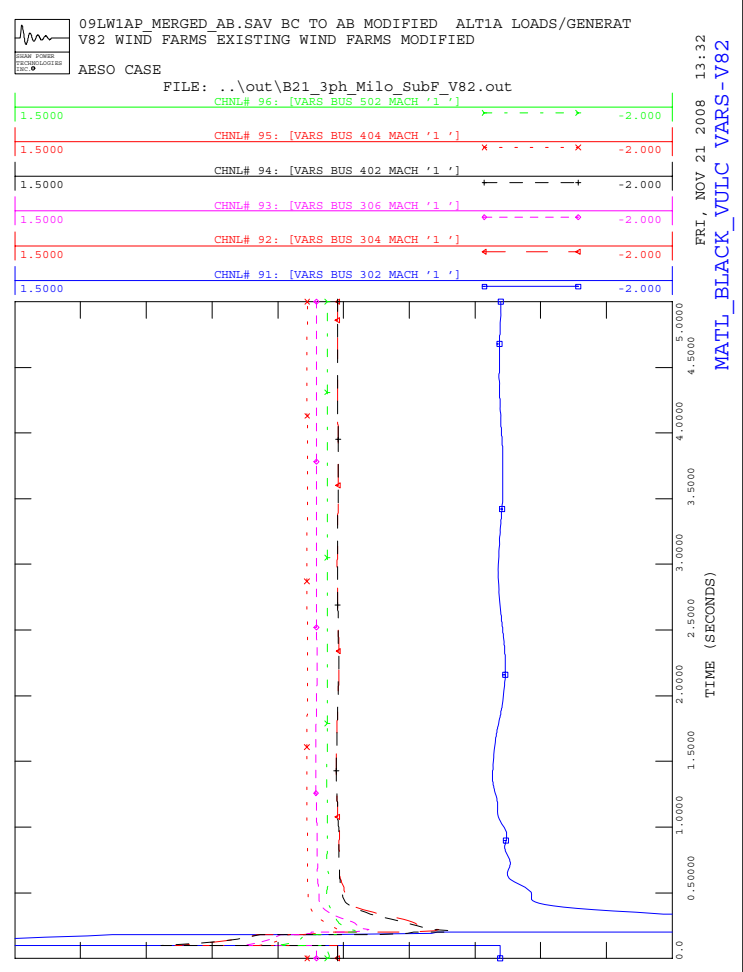
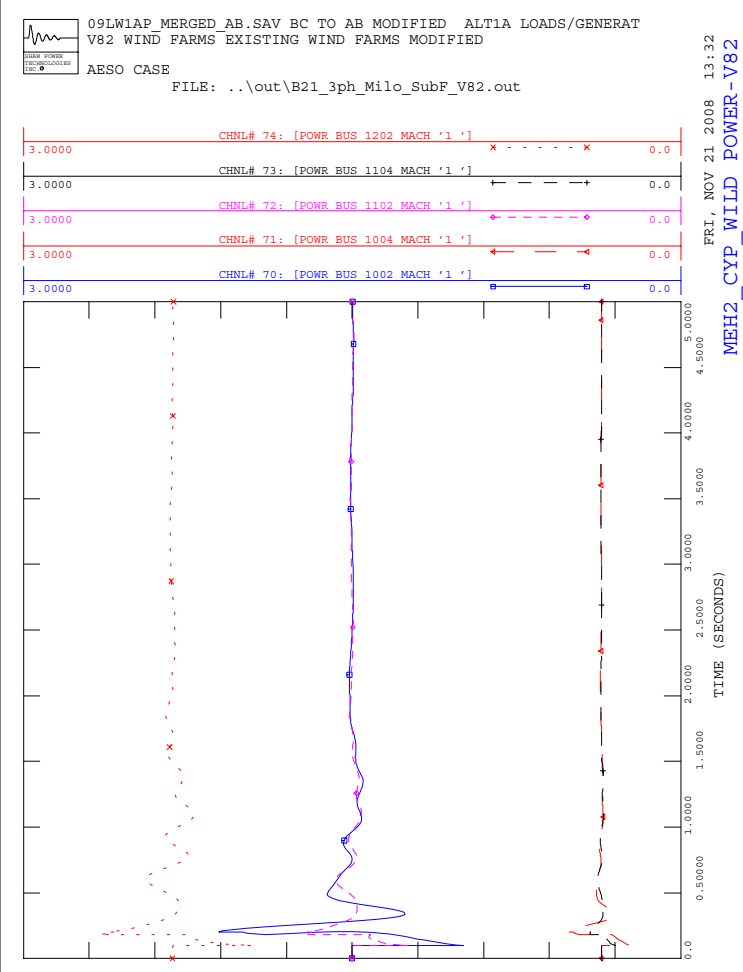
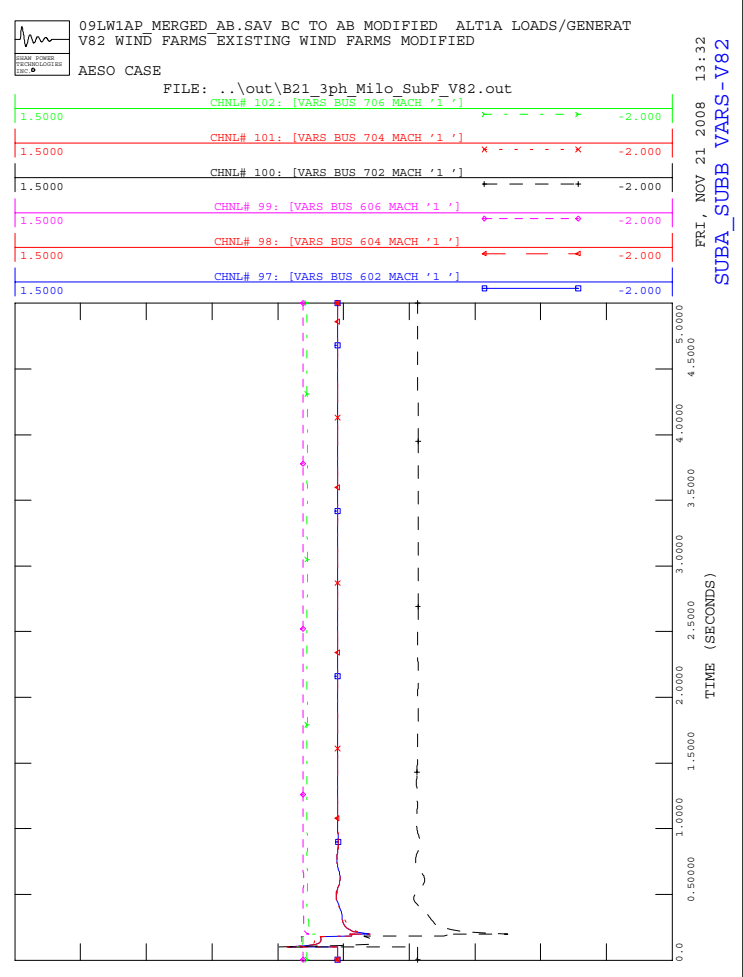
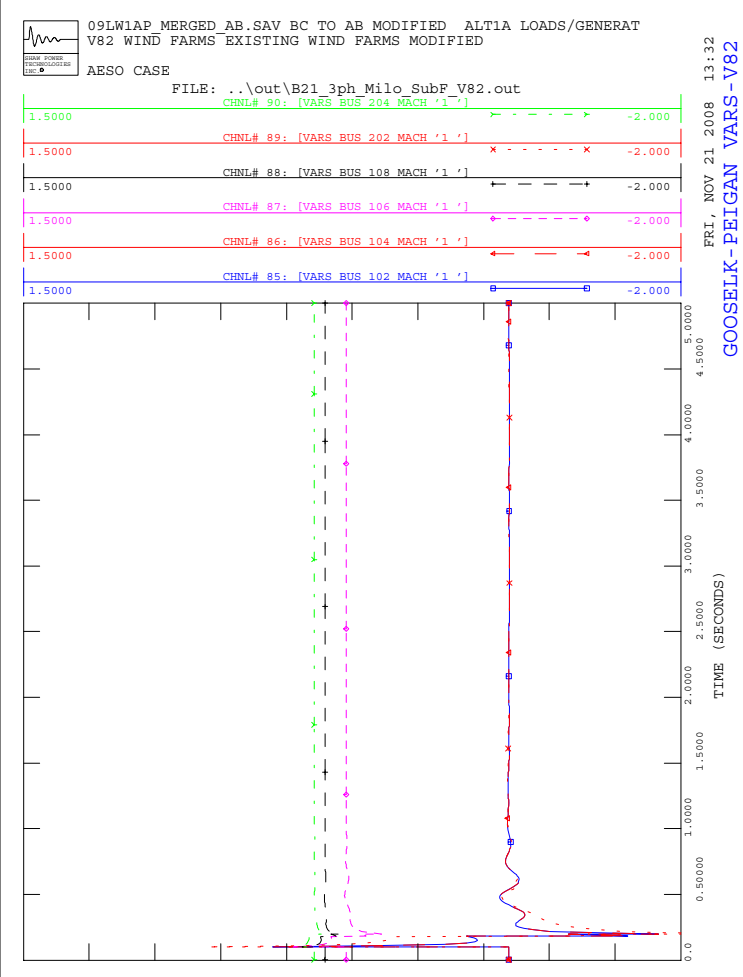


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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AB_BC_TIE_FLOWS-V82

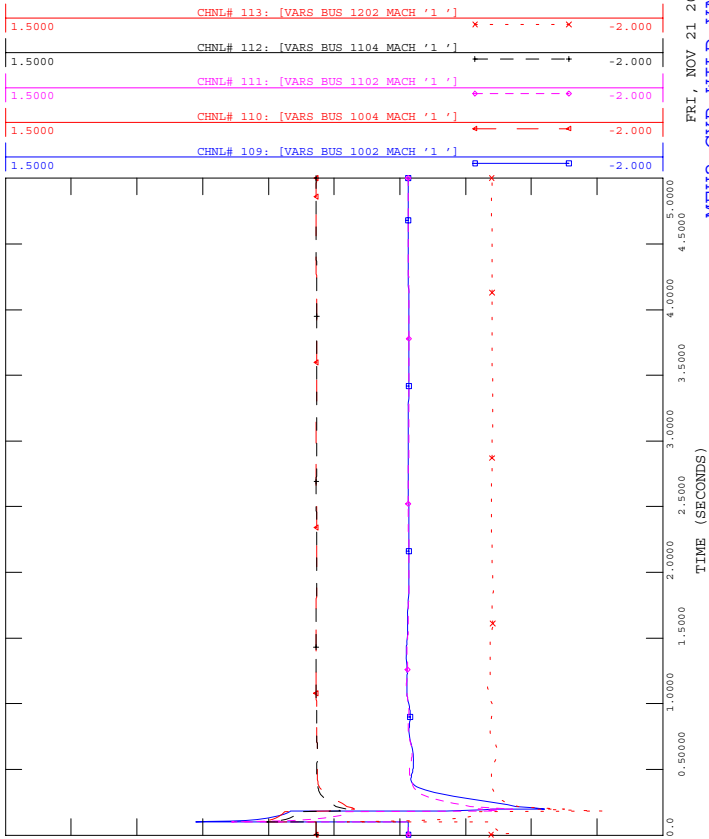






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 AESO CASE

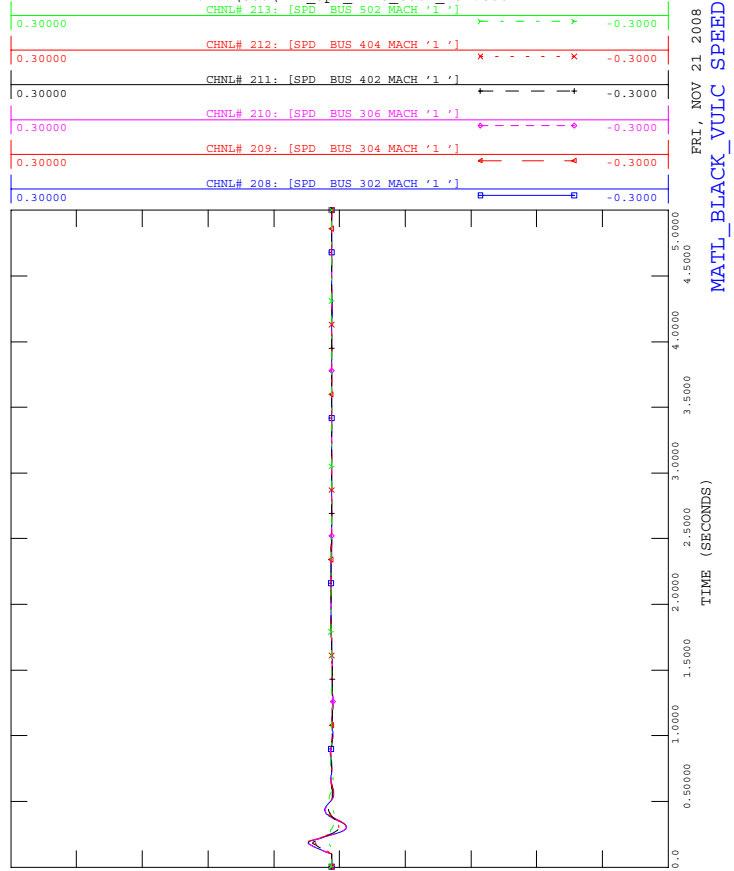
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 AESO CASE

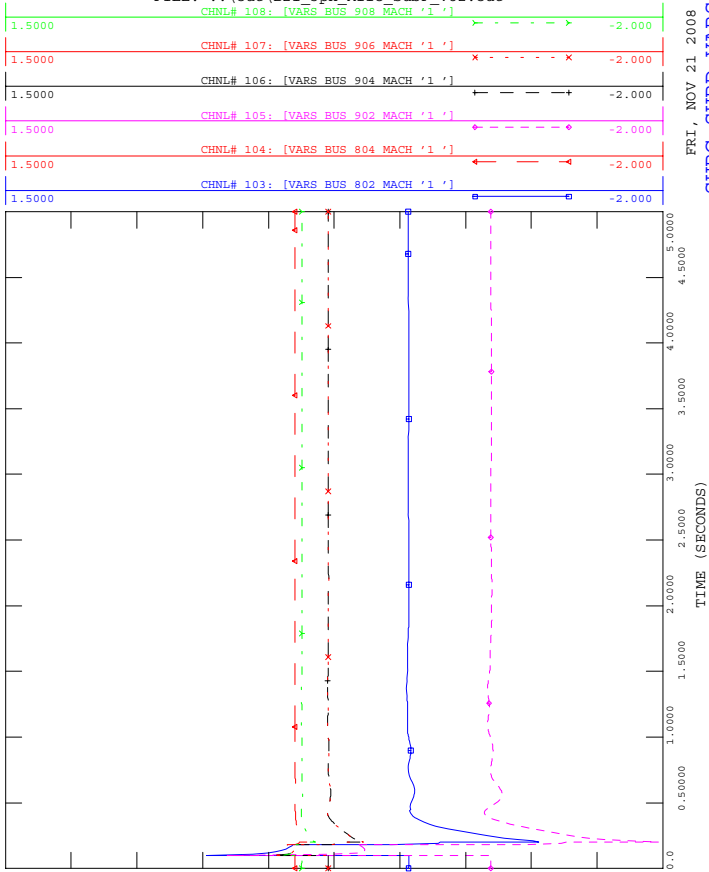
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

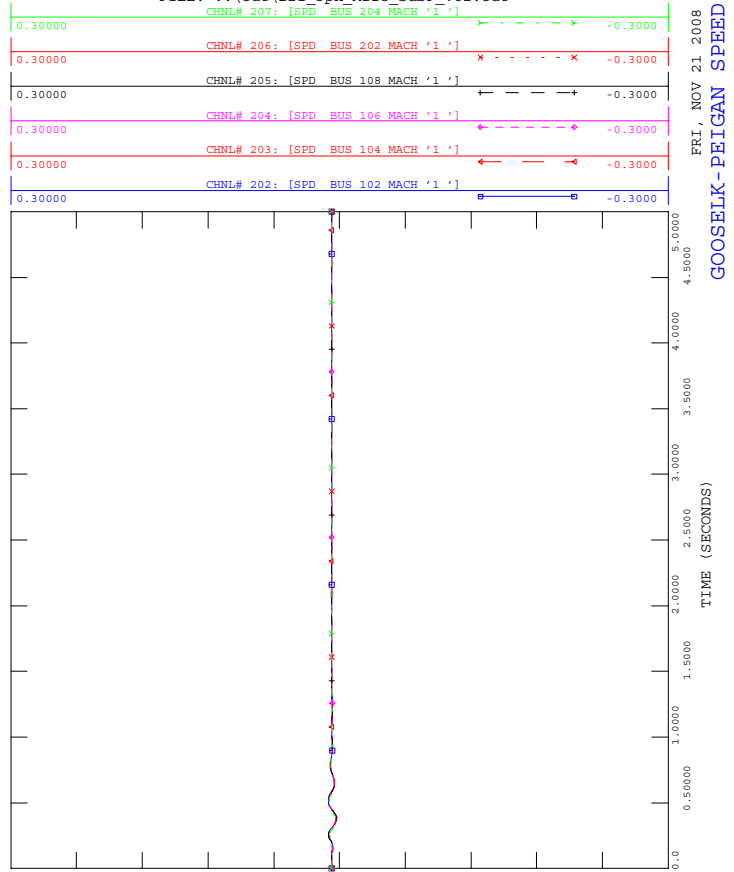
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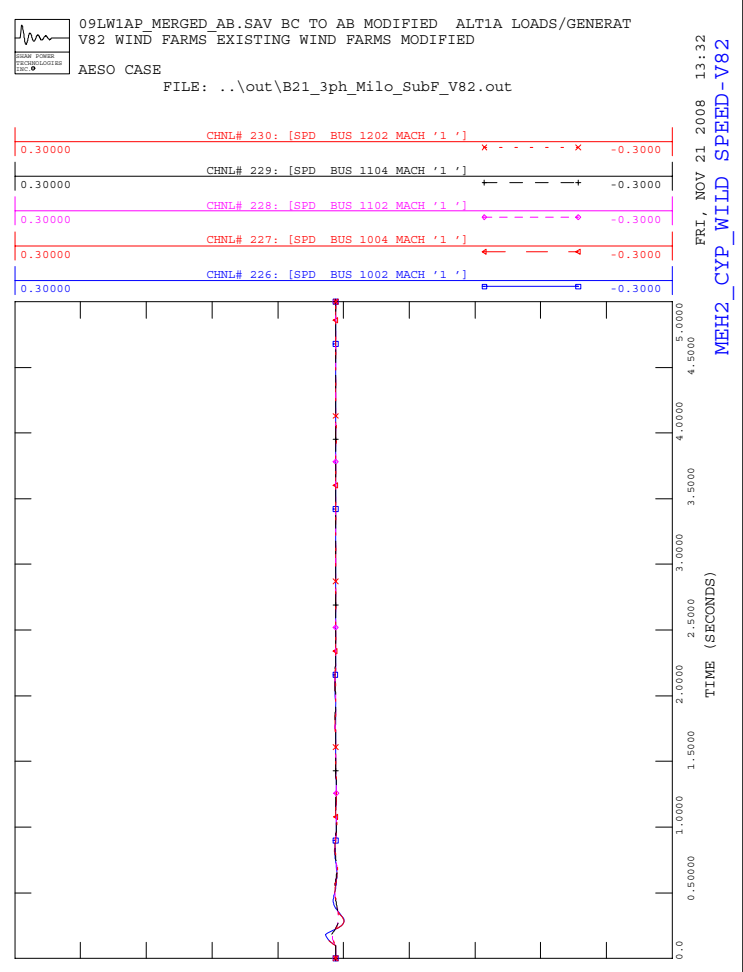
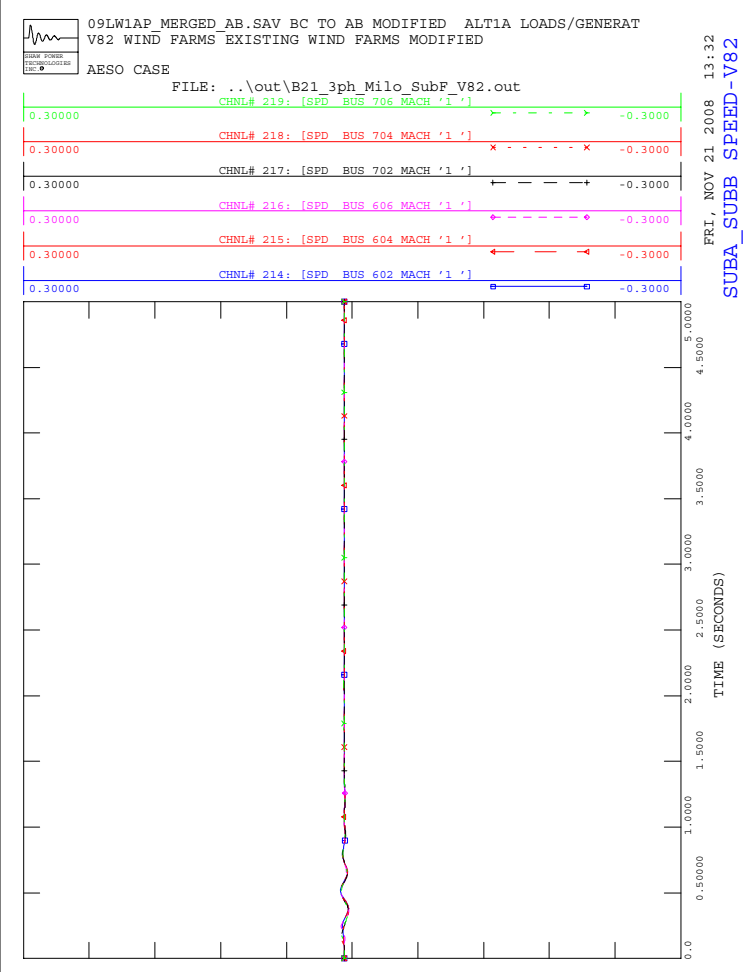
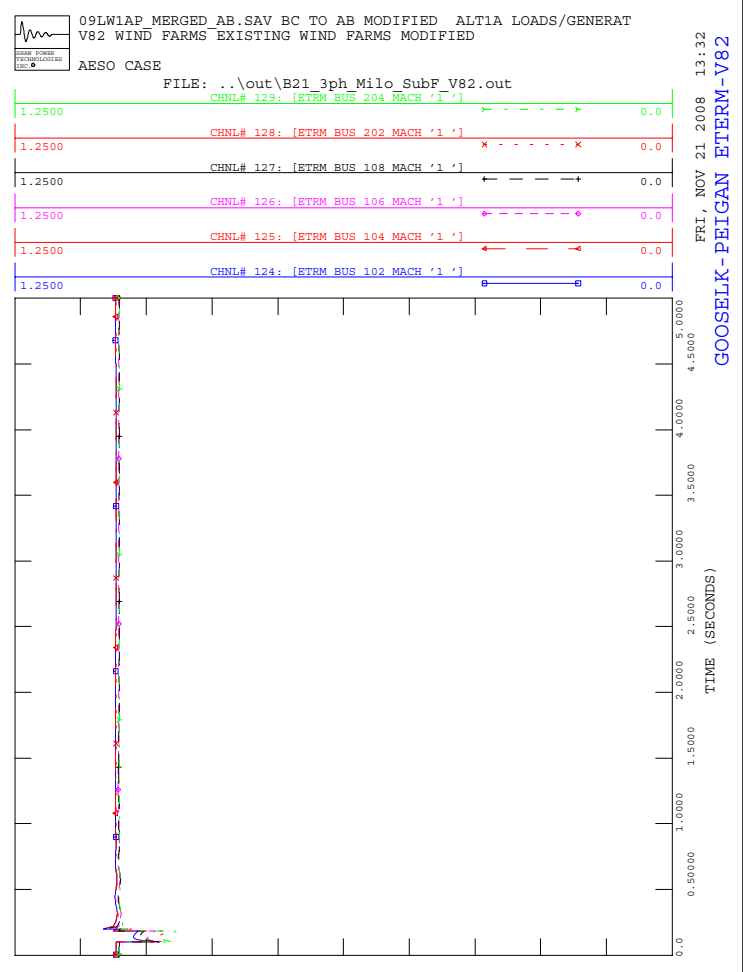
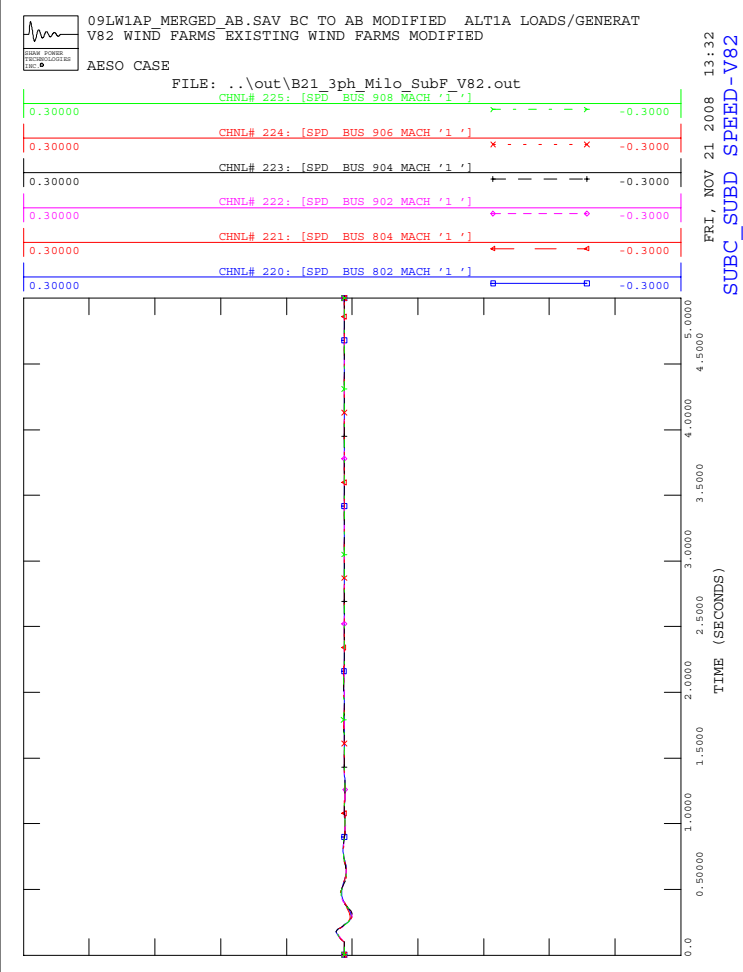
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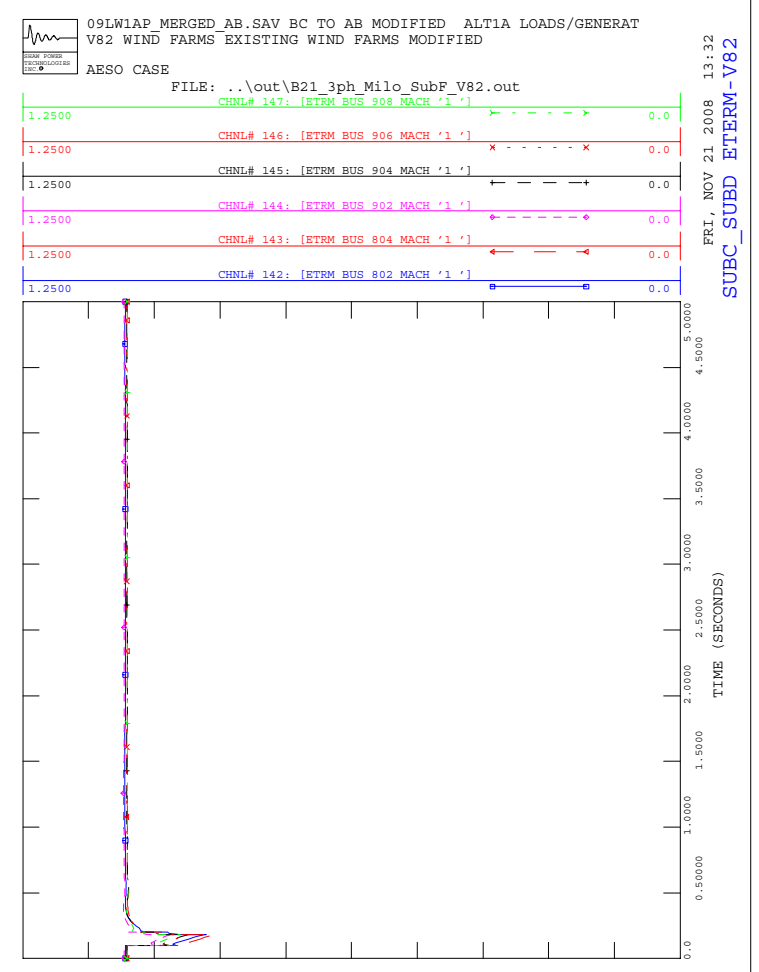
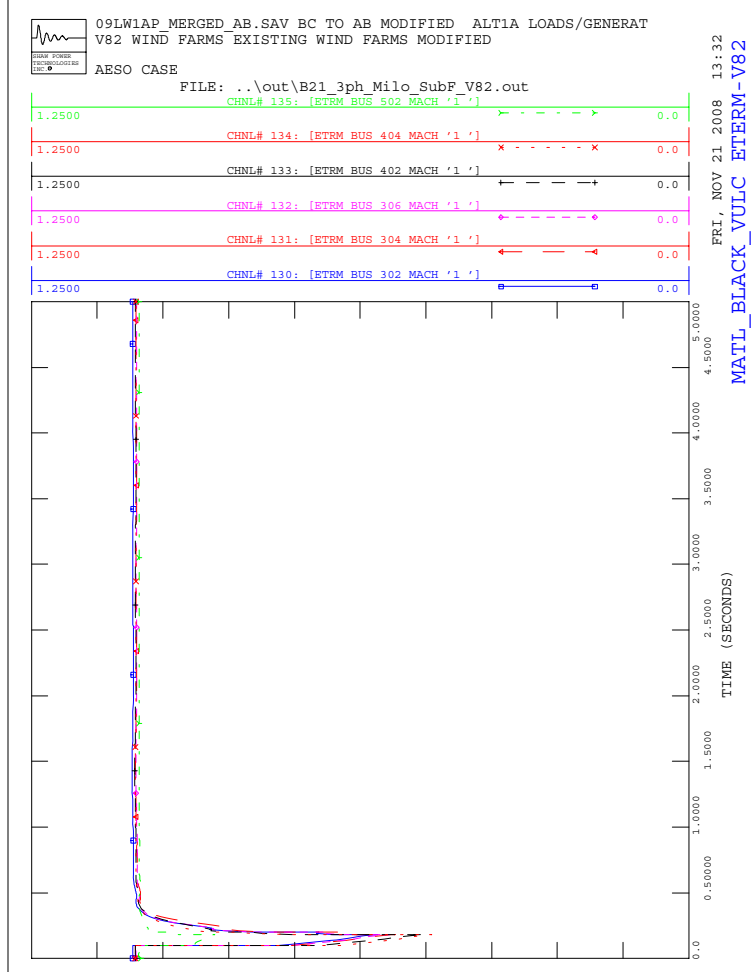
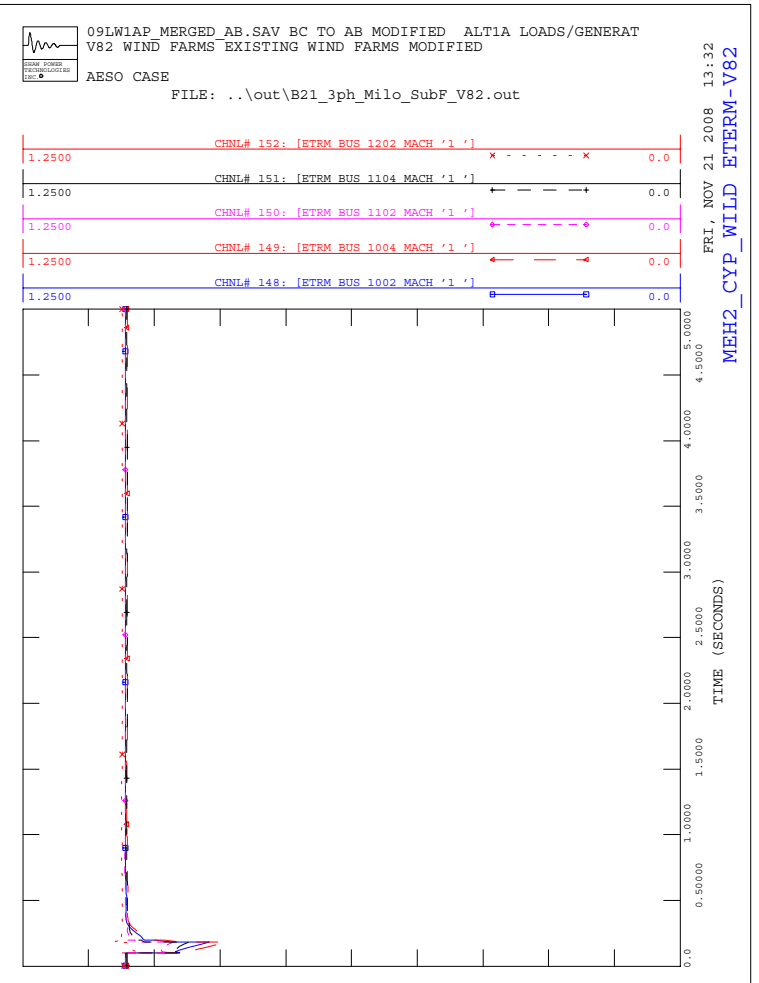
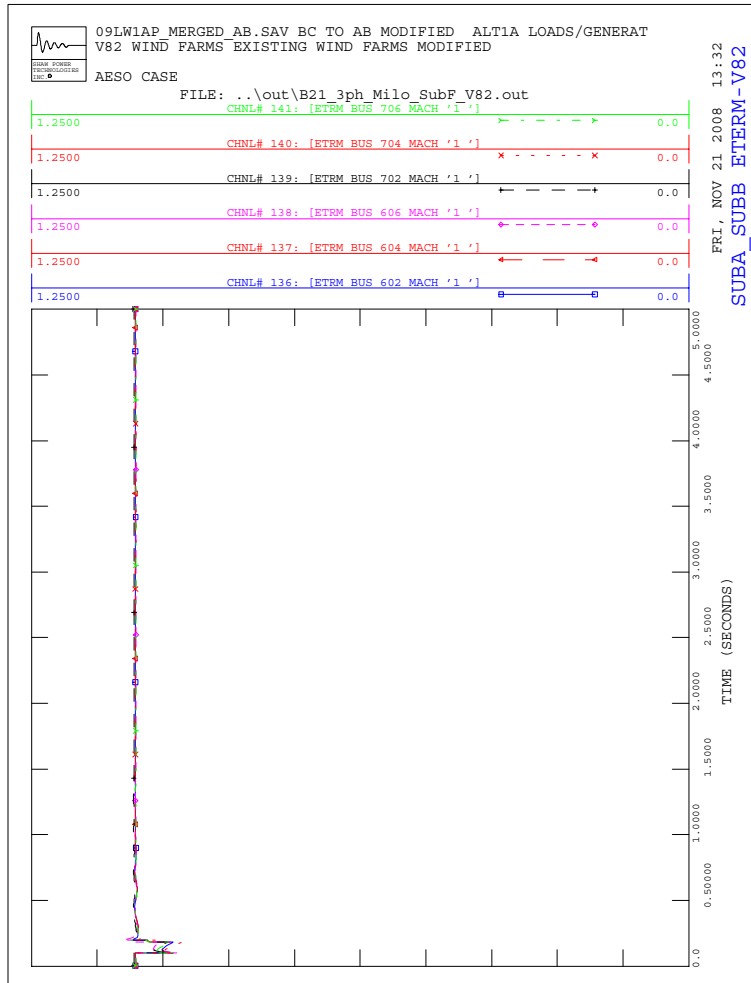
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

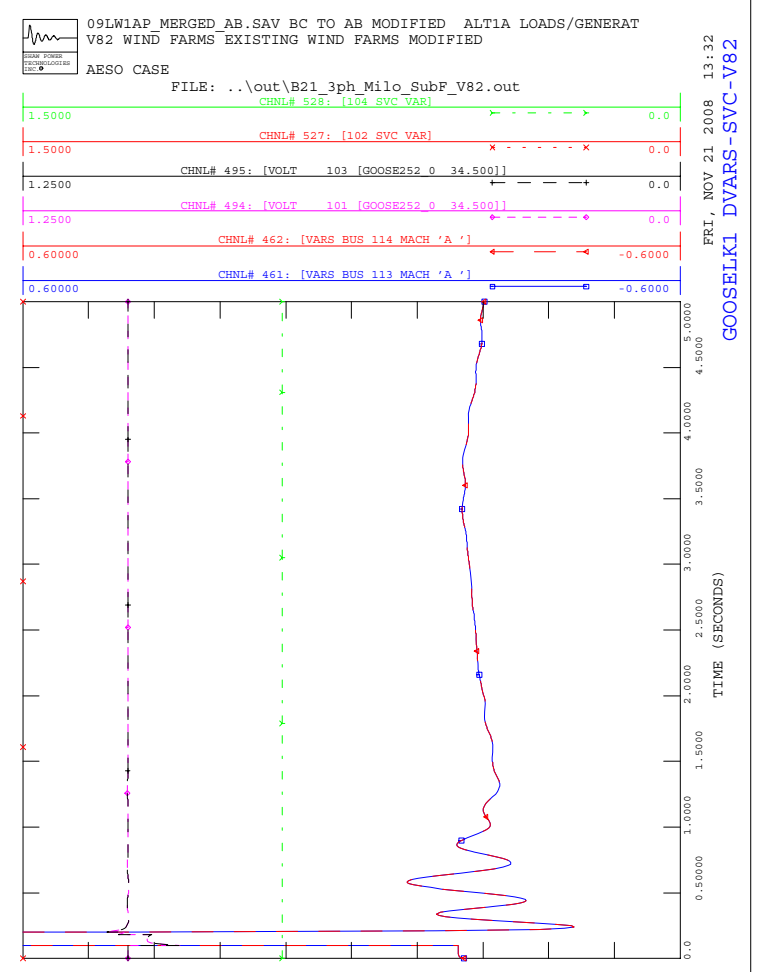
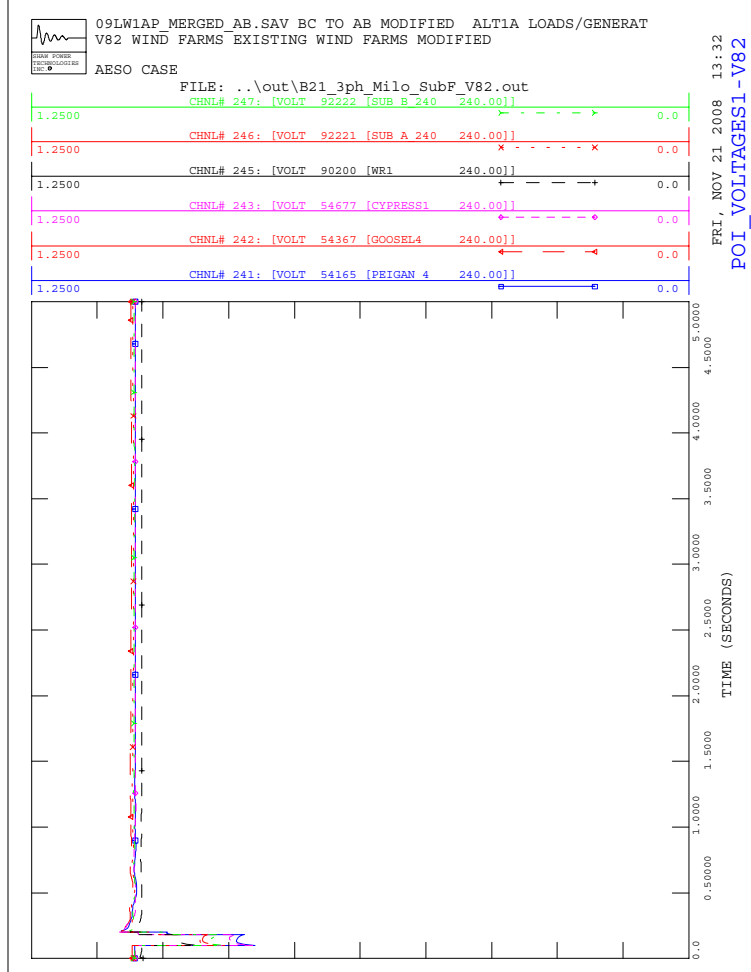
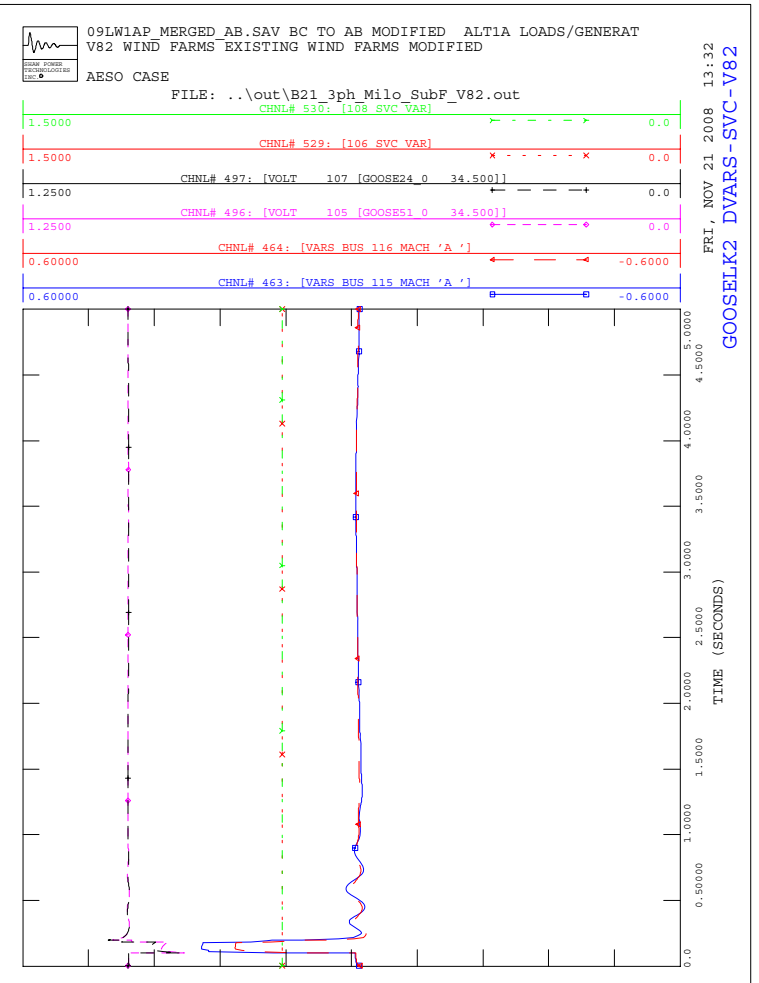
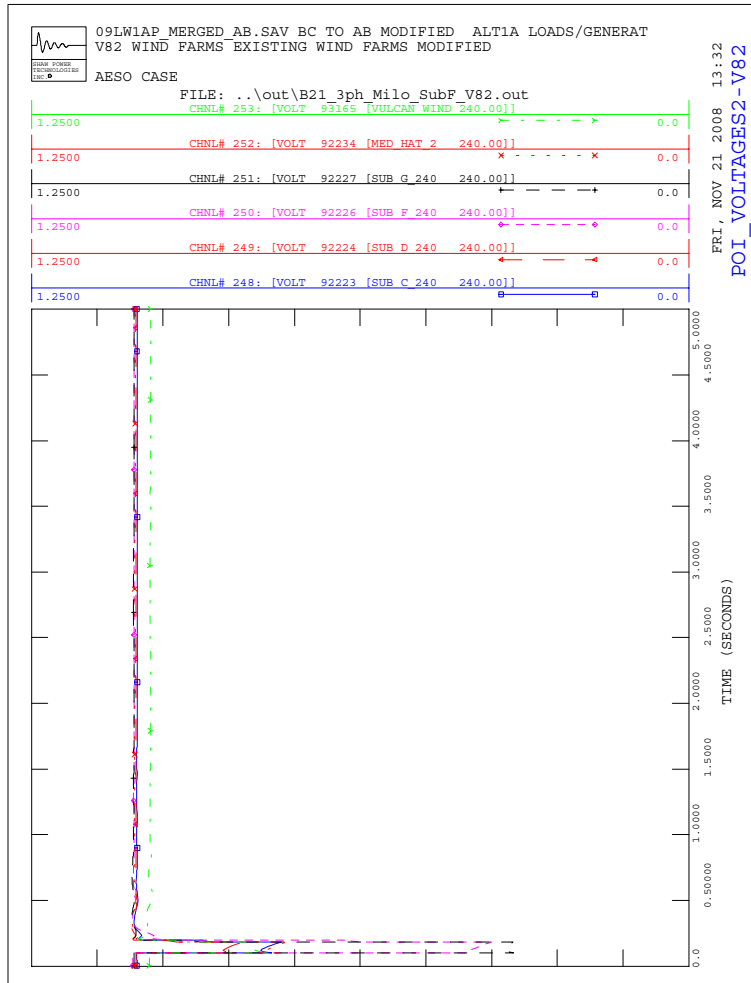
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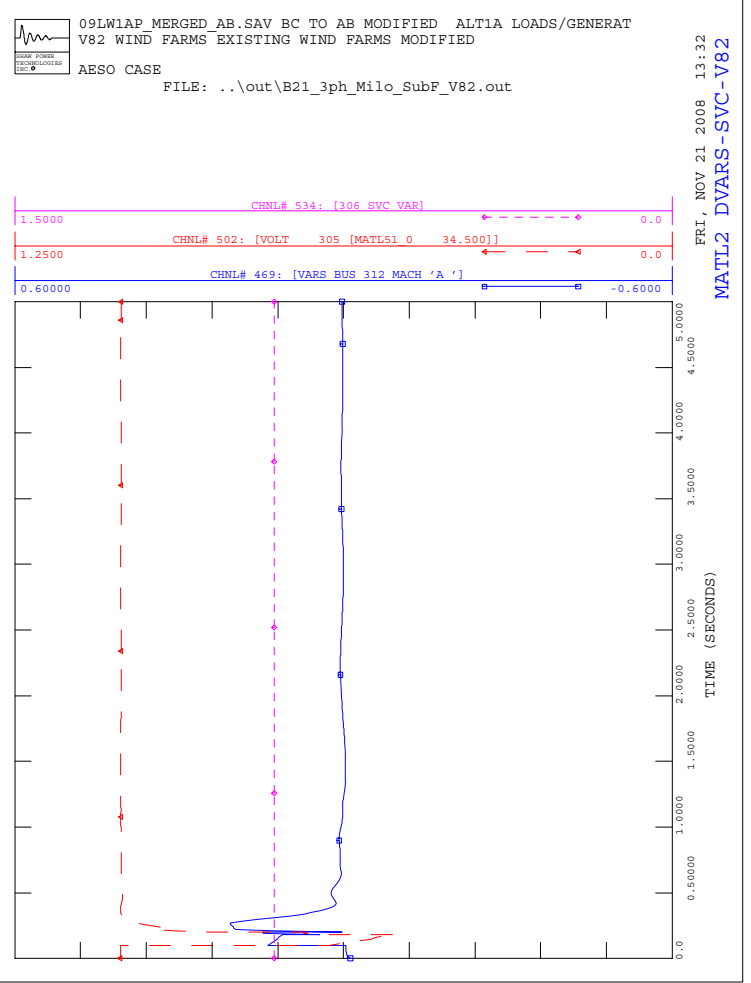
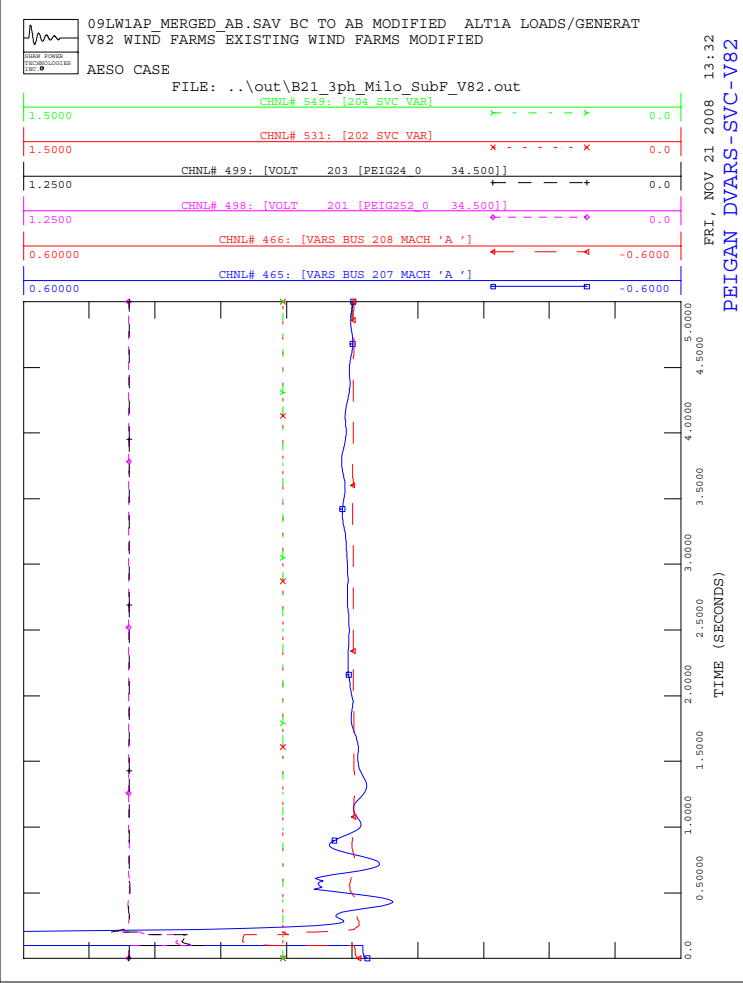
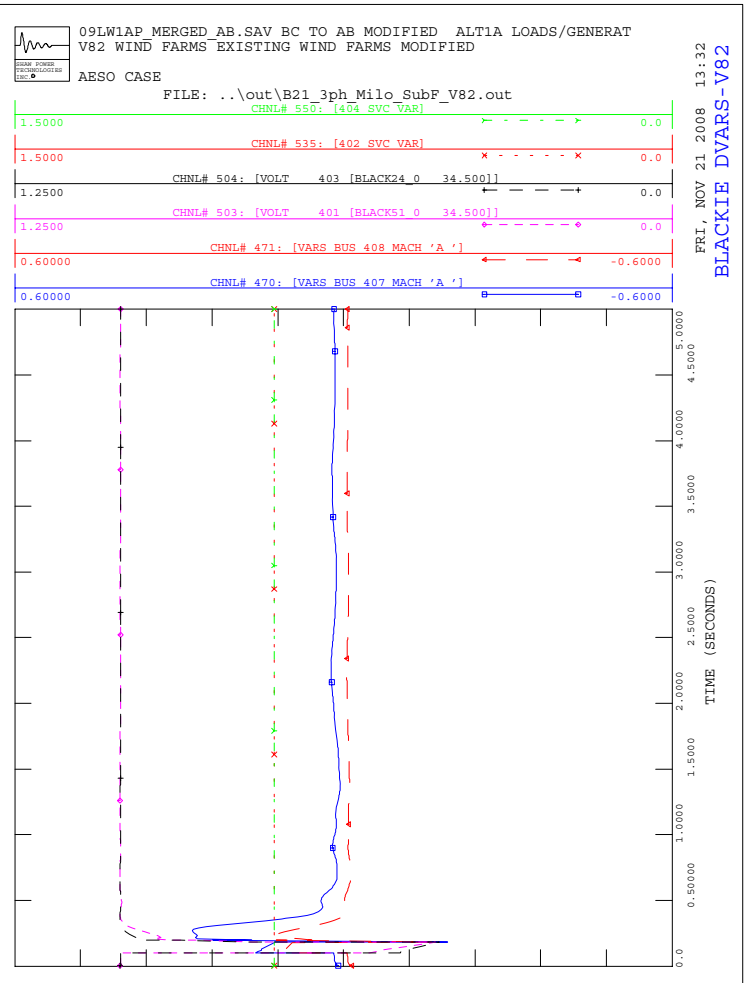
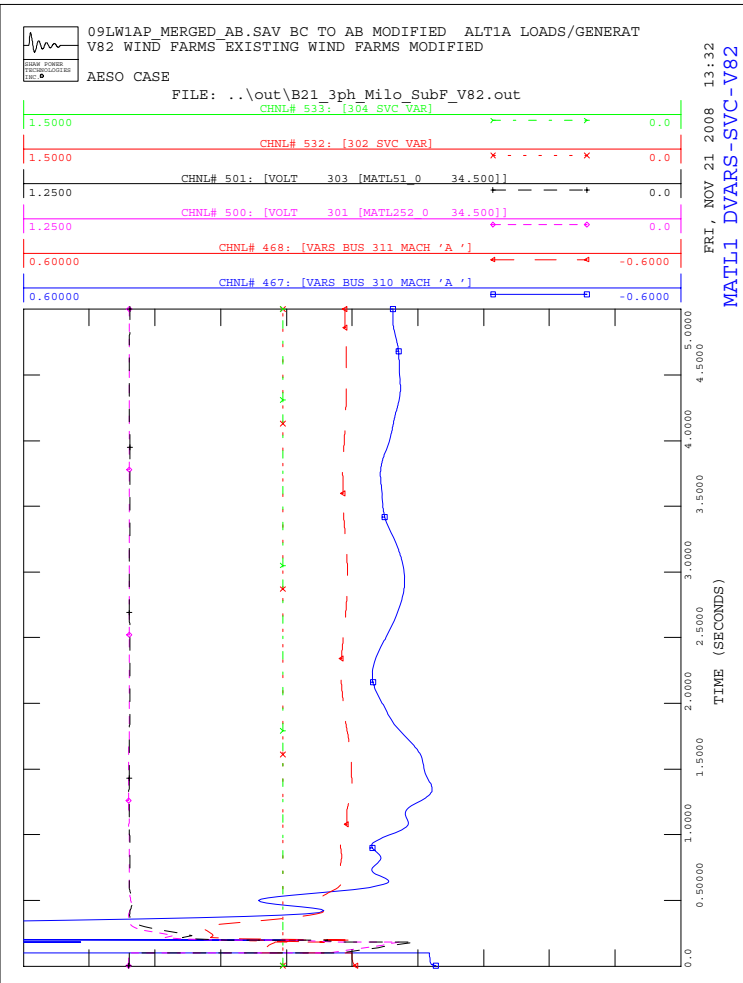


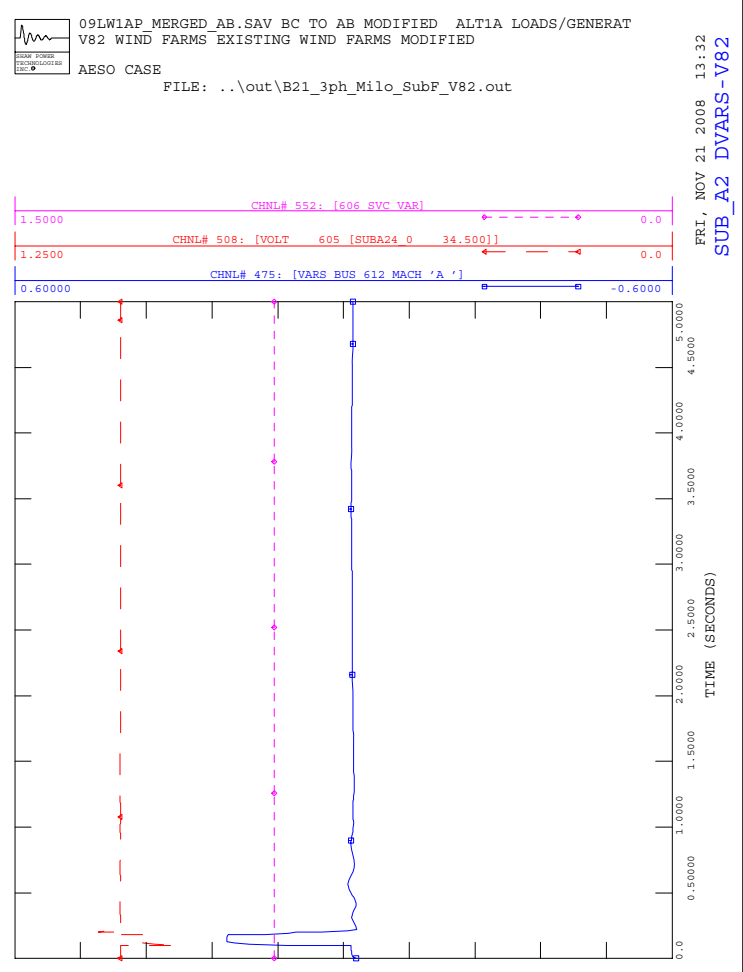
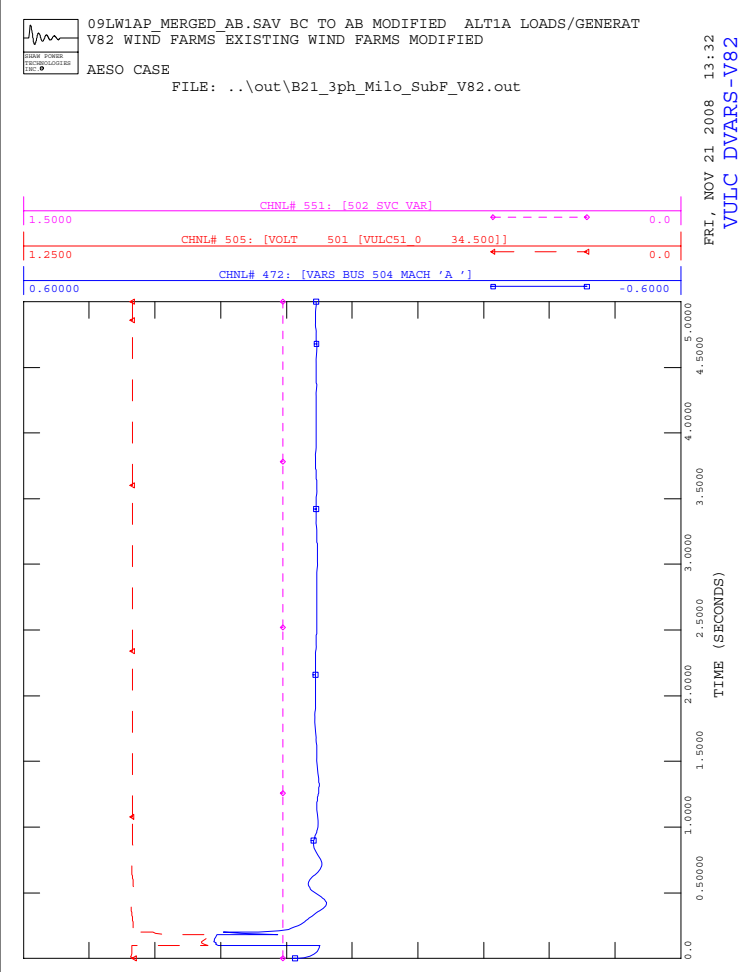
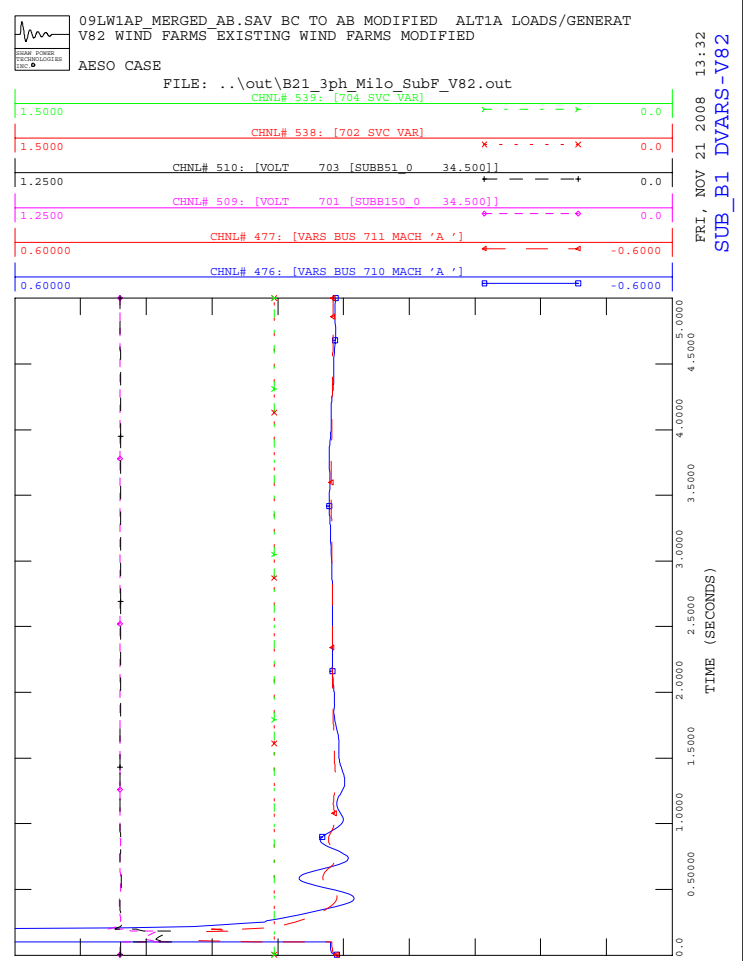
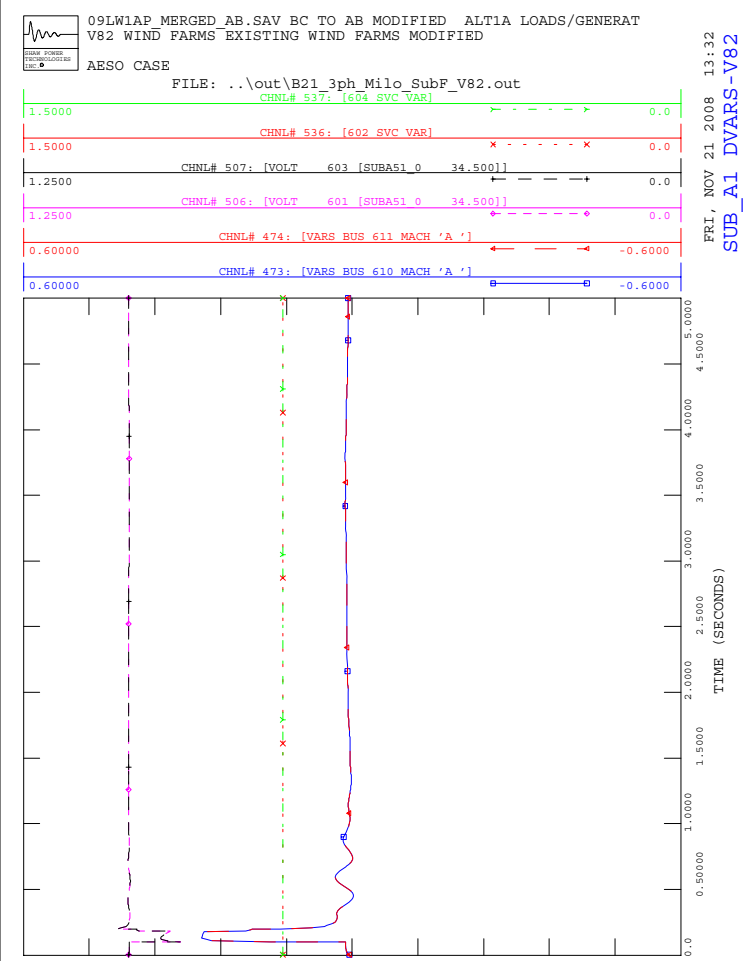
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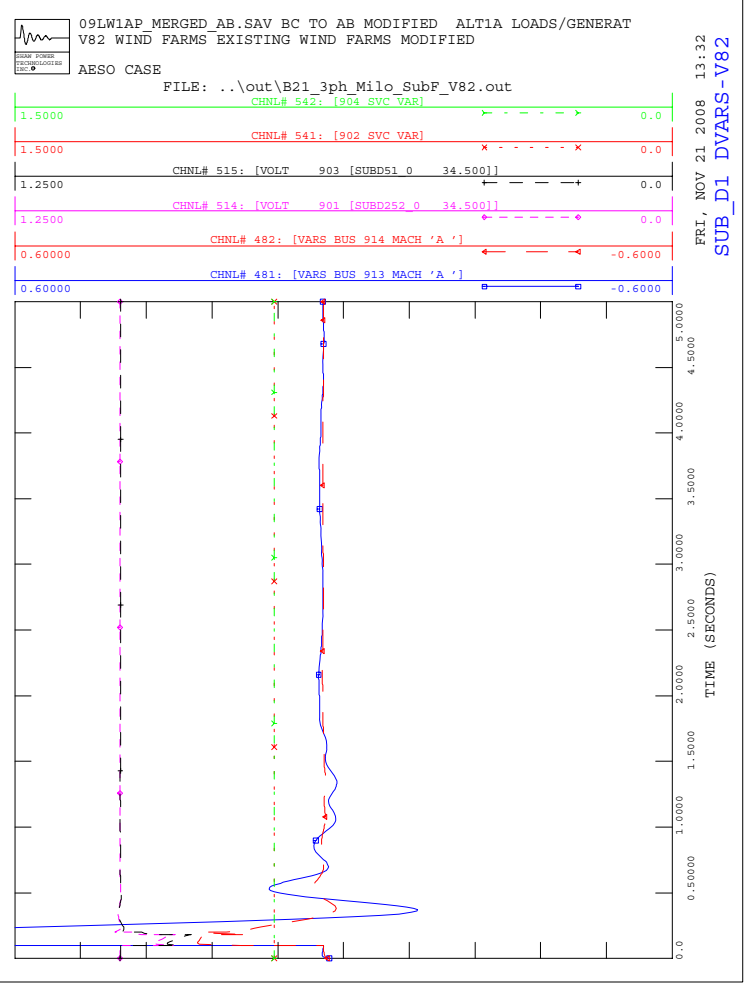
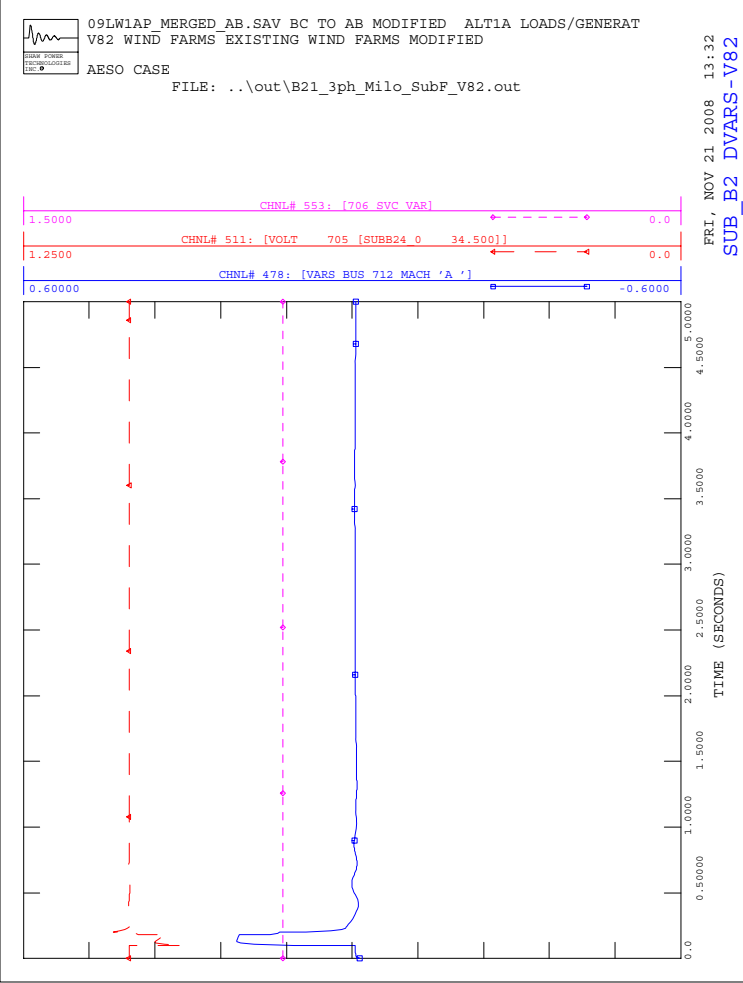
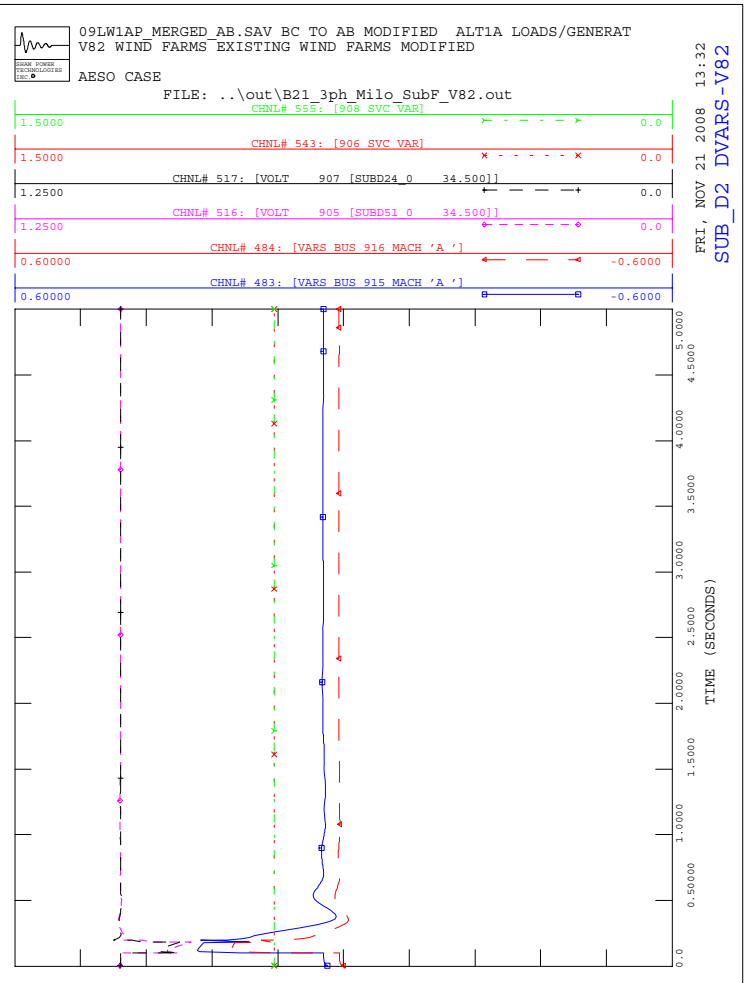
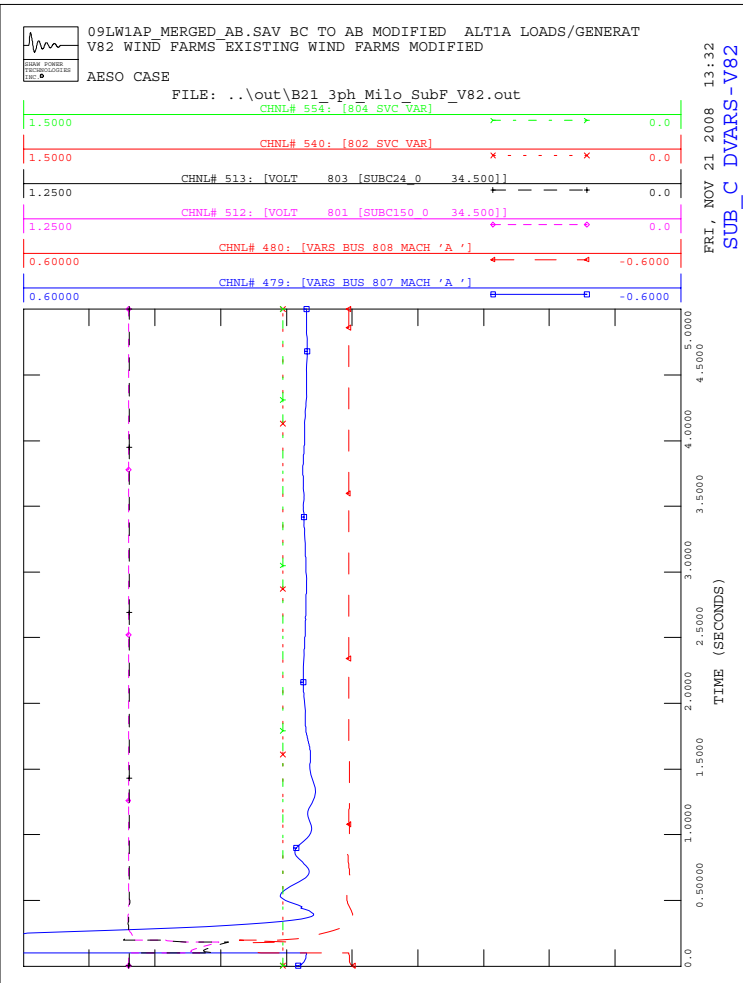


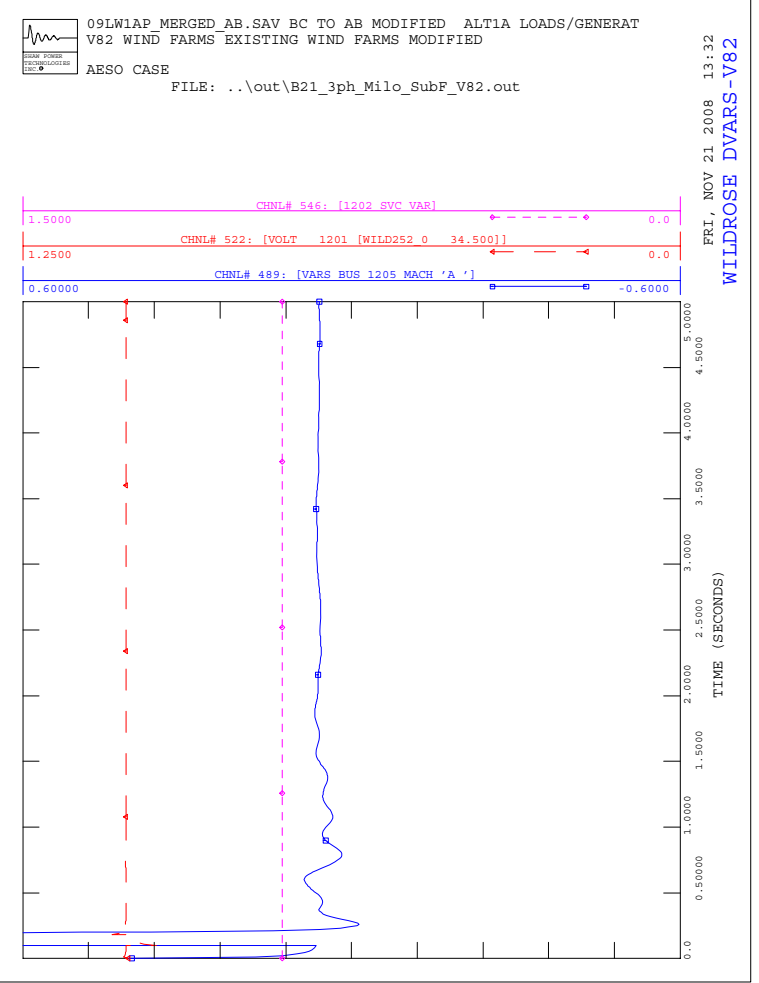
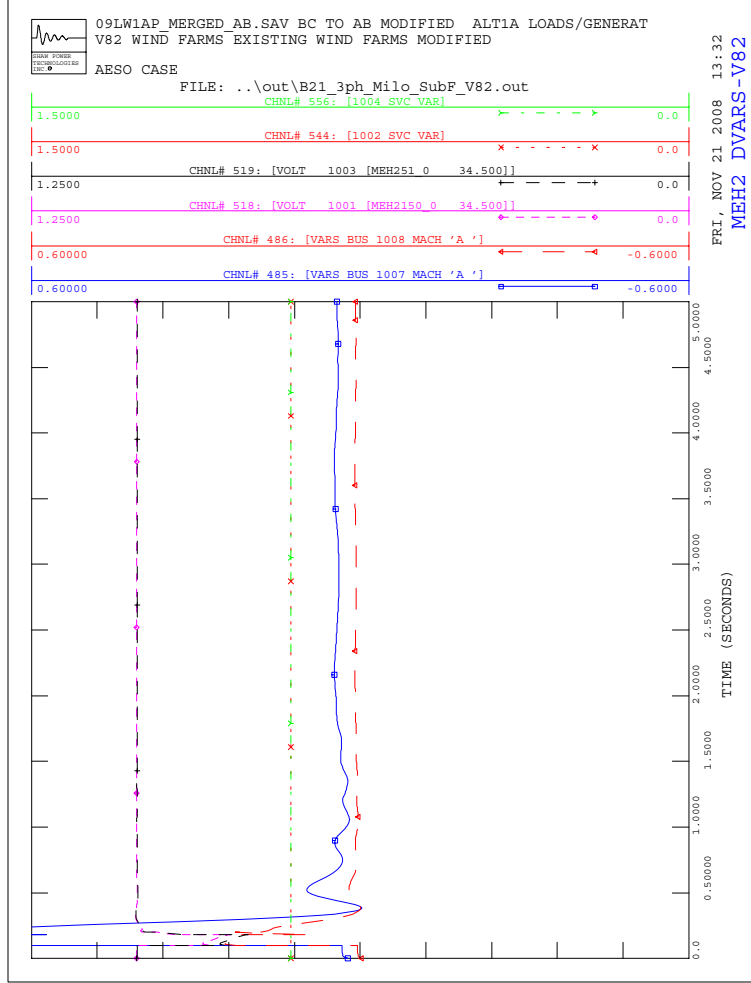
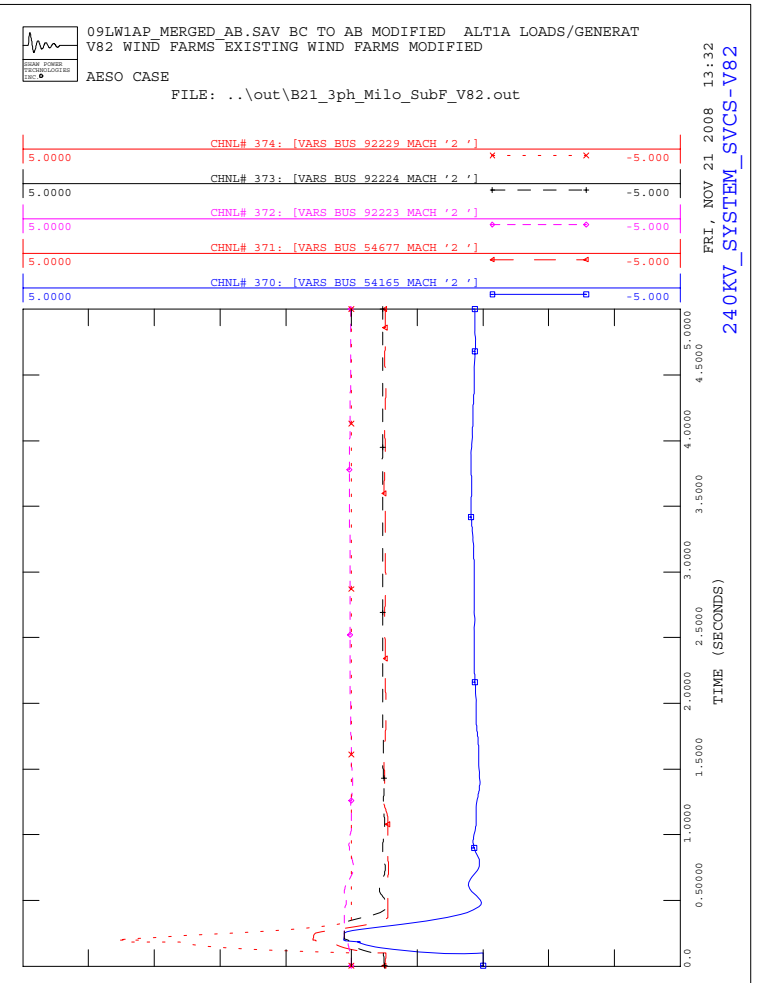
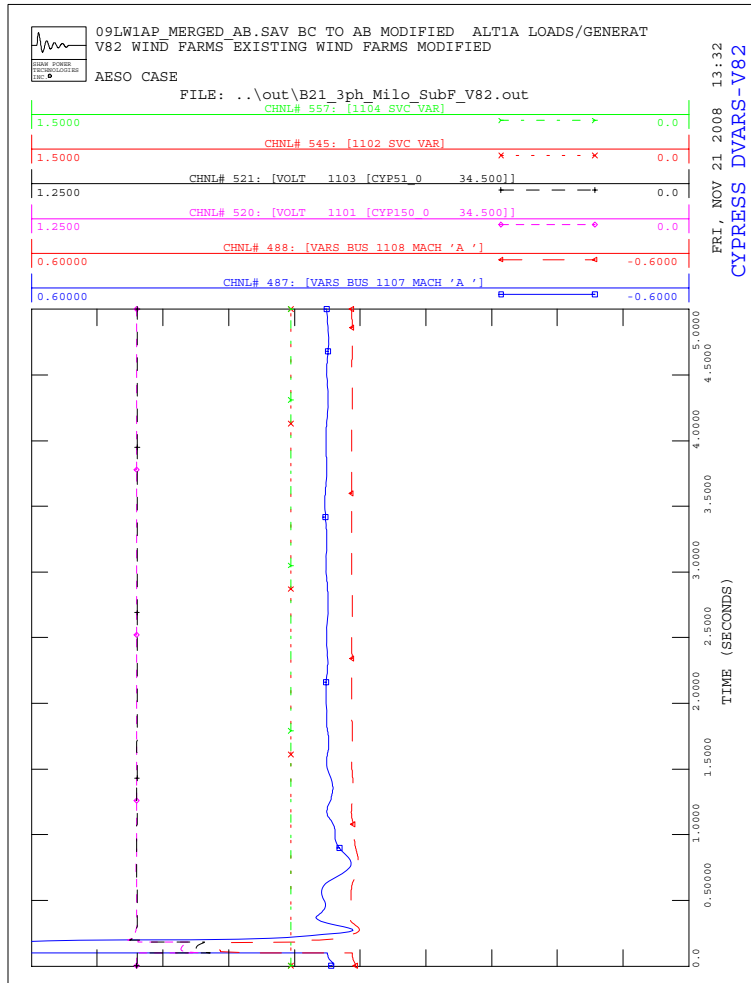












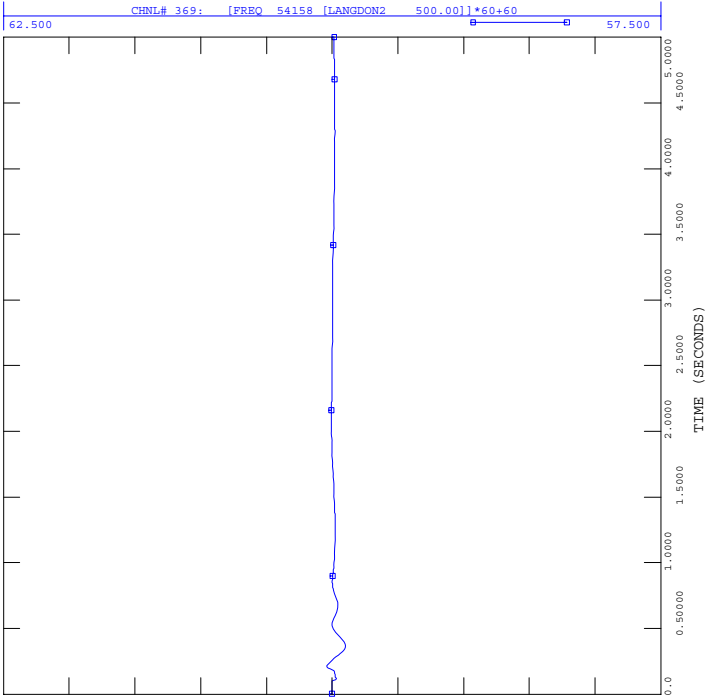


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B21_3ph_Milo_SubF_V82.out

FRI, NOV 21 2008 13:32
LANGDON_FRQ-V82

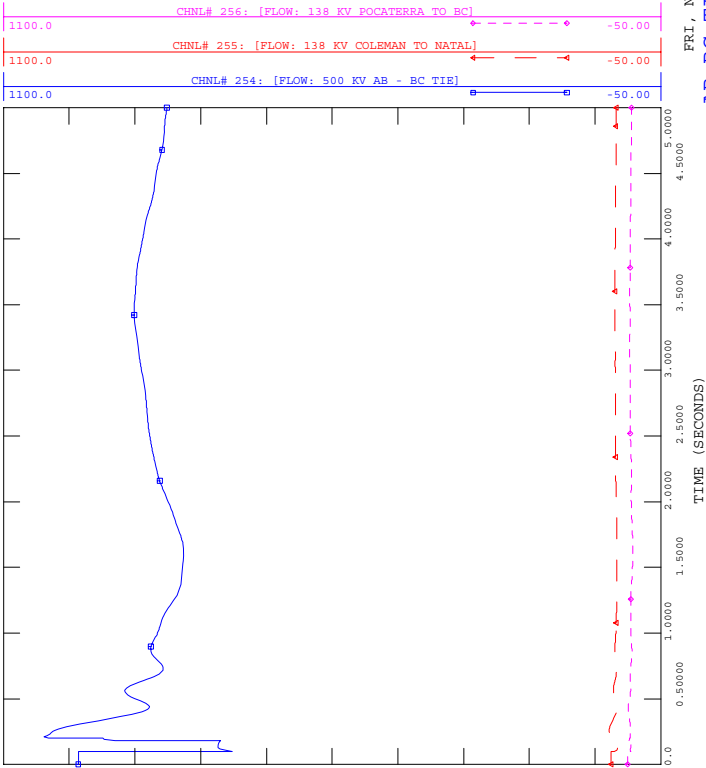


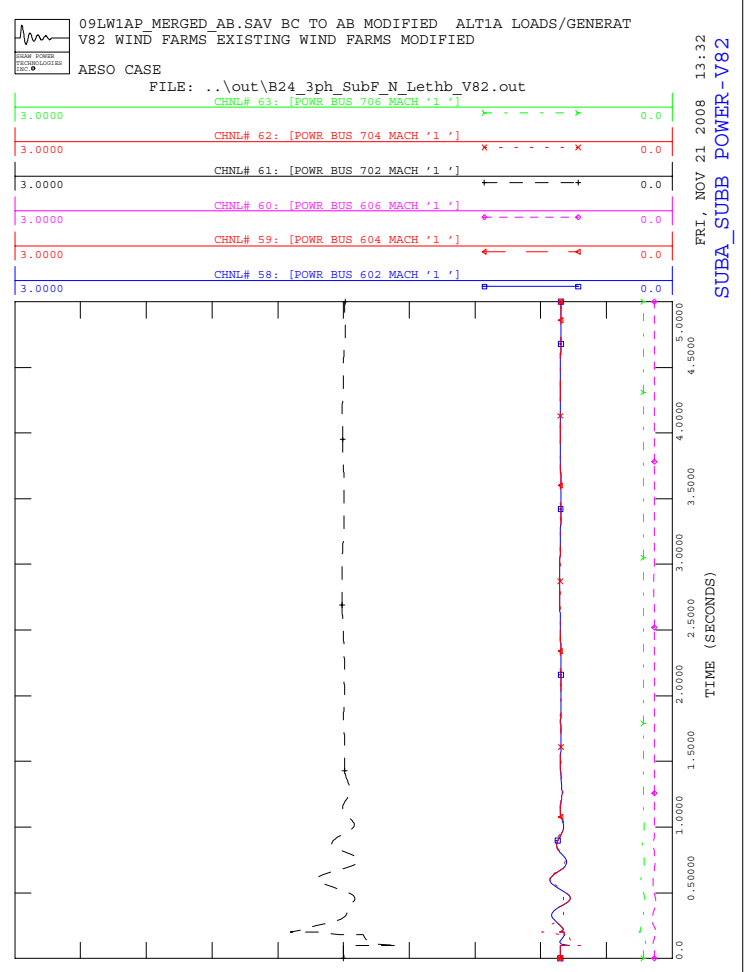
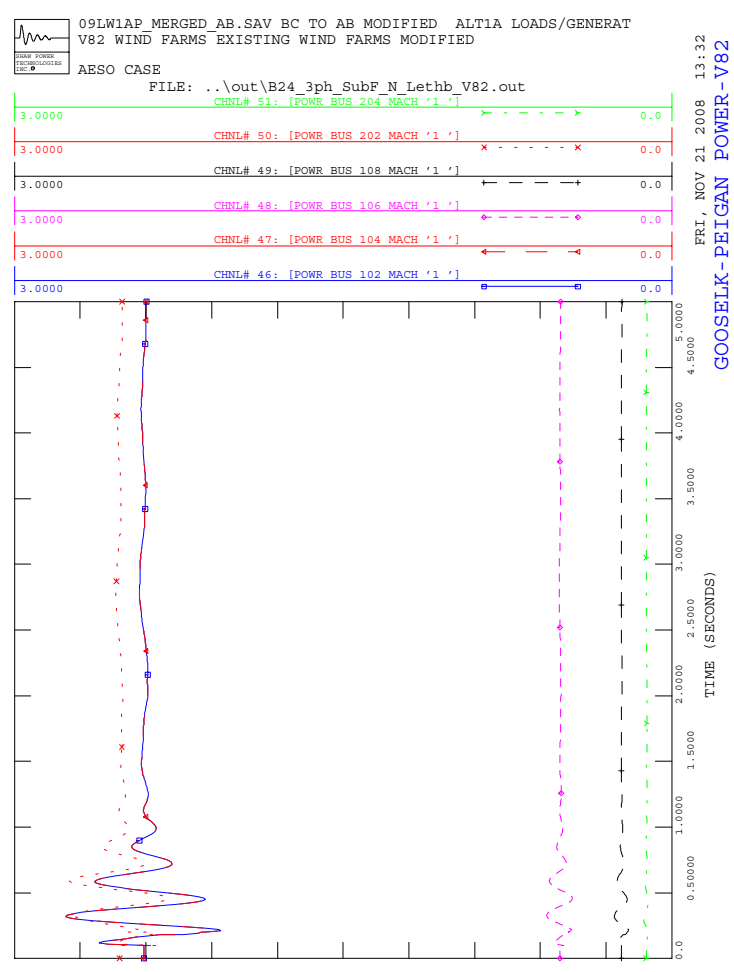
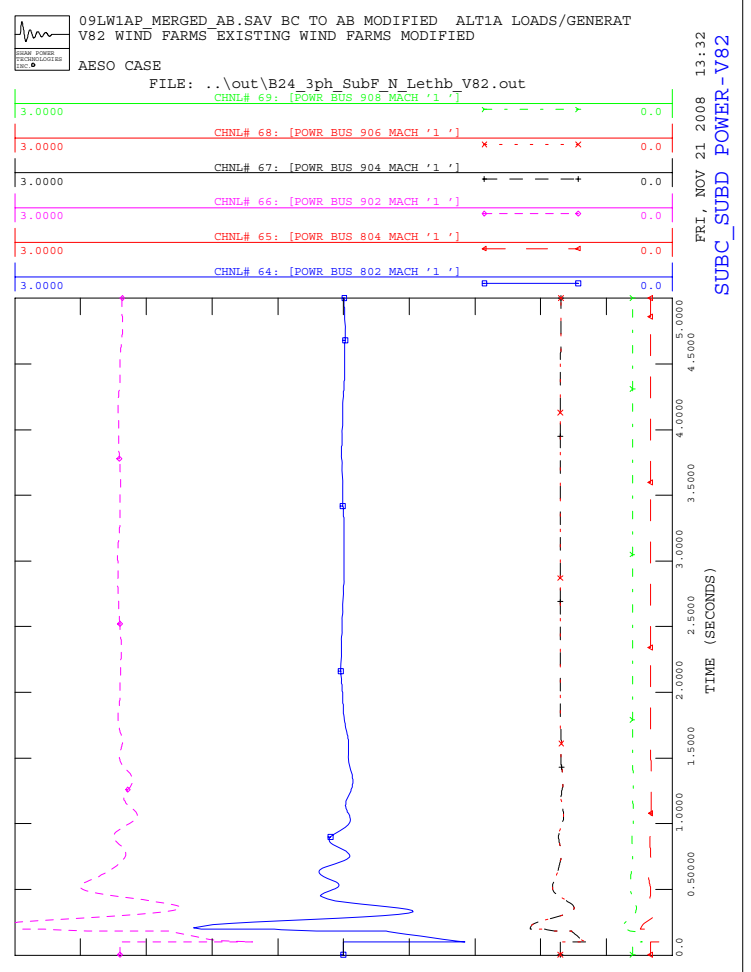
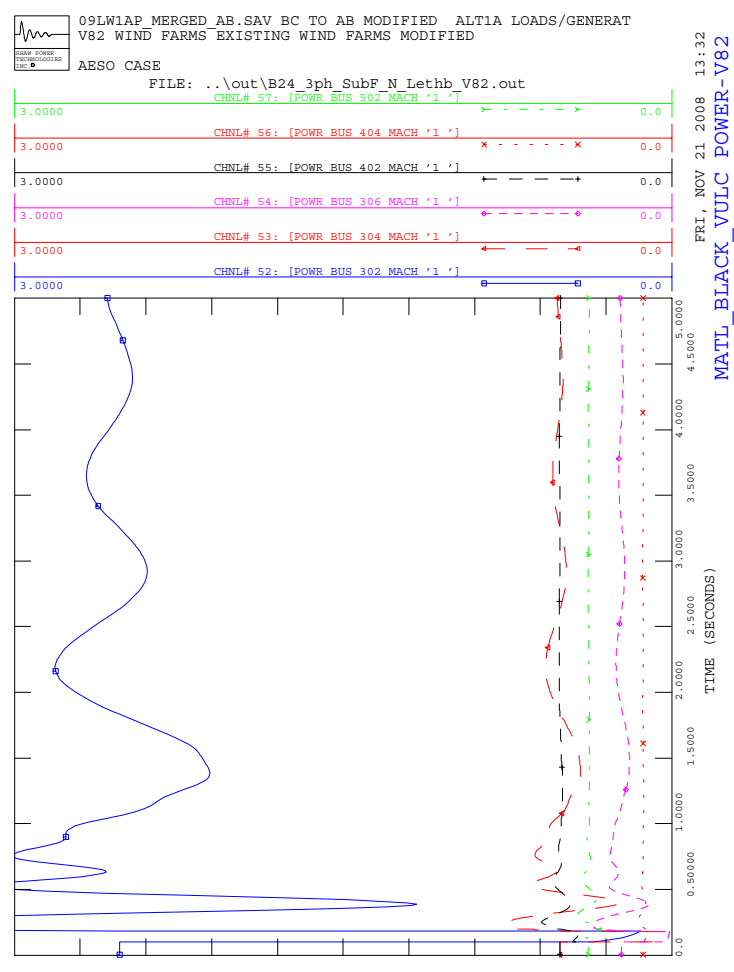
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

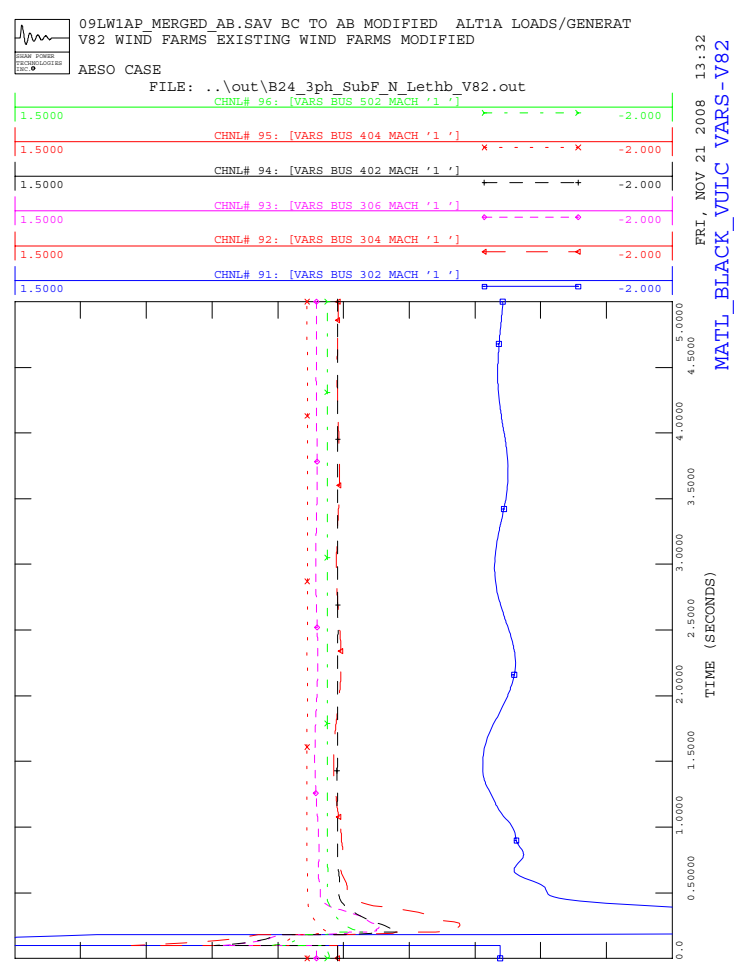
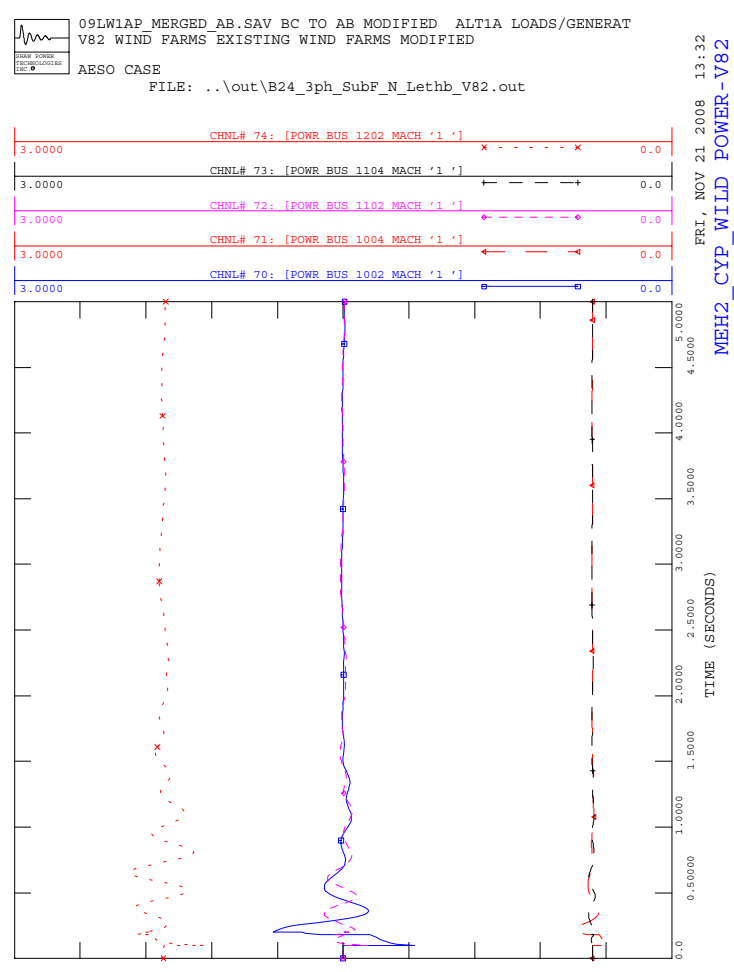
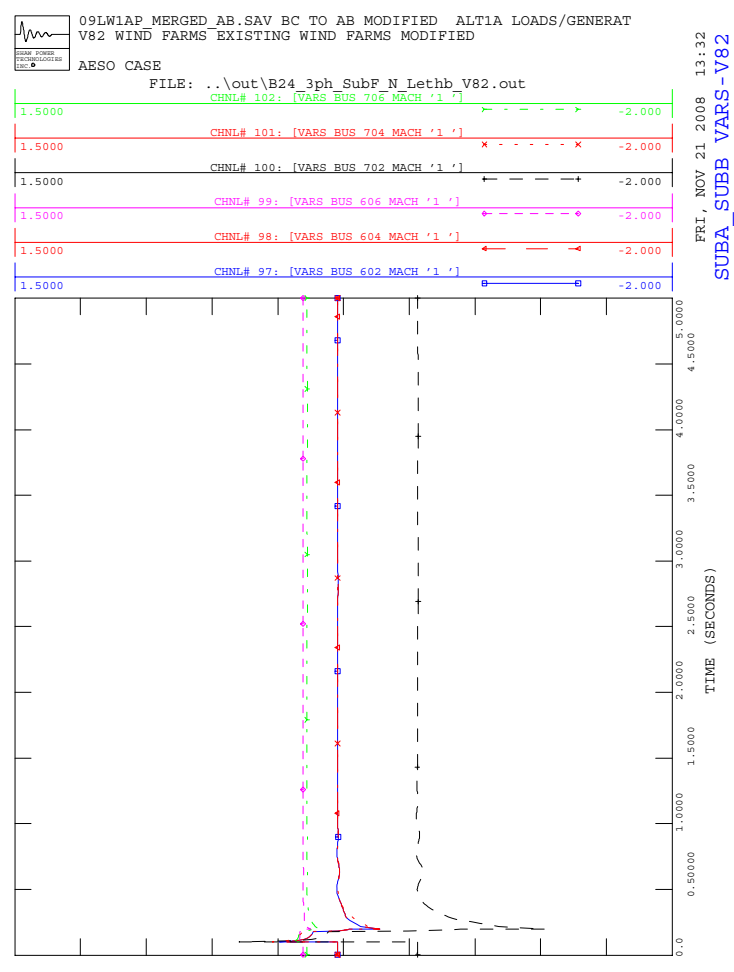
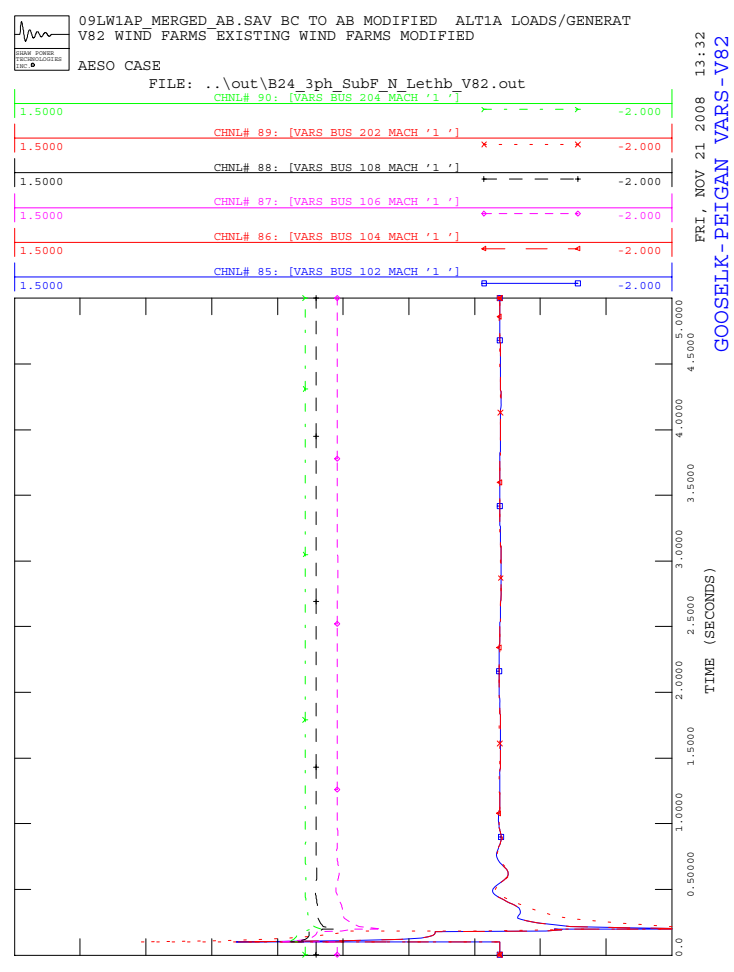
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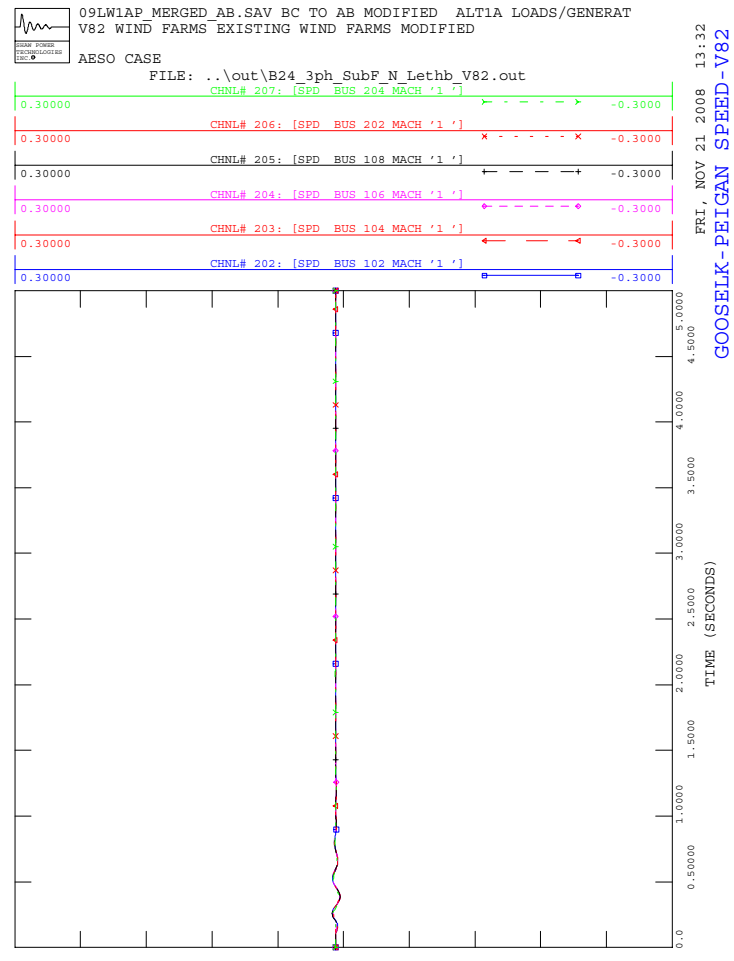
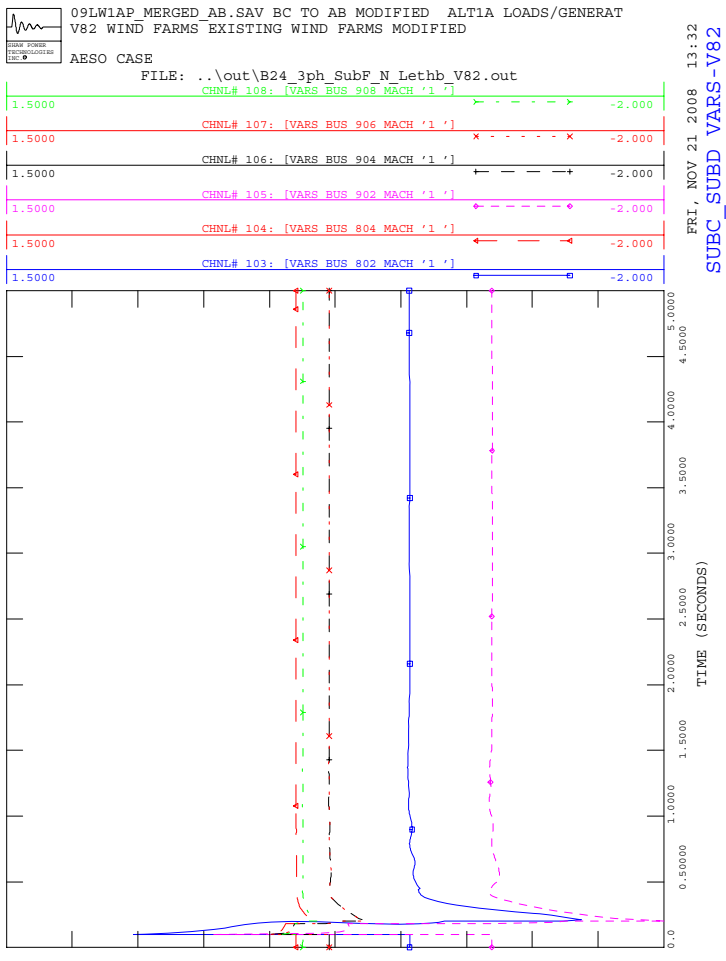
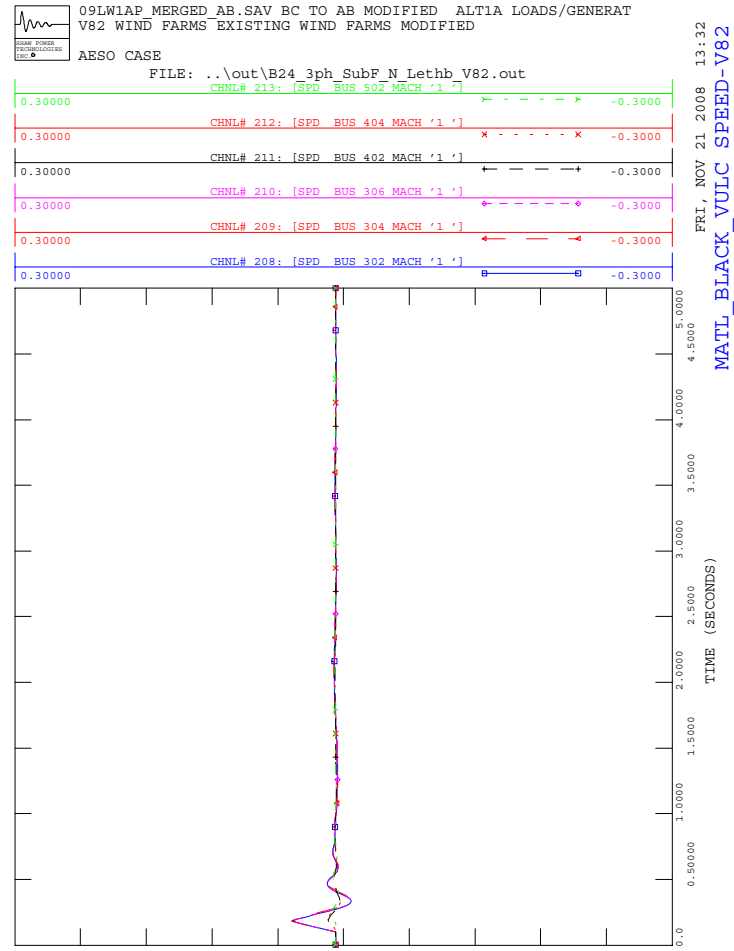
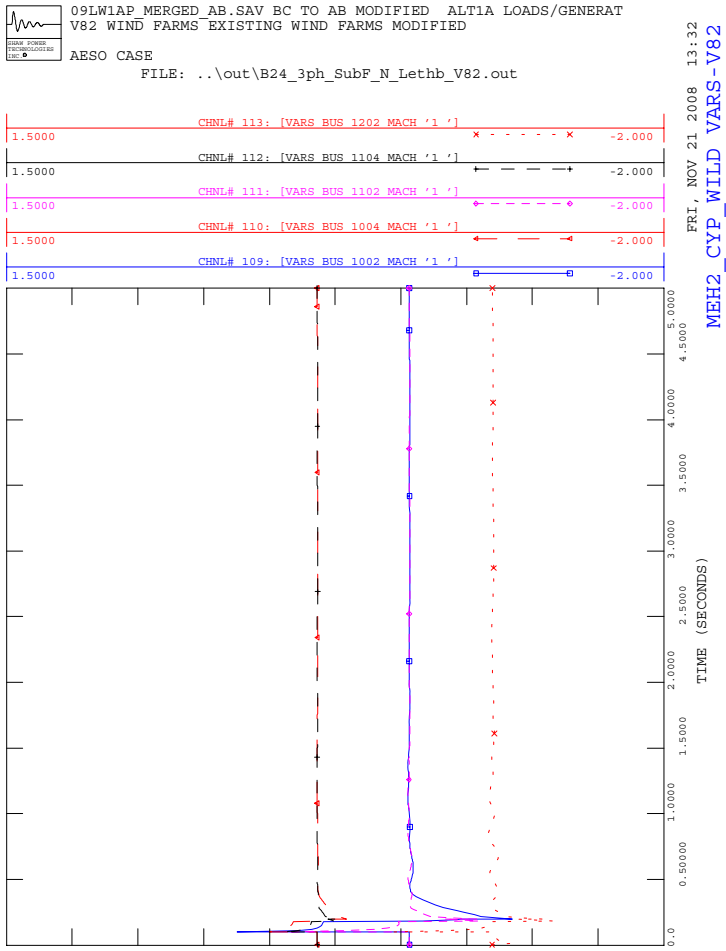
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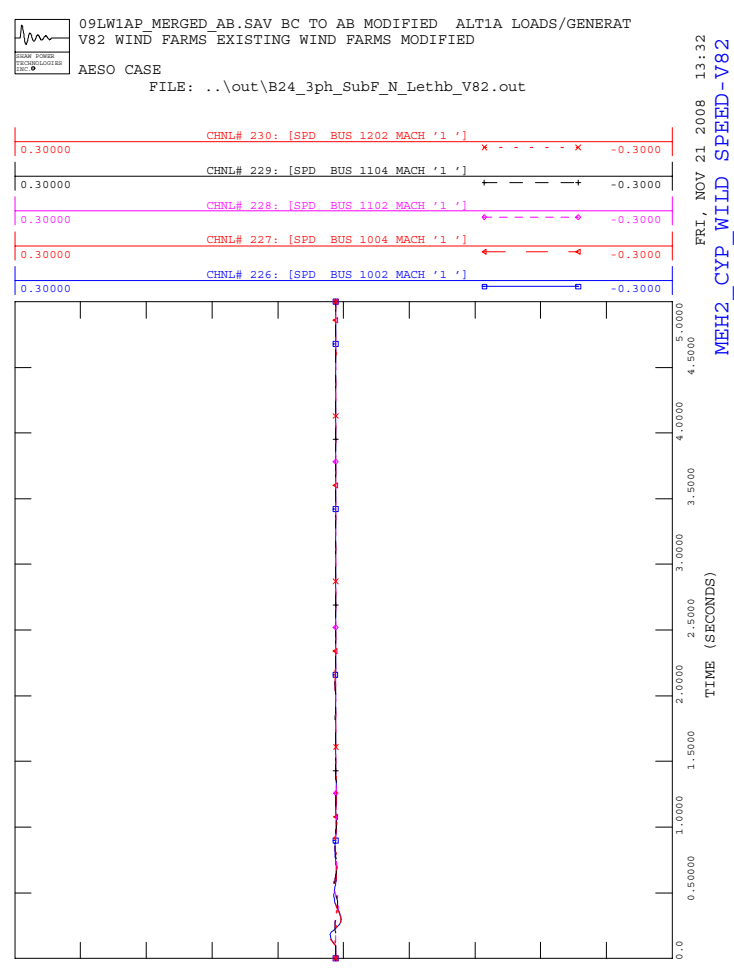
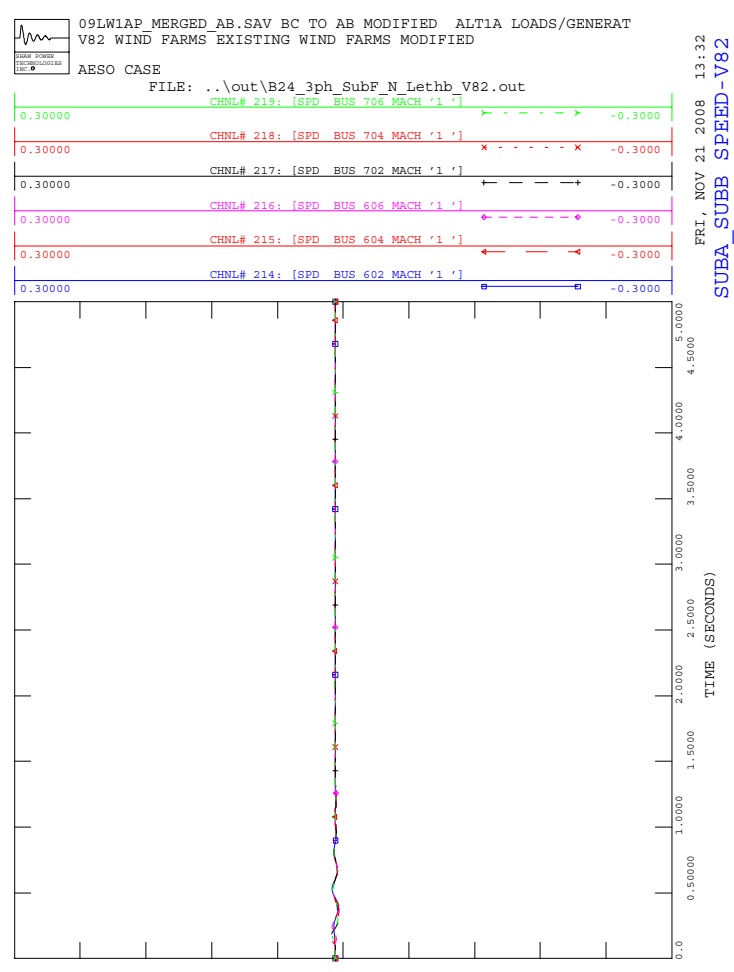
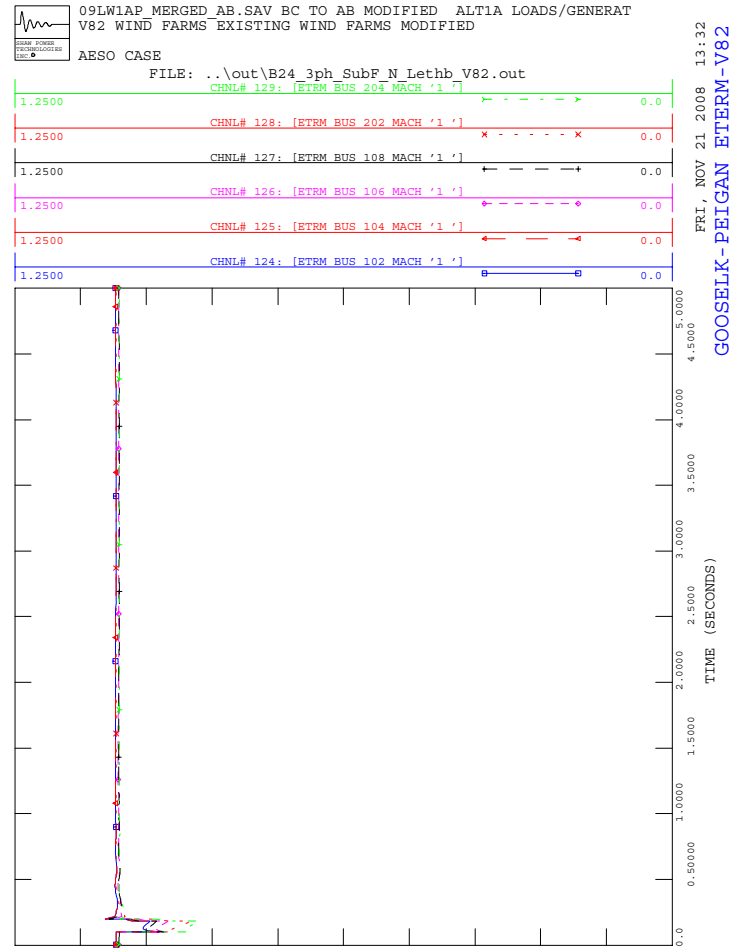
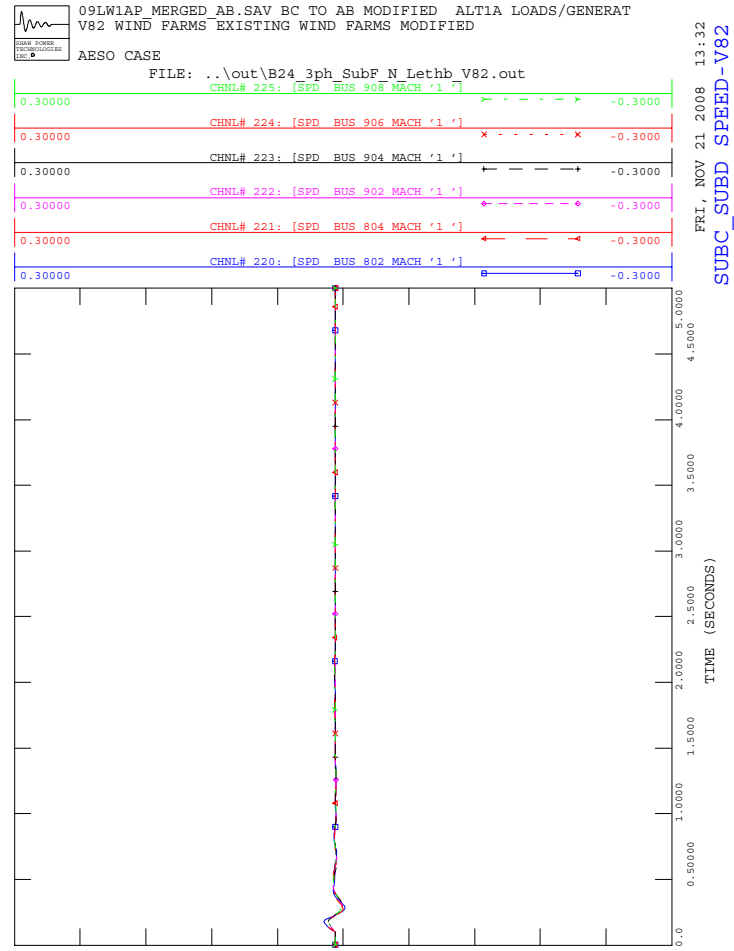
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AB_BC_TIE_FLOWS-V82

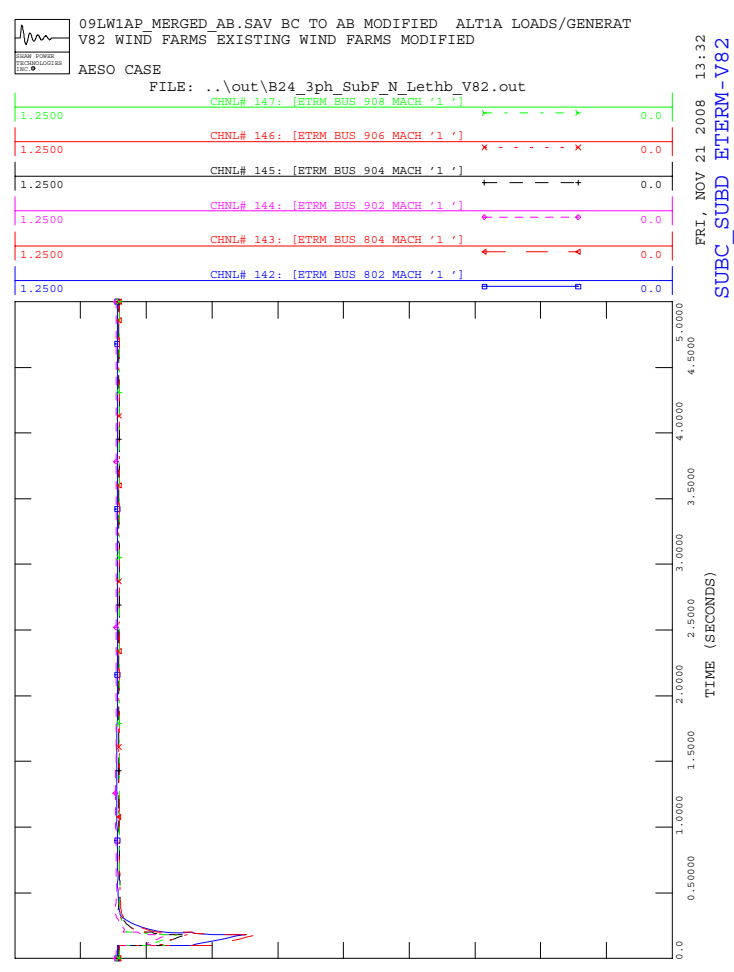
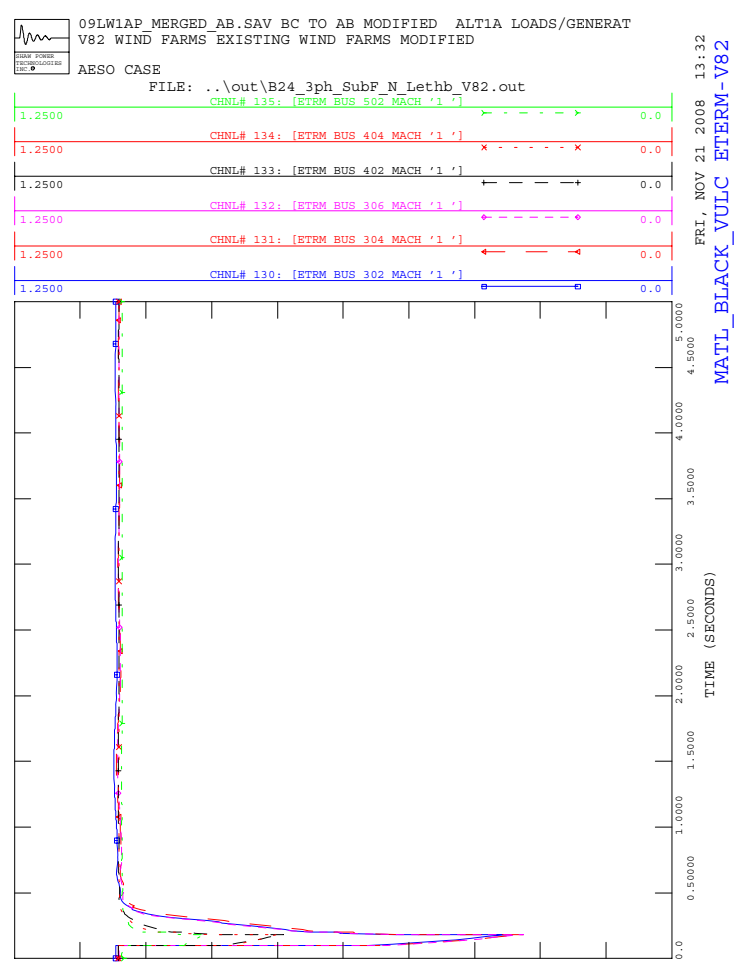
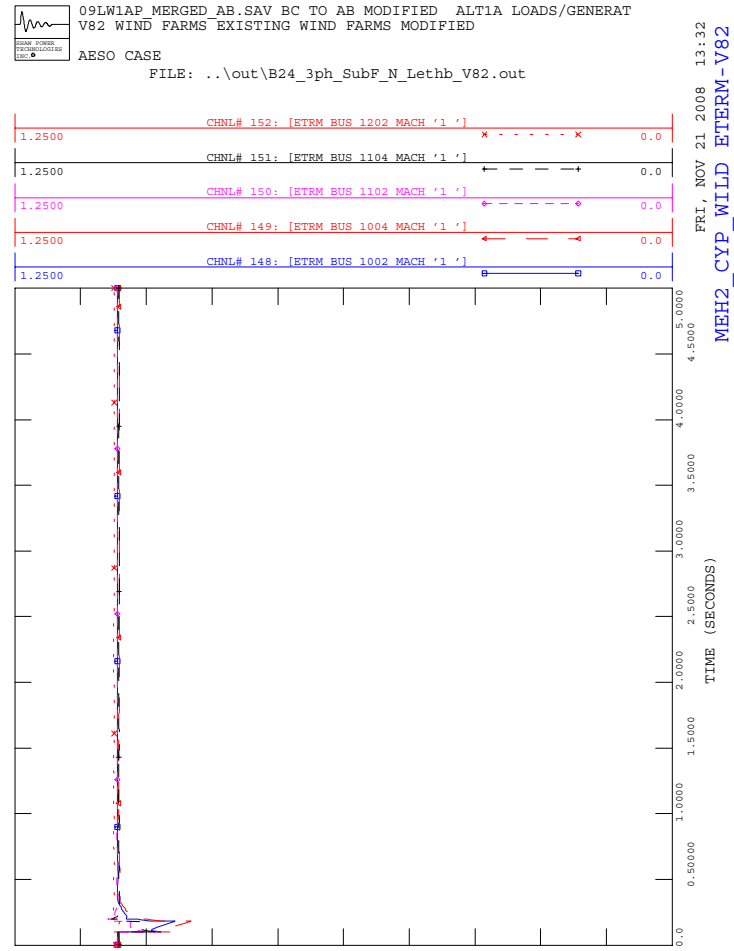
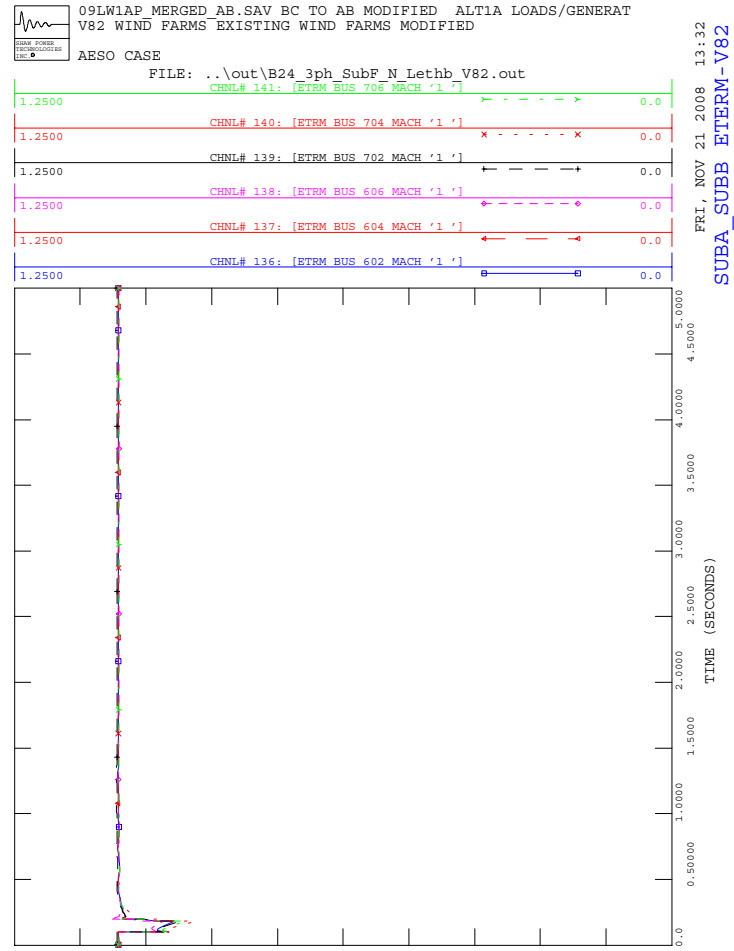


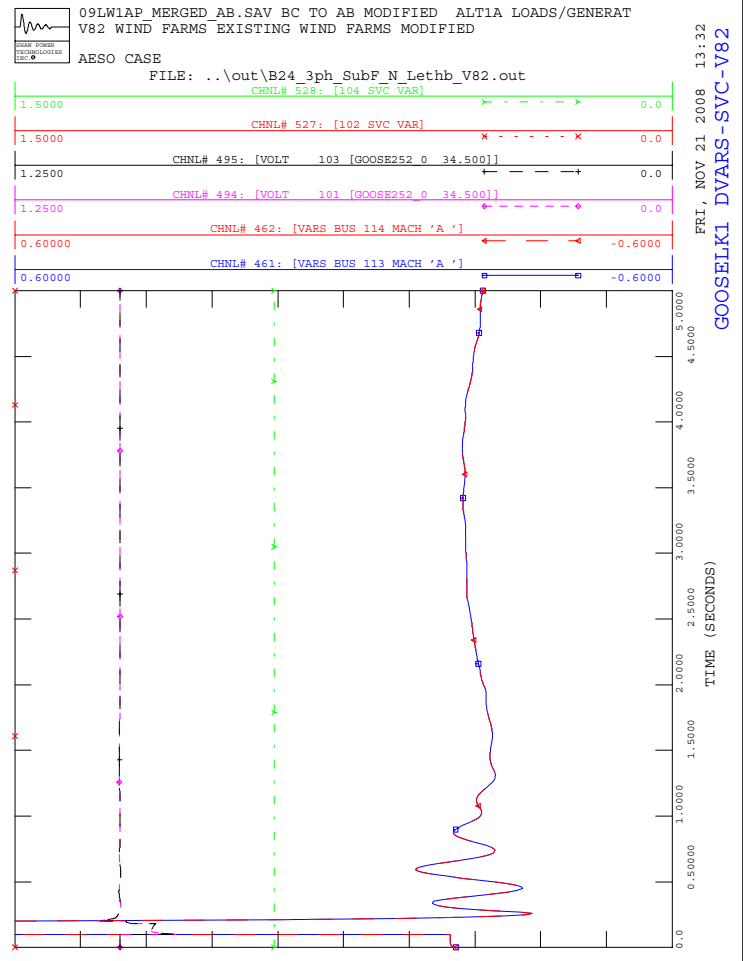
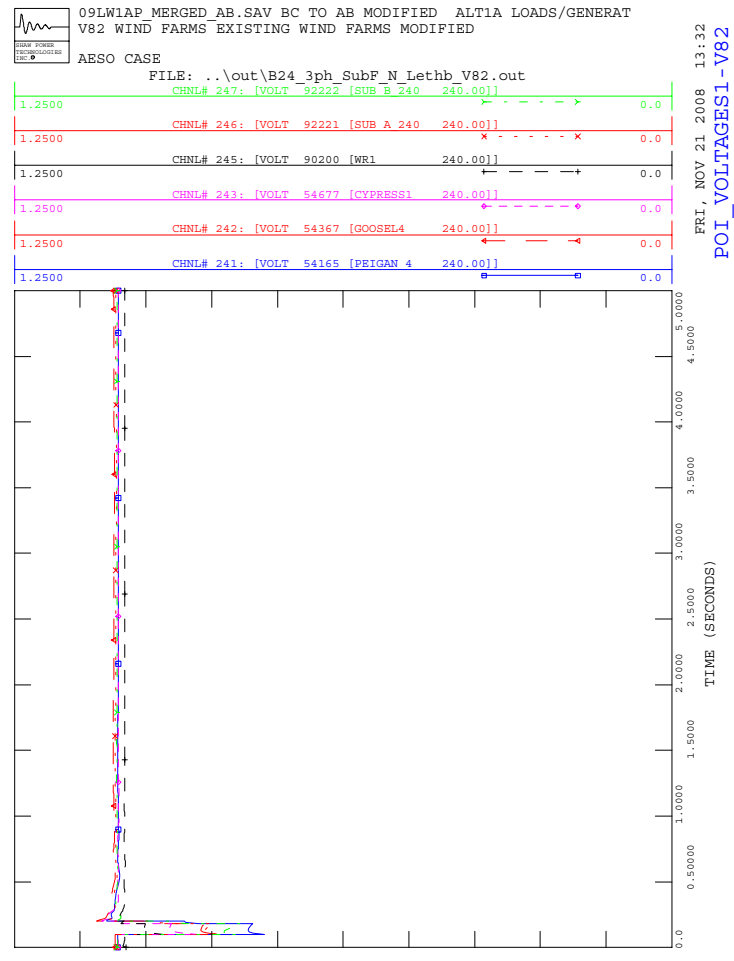
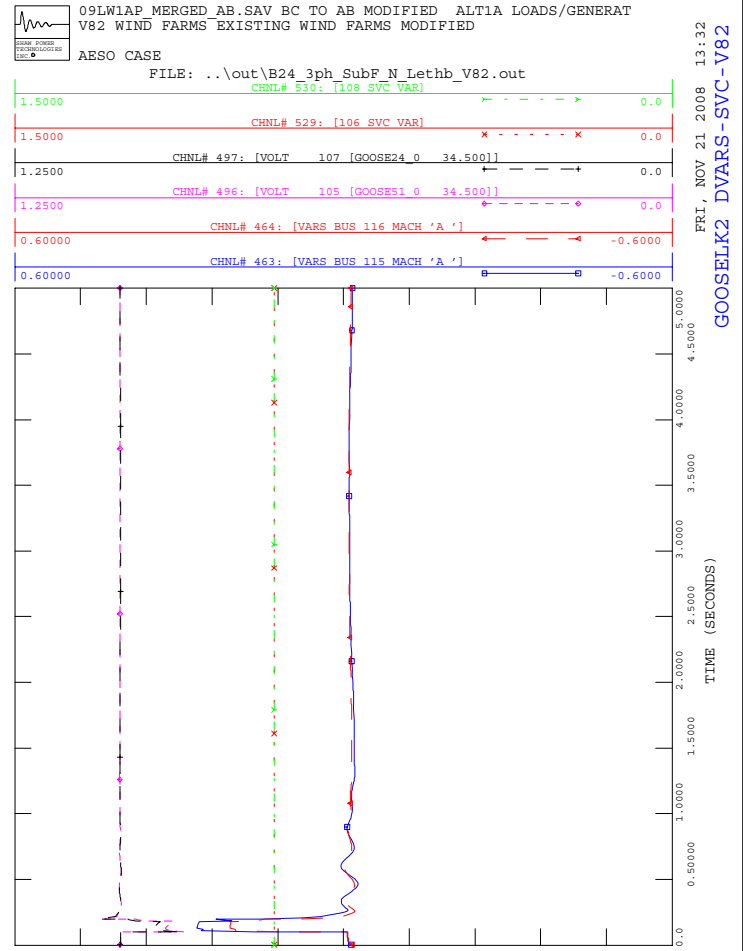
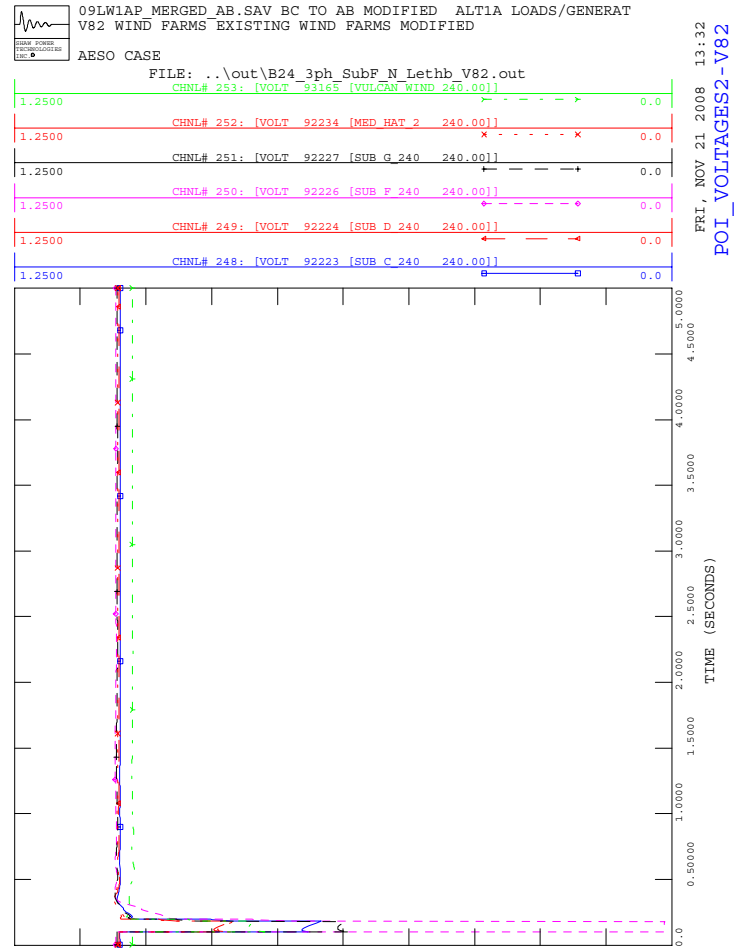


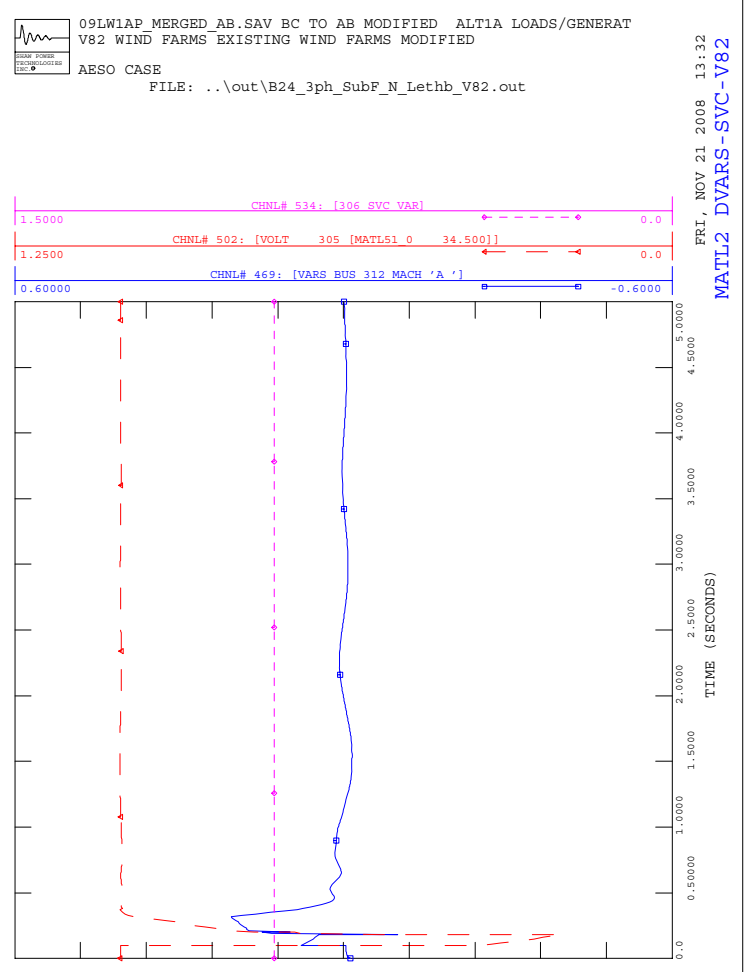
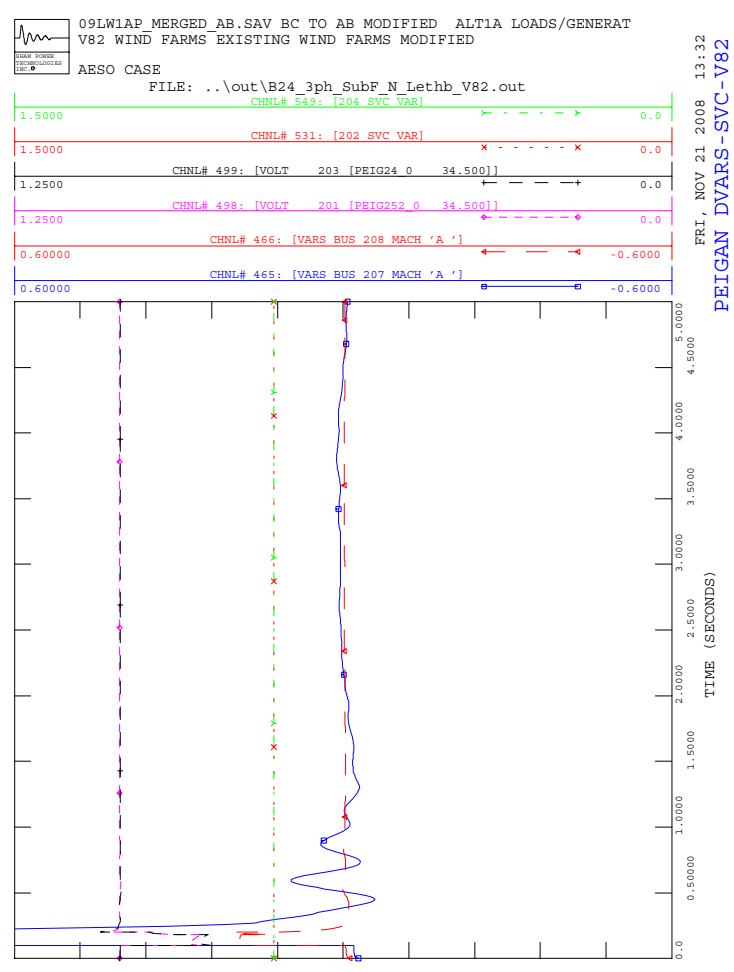
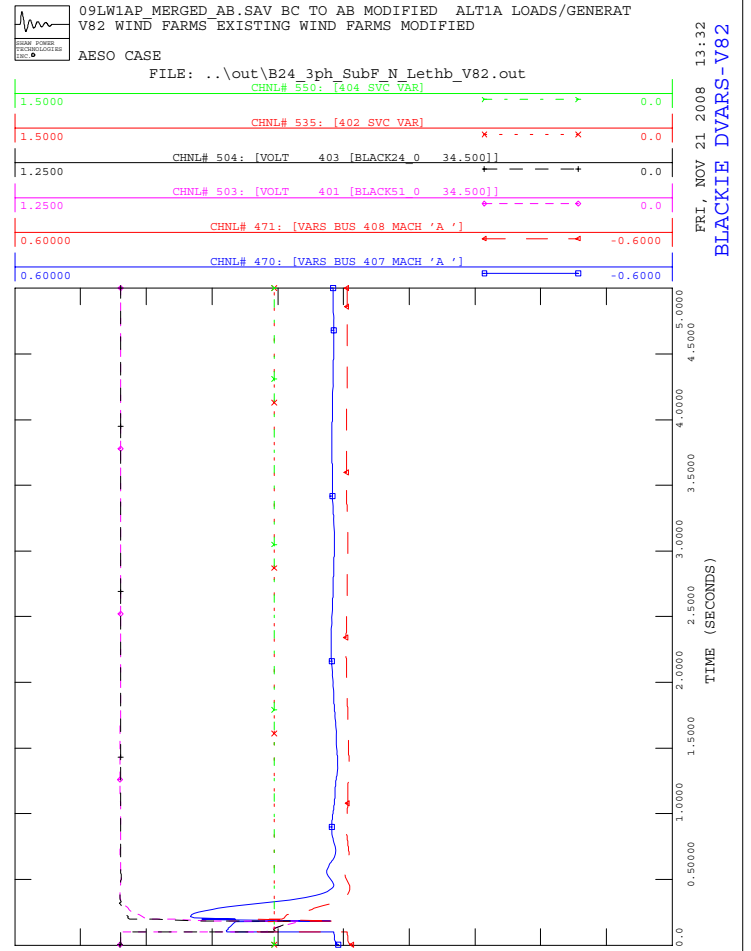
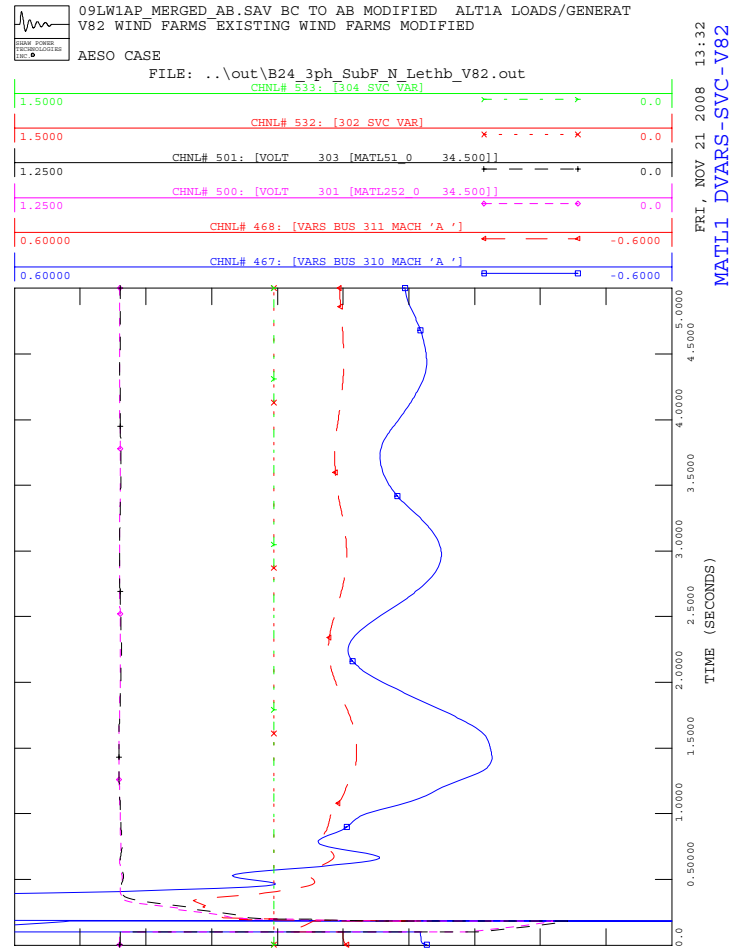


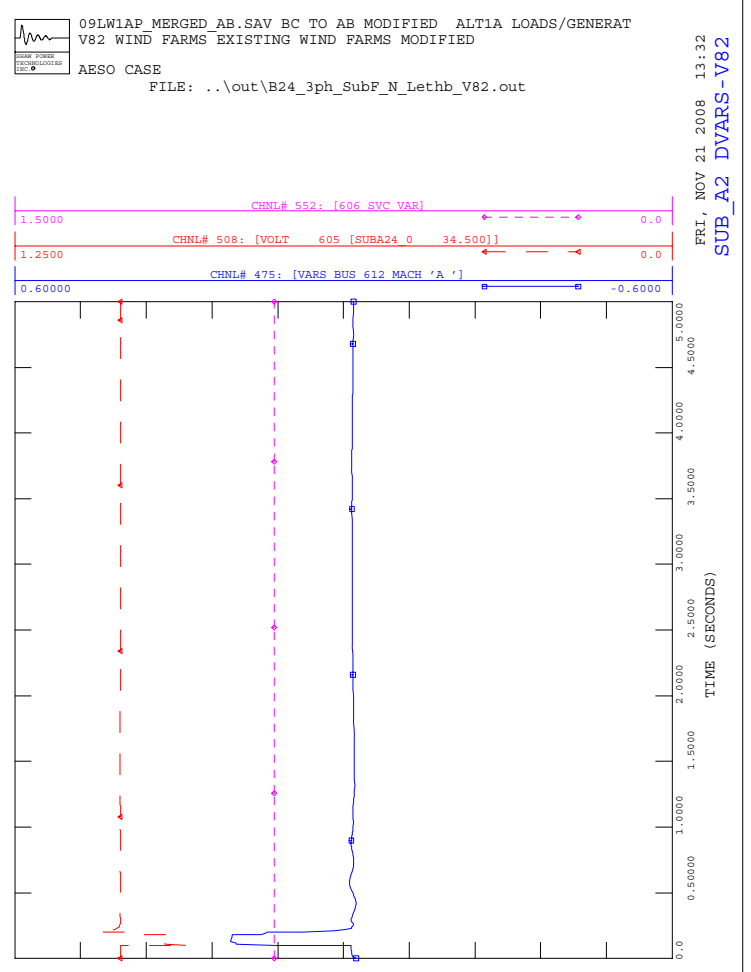
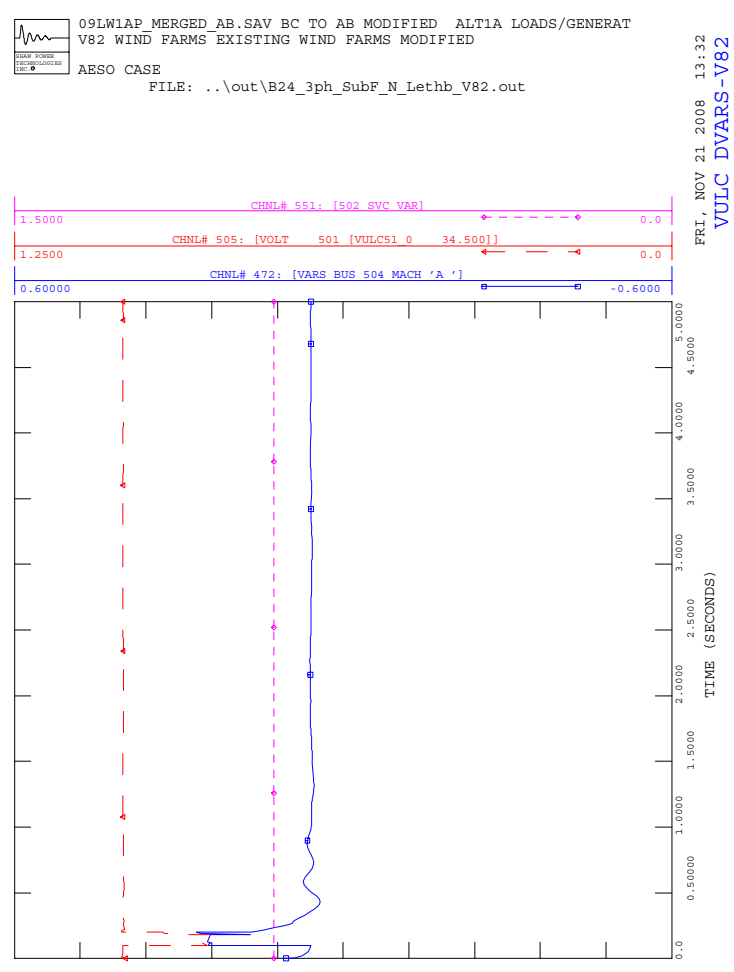
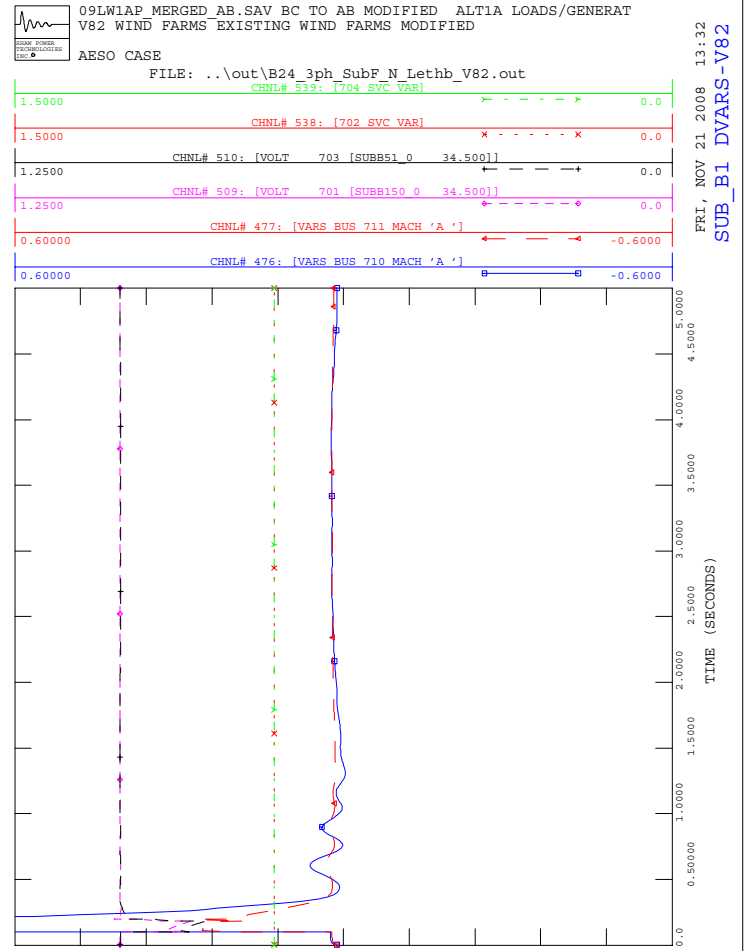
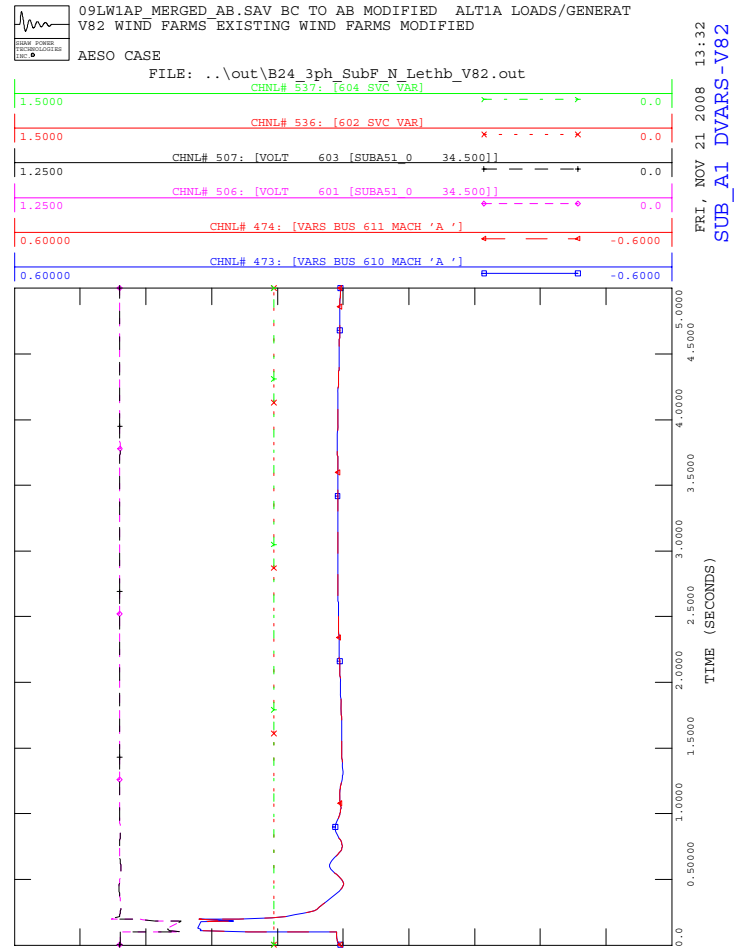


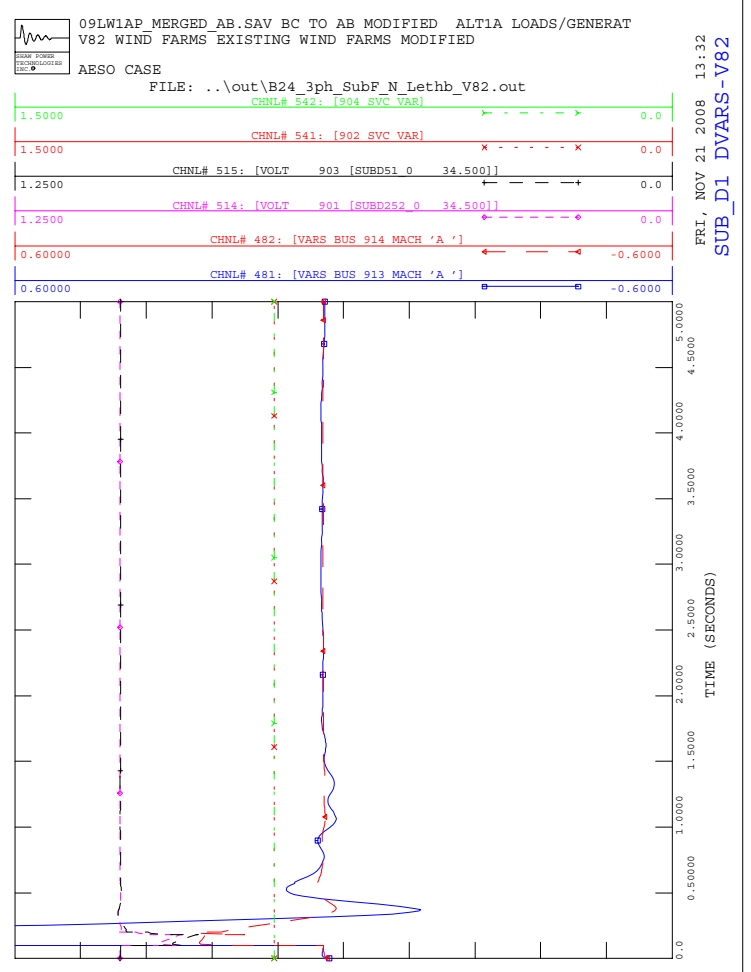
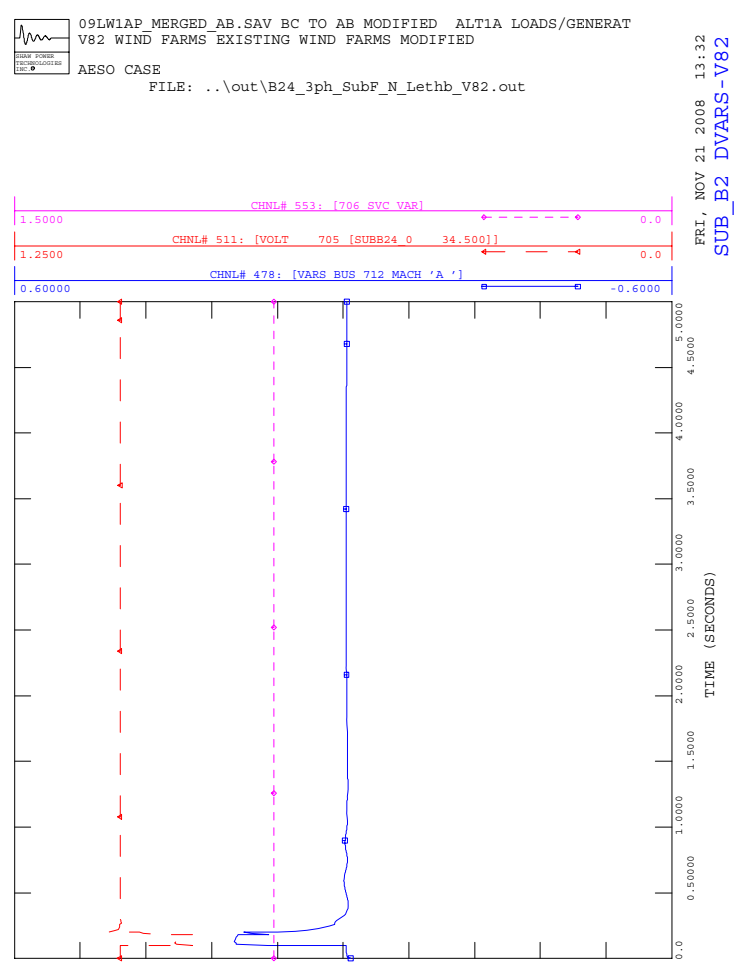
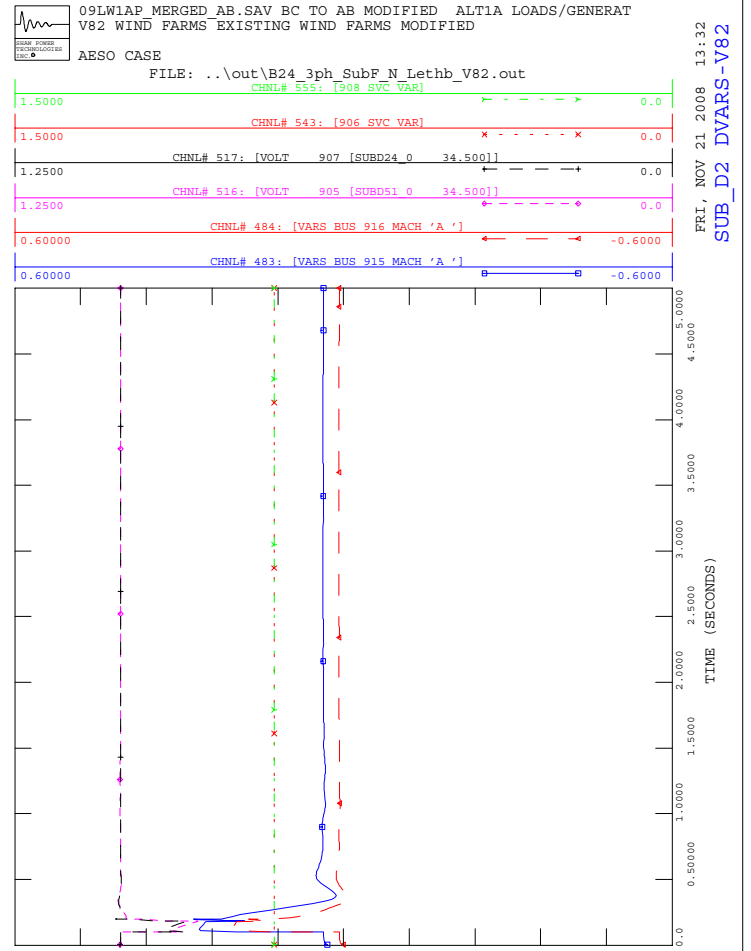
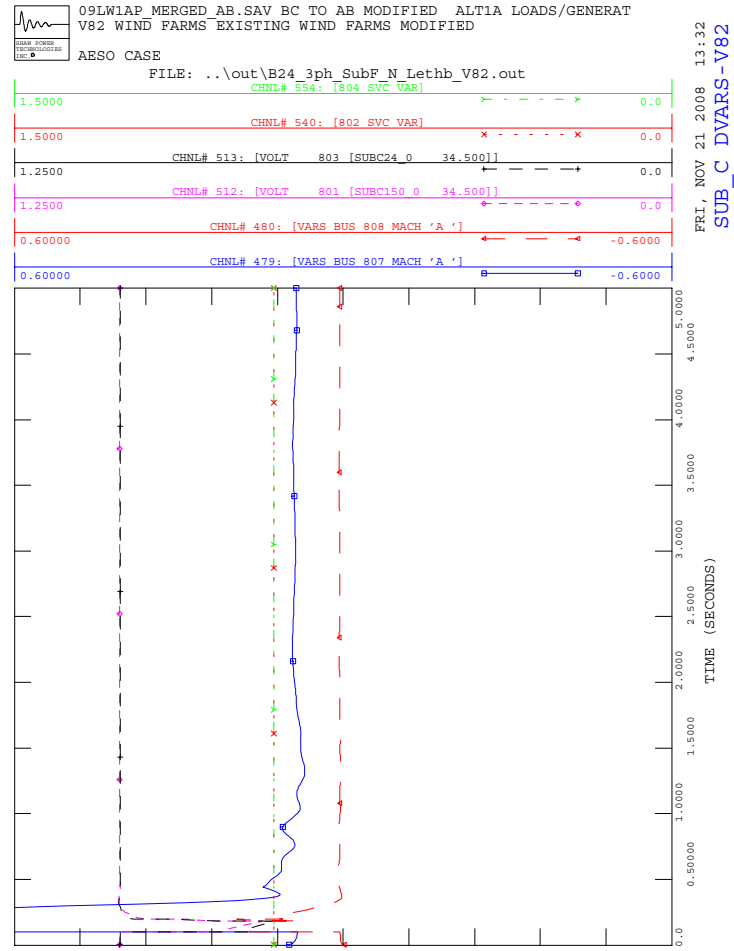


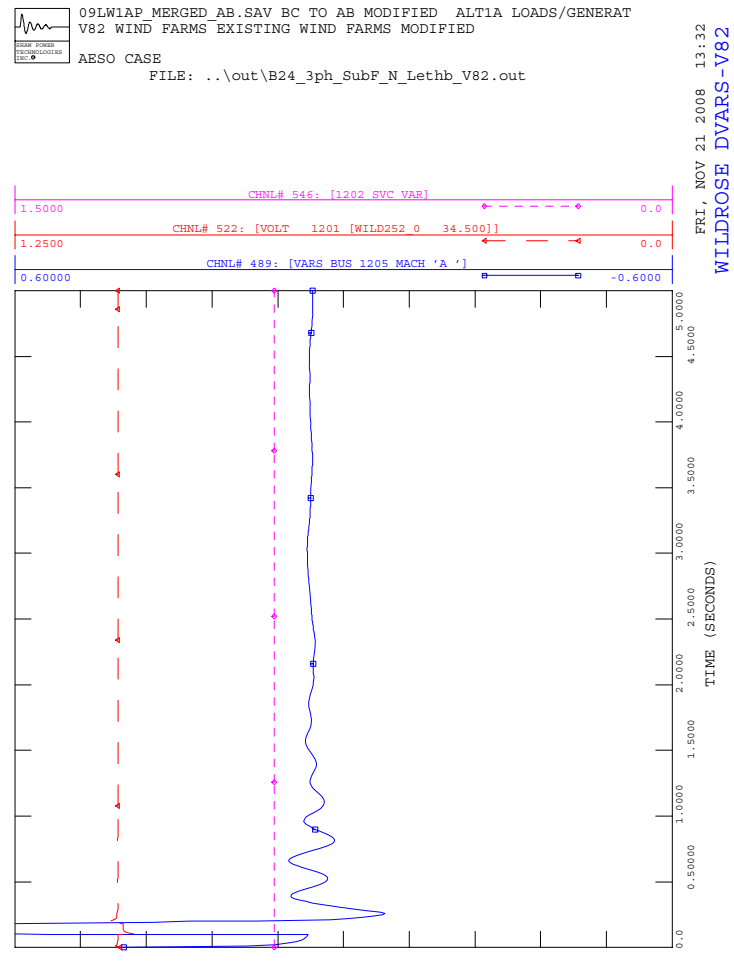
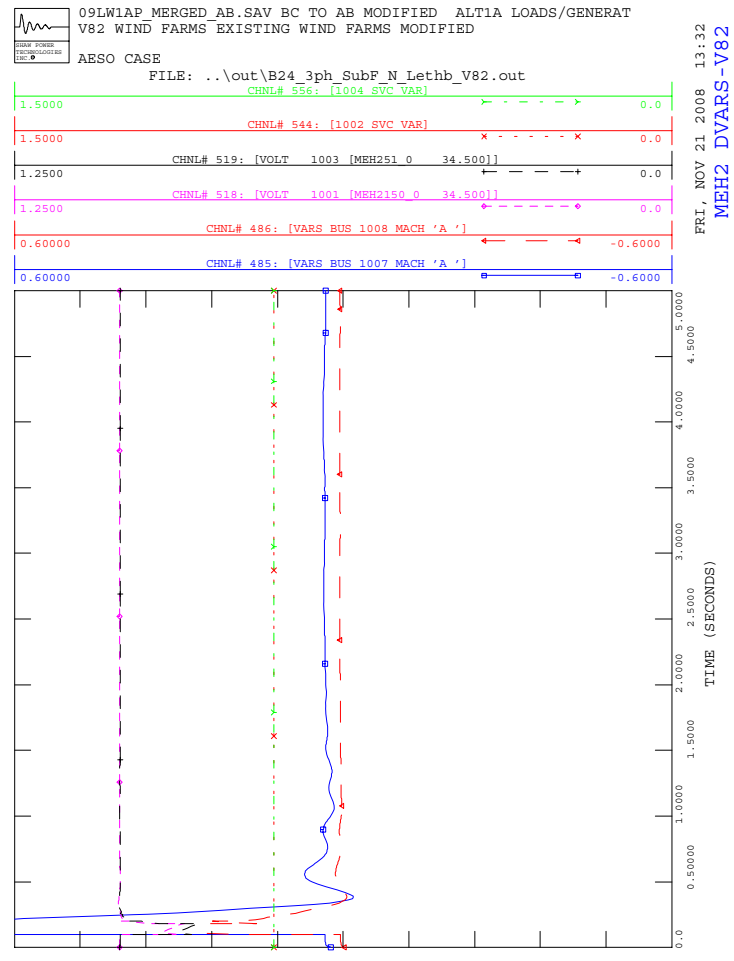
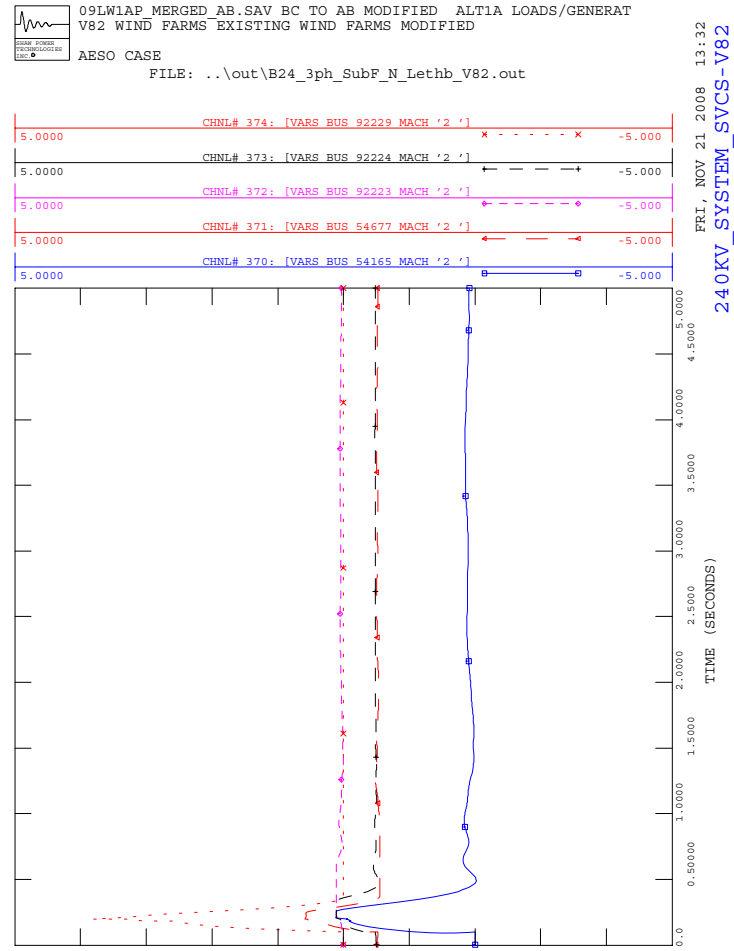
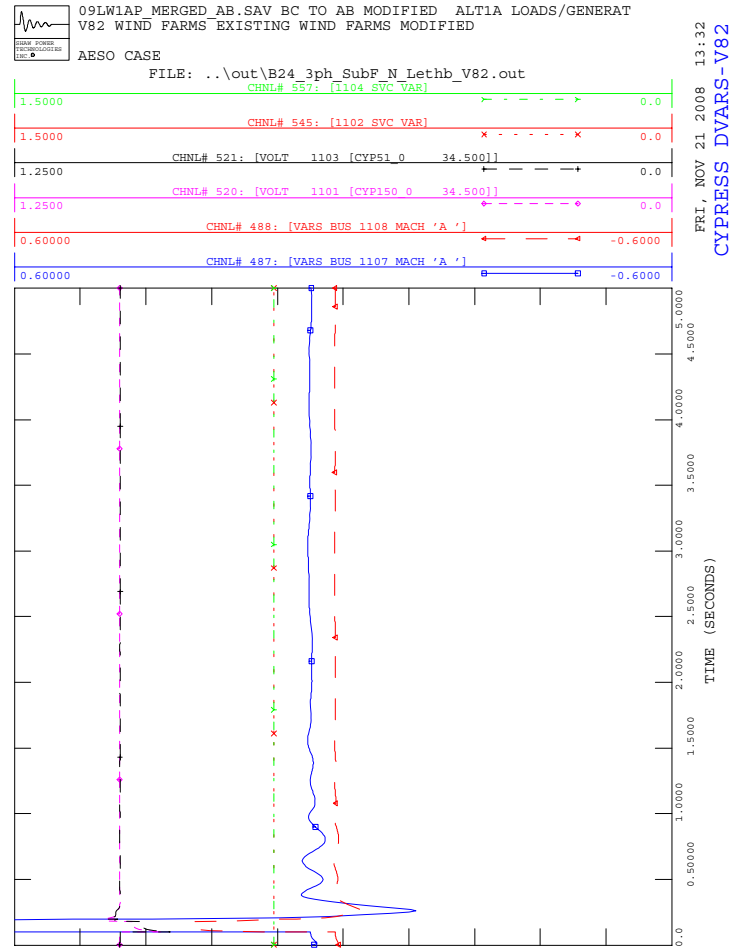








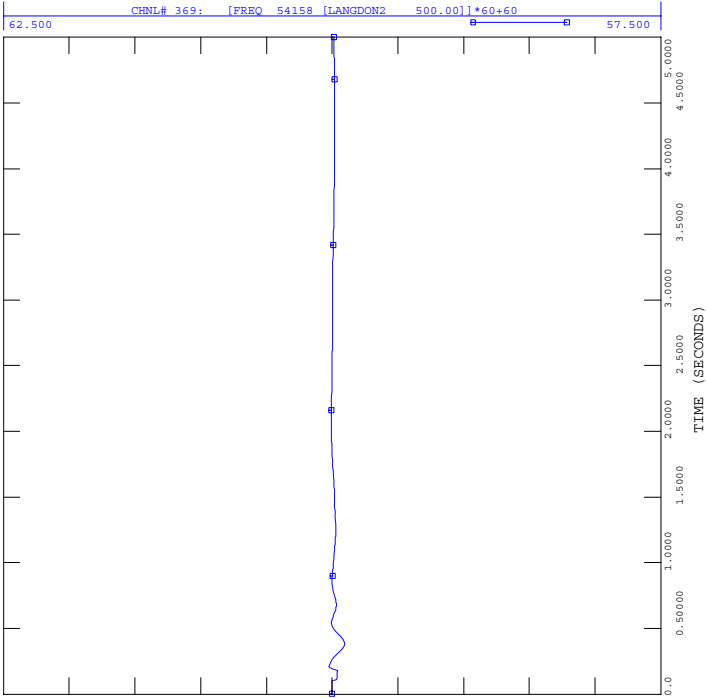






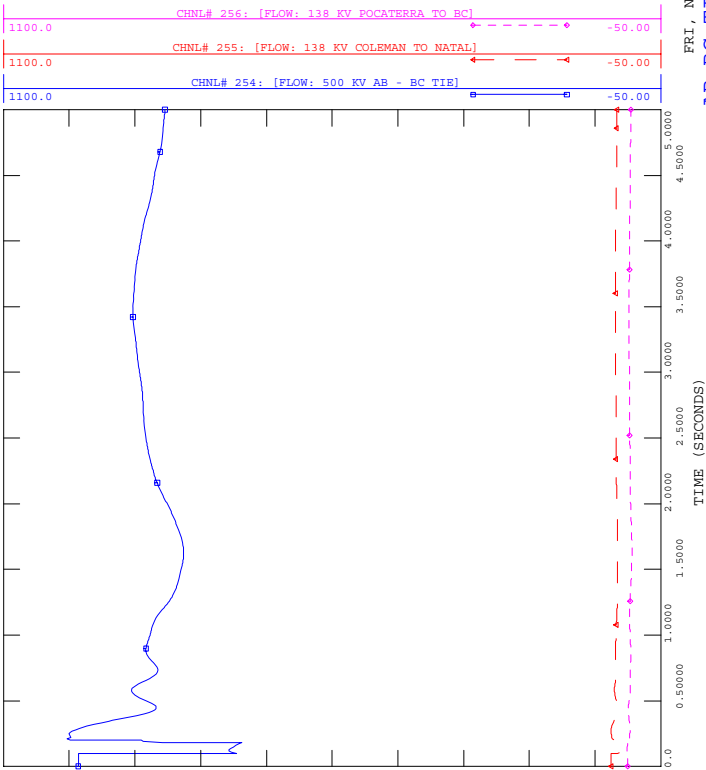
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B24_3ph_SubF_N_Lethb_V82.out

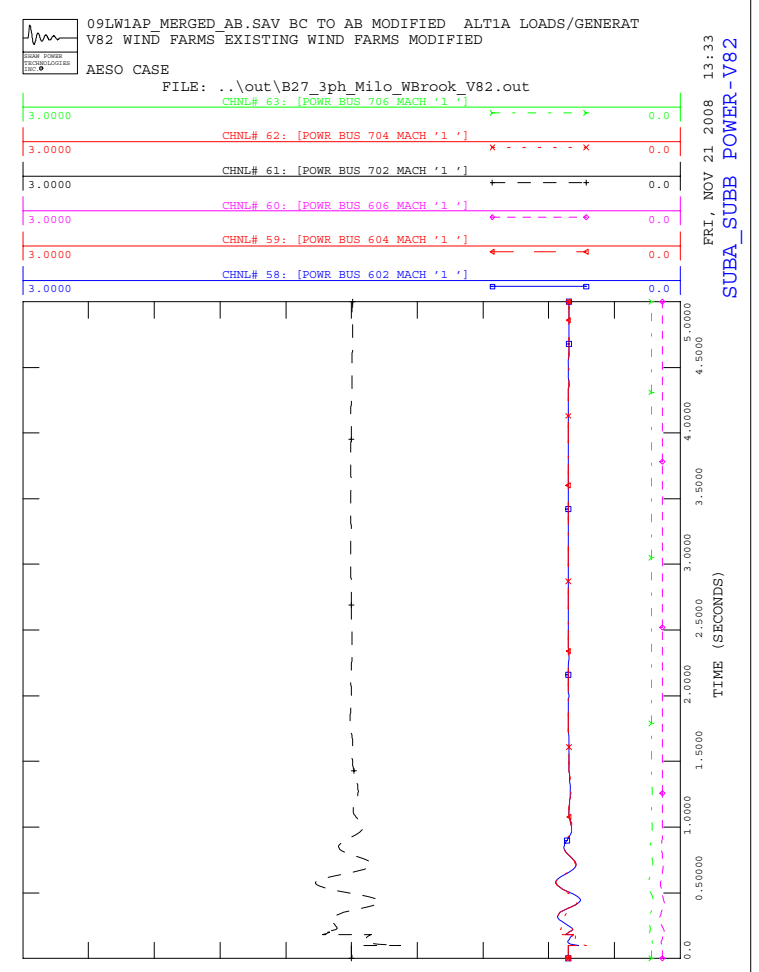
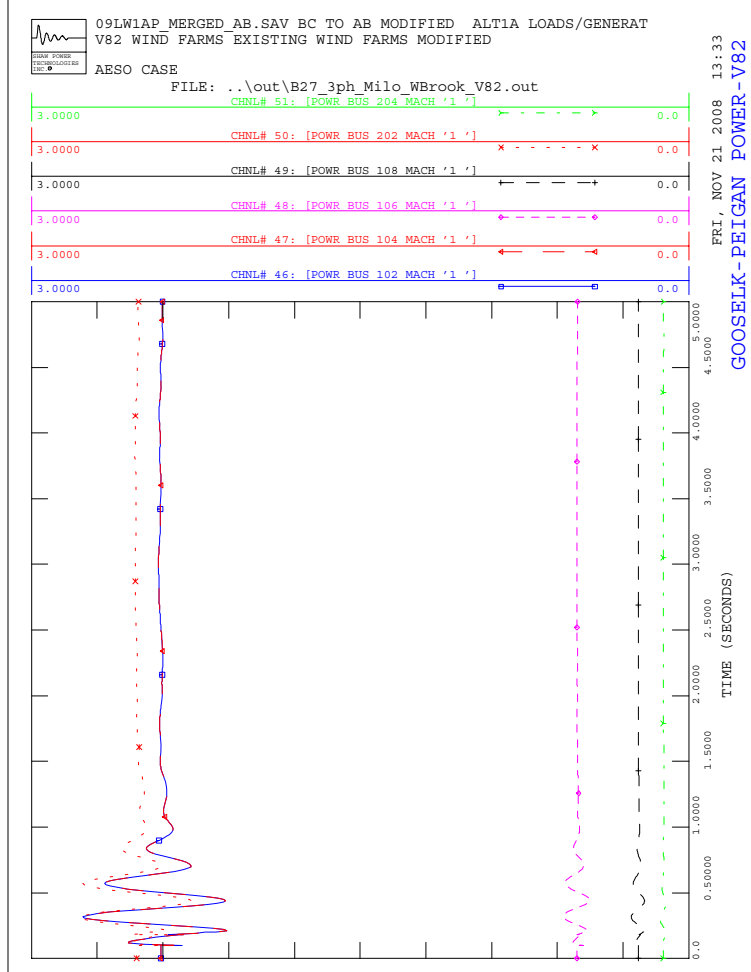
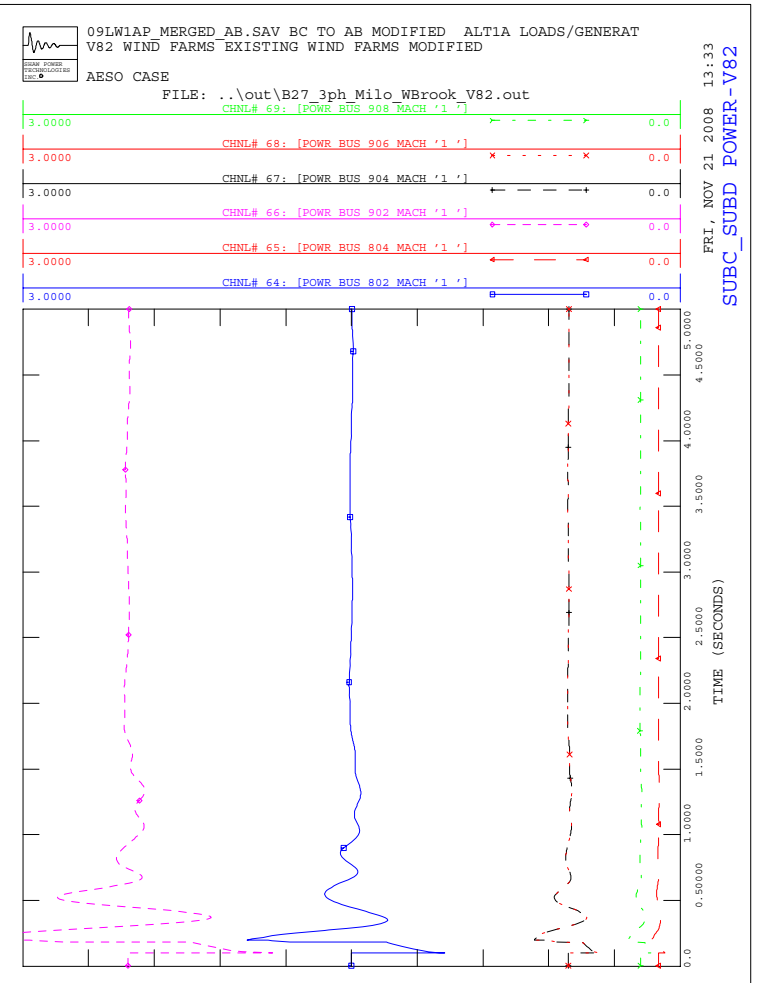
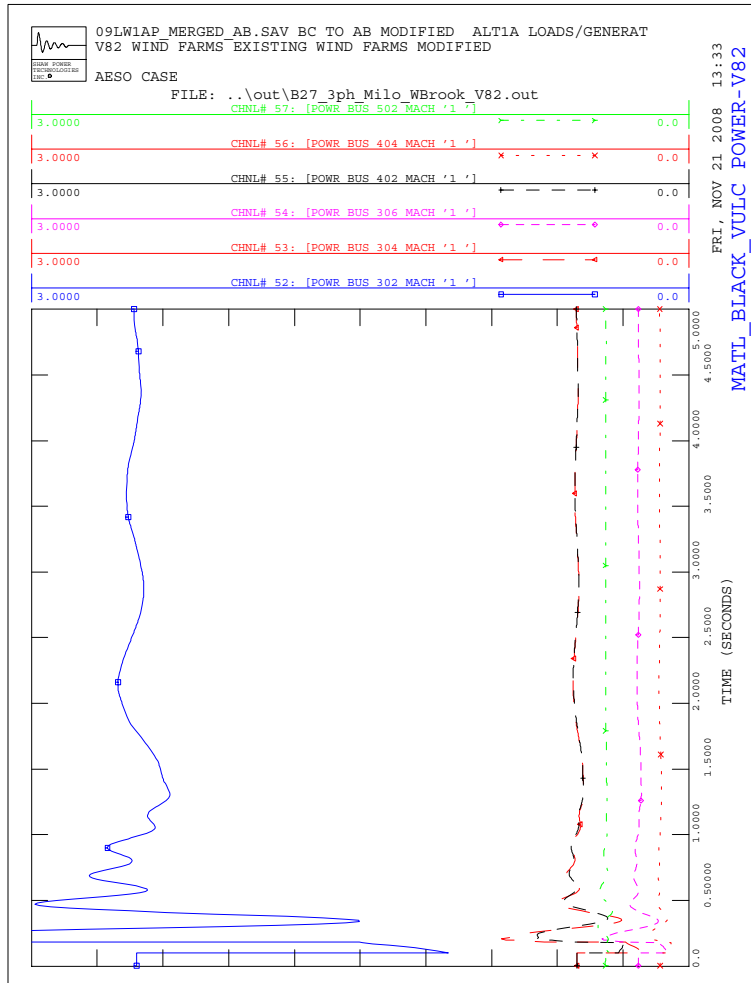
FRI, NOV 21 2008 13:32
LANGDON_FRQ-V82

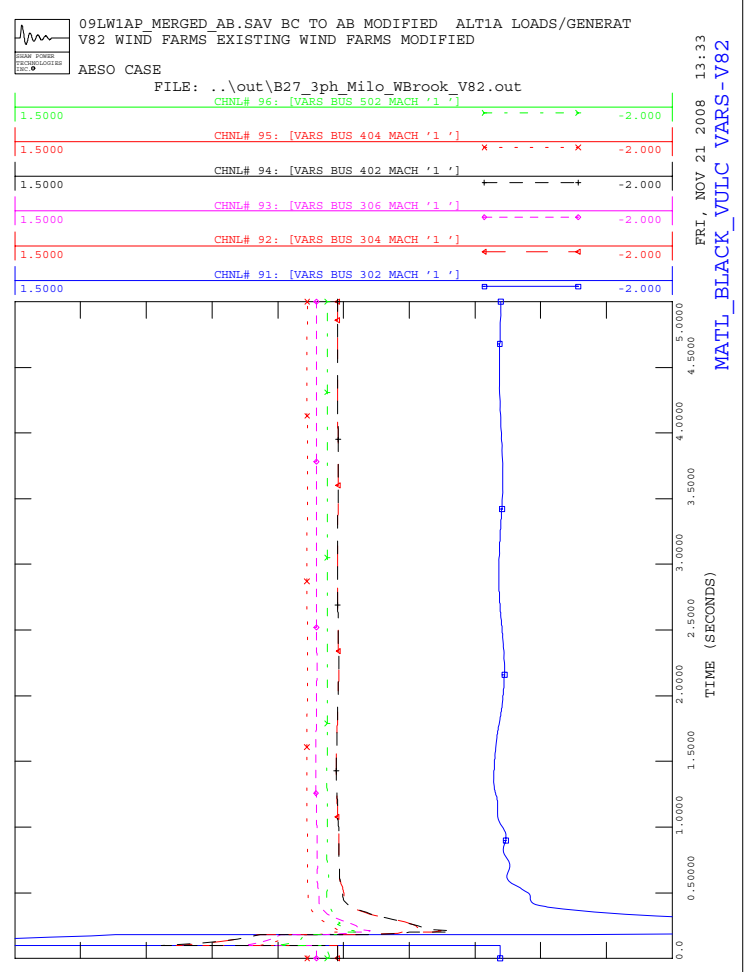
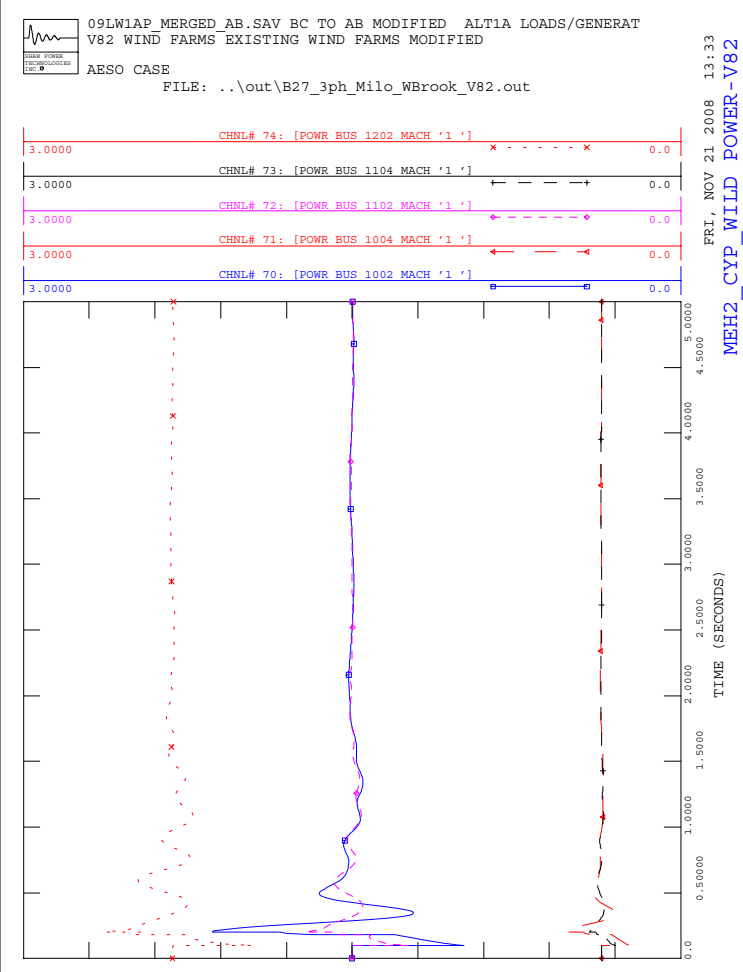
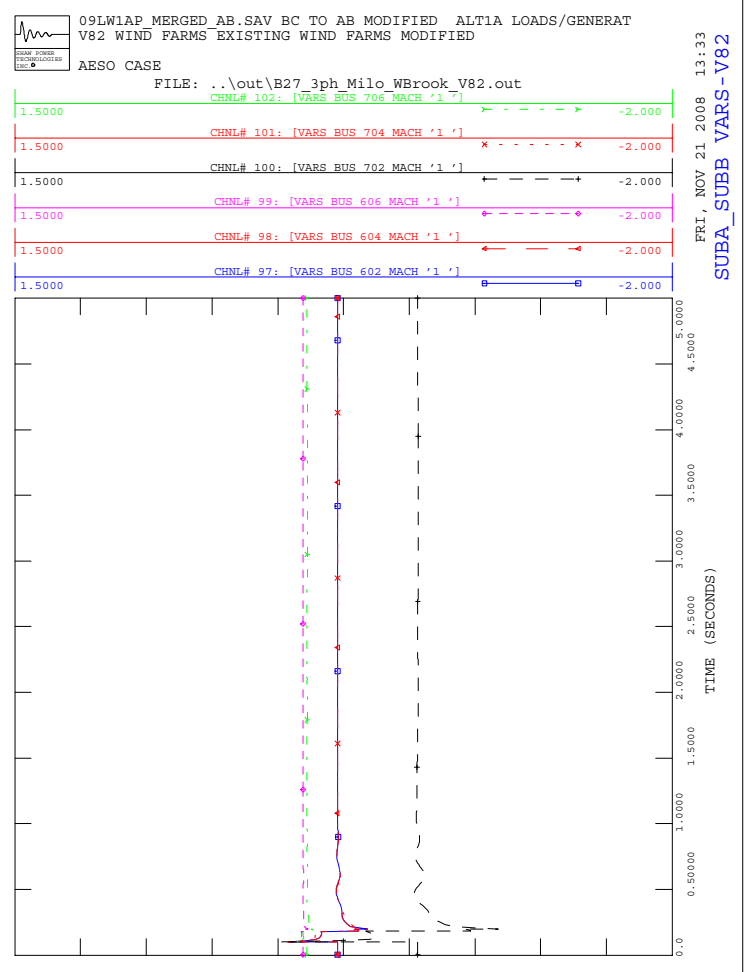
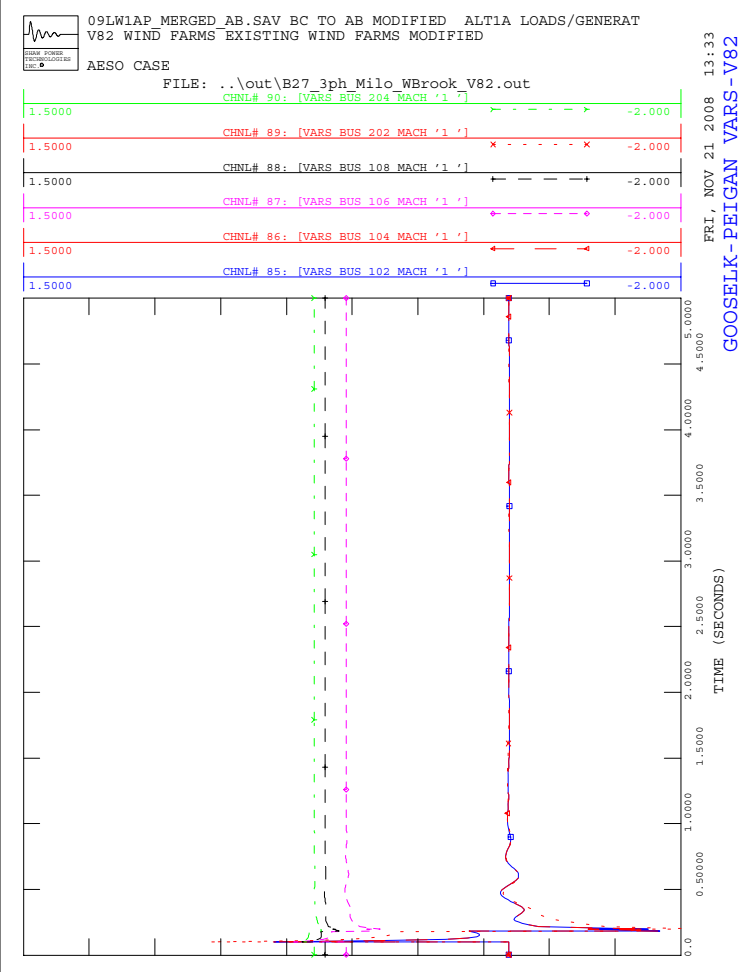


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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AB_BC_TIE_FLOWS-V82

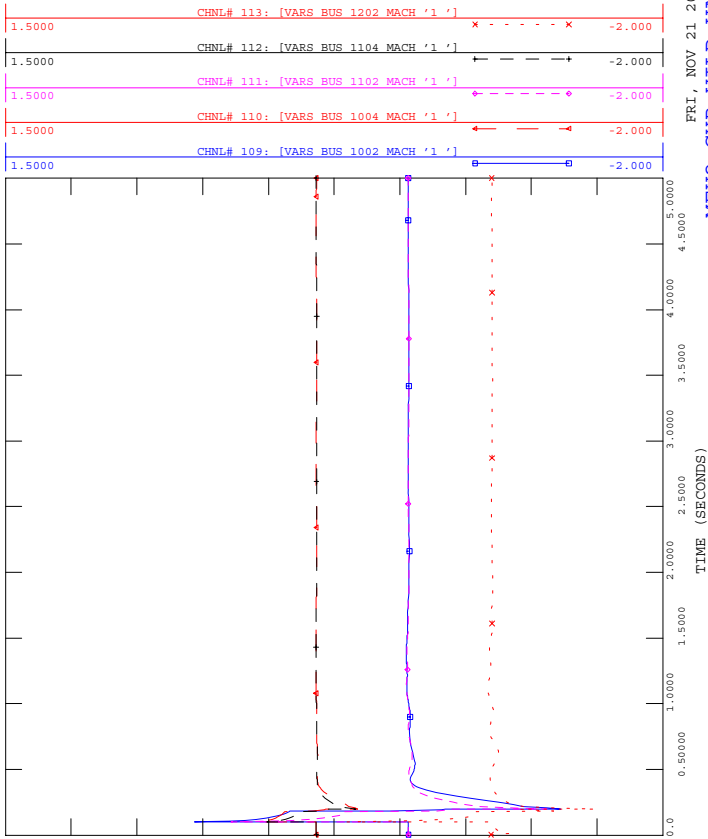






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ABSO CASE

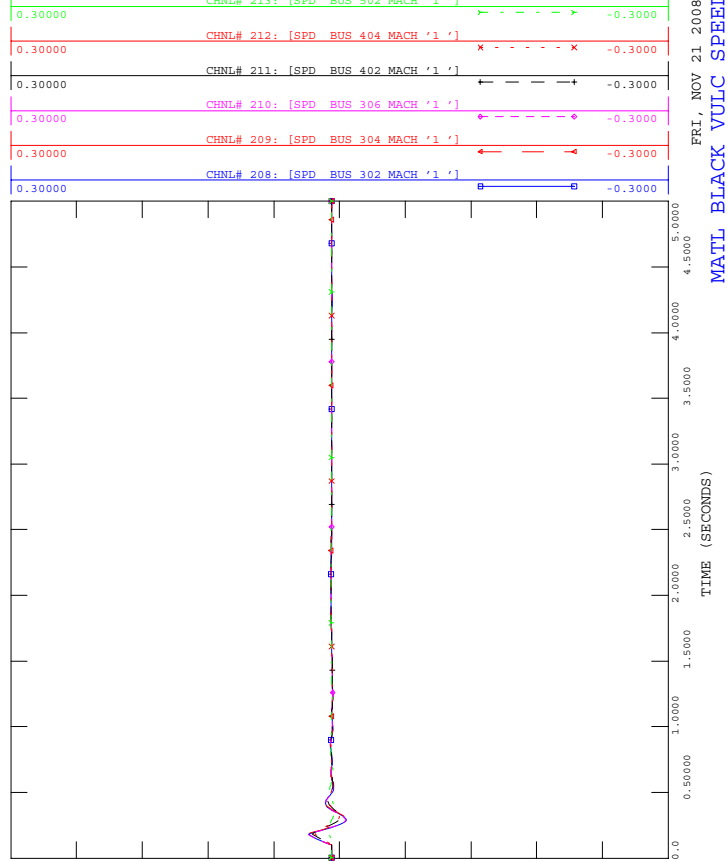
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FRI, NOV 21 2008 13:33

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ABSO CASE

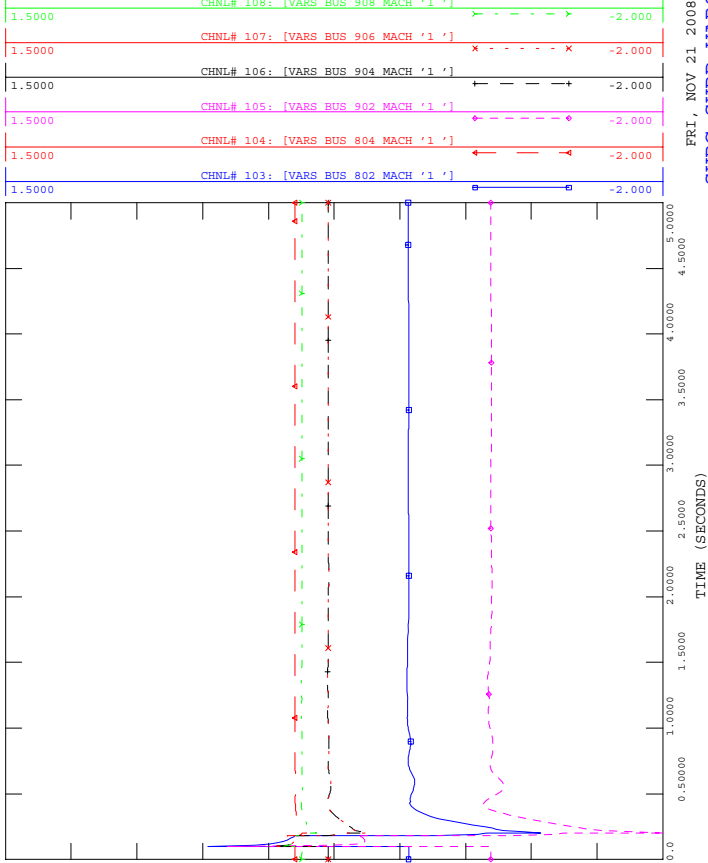
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ABSO CASE

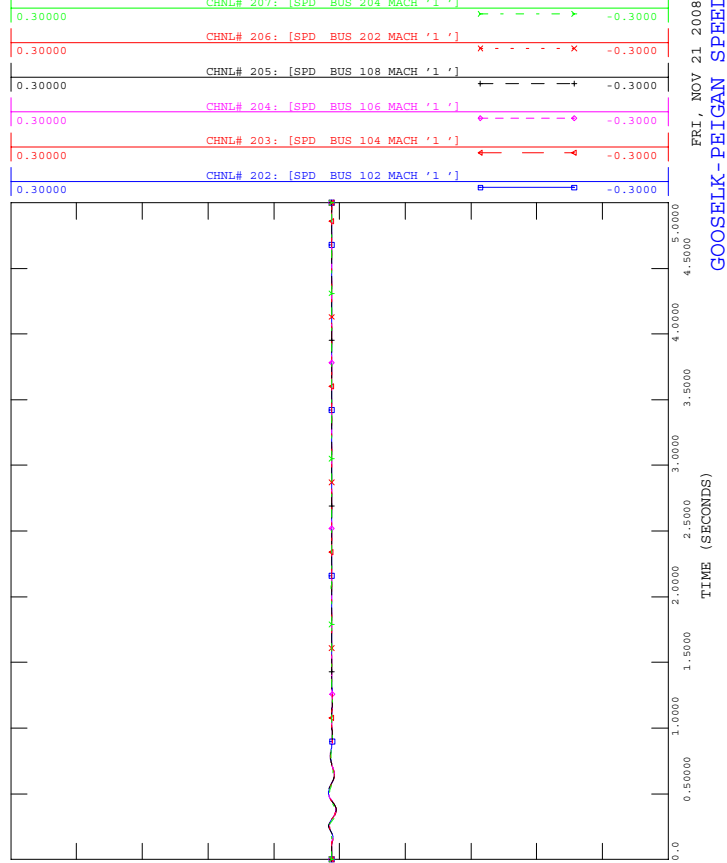
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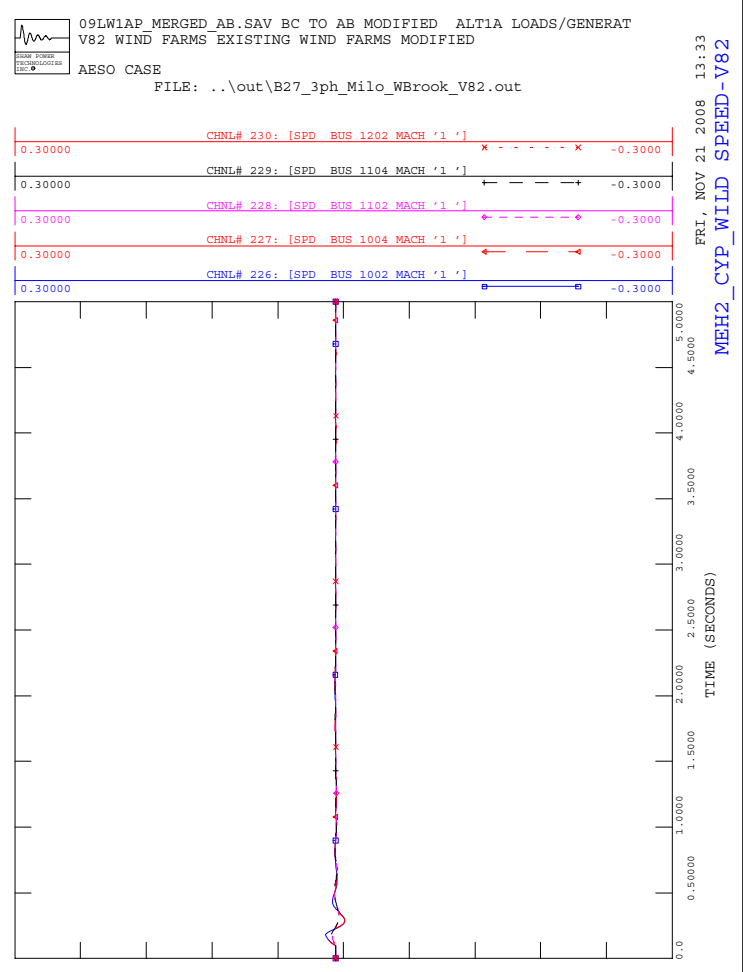
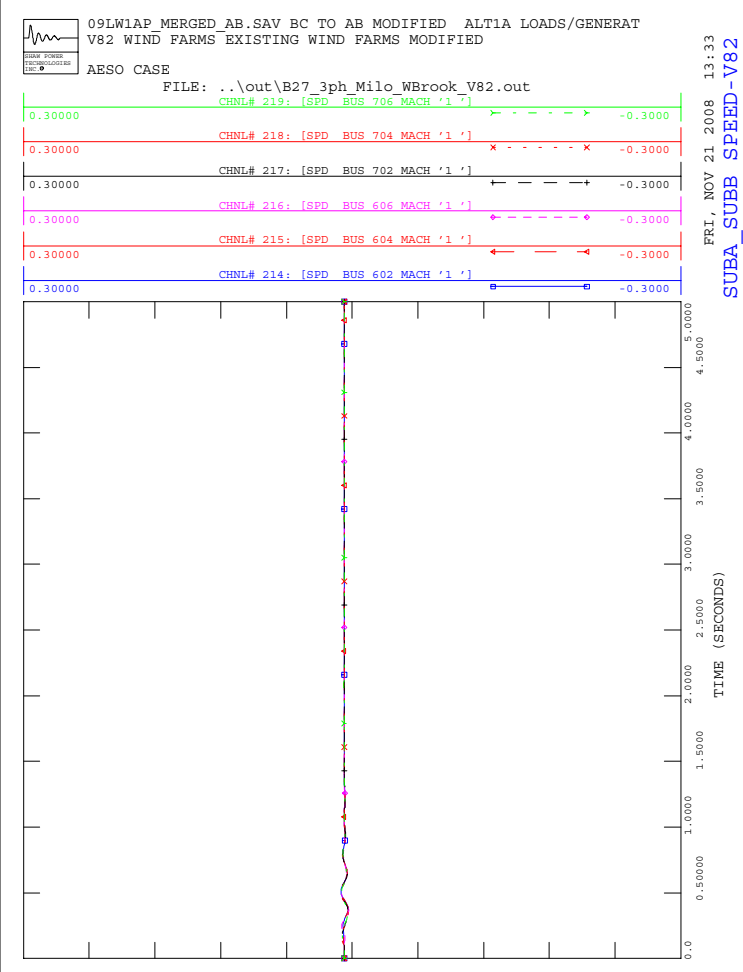
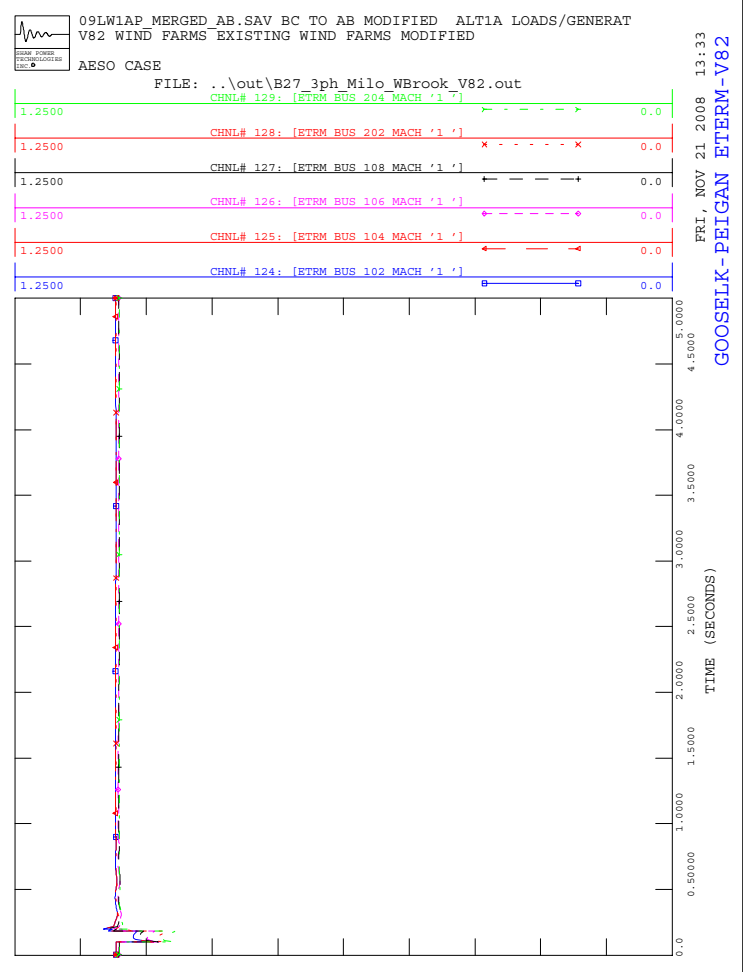
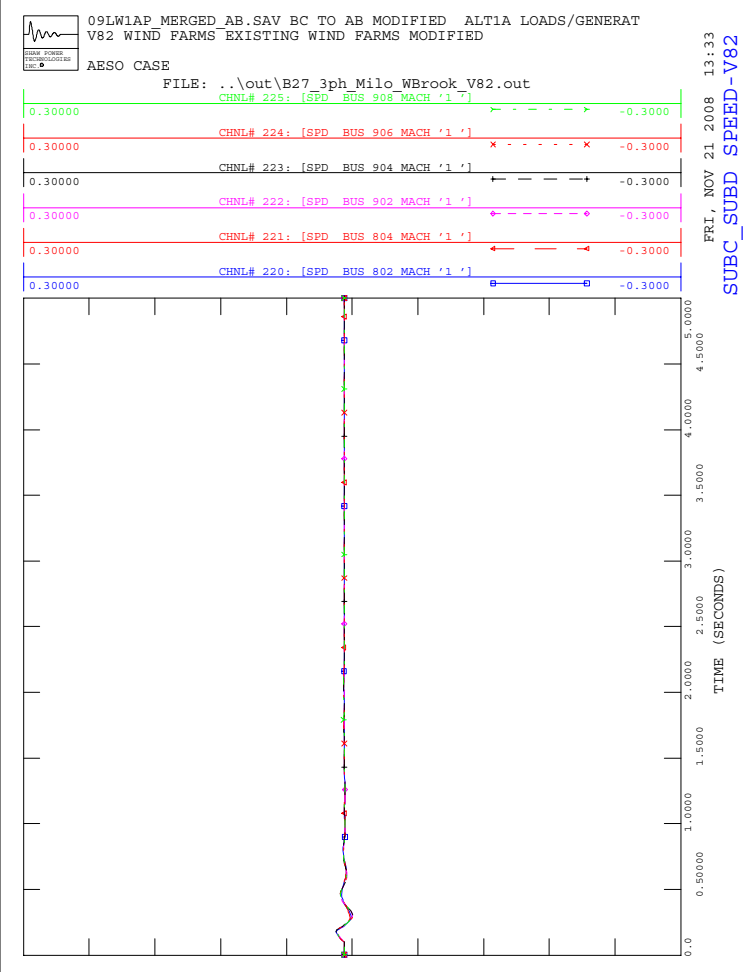
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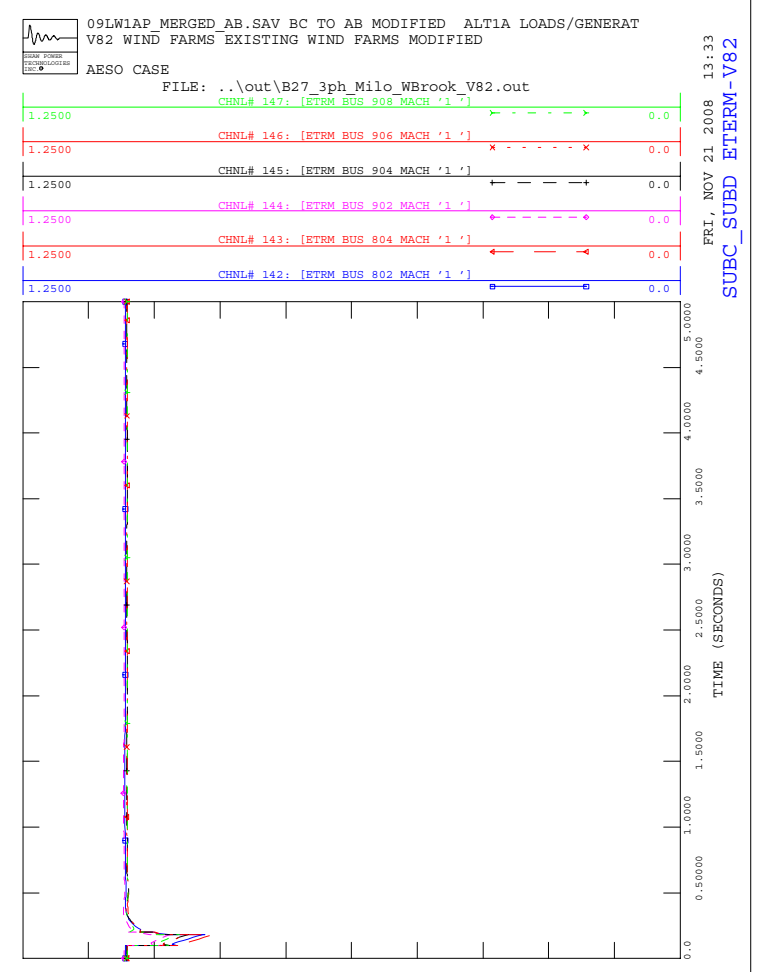
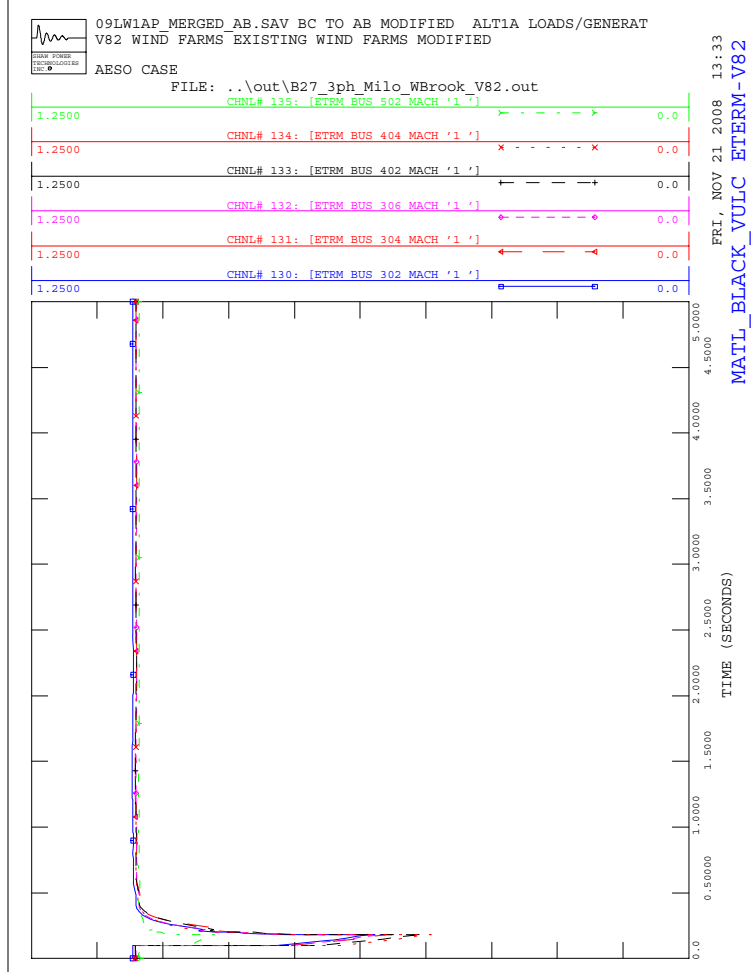
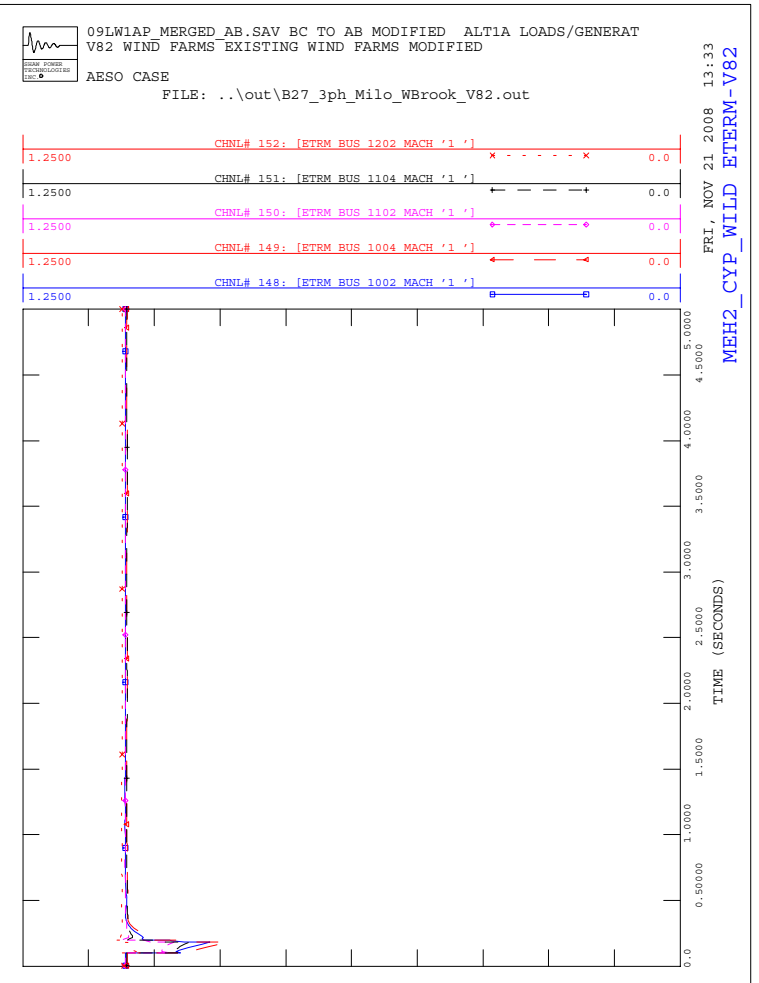
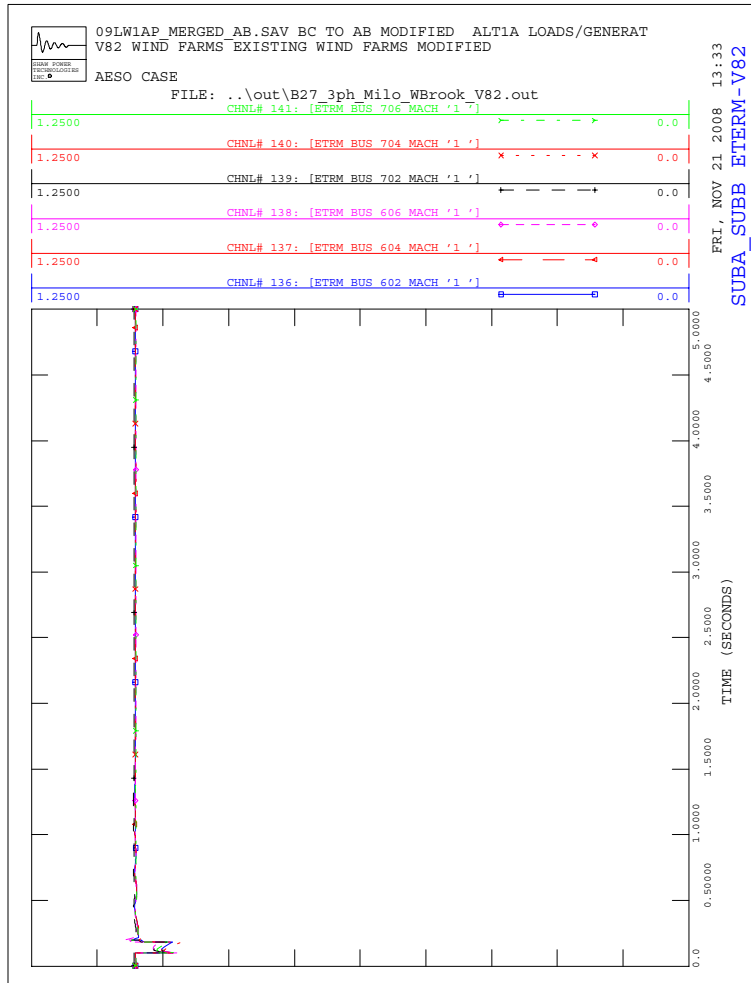
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

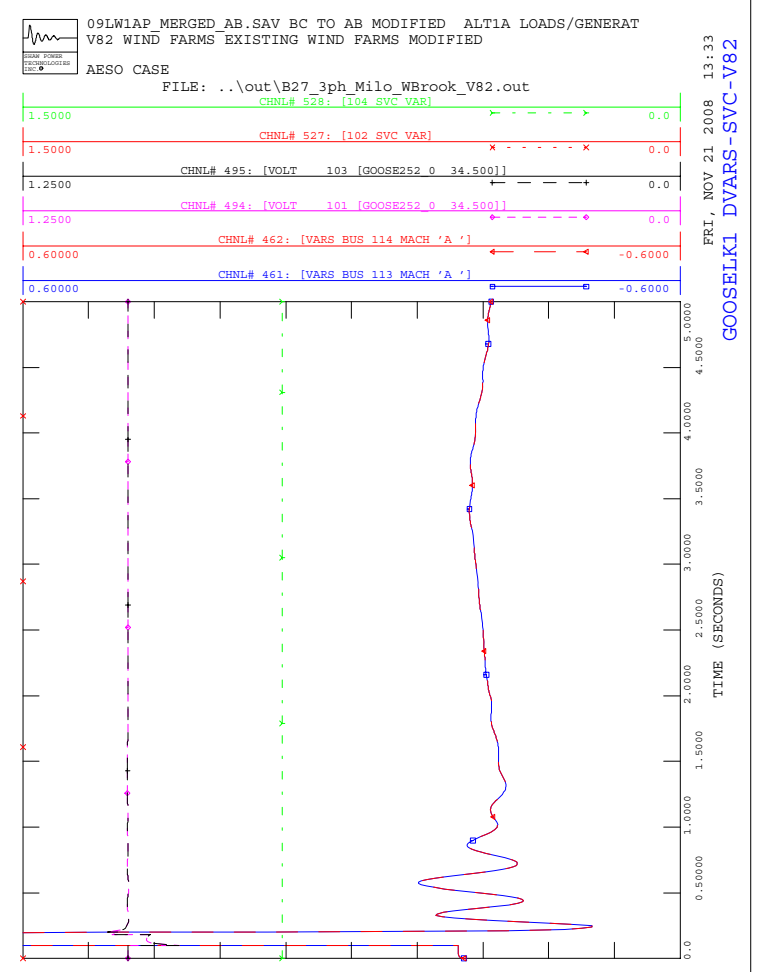
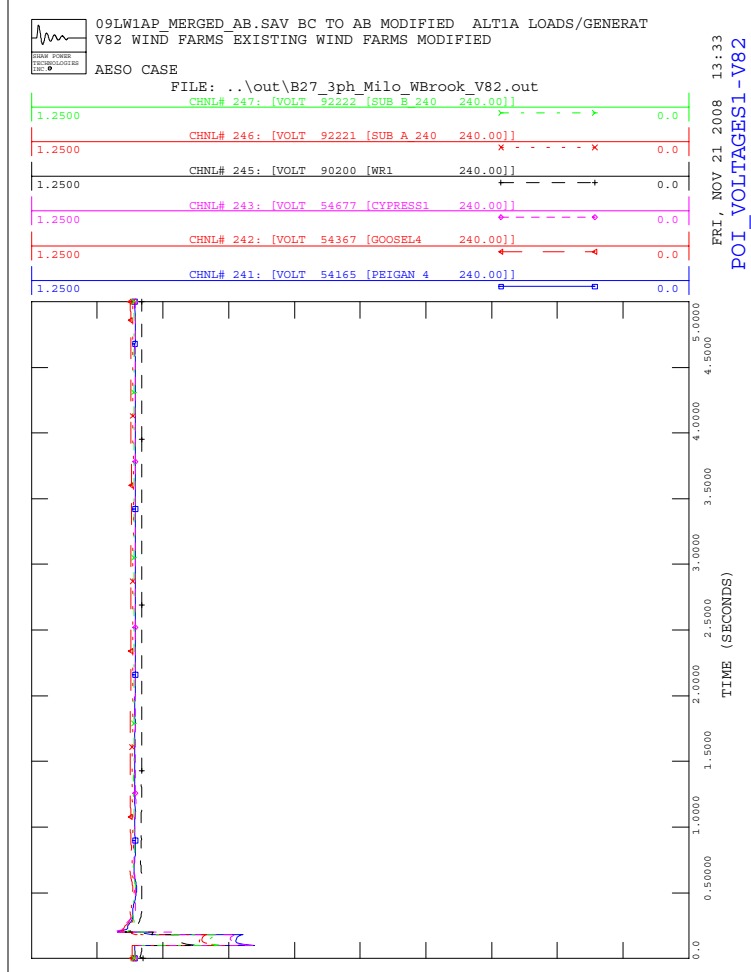
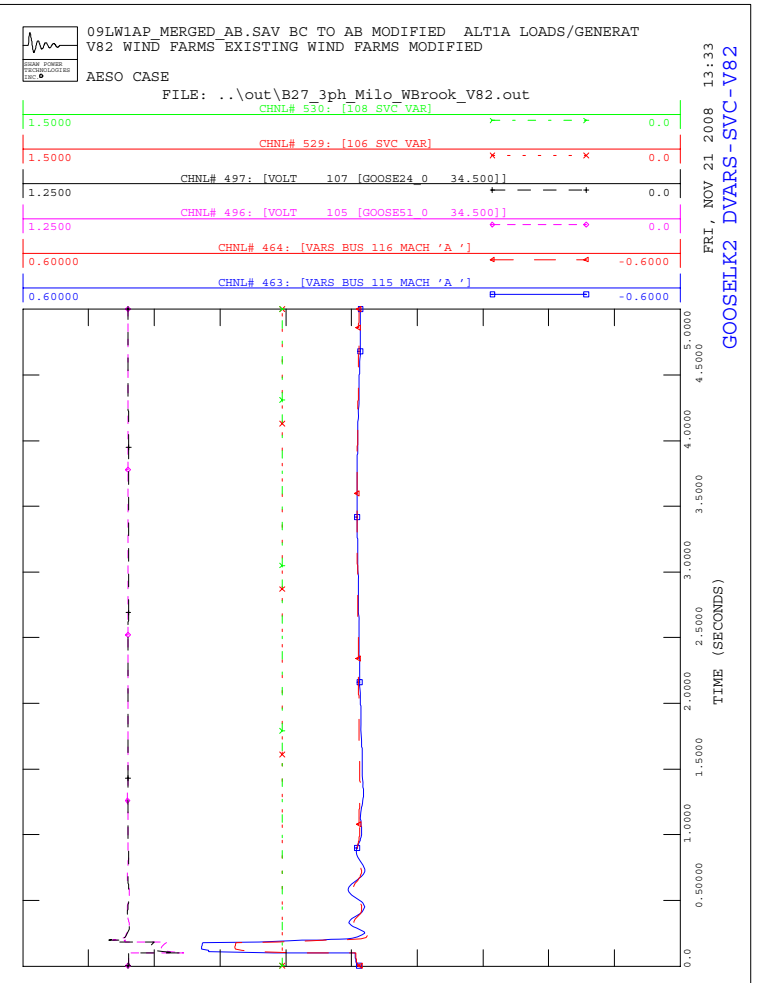
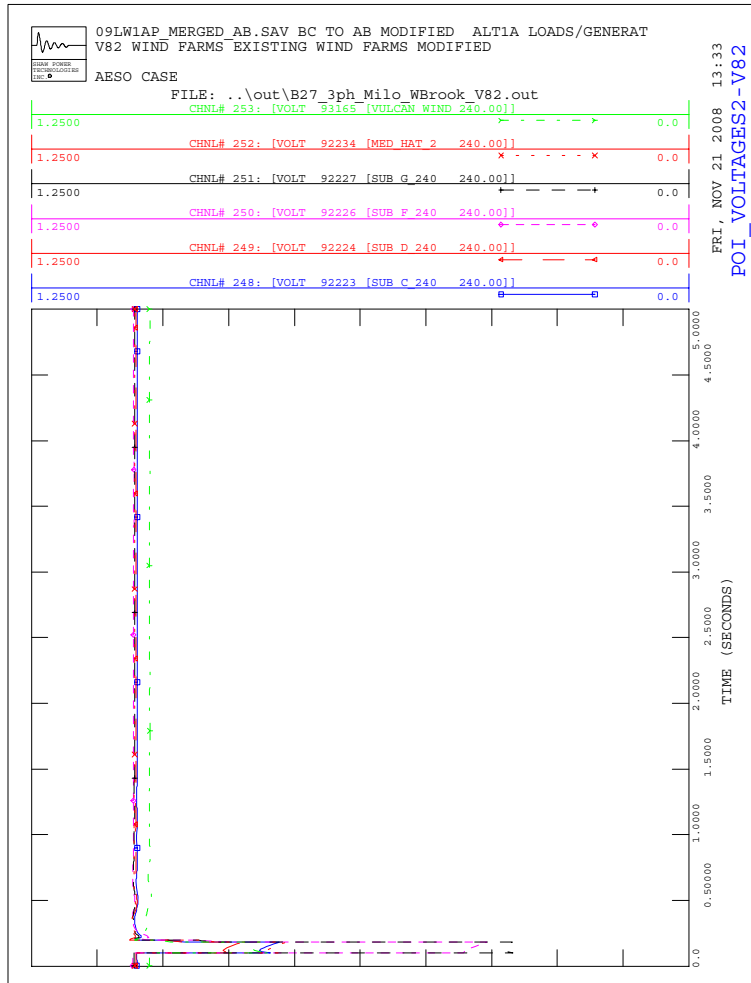
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FRI, NOV 21 2008 13:33

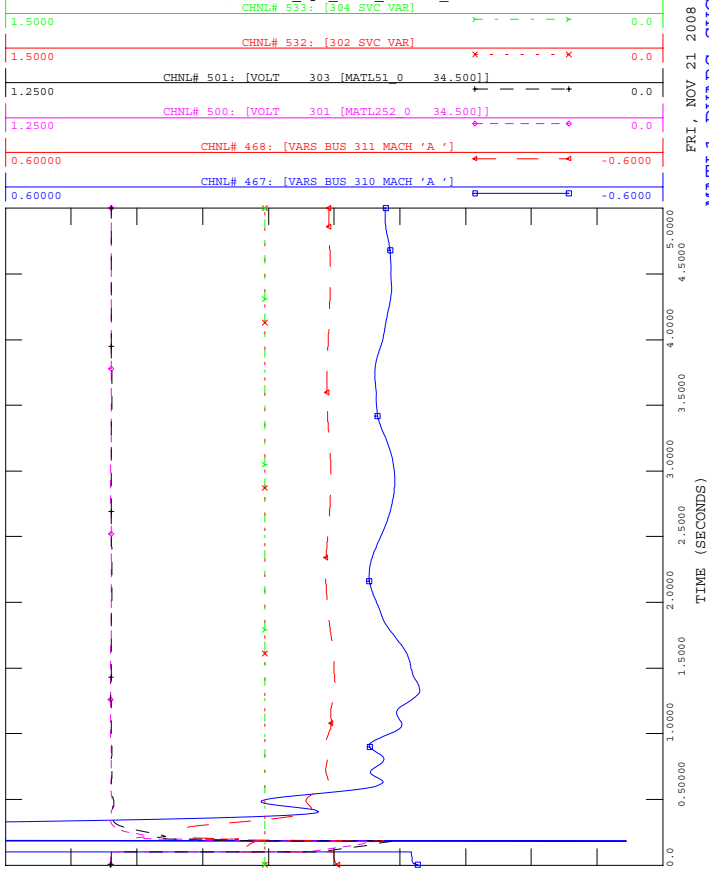






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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

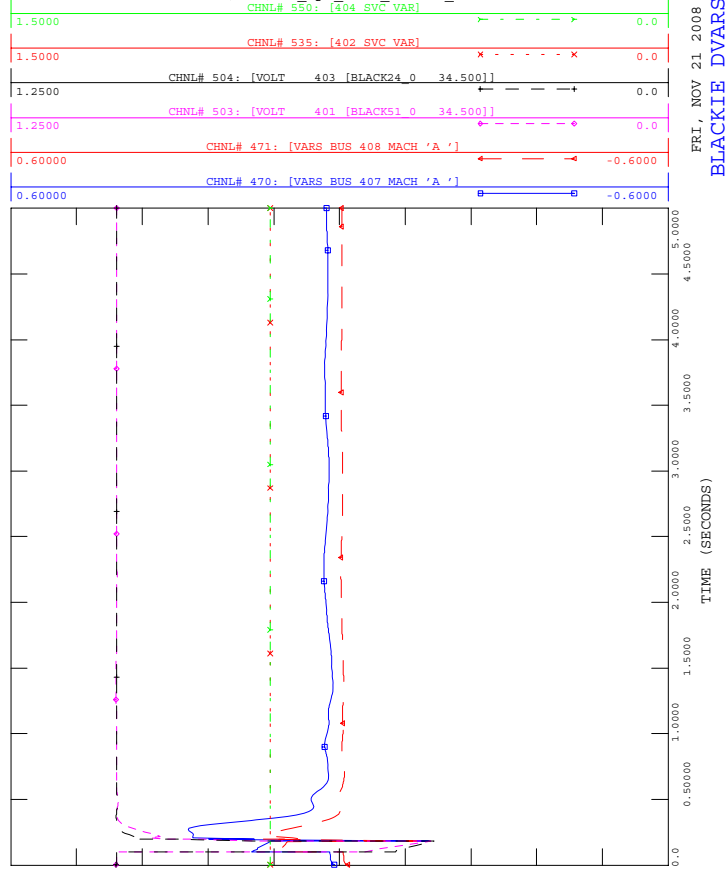
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FRI, NOV 21 2008 13:33
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

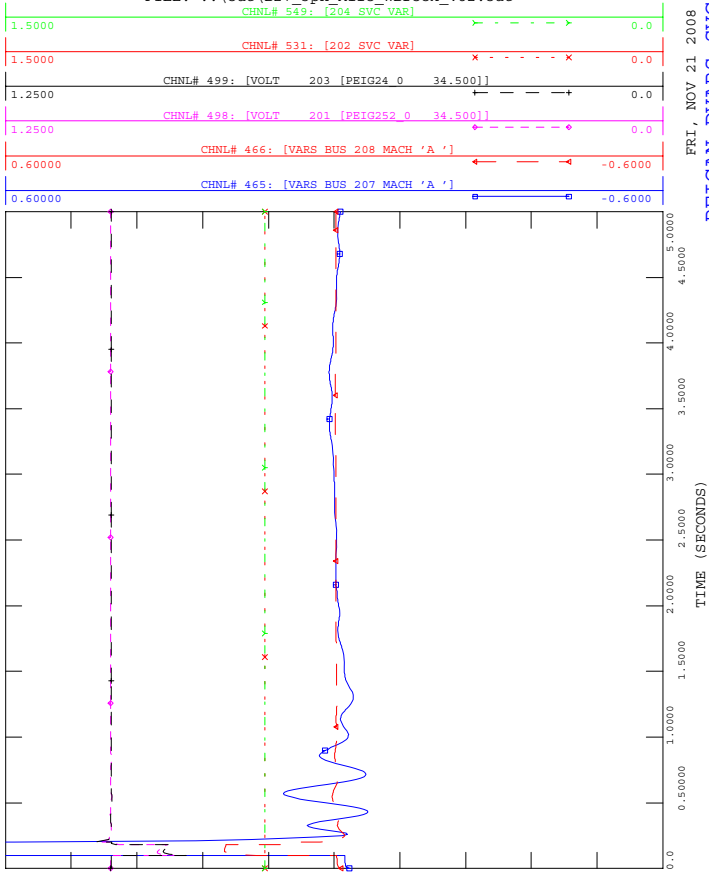
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FRI, NOV 21 2008 13:33
 BLACKIE DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

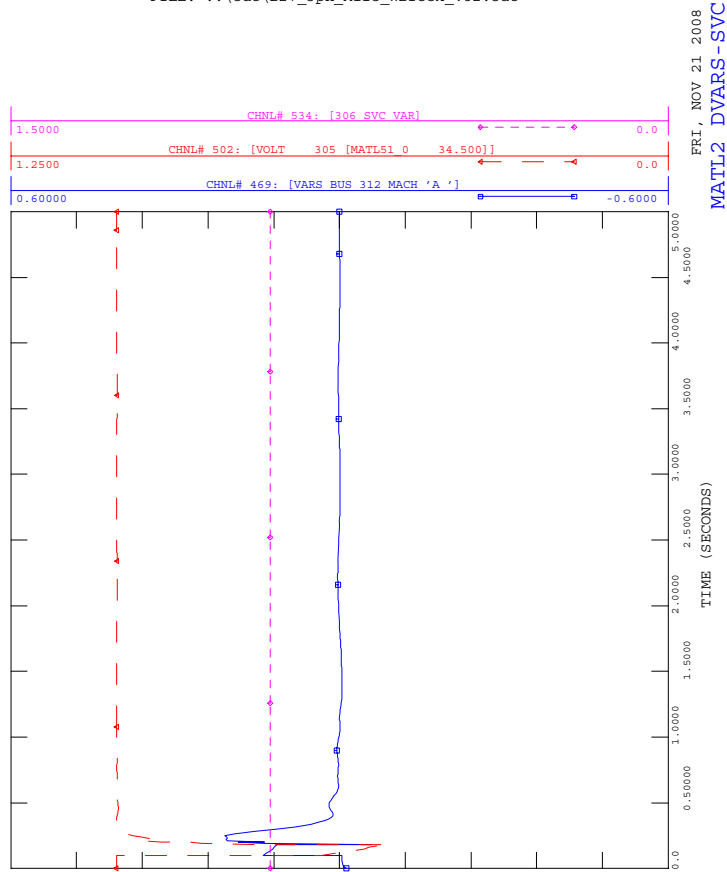
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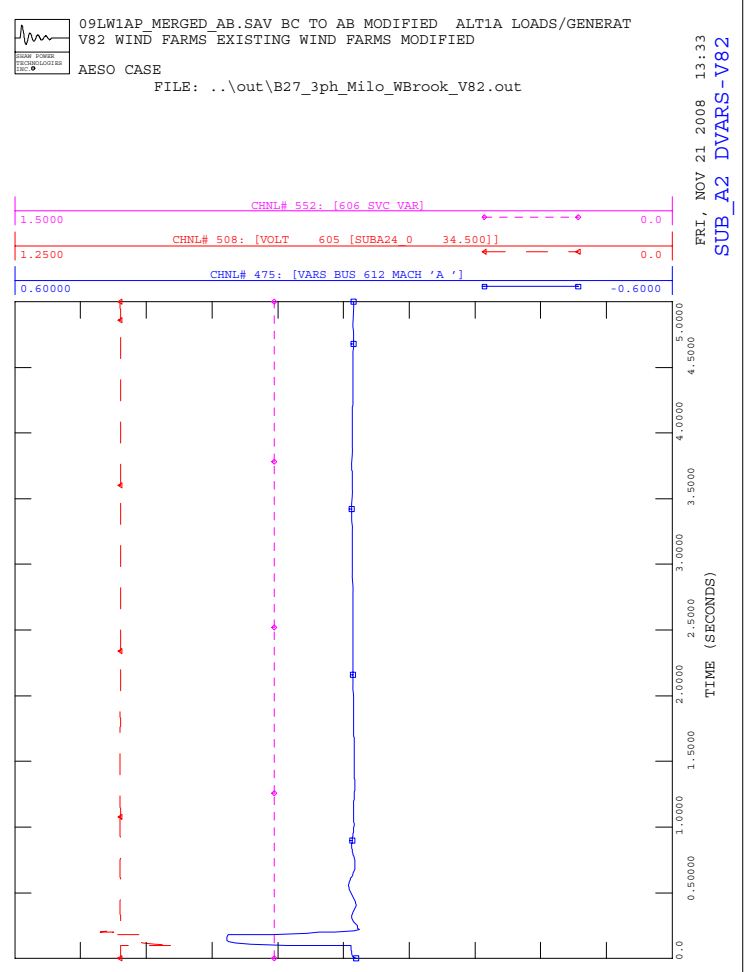
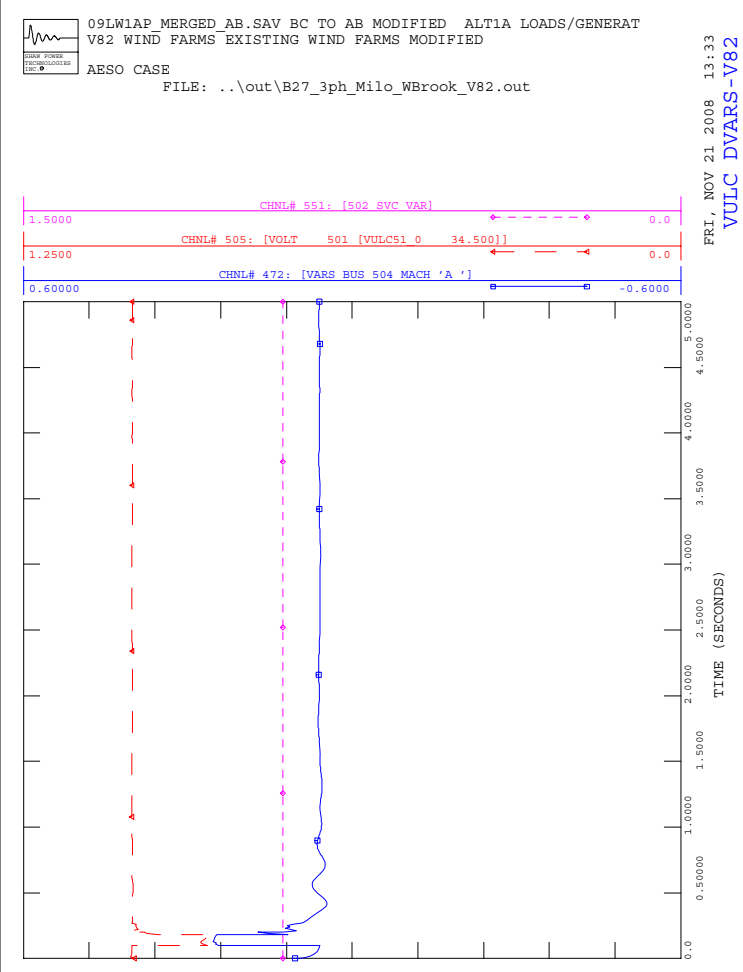
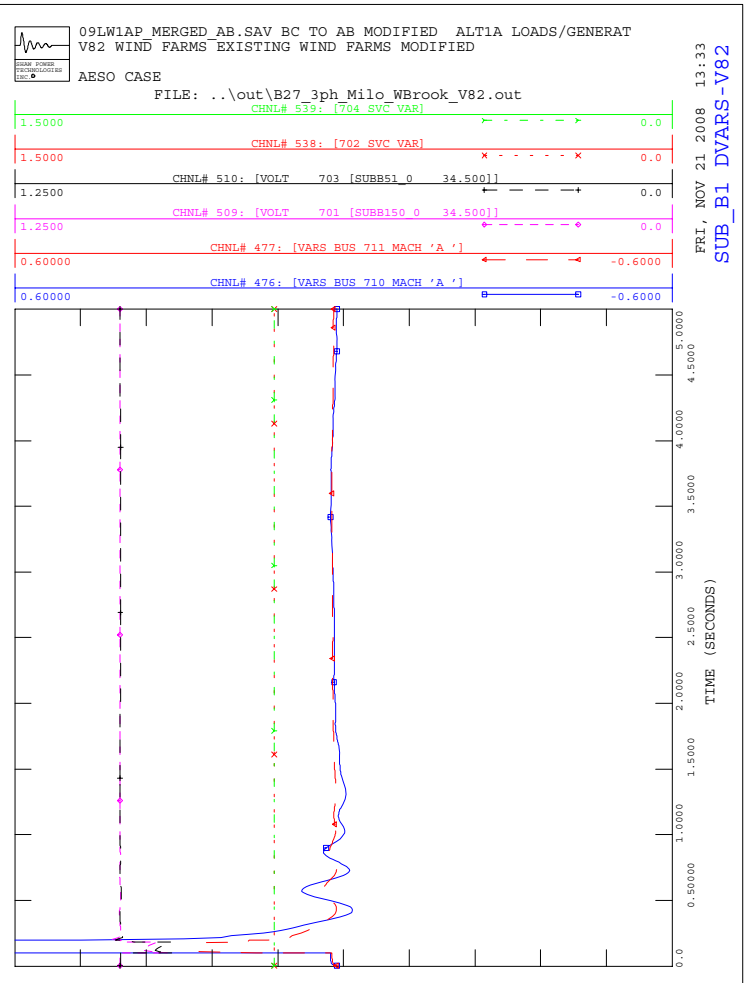
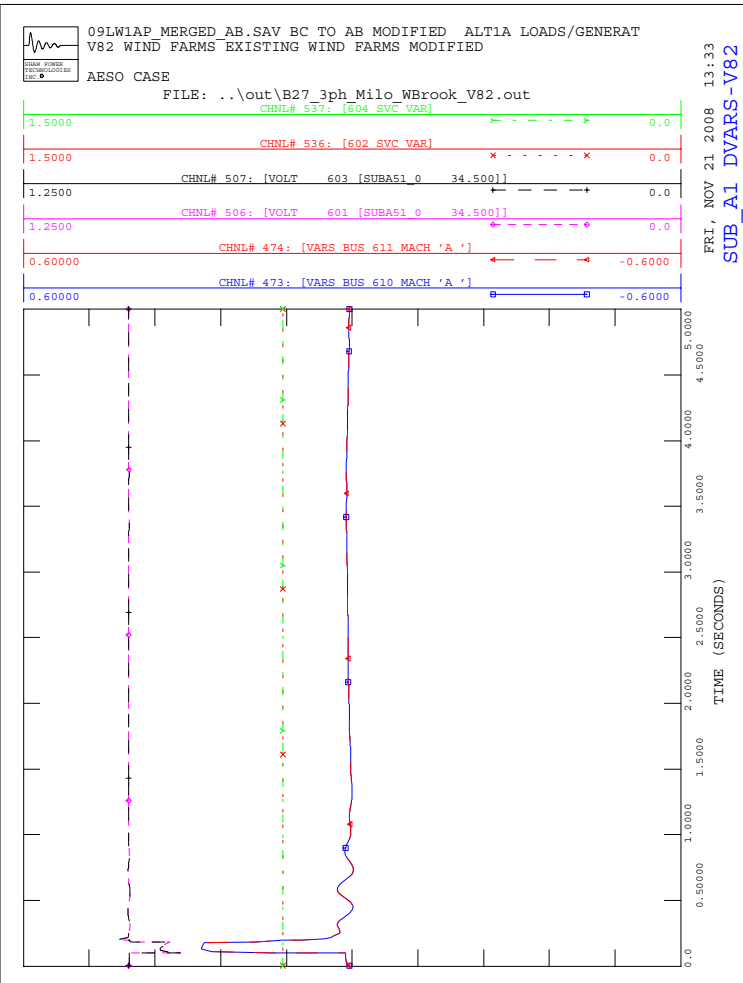
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 PEIGAN DVARS-SVC-V82

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 ABSO CASE

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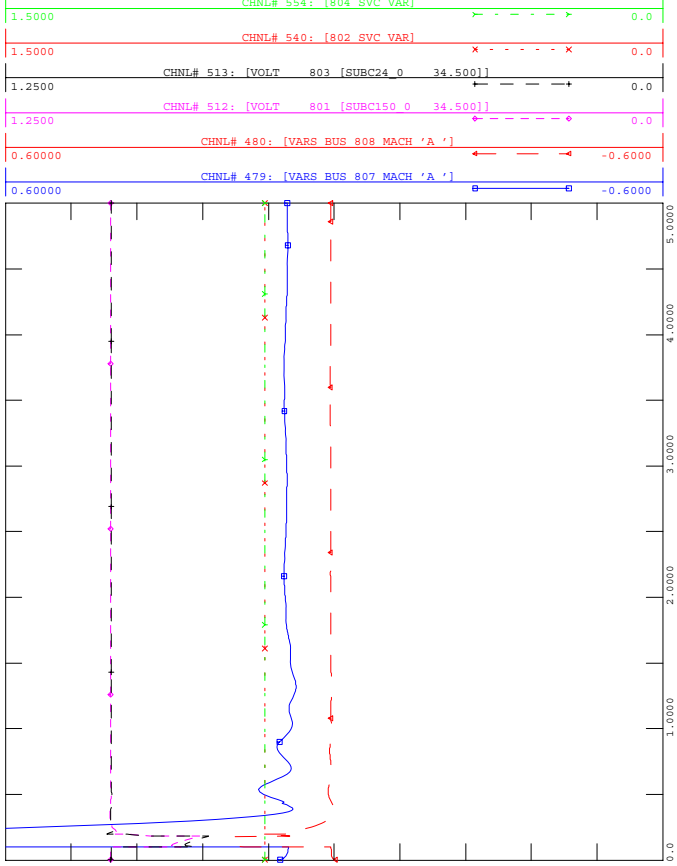


FRI, NOV 21 2008 13:33
 MATL2 DVARS-SVC-V82



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 ABSO CASE

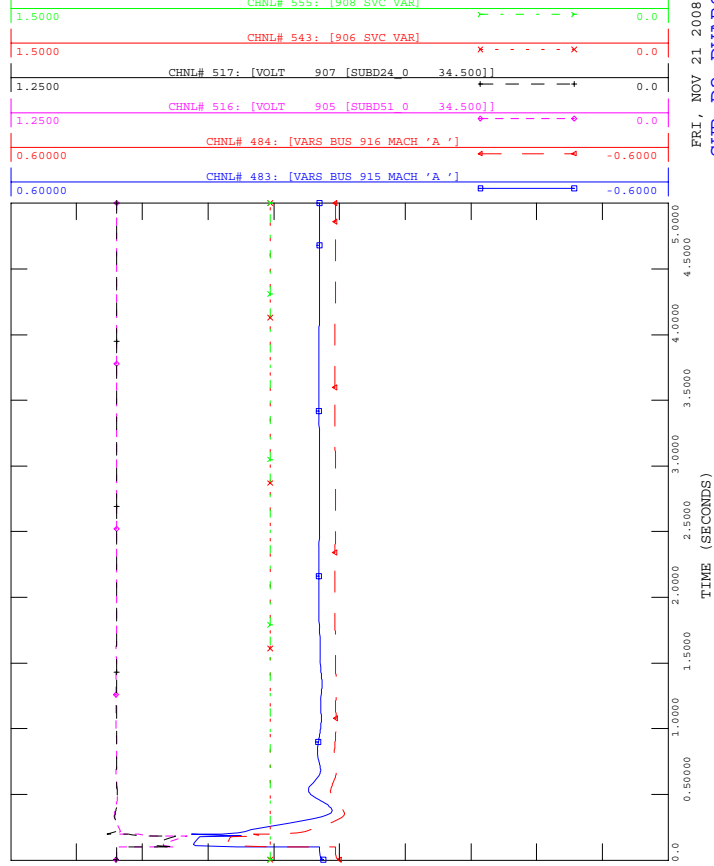
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FRI, NOV 21 2008 13:33
 SUB_C DVARS-V82

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 ABSO CASE

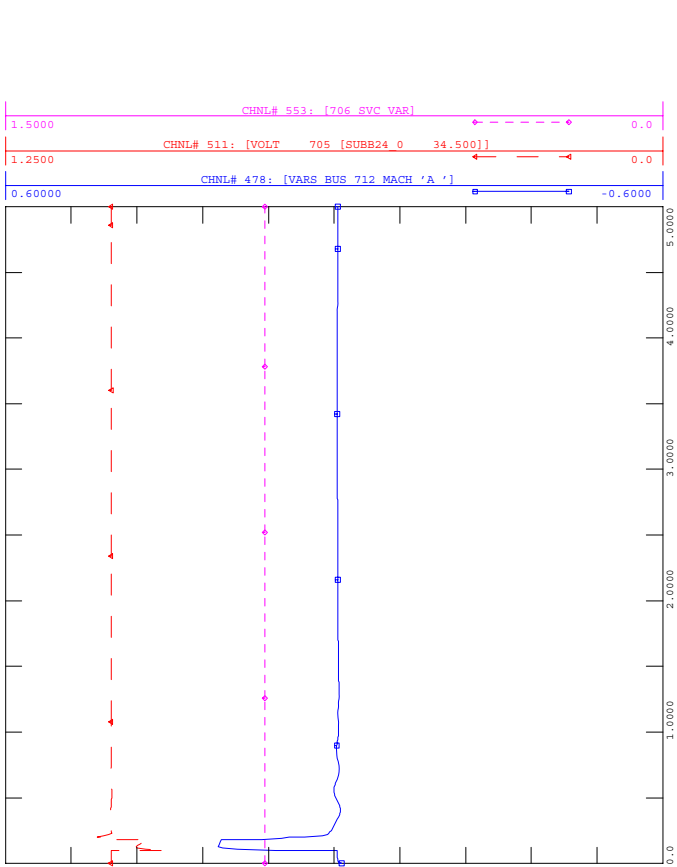
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FRI, NOV 21 2008 13:33
 SUB_D2 DVARS-V82

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 ABSO CASE

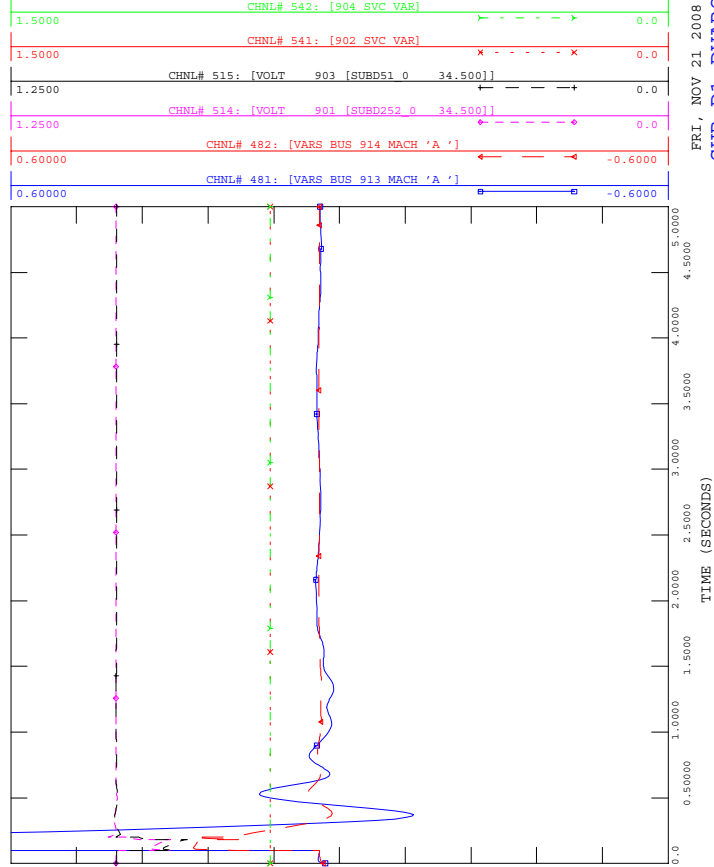
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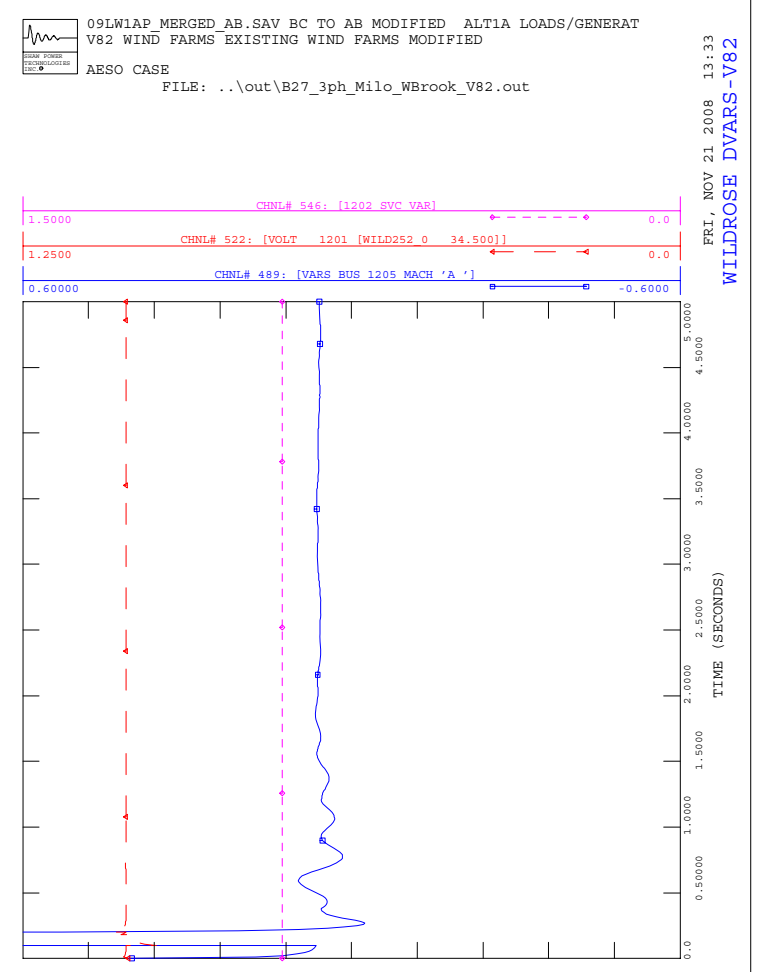
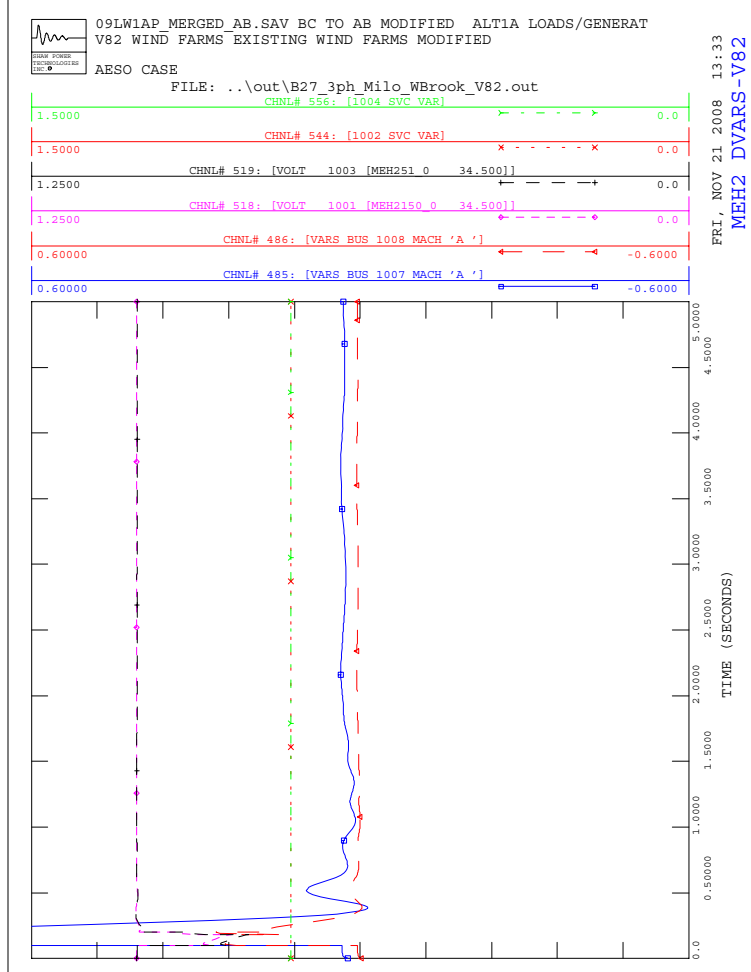
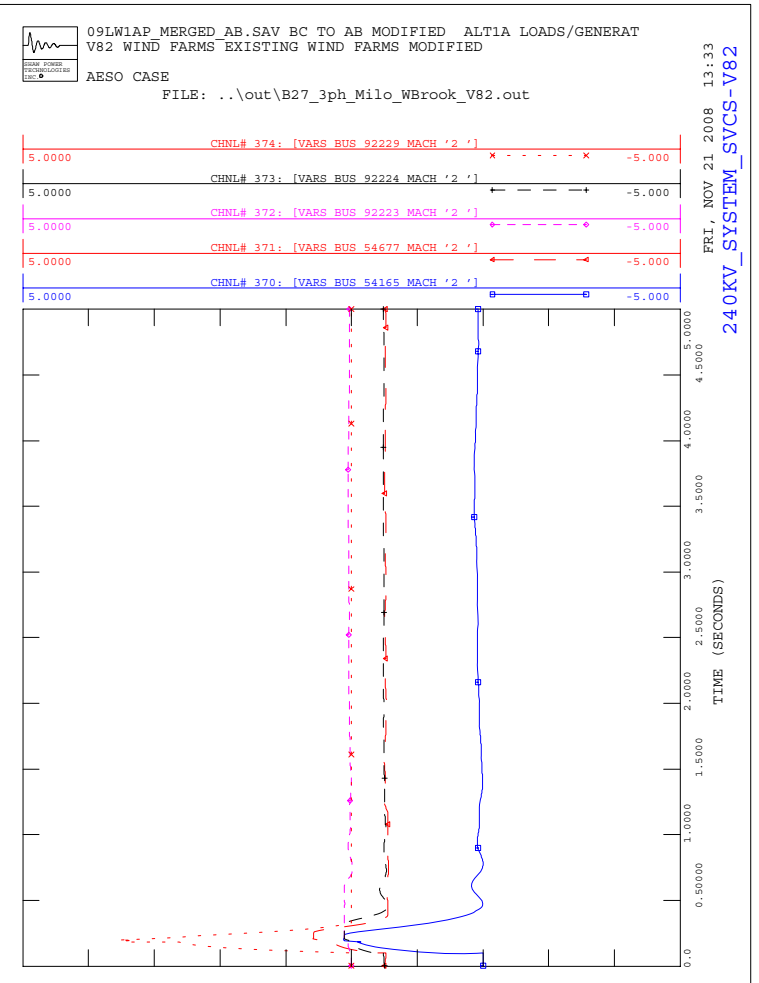
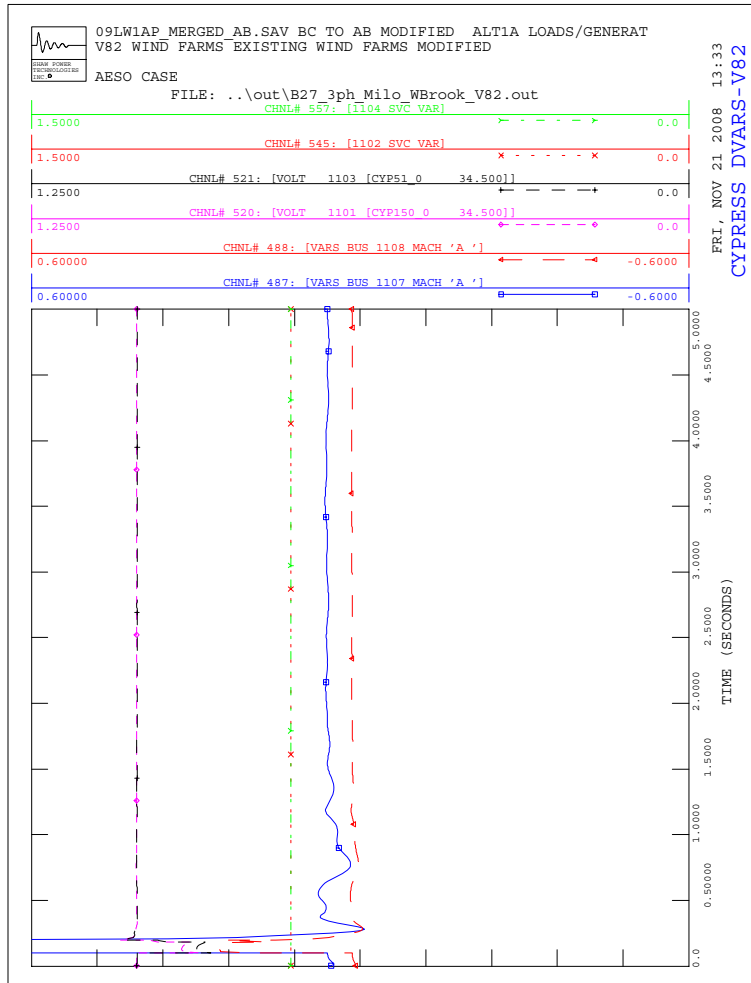
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 SUB_B2 DVARS-V82

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 ABSO CASE

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FRI, NOV 21 2008 13:33
 SUB_D1 DVARS-V82



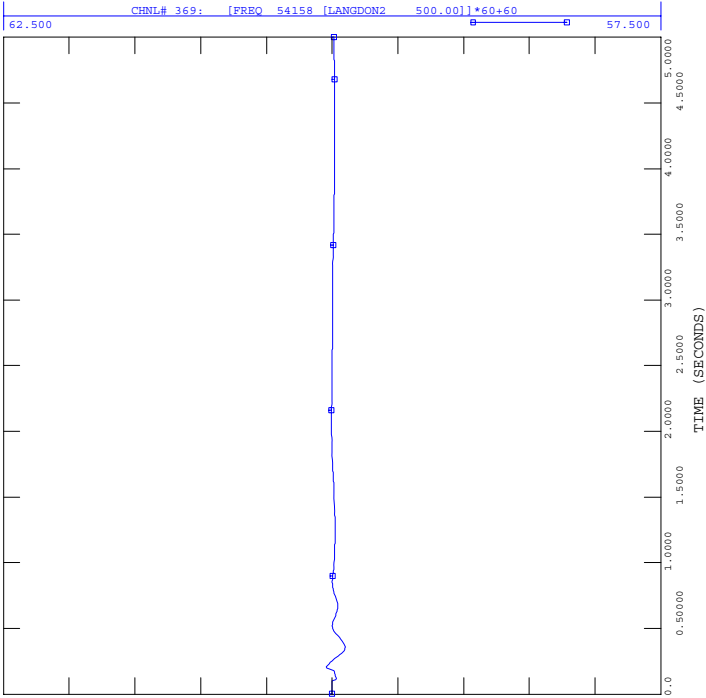


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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

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FRI, NOV 21 2008 13:33
LANGDON_FRQ-V82

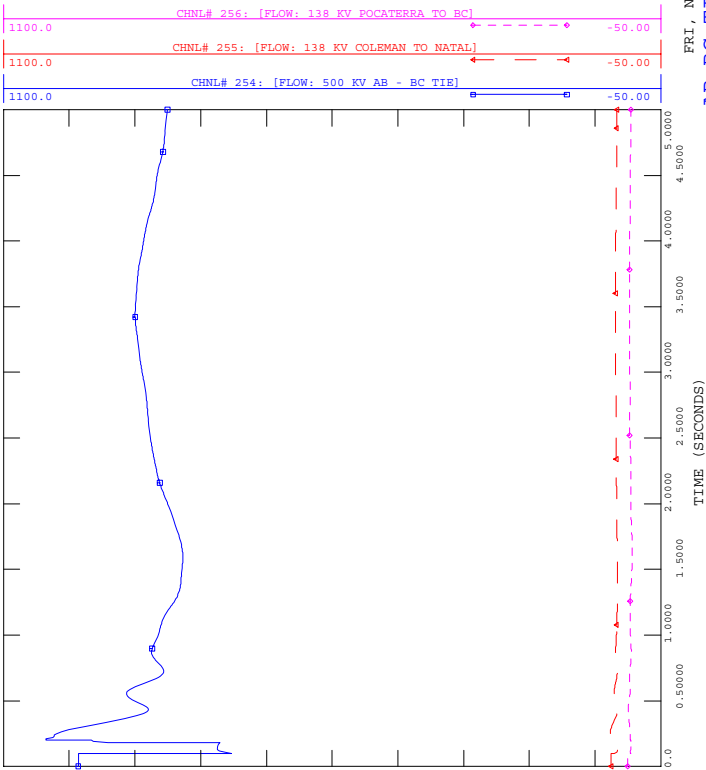


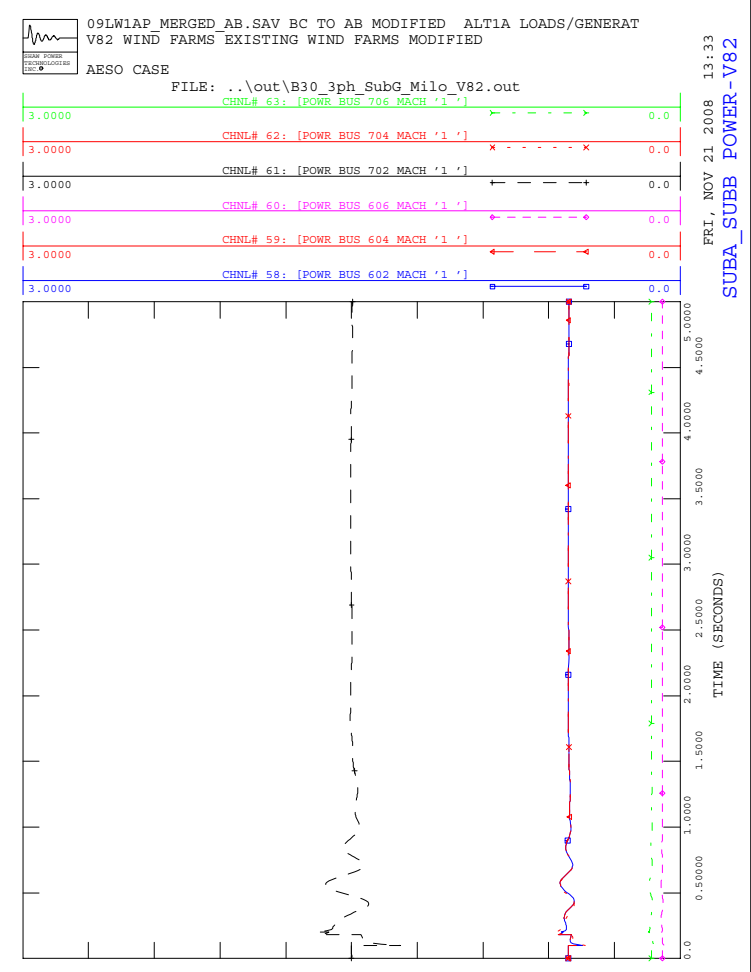
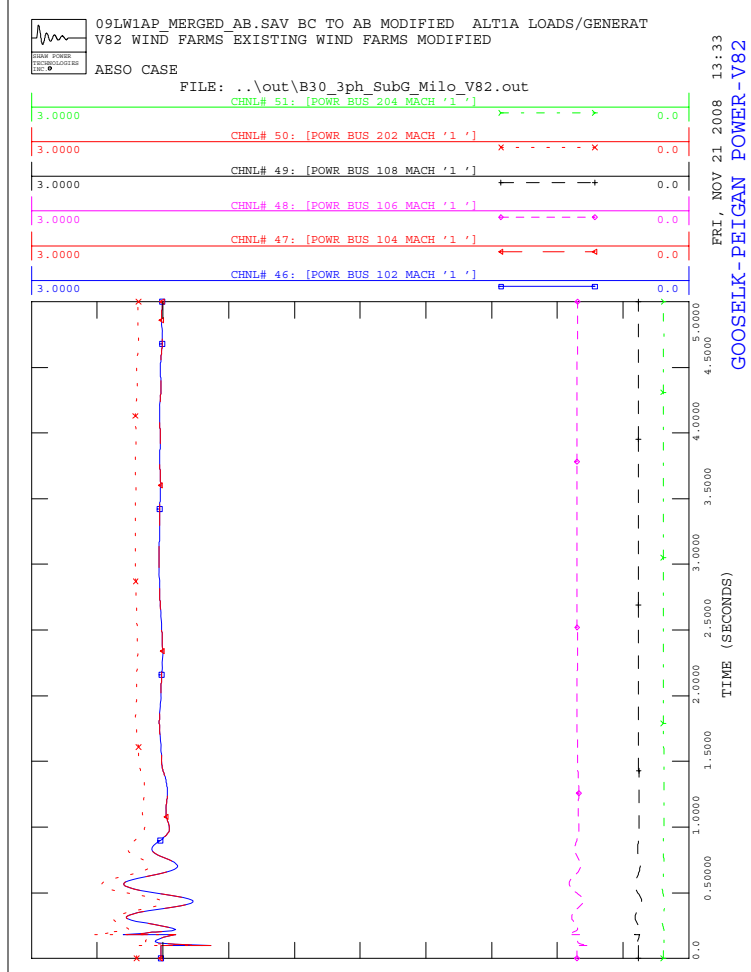
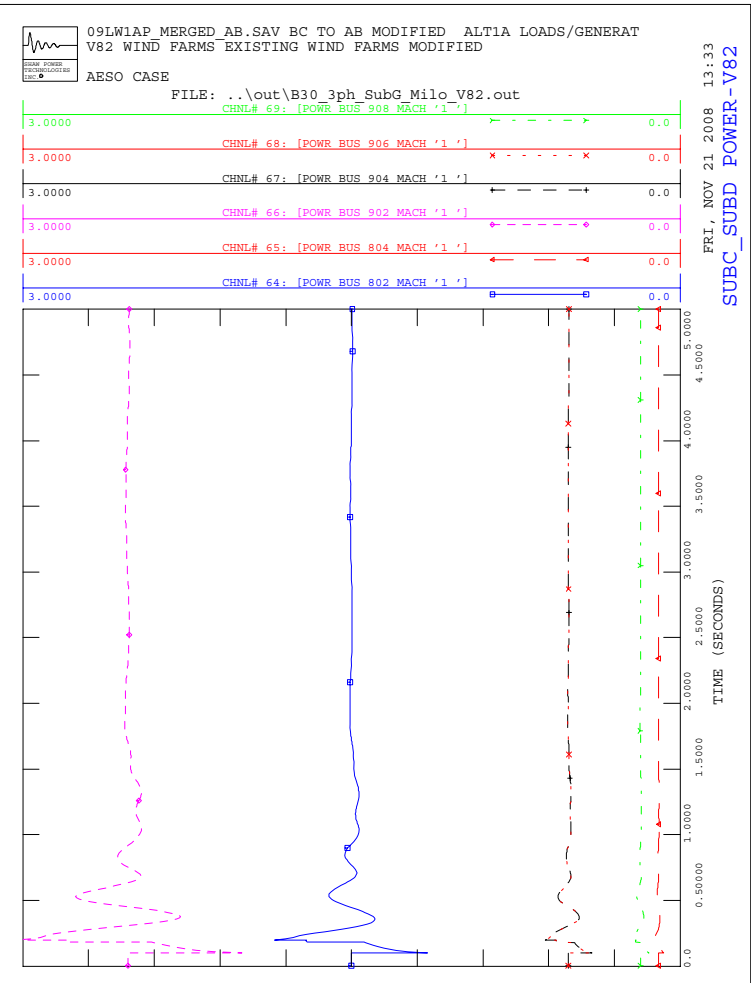
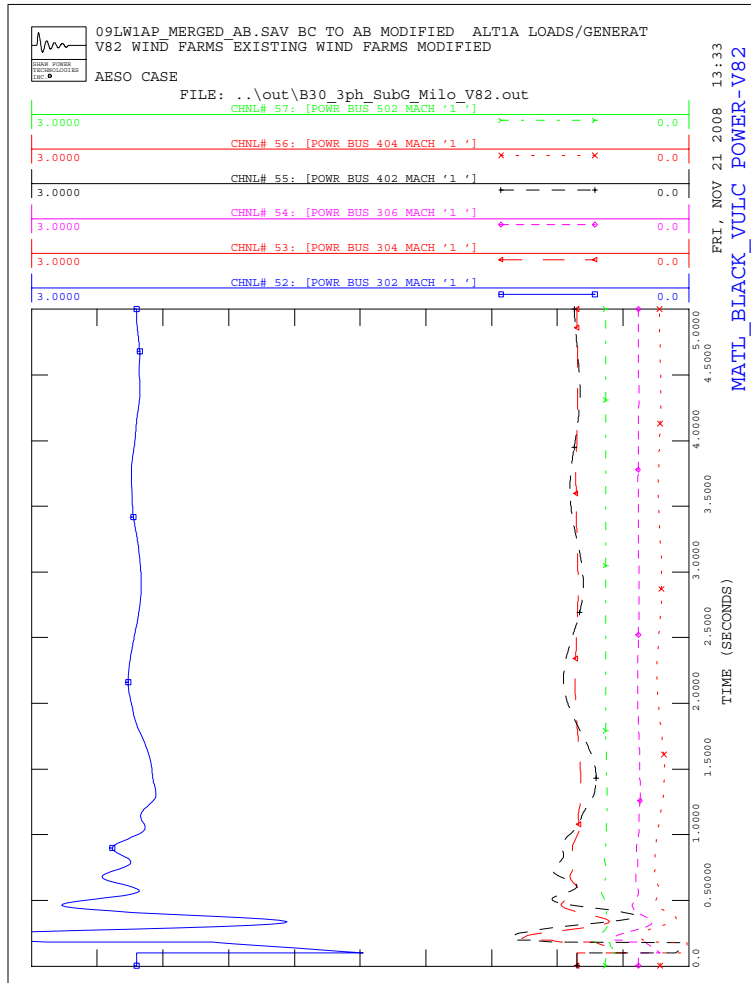
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

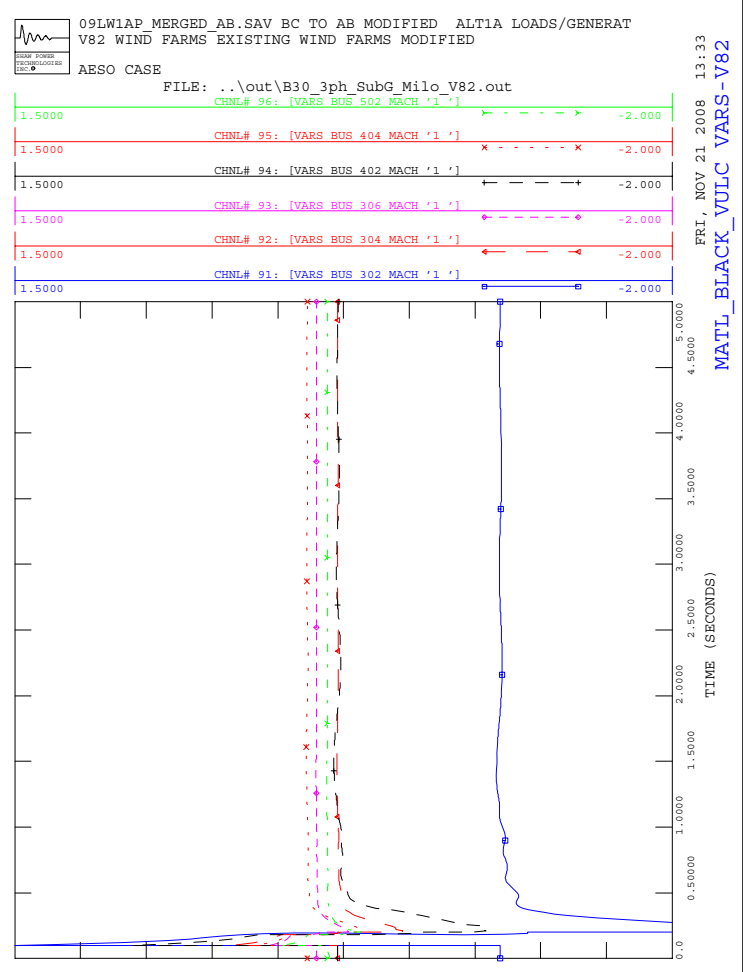
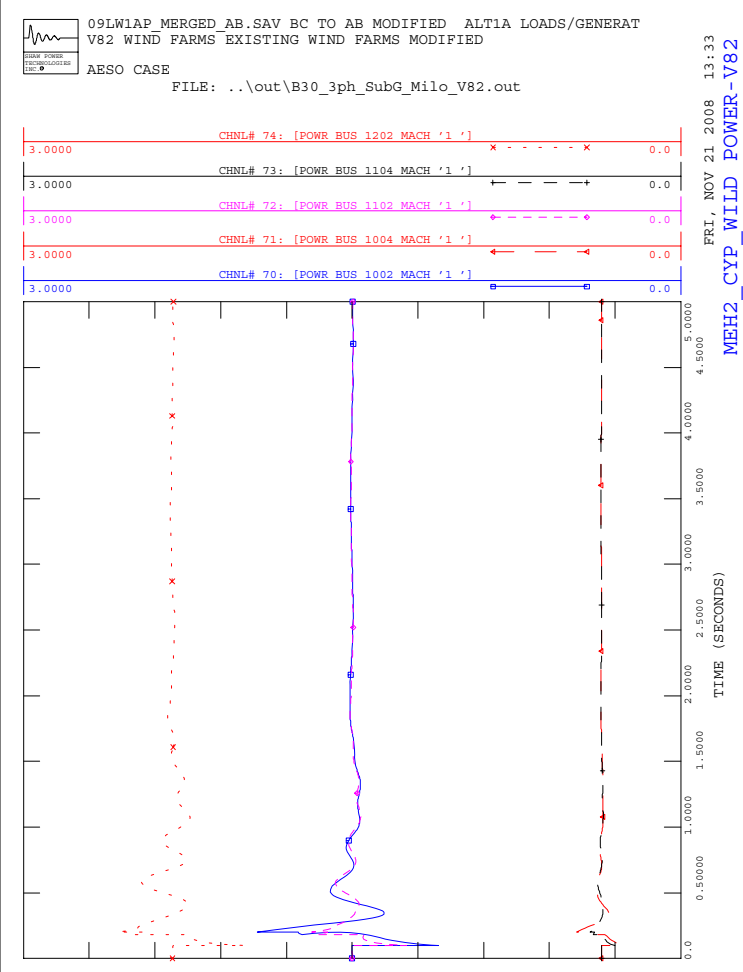
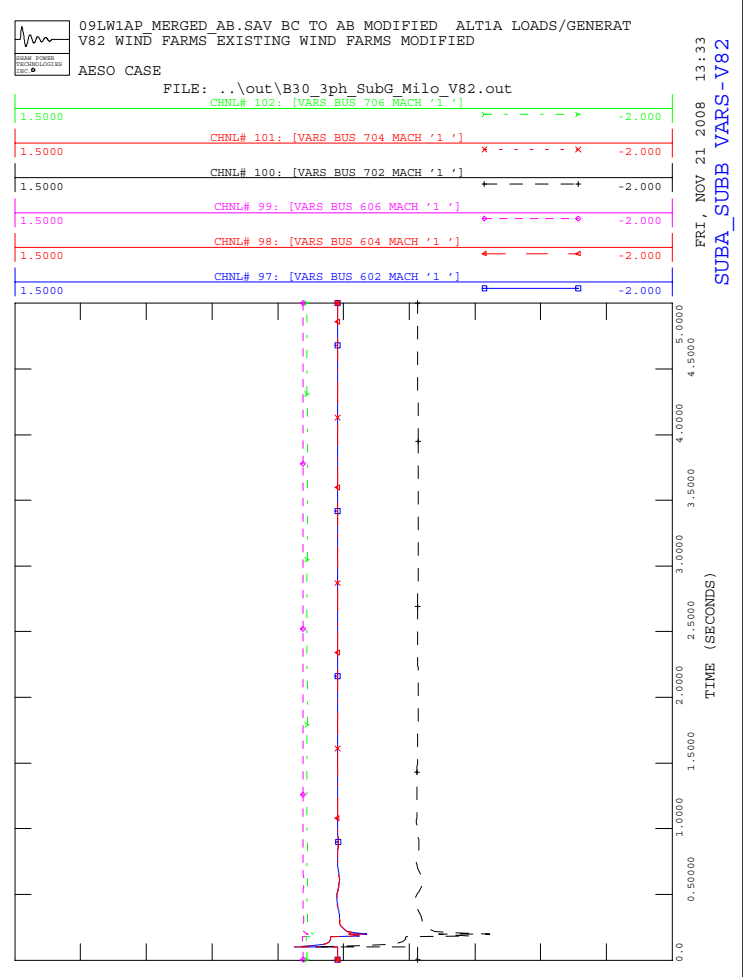
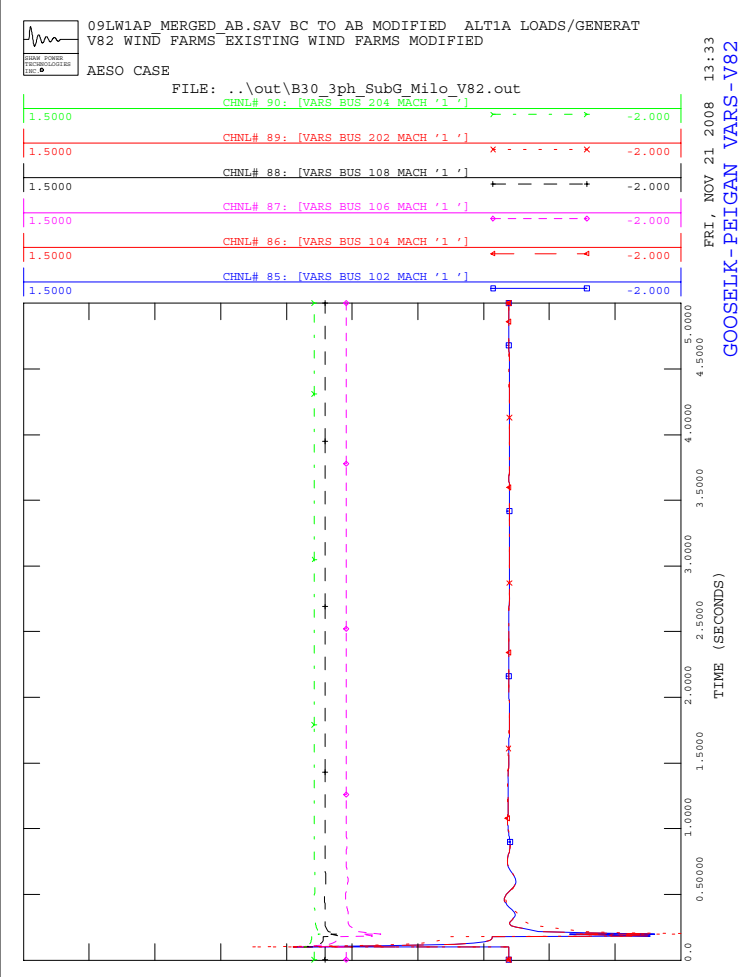
ABSO CASE

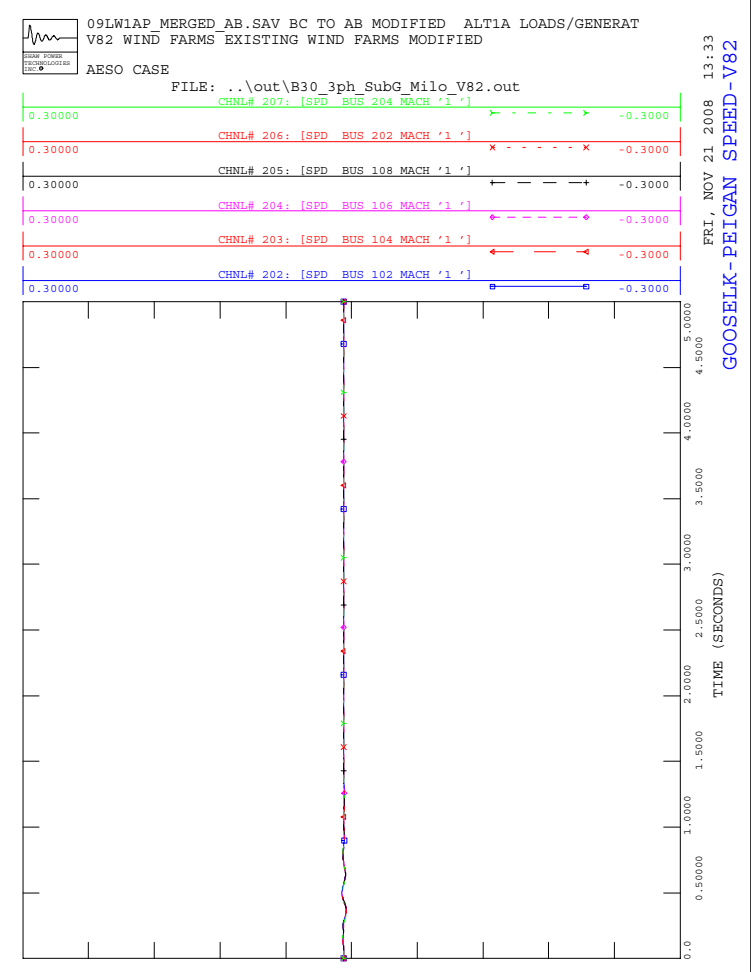
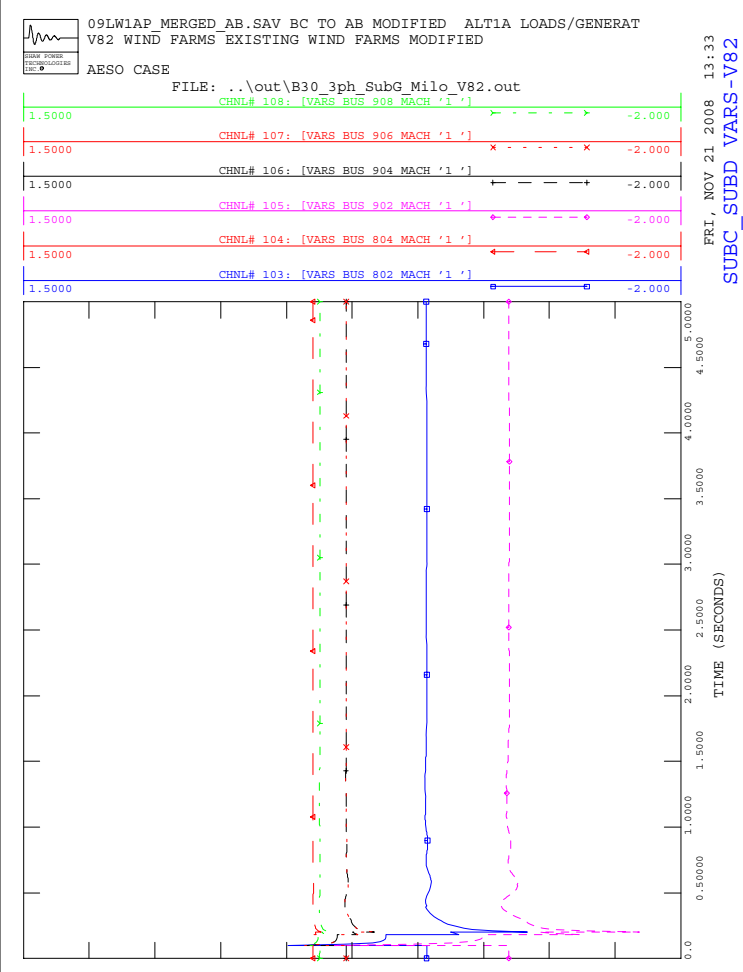
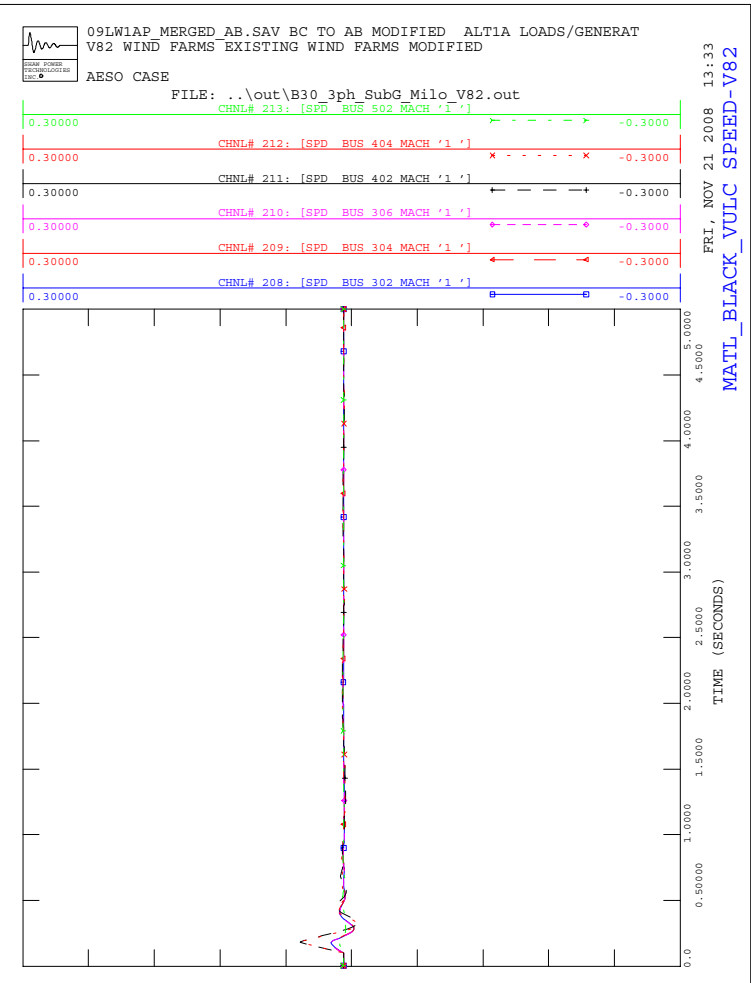
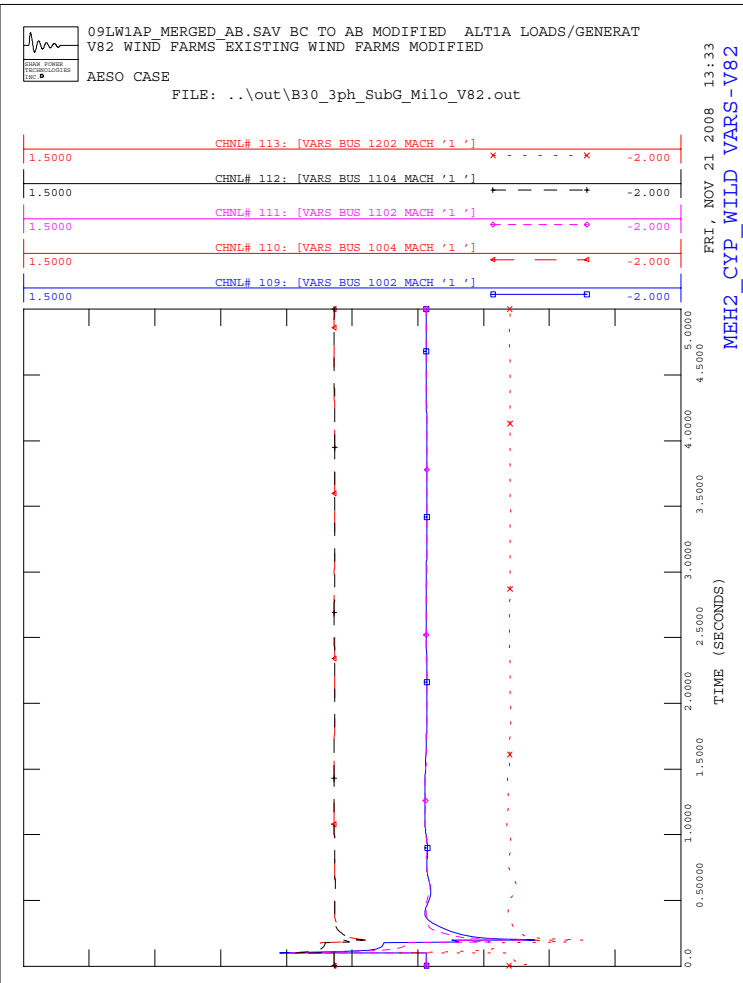
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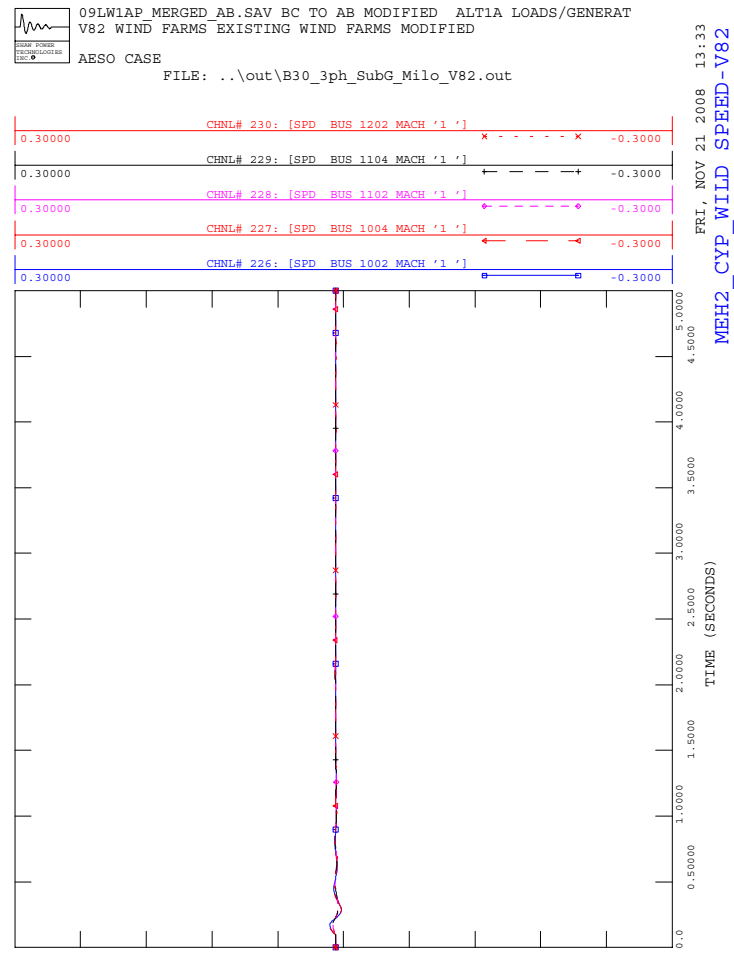
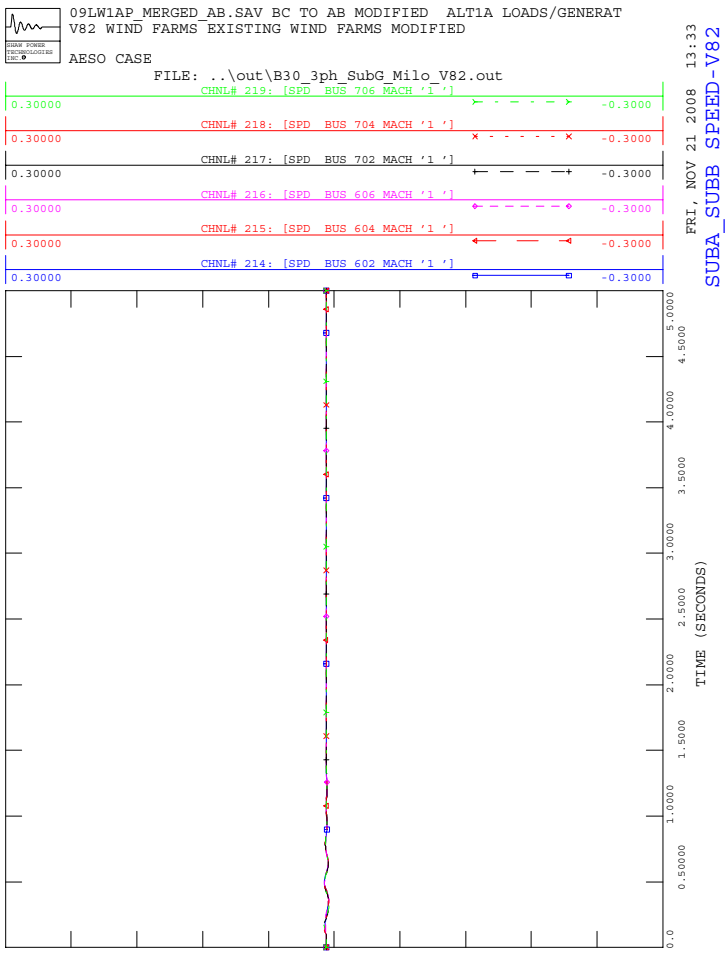
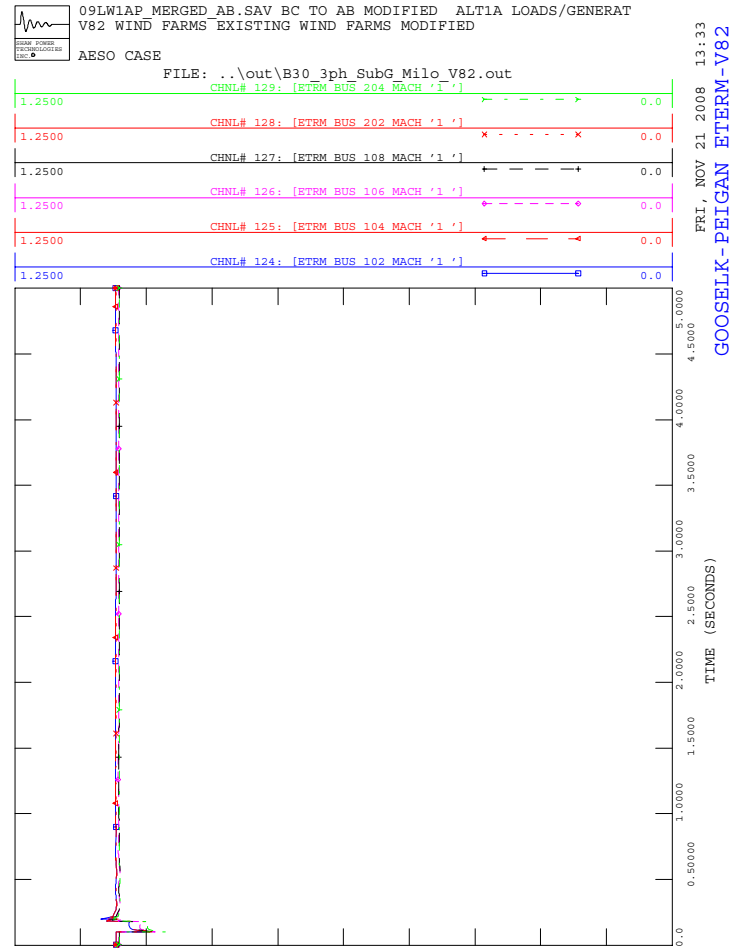
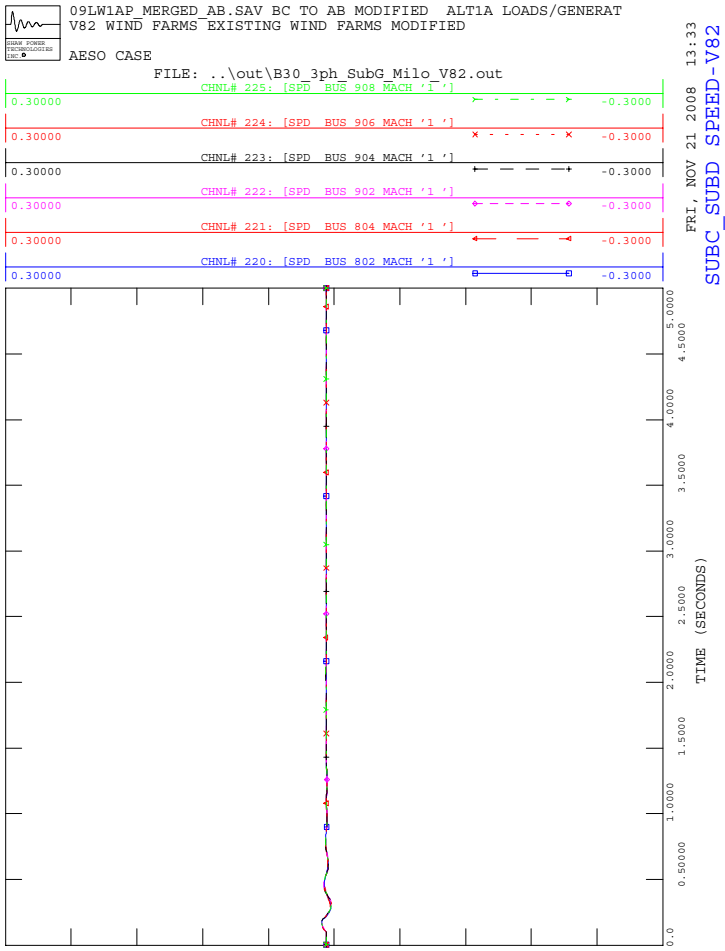
FRI, NOV 21 2008 13:33
AB_BC_TIE_FLOWS-V82

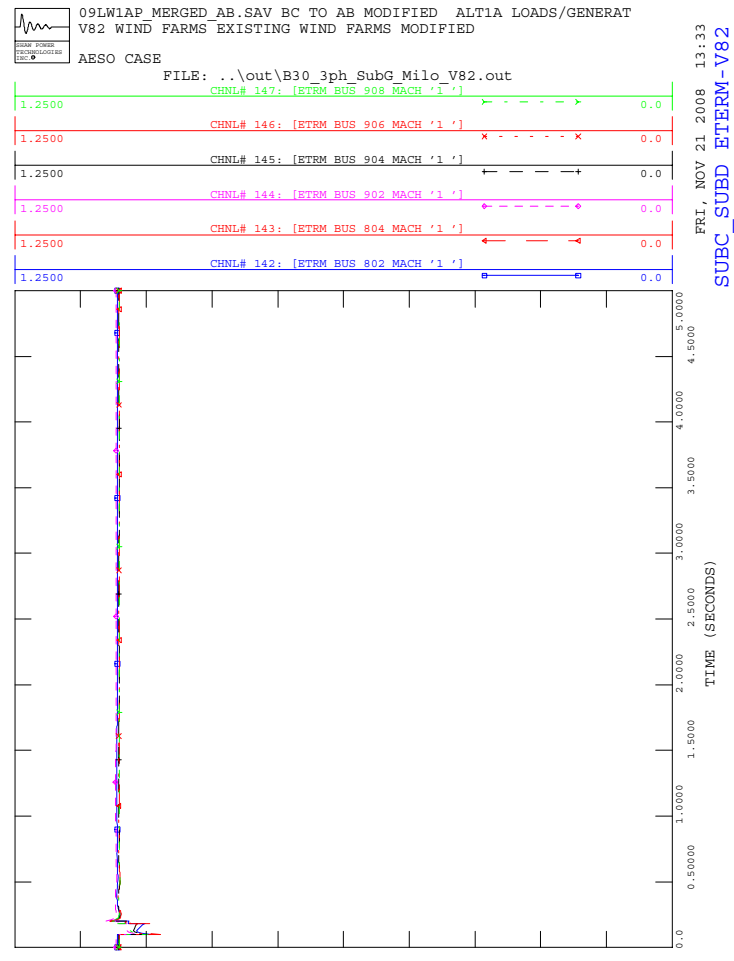
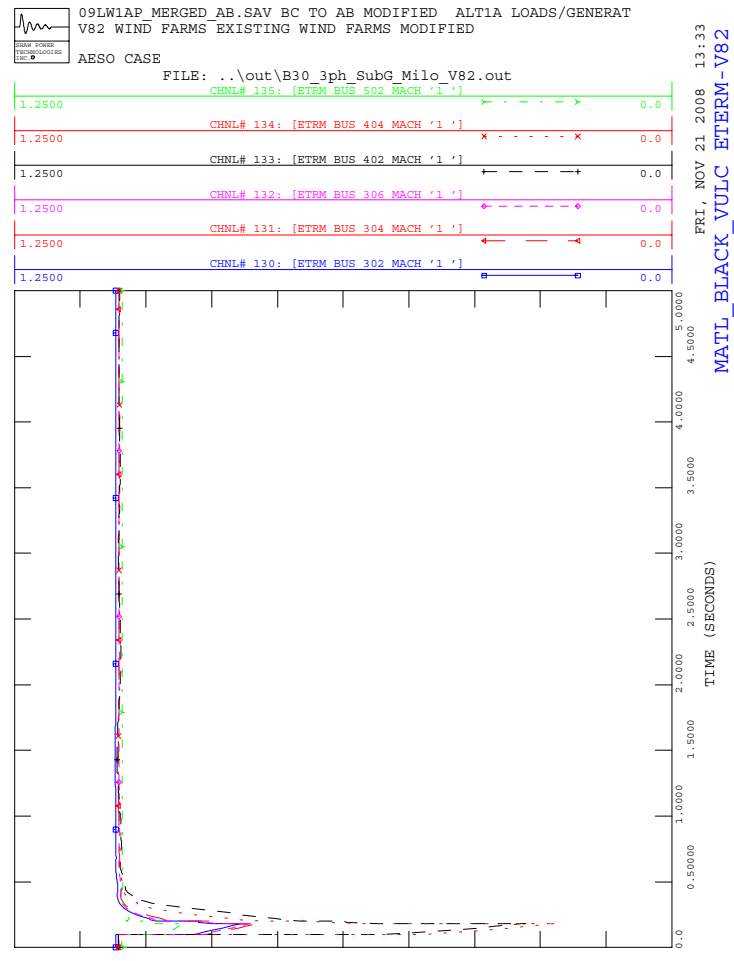
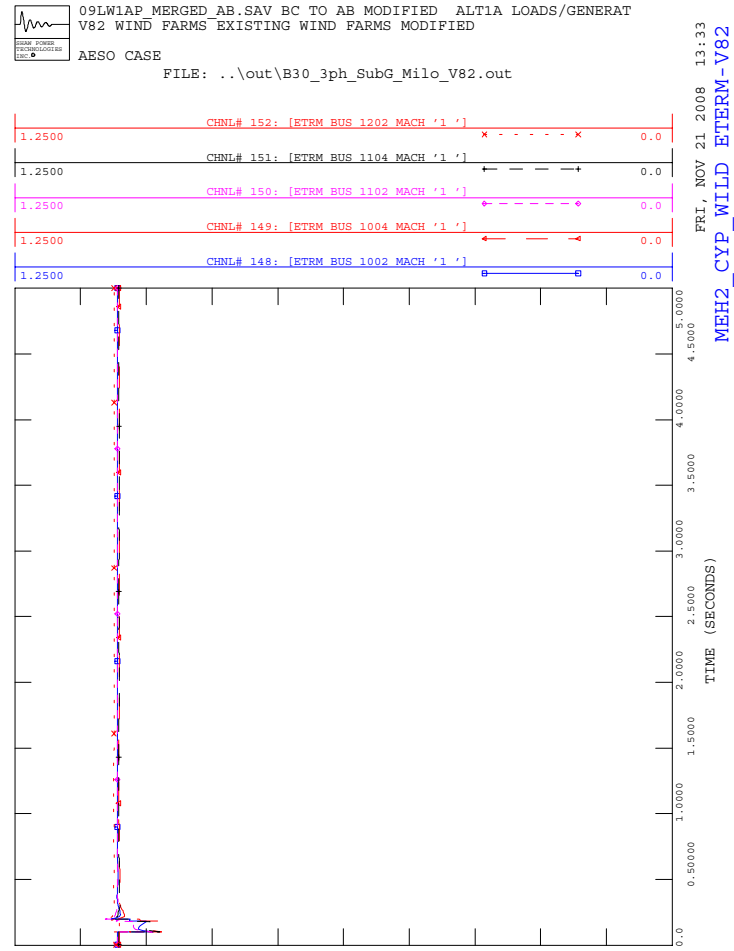
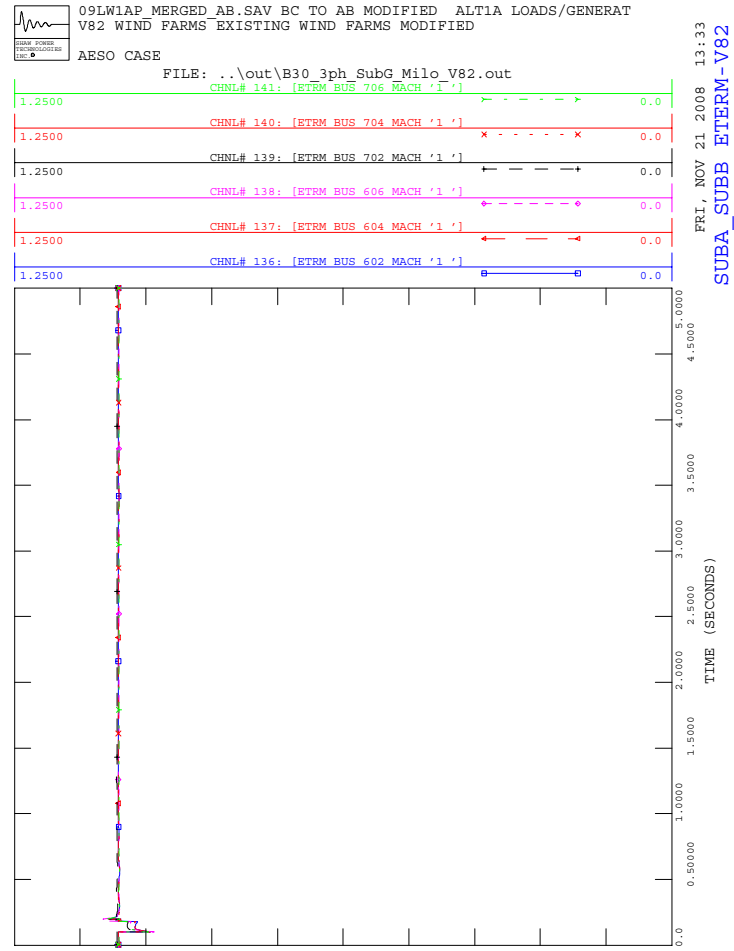


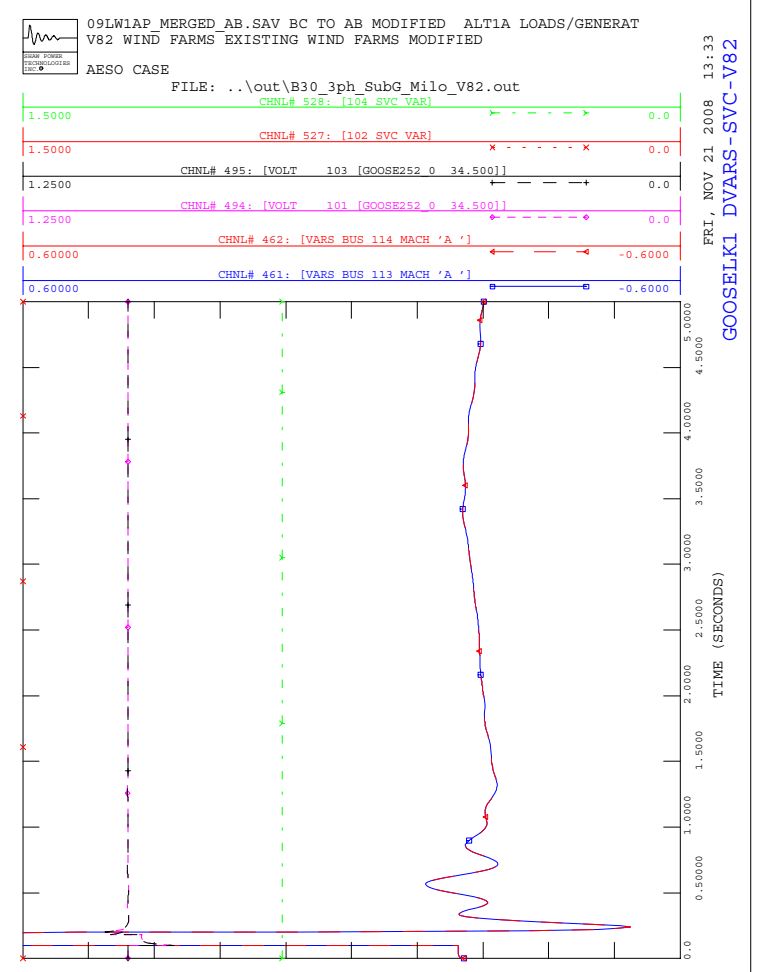
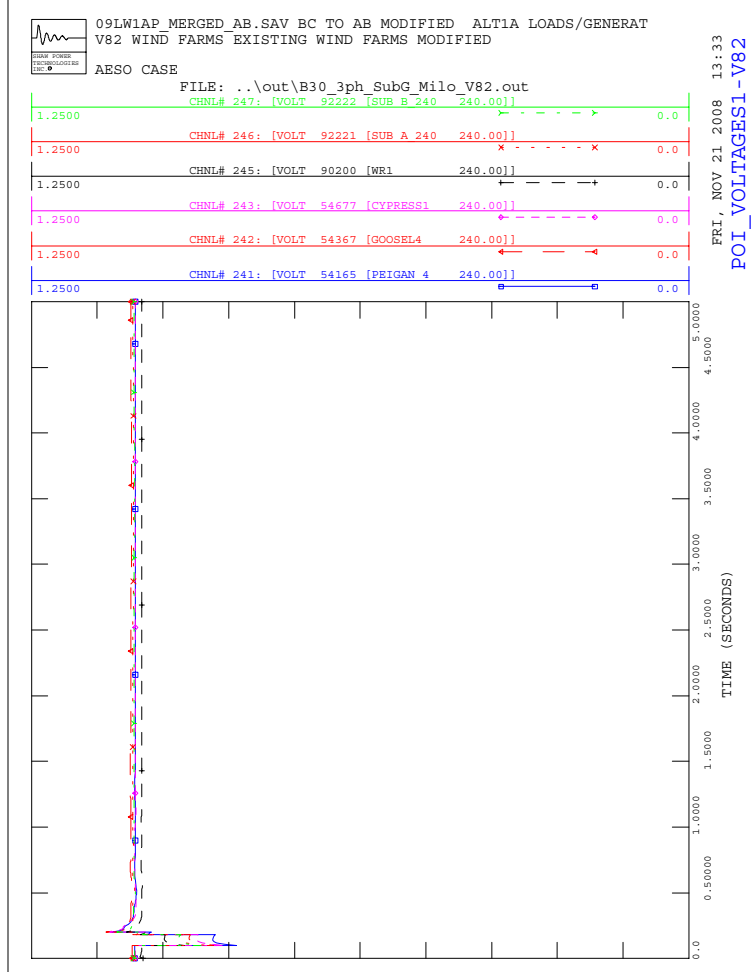
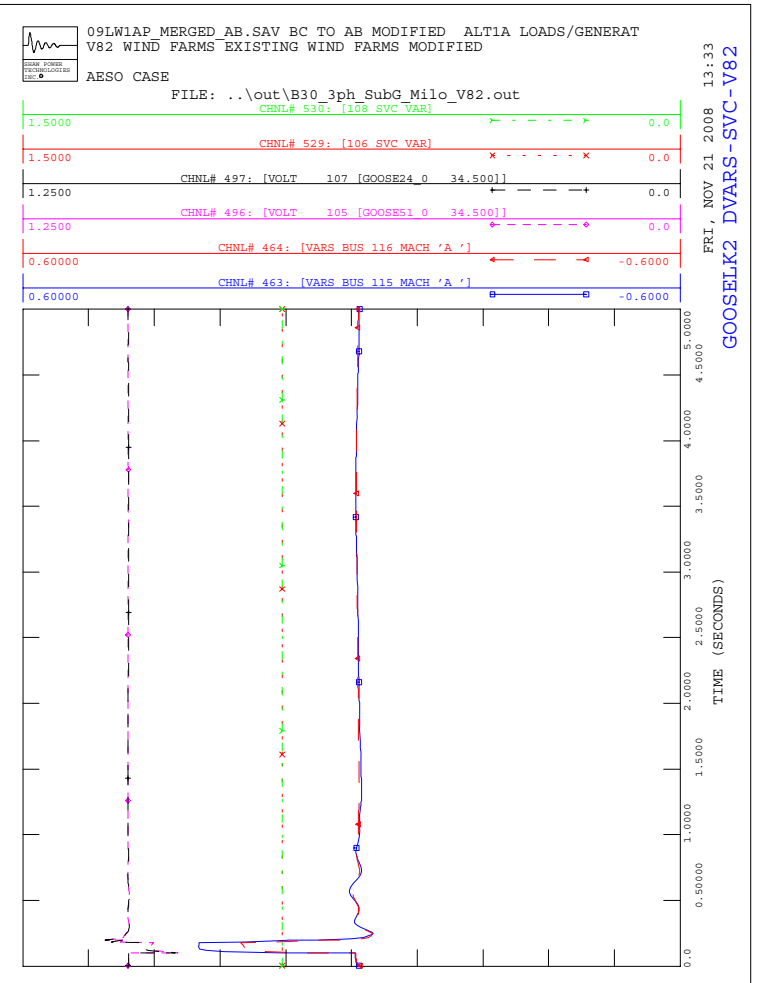
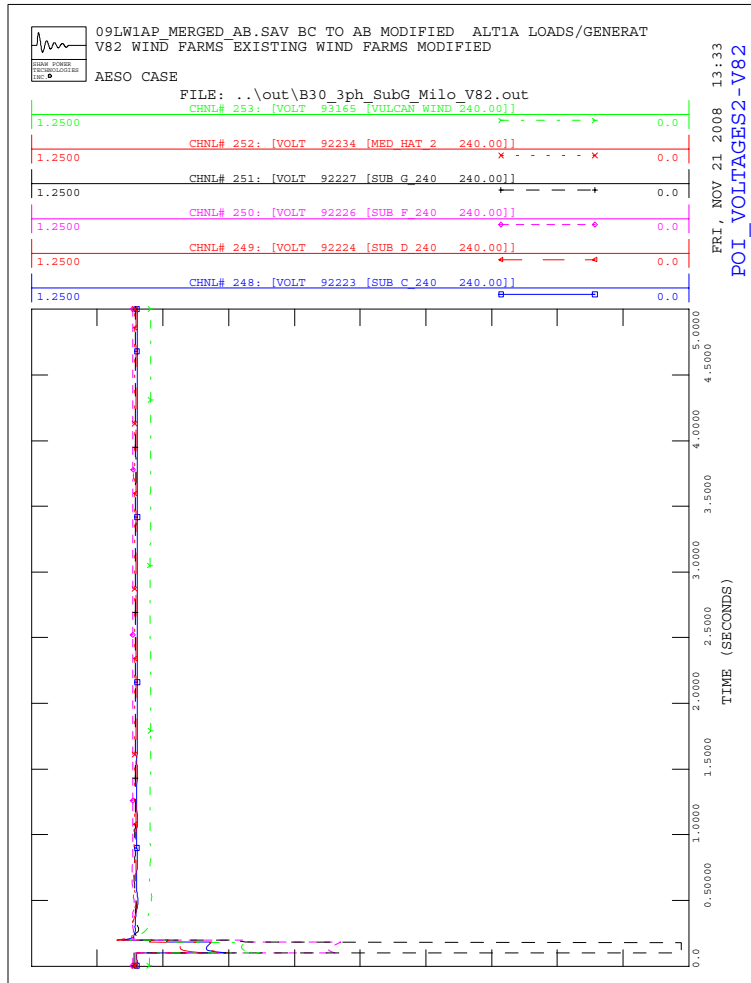


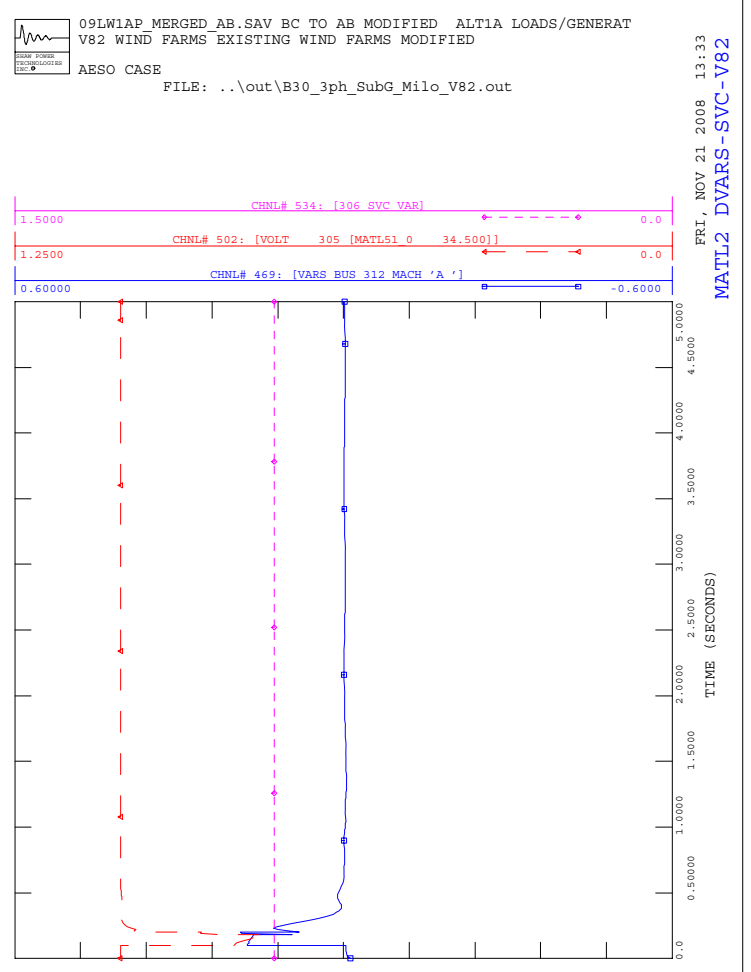
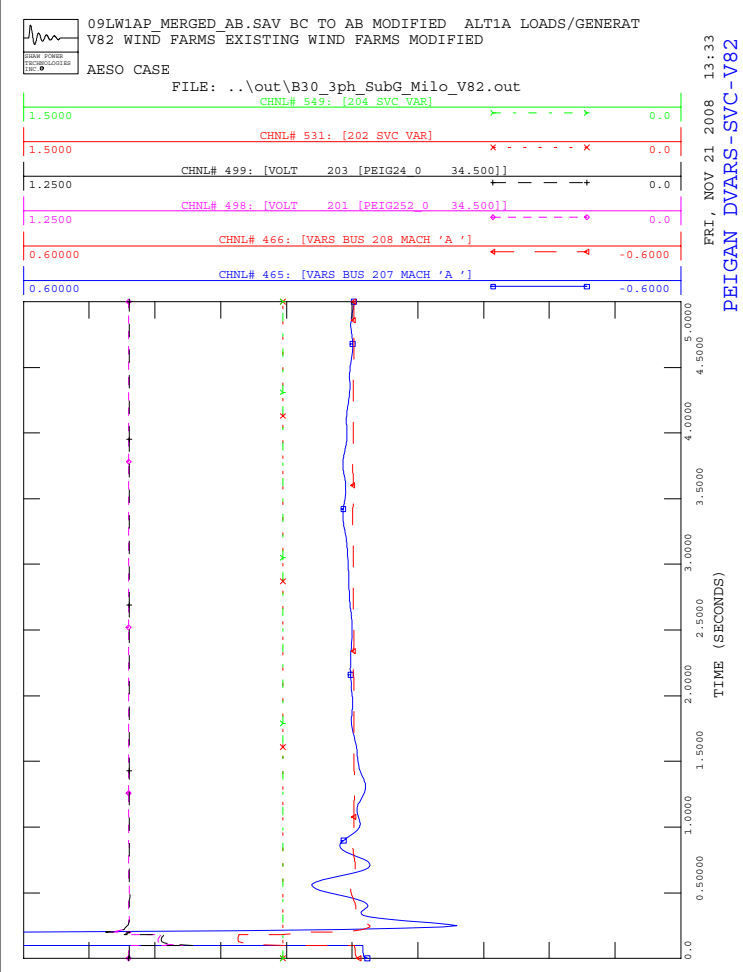
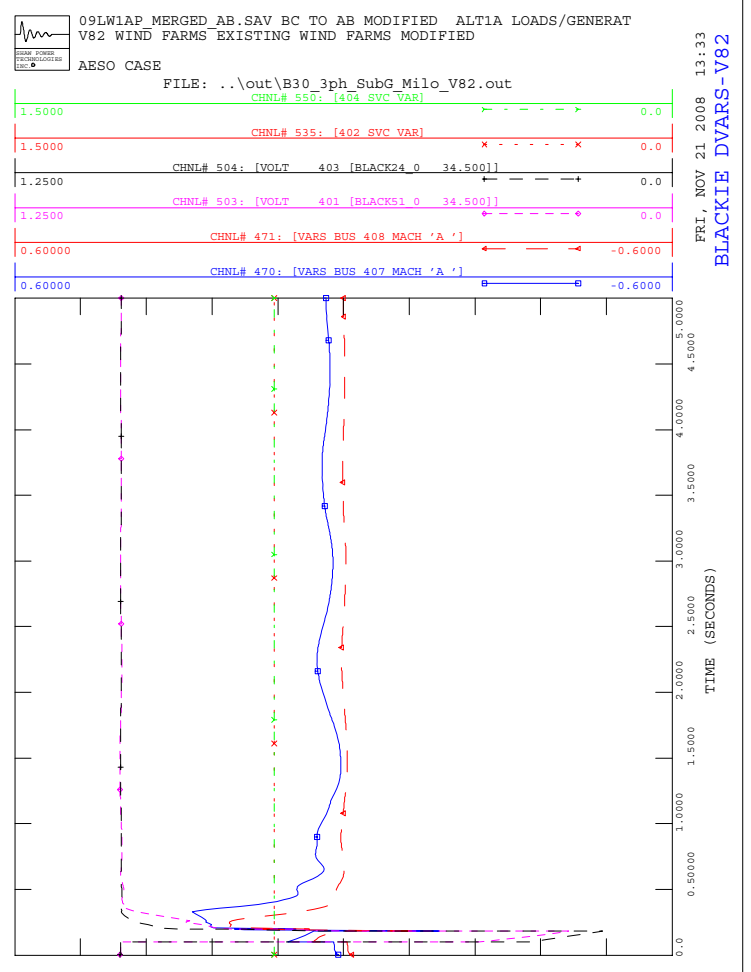
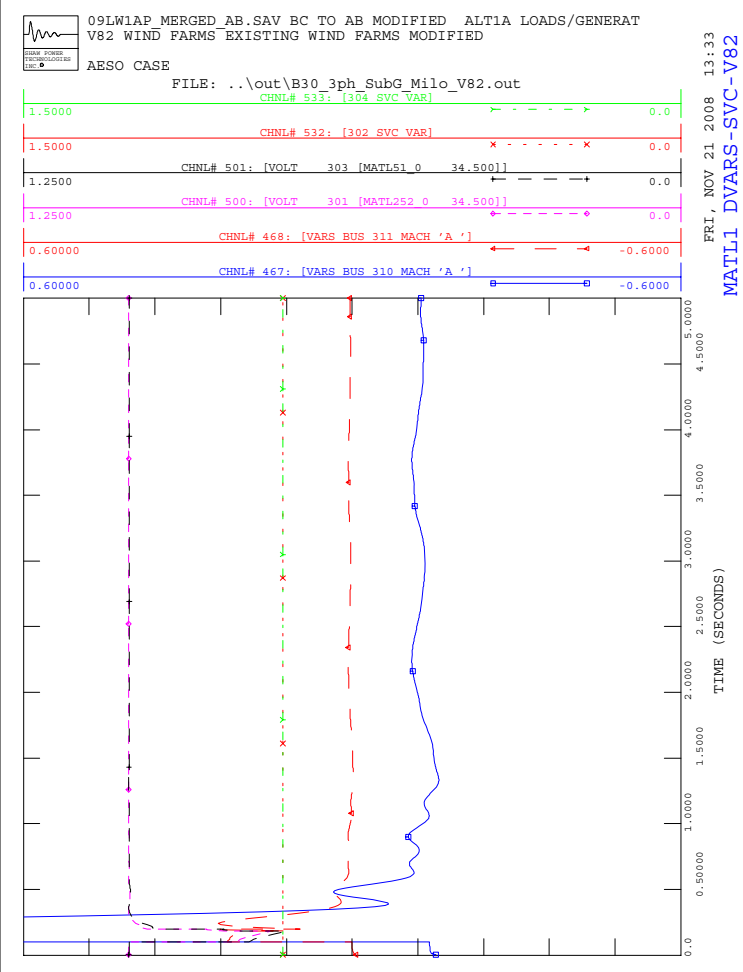


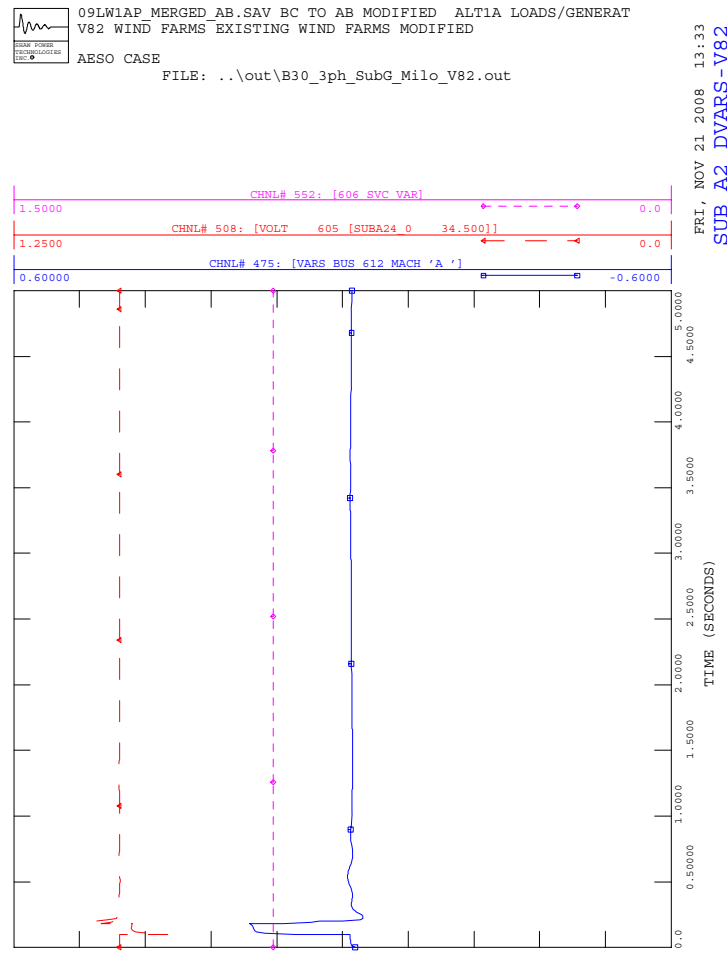
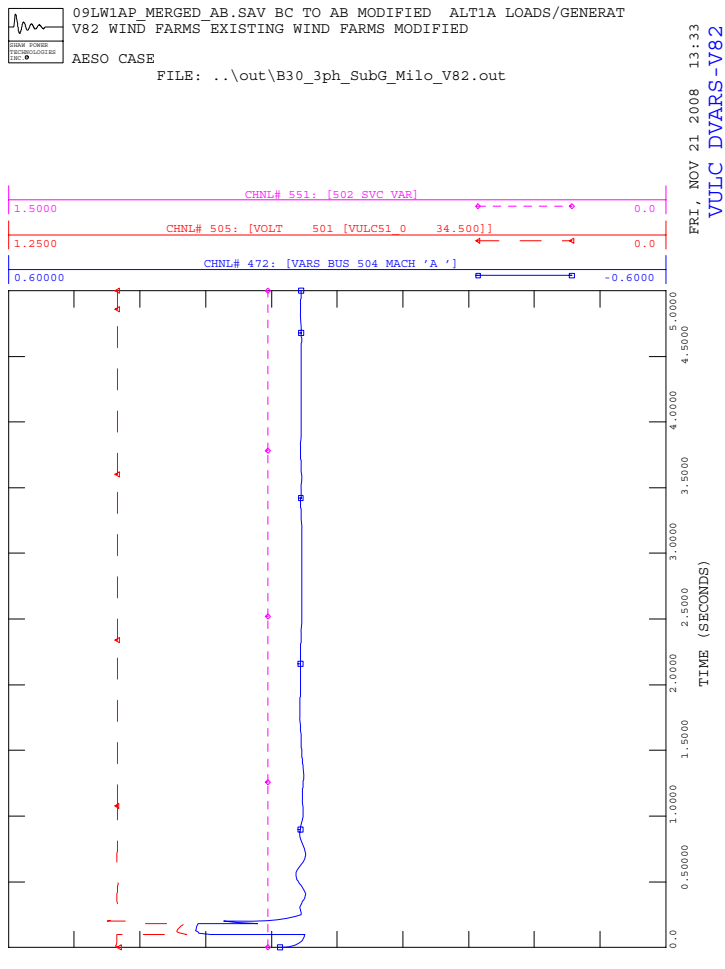
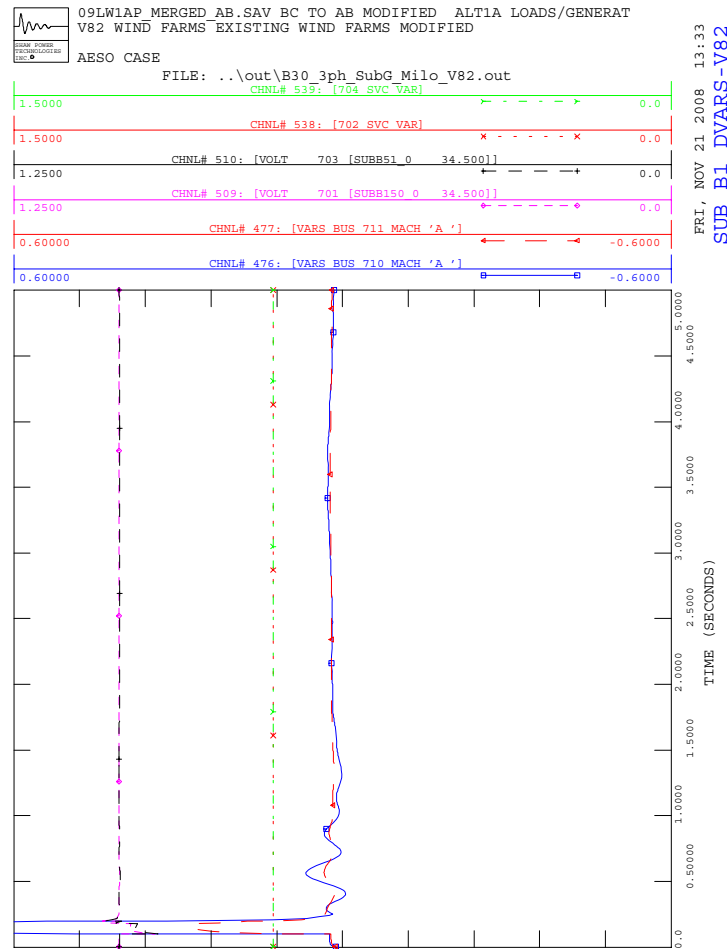
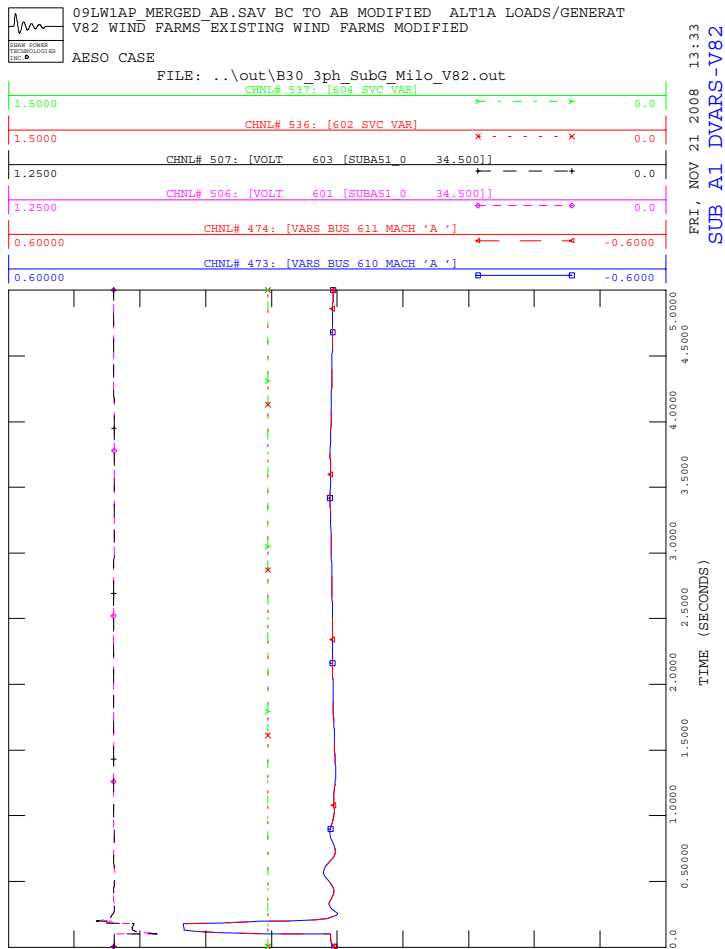


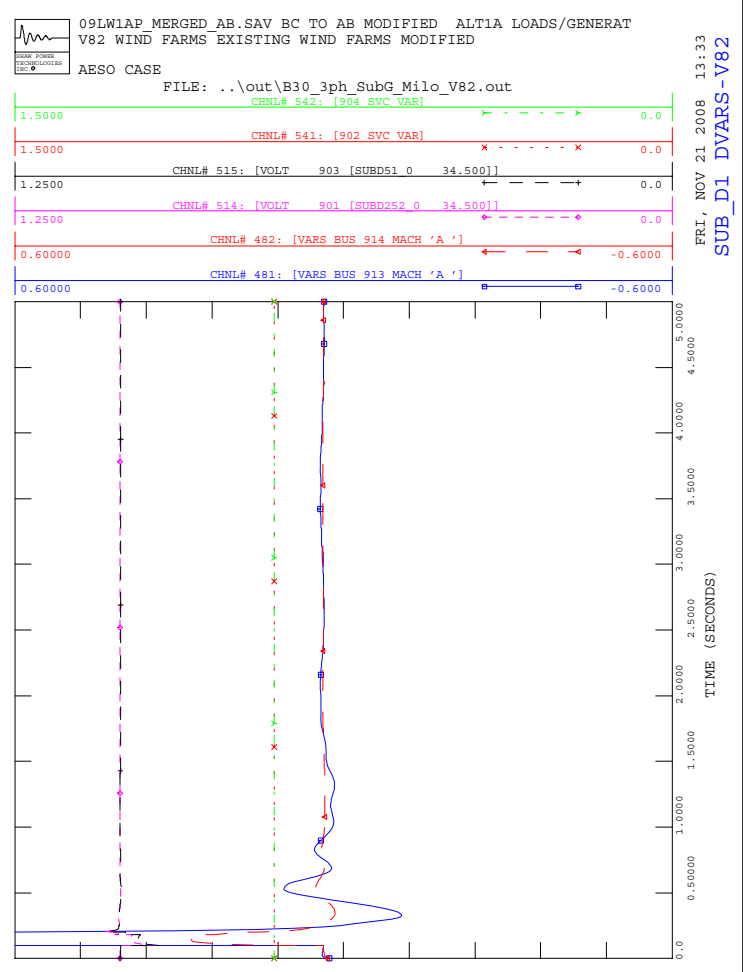
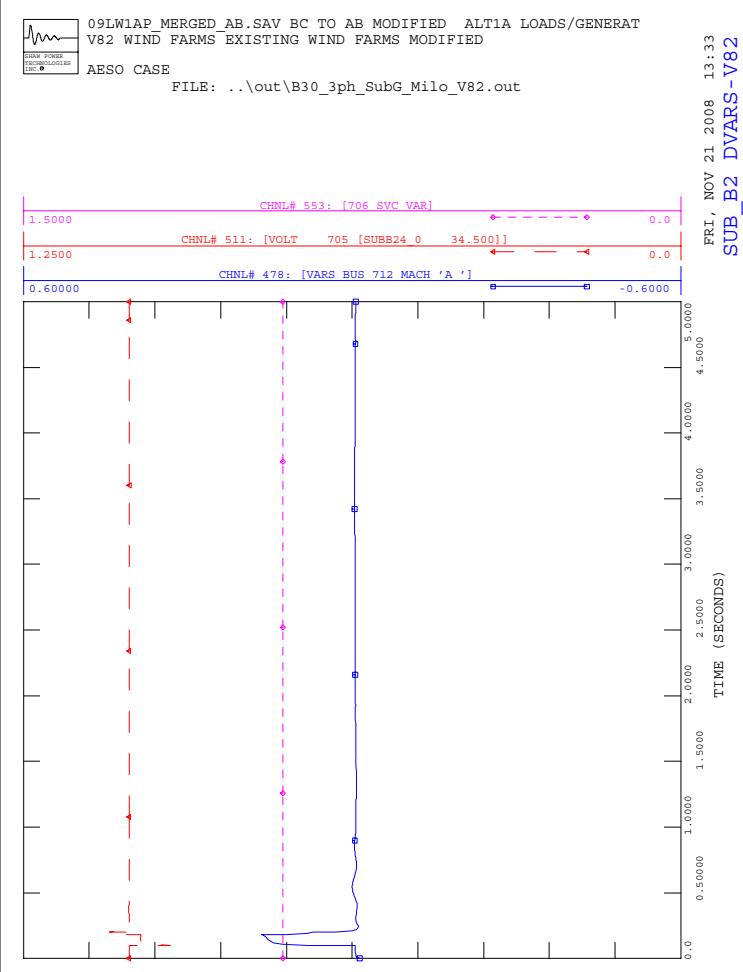
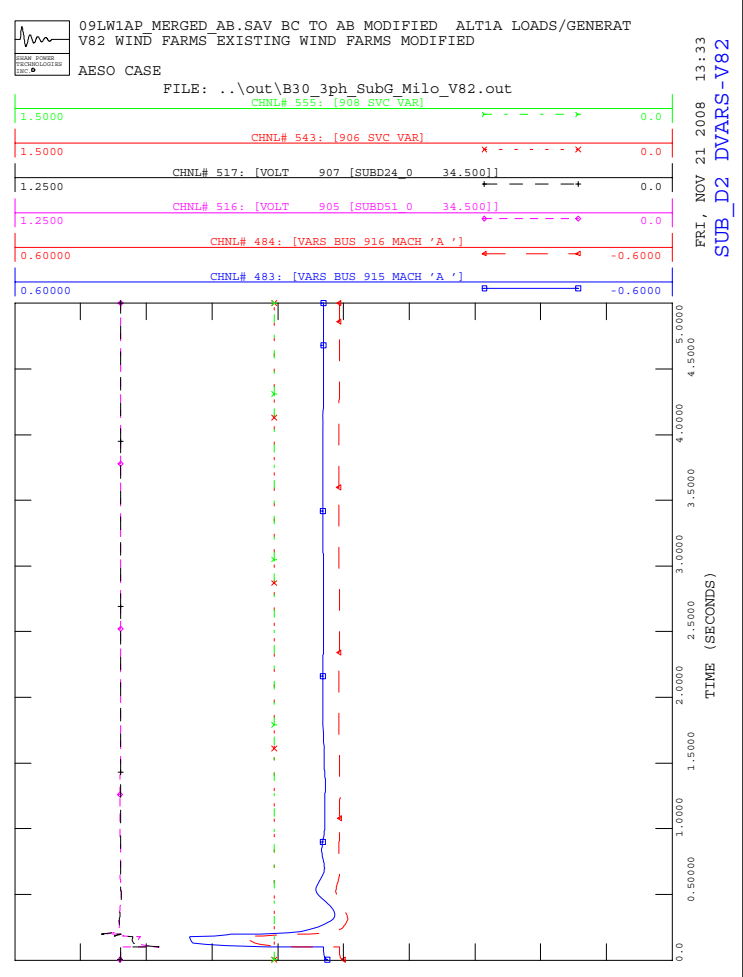
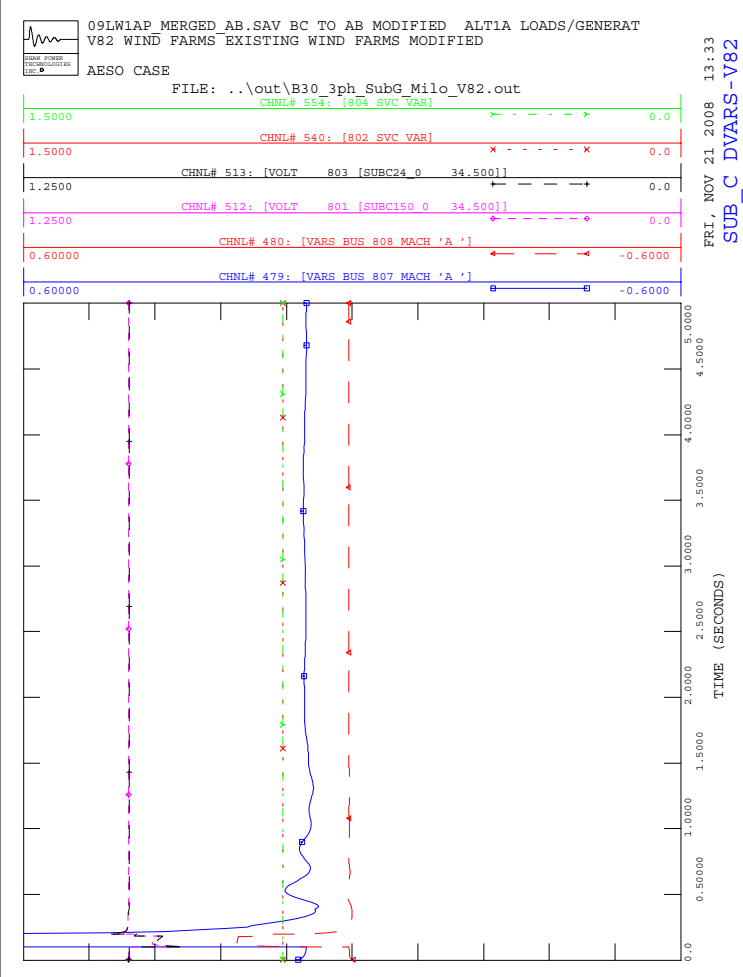


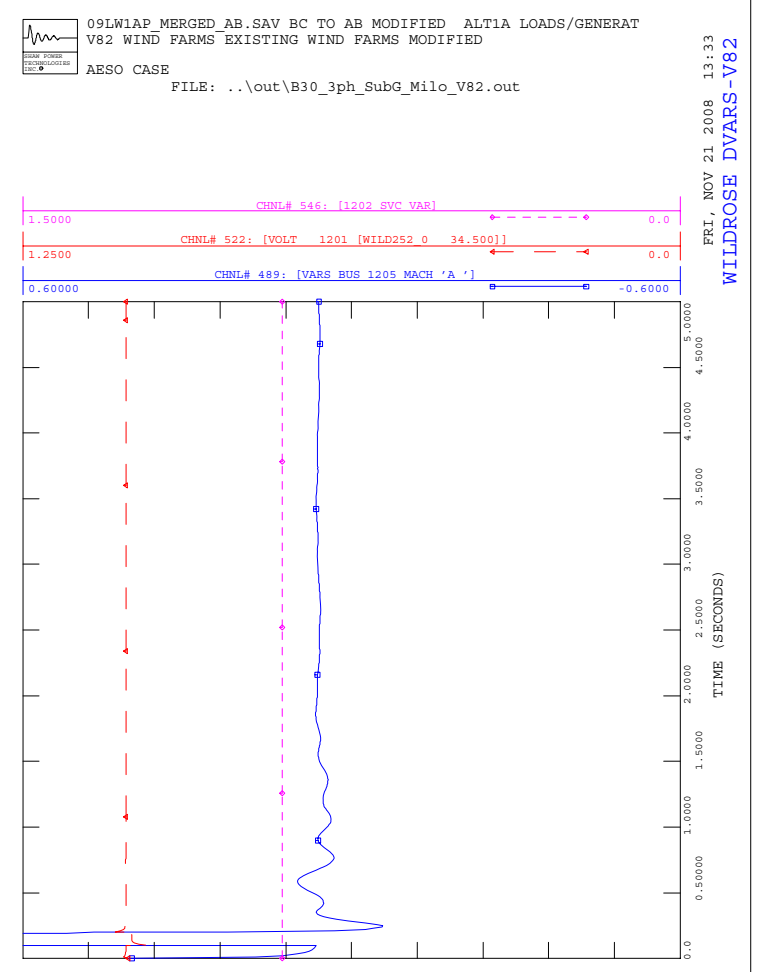
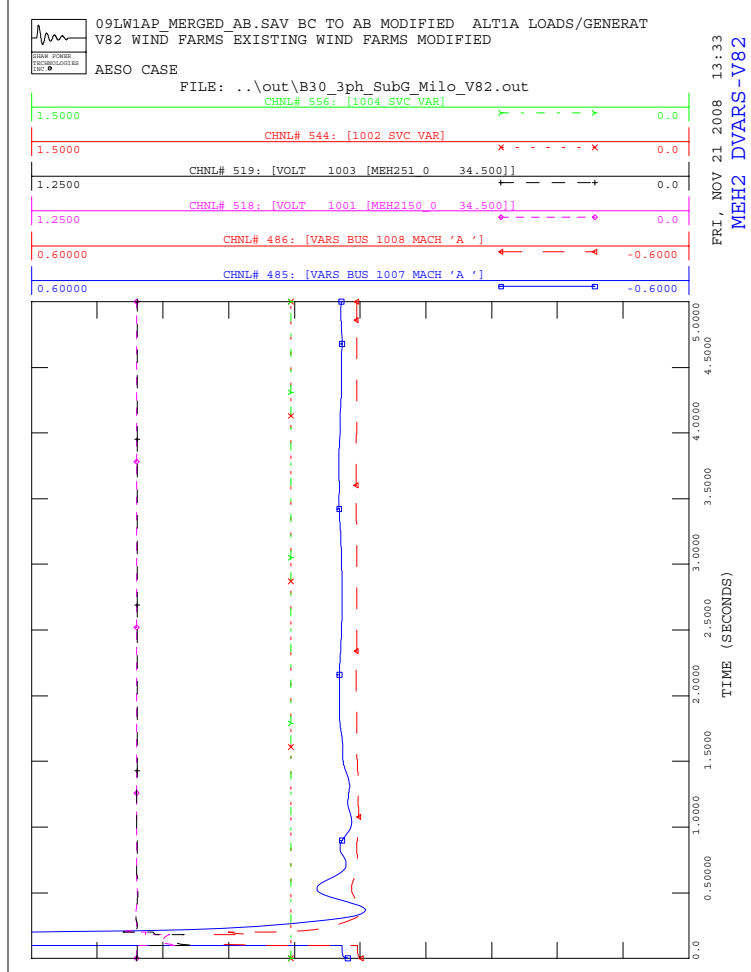
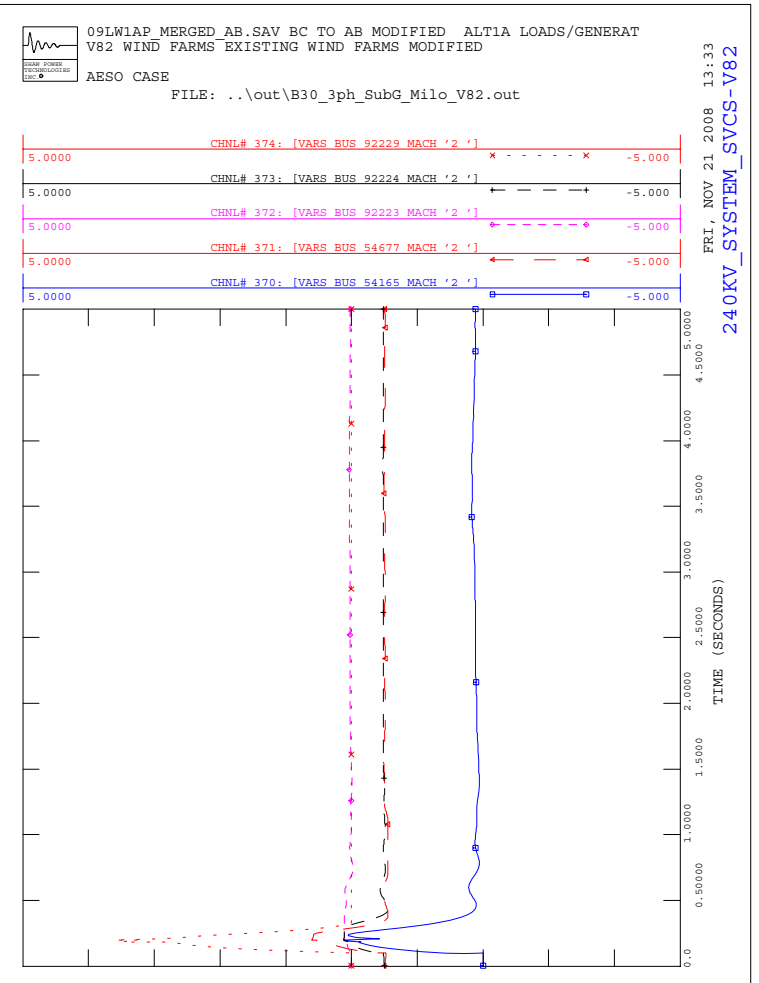
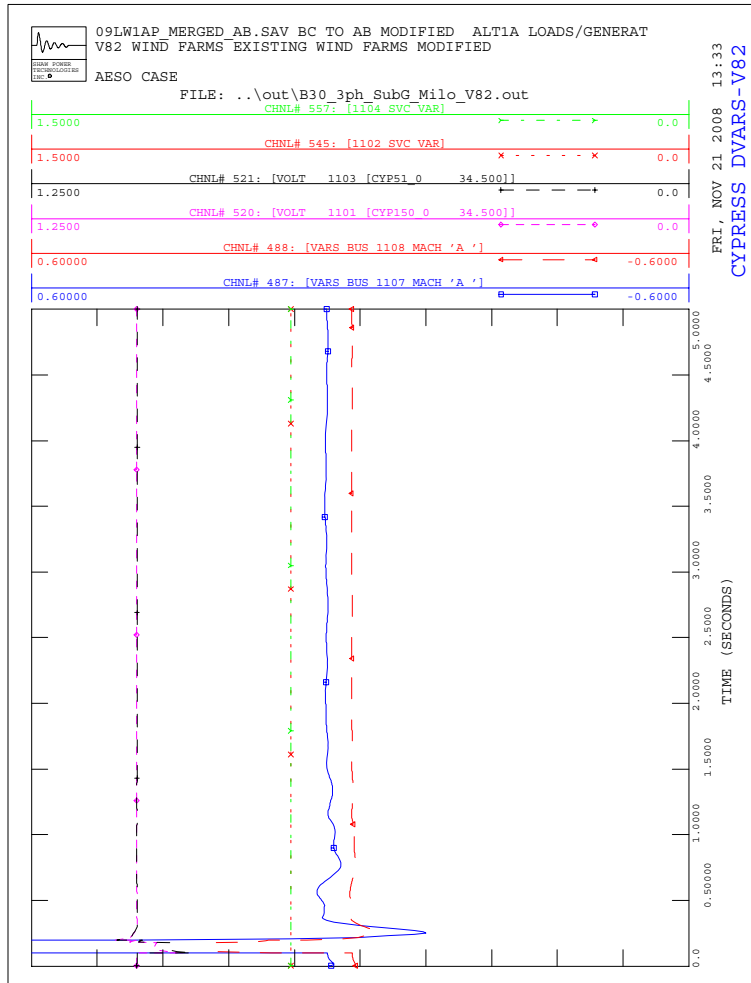












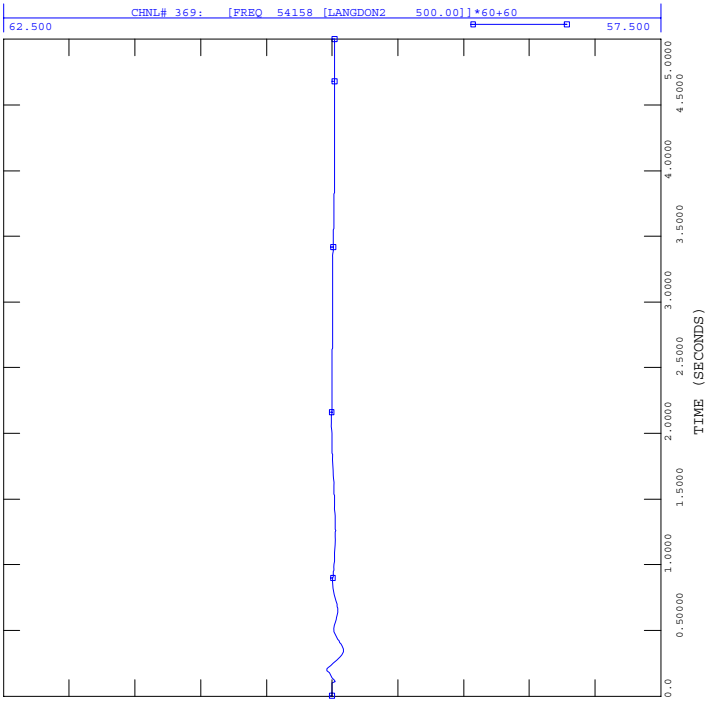


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B30_3ph_SubG_Milo_V82.out

FRI, NOV 21 2008 13:33
LANGDON_FRQ-V82

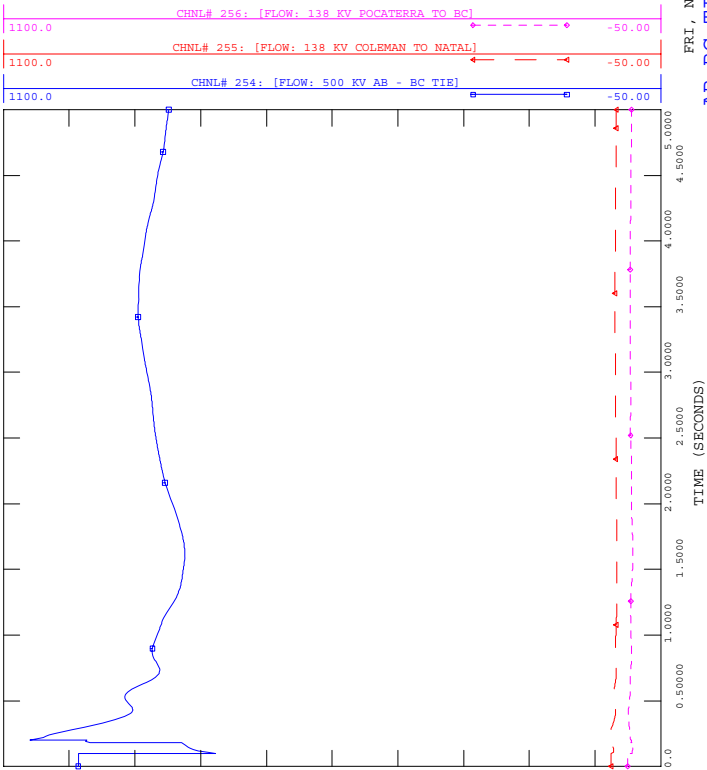


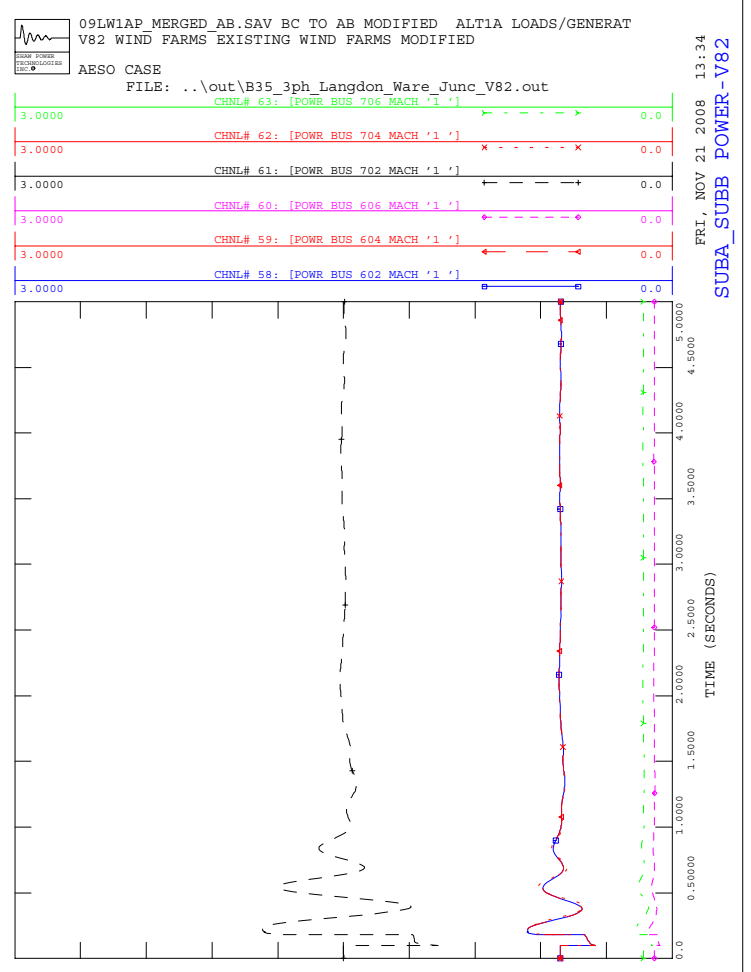
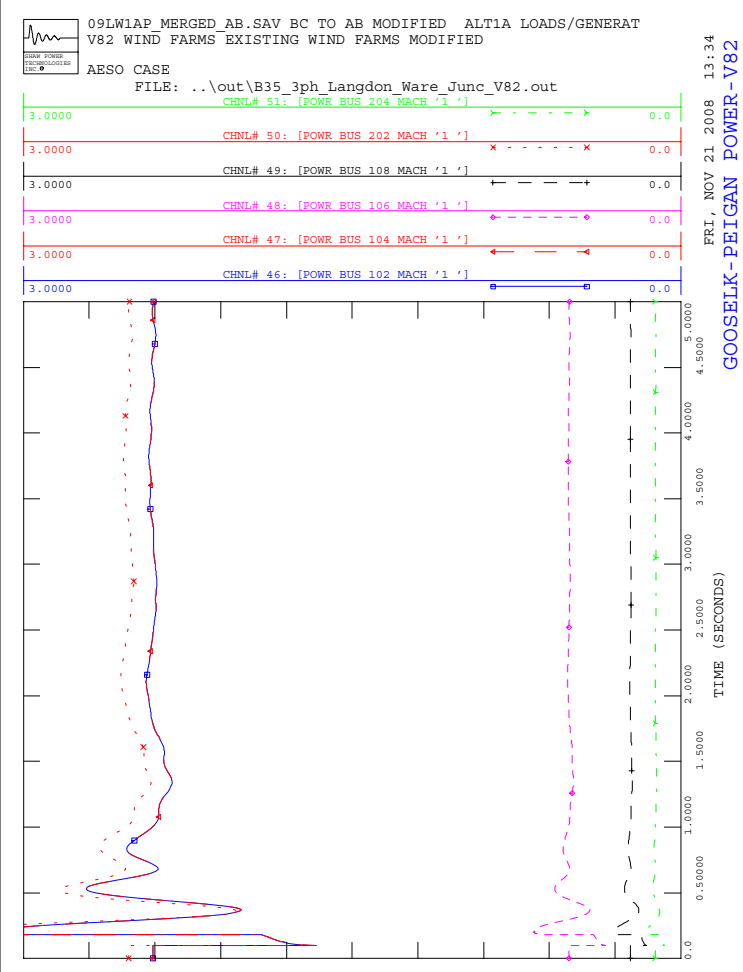
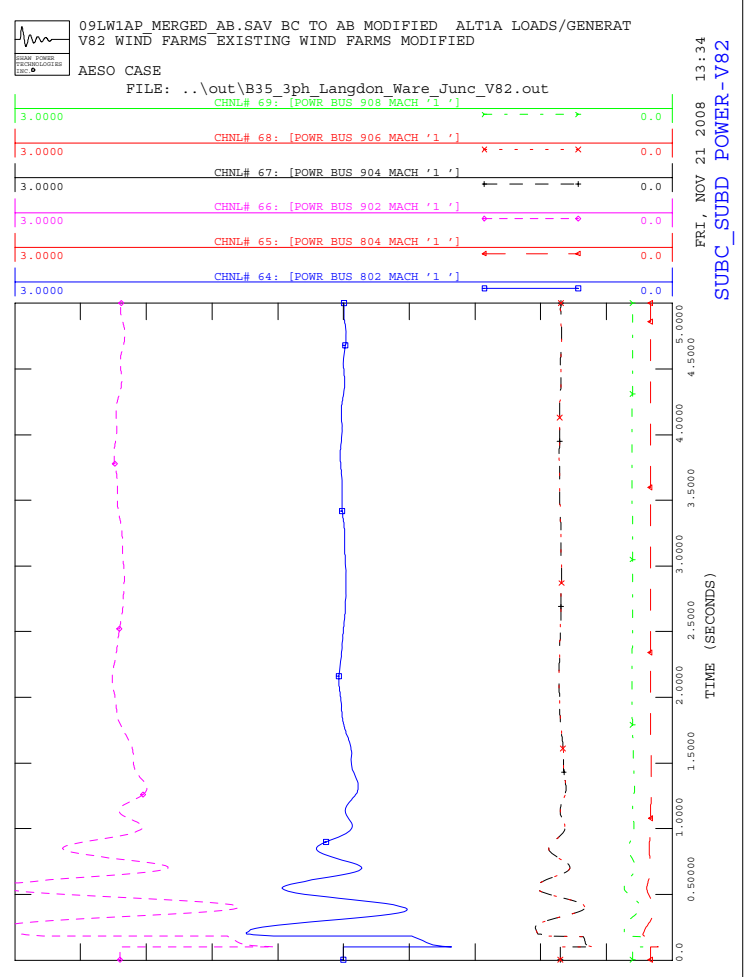
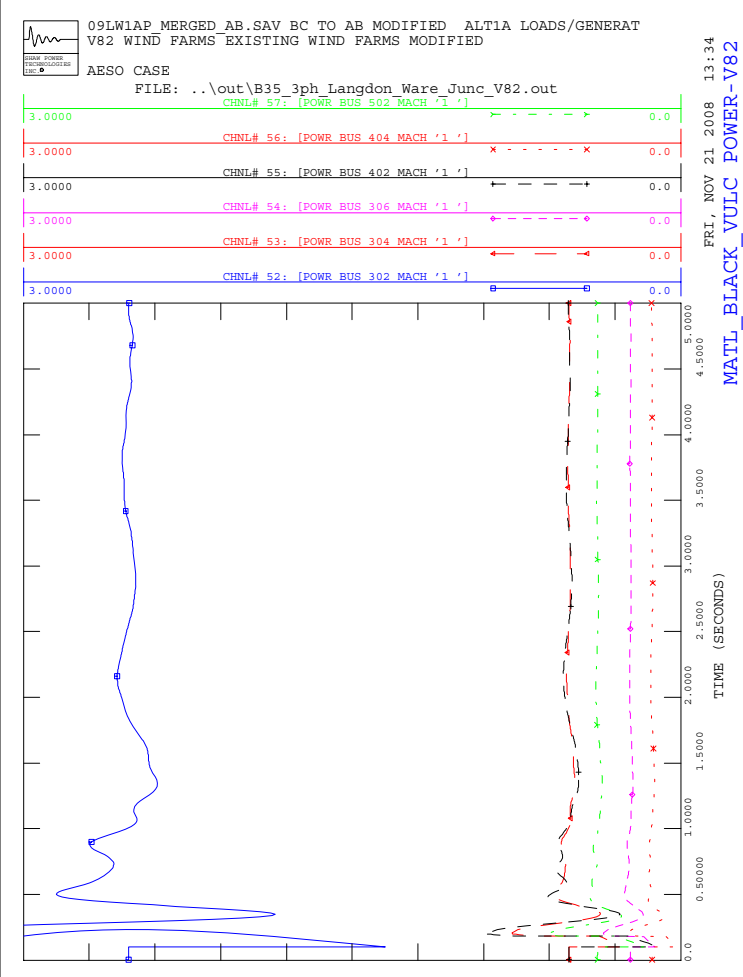
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

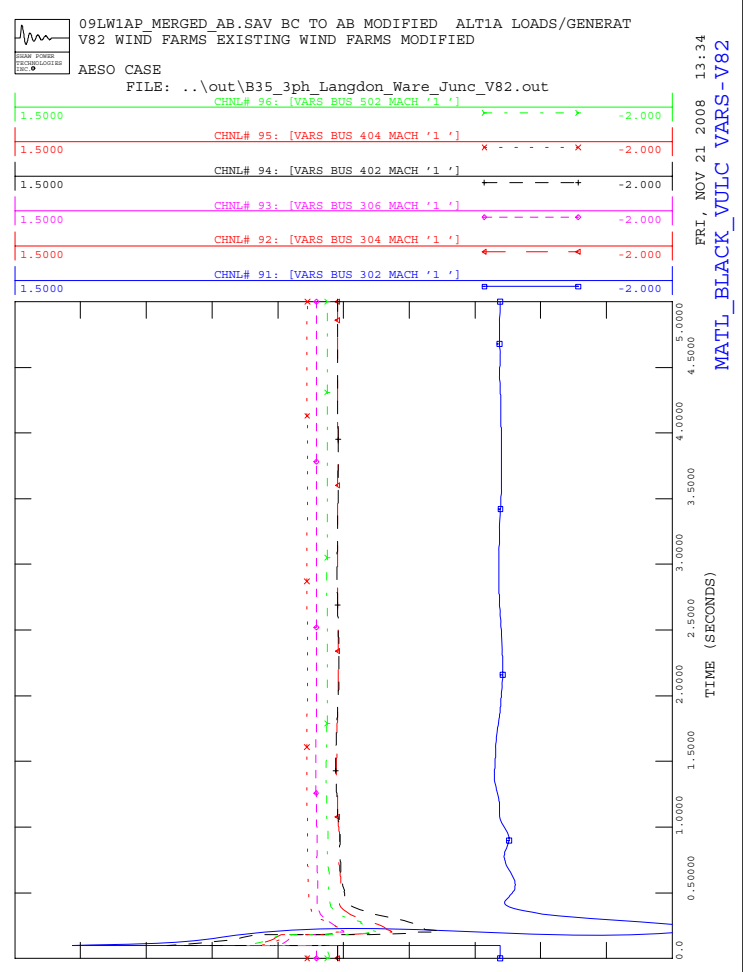
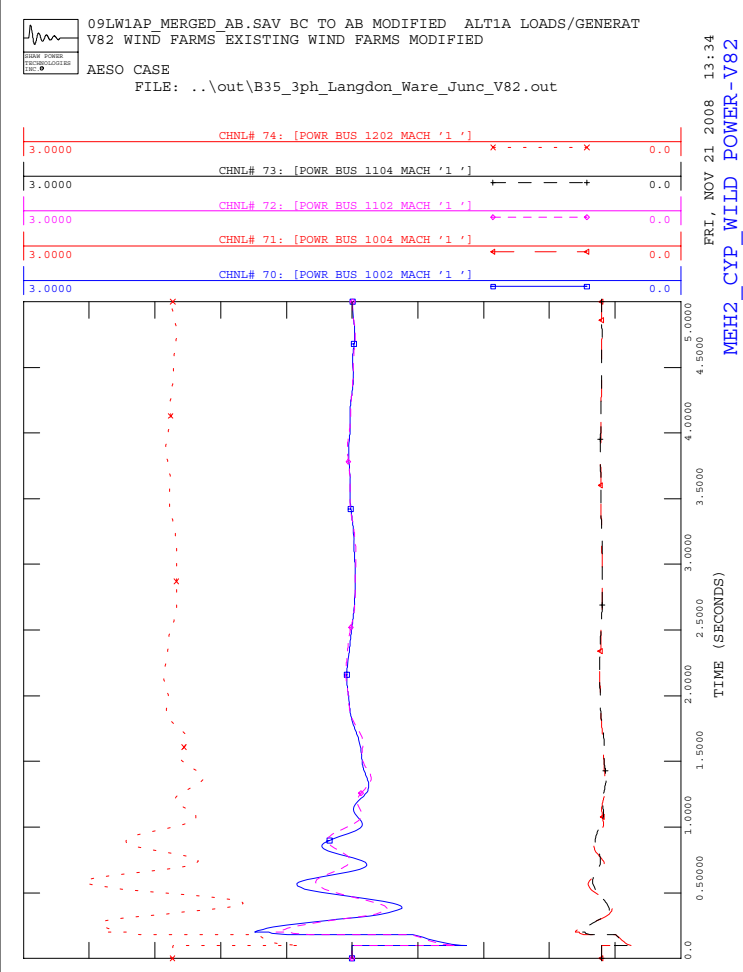
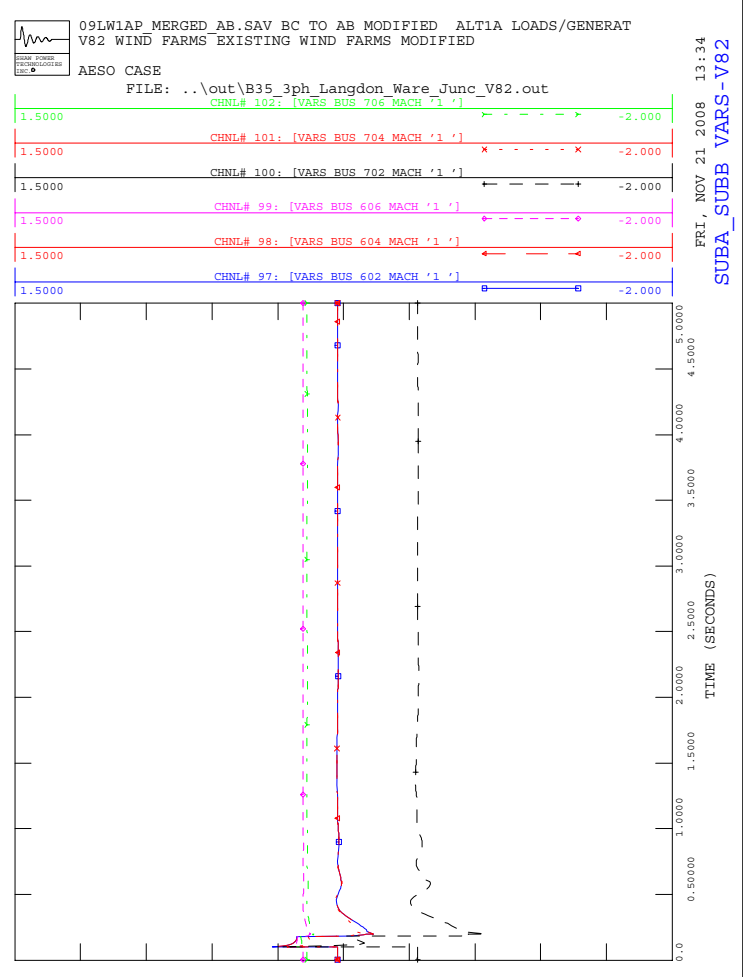
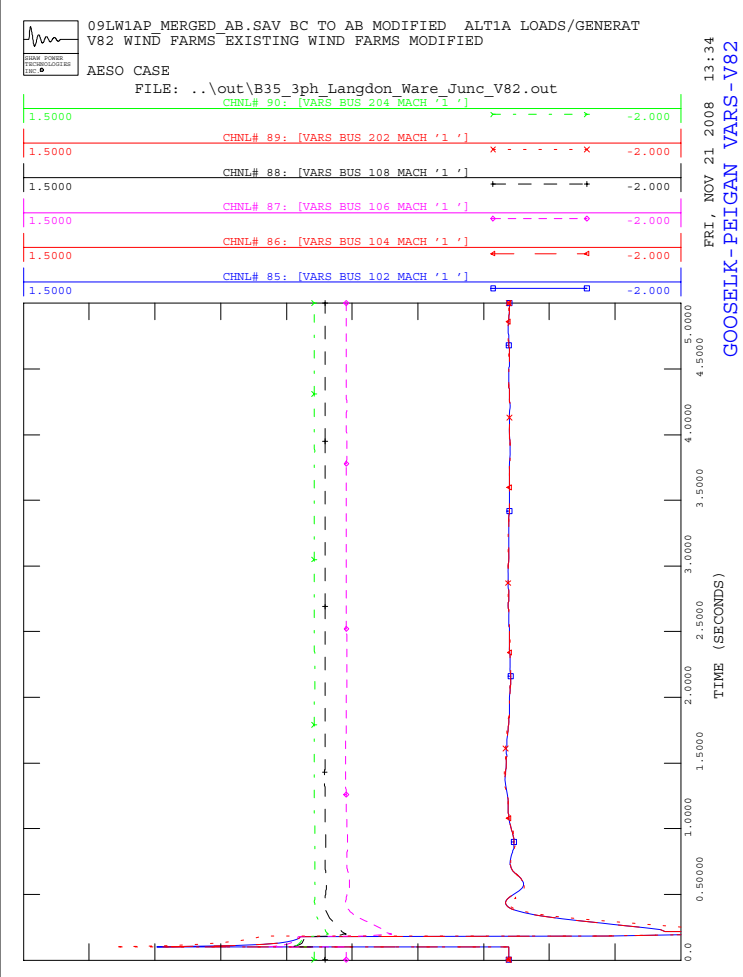
ABSO CASE

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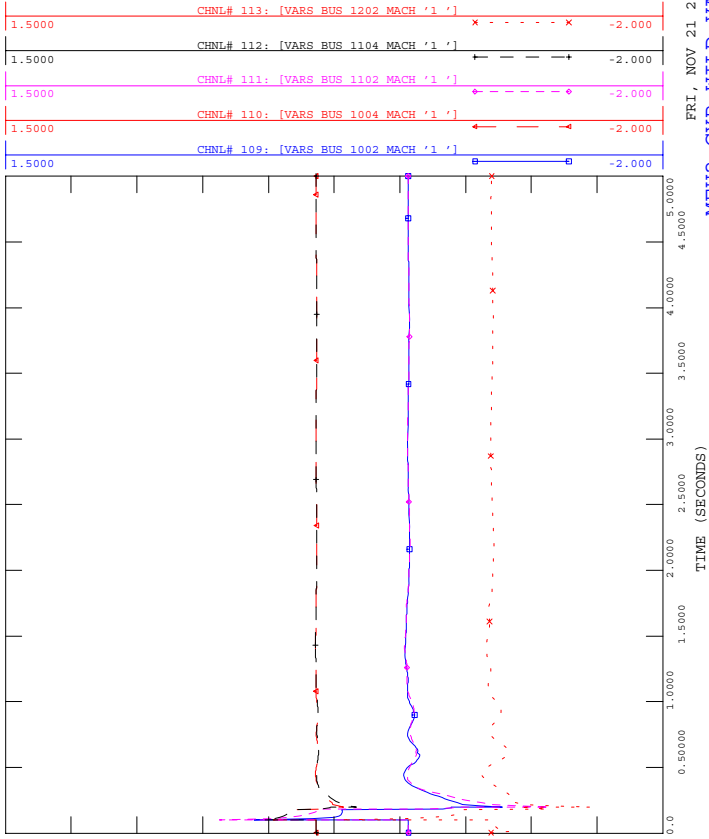
FRI, NOV 21 2008 13:33
AB_BC_TIE_FLOWS-V82





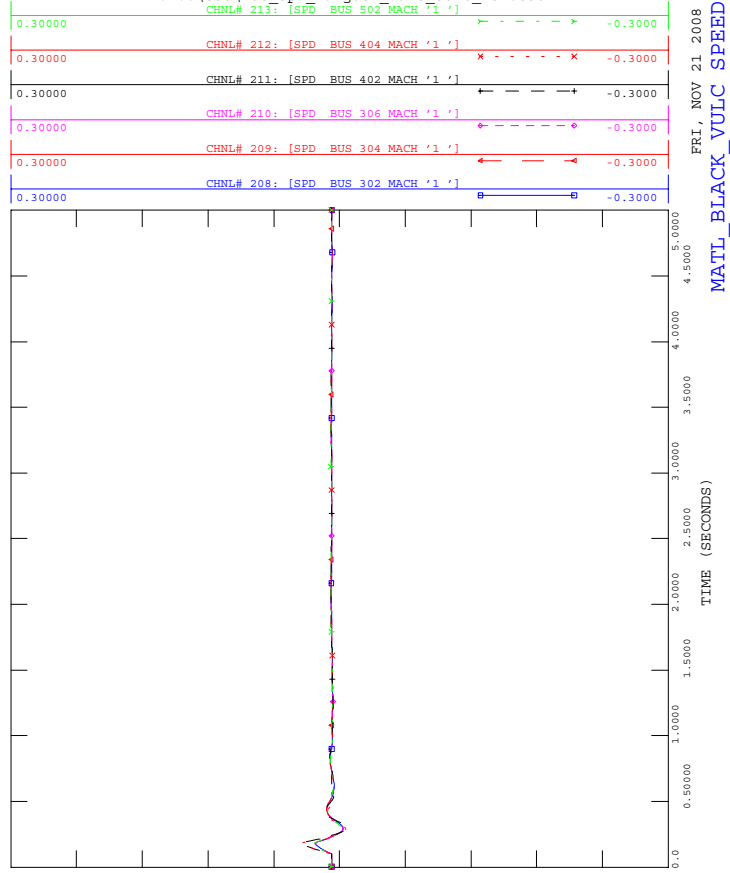


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE
 FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out



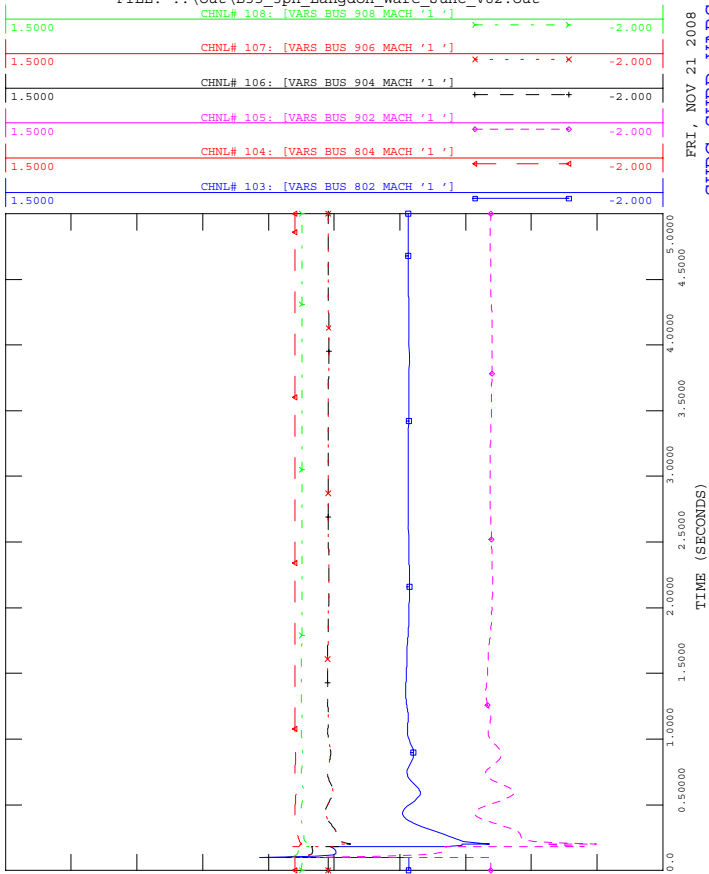
FRI, NOV 21 2008 13:34

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 AESO CASE
 FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out



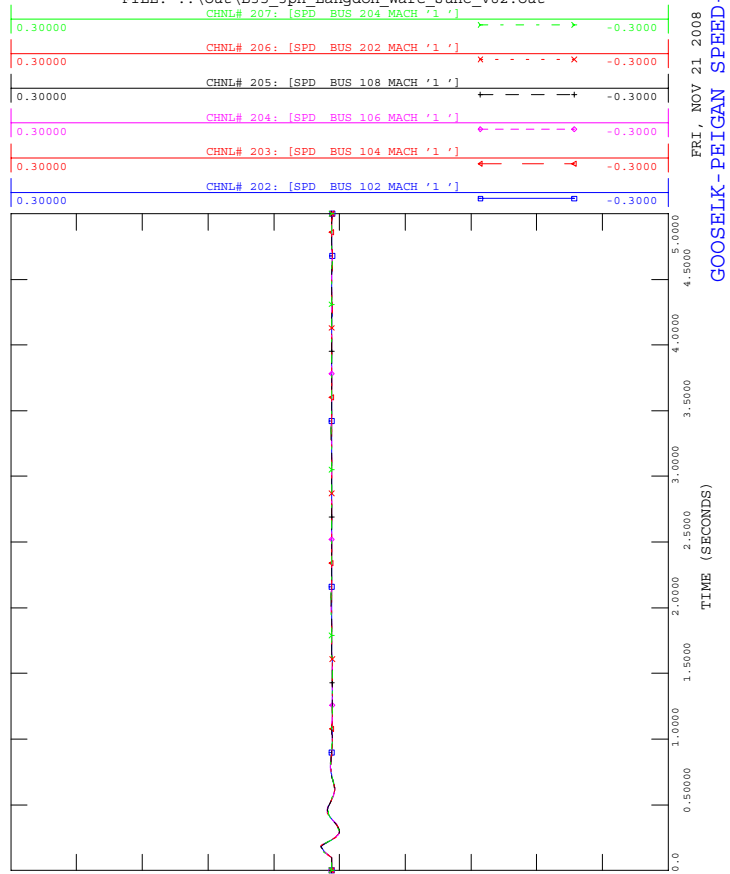
FRI, NOV 21 2008 13:34

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 AESO CASE
 FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out

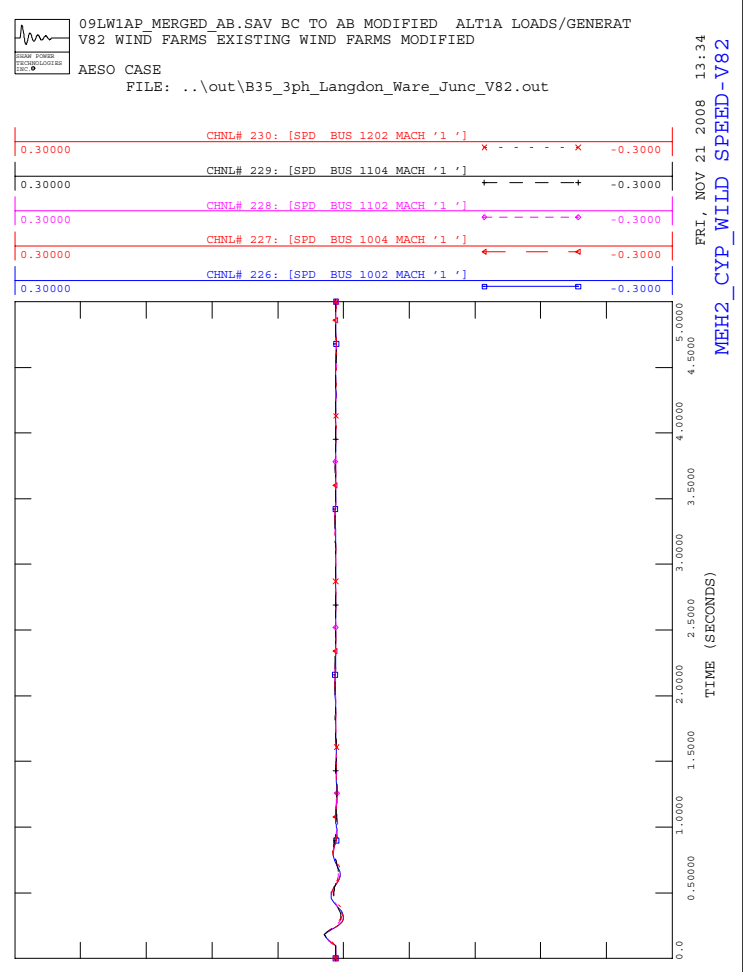
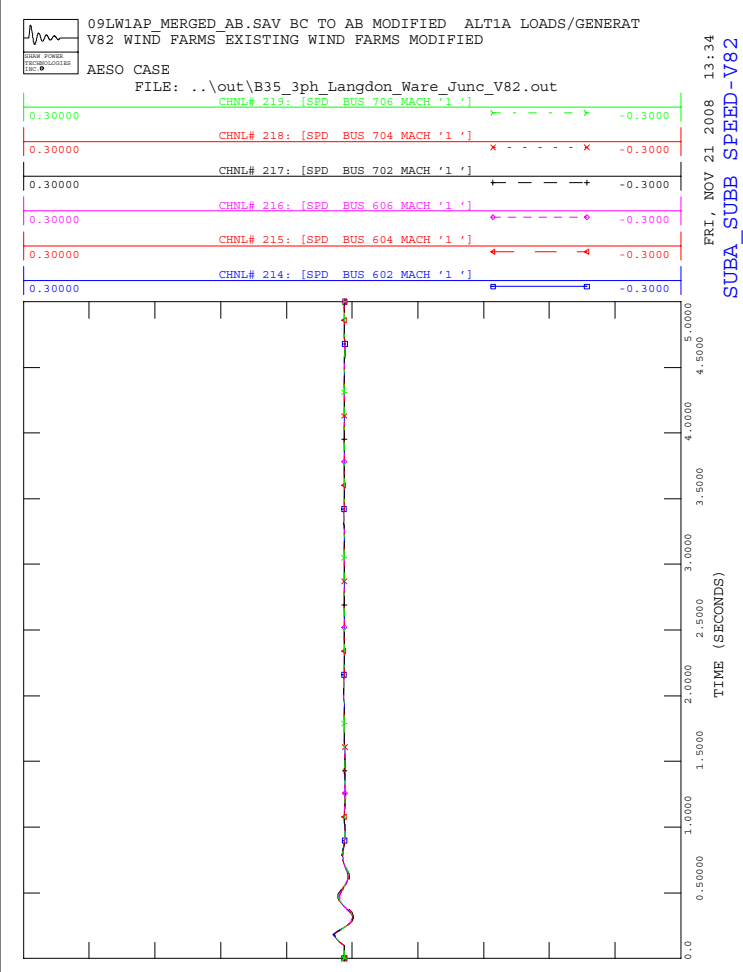
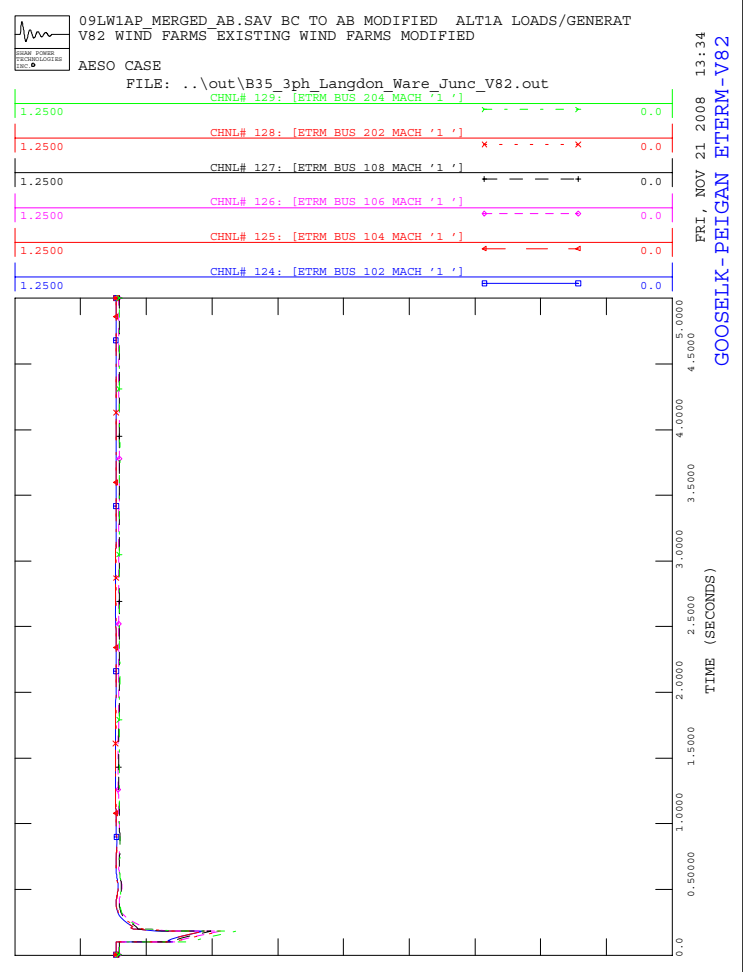
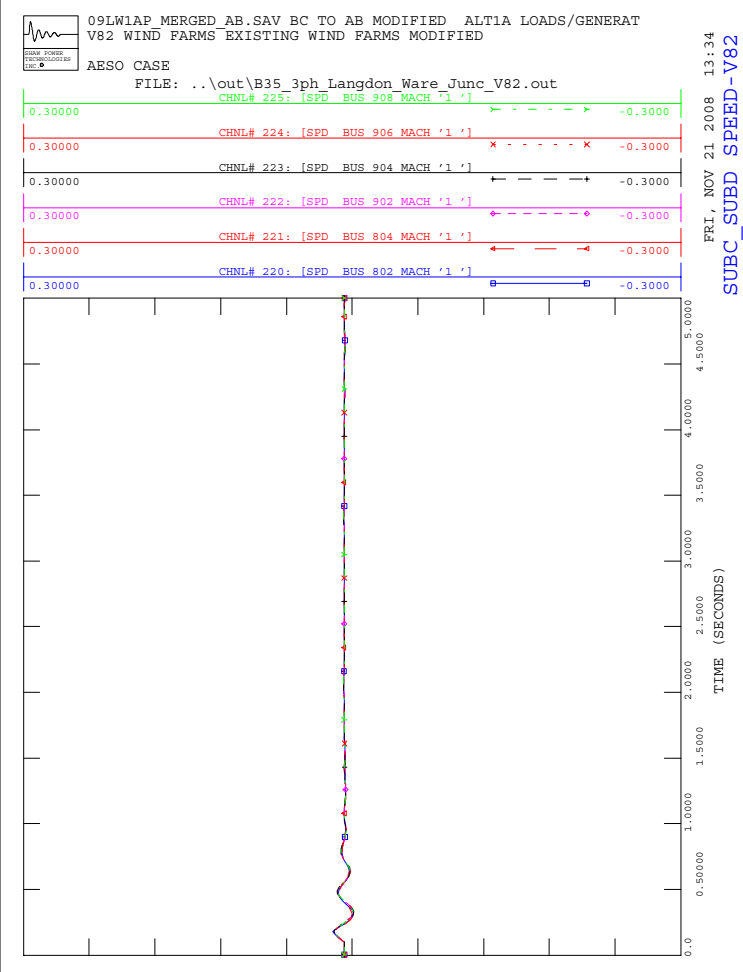


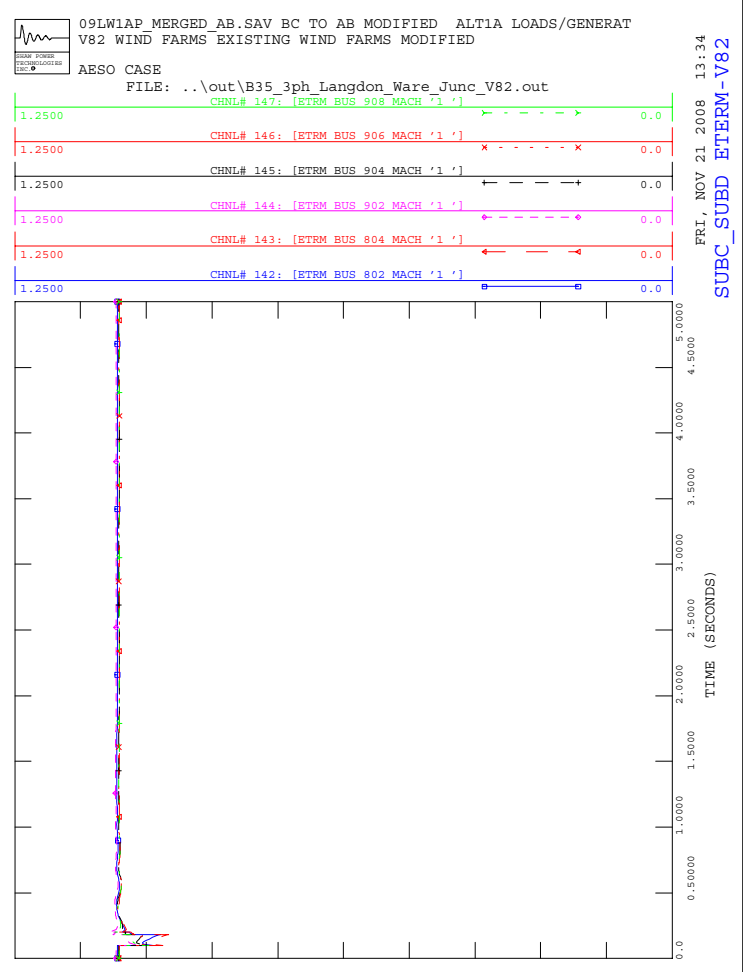
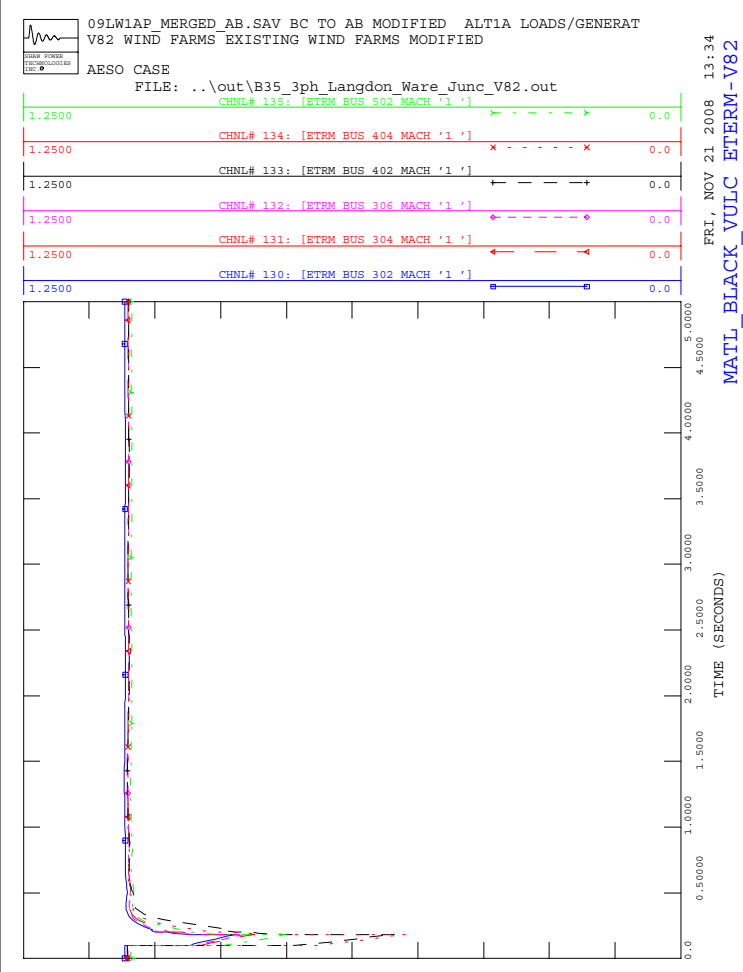
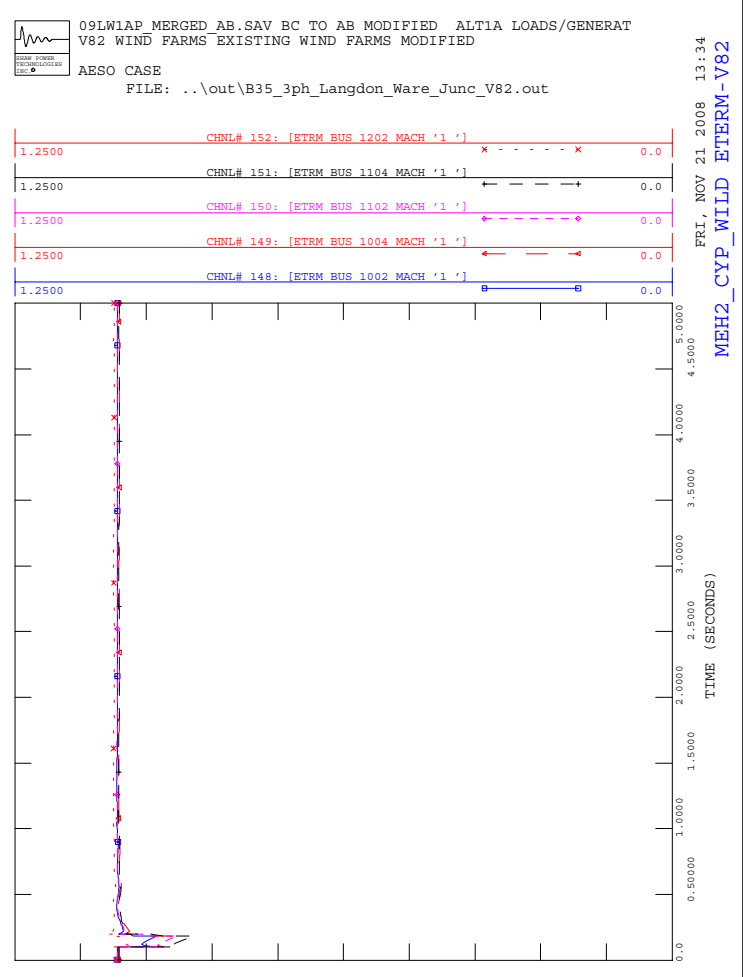
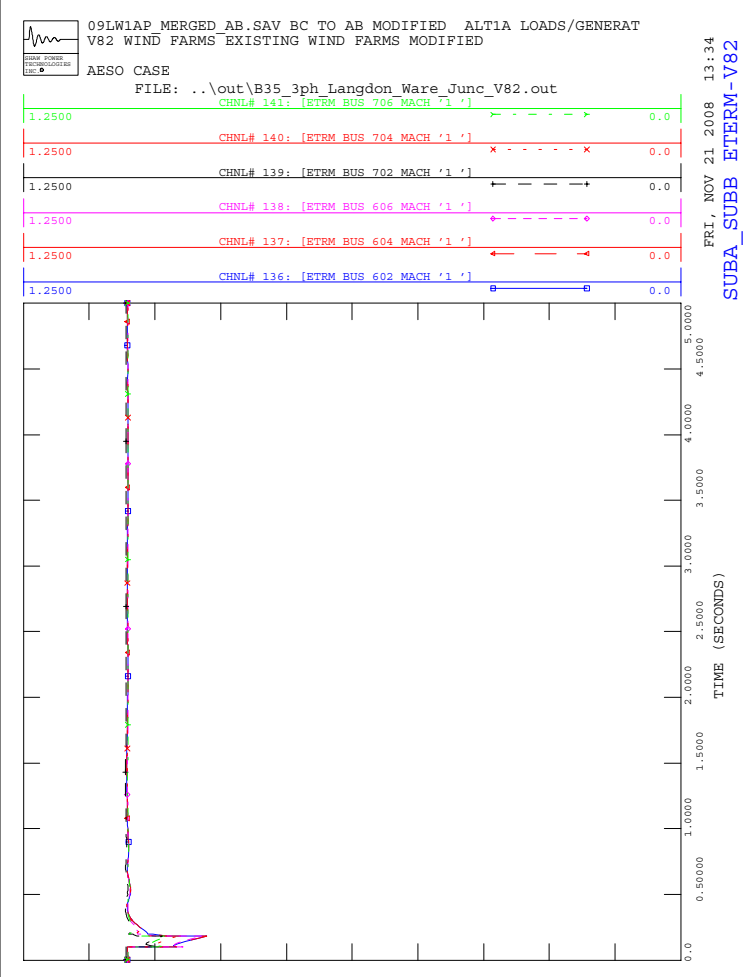
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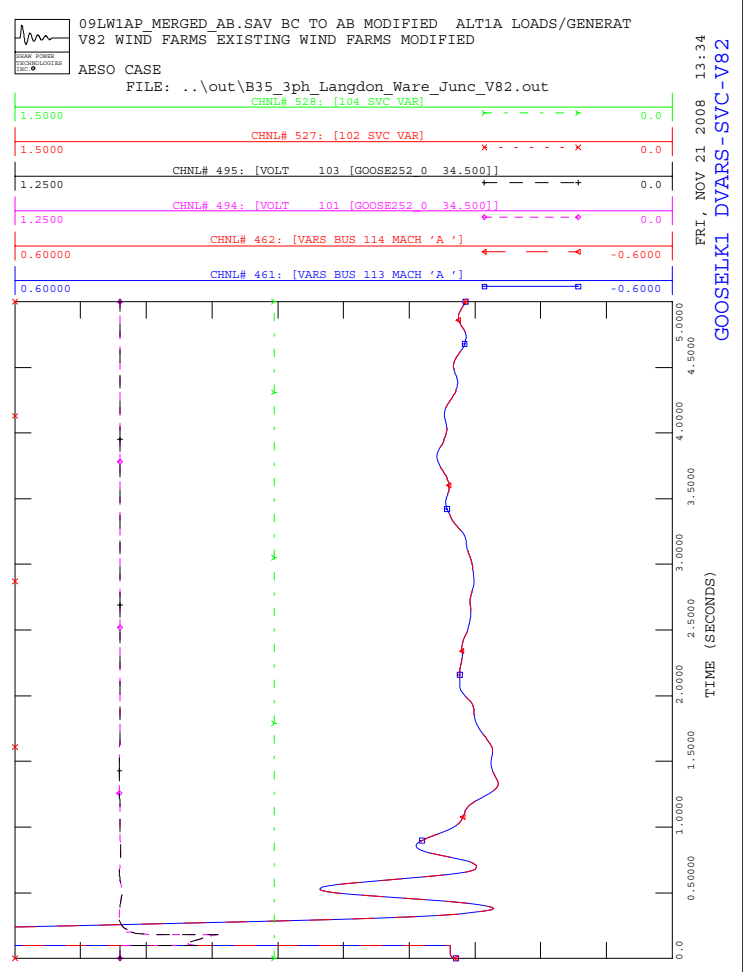
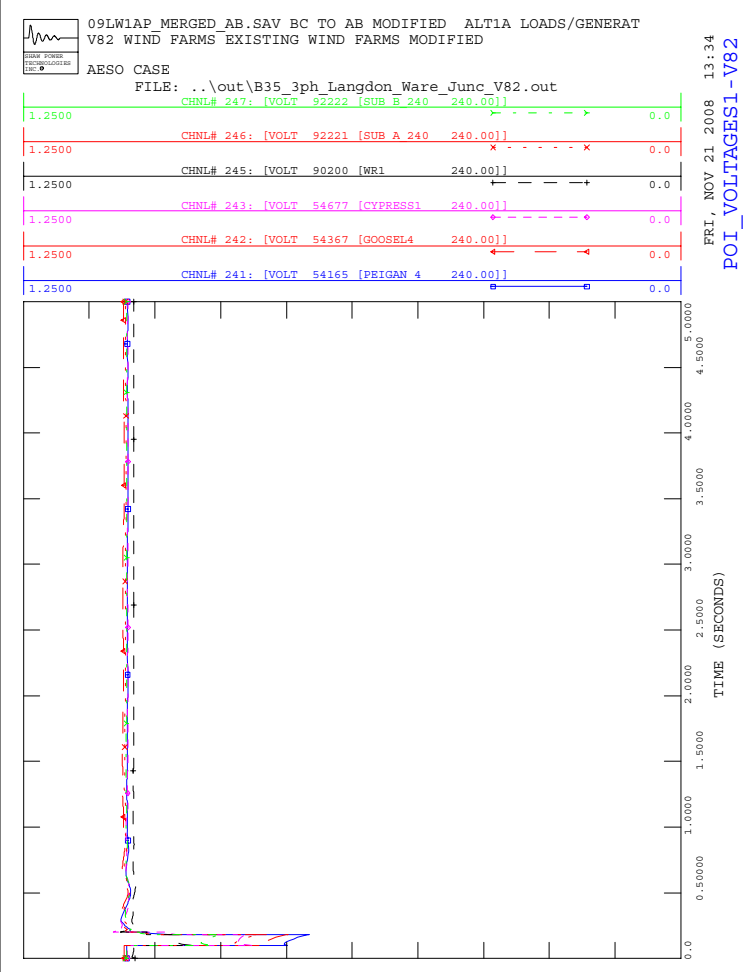
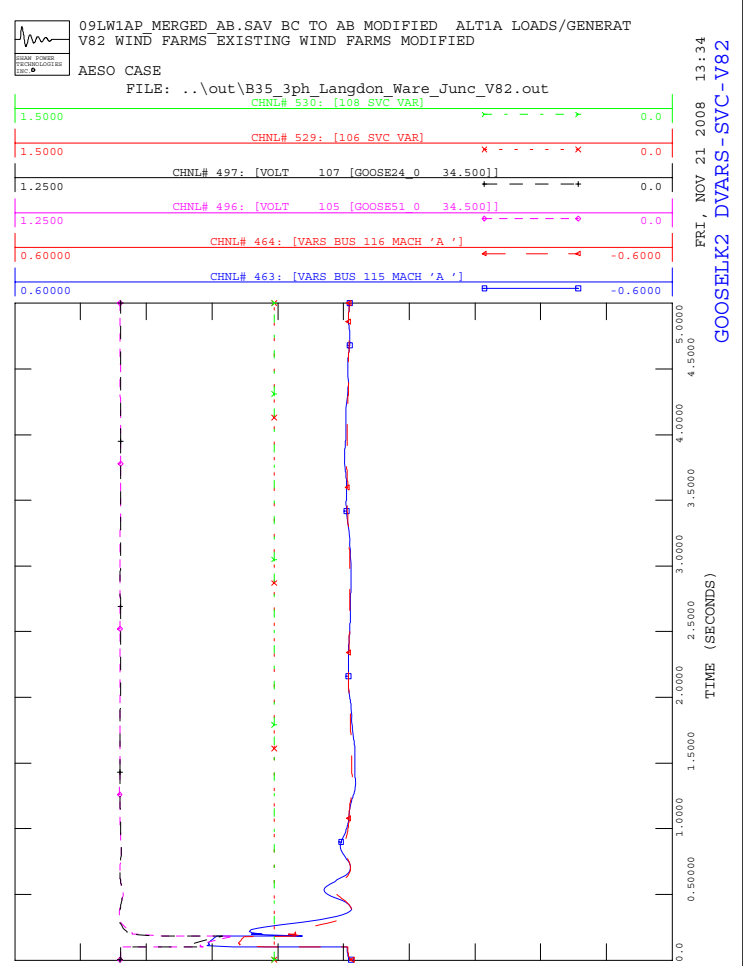
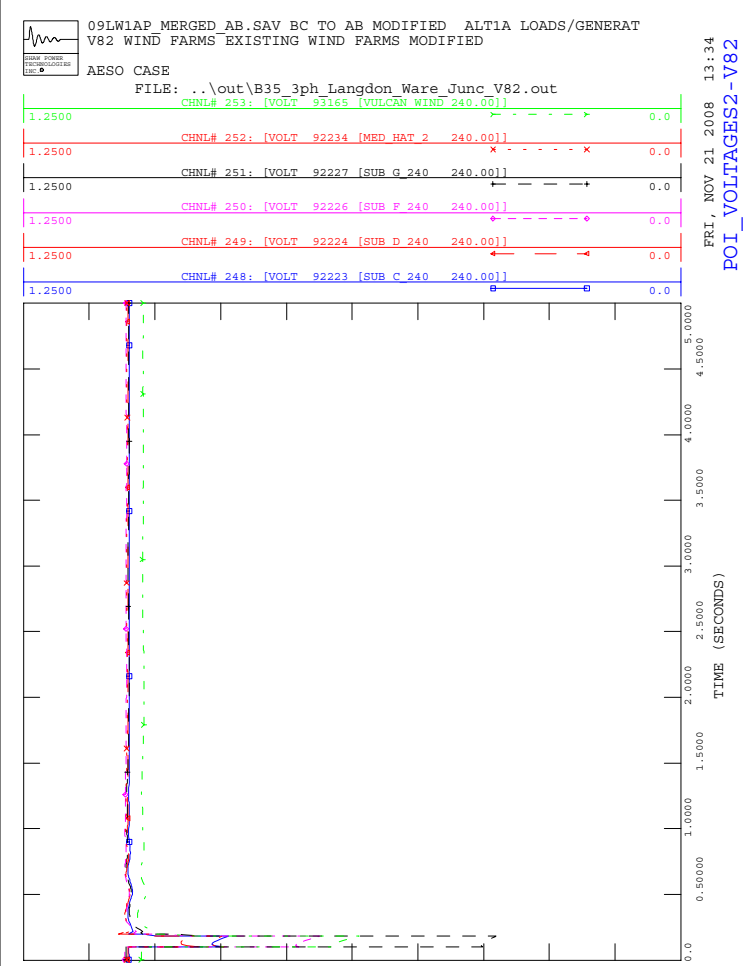
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE
 FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out

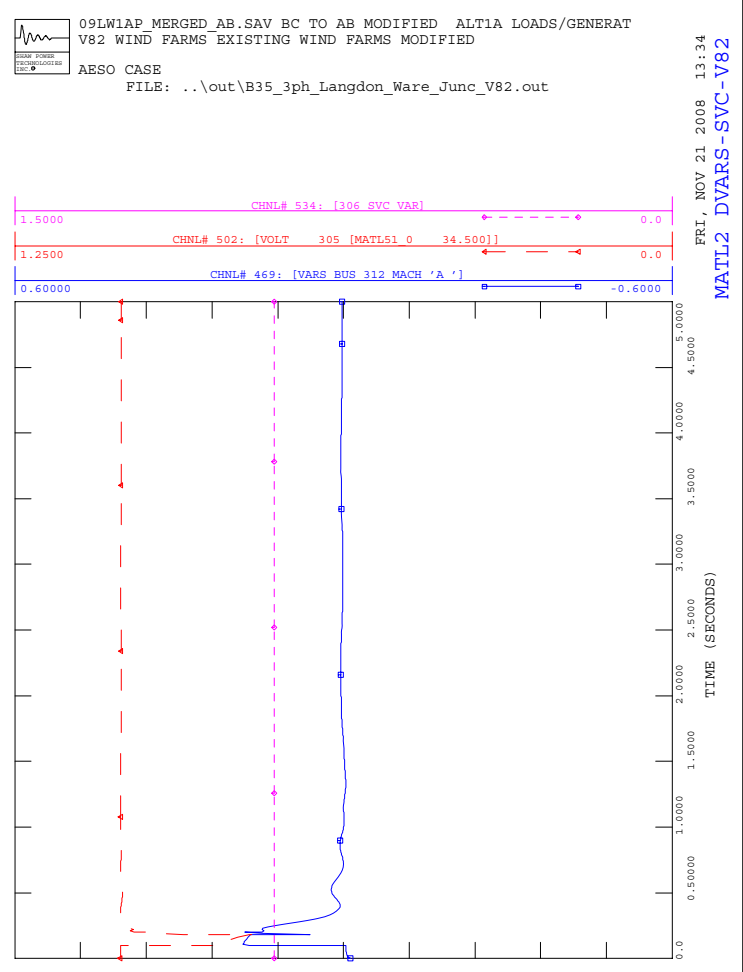
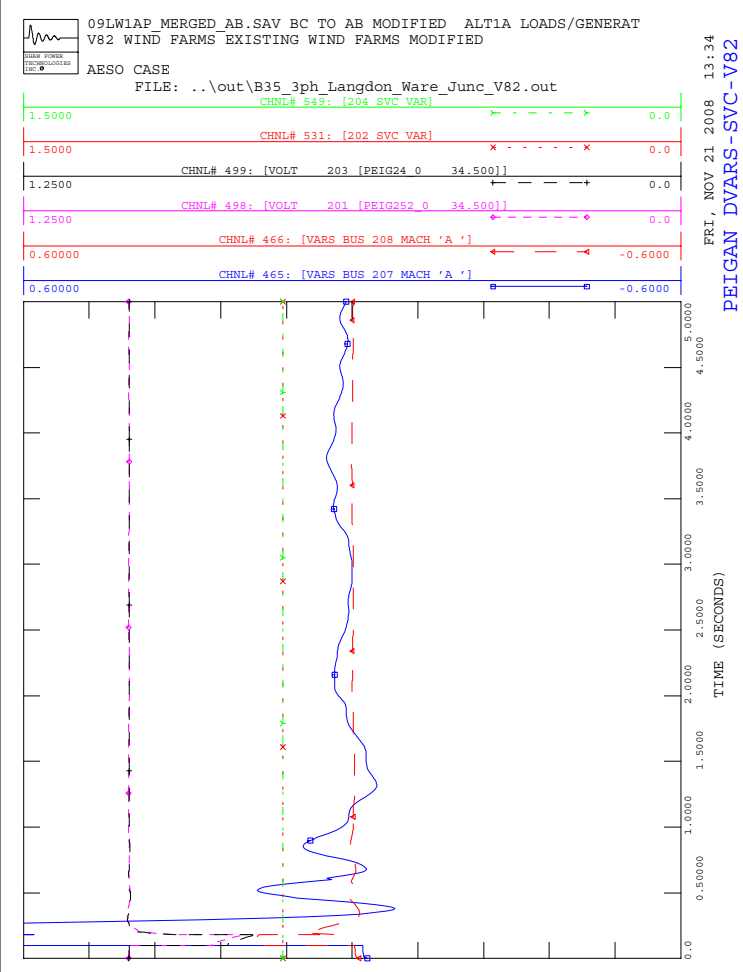
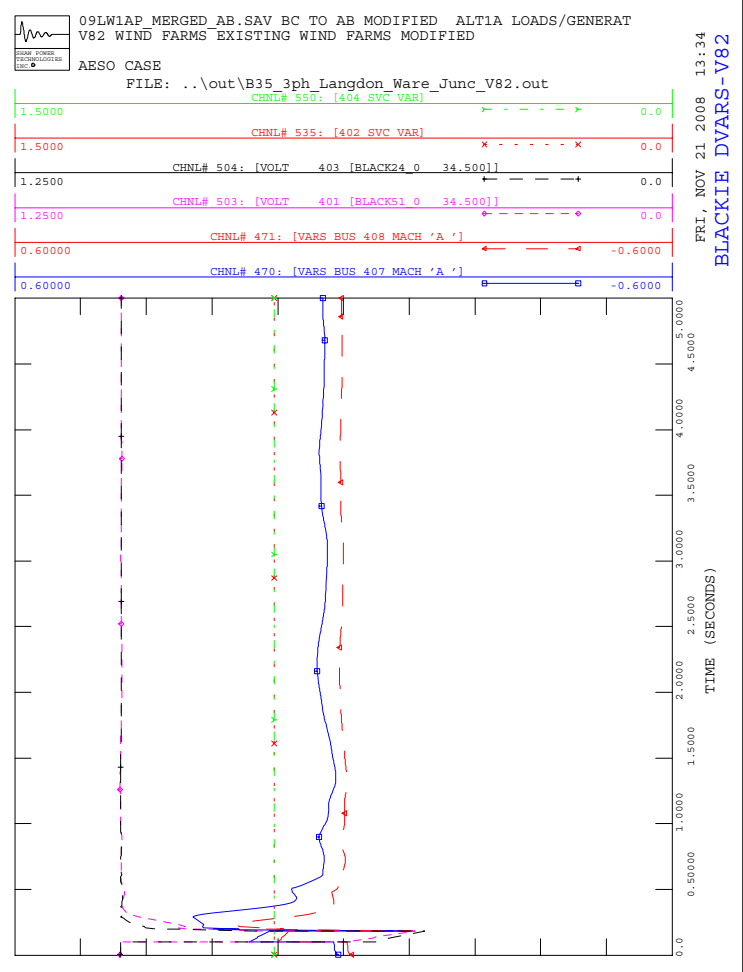
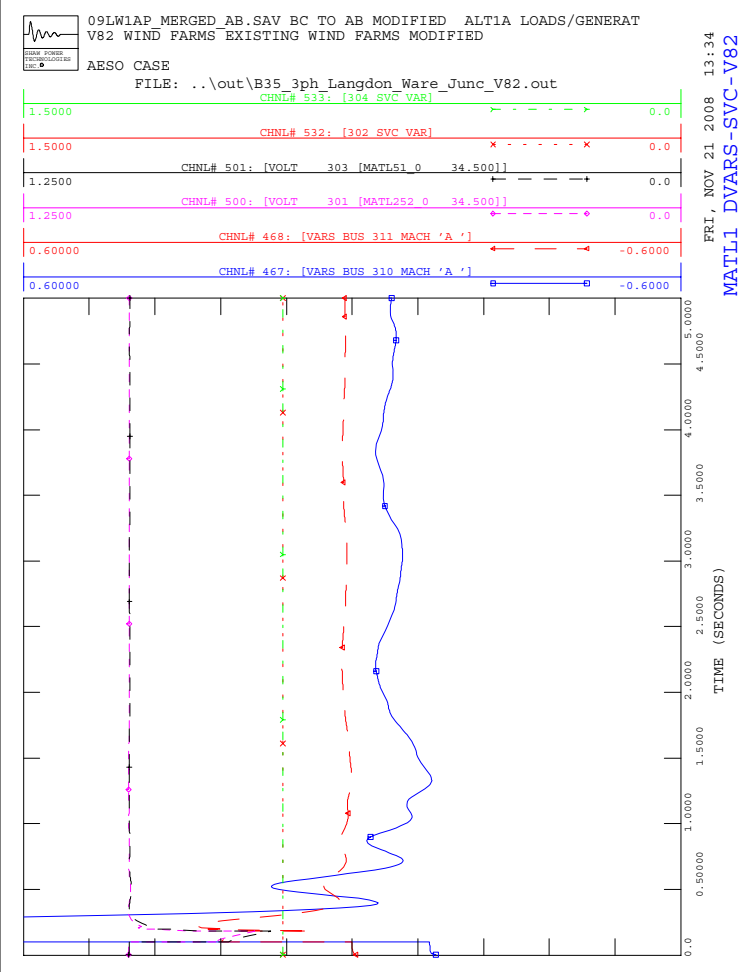


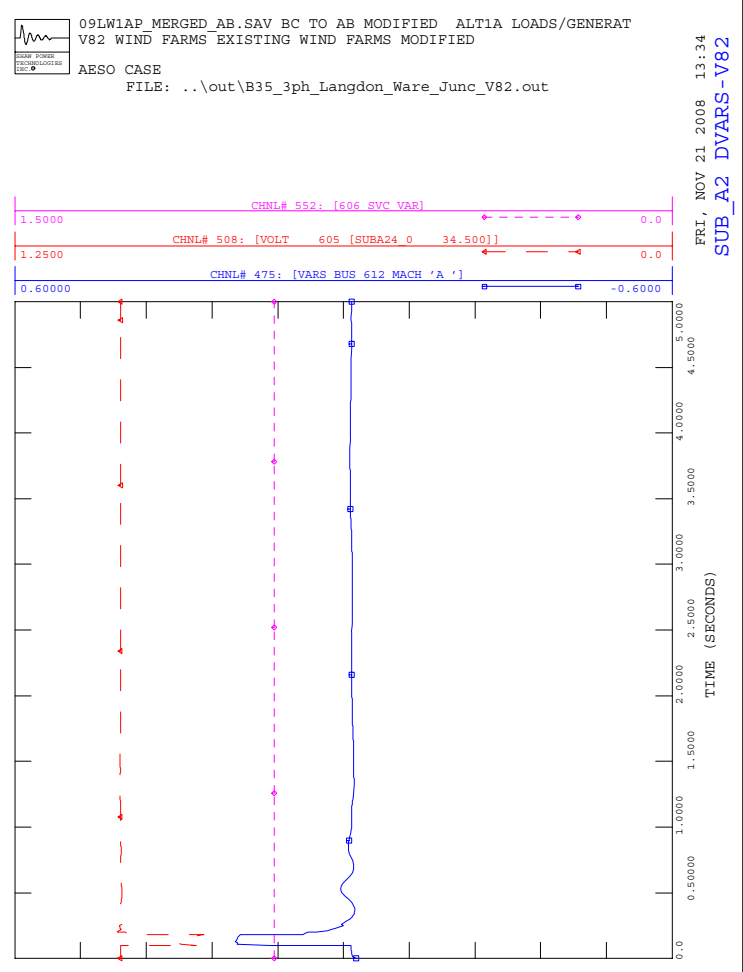
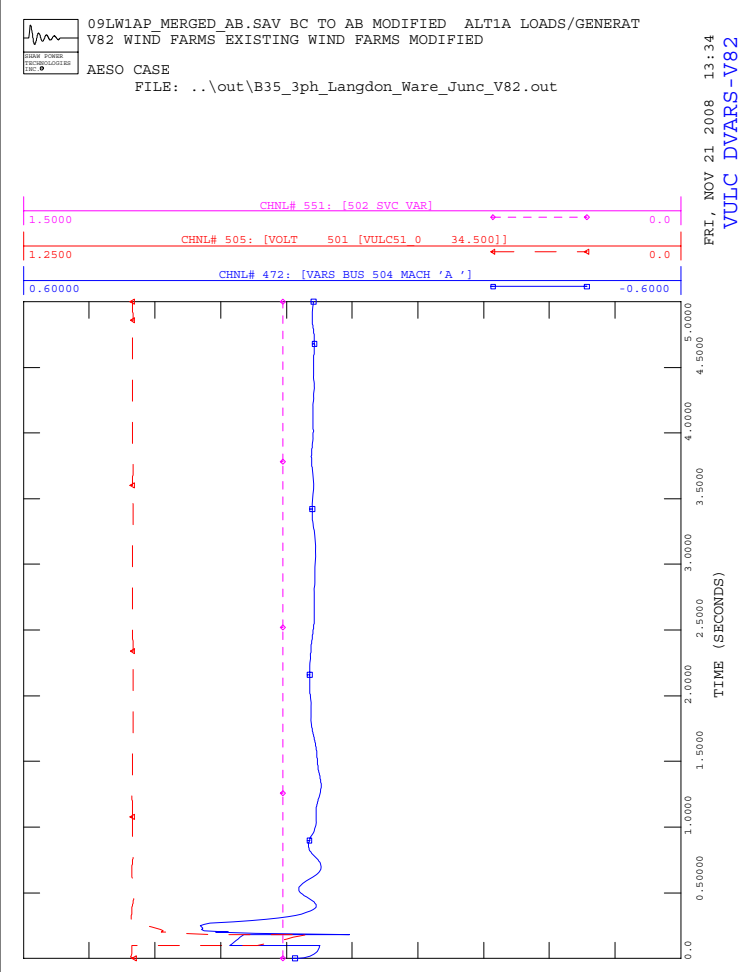
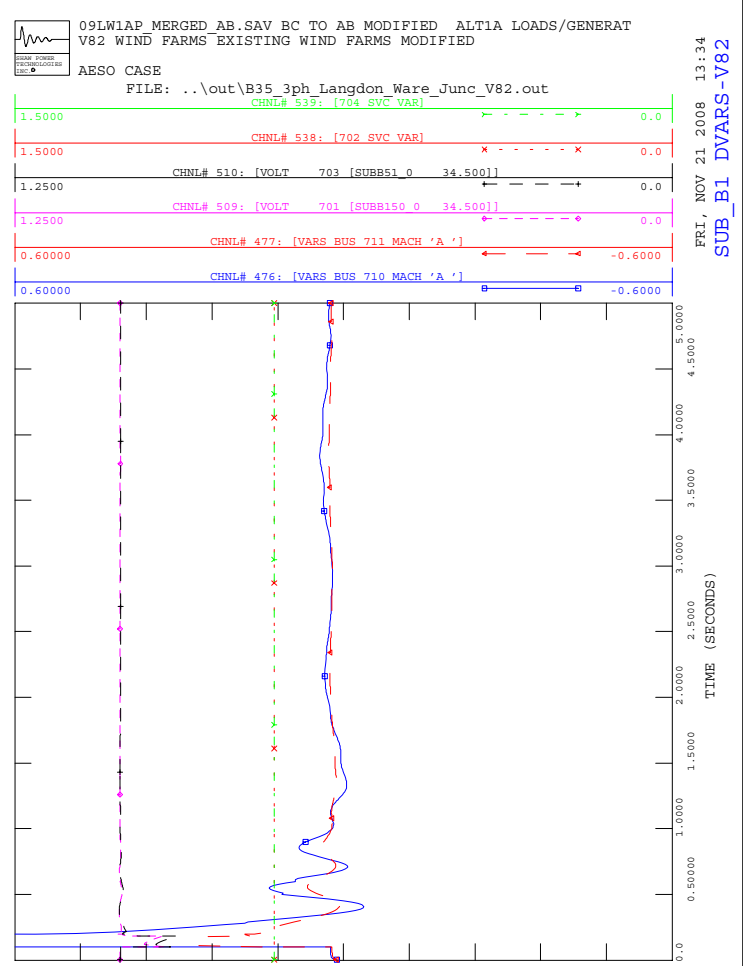
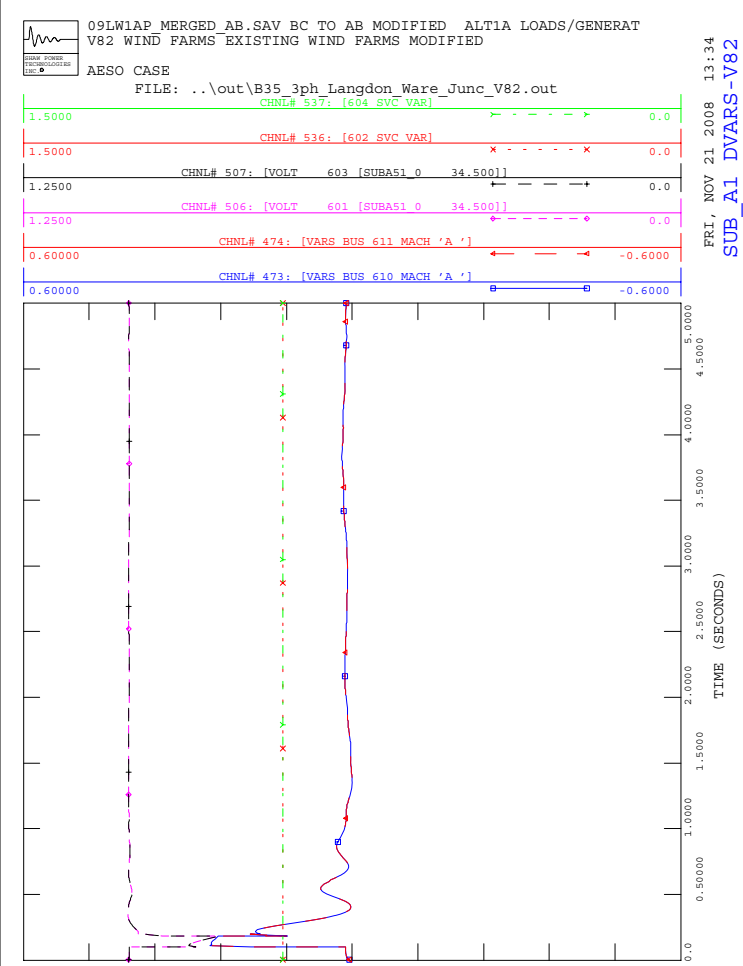
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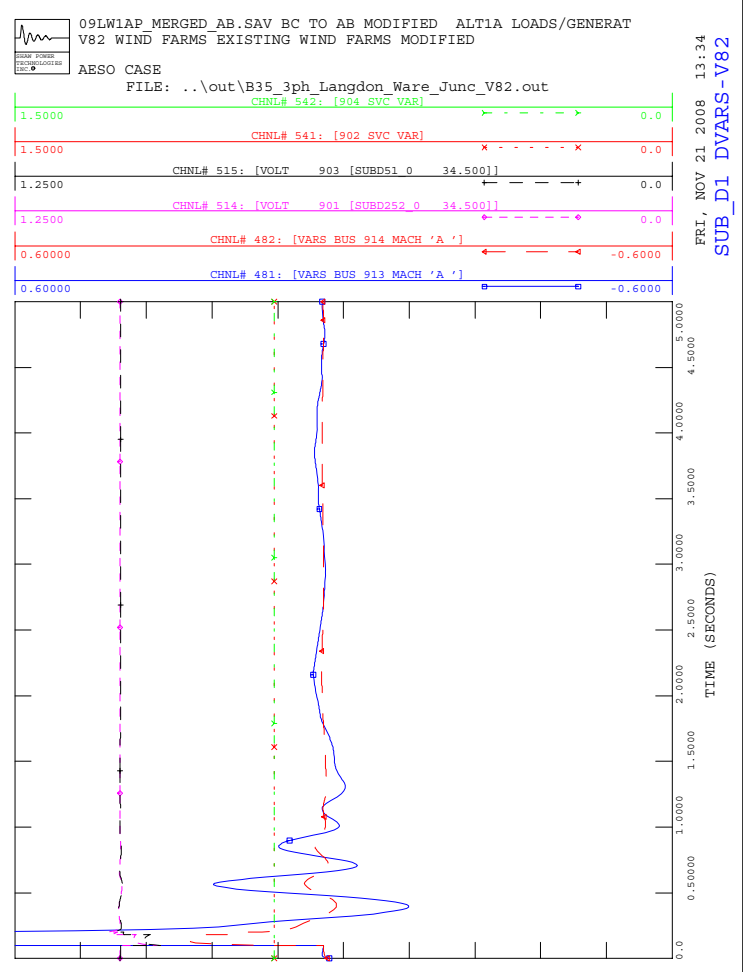
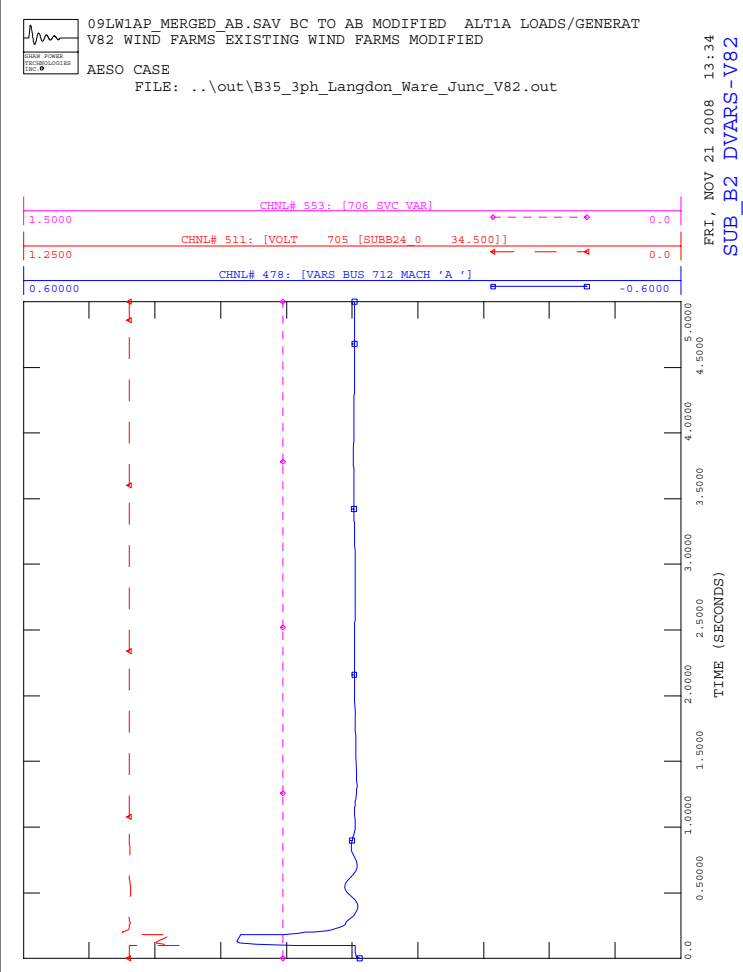
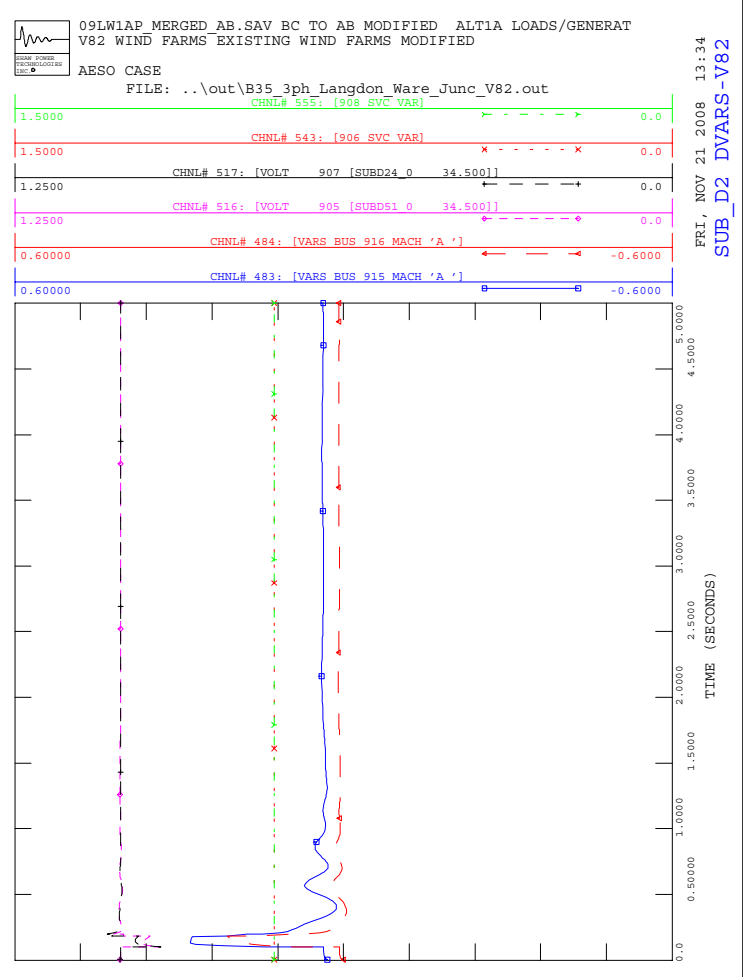
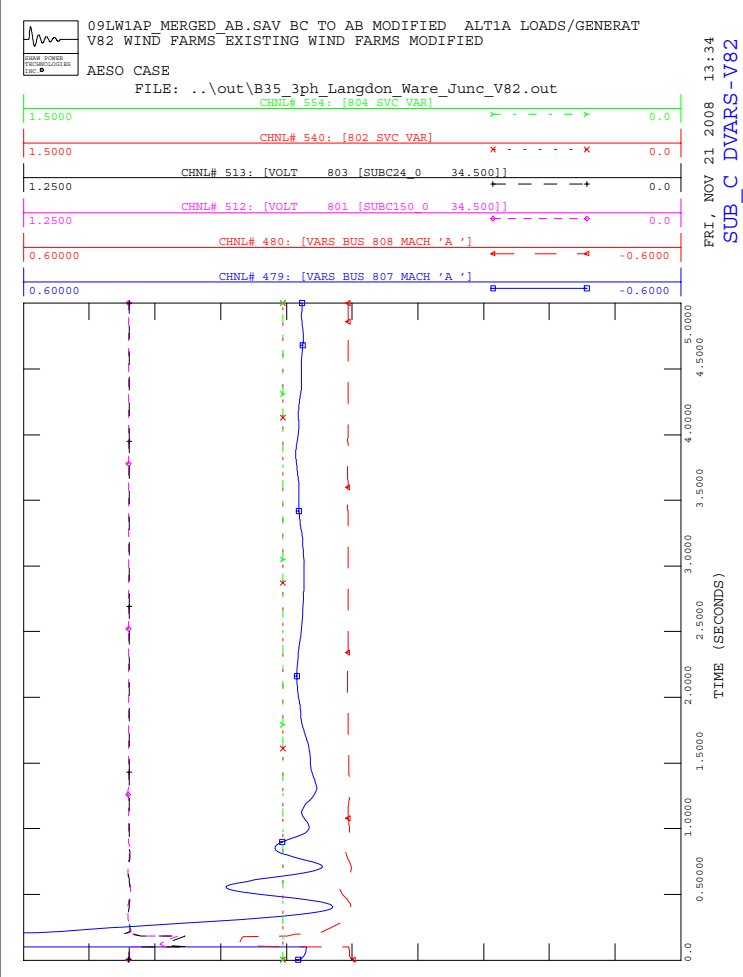


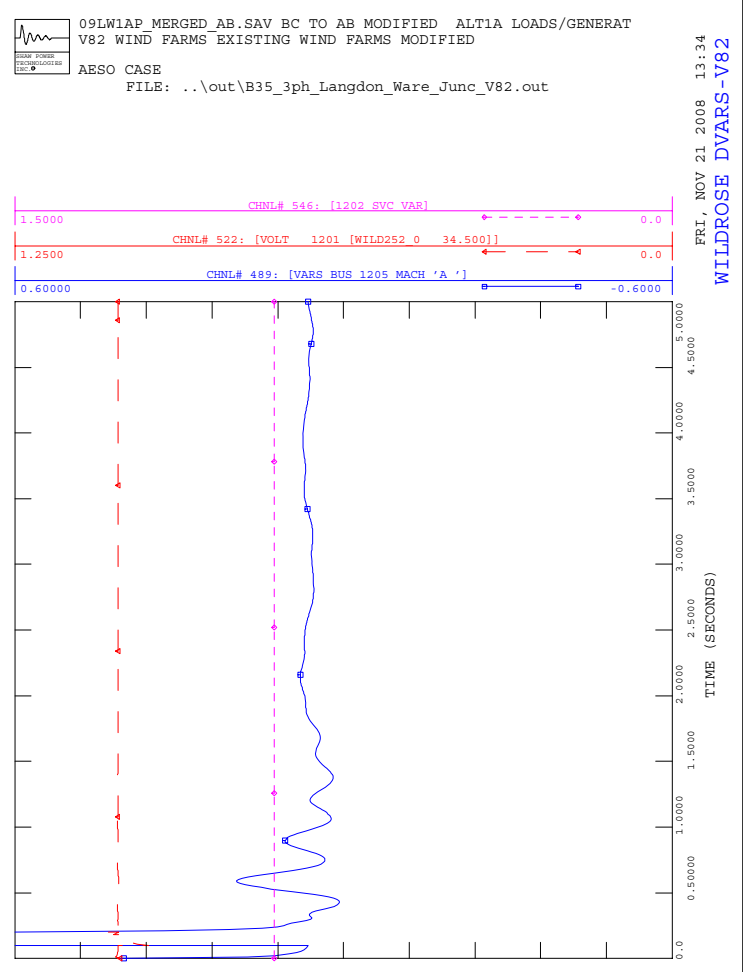
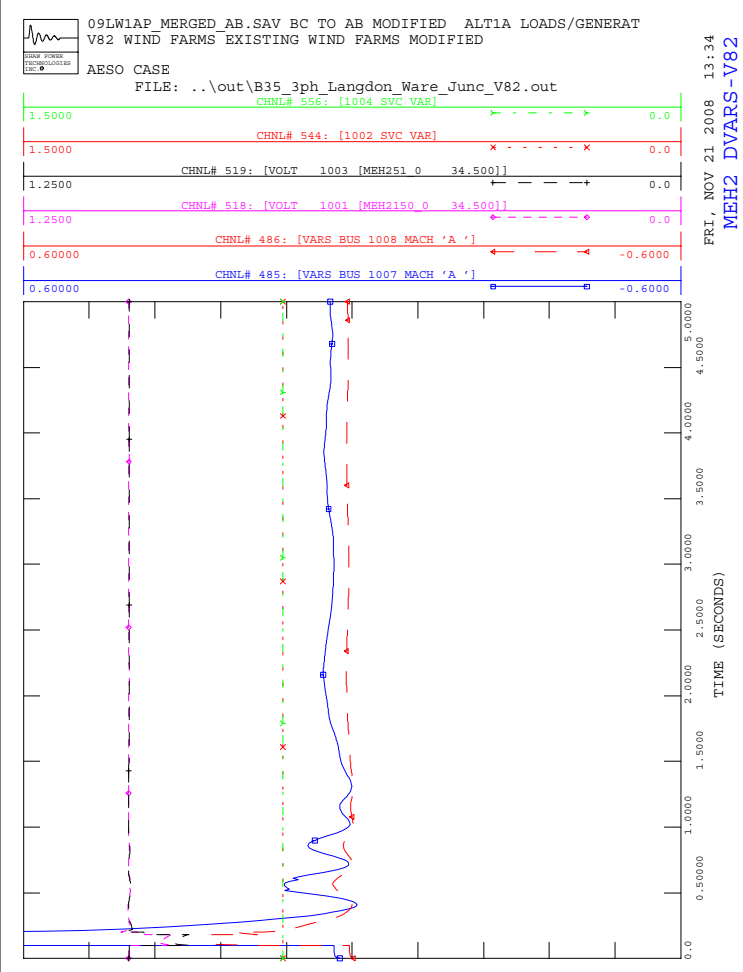
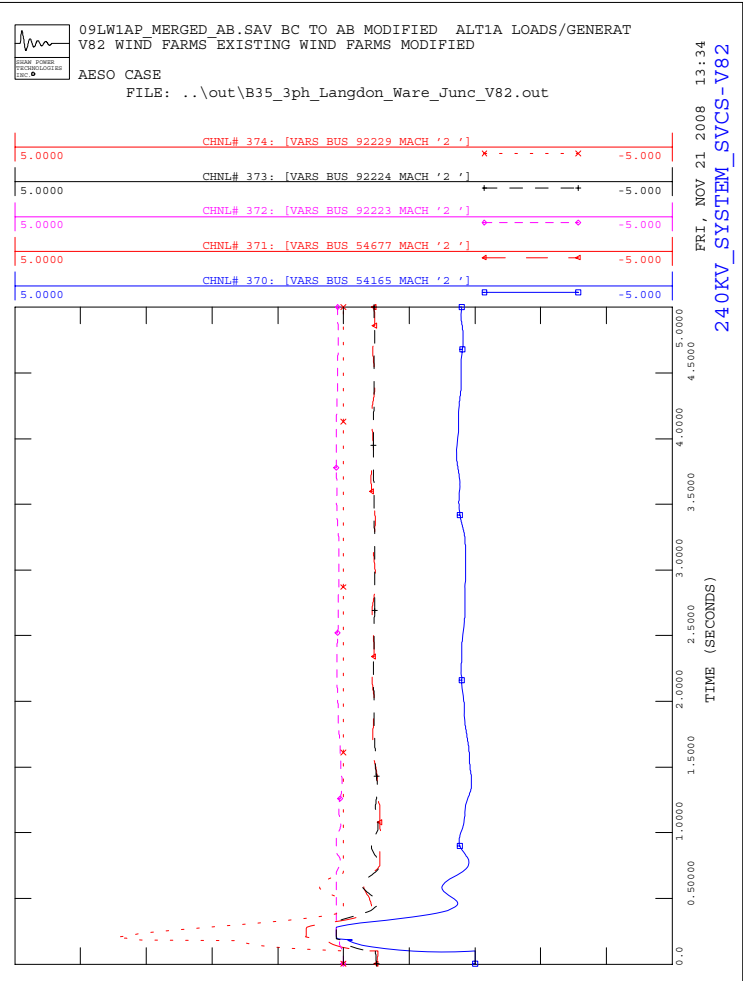
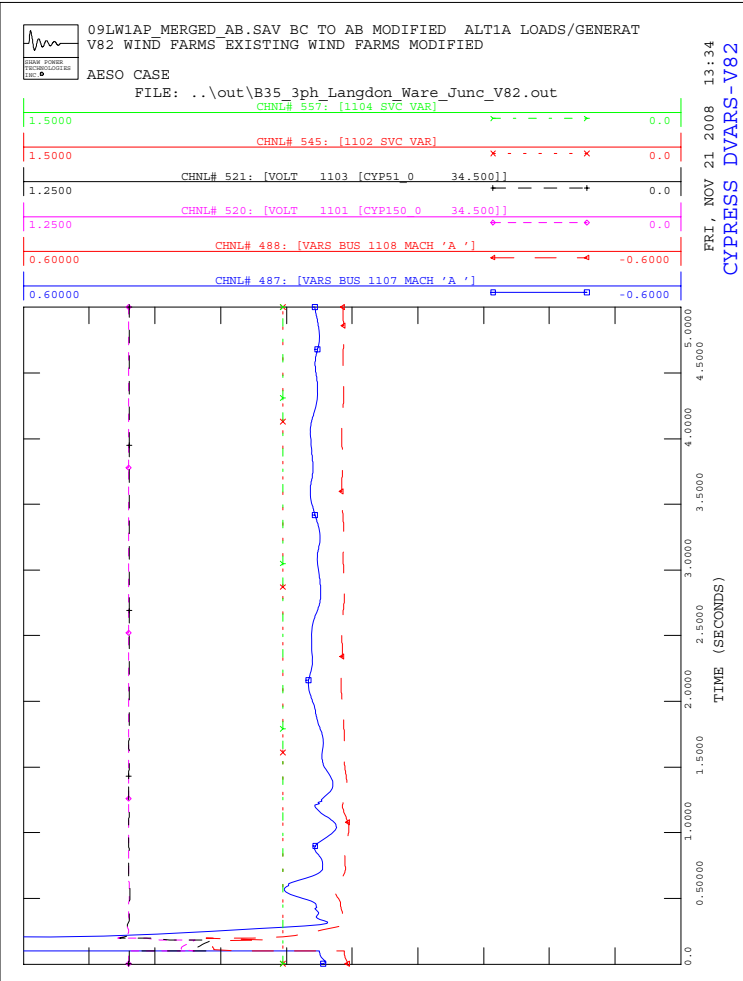












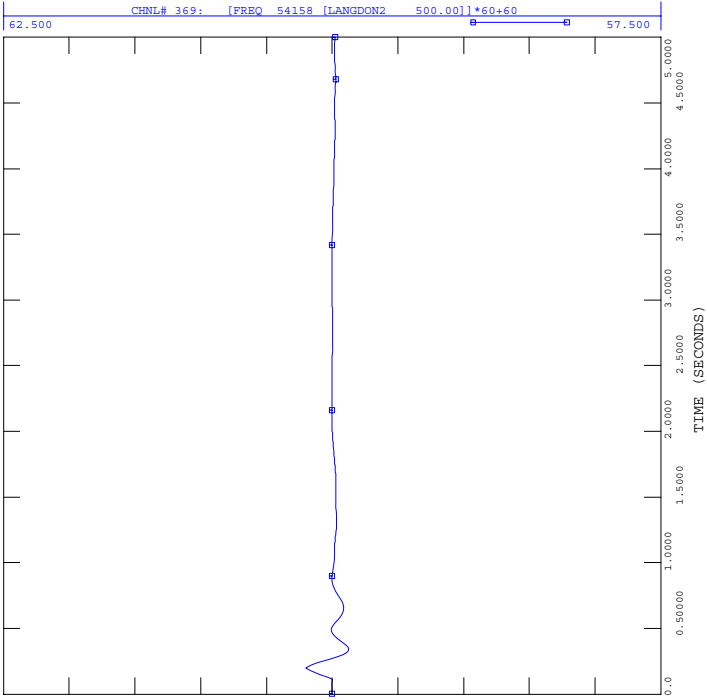


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out

FRI, NOV 21 2008 13:34
LANGDON_FRQ-V82

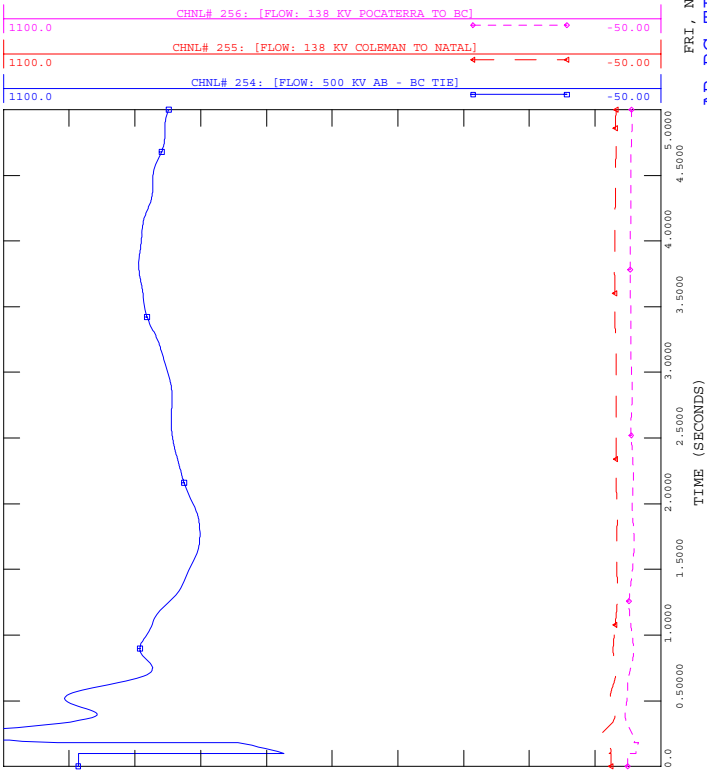


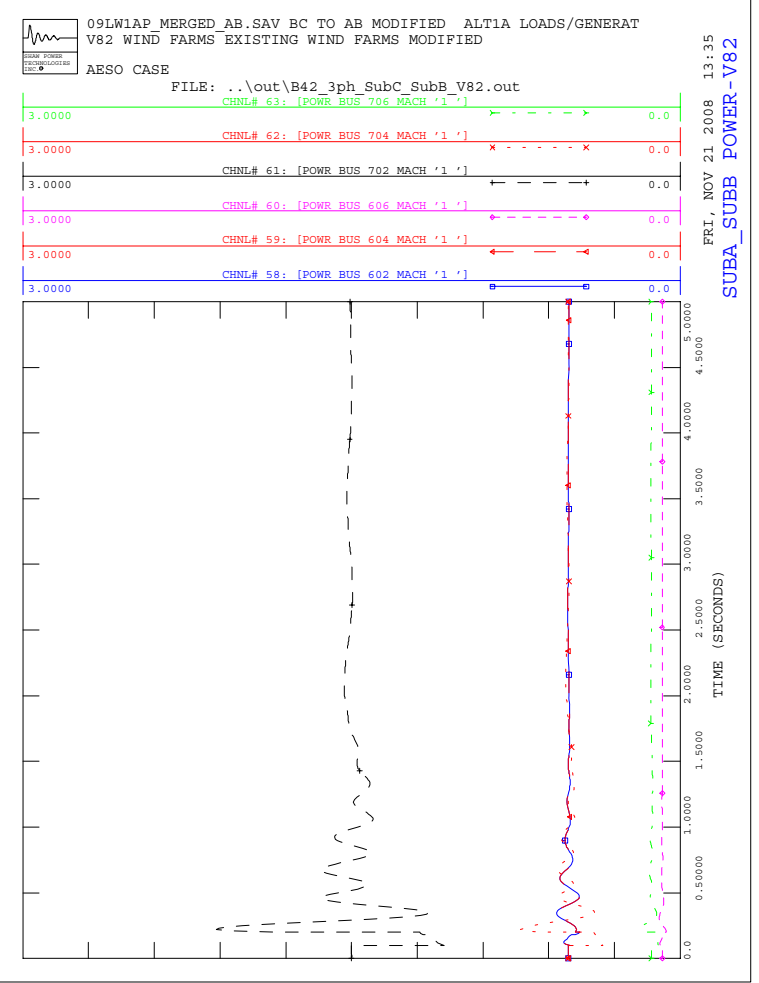
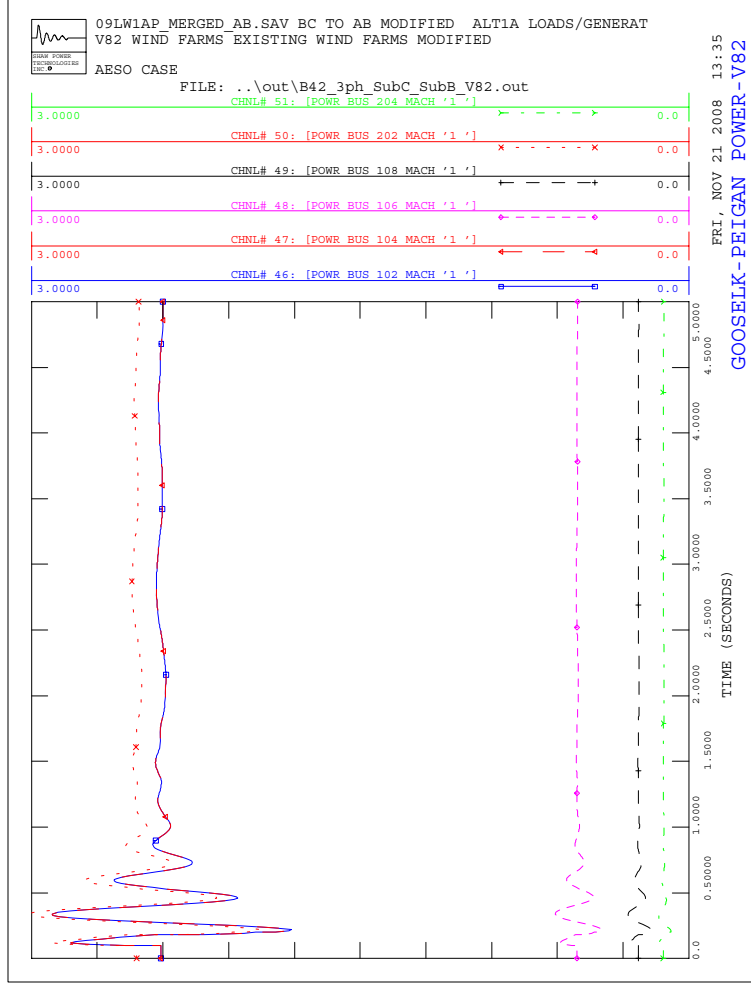
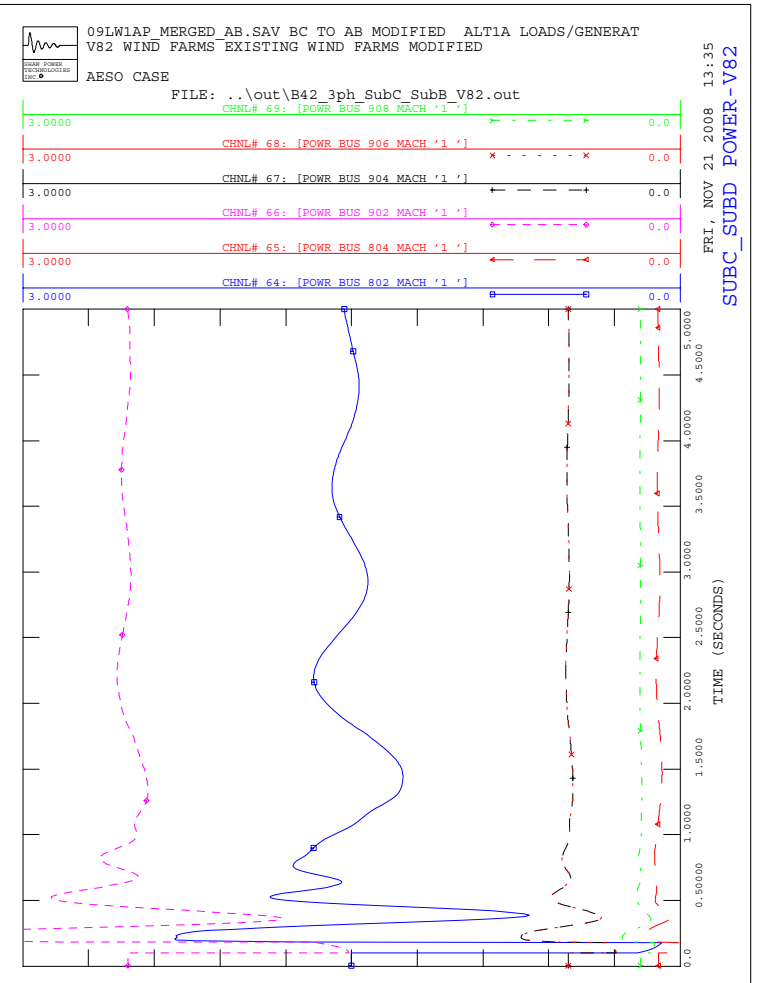
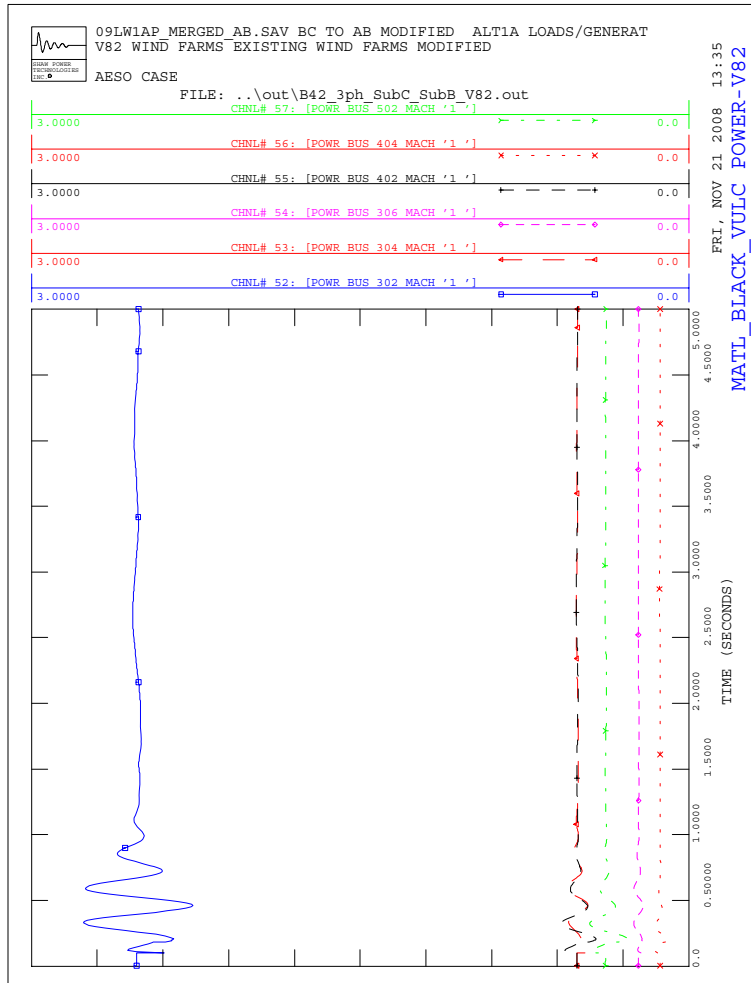
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

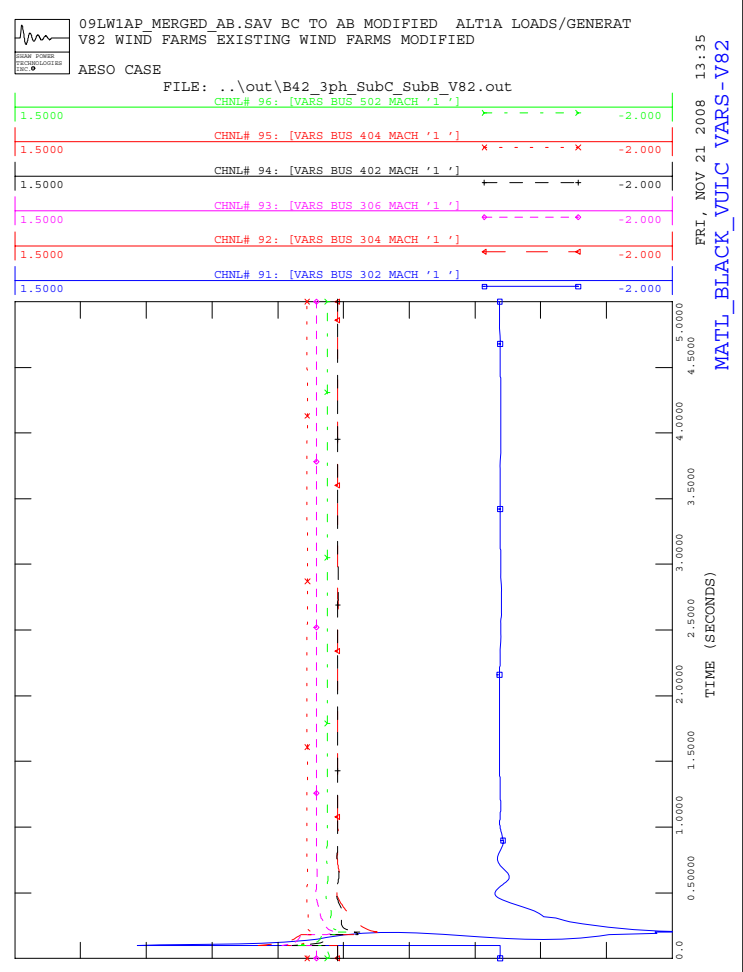
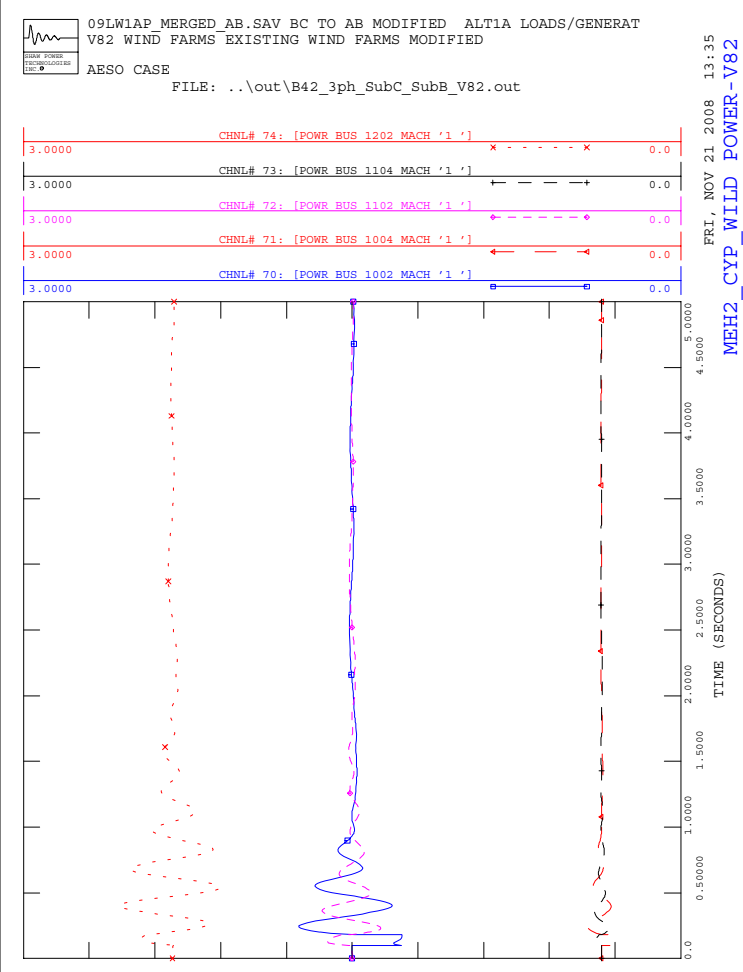
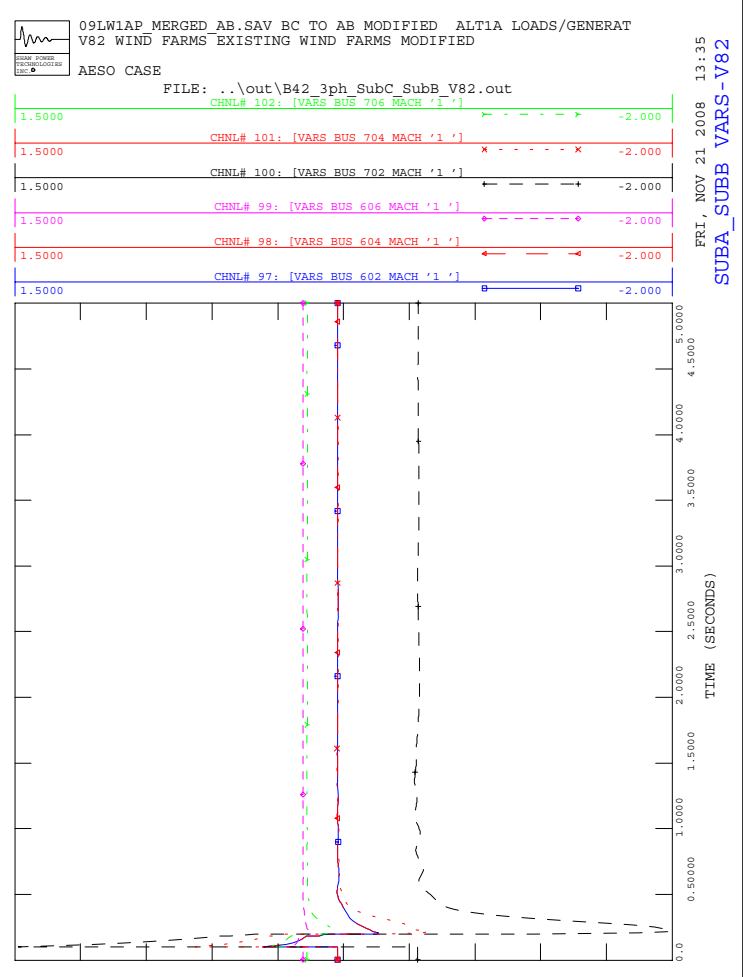
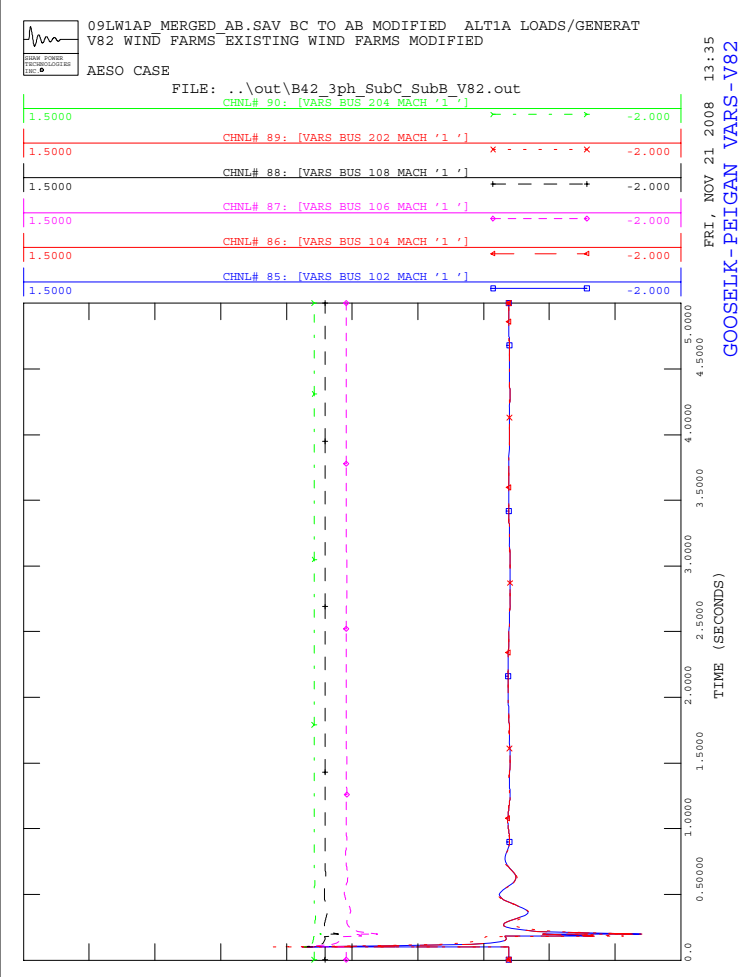
ABSO CASE

FILE: ..\out\B35_3ph_Langdon_Ware_Junc_V82.out

FRI, NOV 21 2008 13:34
AB_BC_TIE_FLOWS-V82

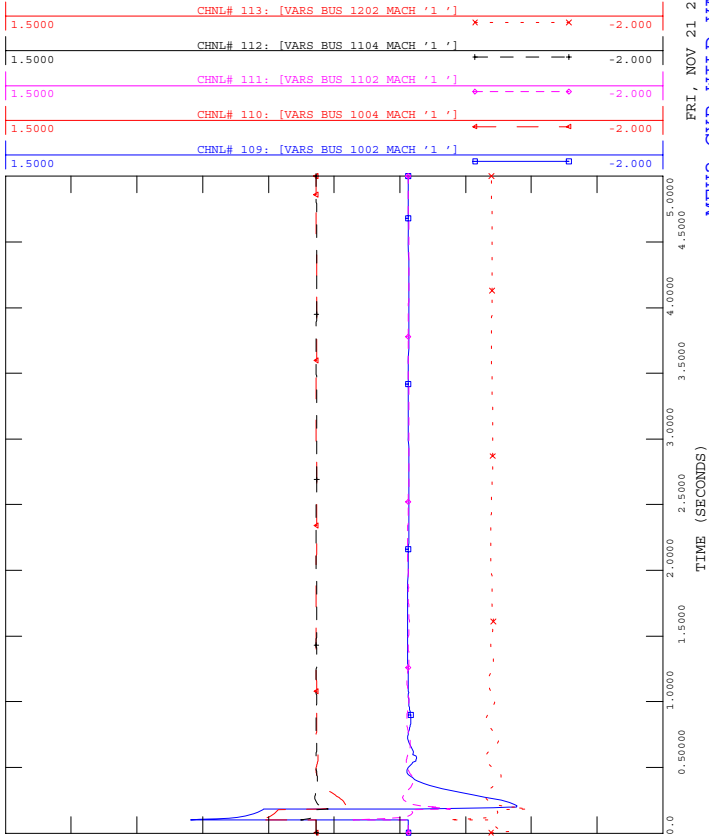






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

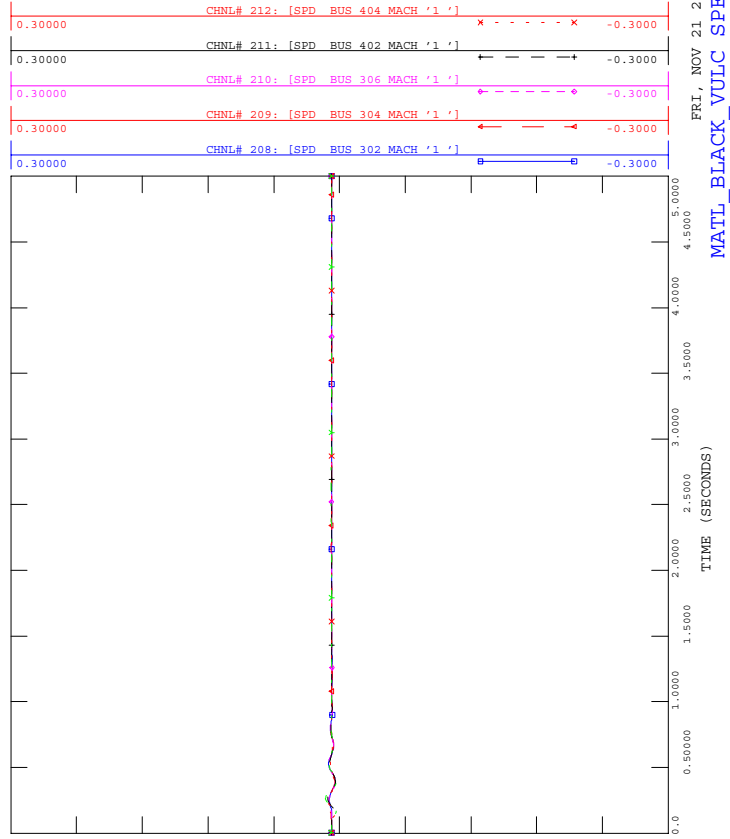
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

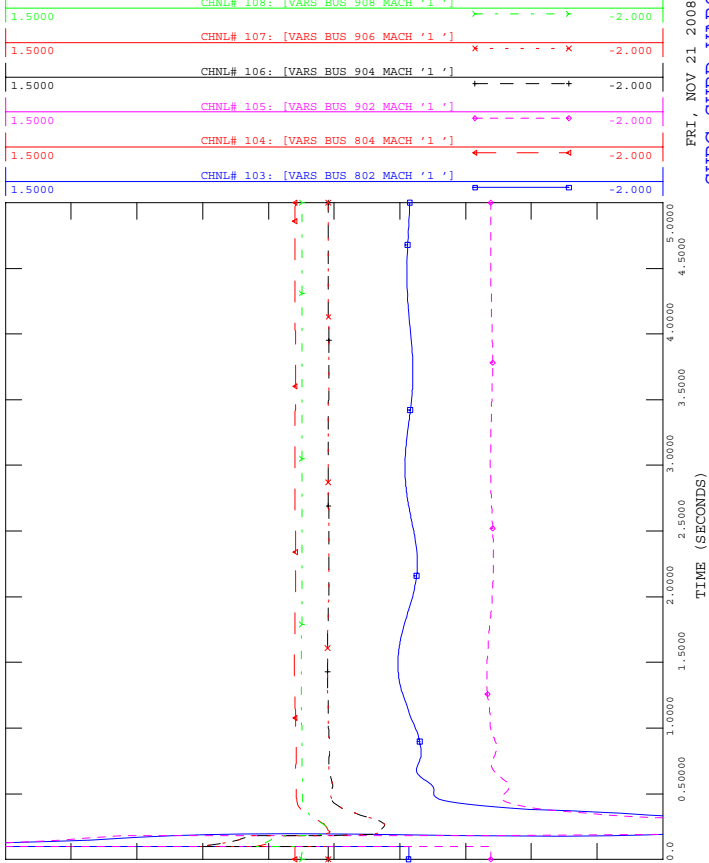
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FRI, NOV 21 2008 13:35

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
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AESO CASE

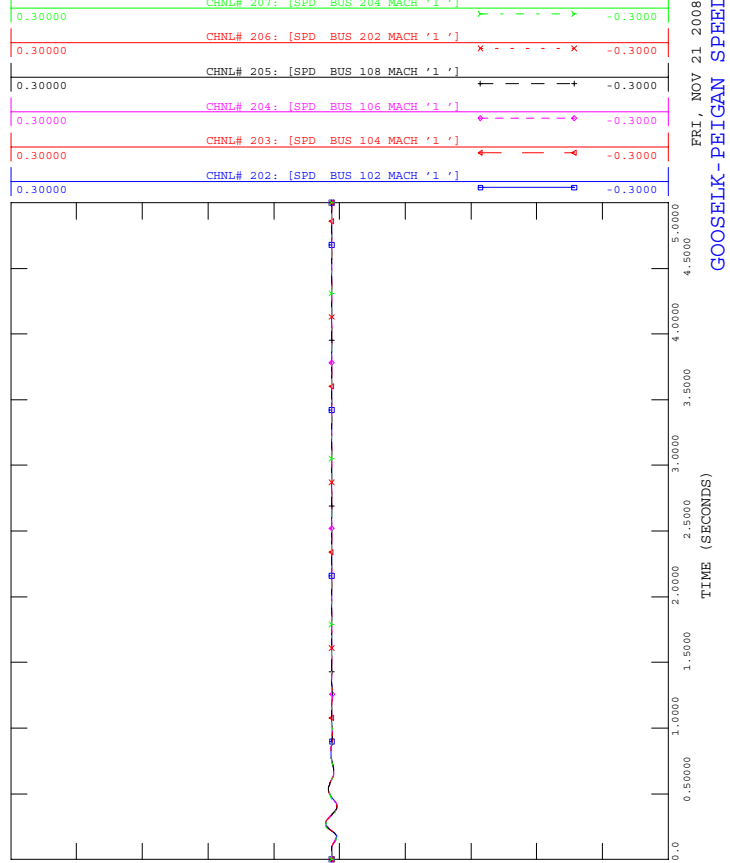
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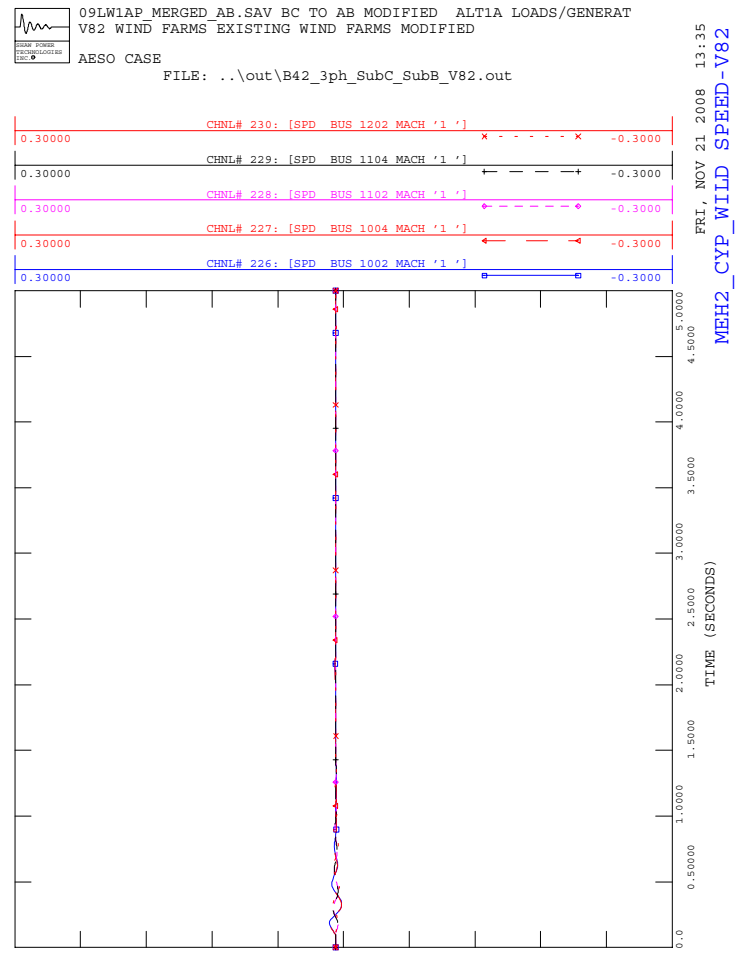
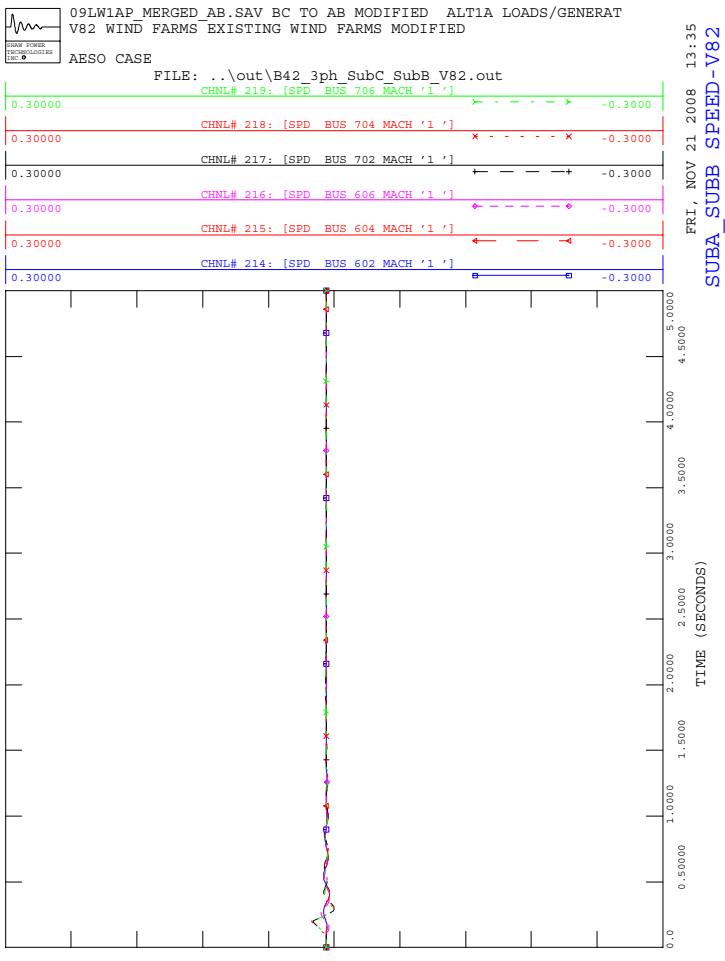
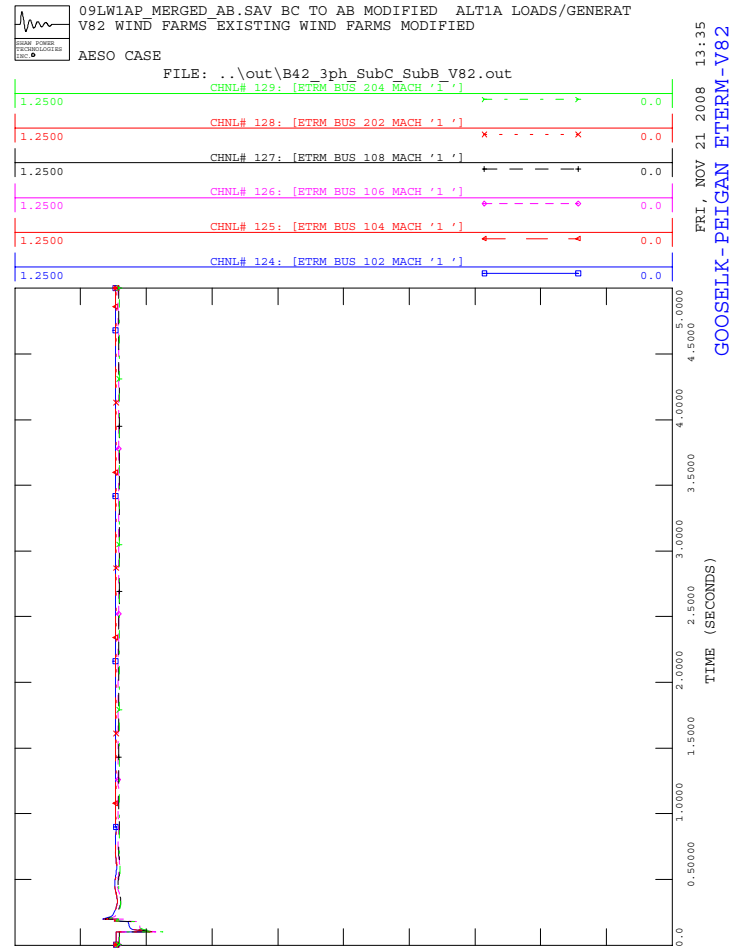
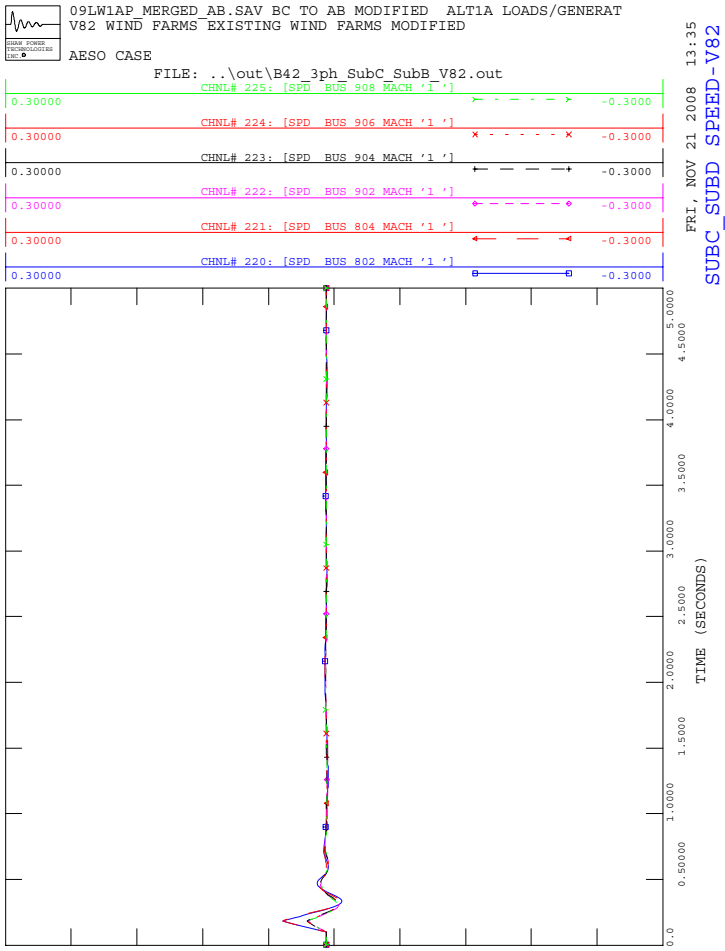
FRI, NOV 21 2008 13:35

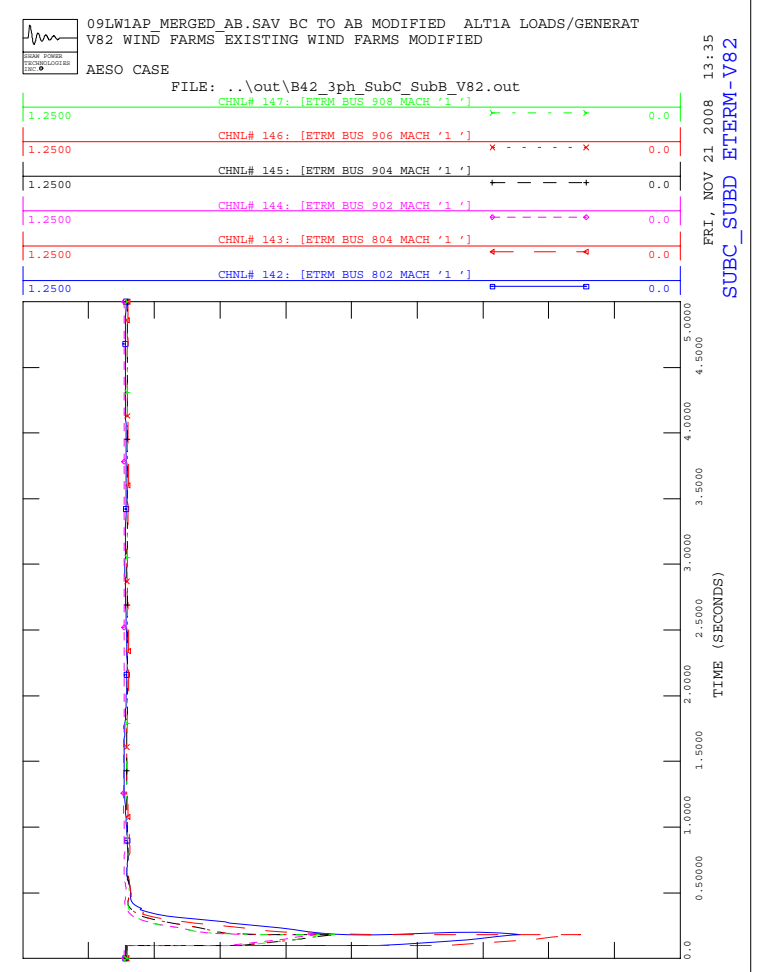
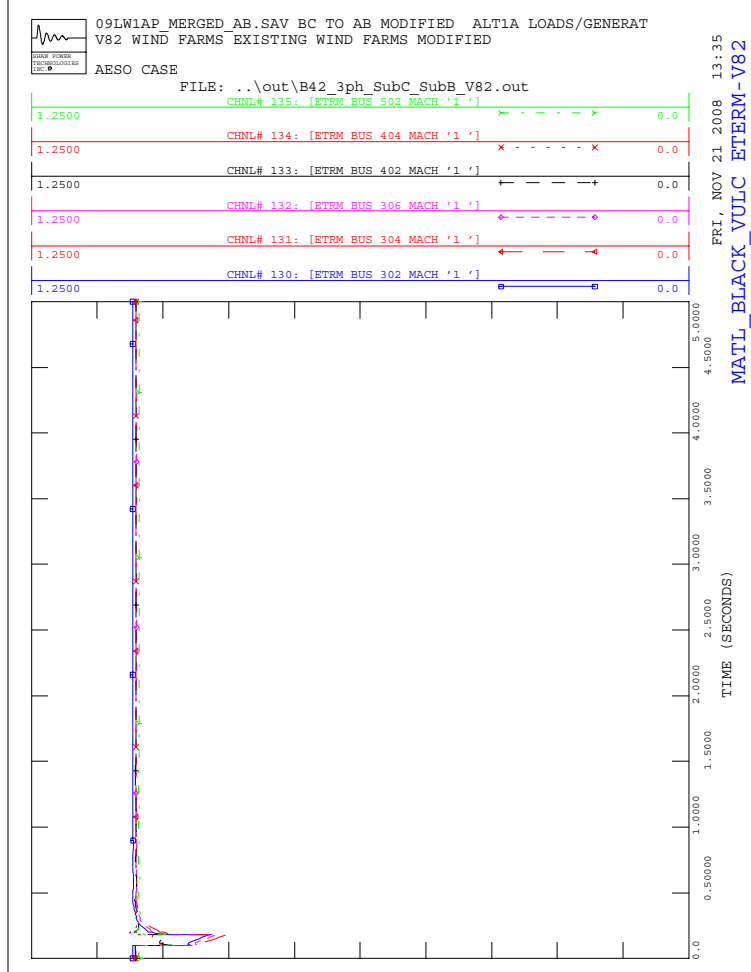
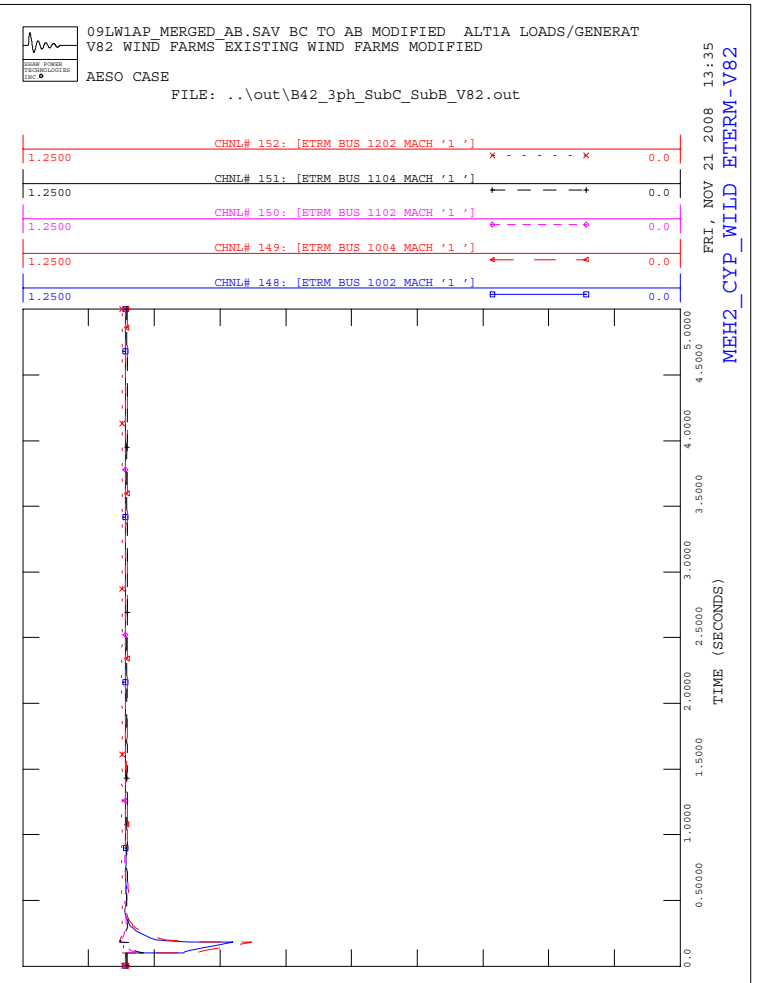
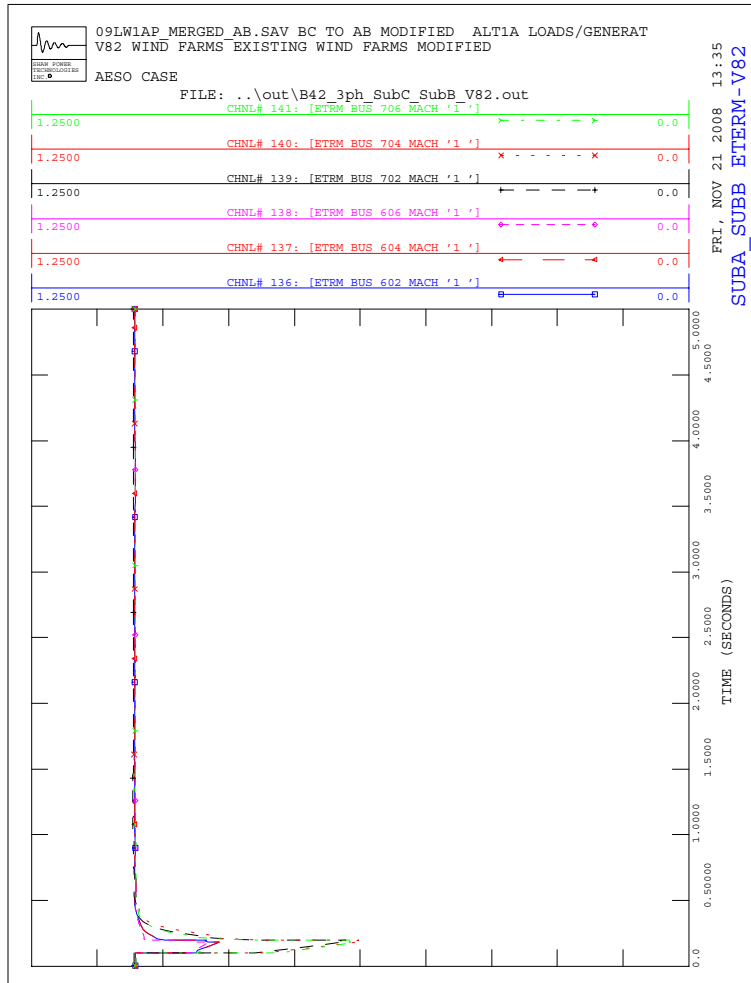
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AESO CASE

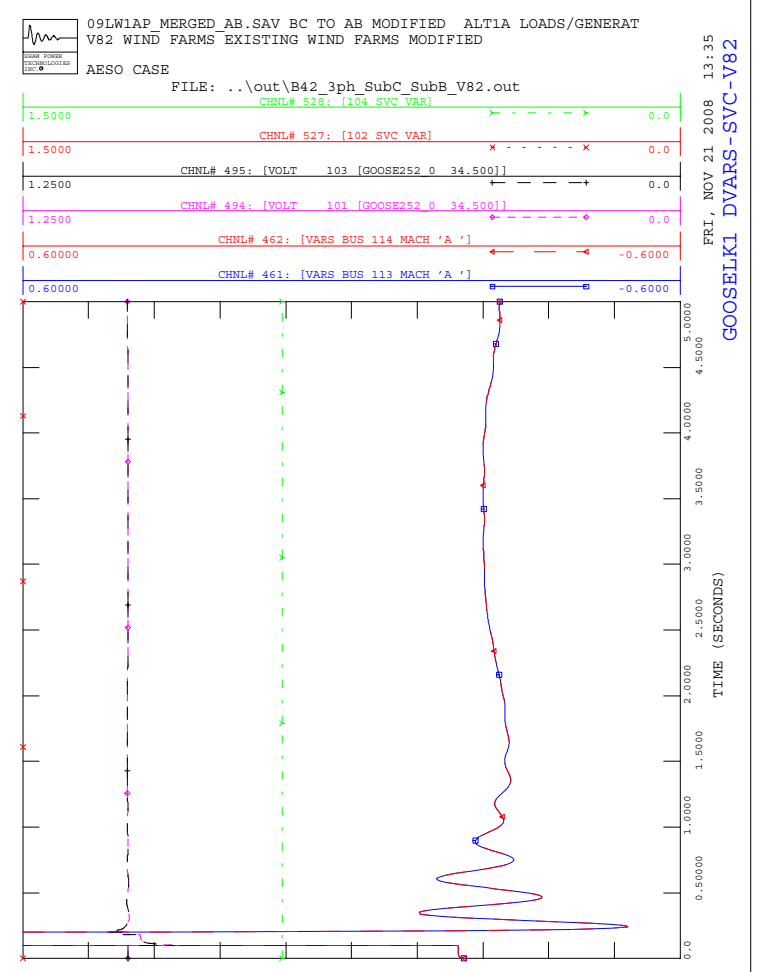
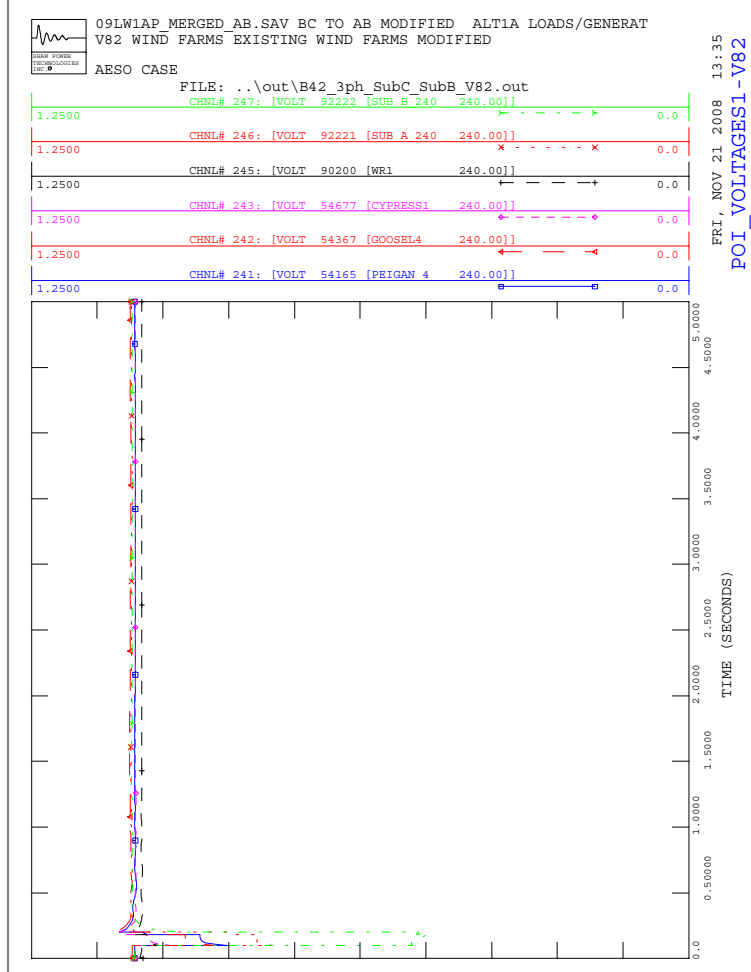
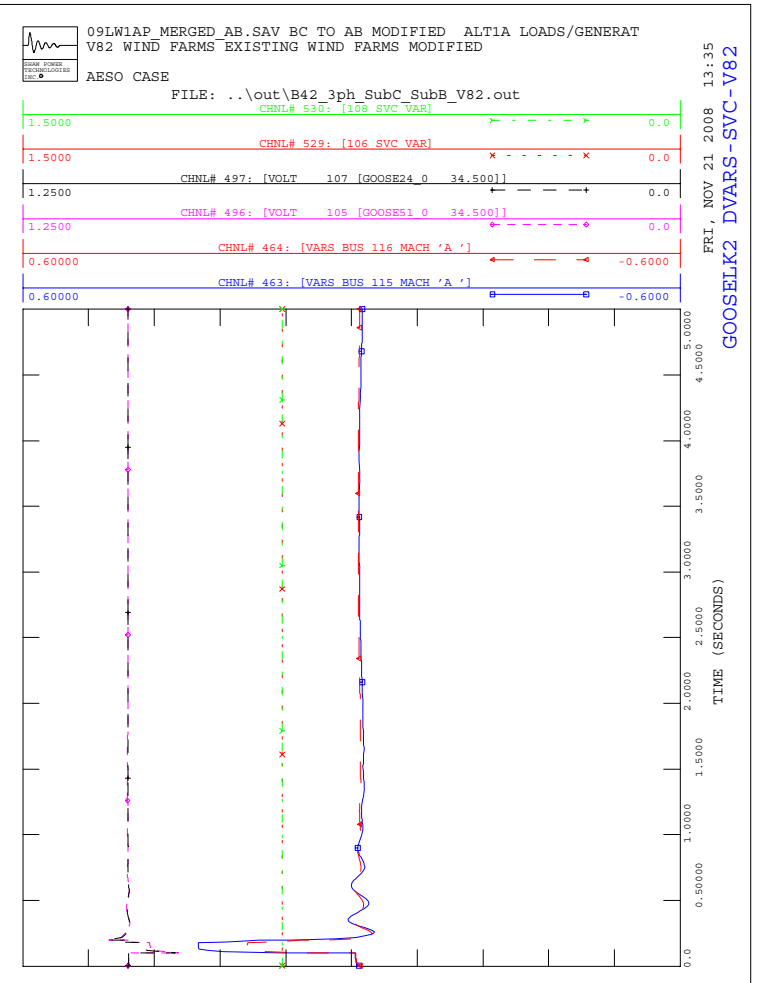
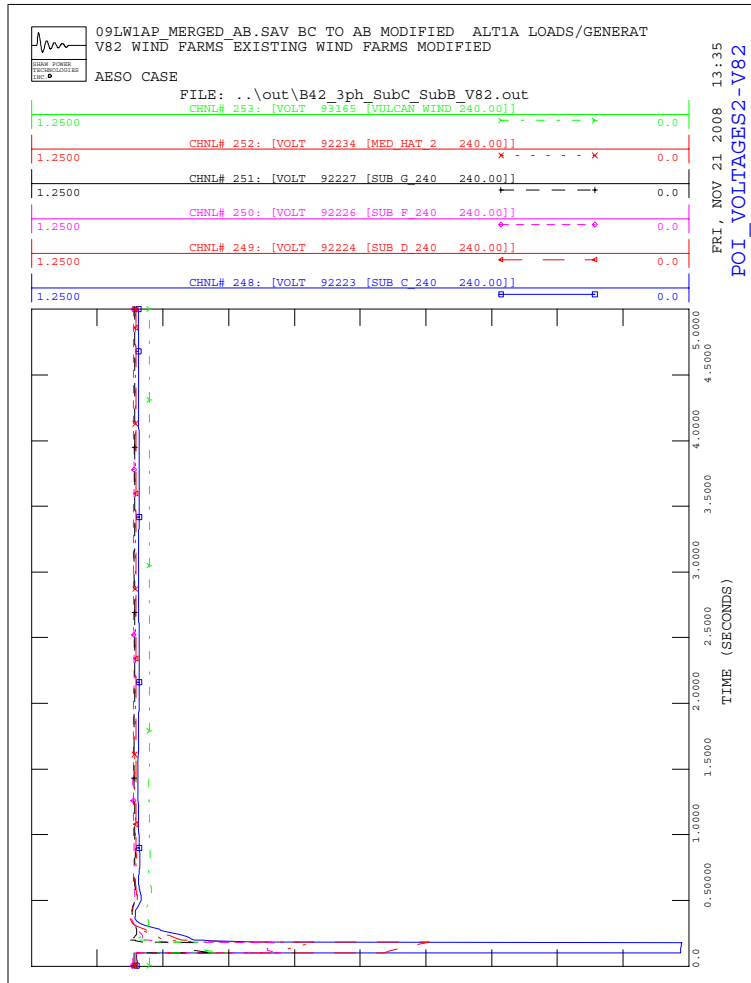
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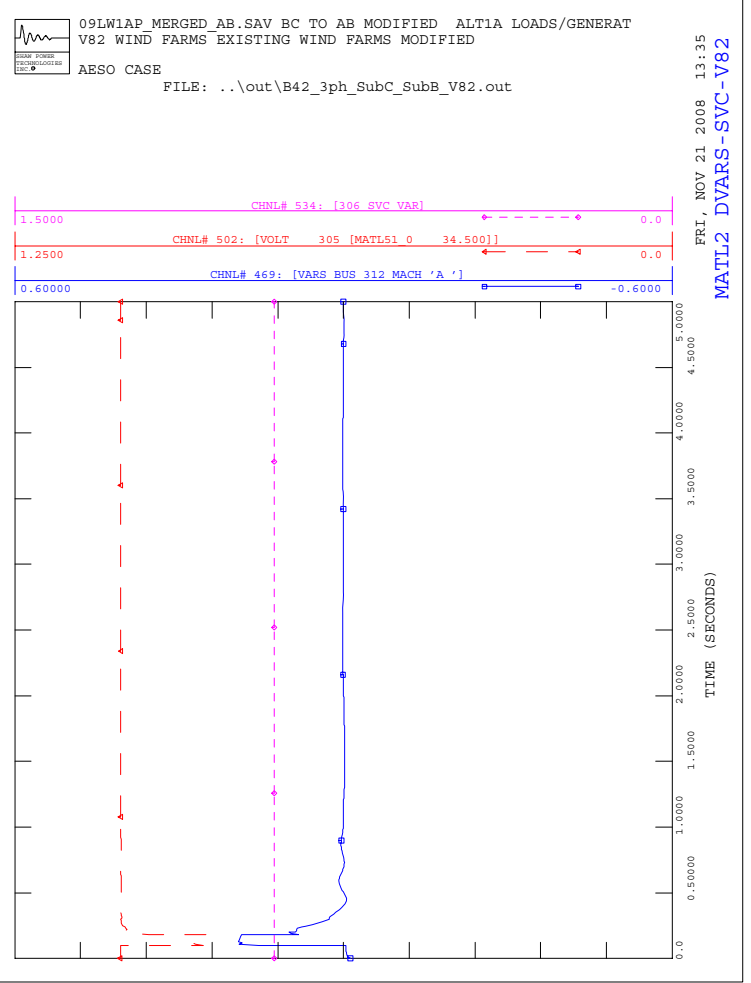
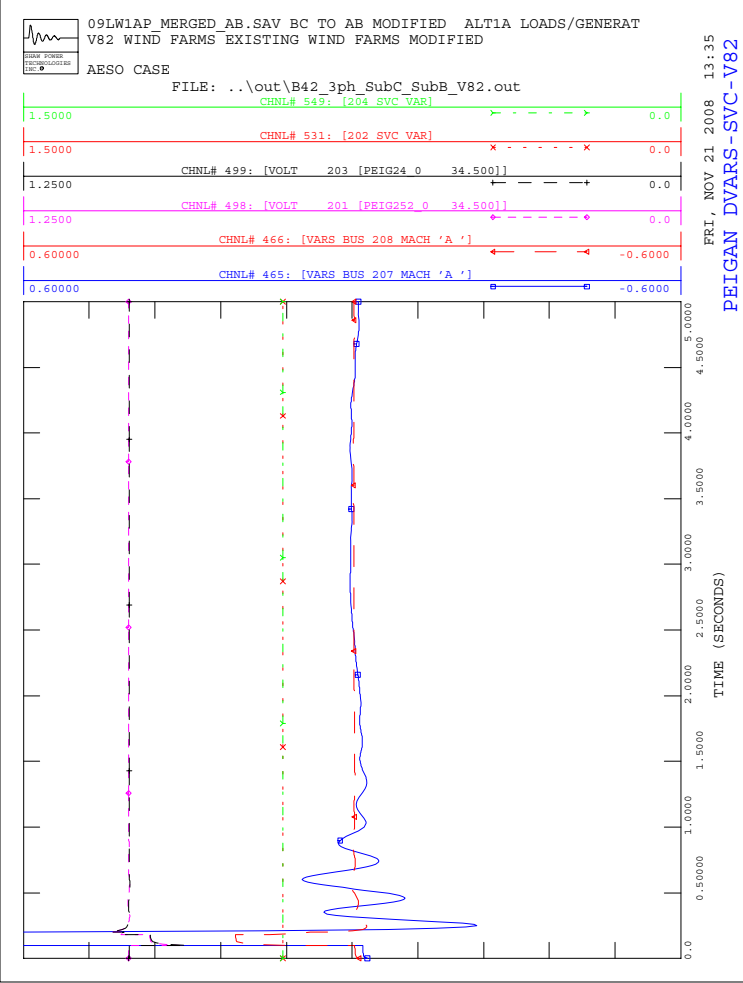
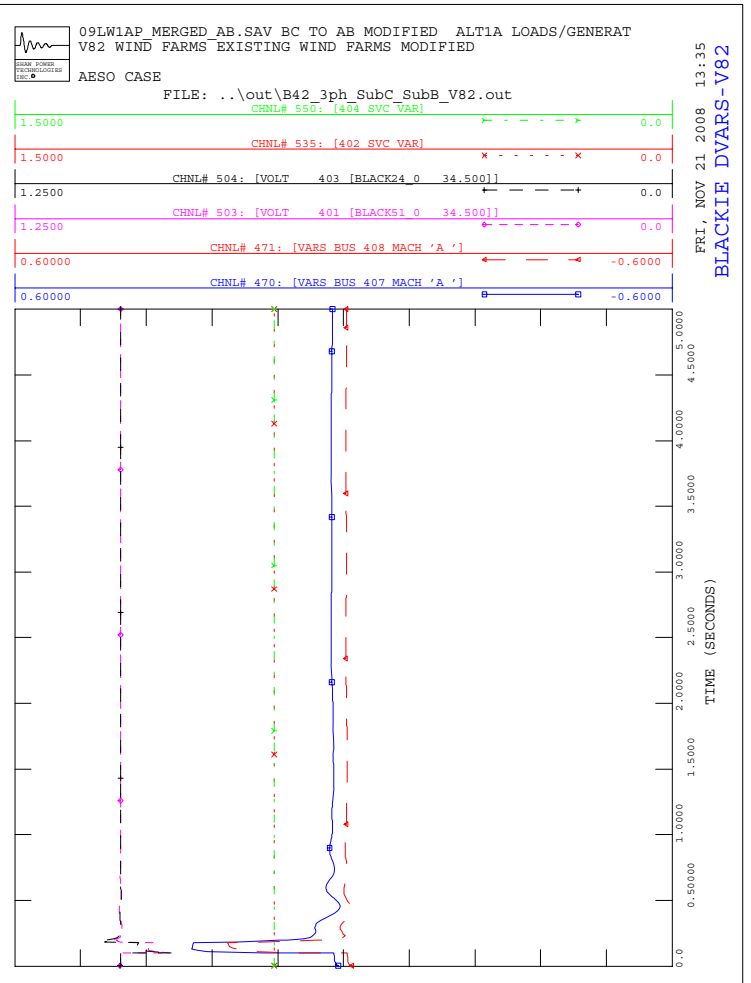
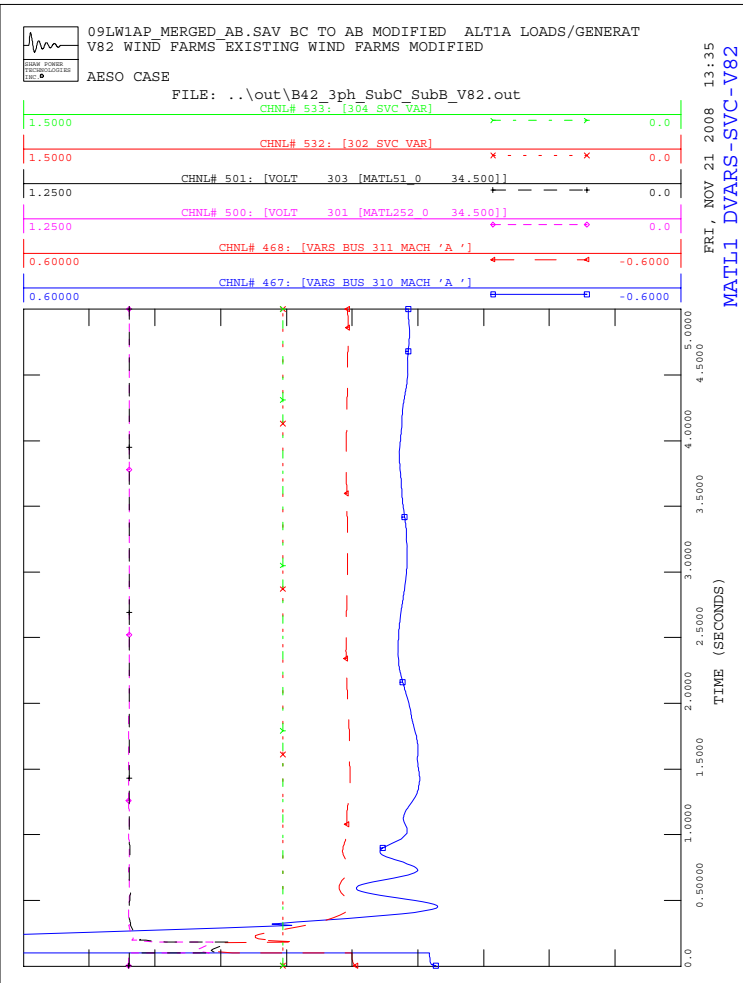


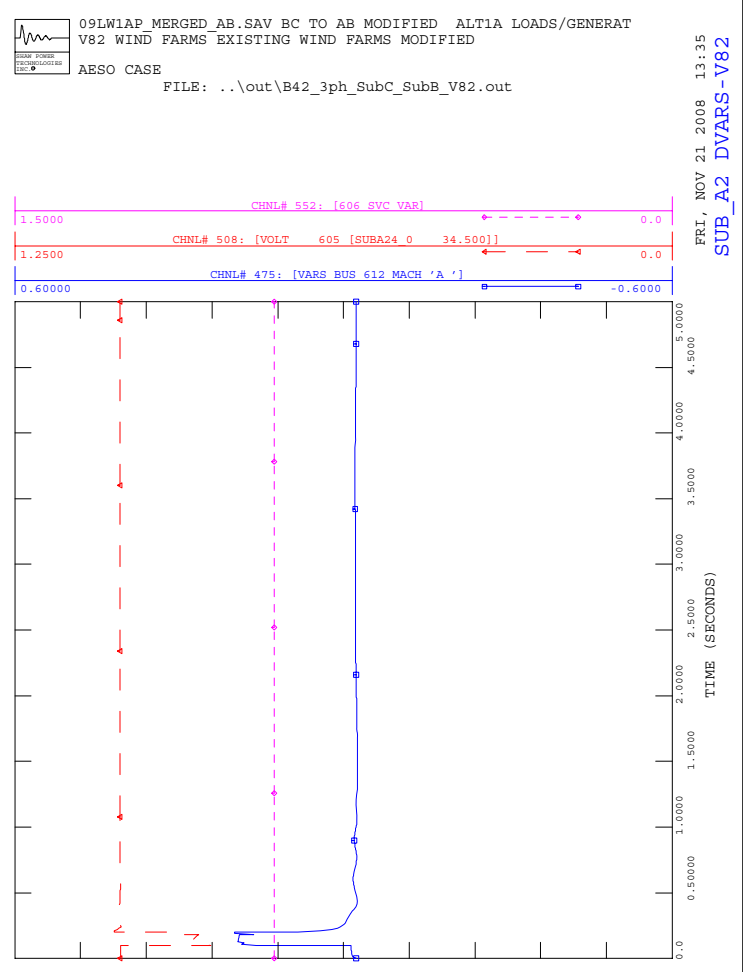
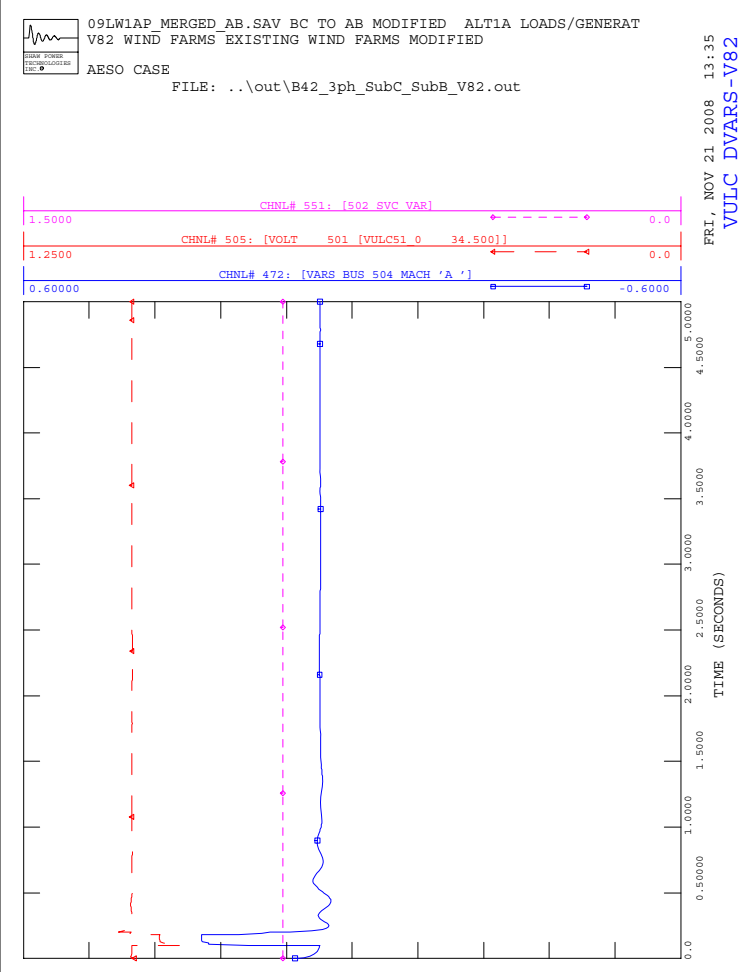
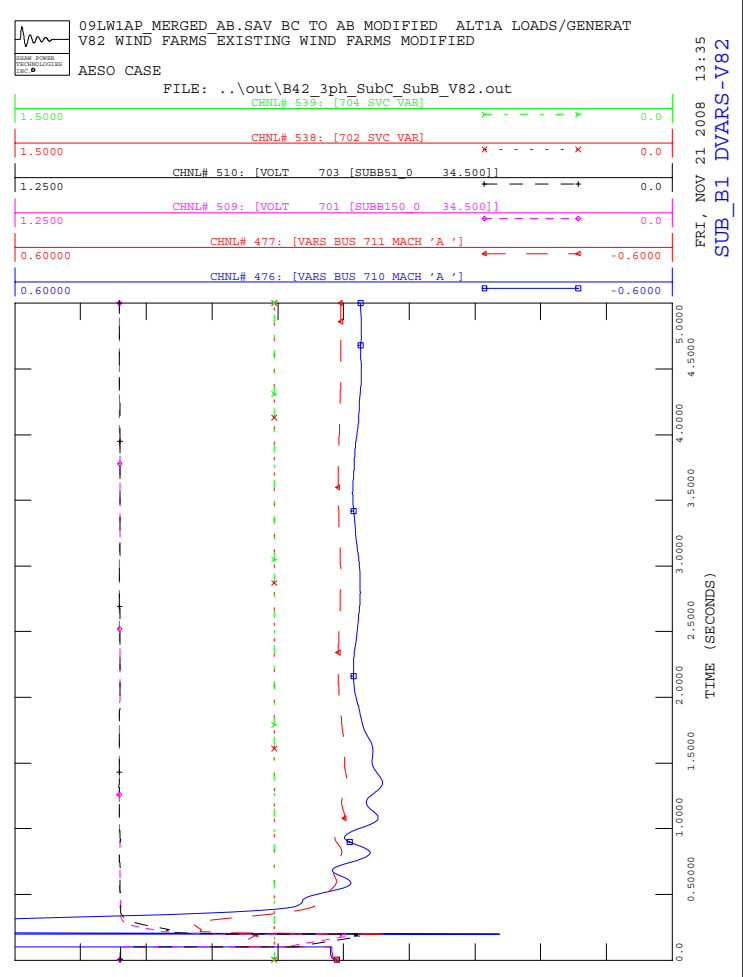
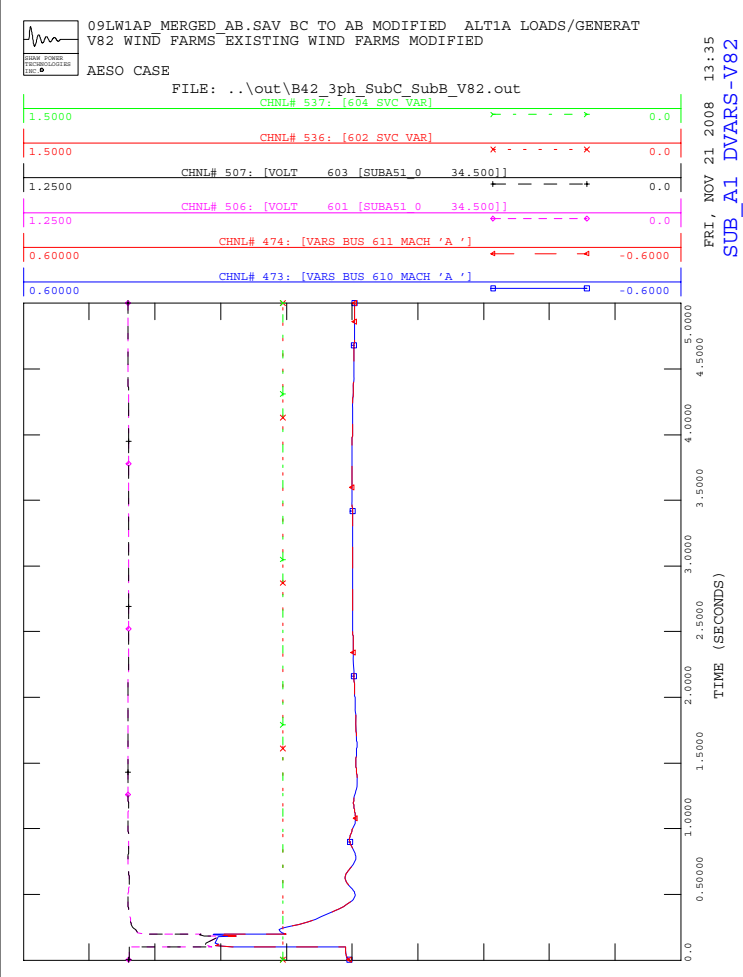
FRI, NOV 21 2008 13:35

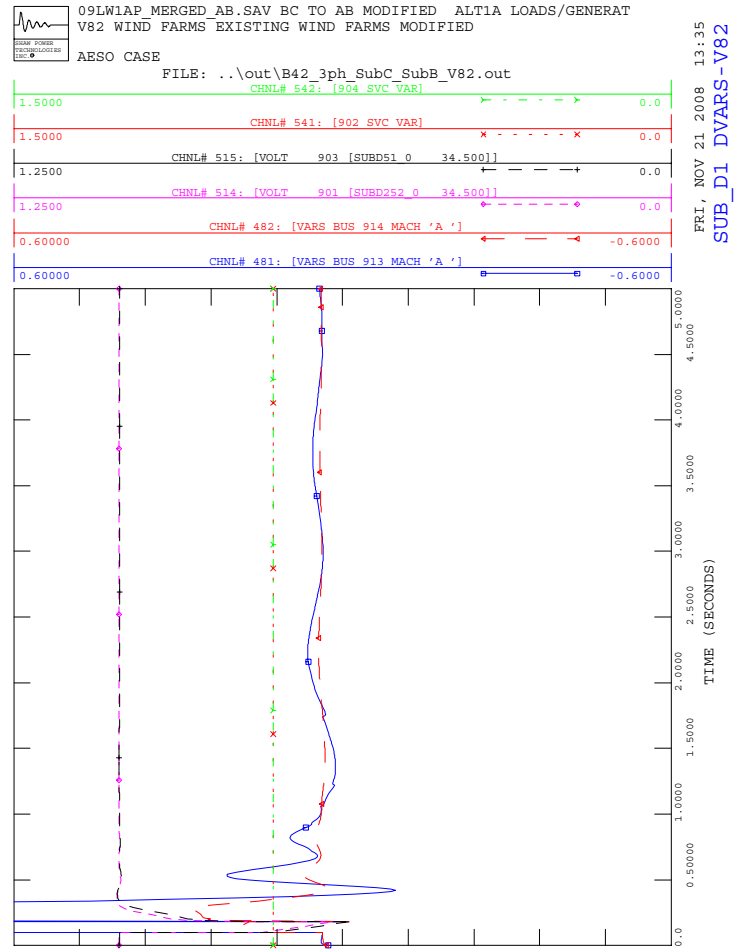
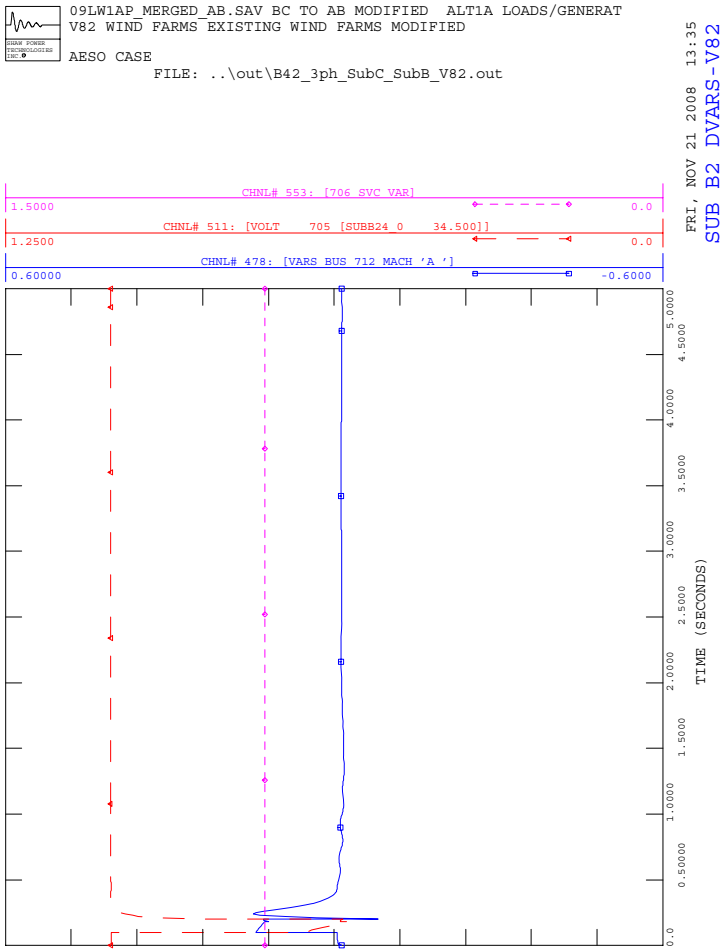
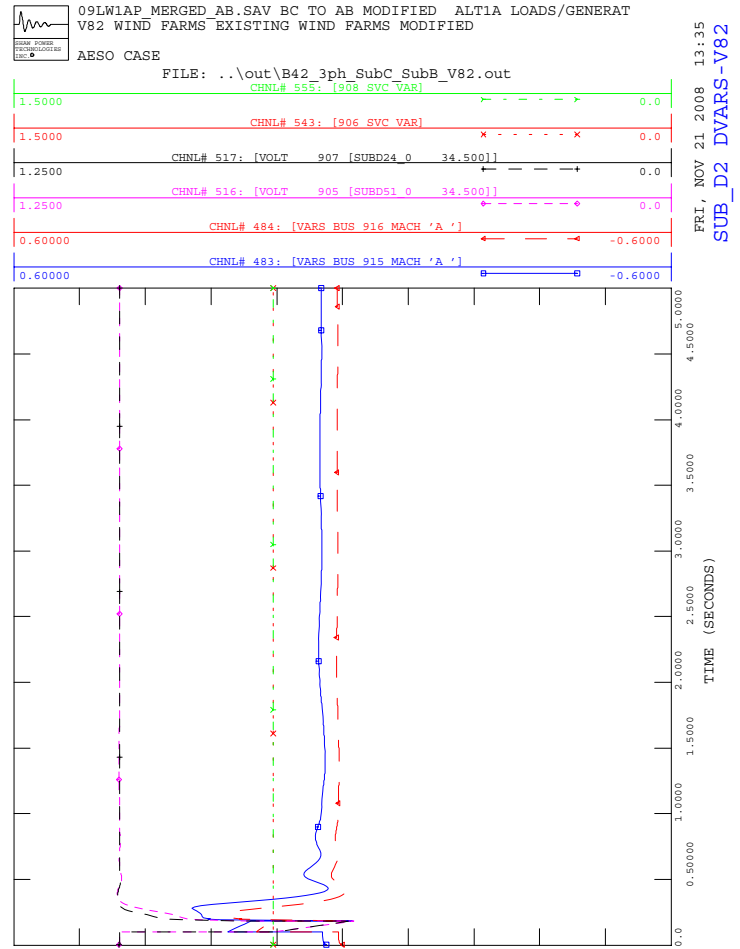
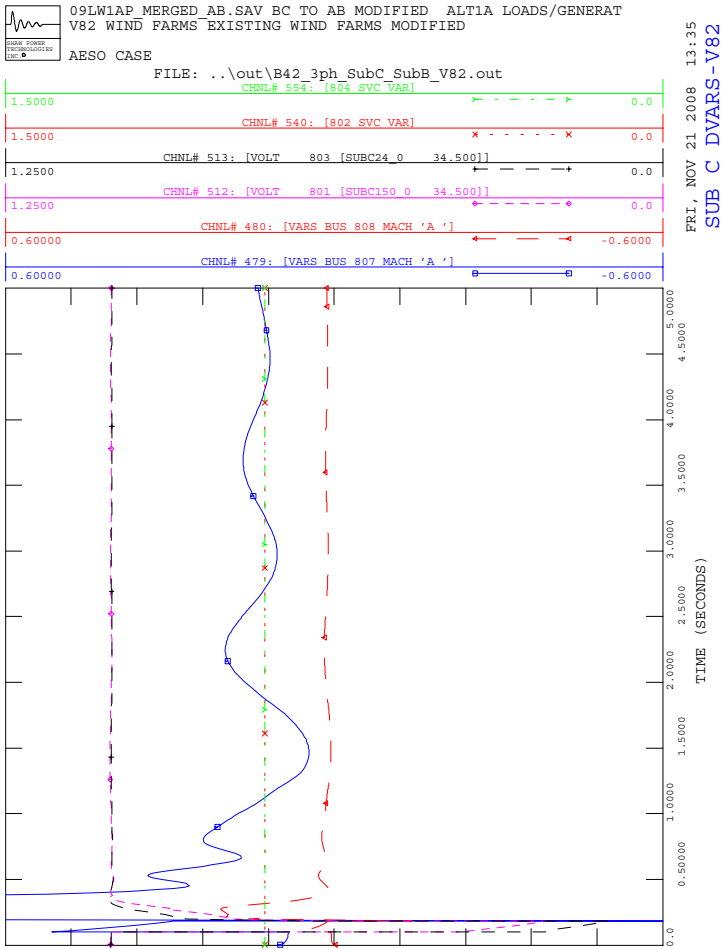


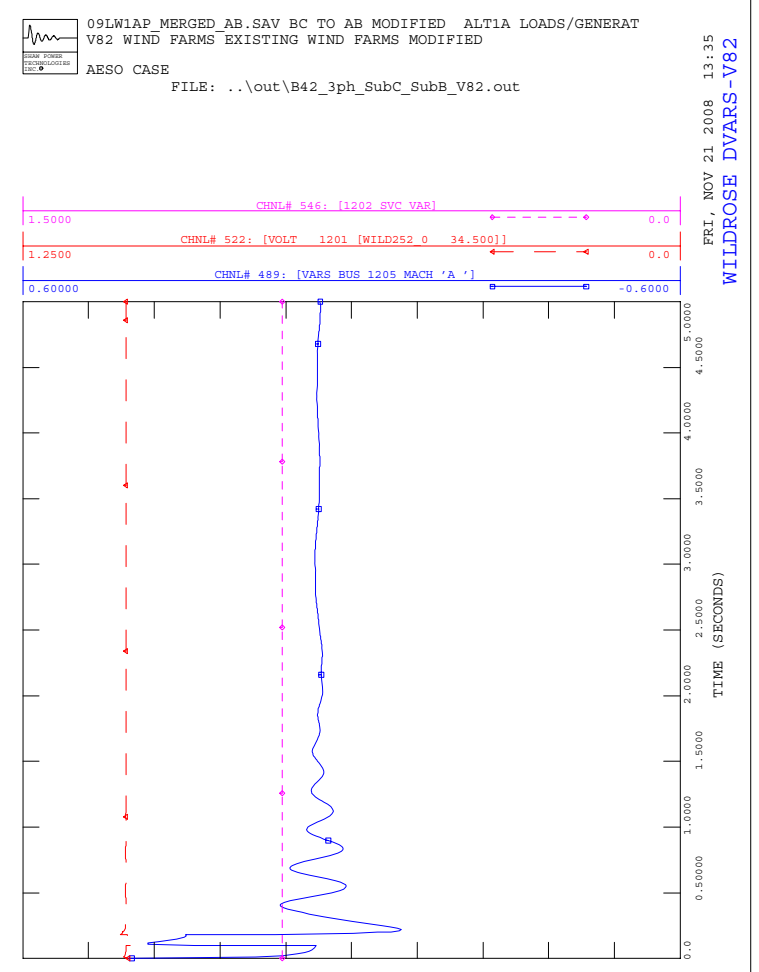
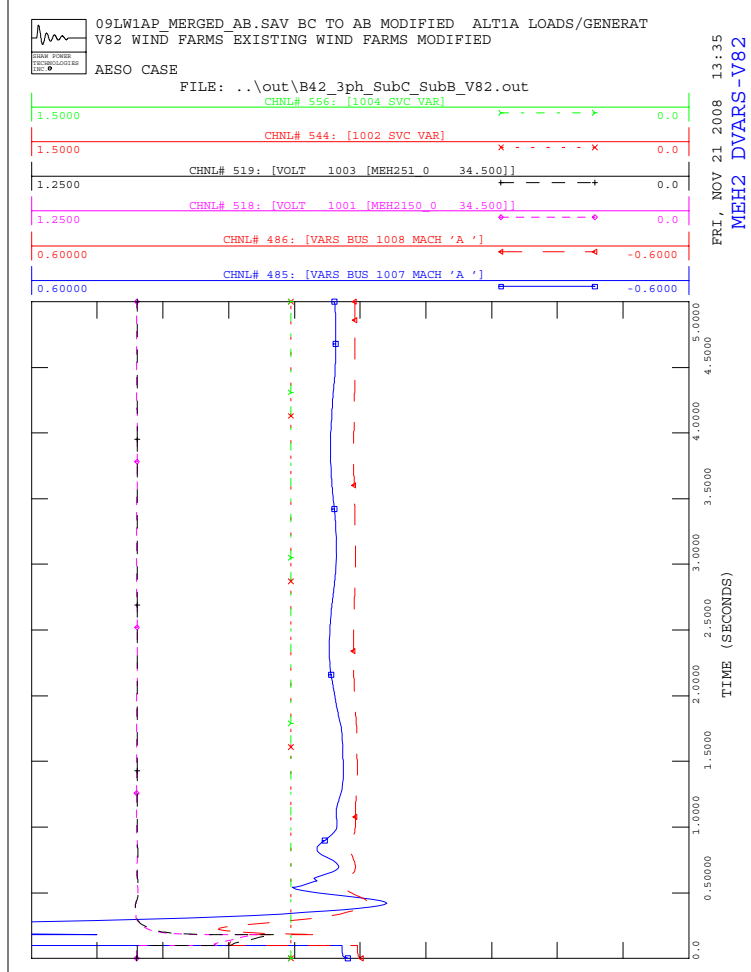
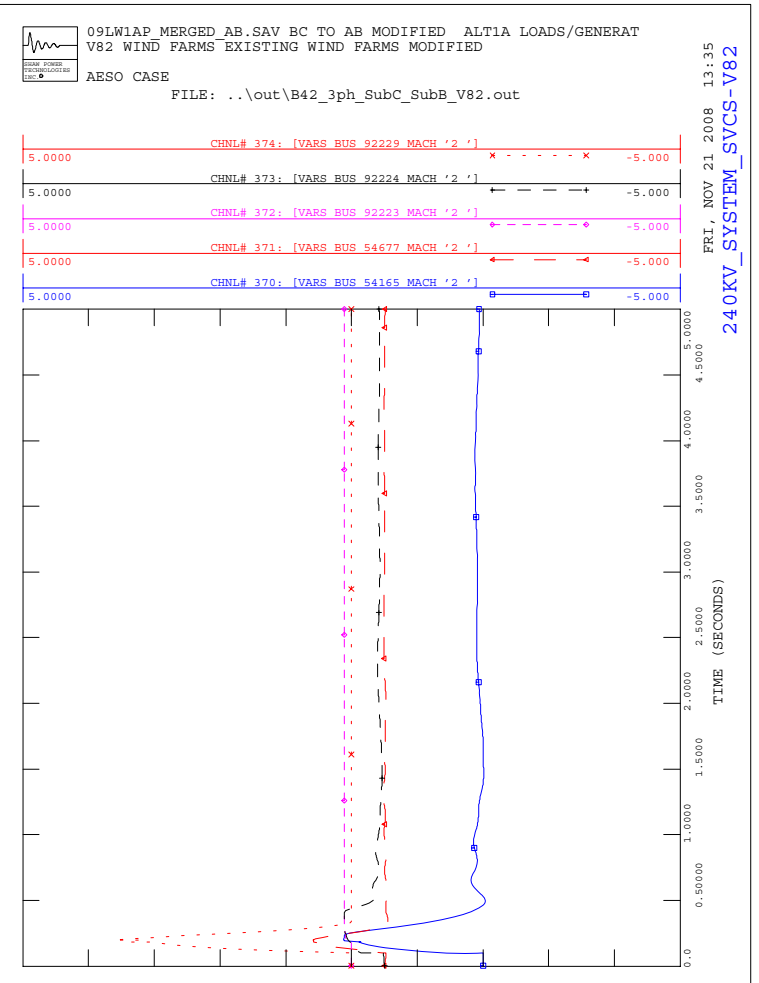
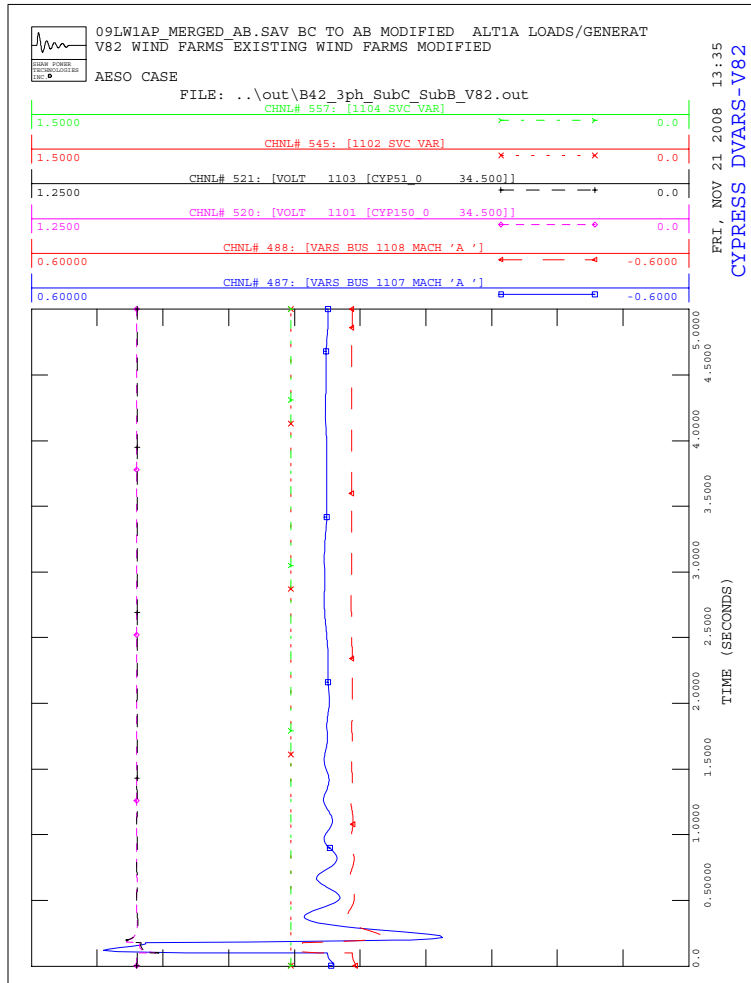












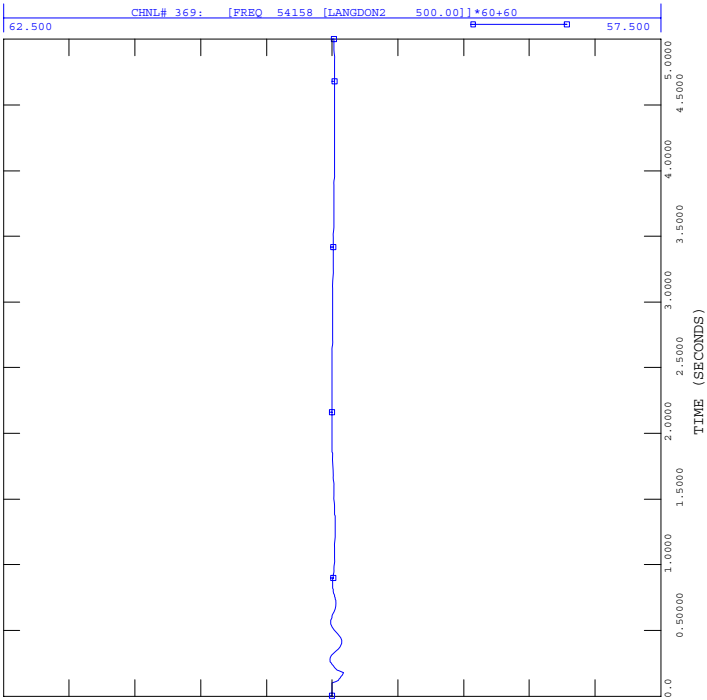


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B42_3ph_SubC_SubB_V82.out

FRI, NOV 21 2008 13:35
LANGDON_FRQ-V82

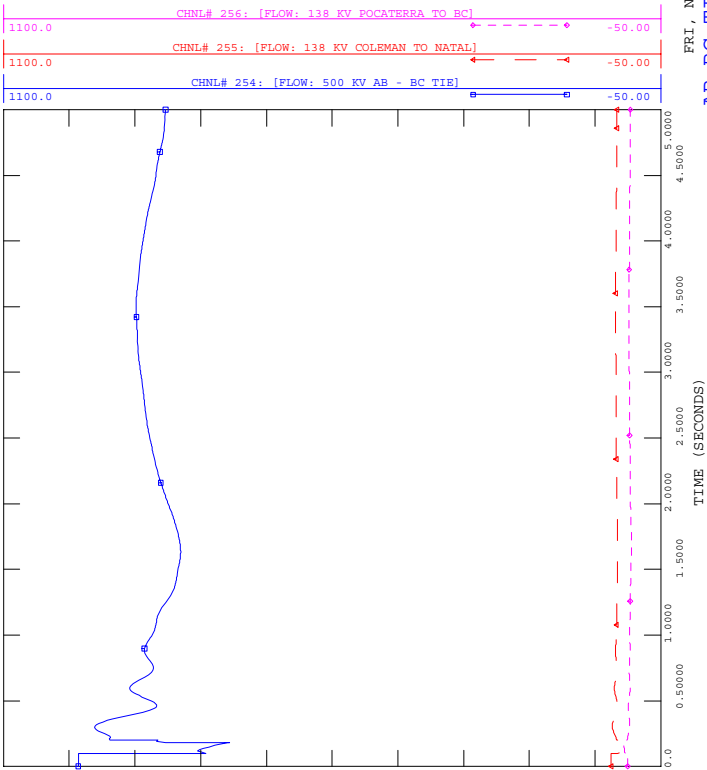


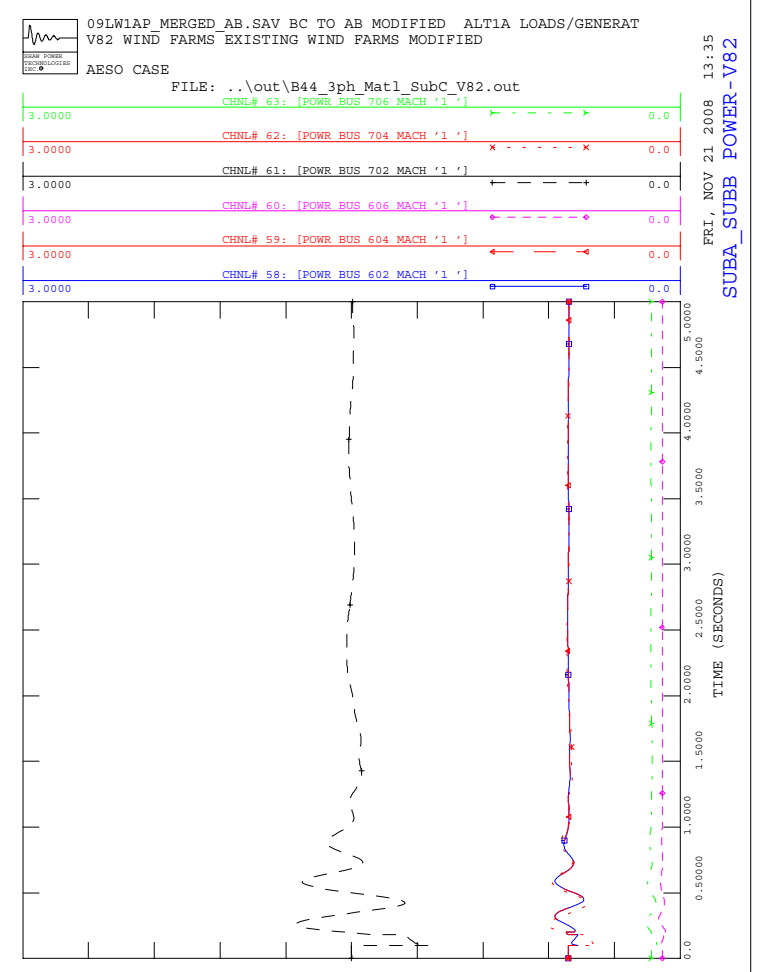
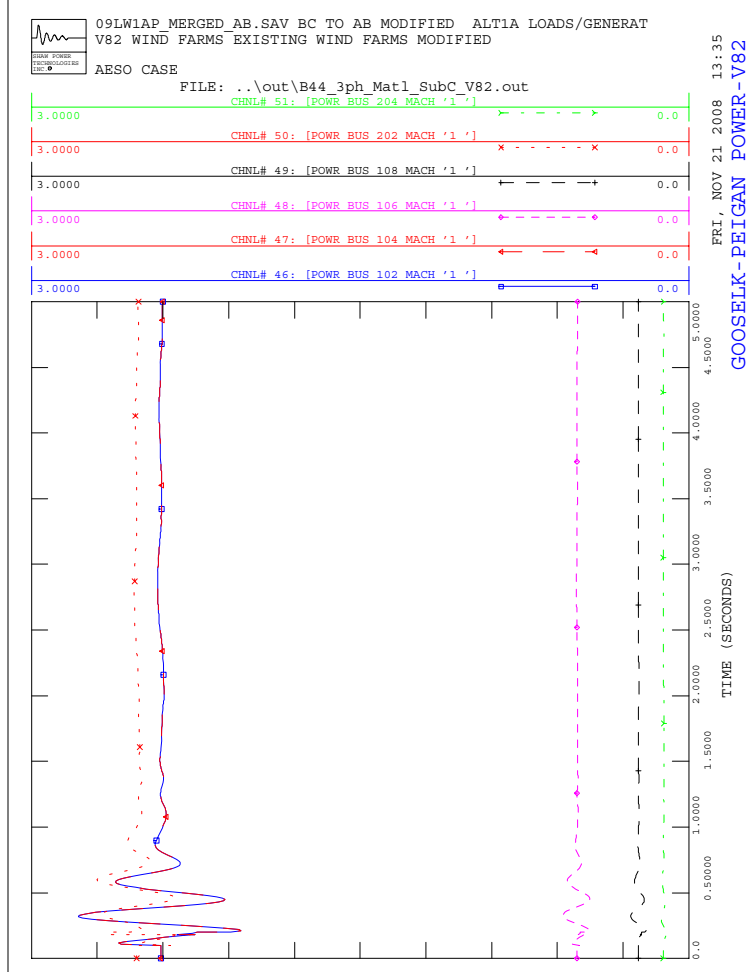
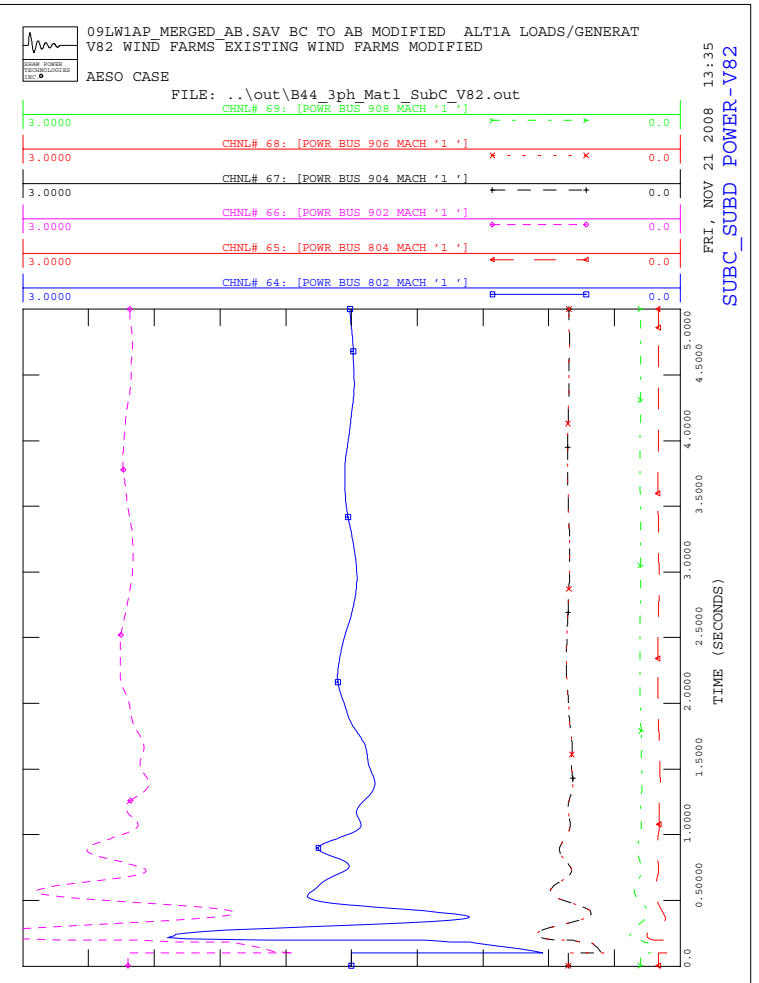
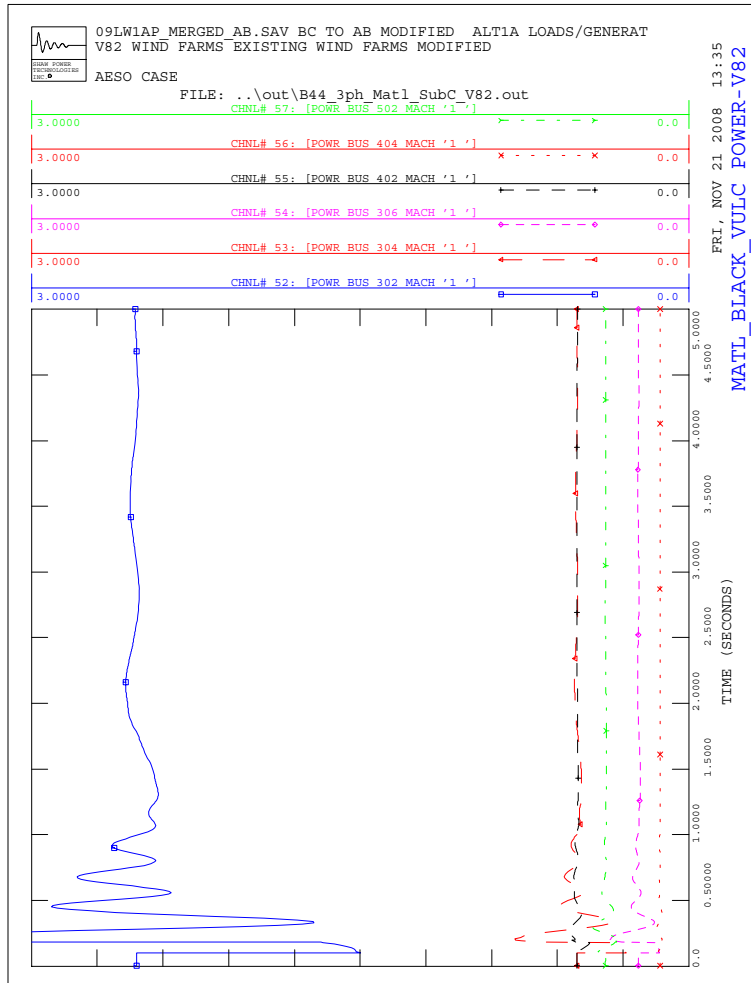
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

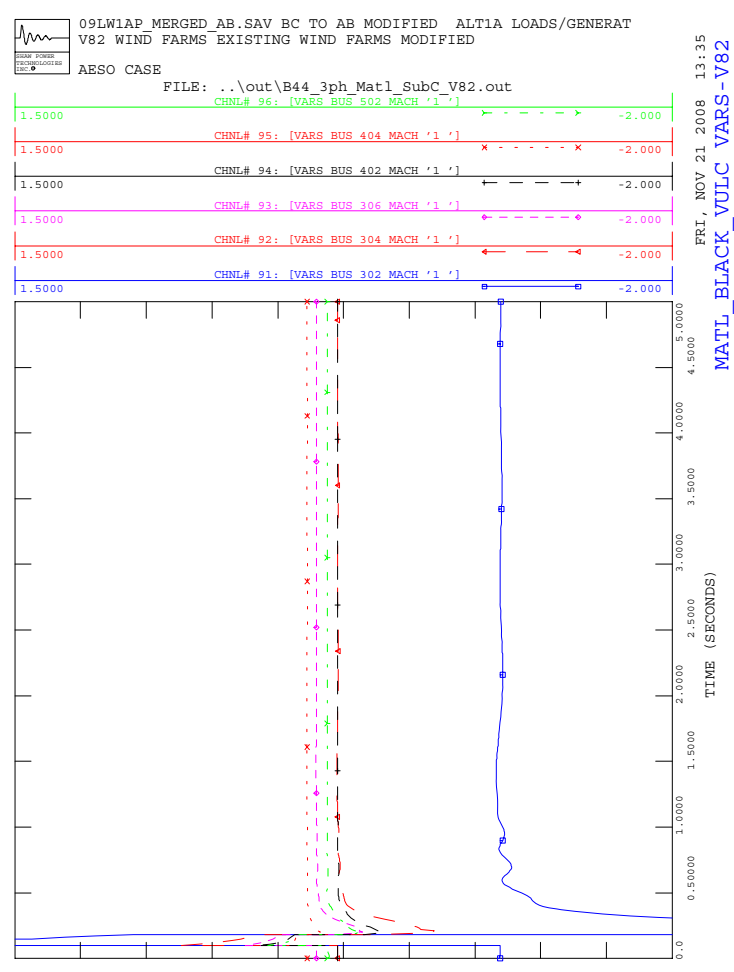
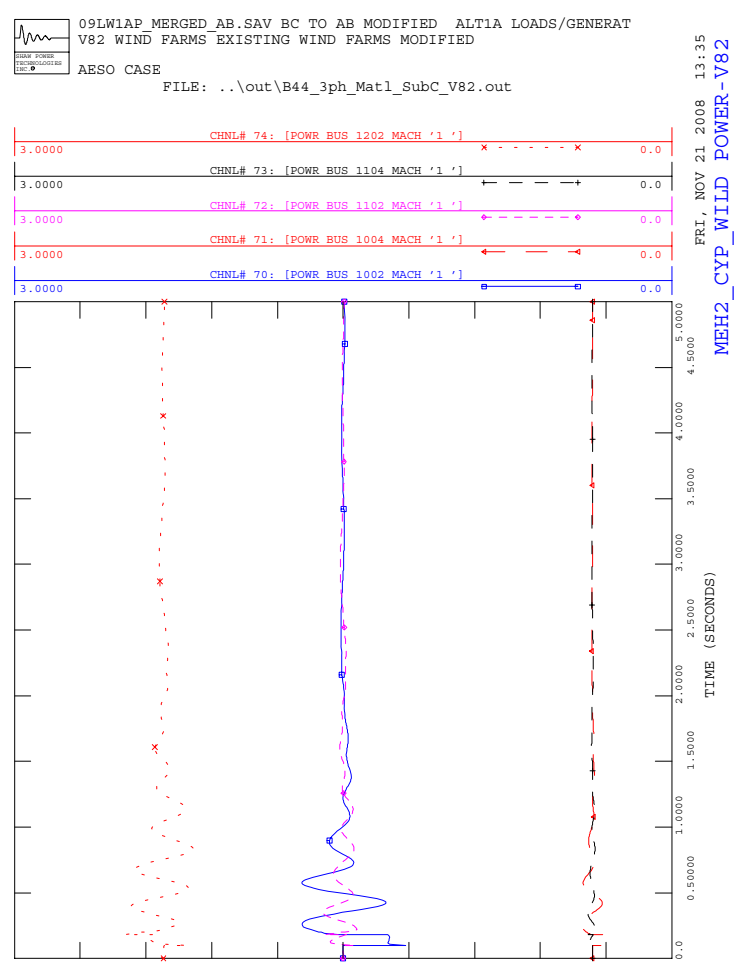
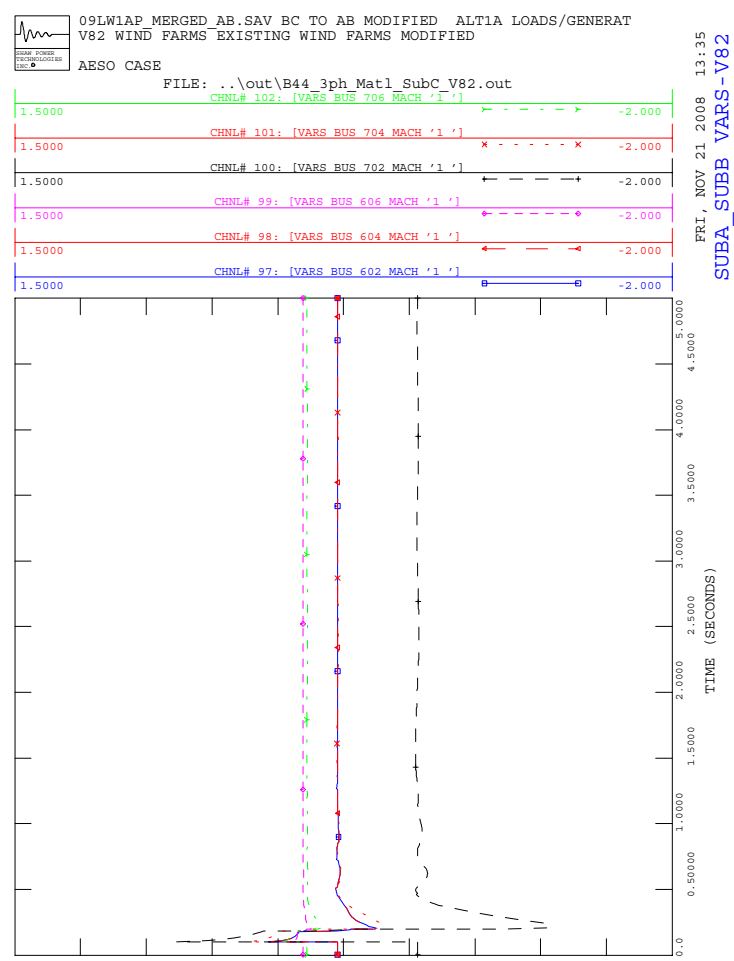
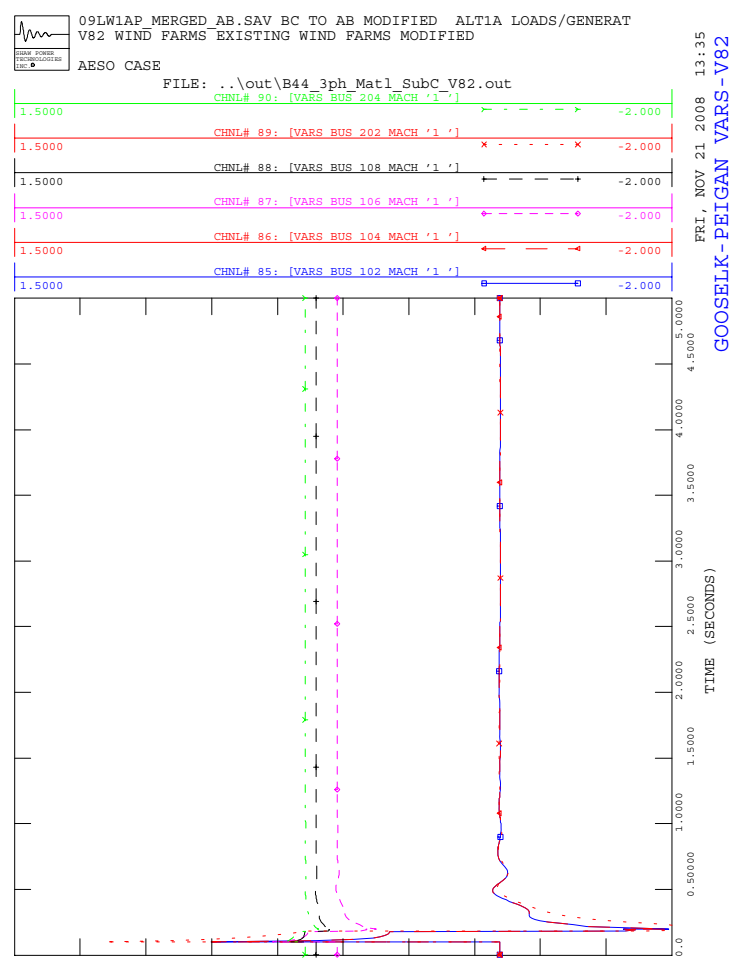
ABSO CASE

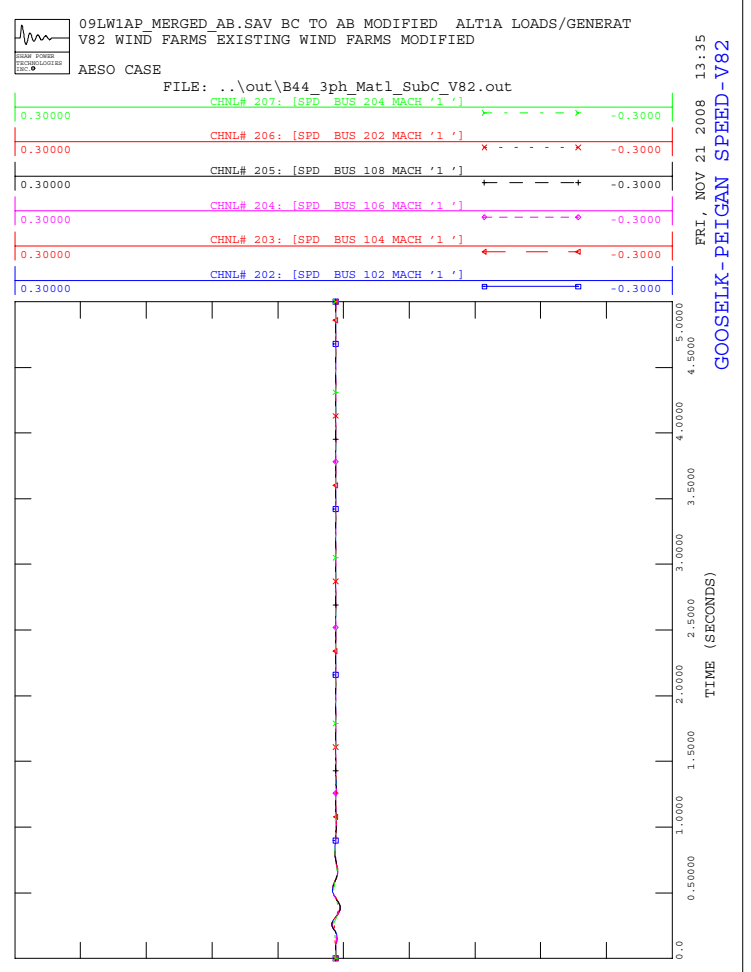
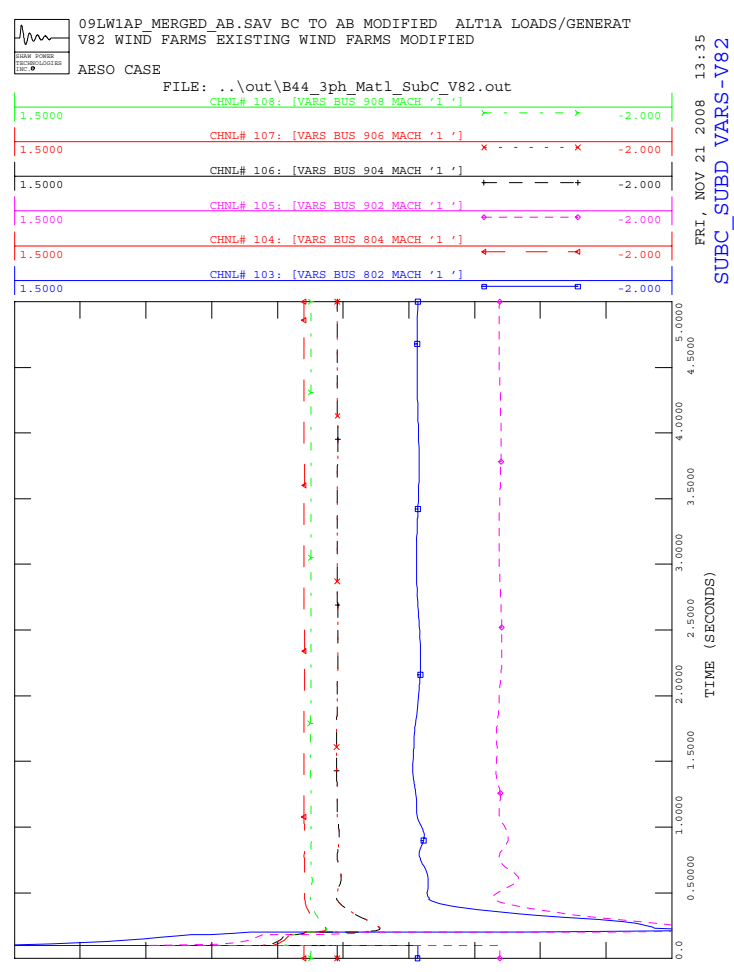
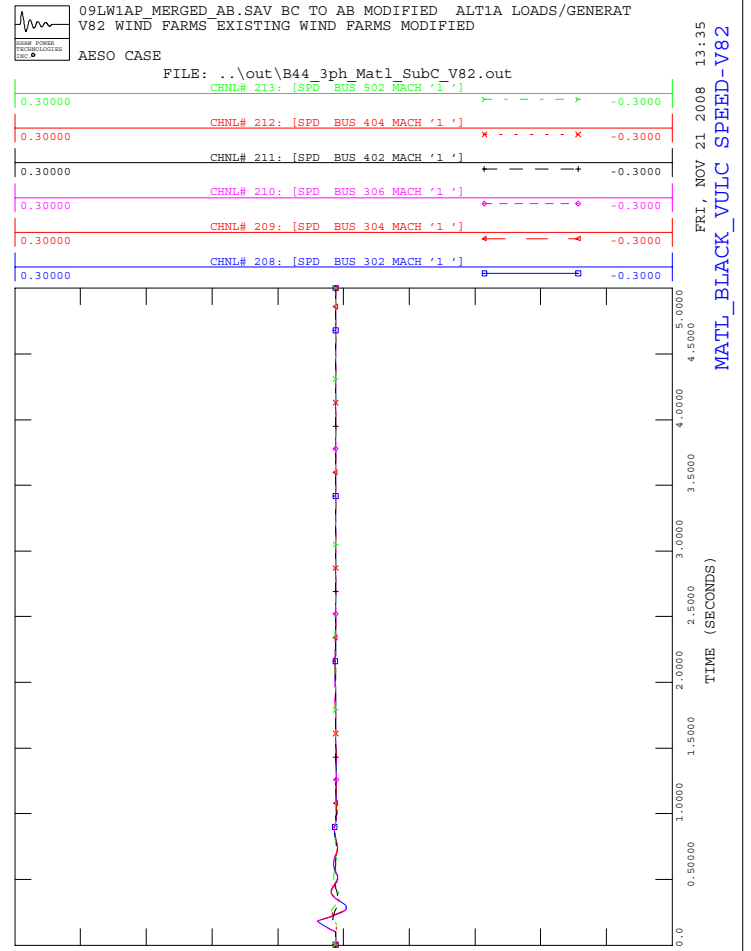
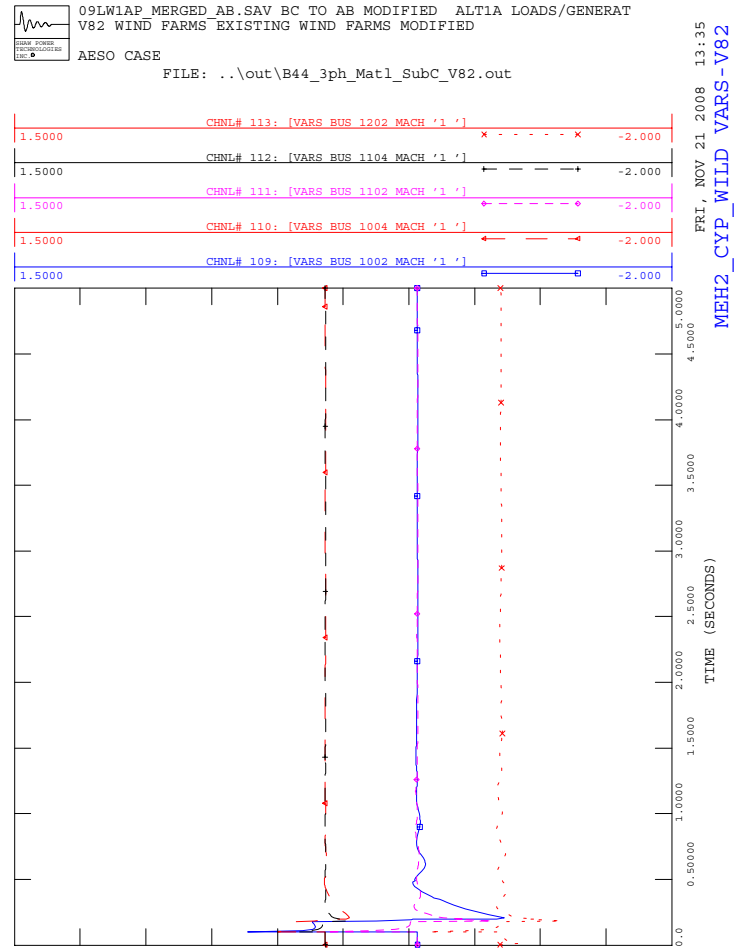
FILE: ..\out\B42_3ph_SubC_SubB_V82.out

FRI, NOV 21 2008 13:35
AB_BC_TIE_FLOWS-V82



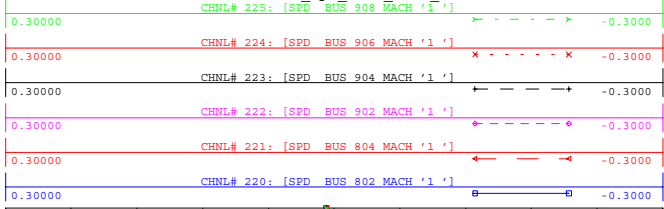




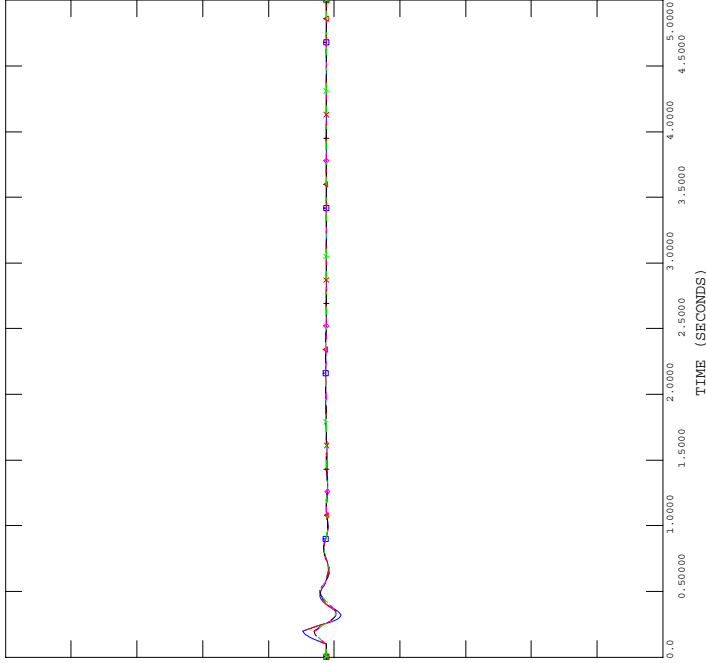


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\B44_3ph_Mat1_SubC_V82.out
 CHNL# 225: [SPD_BUS 908 MACH '1 ']

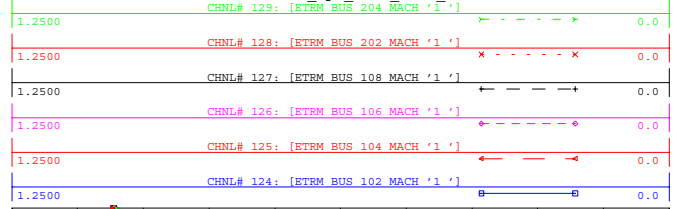


FRI, NOV 21 2008 13:35
 SUBC_SUBD SPEED -V82

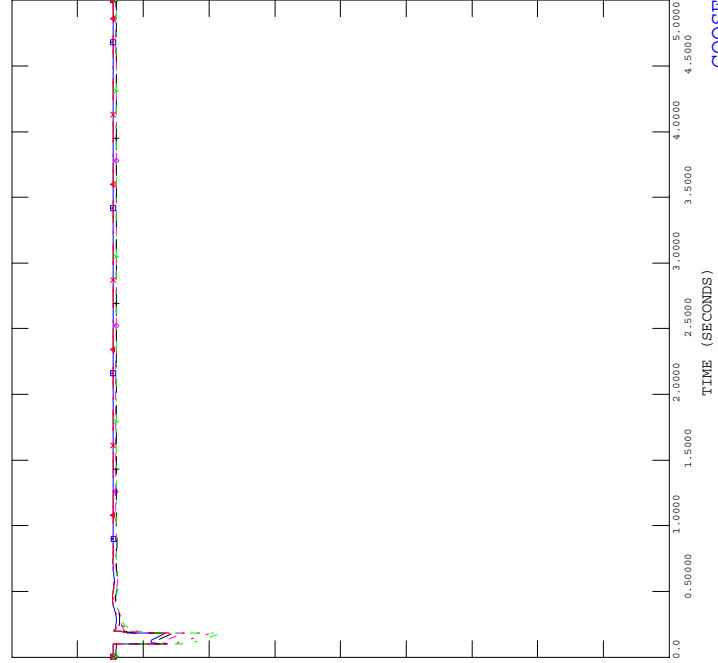


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\B44_3ph_Mat1_SubC_V82.out
 CHNL# 129: [ETRM_BUS 204 MACH '1 ']

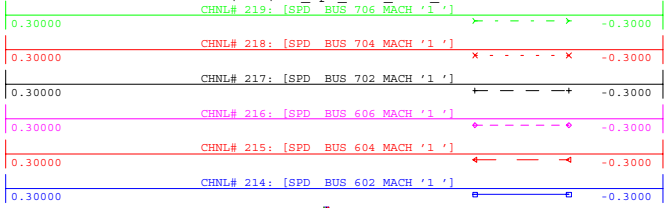


FRI, NOV 21 2008 13:35
 GOOSELK-PEIGAN ETERM -V82

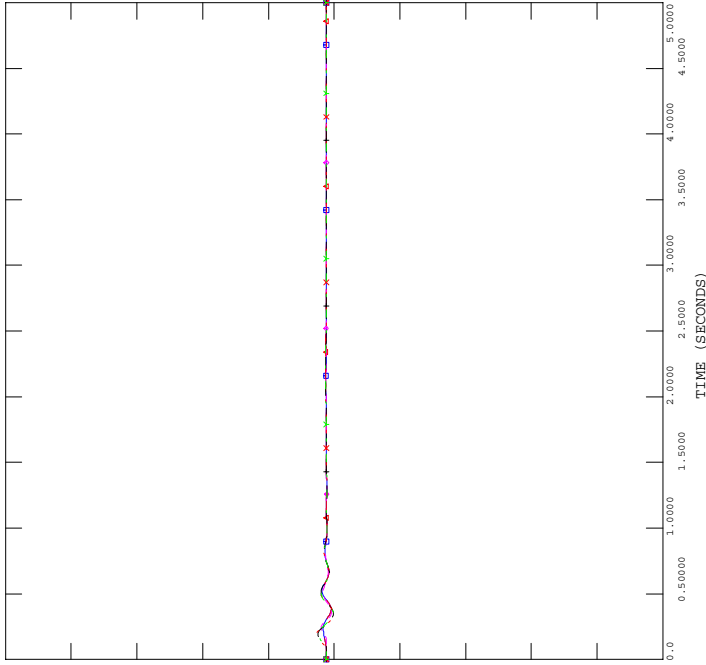


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\B44_3ph_Mat1_SubC_V82.out
 CHNL# 219: [SPD_BUS 706 MACH '1 ']

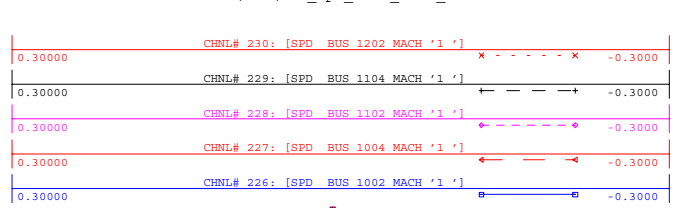


FRI, NOV 21 2008 13:35
 SUBA_SUBD SPEED -V82

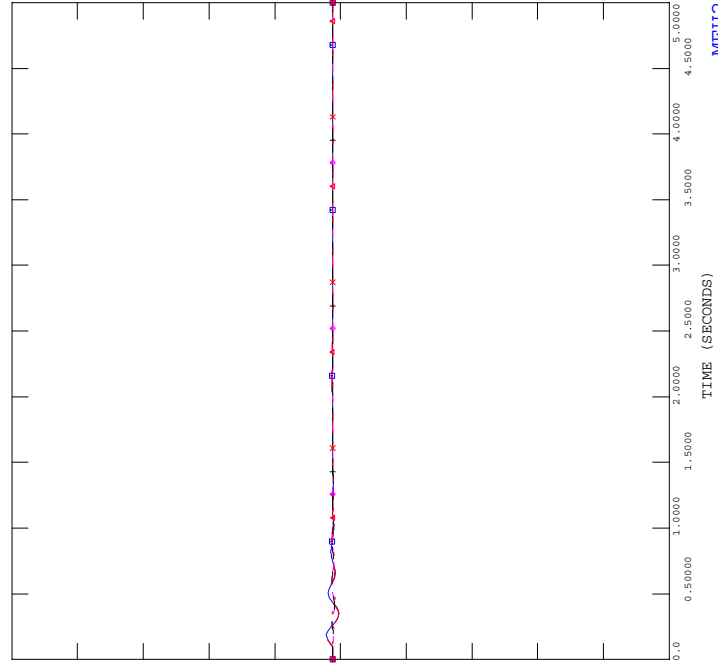


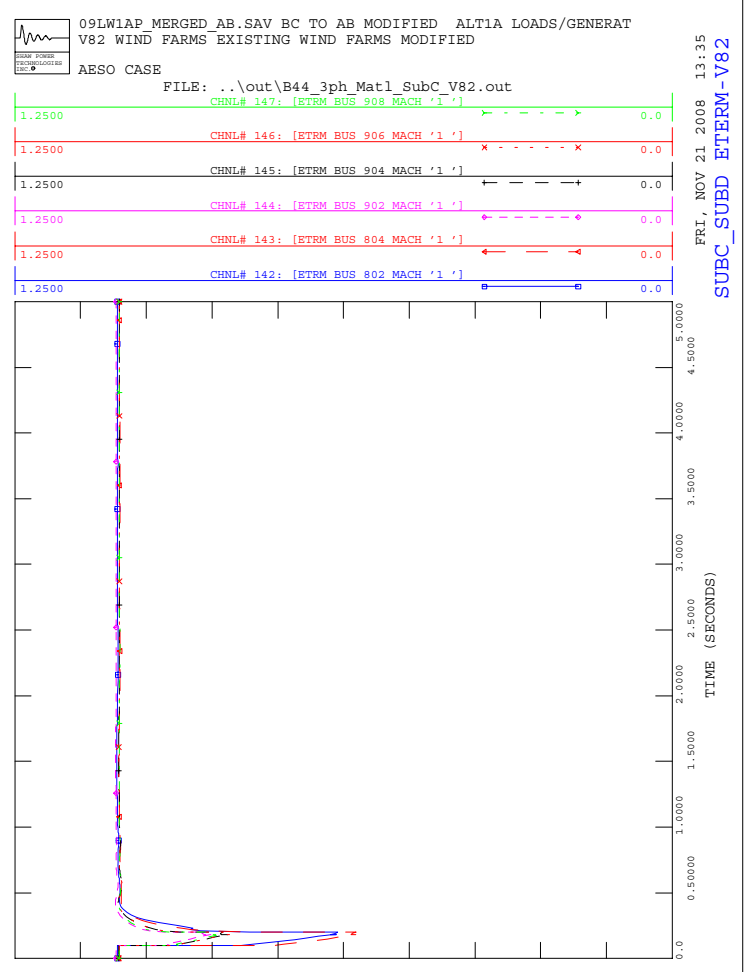
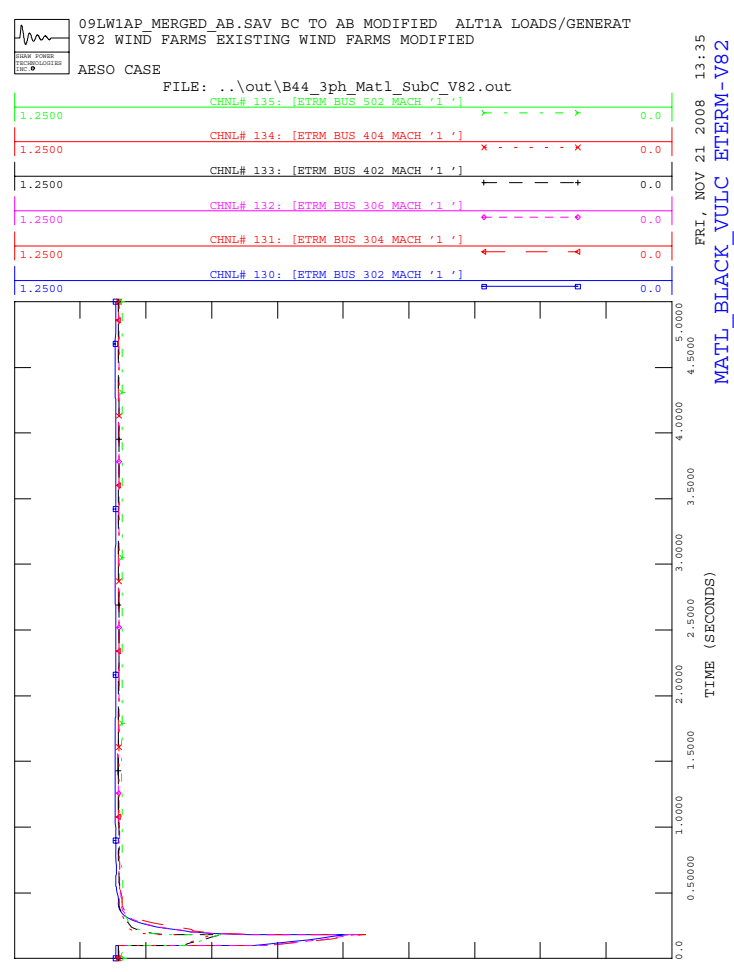
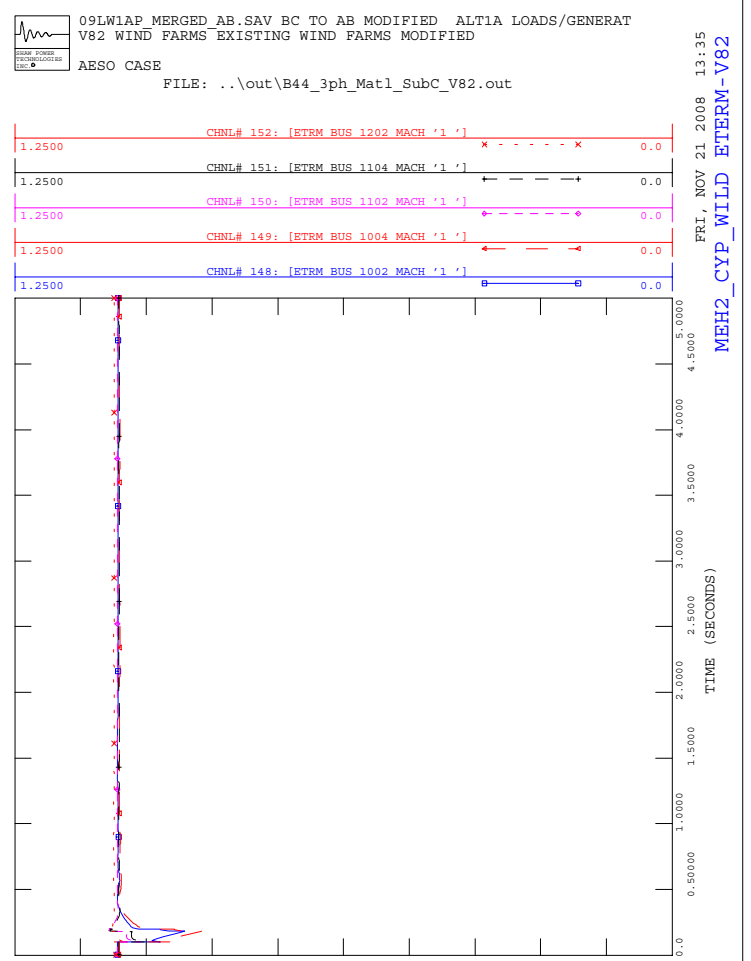
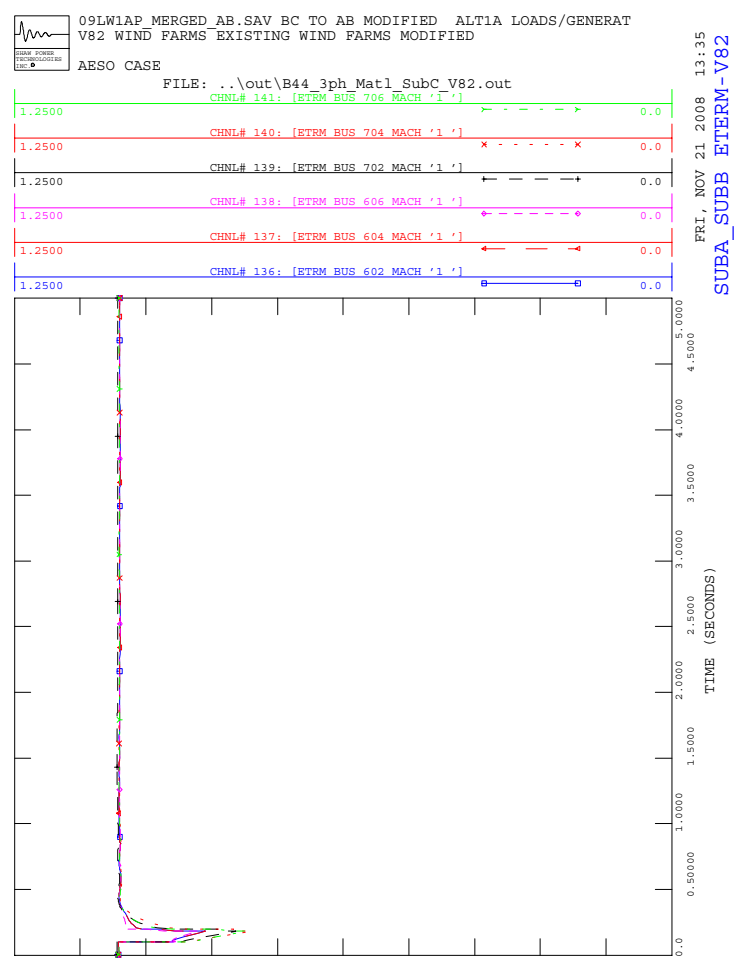
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

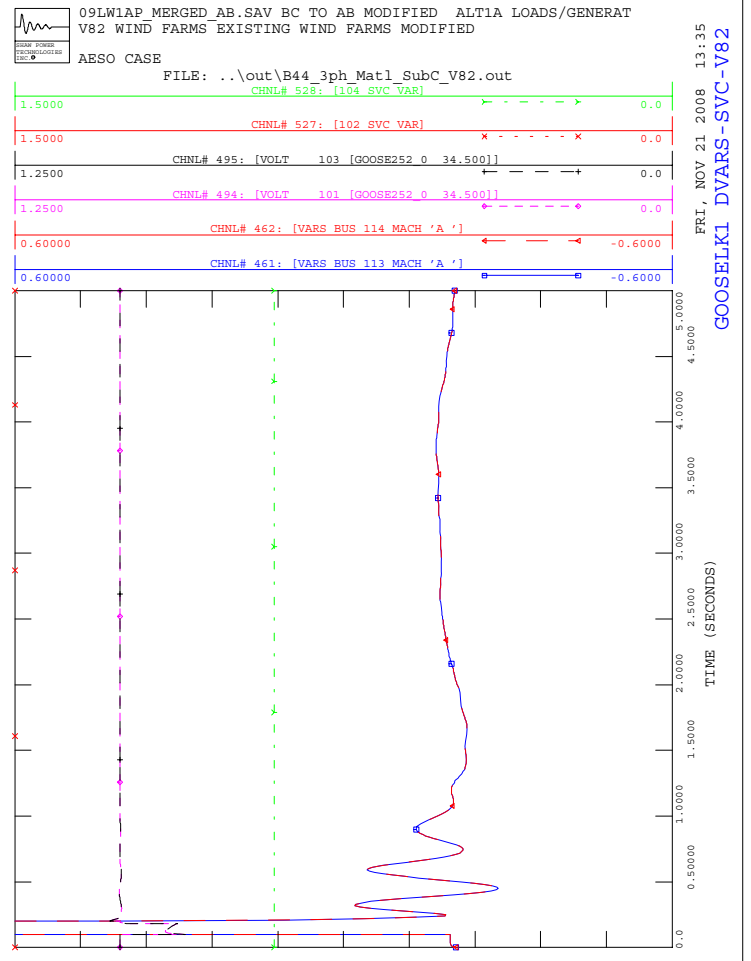
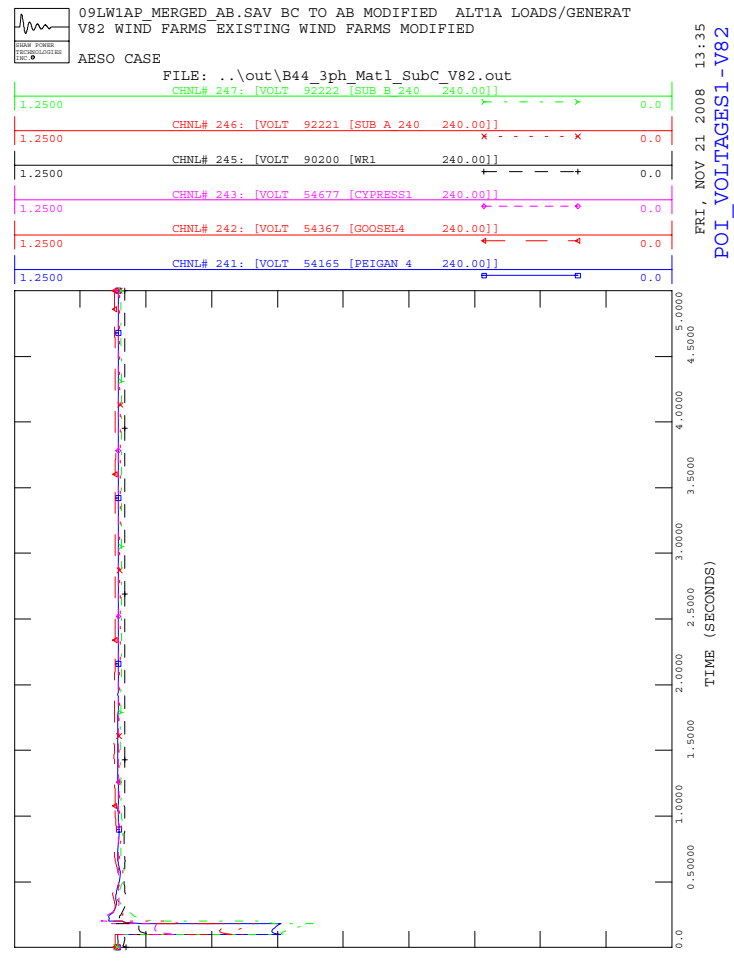
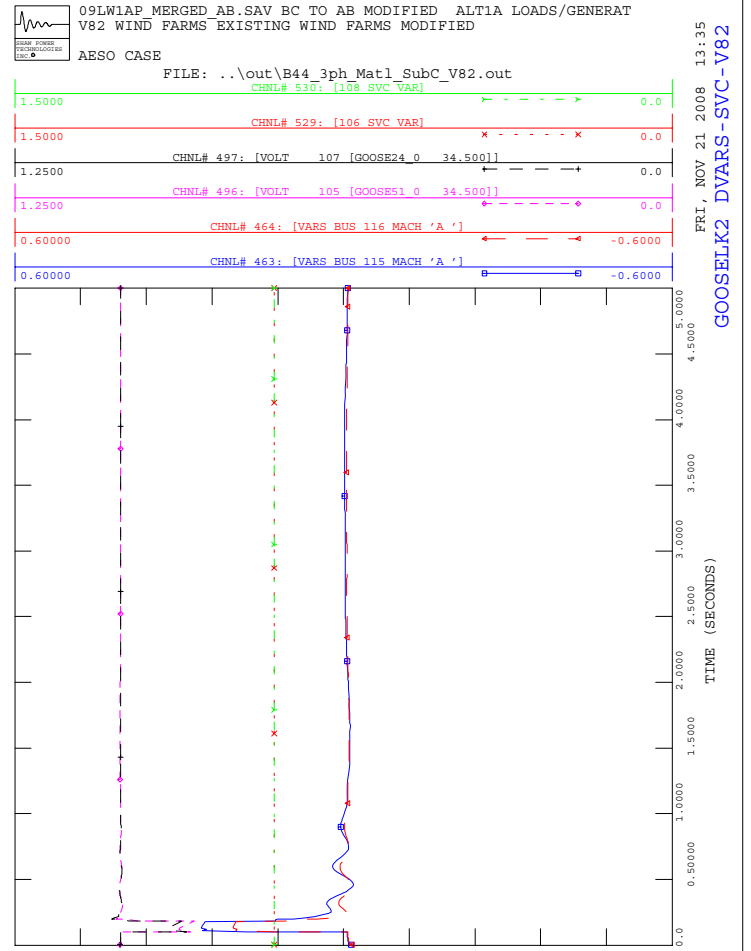
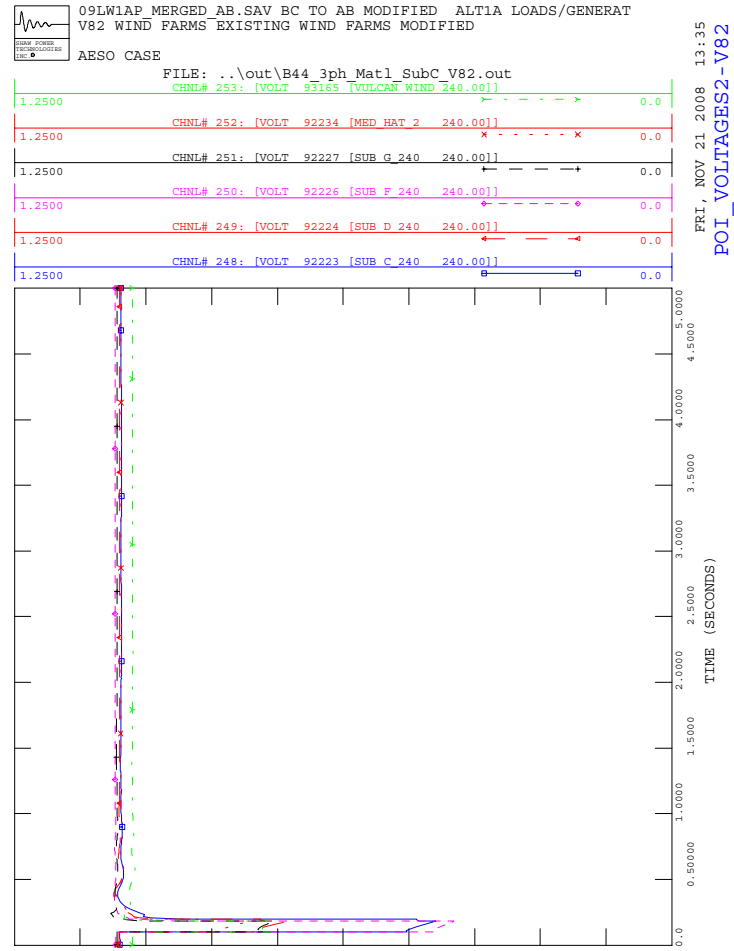
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 CHNL# 230: [SPD_BUS 1202 MACH '1 ']

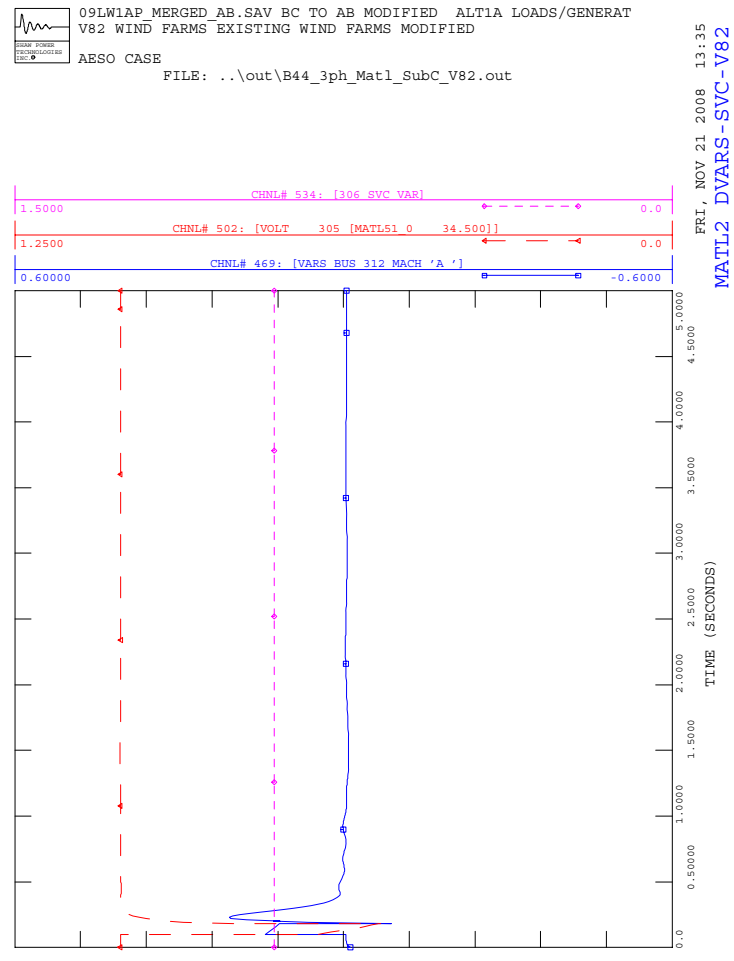
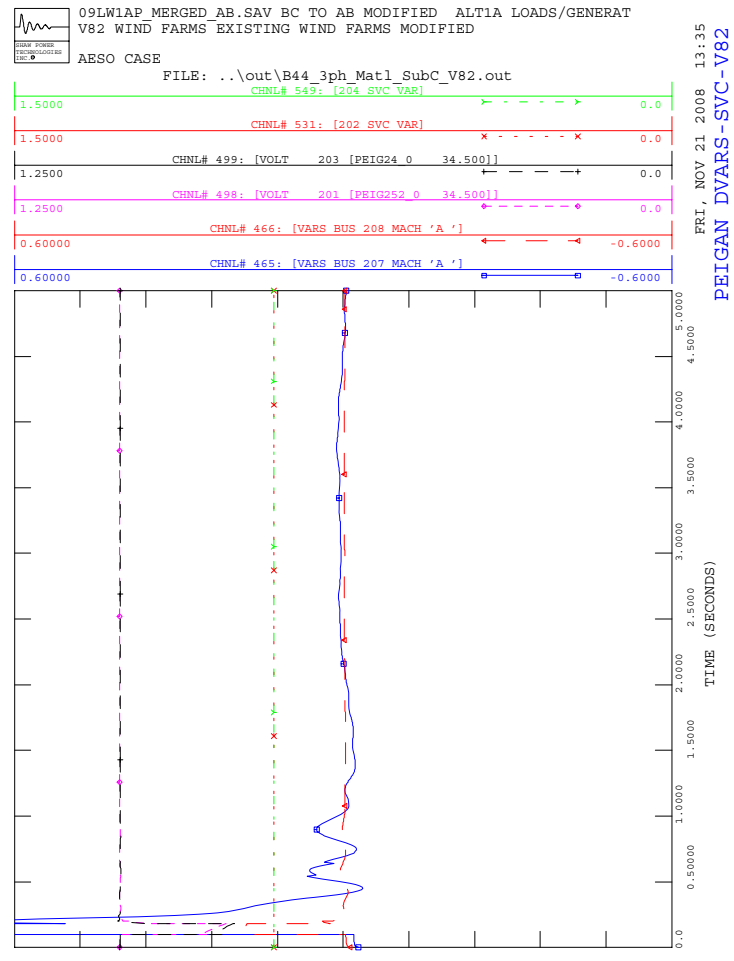
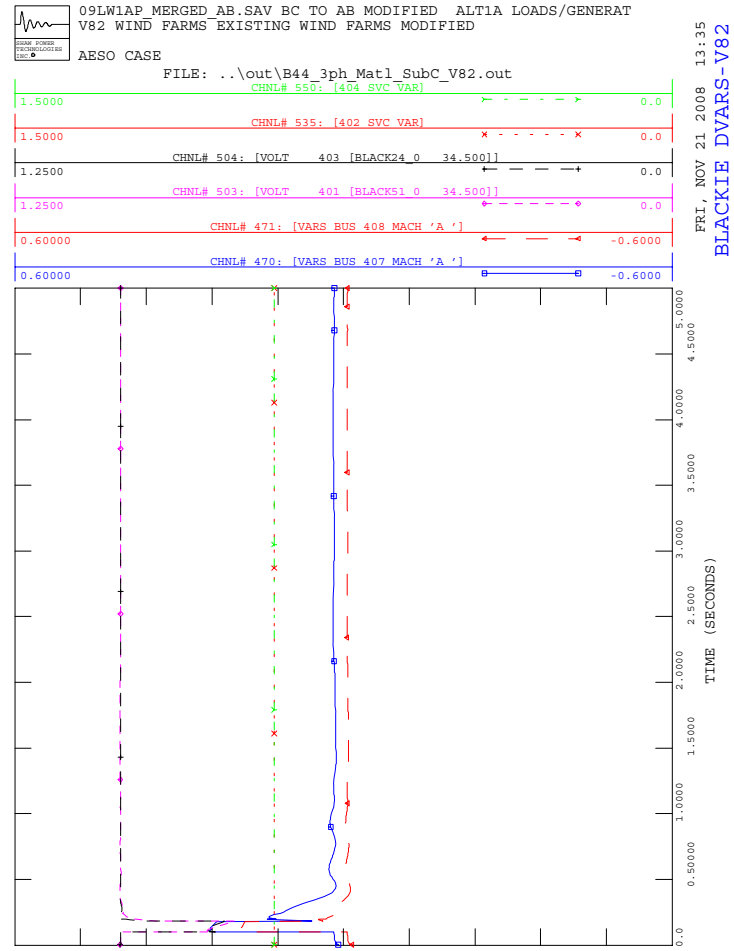
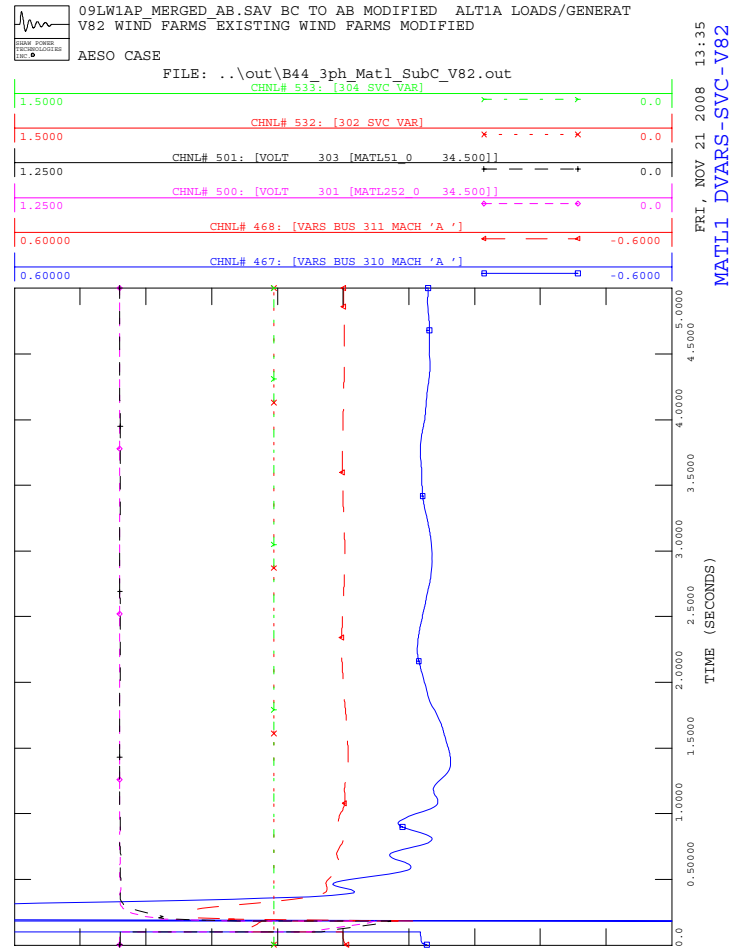


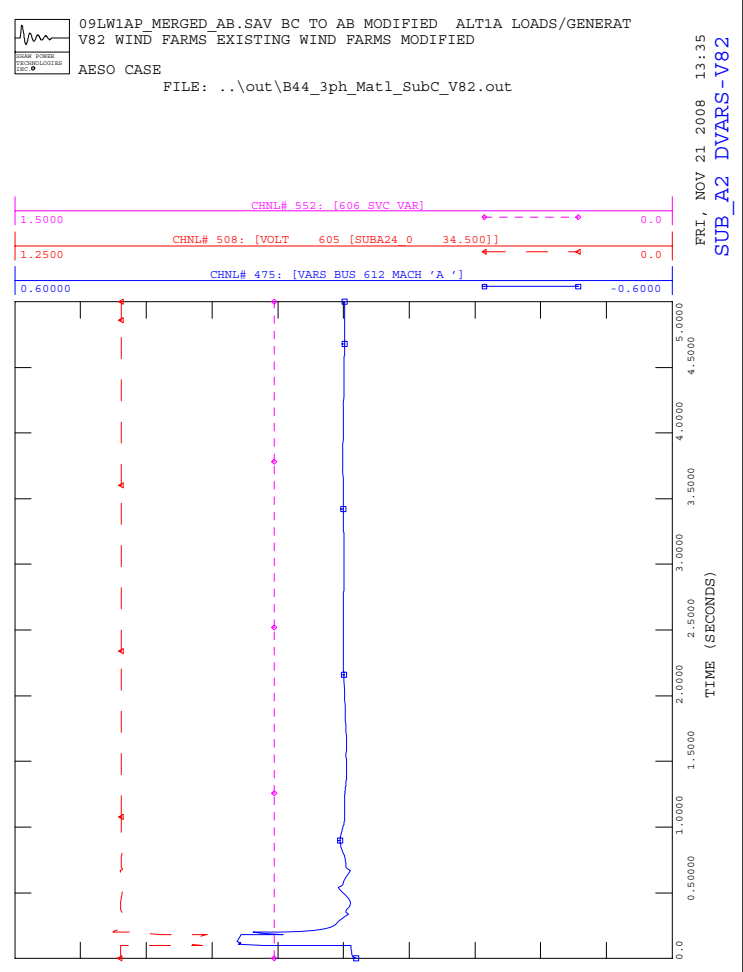
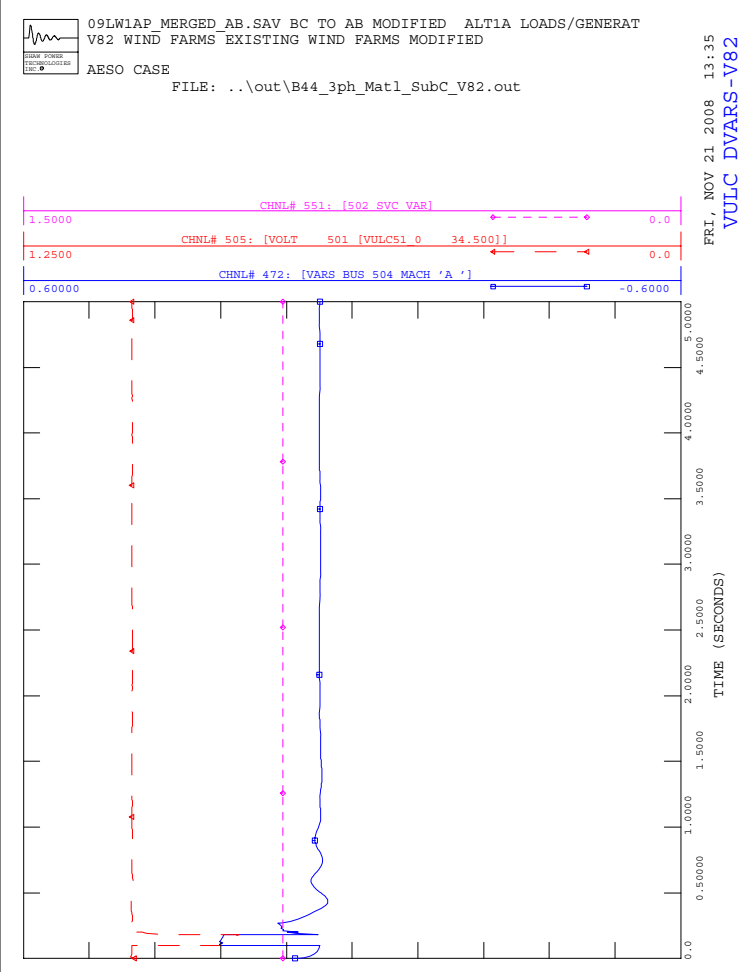
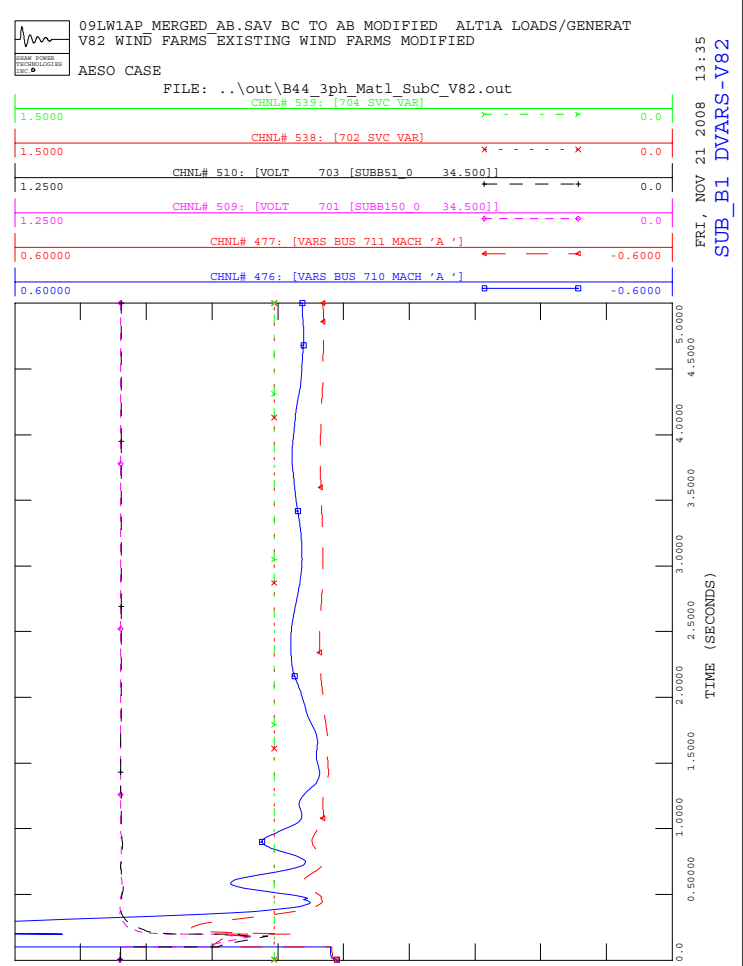
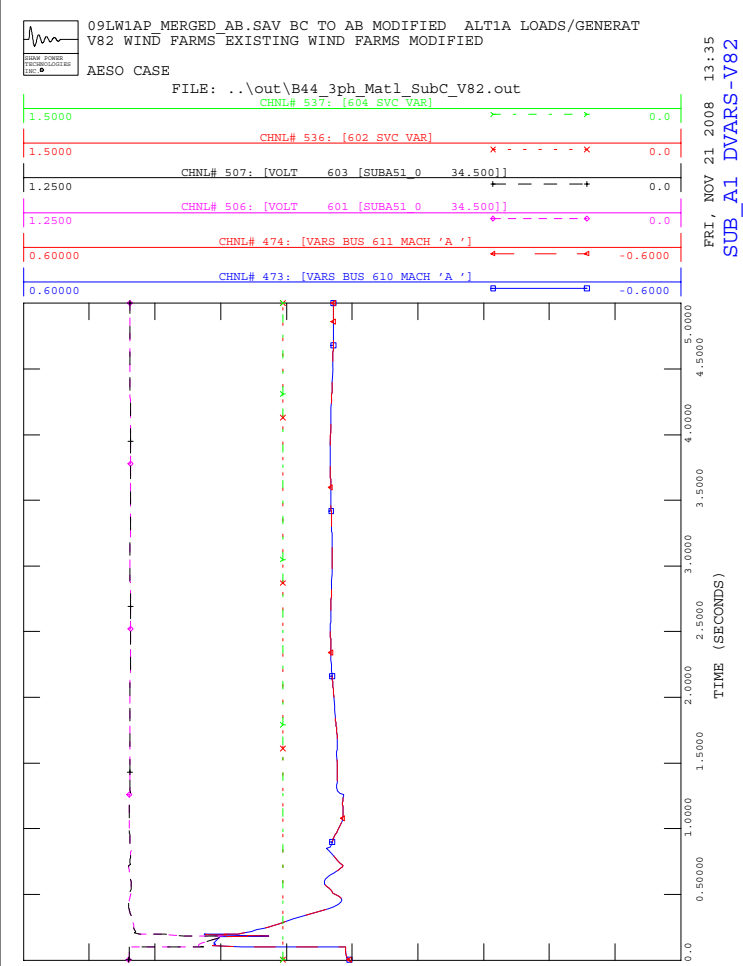
FRI, NOV 21 2008 13:35
 MEH2_CYP_WILD SPEED -V82

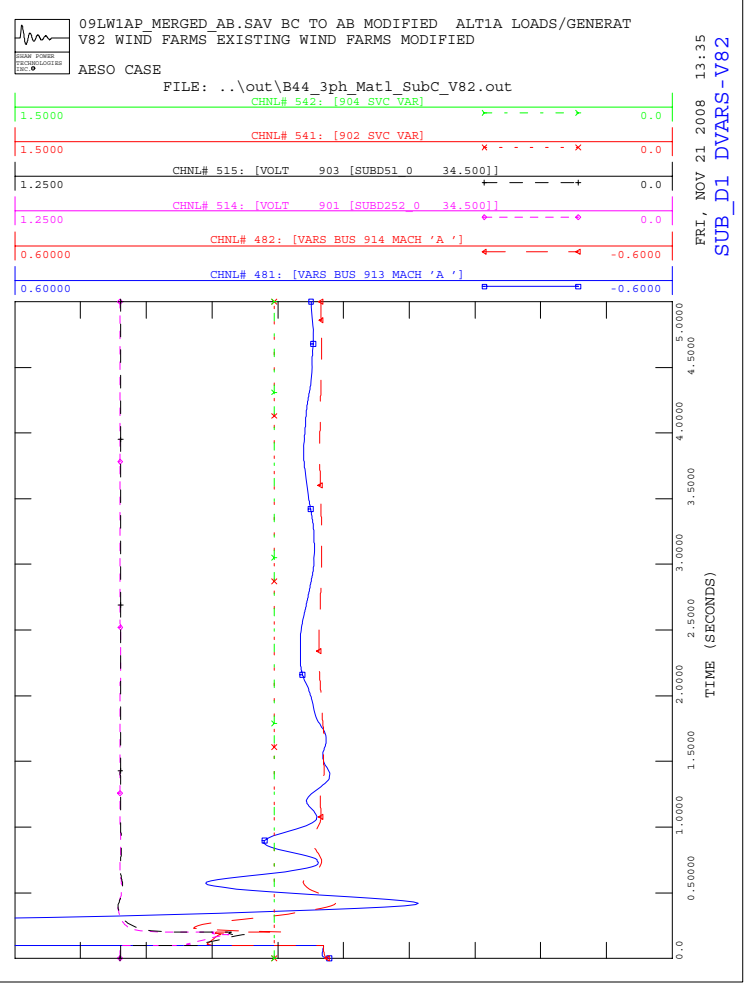
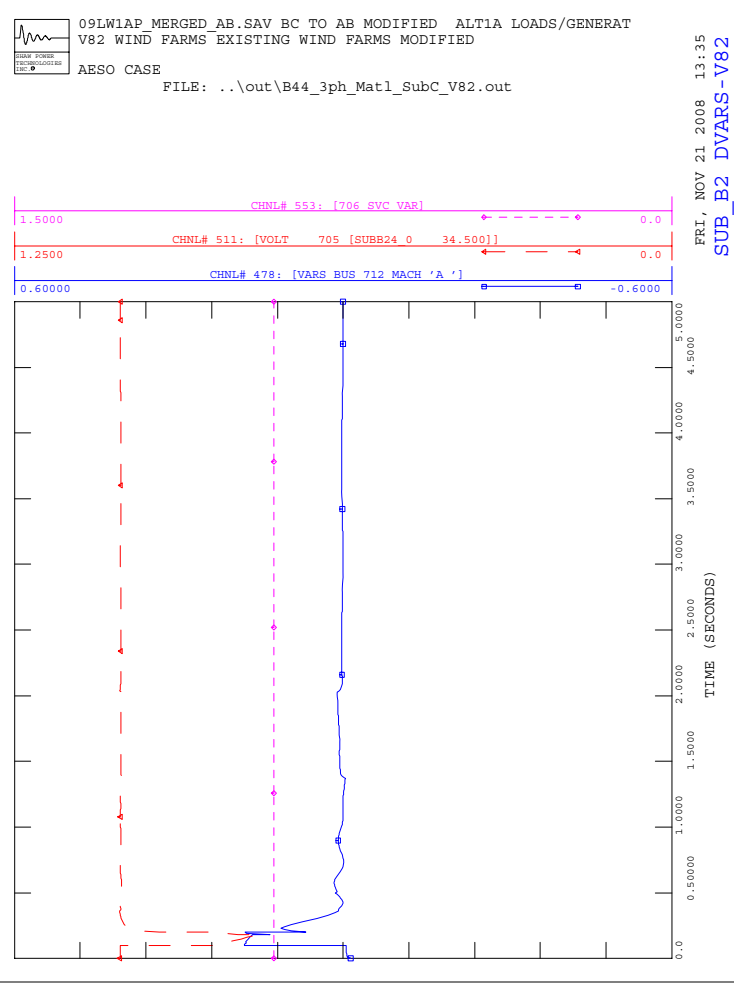
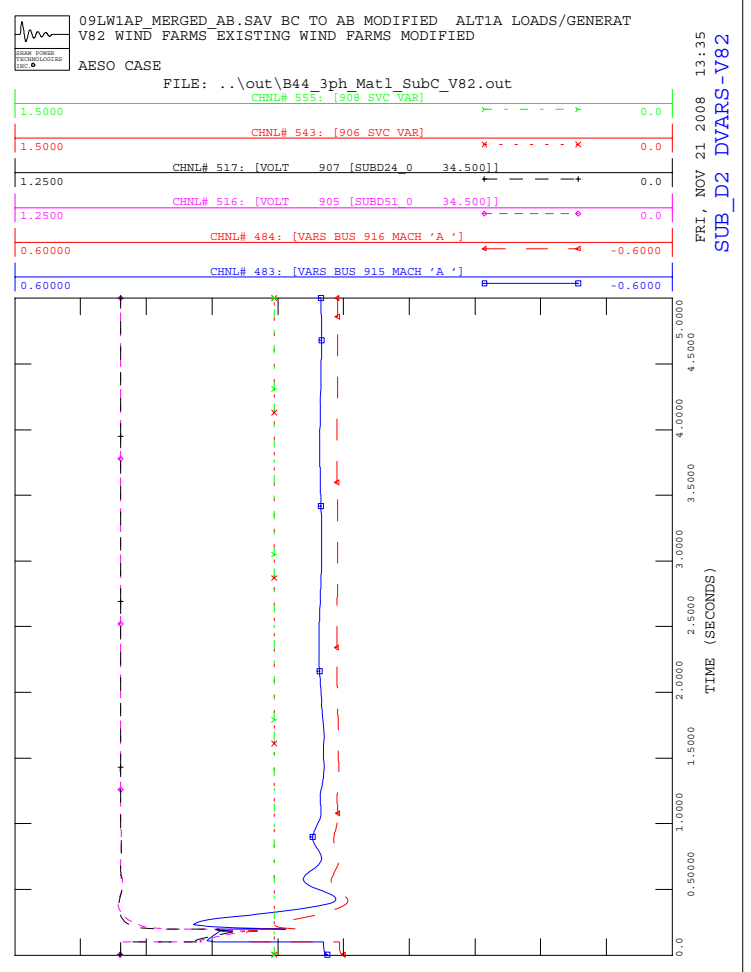
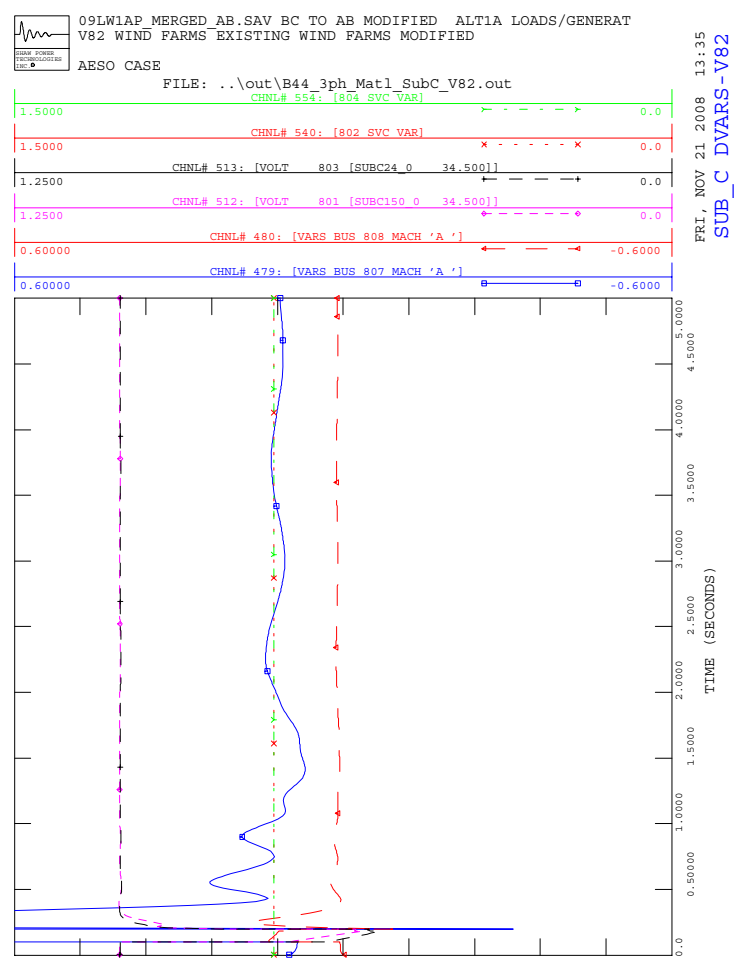


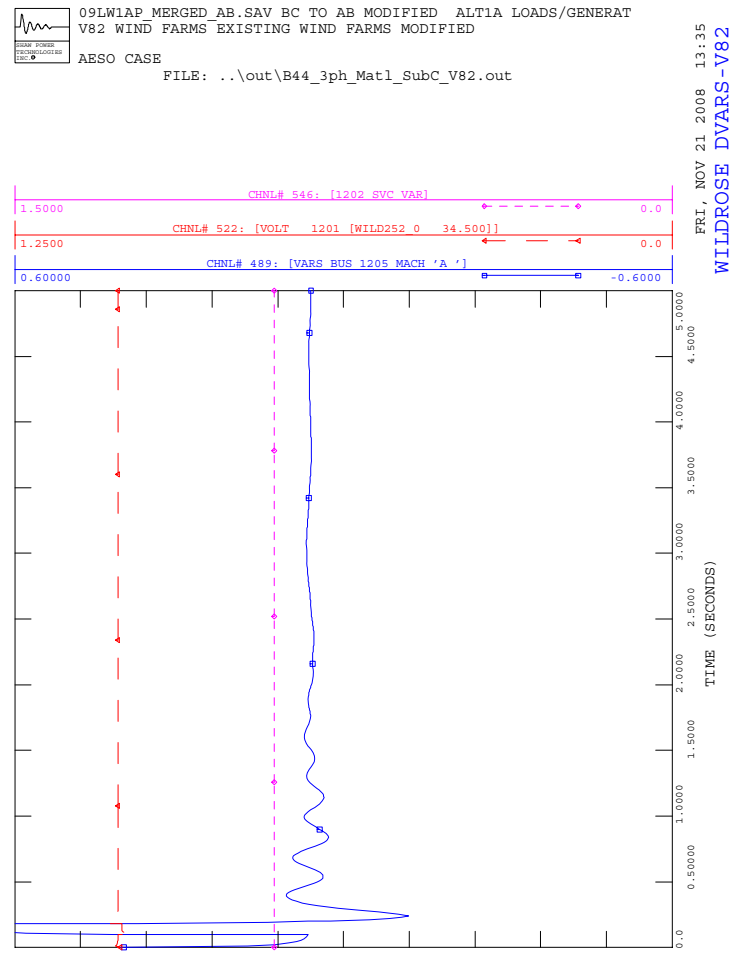
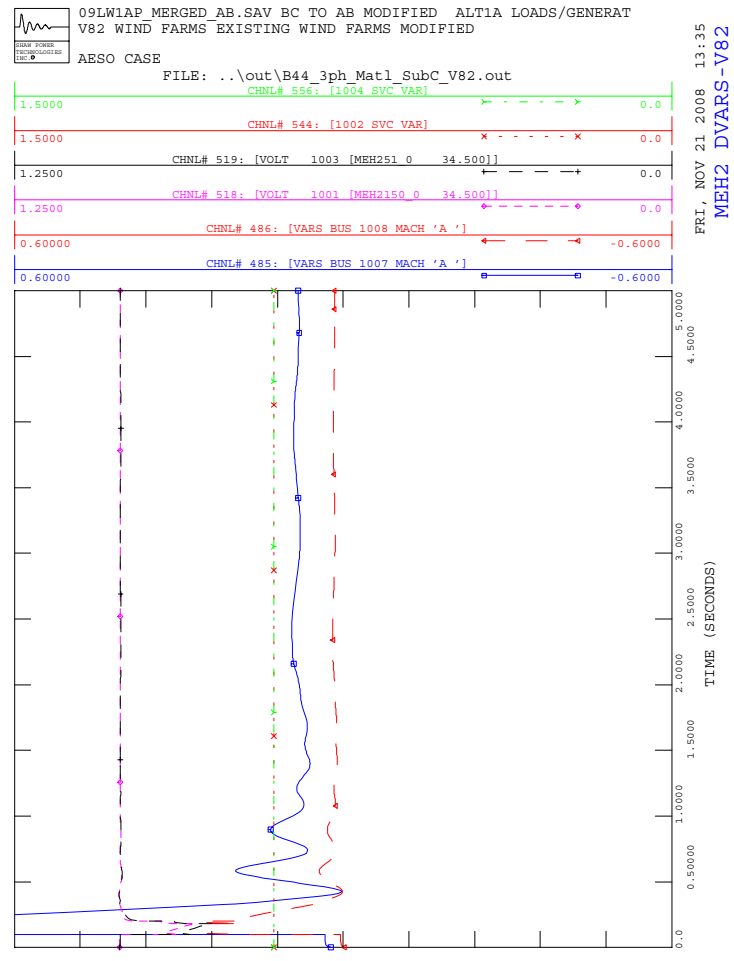
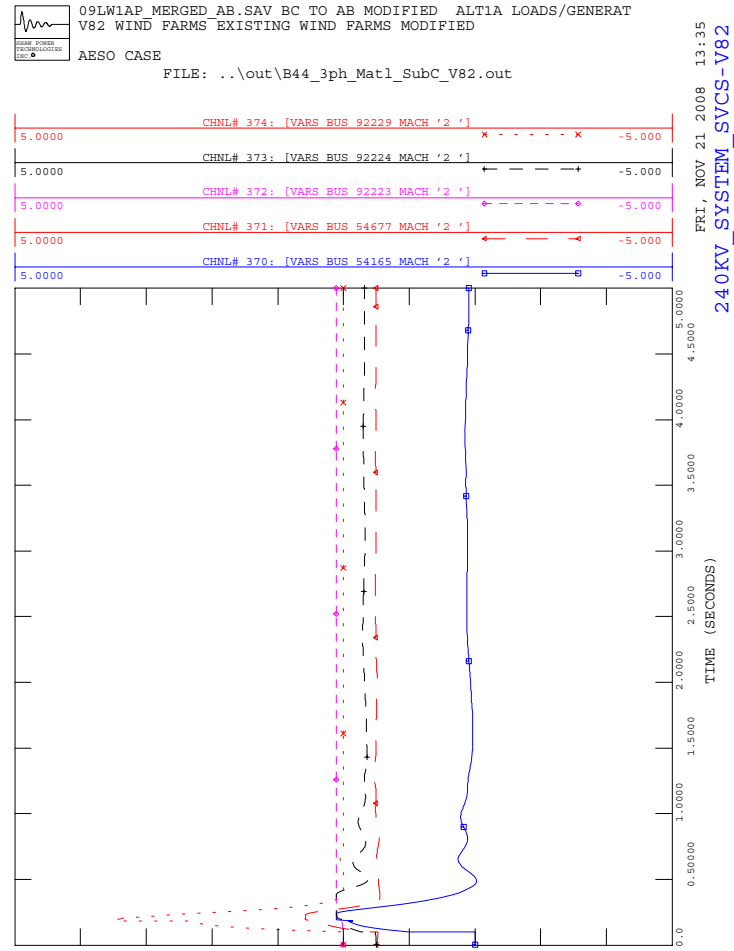
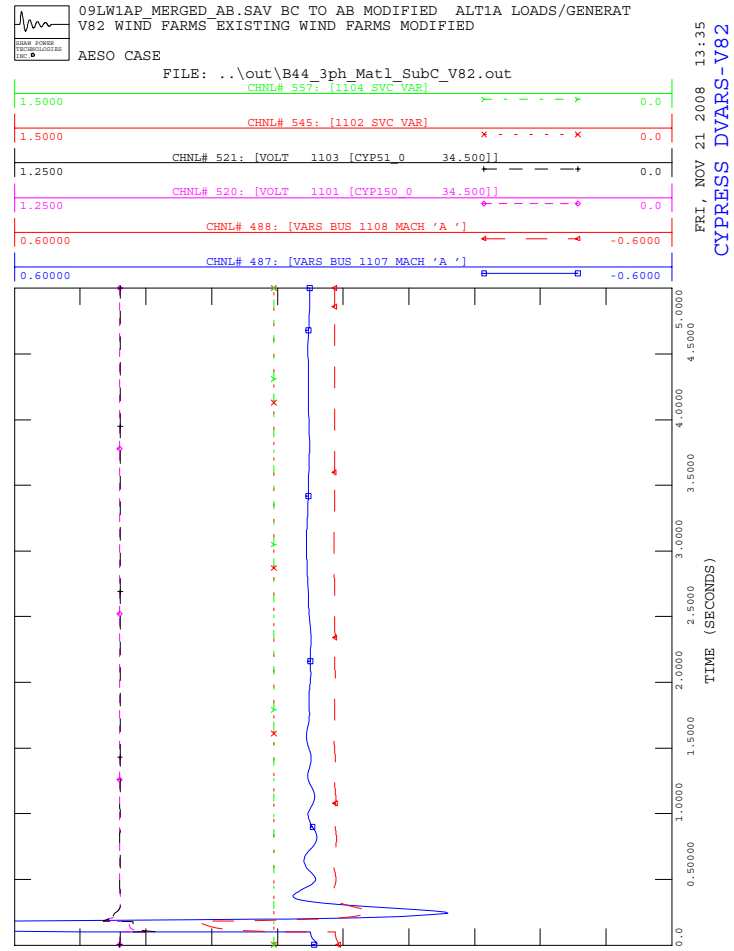












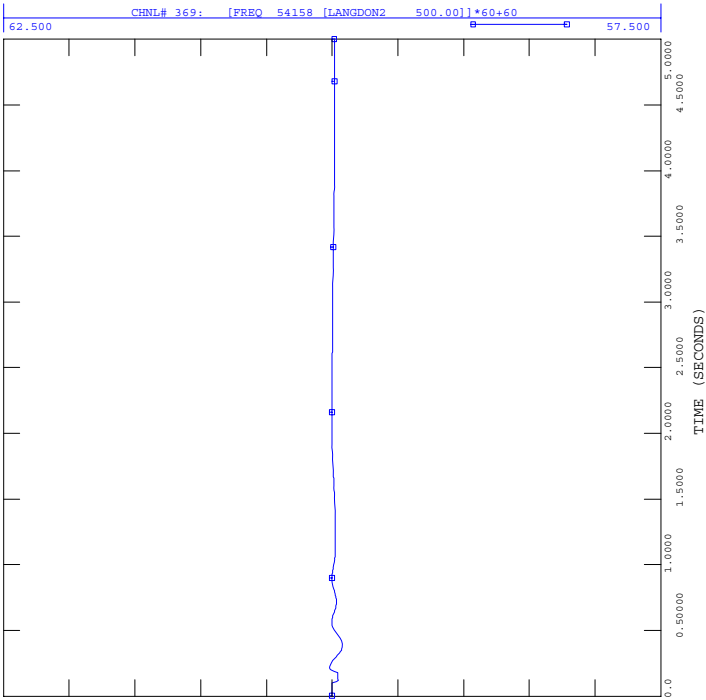


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B44_3ph_Mat1_SubC_V82.out

FRI, NOV 21 2008 13:35
LANGDON_FRQ-V82

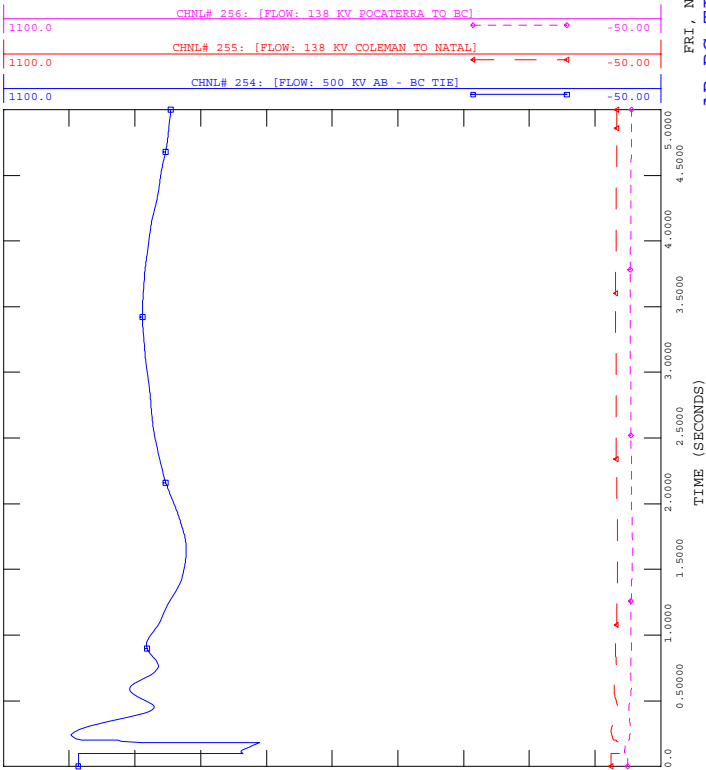


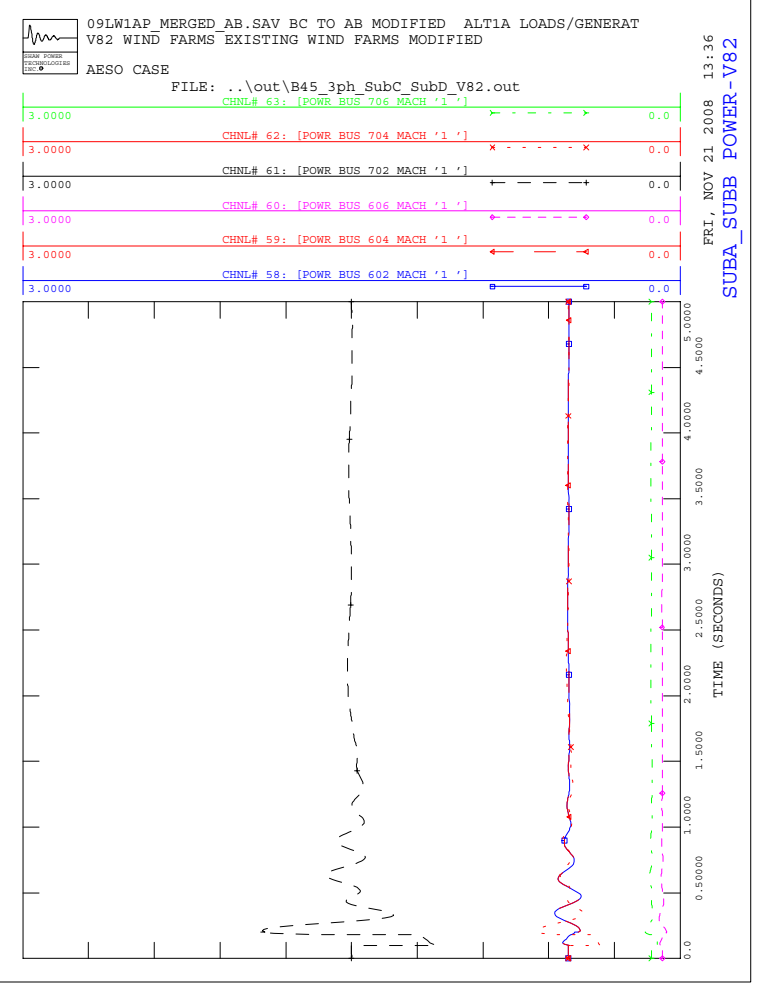
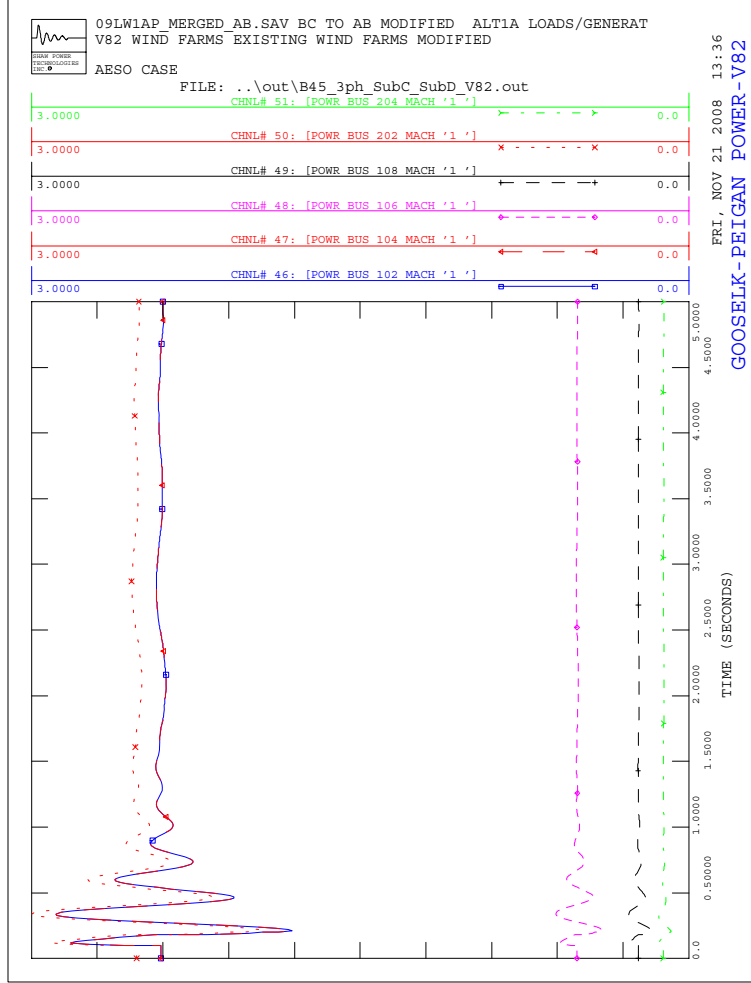
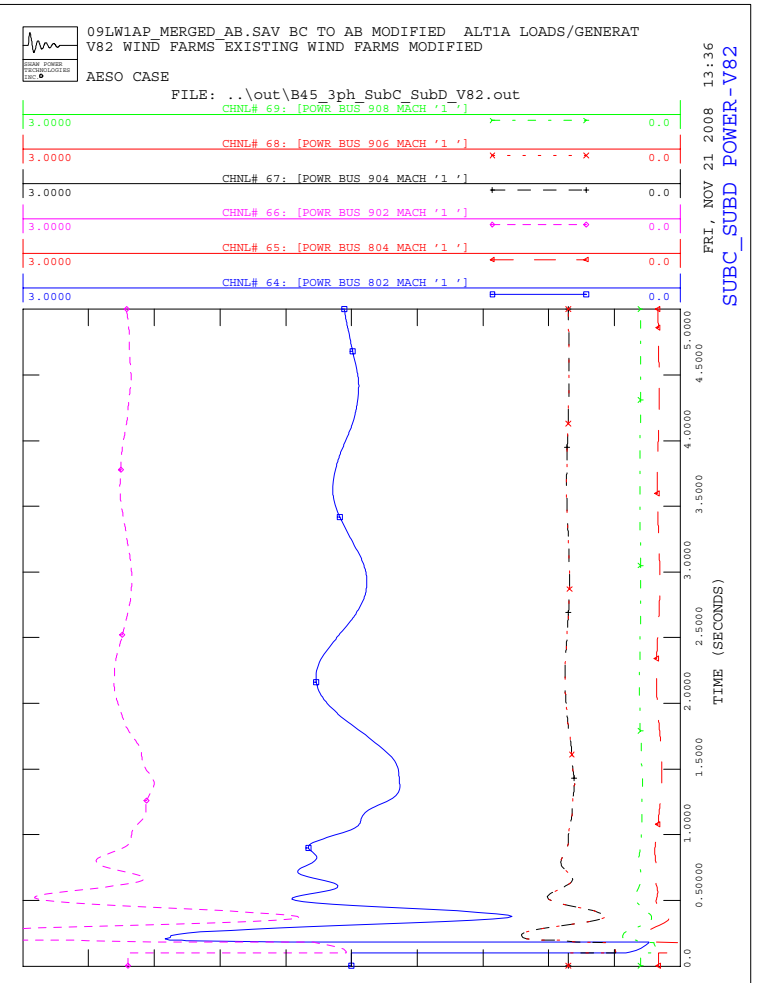
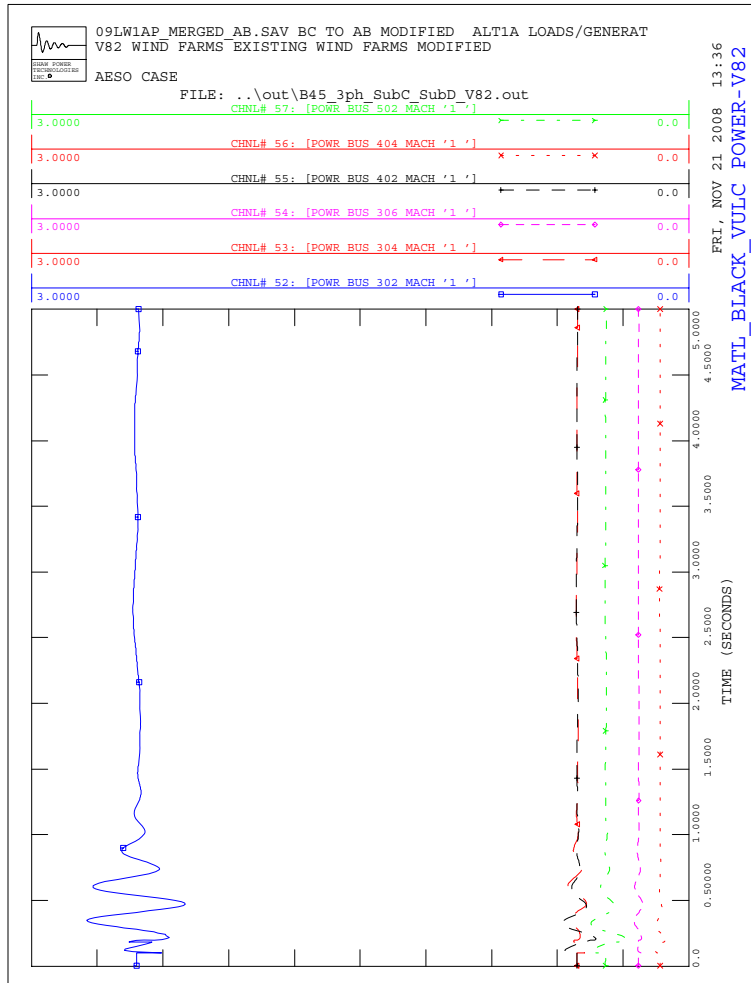
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

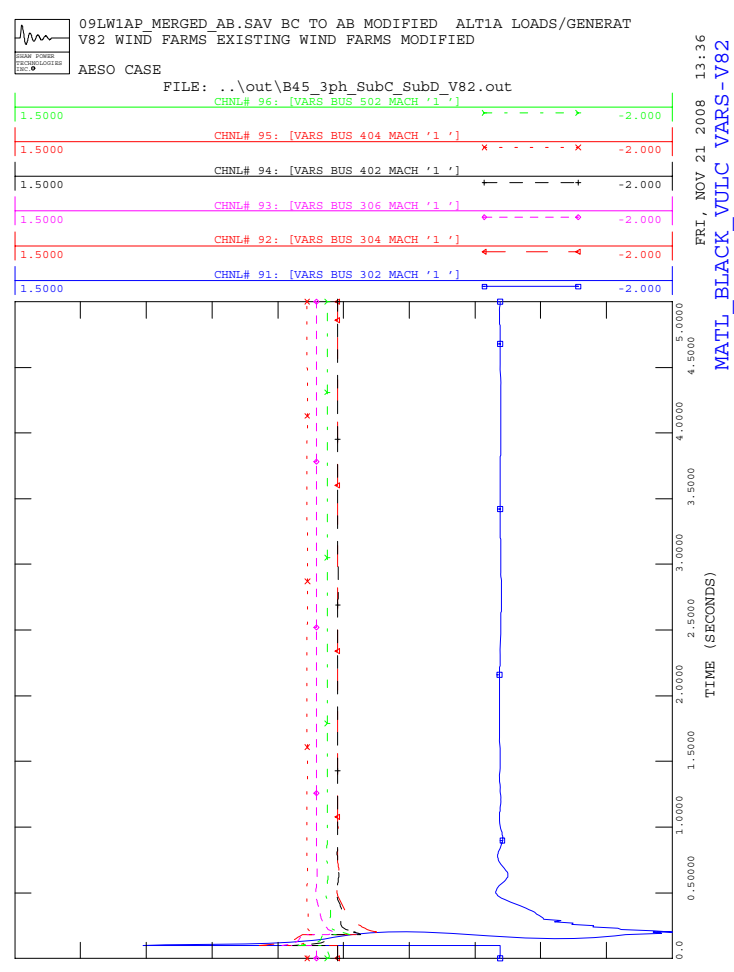
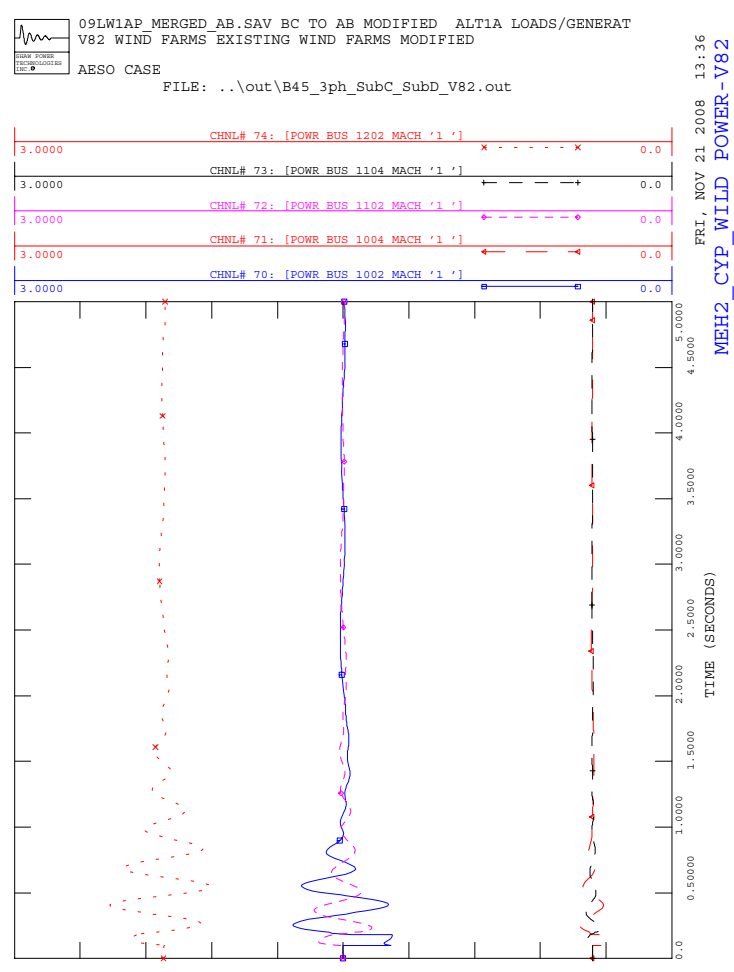
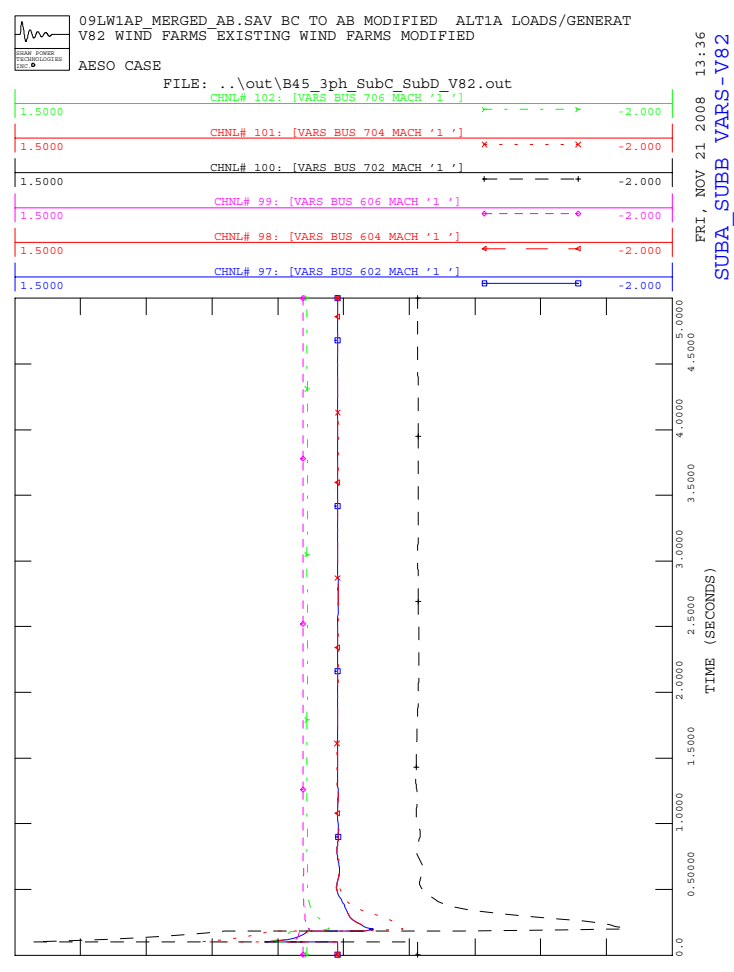
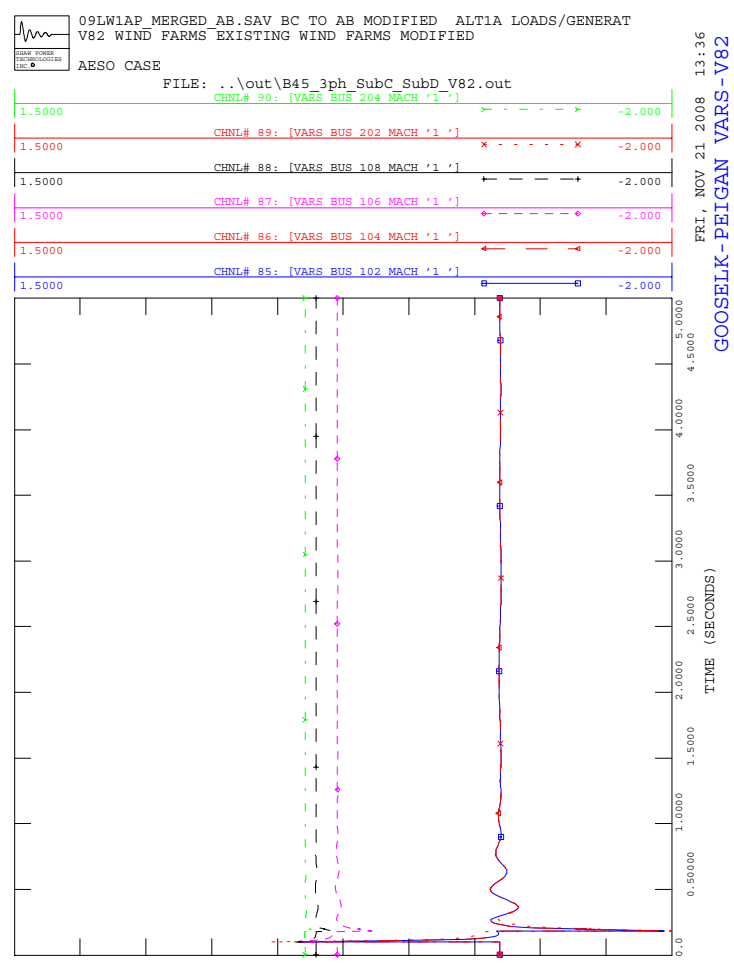
ABSO CASE

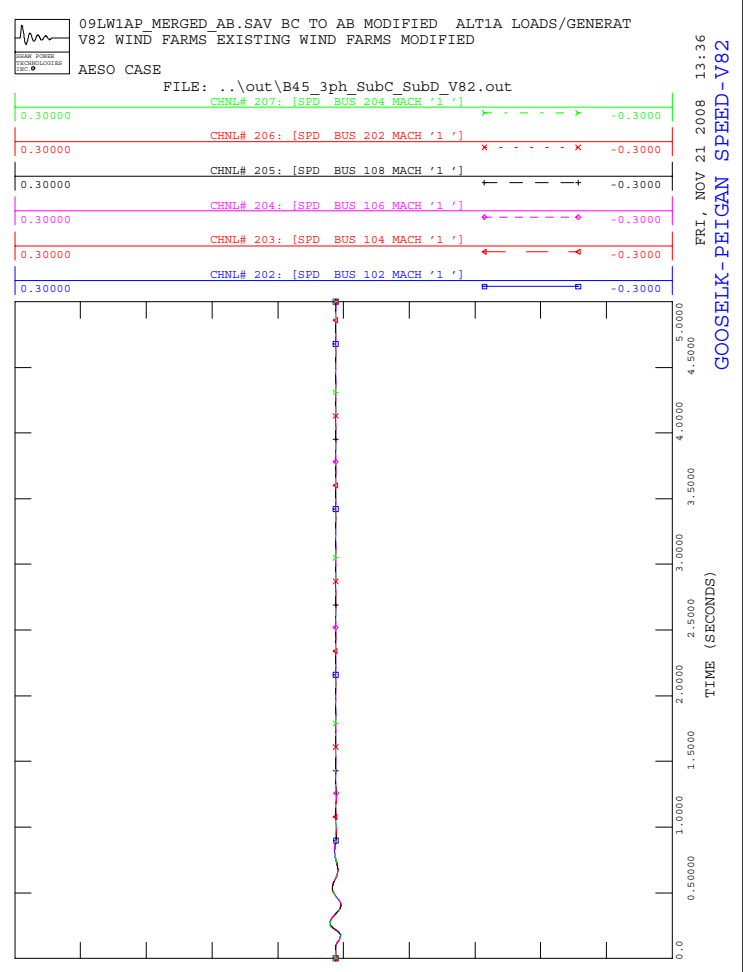
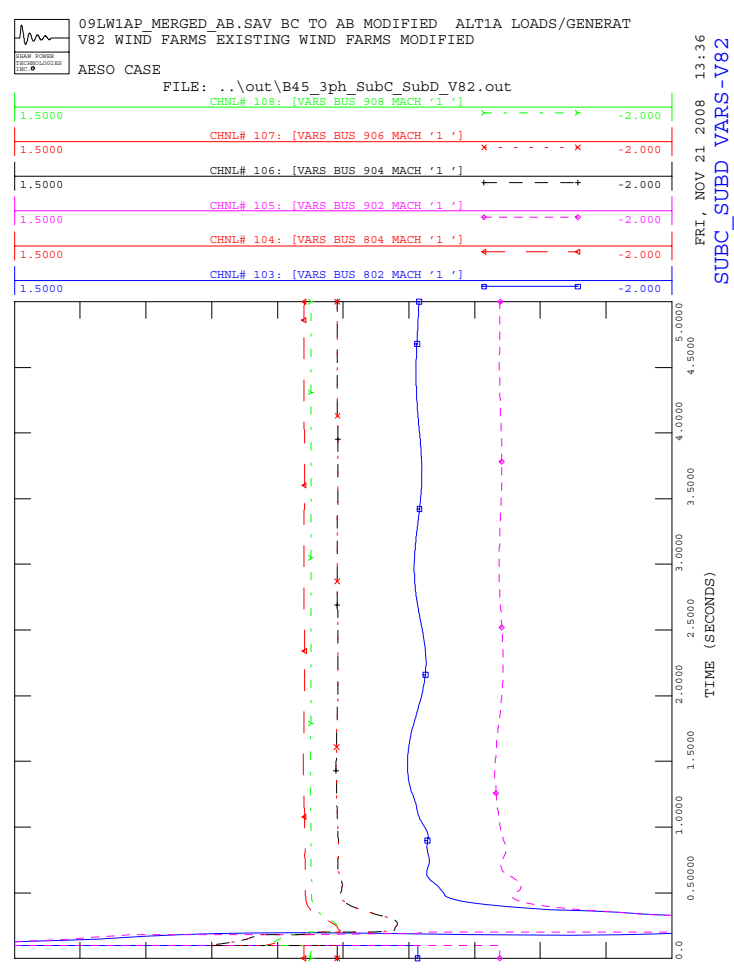
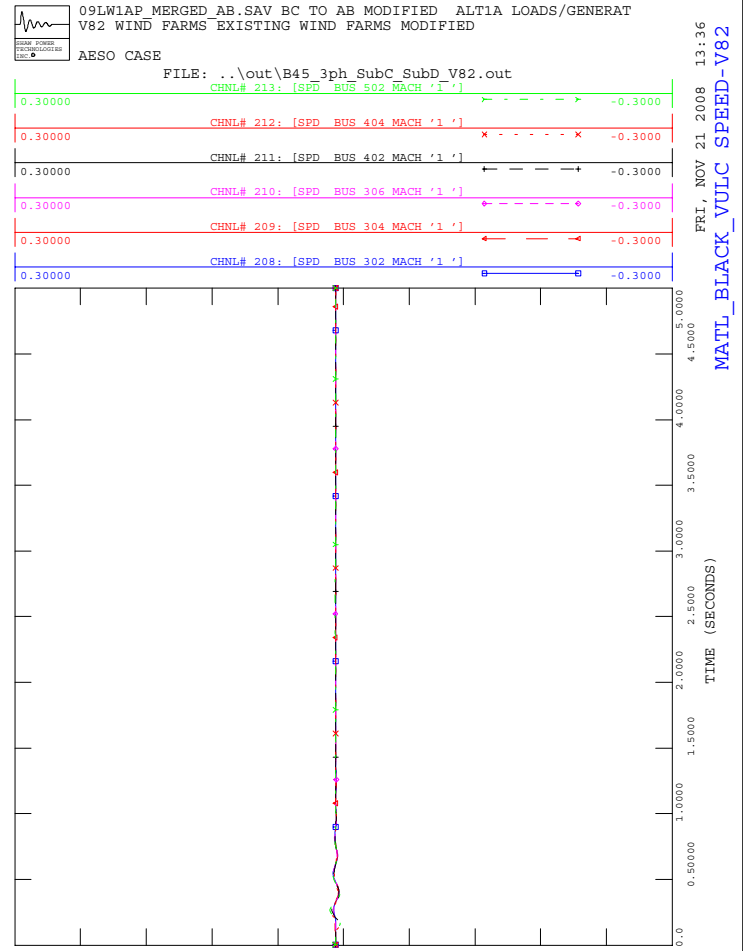
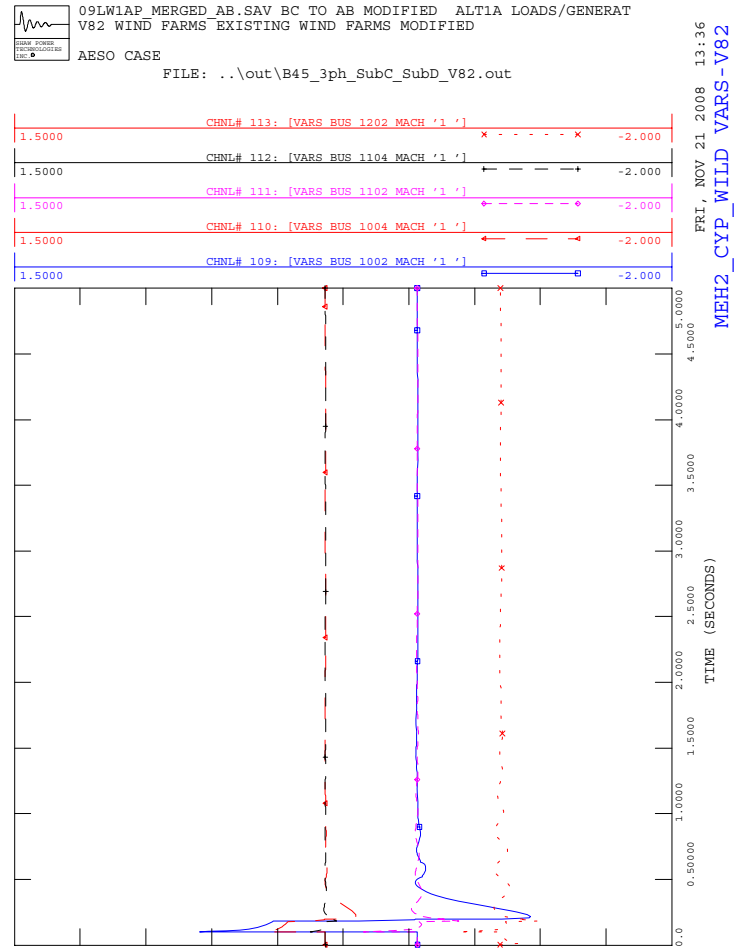
FILE: ..\out\B44_3ph_Mat1_SubC_V82.out

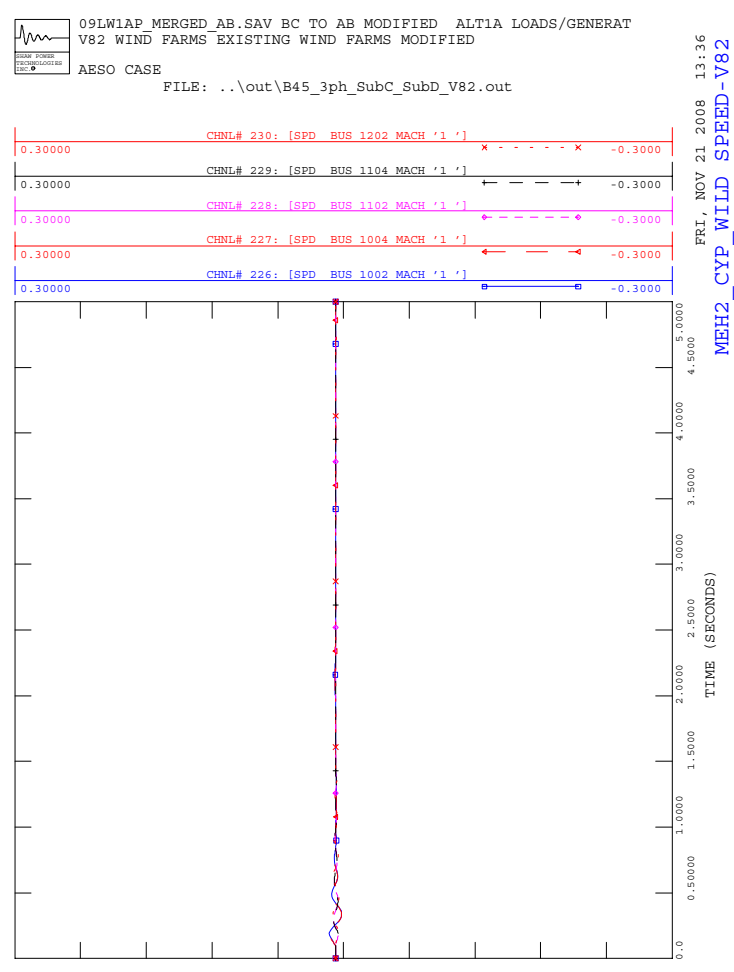
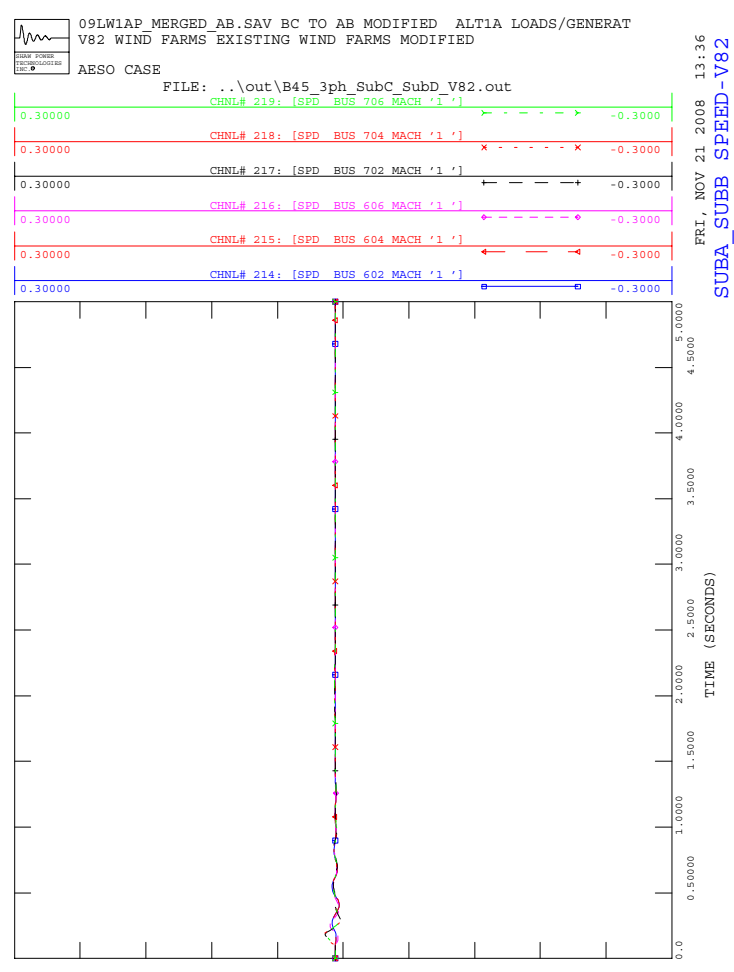
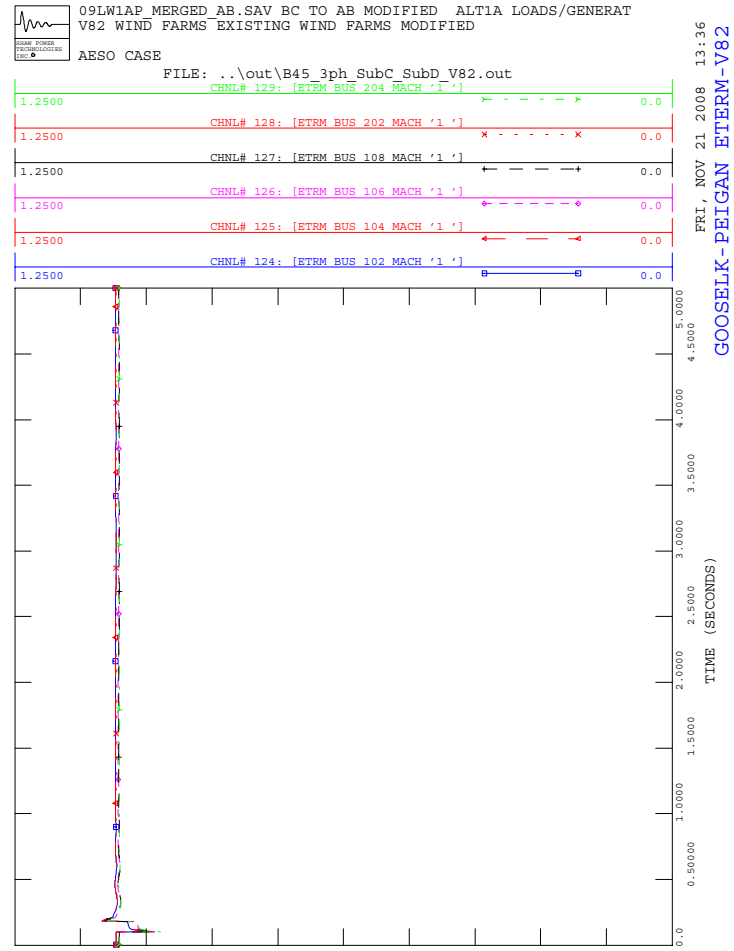
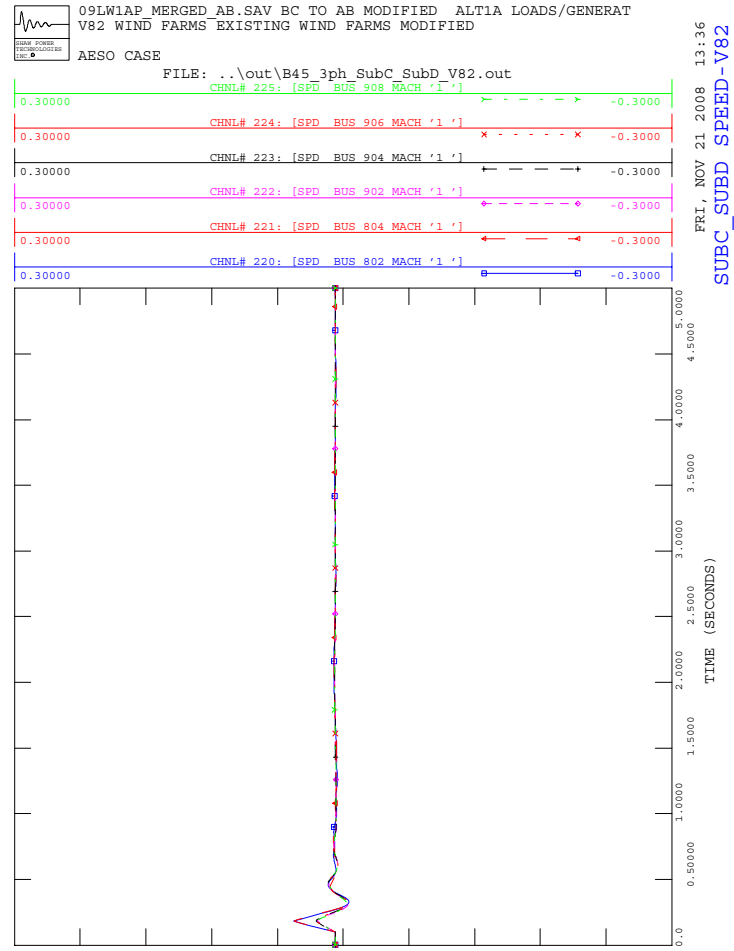
FRI, NOV 21 2008 13:35
AB_BC_TIE_FLOWS-V82

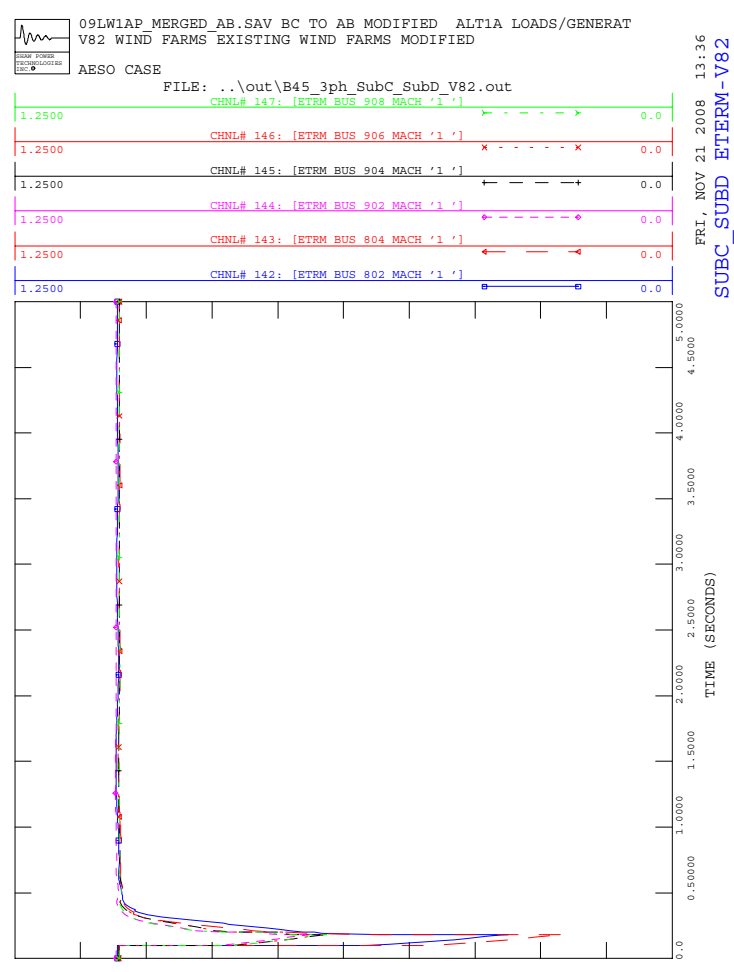
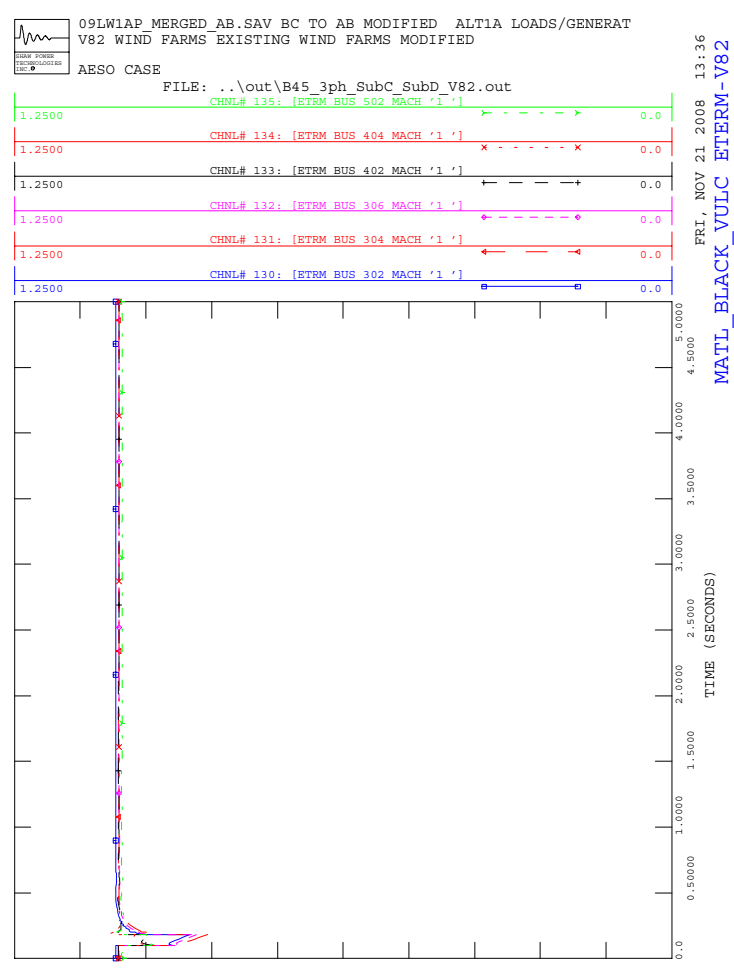
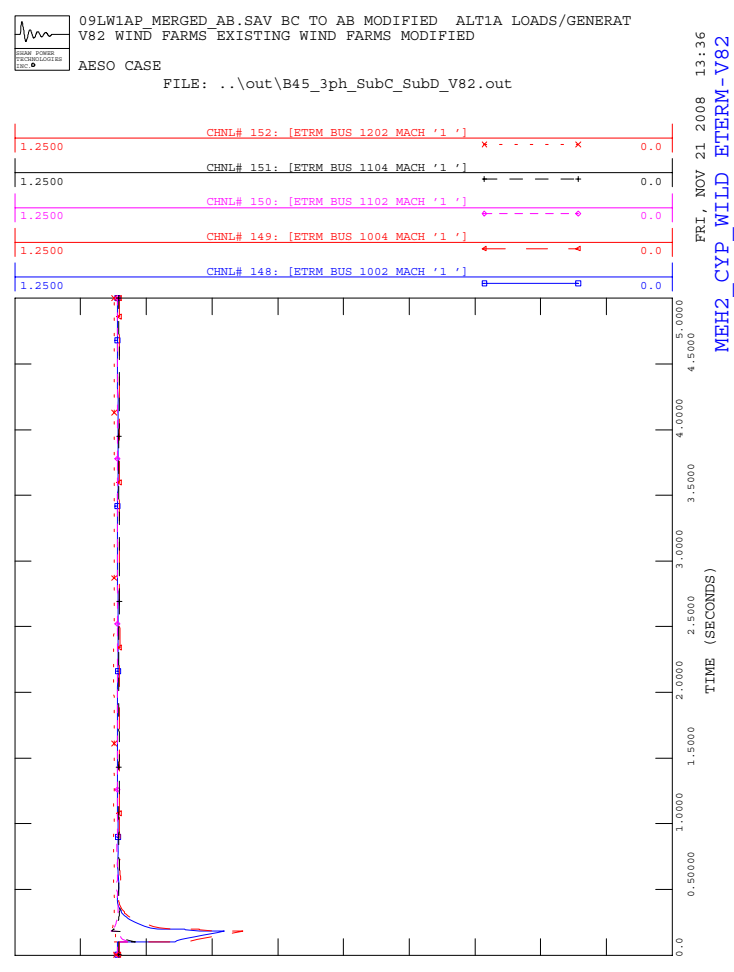
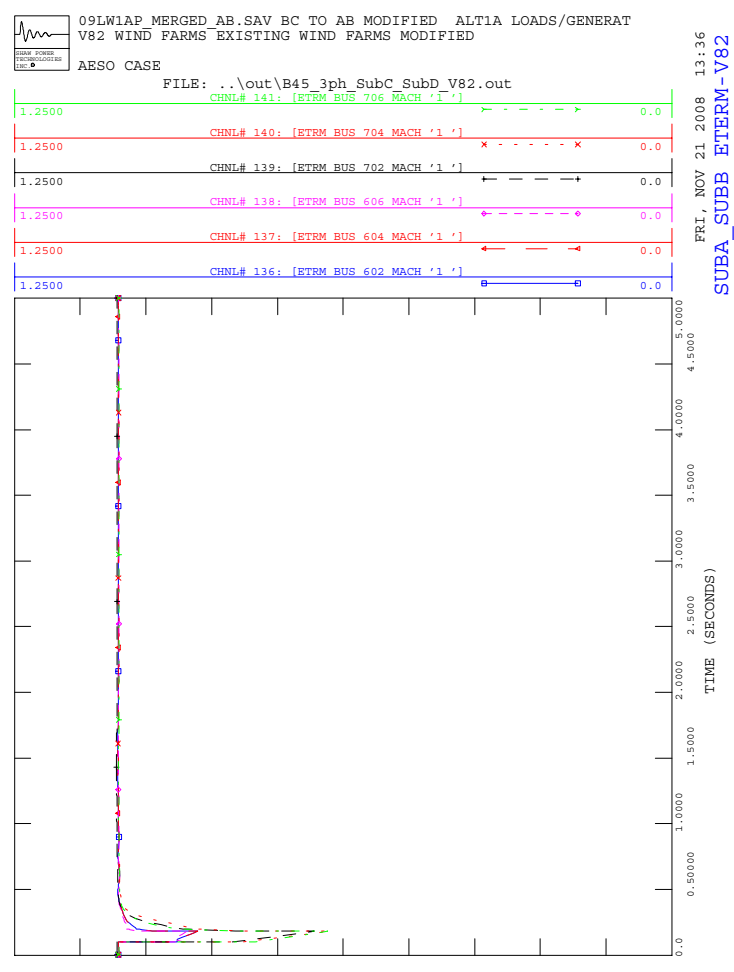


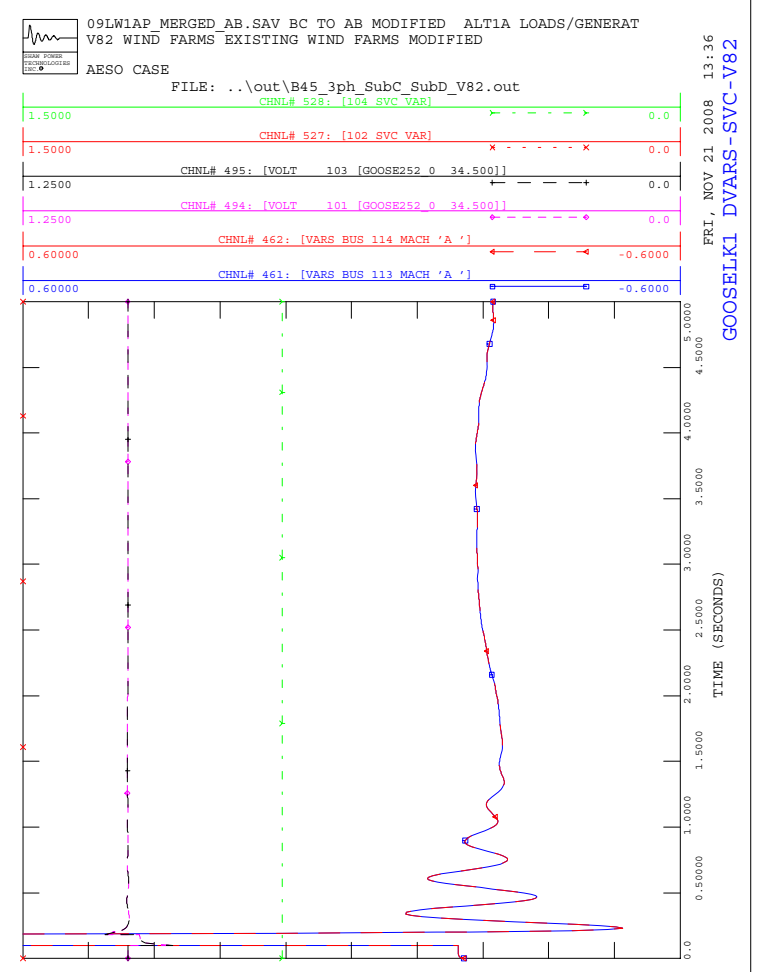
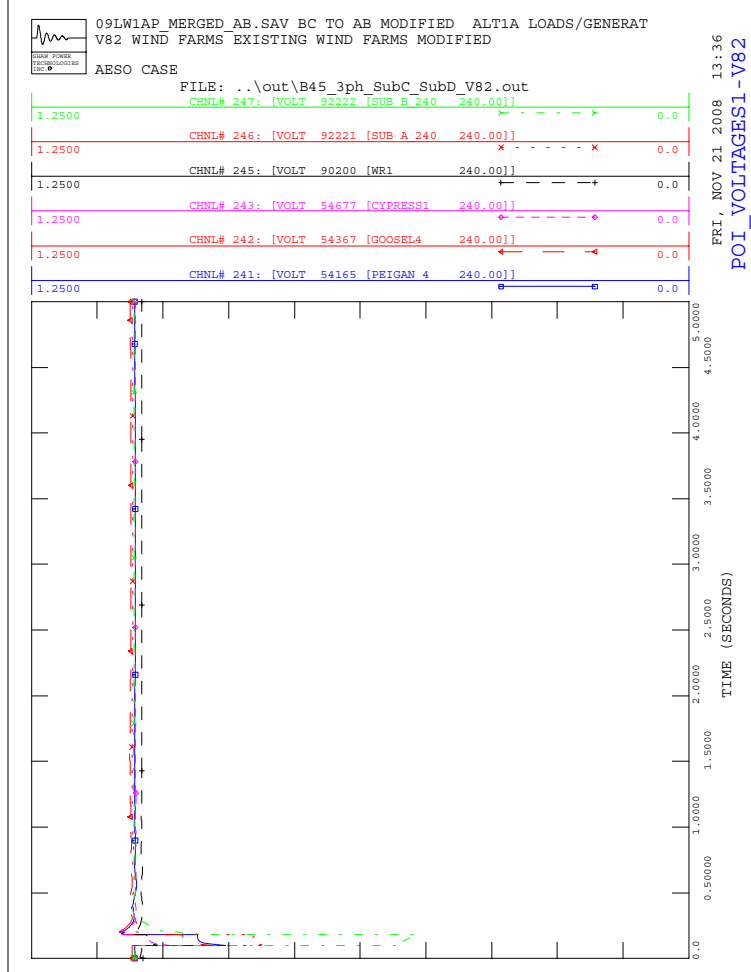
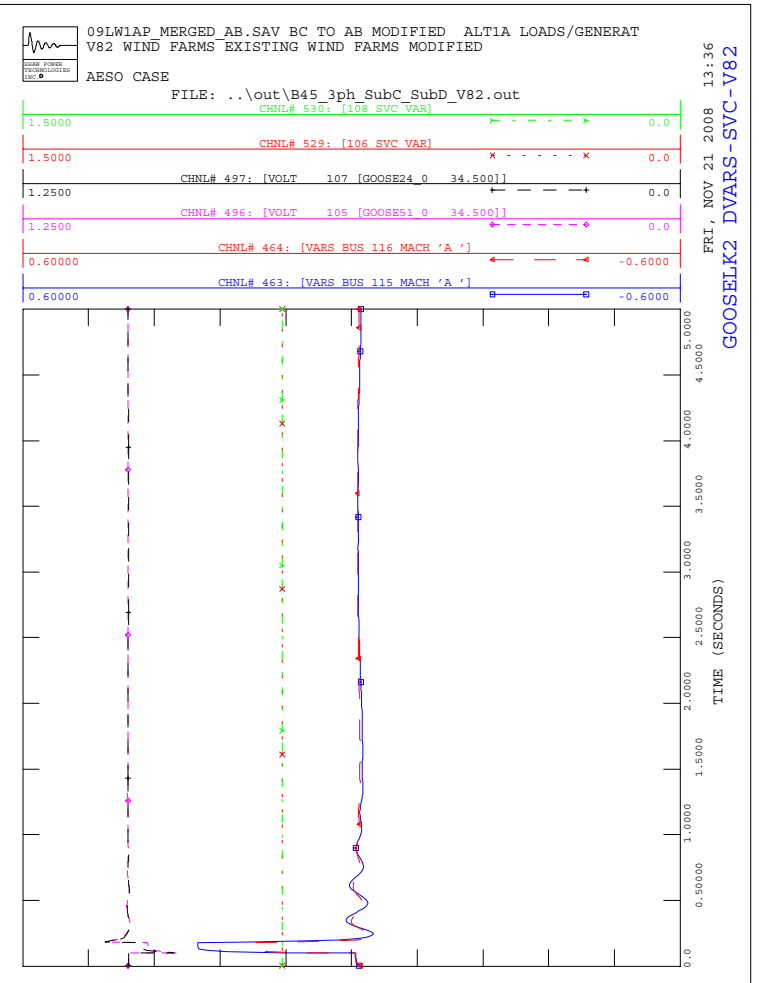
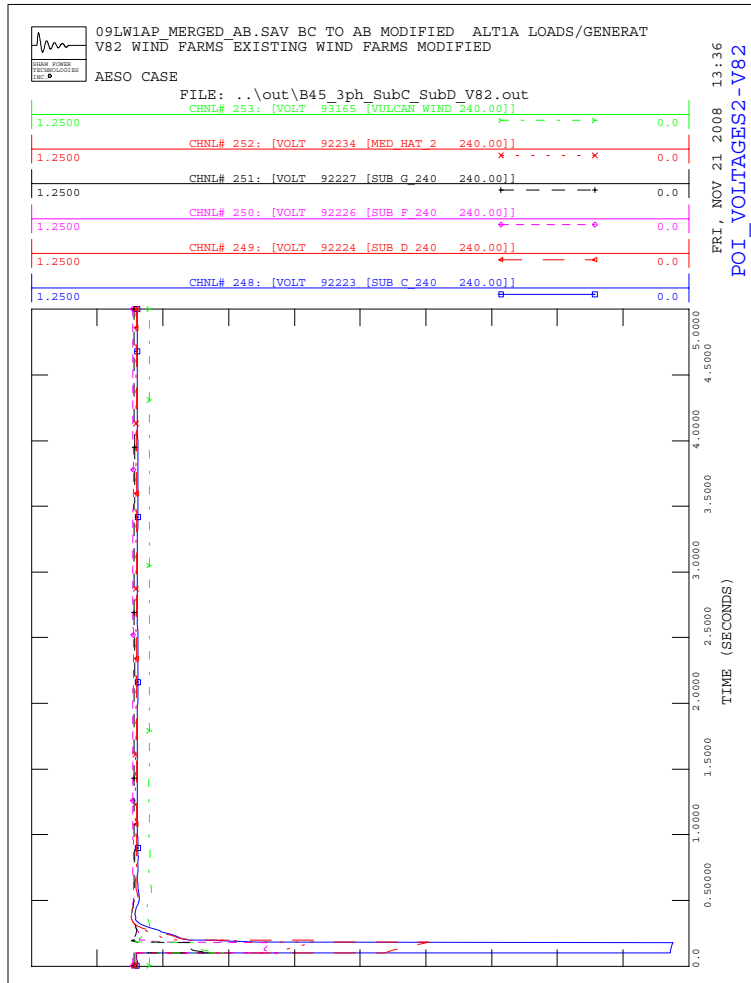


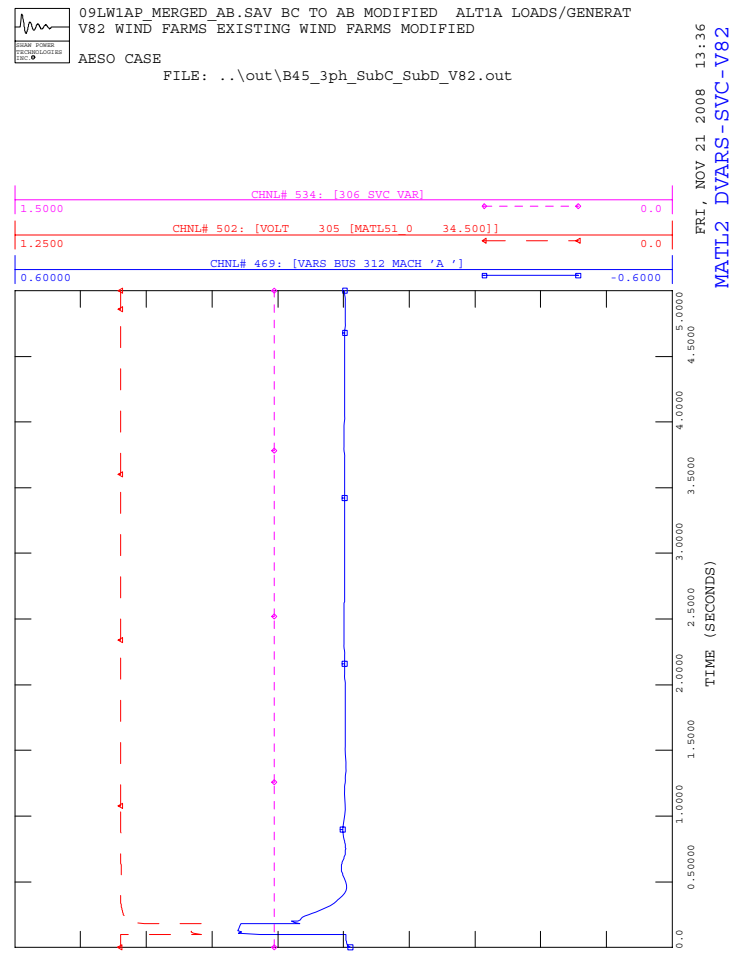
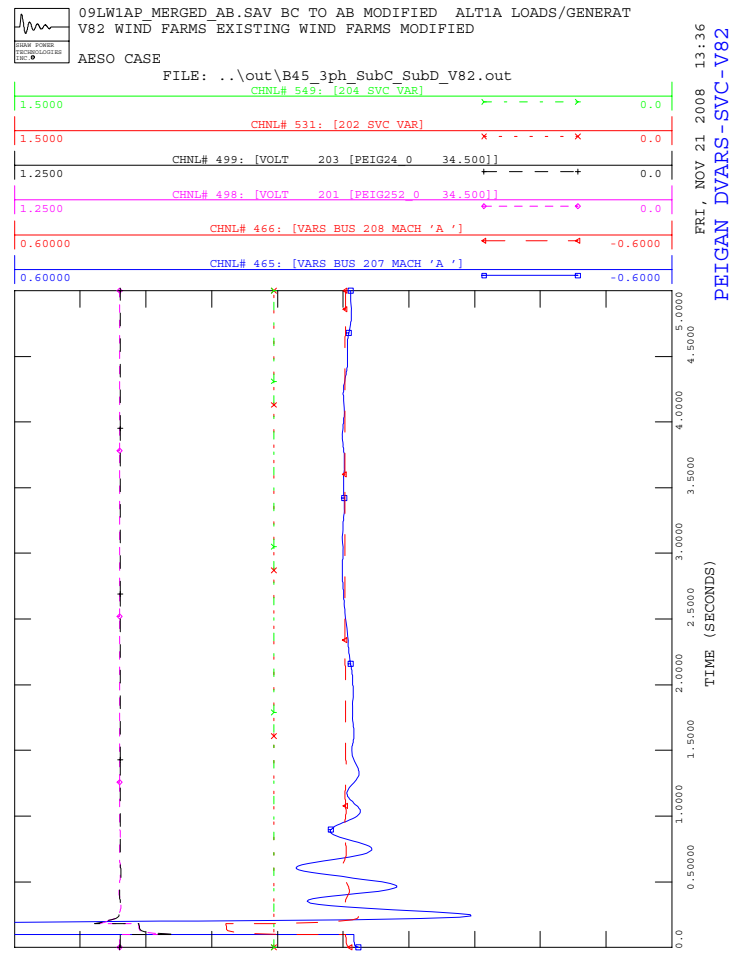
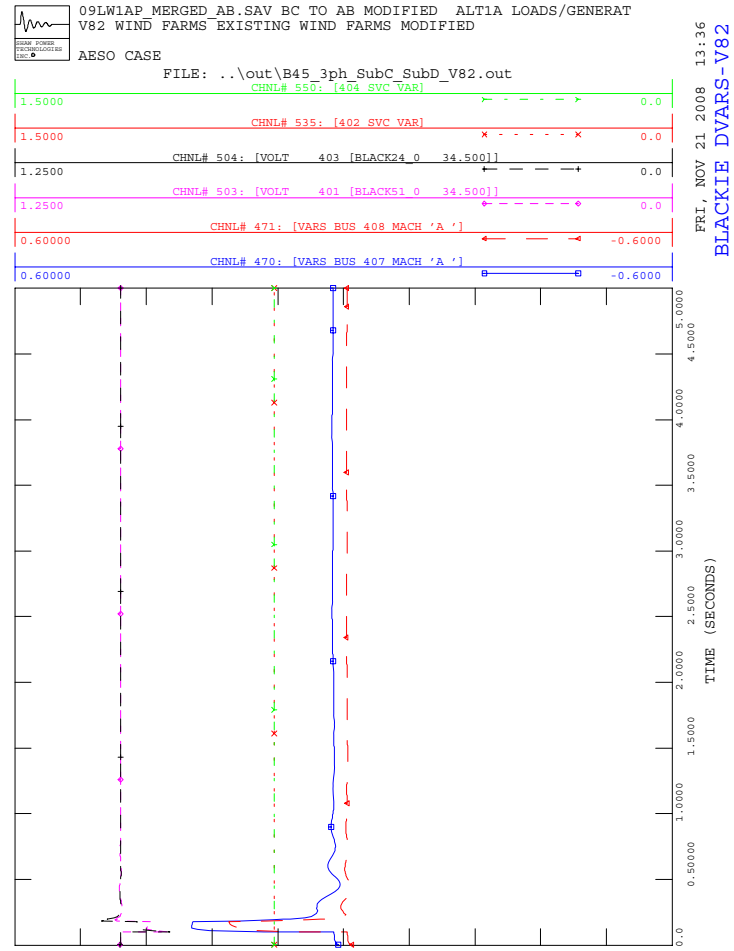
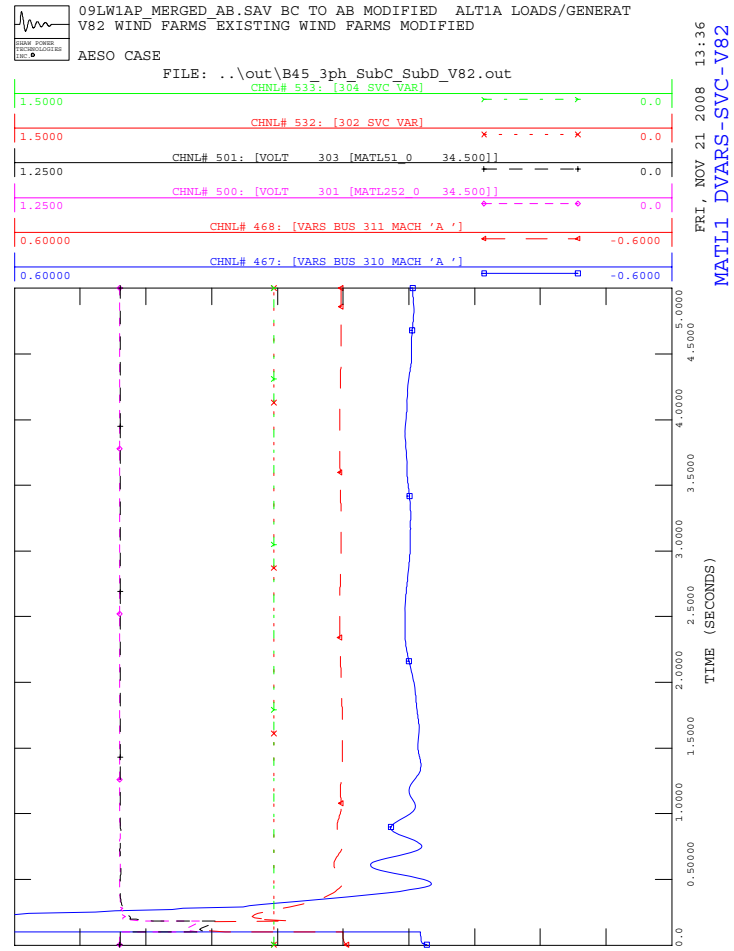


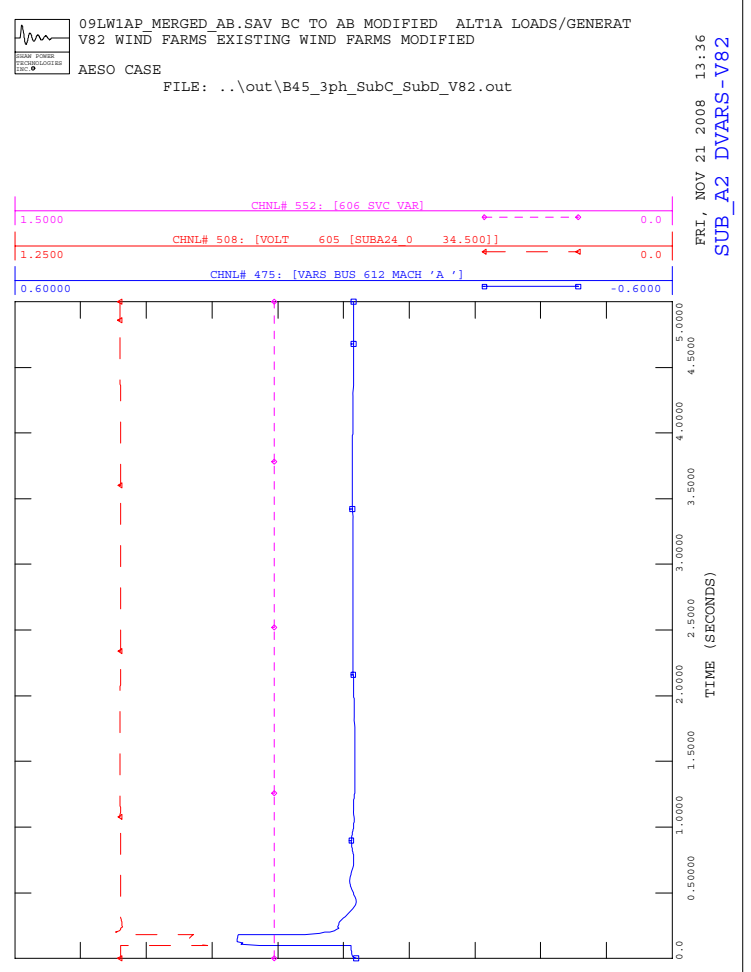
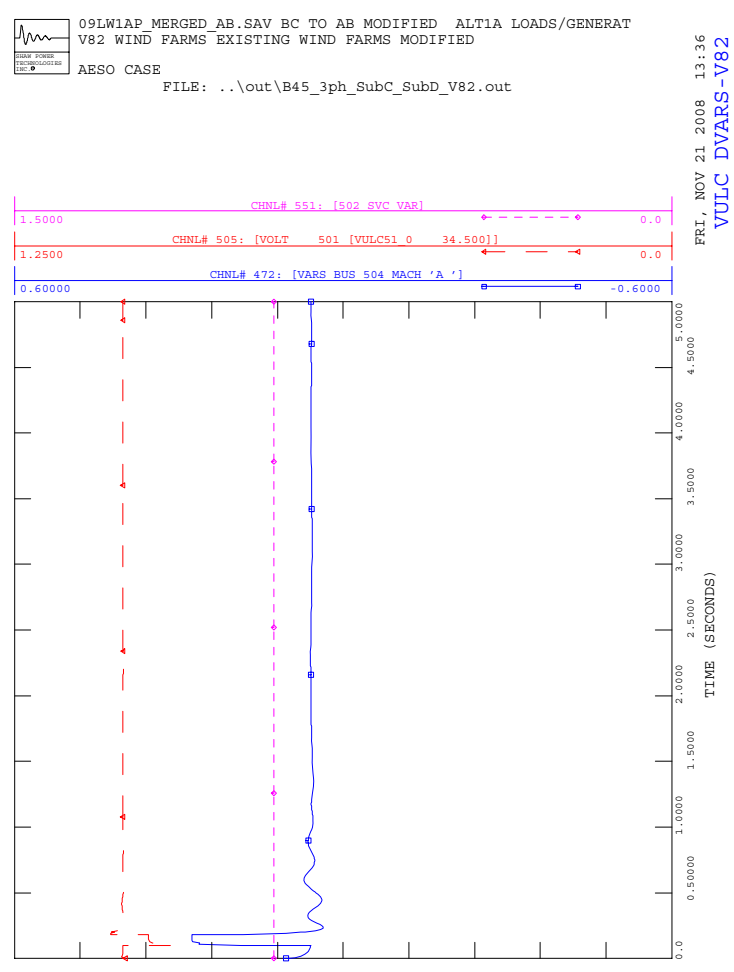
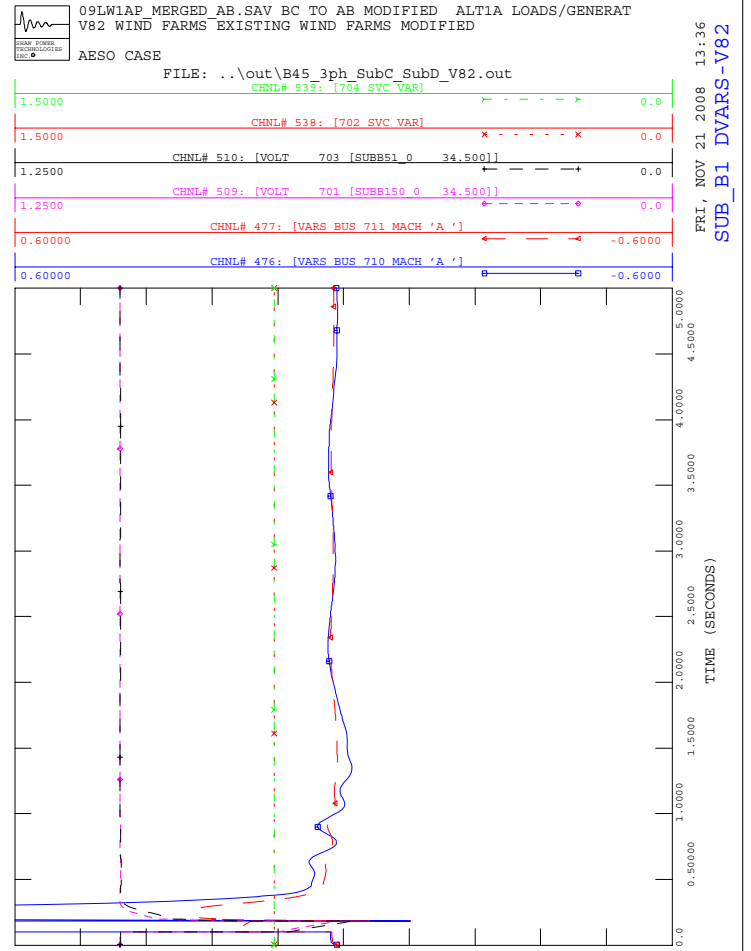
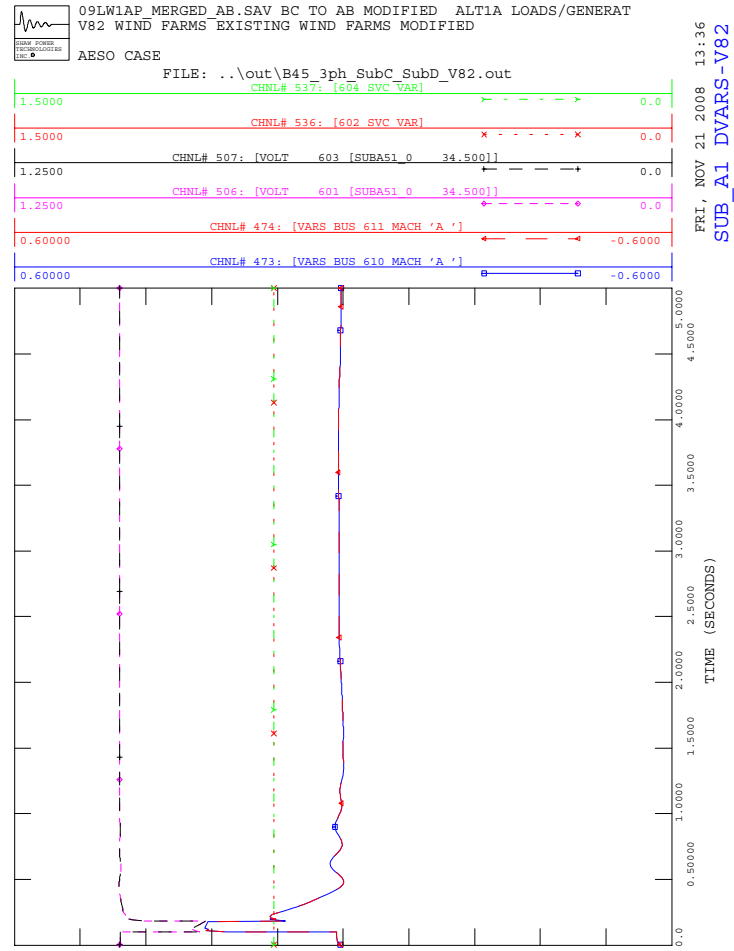


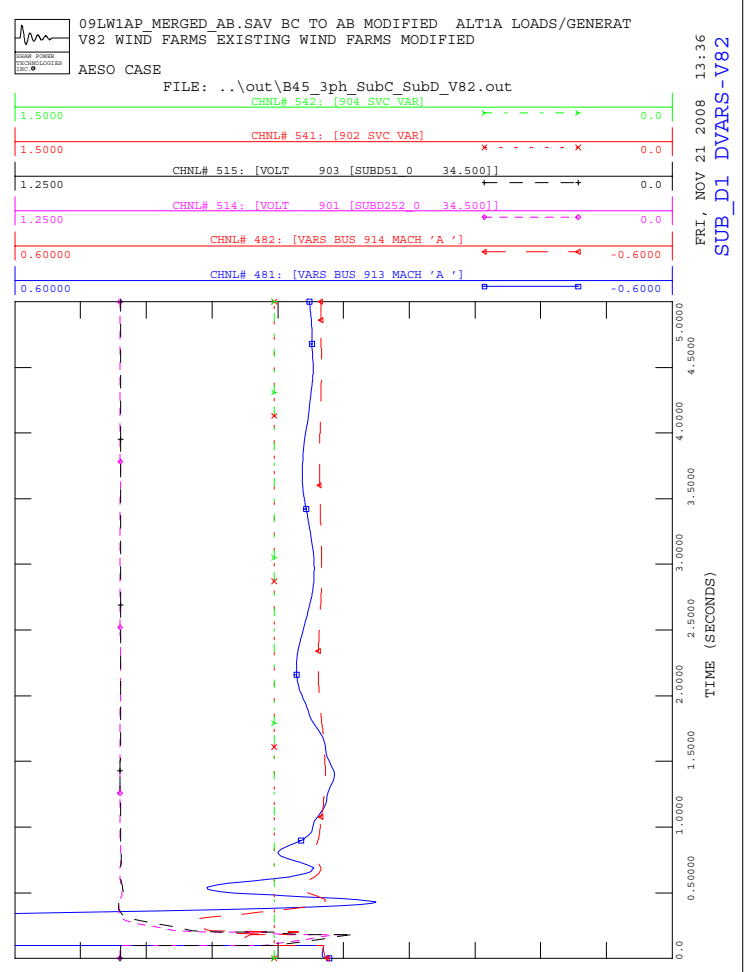
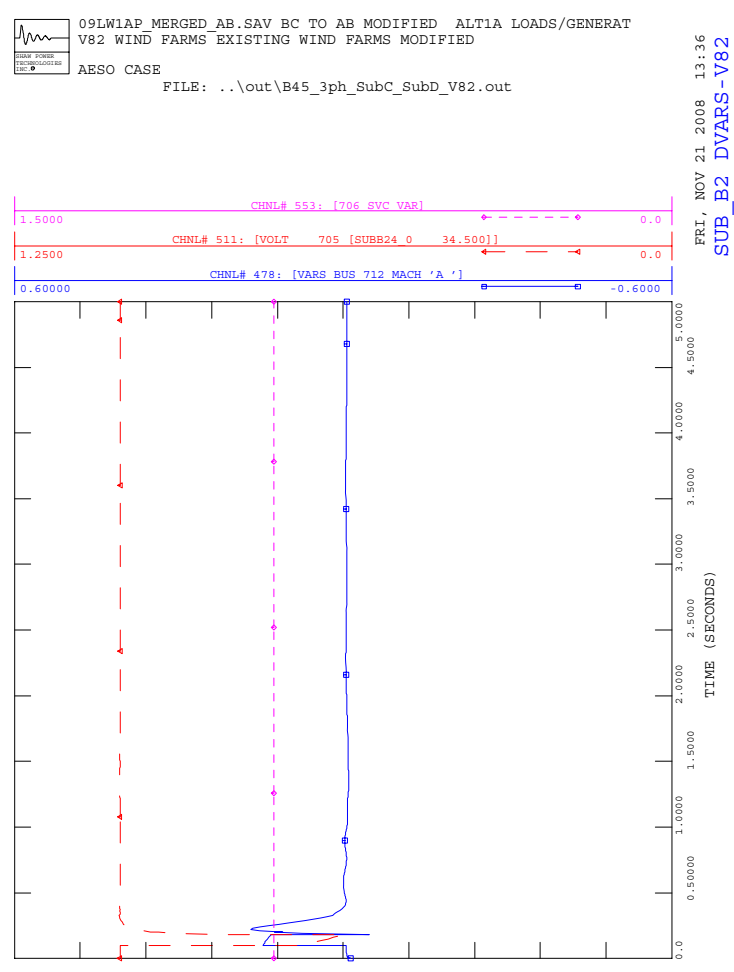
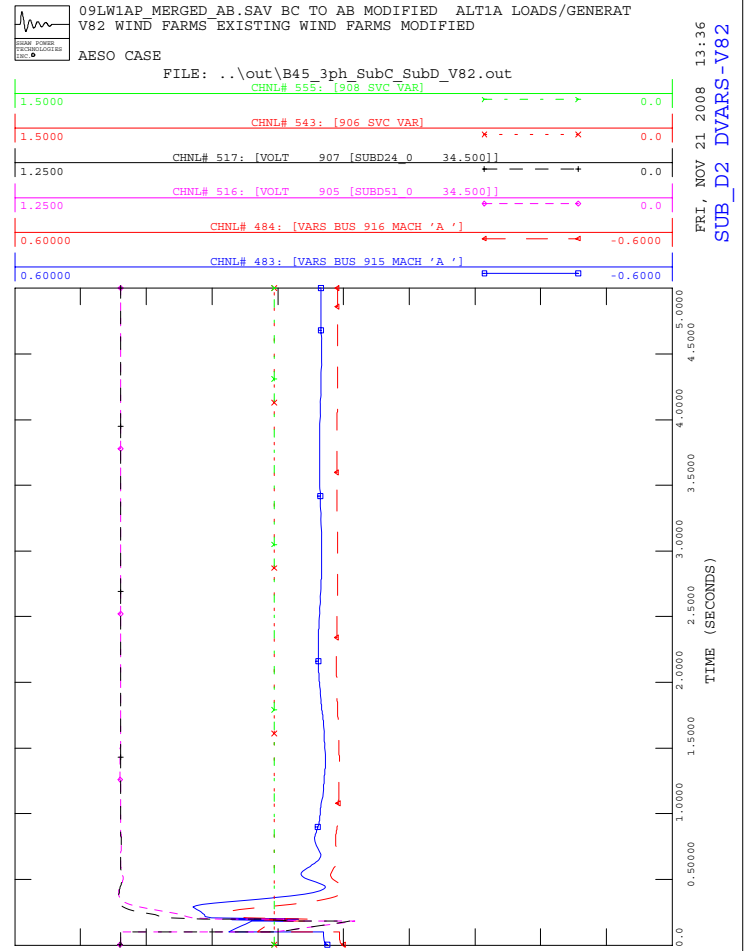
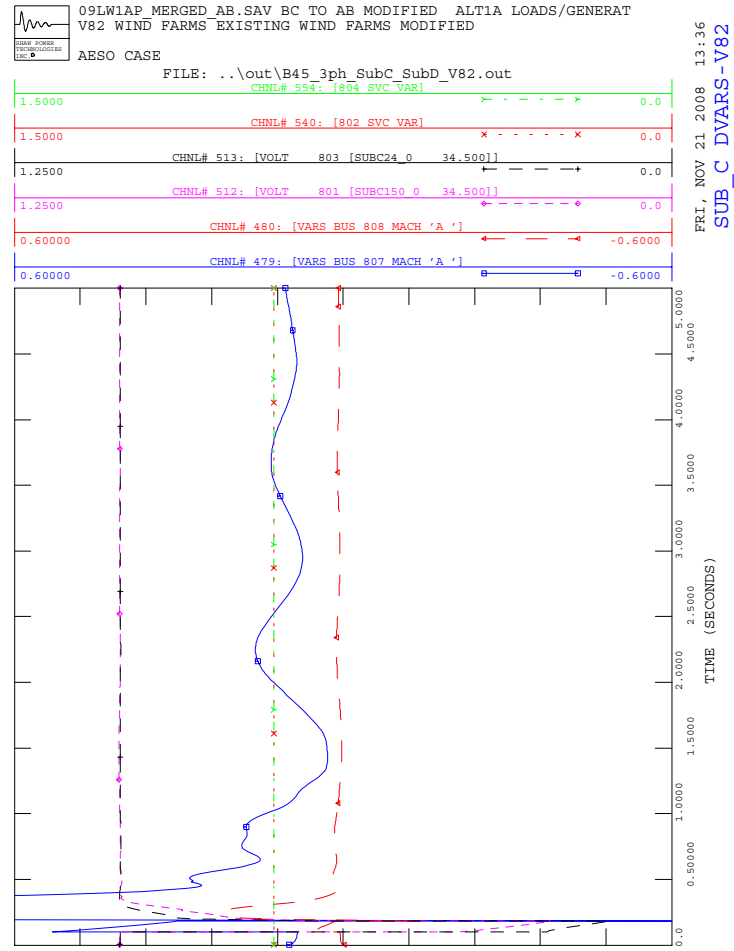


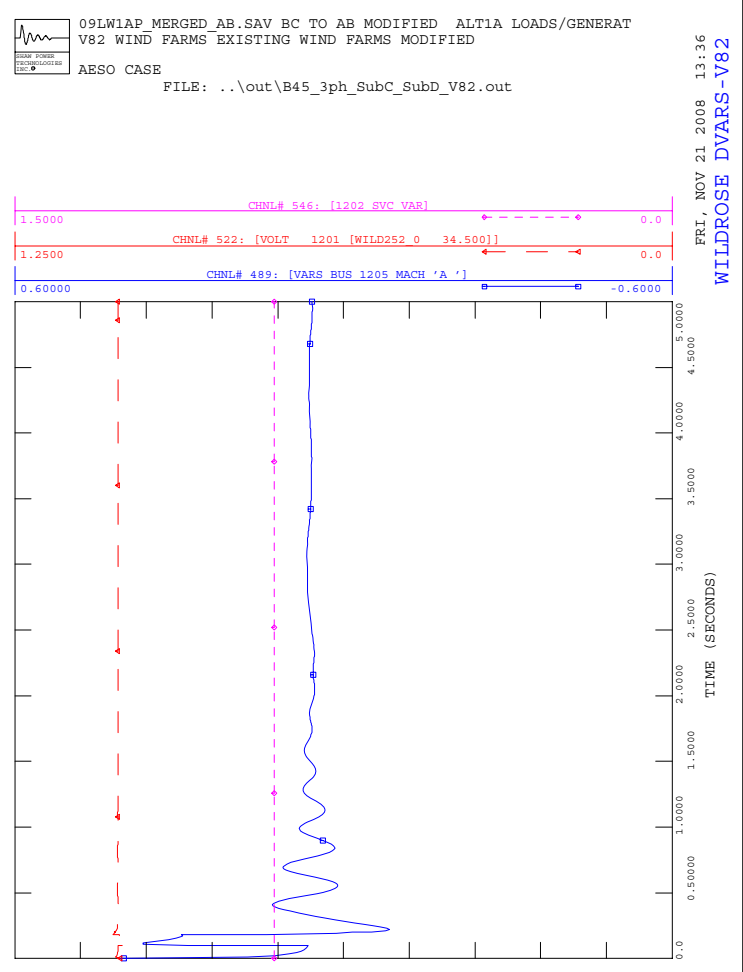
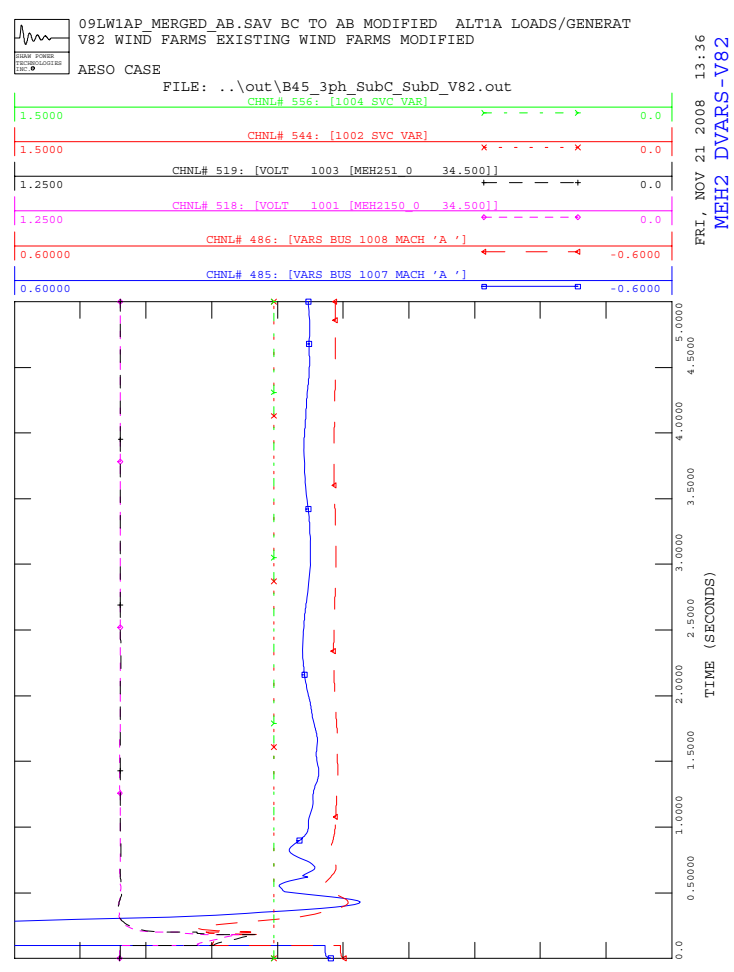
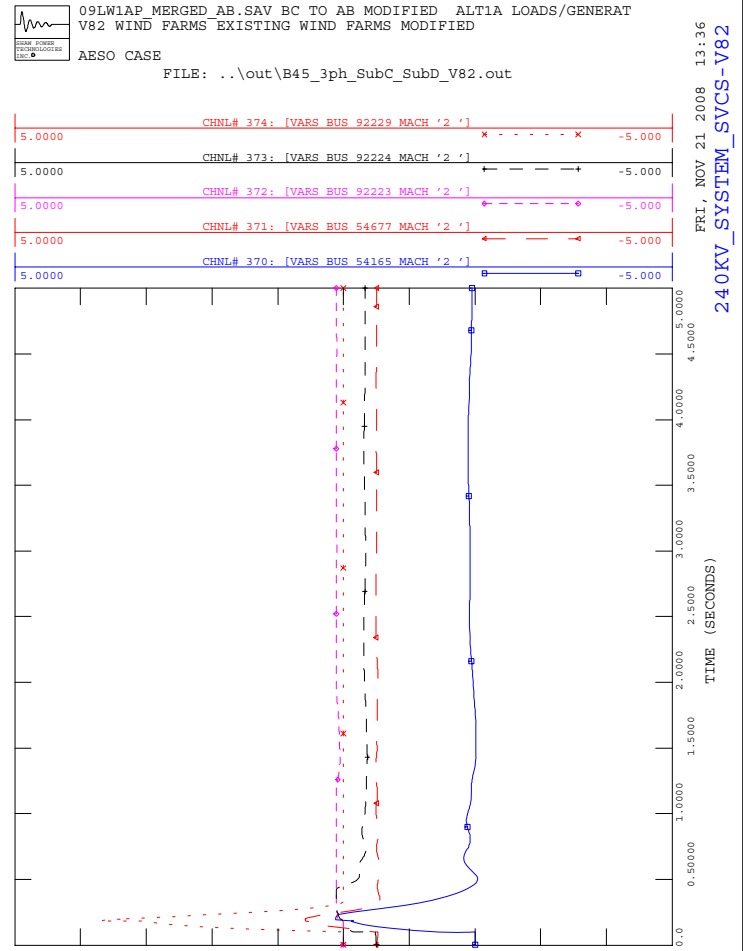
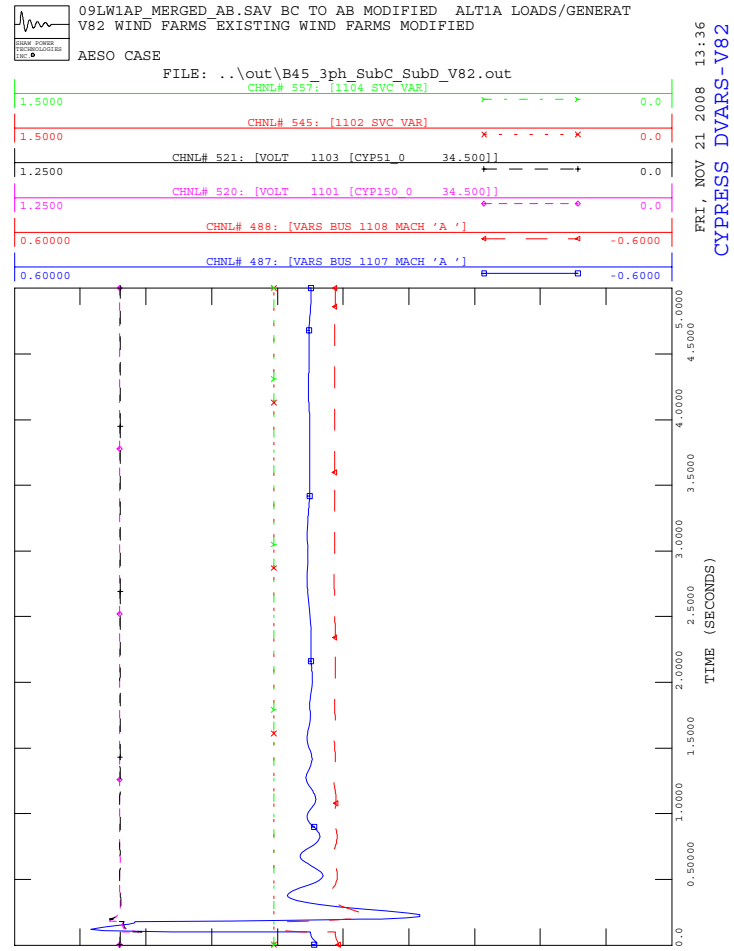












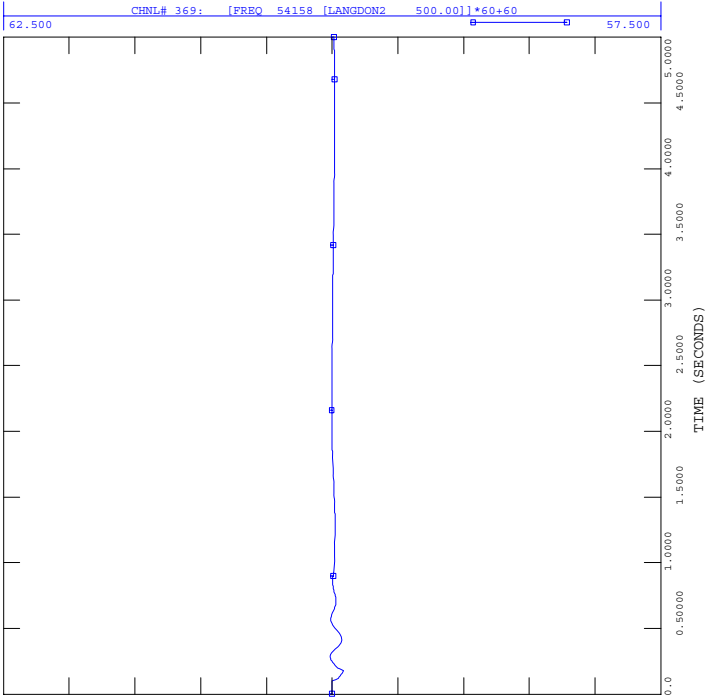


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B45_3ph_SubC_SubD_V82.out

FRI, NOV 21 2008 13:36
LANGDON_FRQ-V82

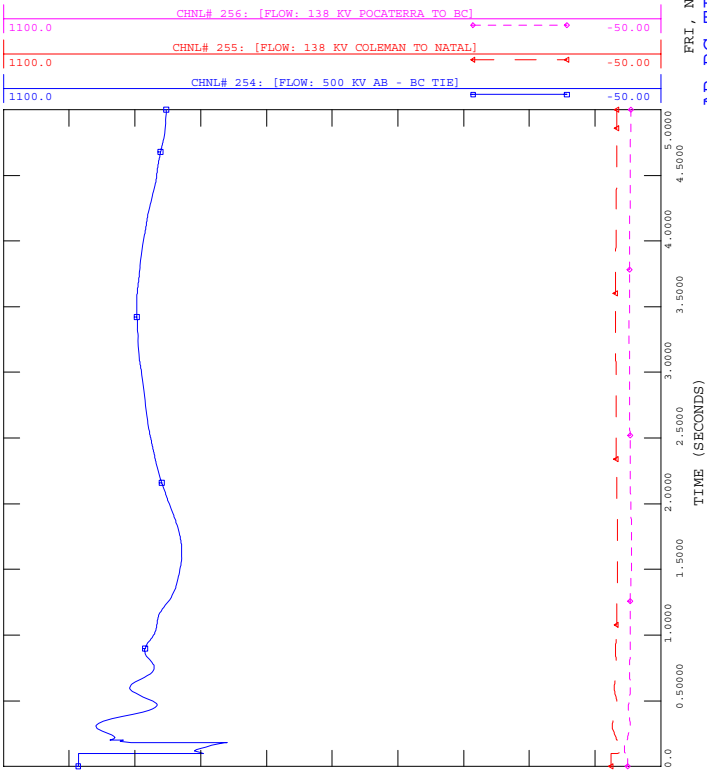


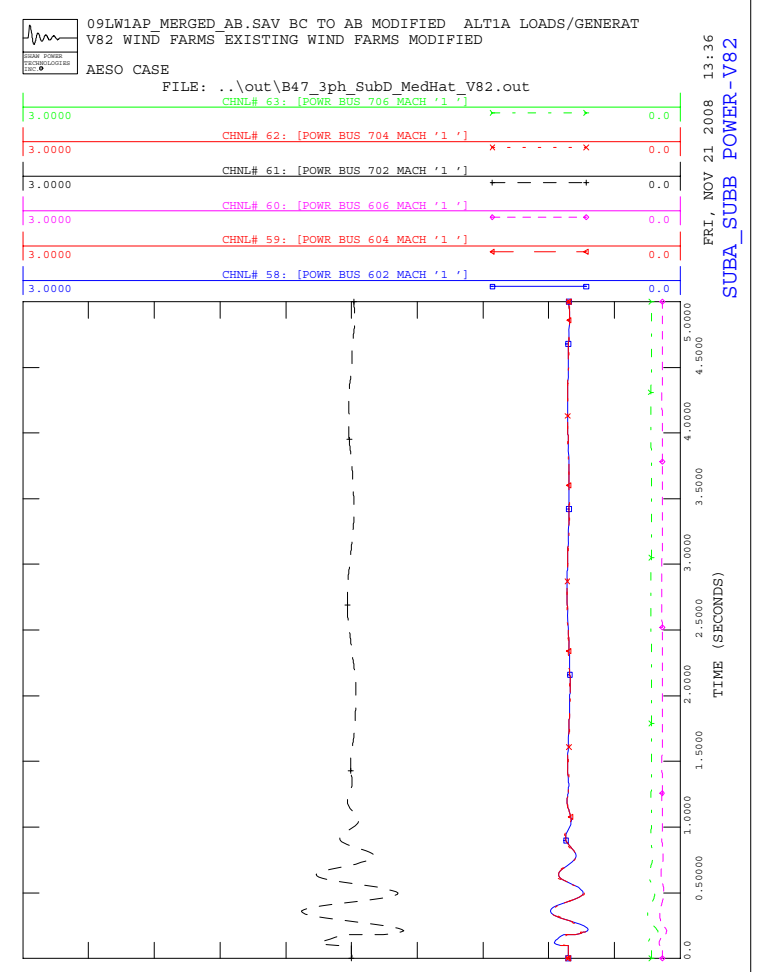
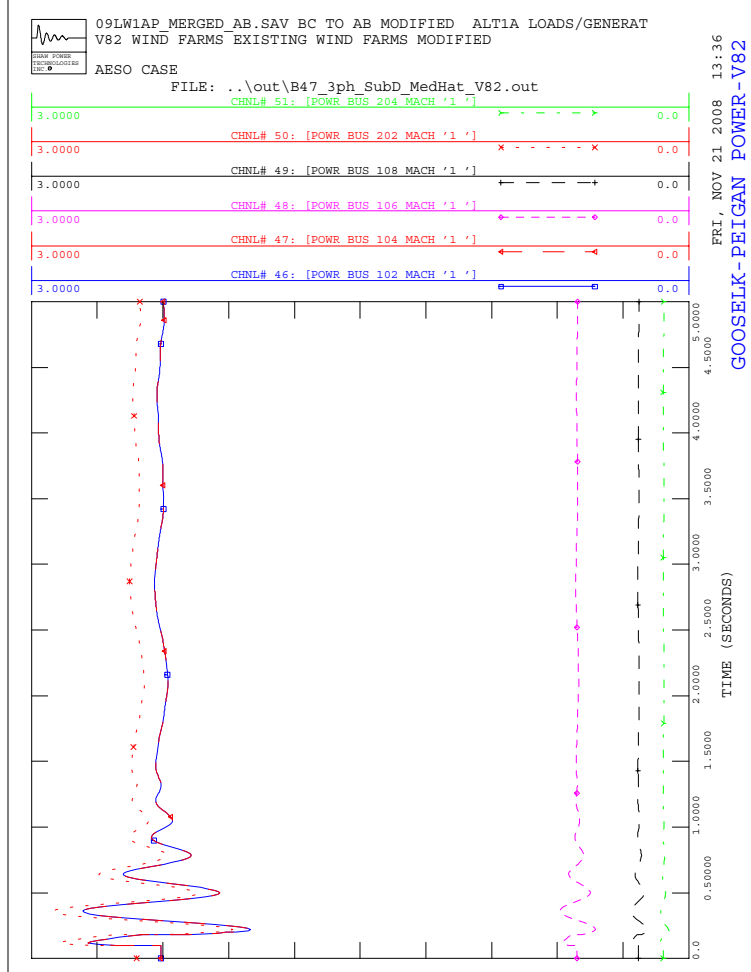
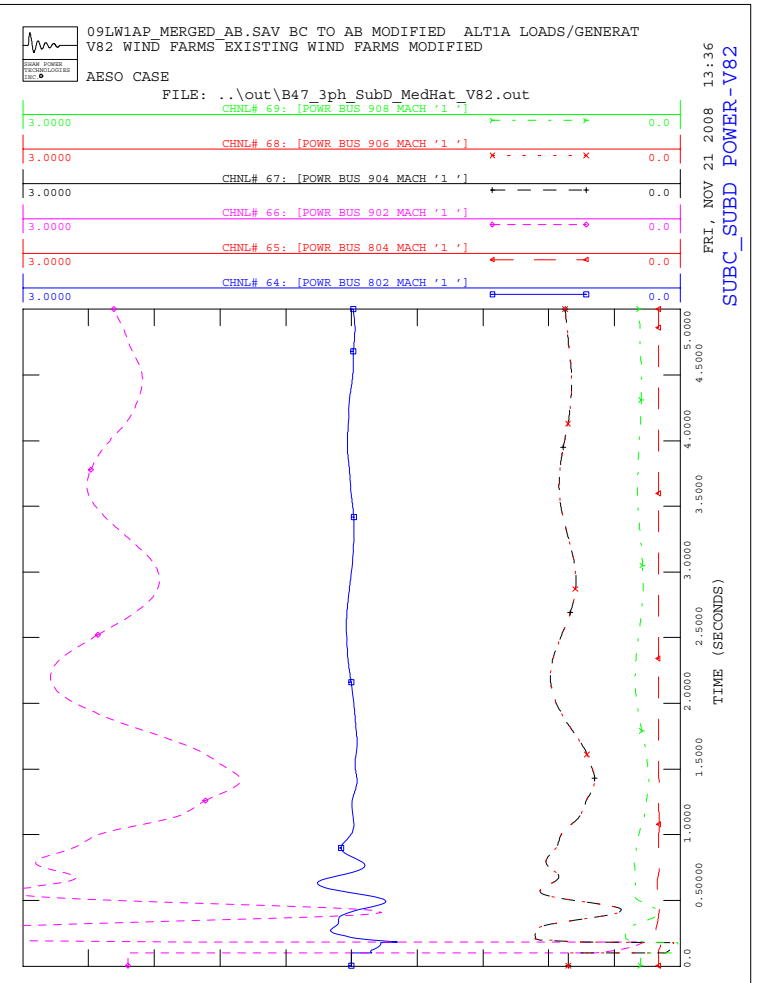
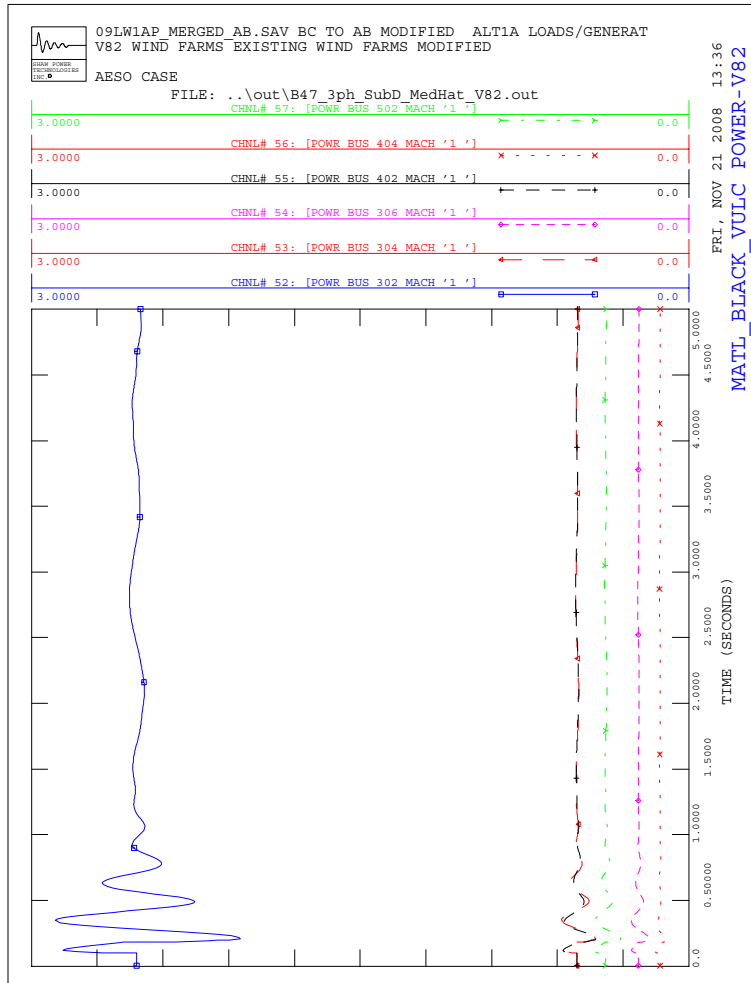
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

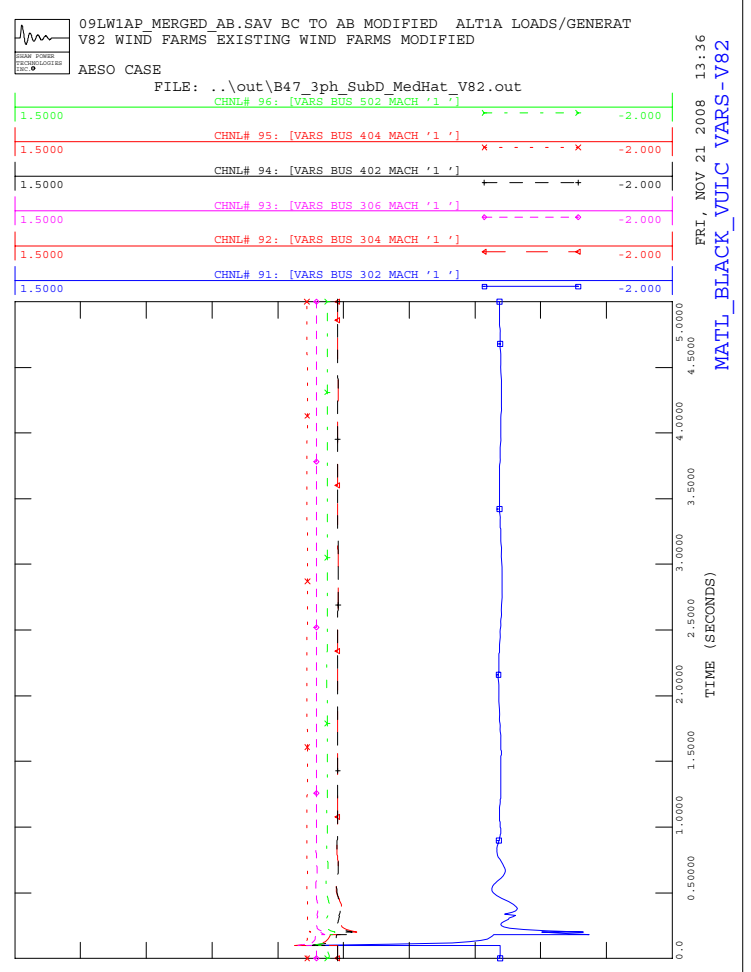
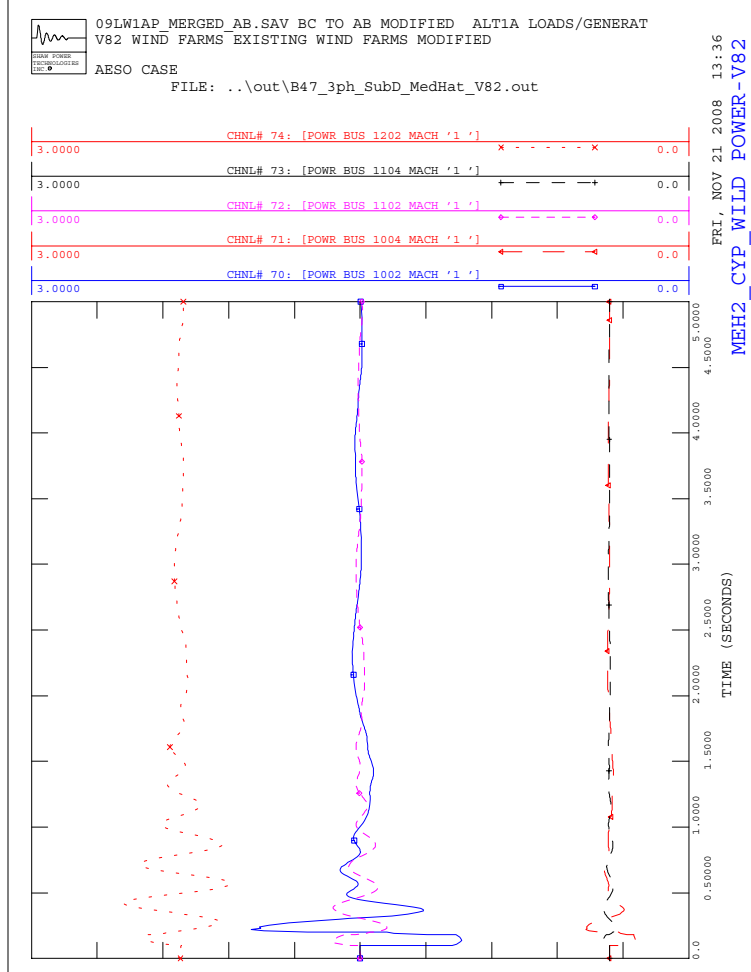
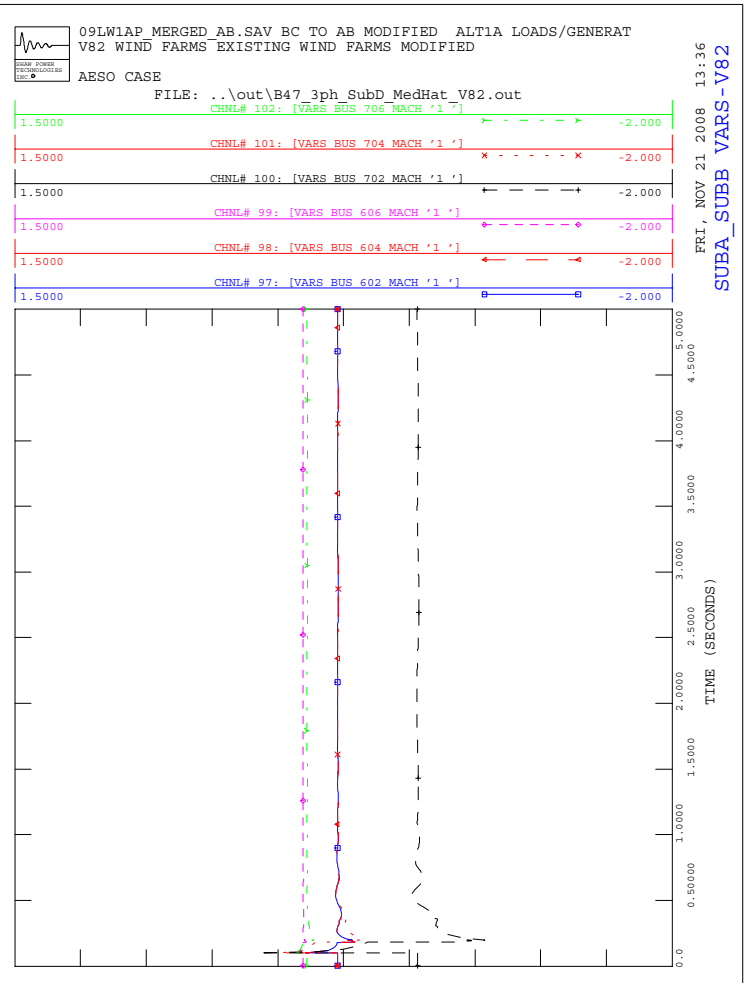
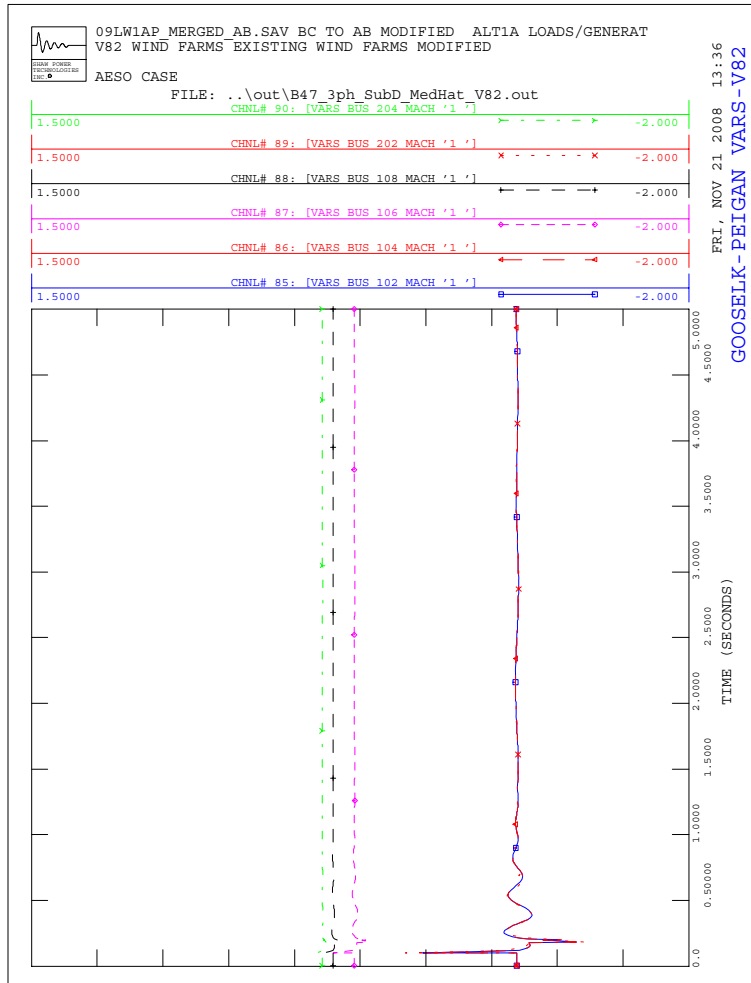
ABSO CASE

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FRI, NOV 21 2008 13:36
AB_BC_TIE_FLOWS-V82

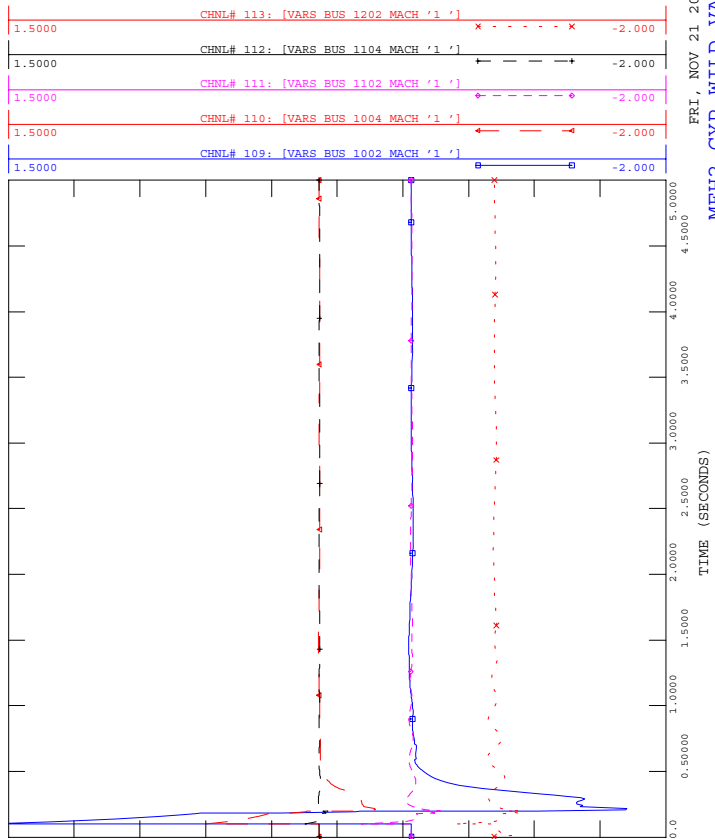






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

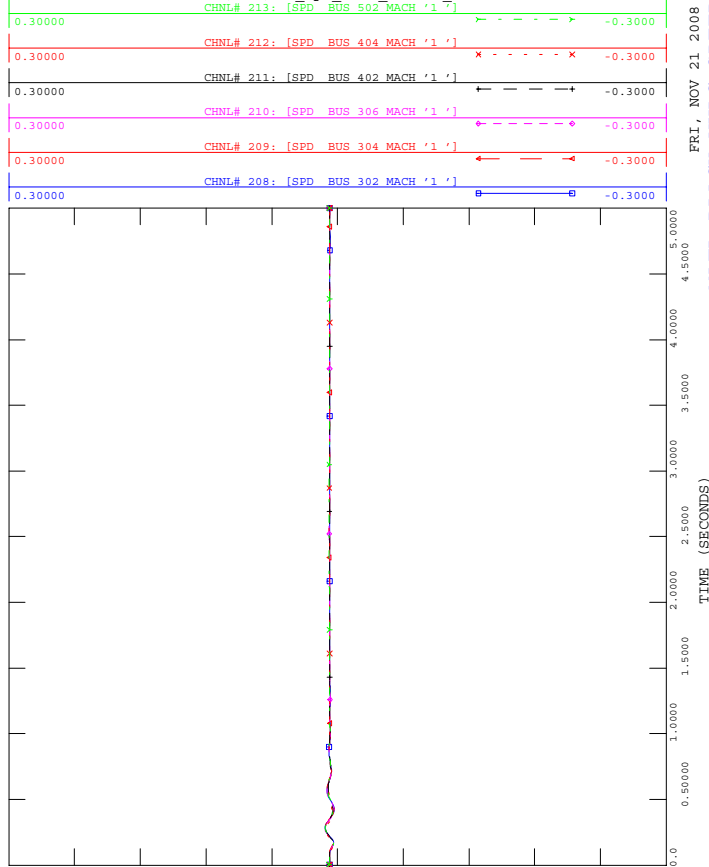
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FRI, NOV 21 2008 13:36

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

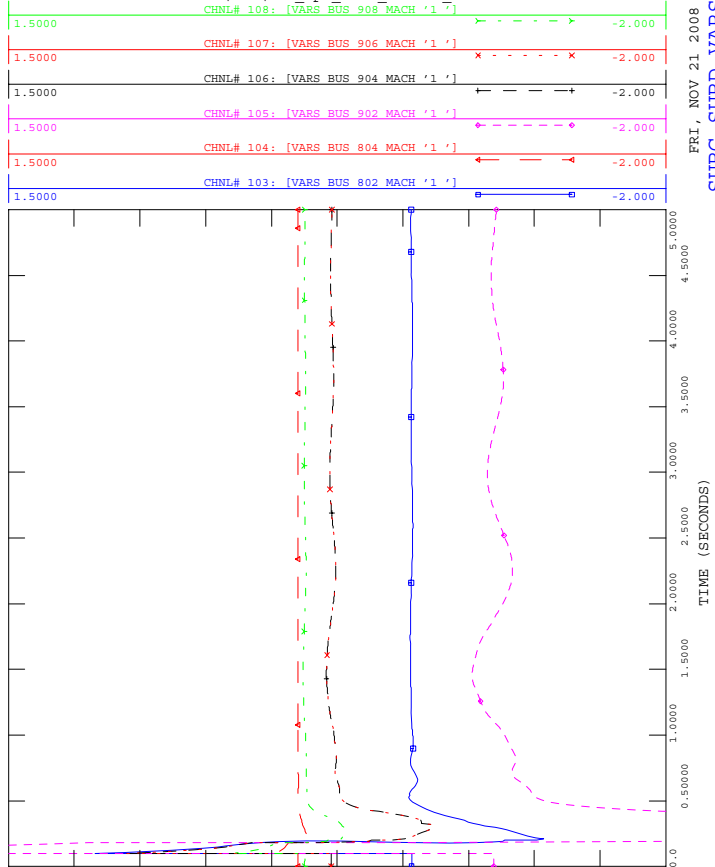
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FRI, NOV 21 2008 13:36

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

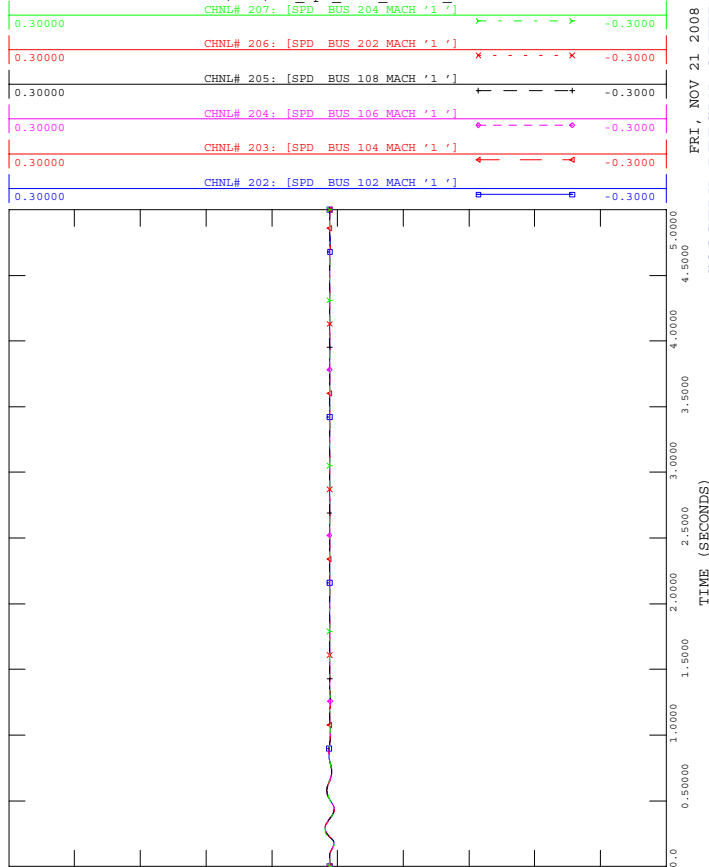
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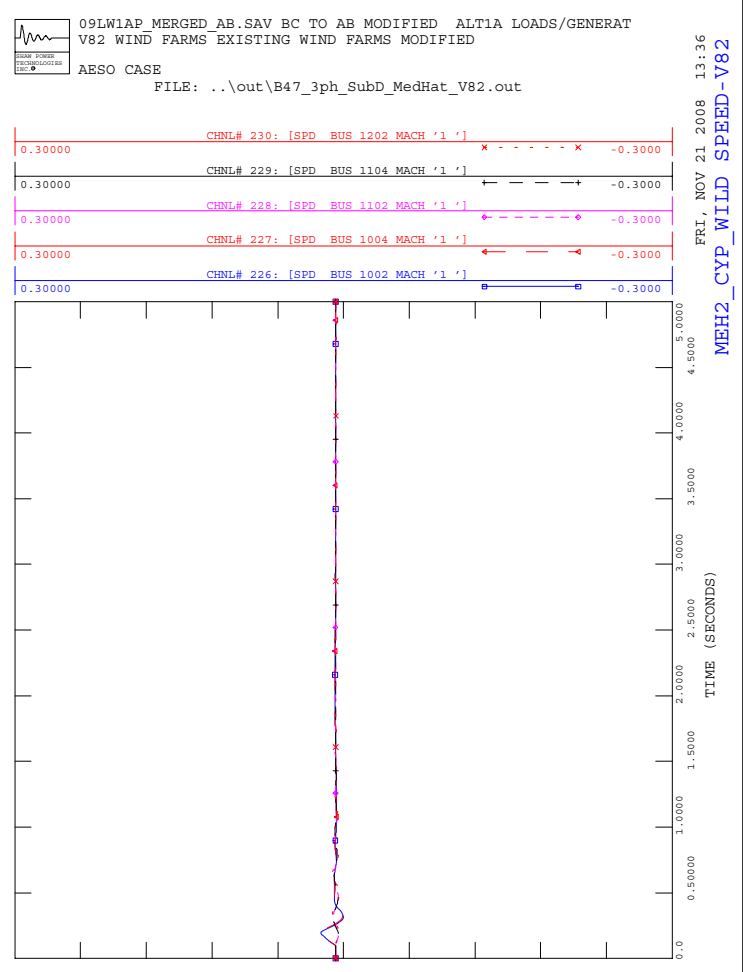
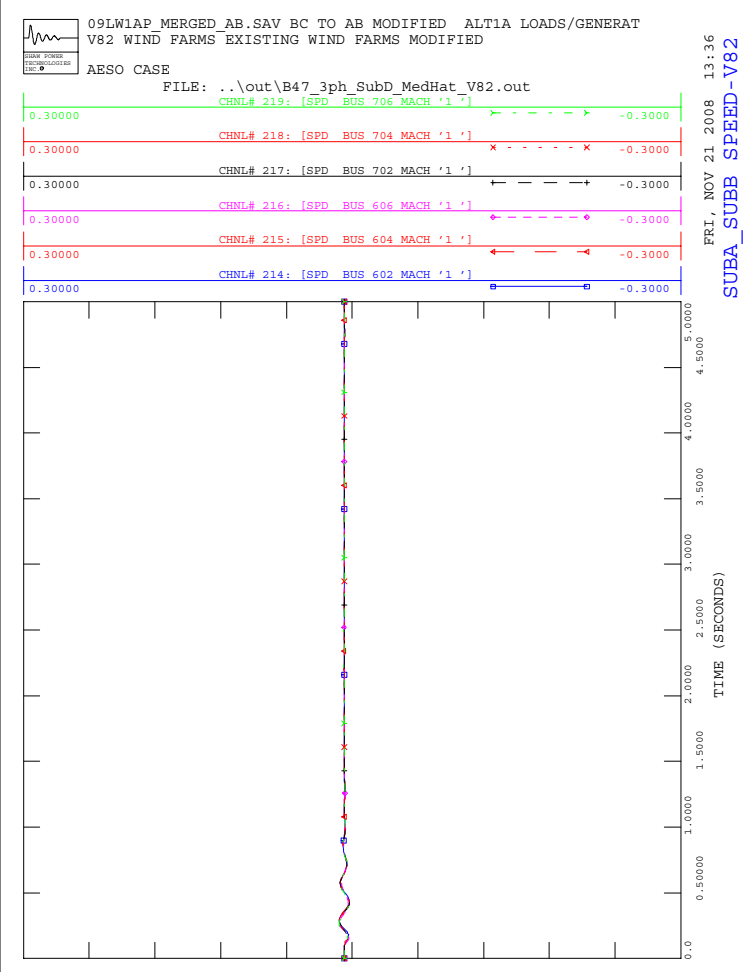
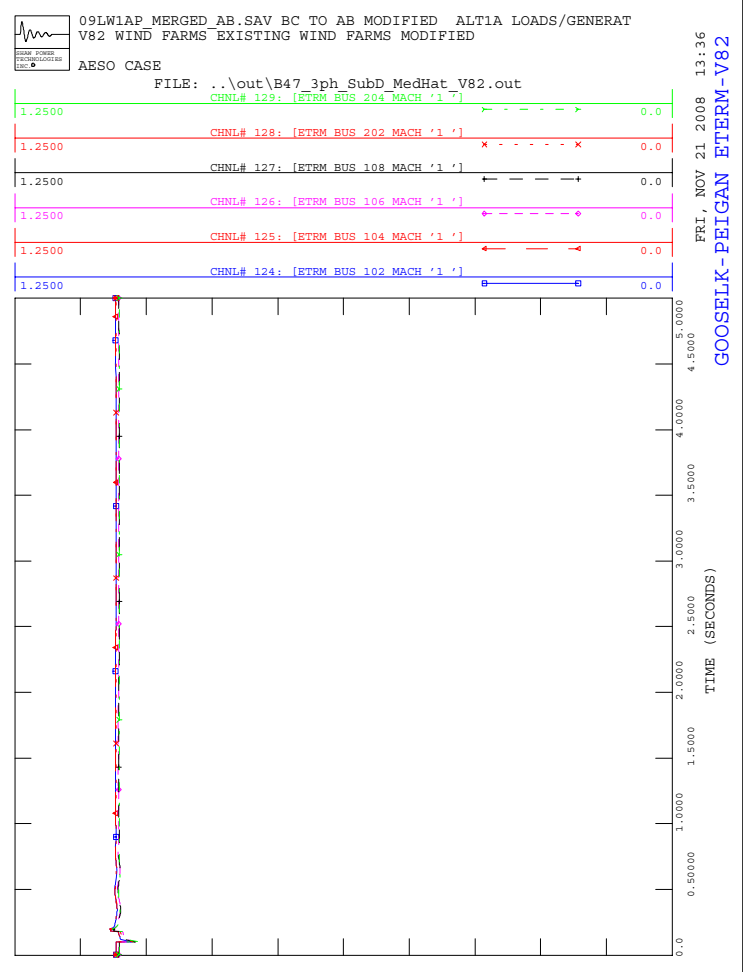
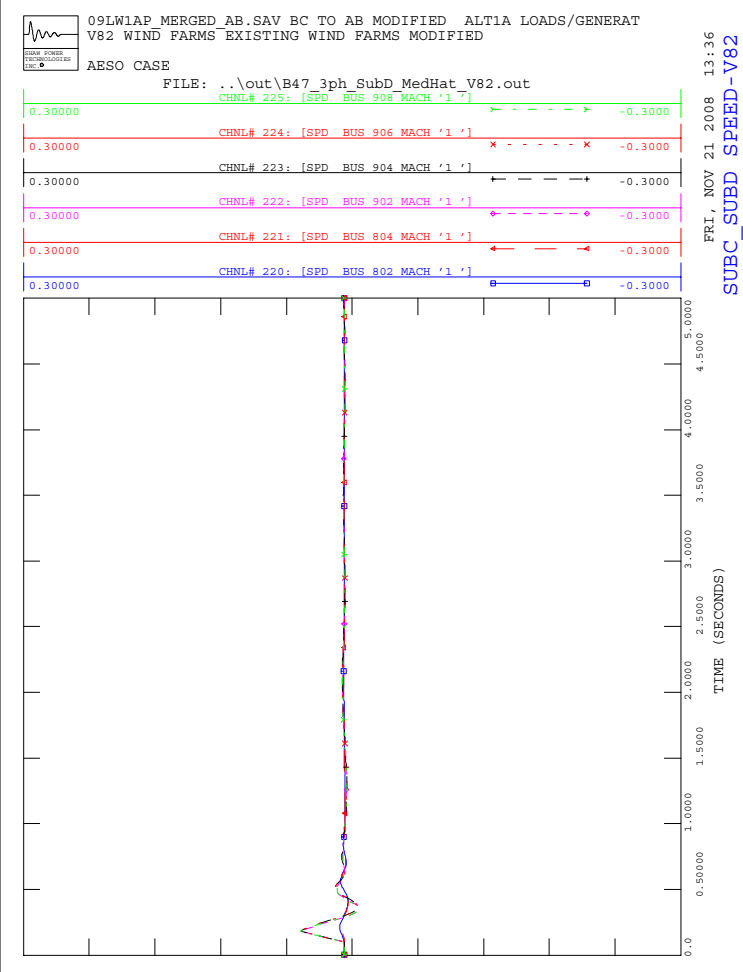
FRI, NOV 21 2008 13:36

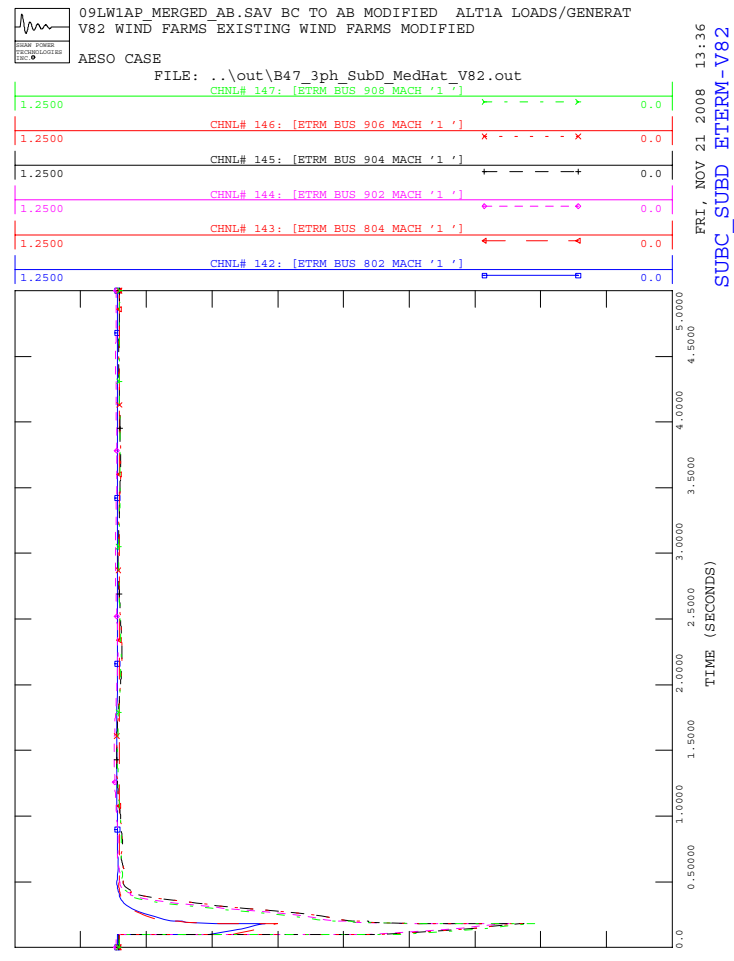
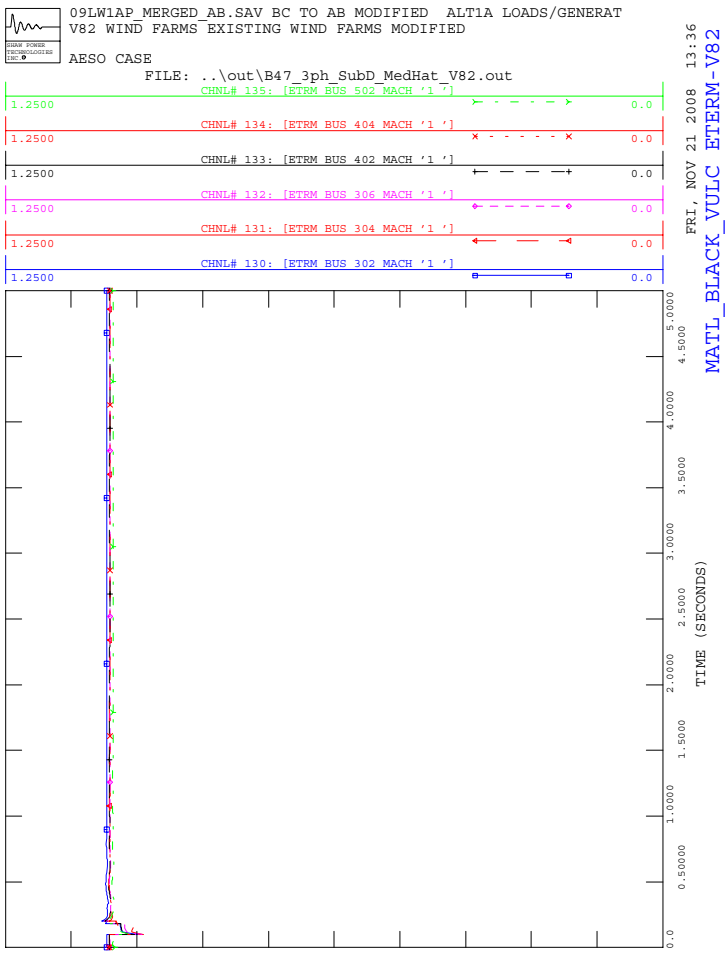
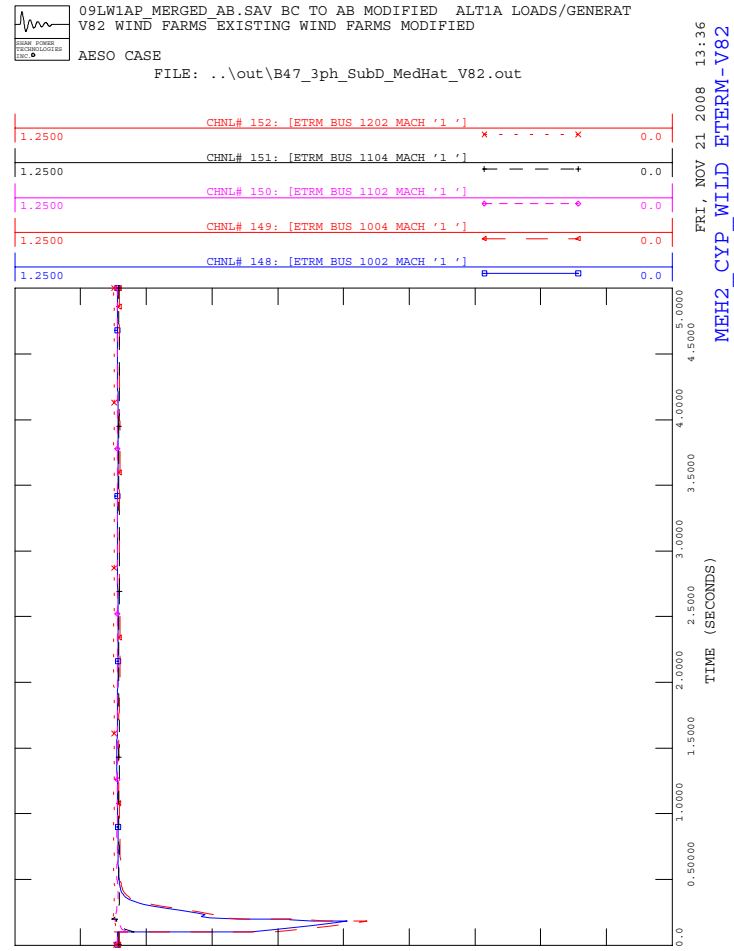
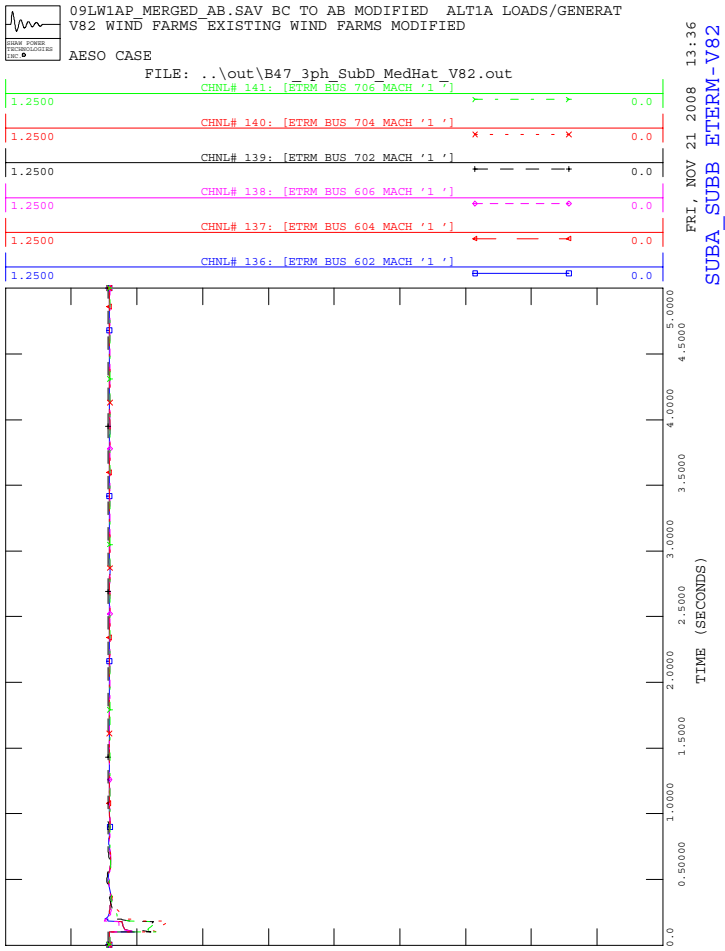
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

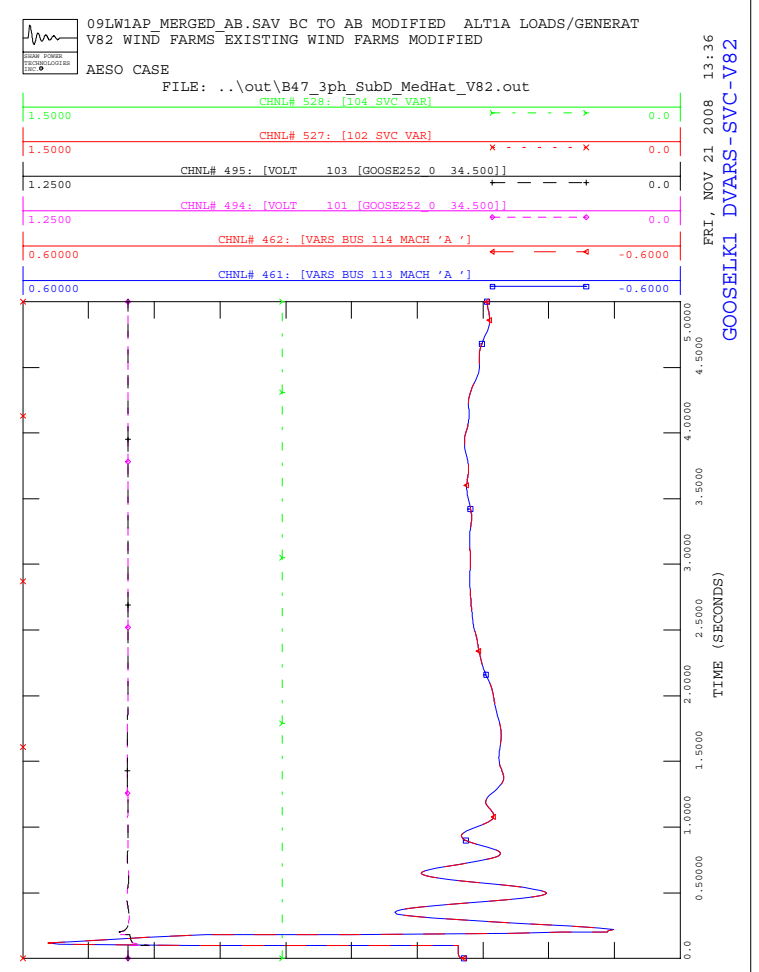
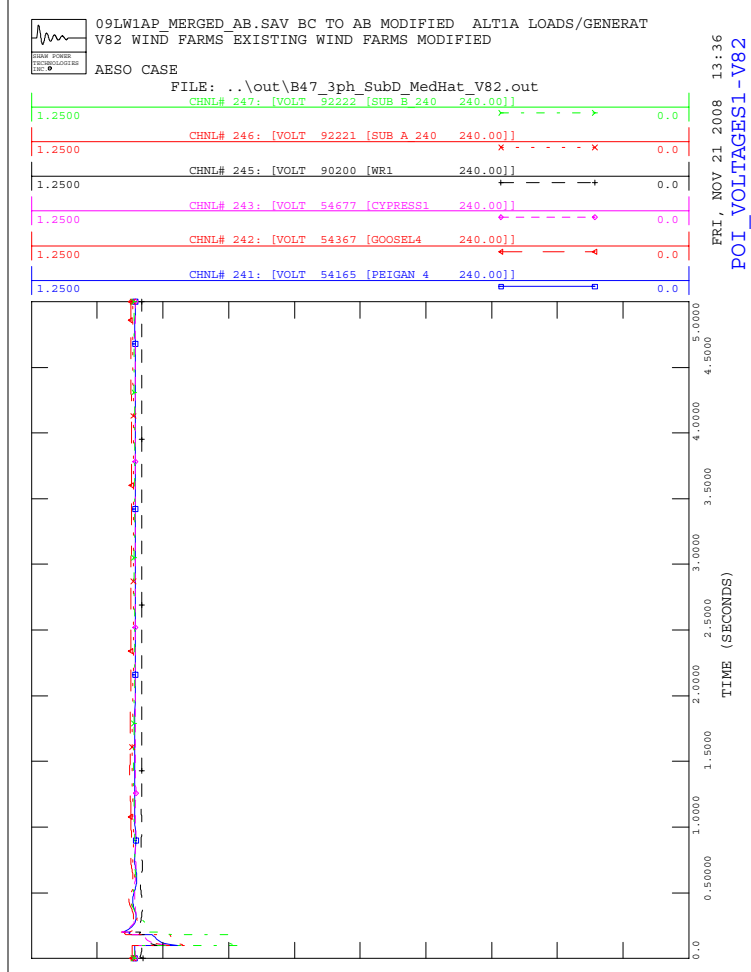
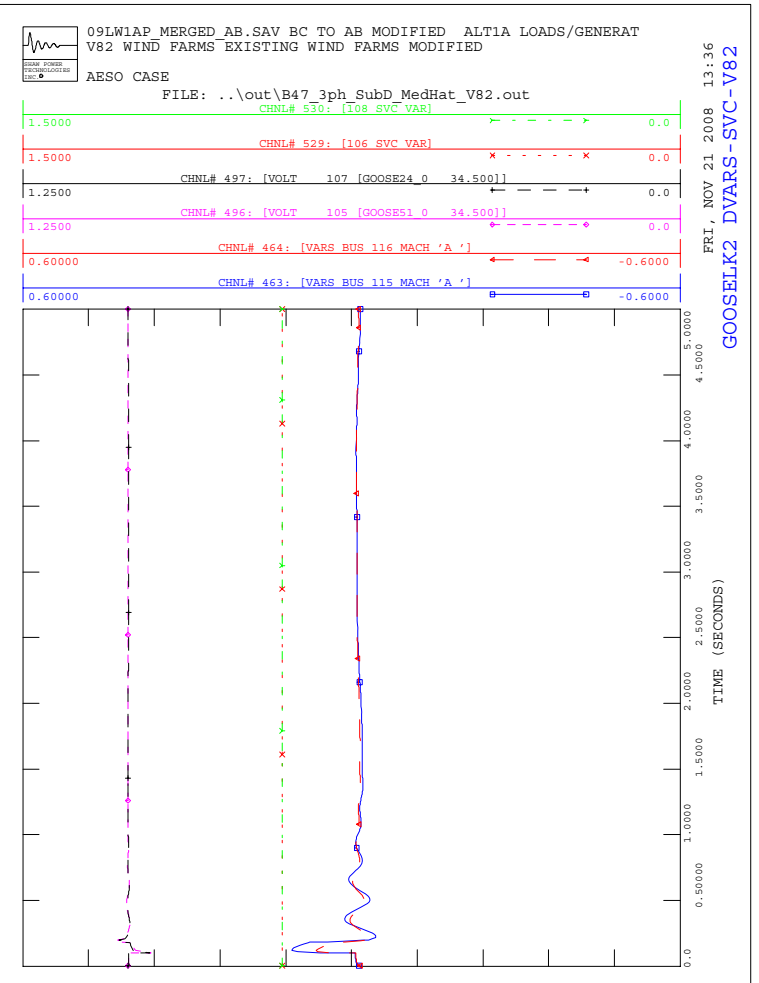
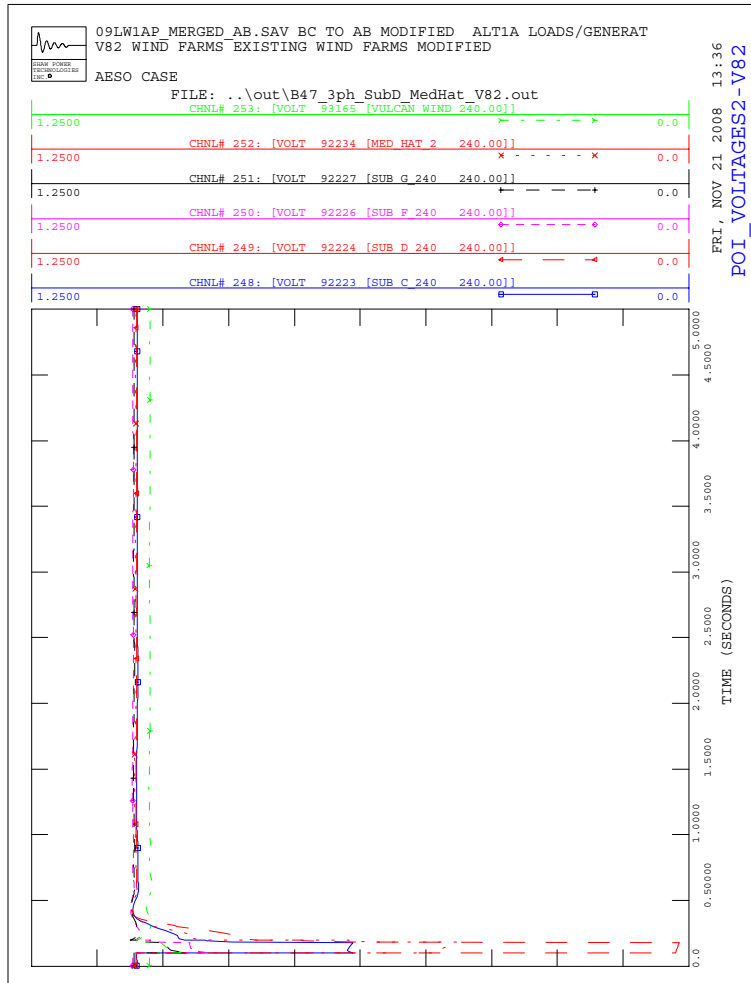
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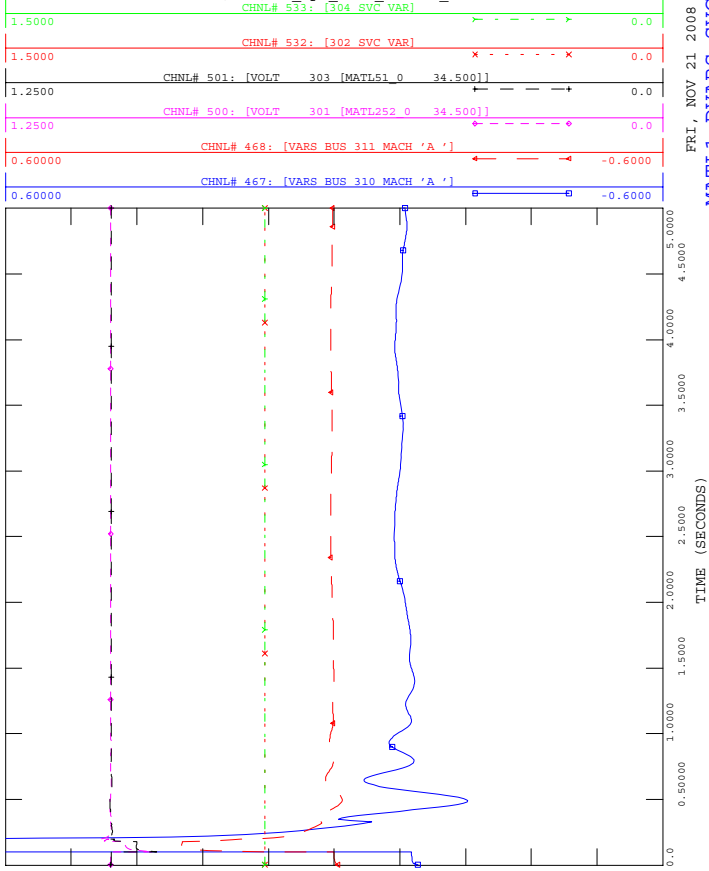






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

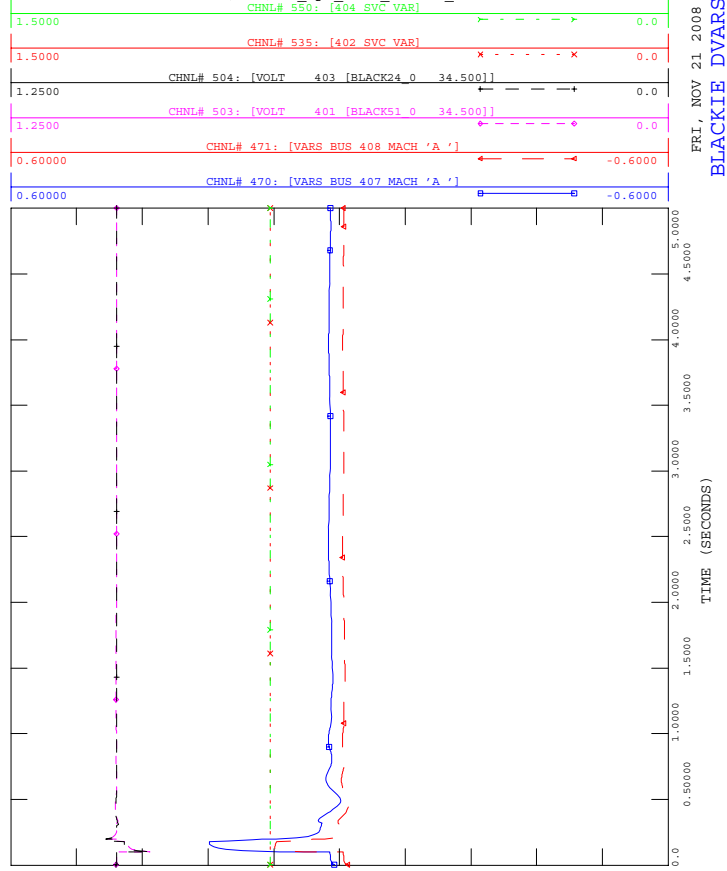
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FRI, NOV 21 2008 13:36
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

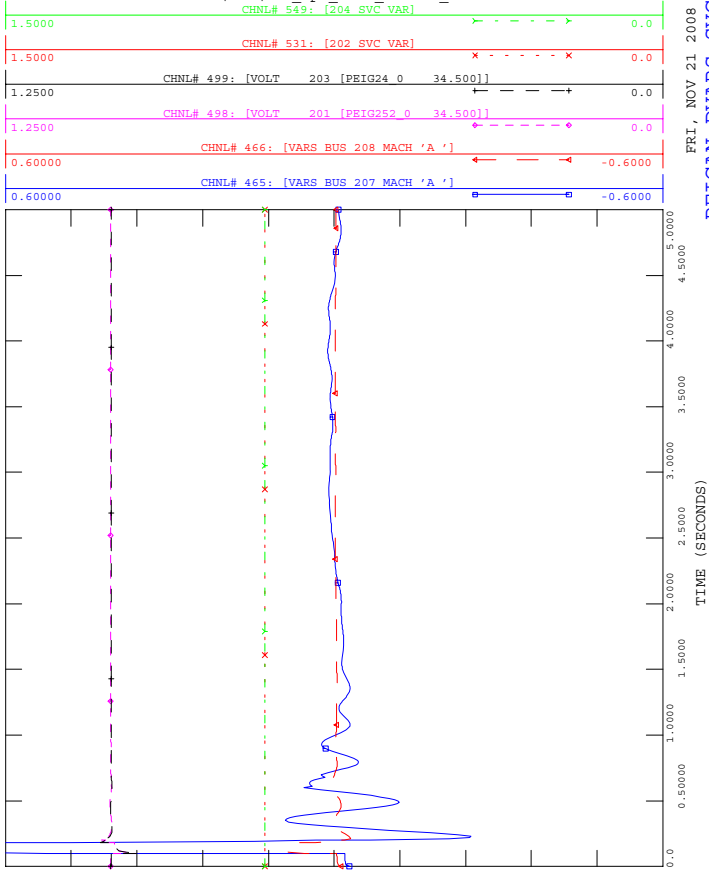
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FRI, NOV 21 2008 13:36
 BLACKIE DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

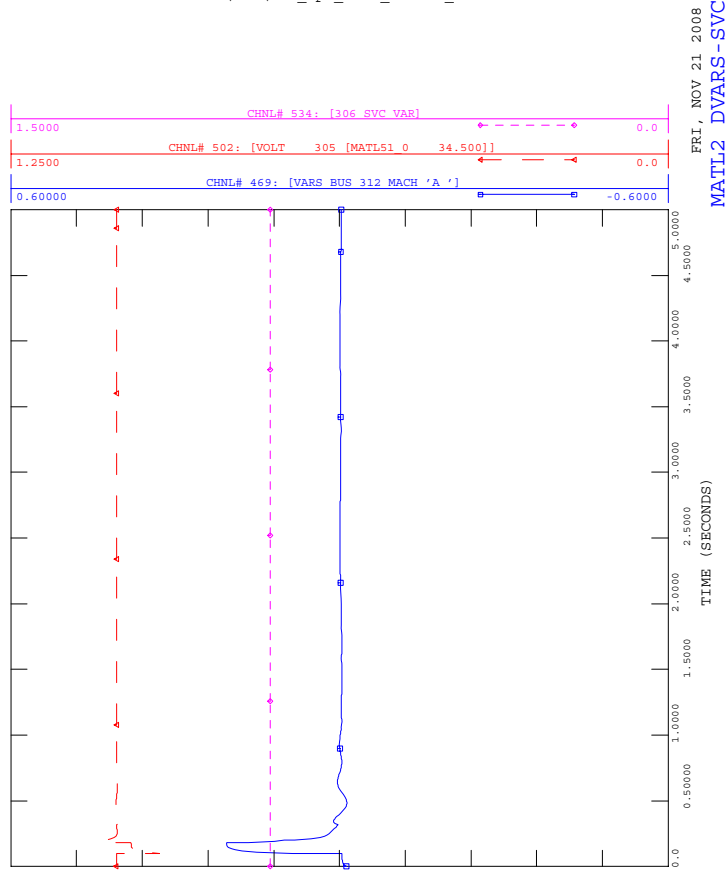
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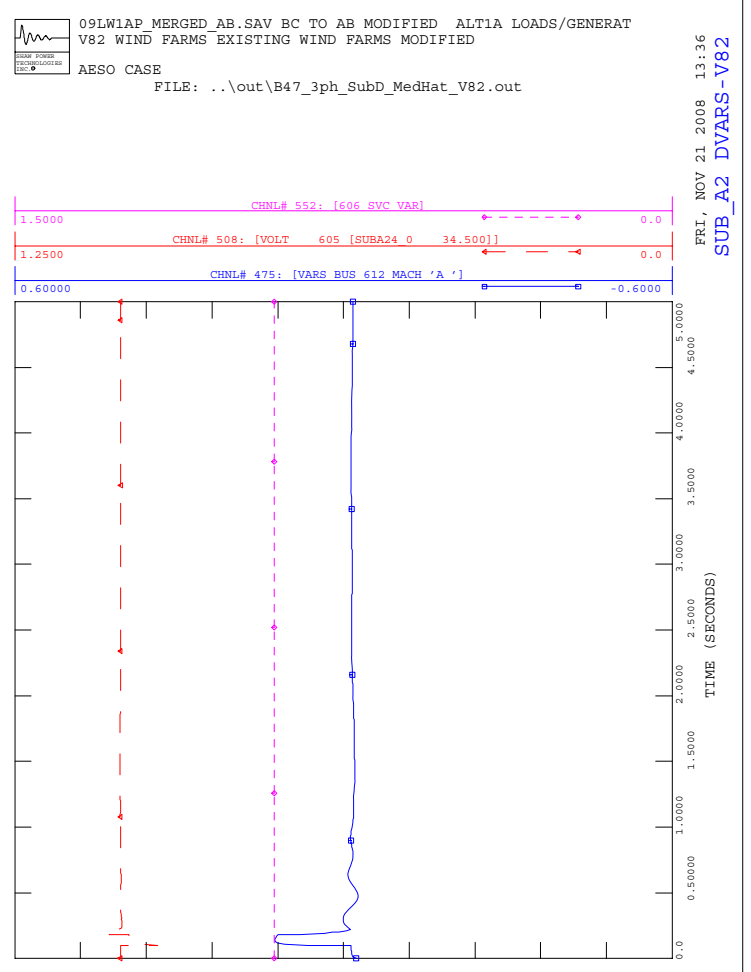
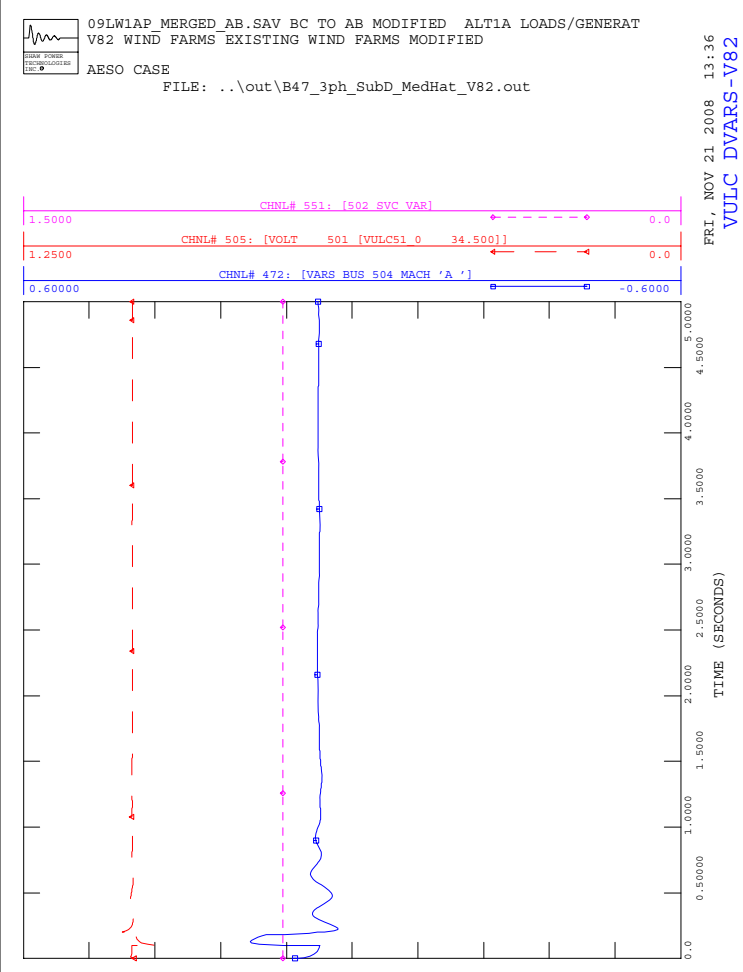
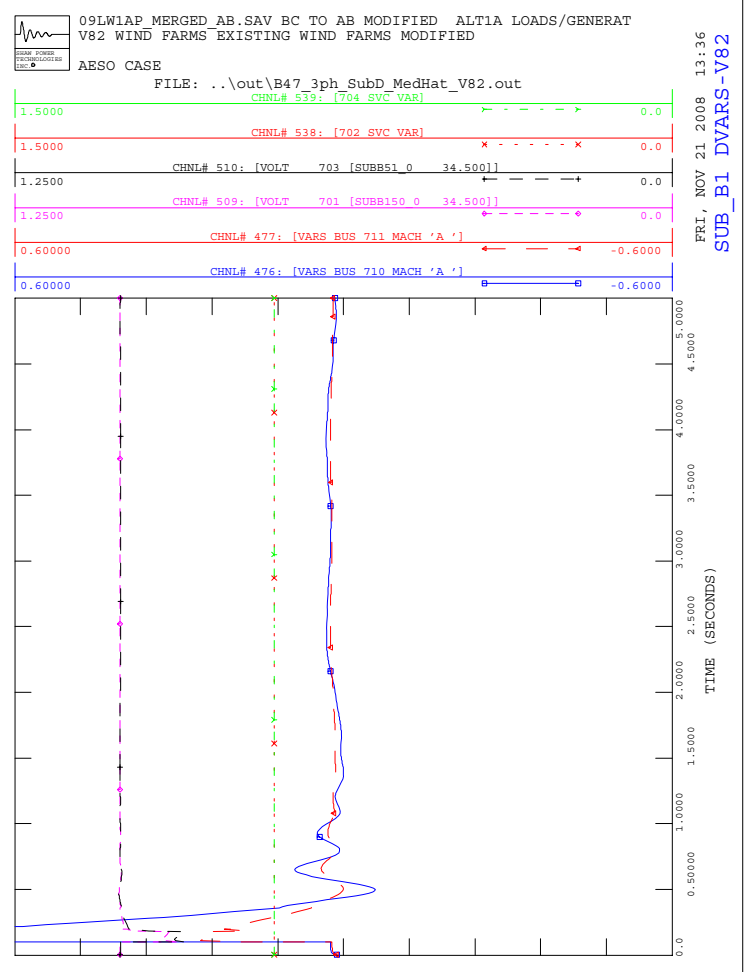
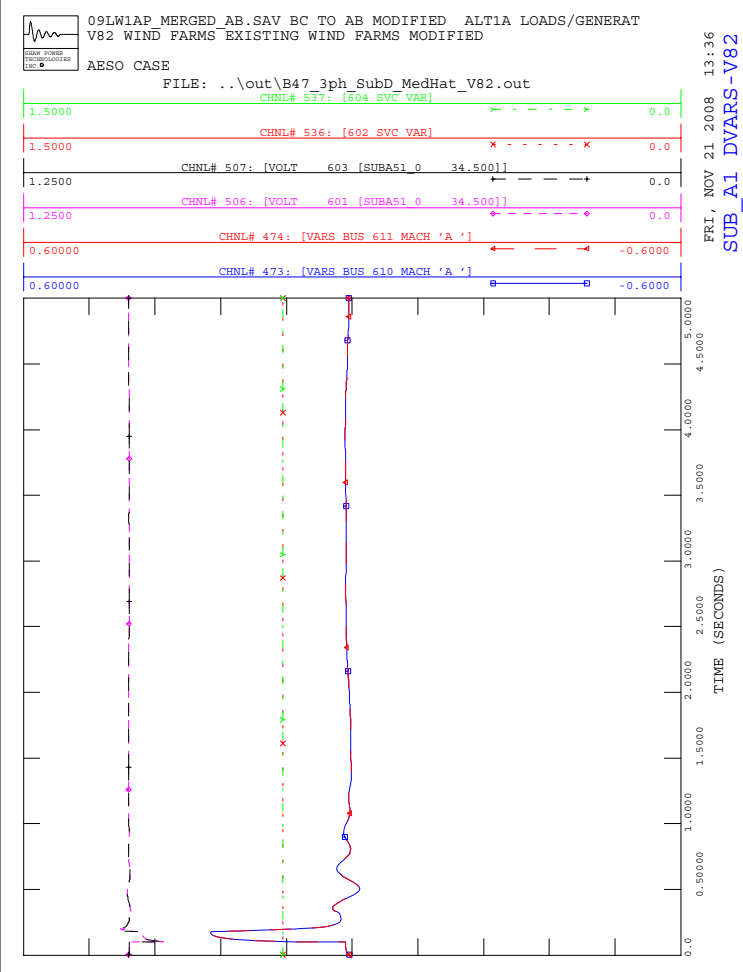
FRI, NOV 21 2008 13:36
 PEIGAN DVARS-SVC-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

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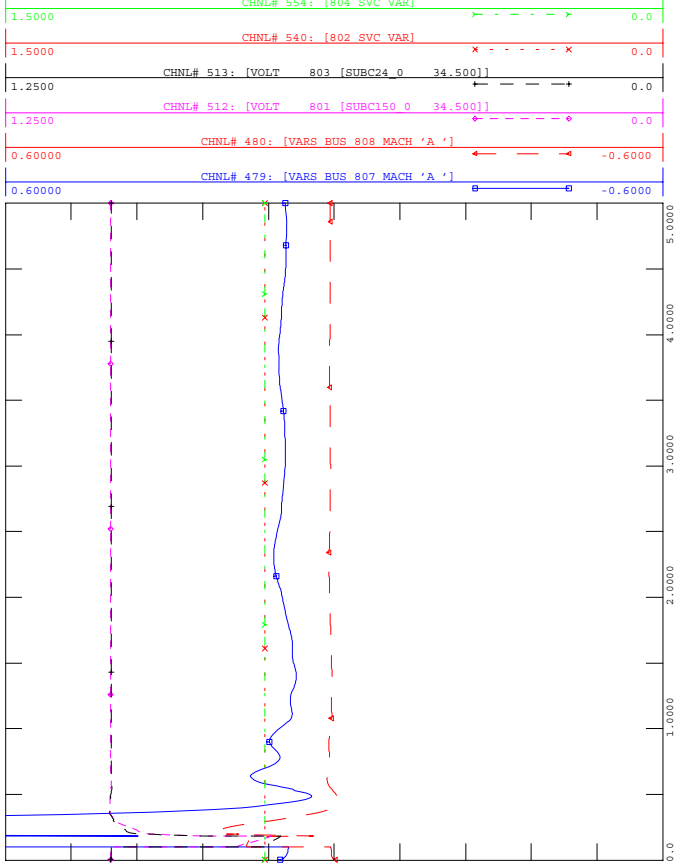


FRI, NOV 21 2008 13:36
 MATL2 DVARS-SVC-V82



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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

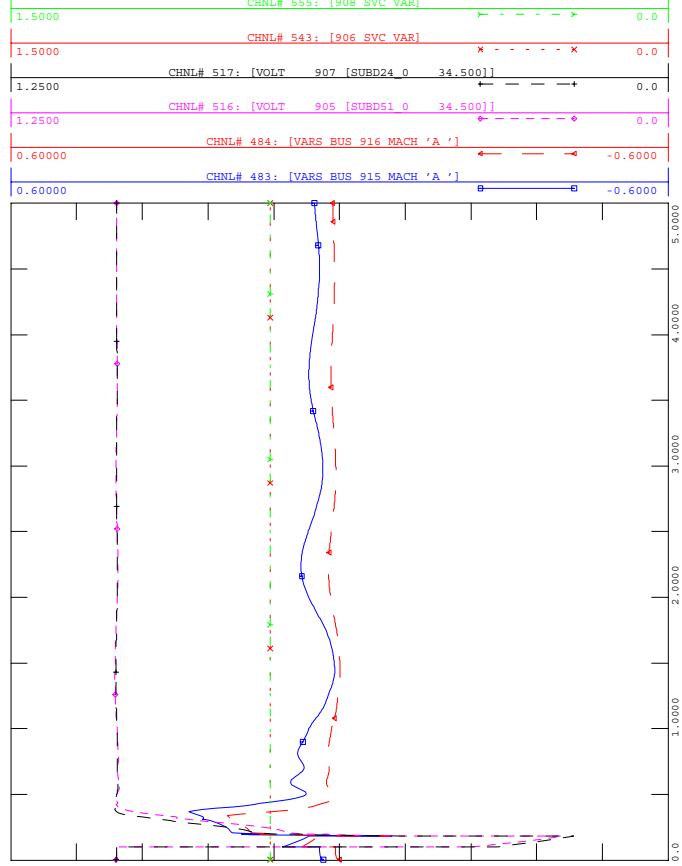
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FRI, NOV 21 2008 13:36
 SUB_C DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

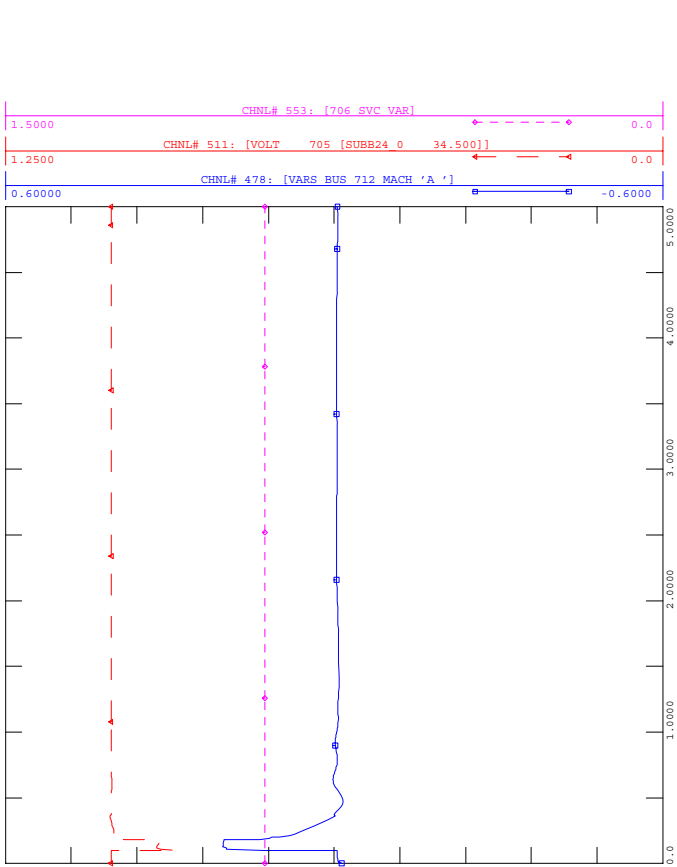
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FRI, NOV 21 2008 13:36
 SUB_D2 DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

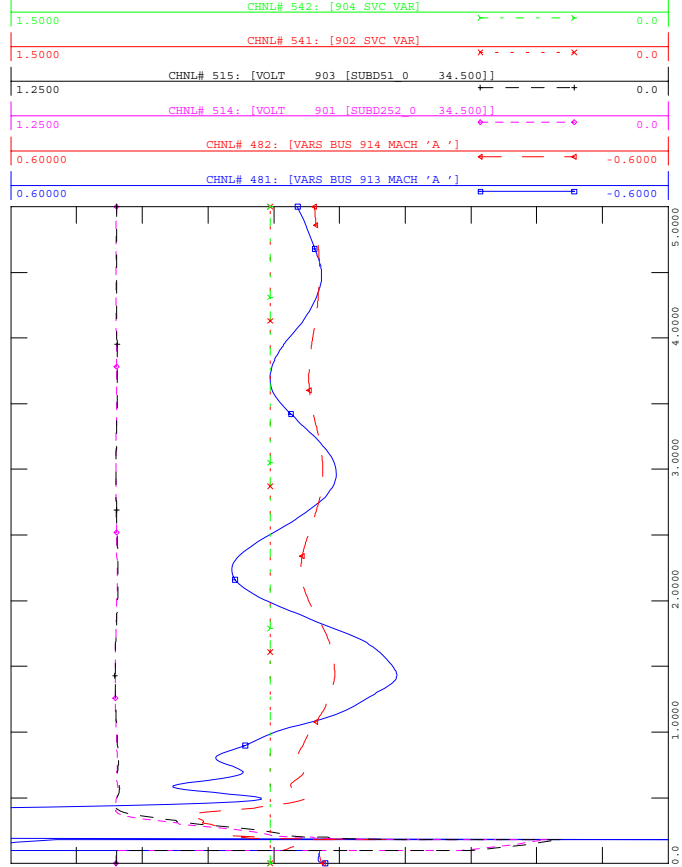
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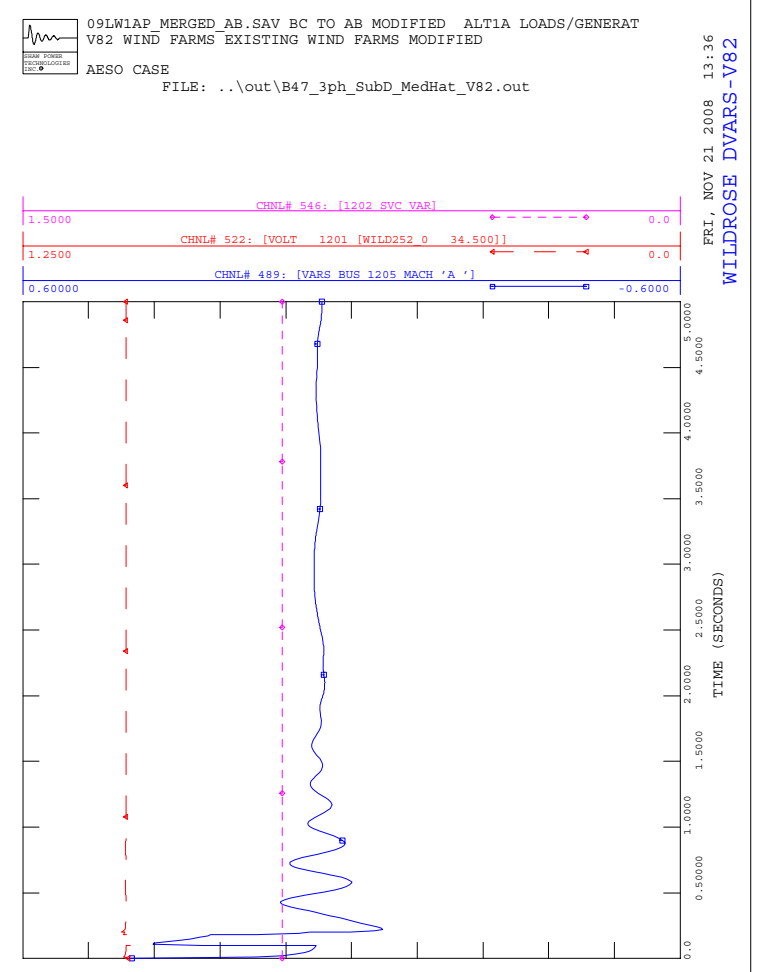
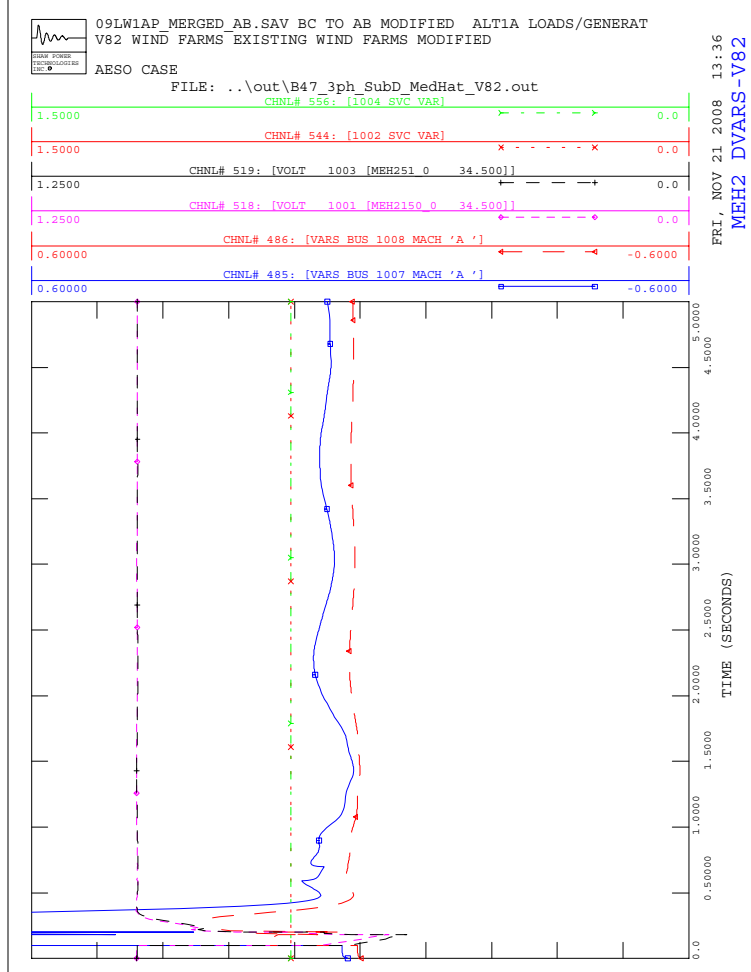
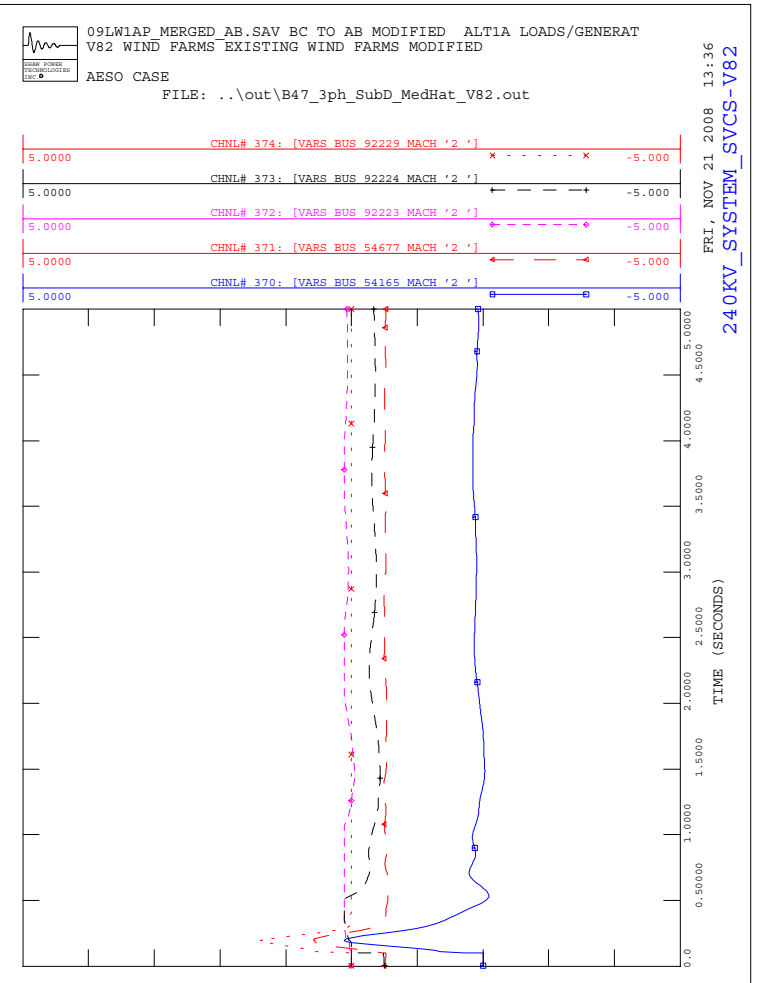
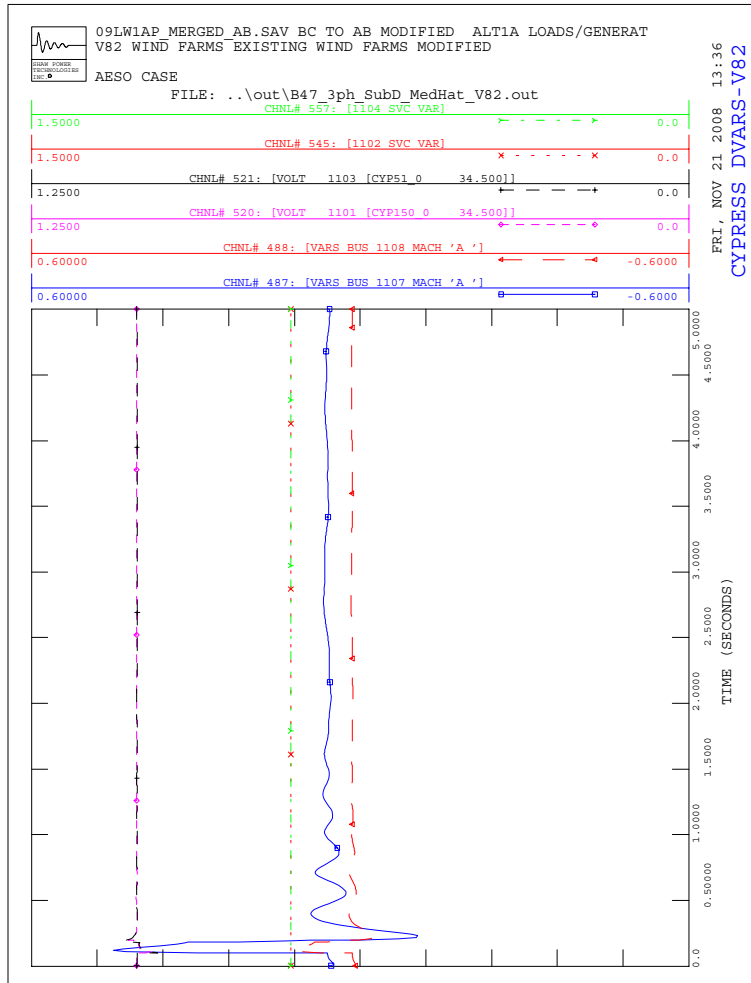
FRI, NOV 21 2008 13:36
 SUB_B2 DVARS-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 ABSO CASE

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FRI, NOV 21 2008 13:36
 SUB_D1 DVARS-V82



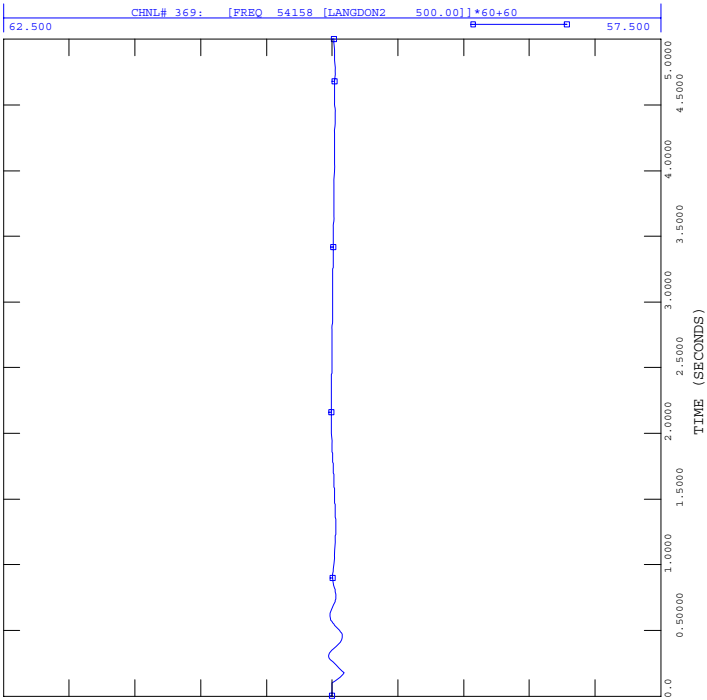


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B47_3ph_SubD_MedHat_V82.out

FRI, NOV 21 2008 13:36
LANGDON_FRQ-V82

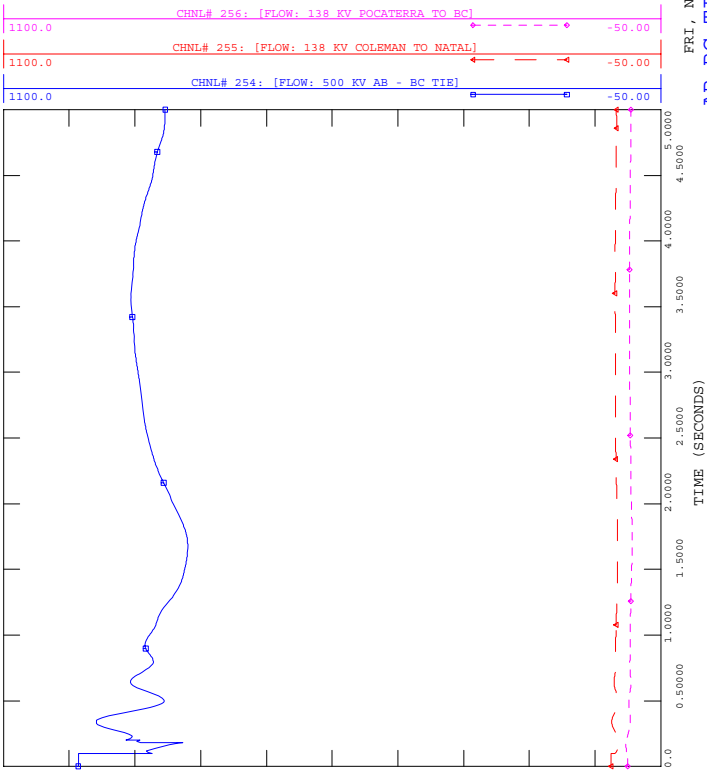


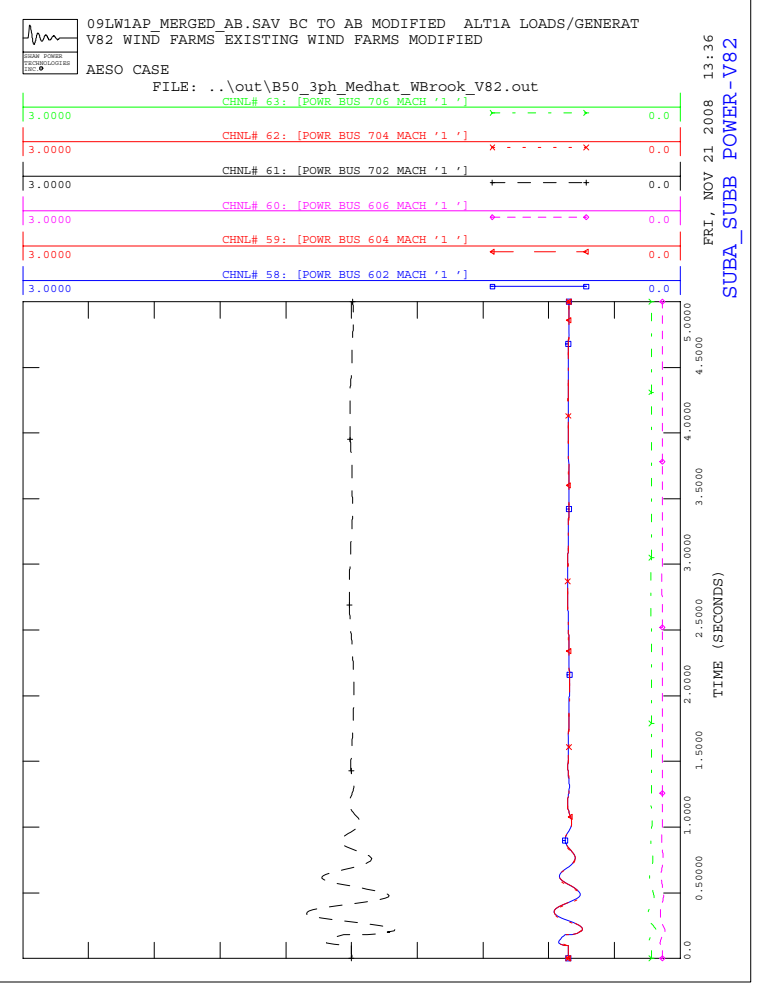
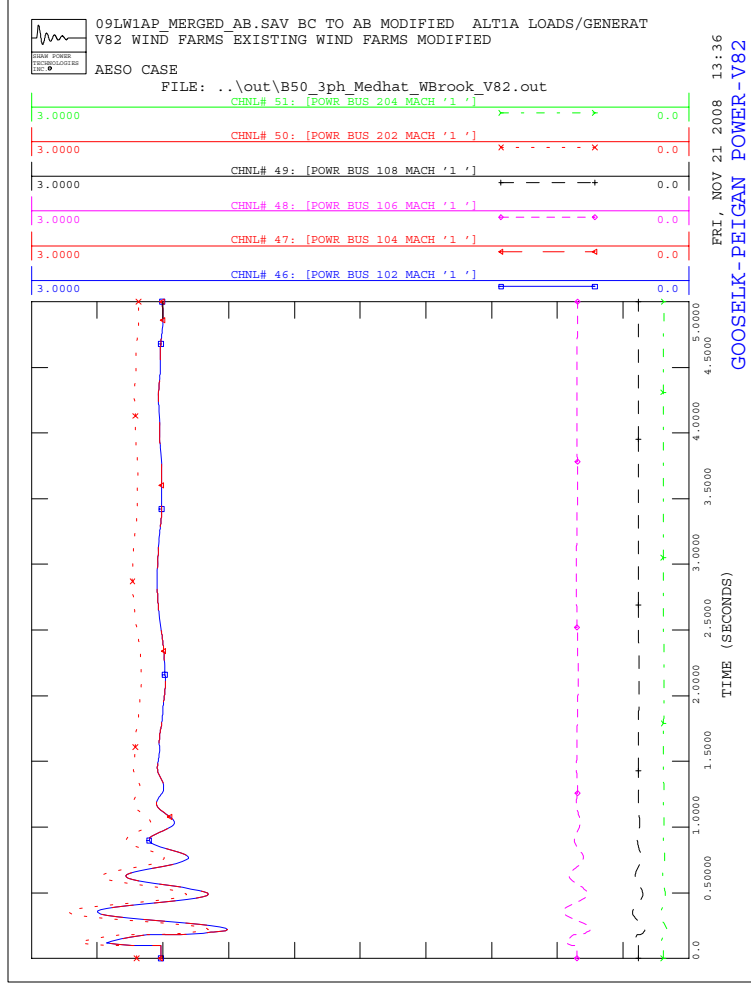
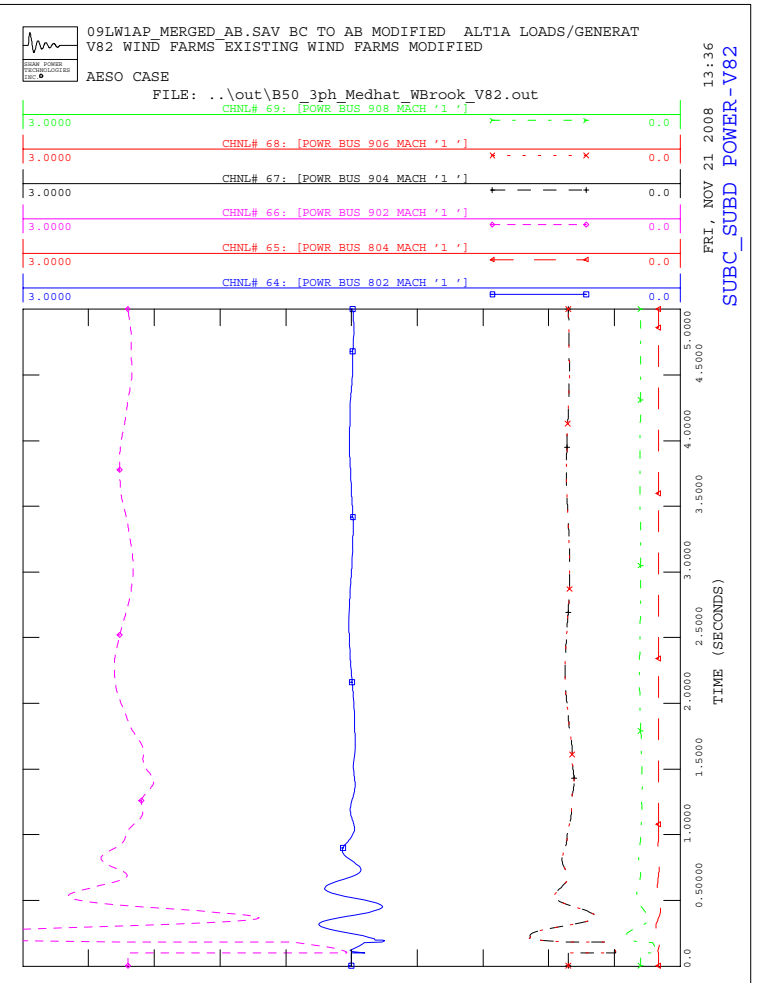
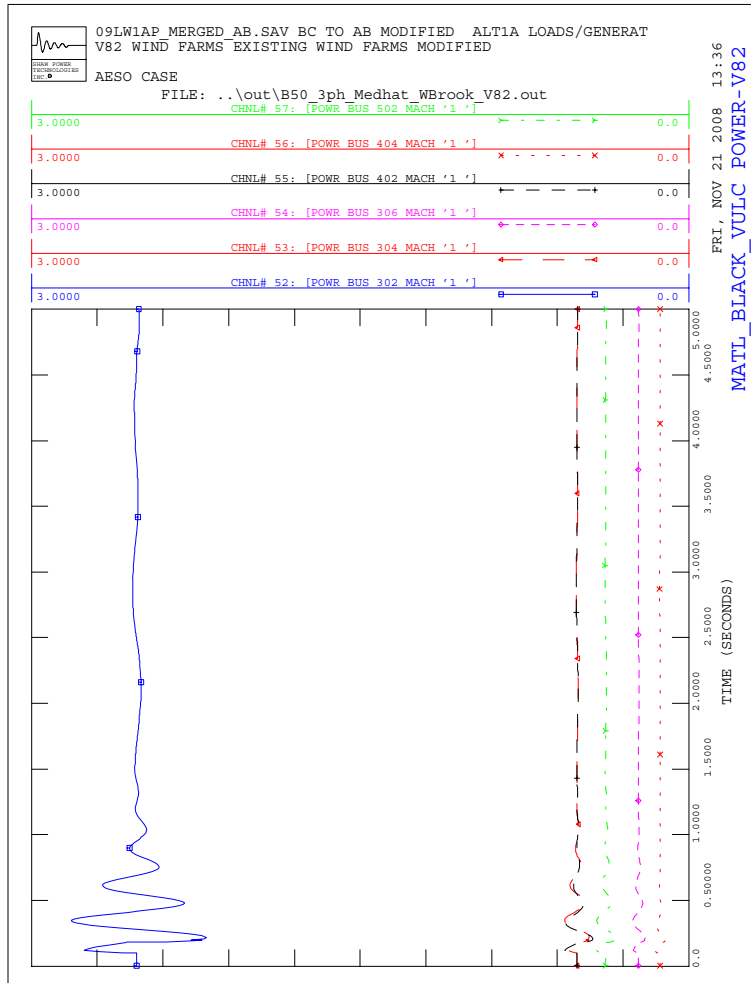
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

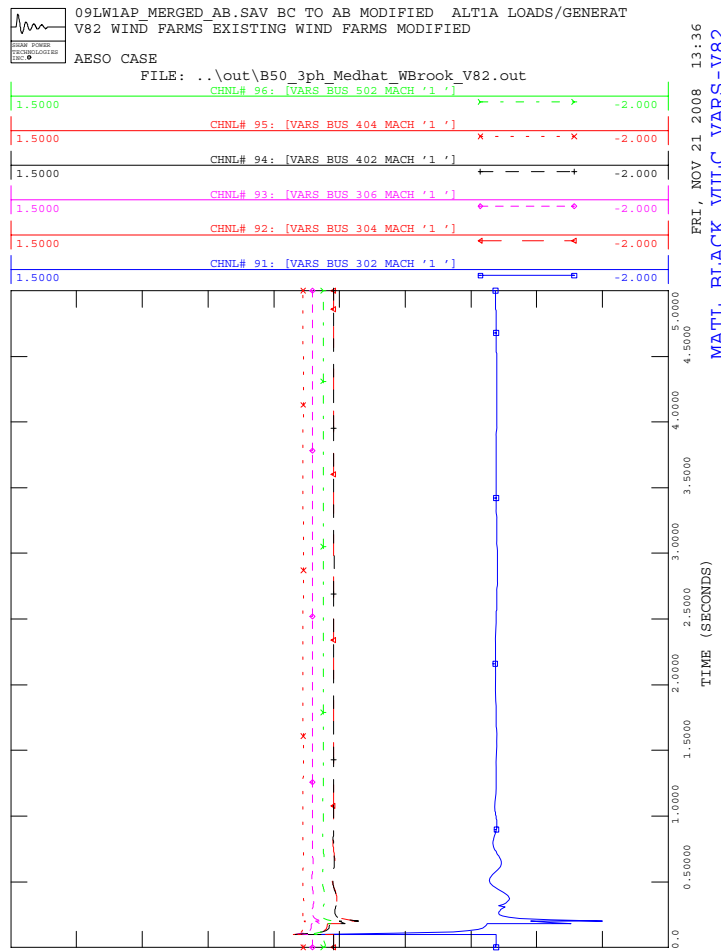
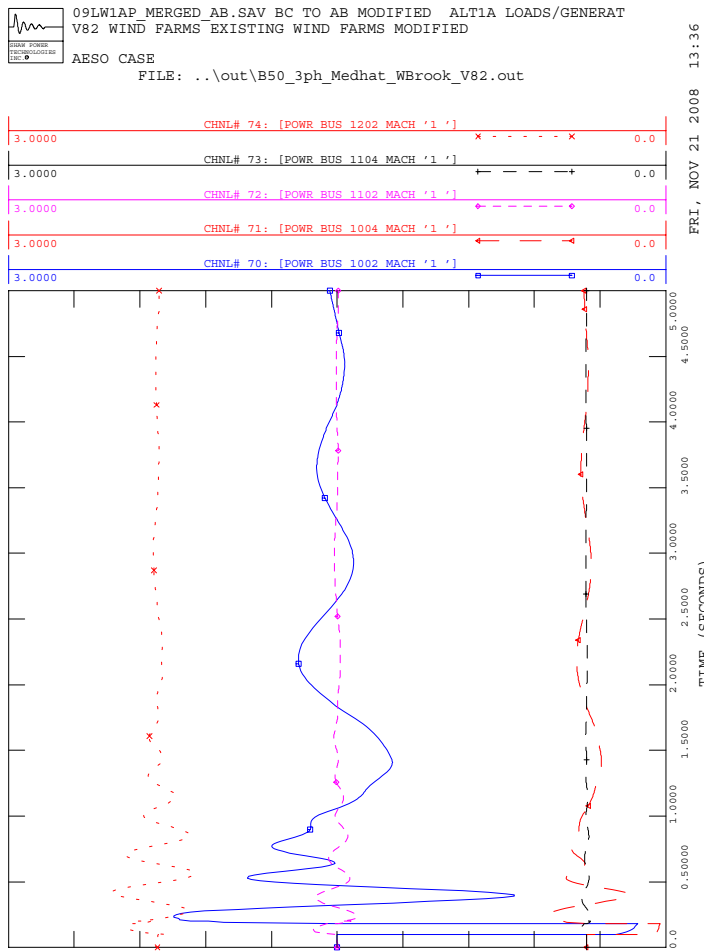
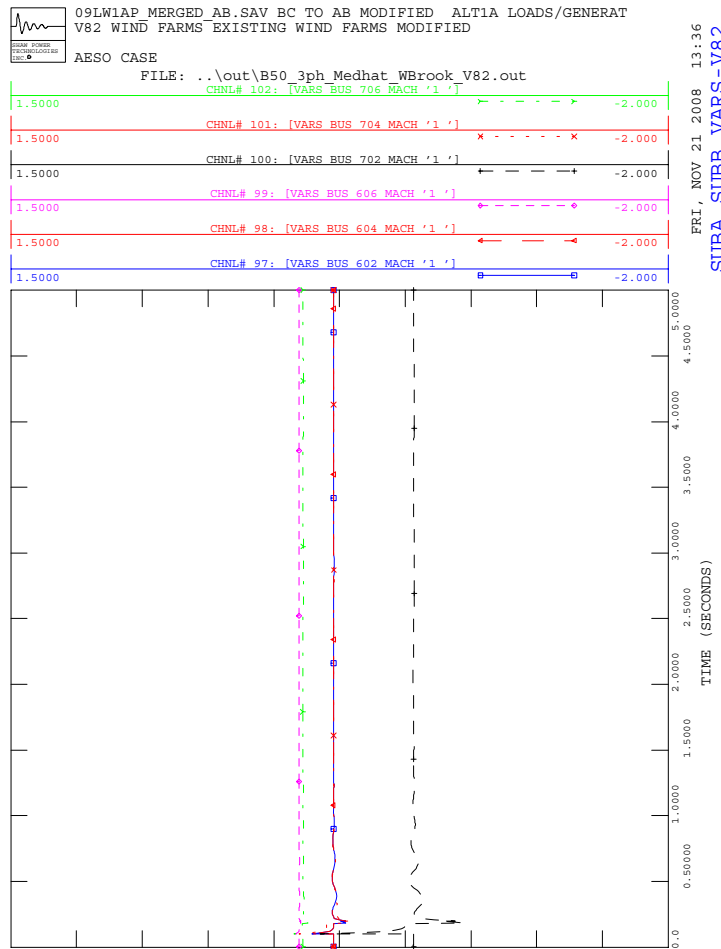
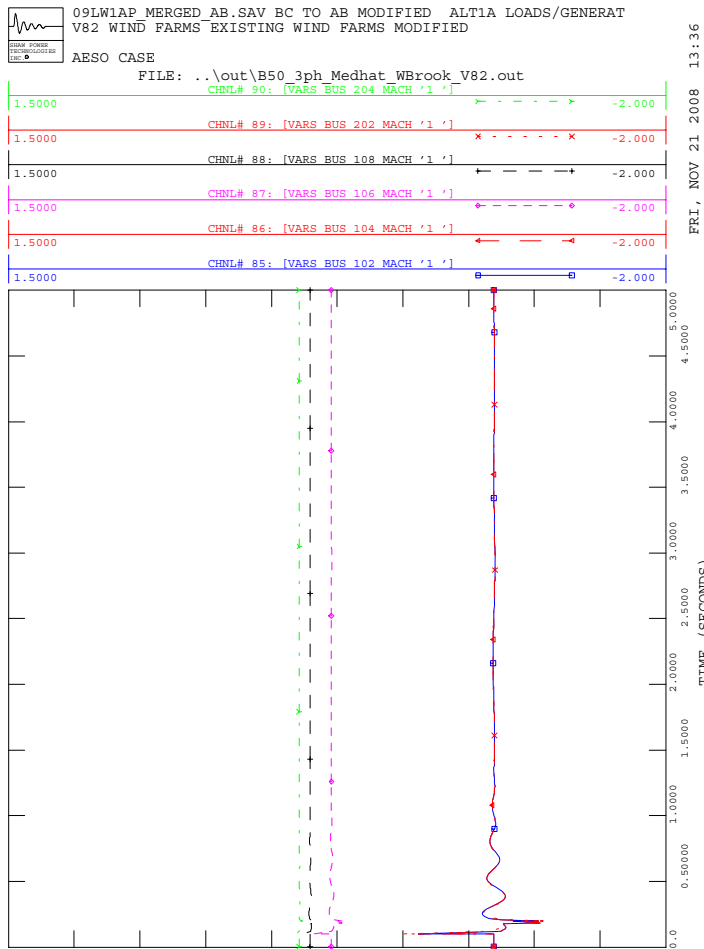
ABSO CASE

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FRI, NOV 21 2008 13:36
AB_BC_TIE_FLOWS-V82

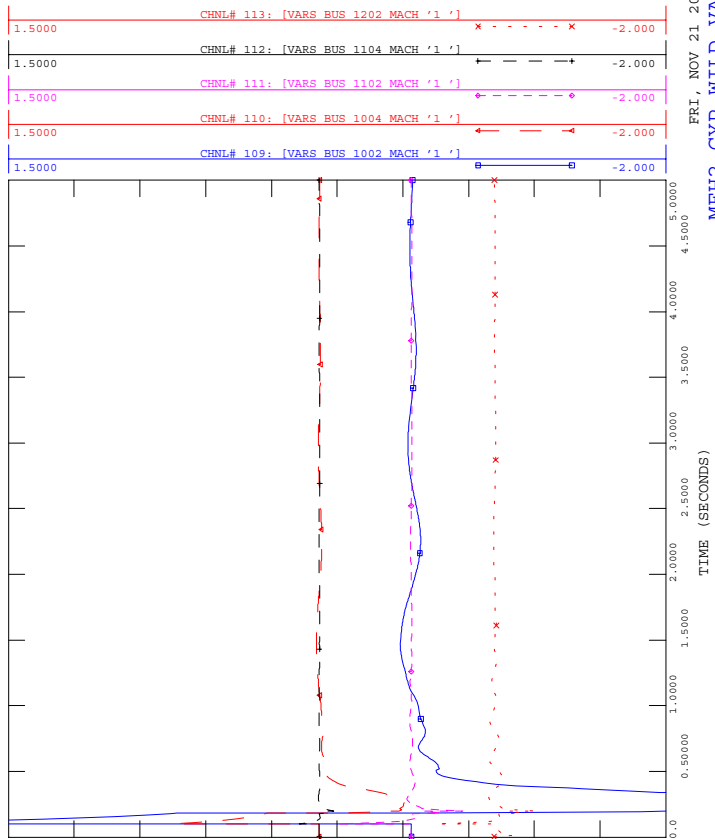






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

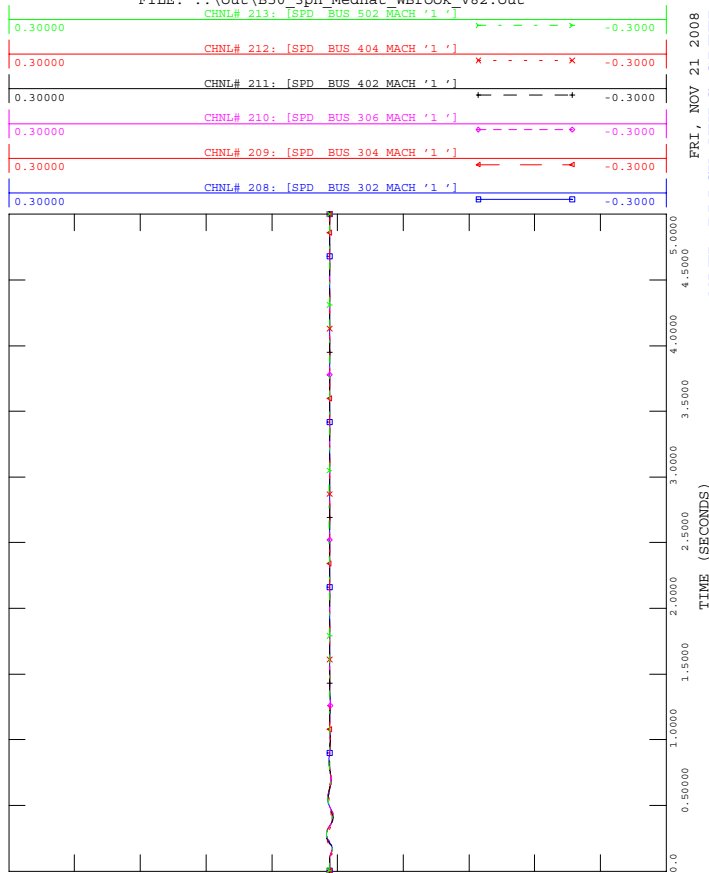
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FRI, NOV 21 2008 13:36

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

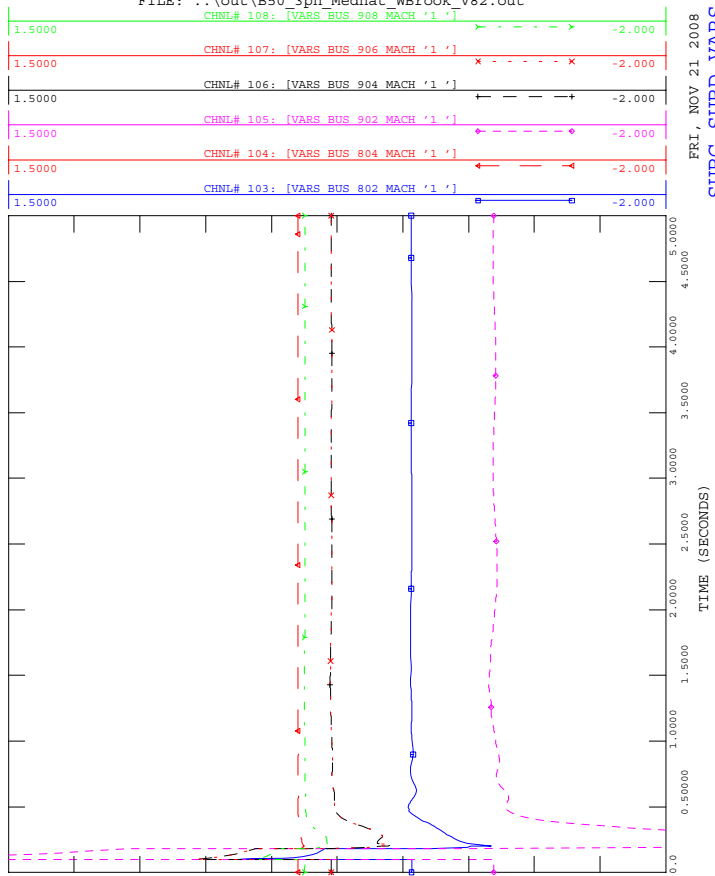
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FRI, NOV 21 2008 13:36

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

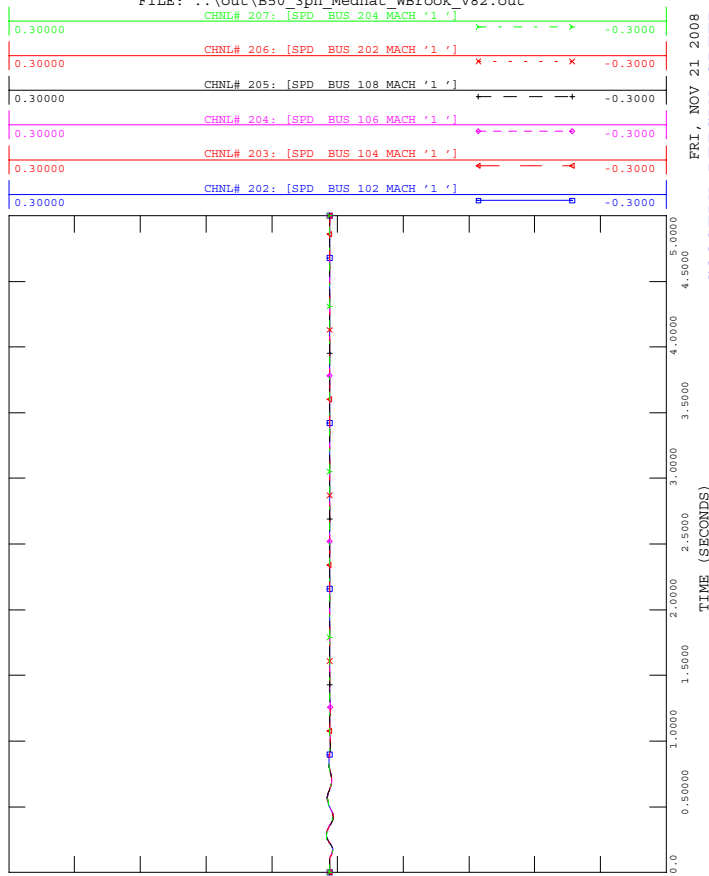
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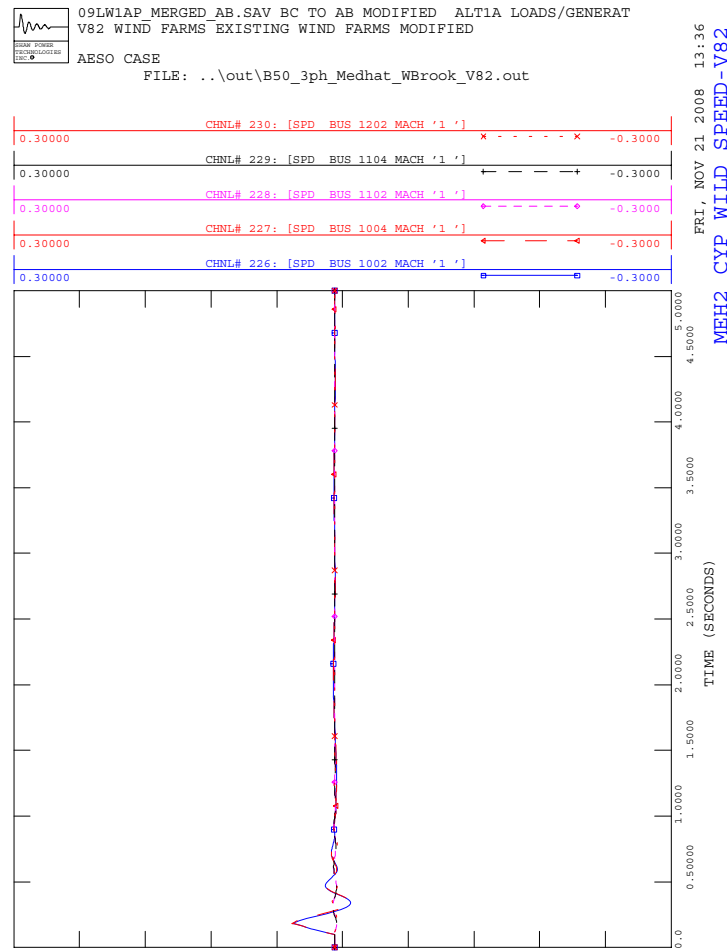
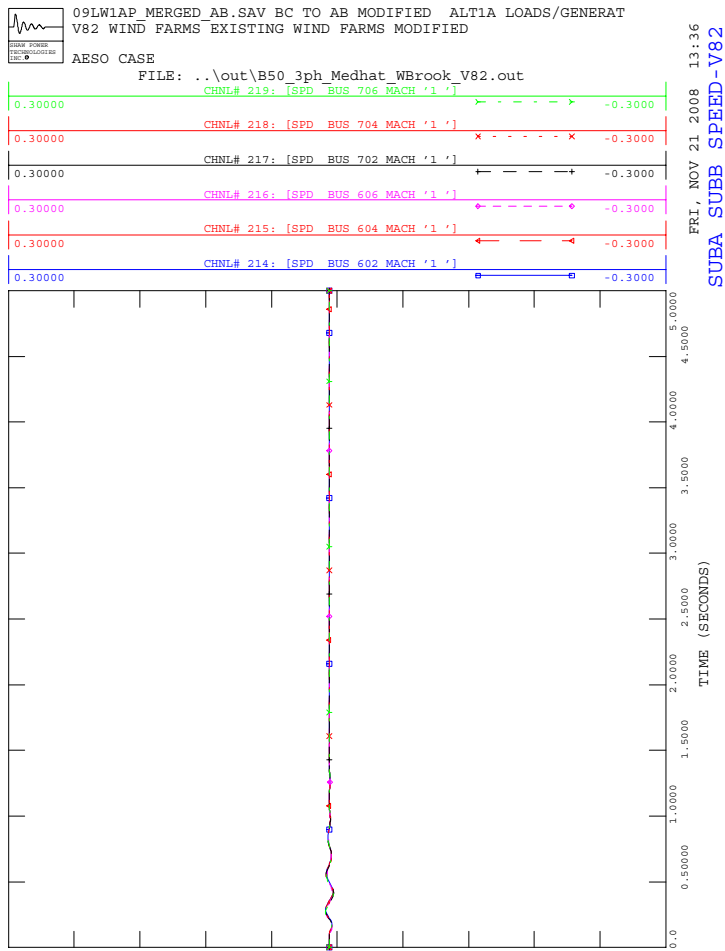
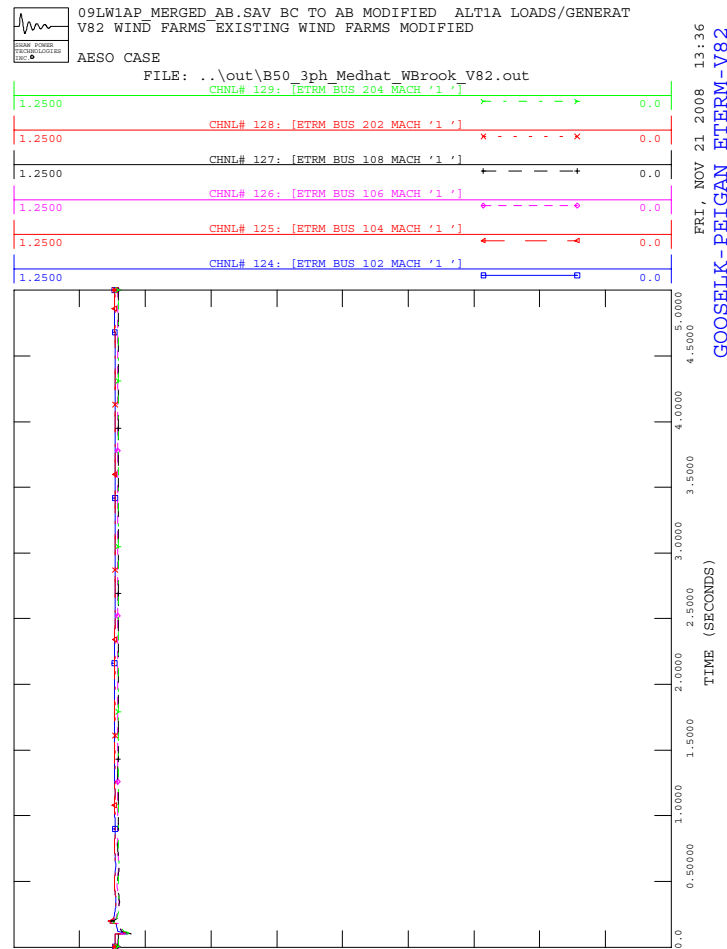
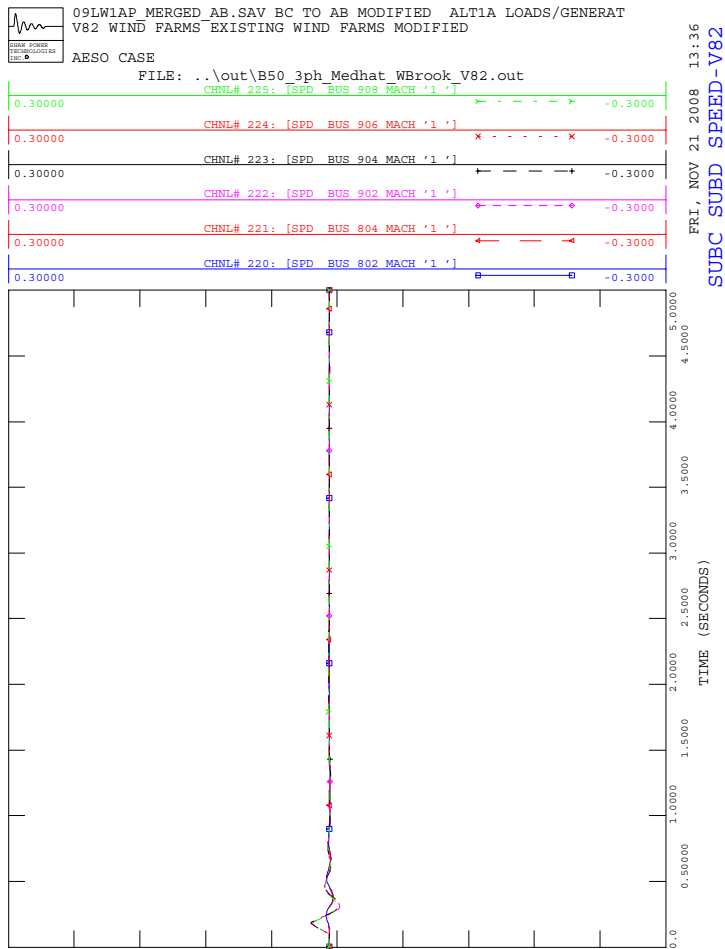
FRI, NOV 21 2008 13:36

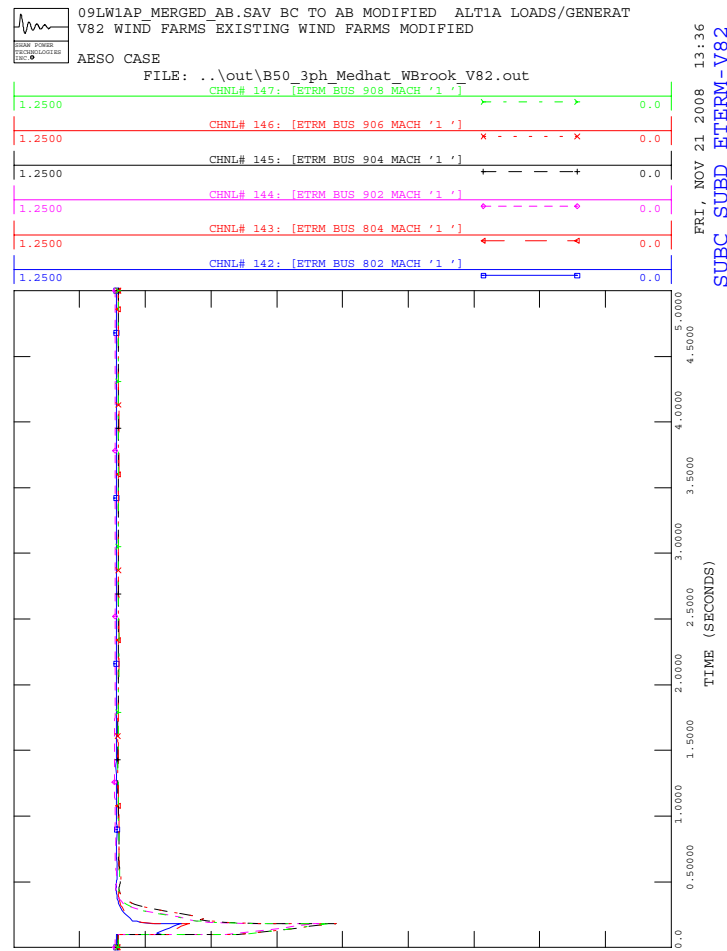
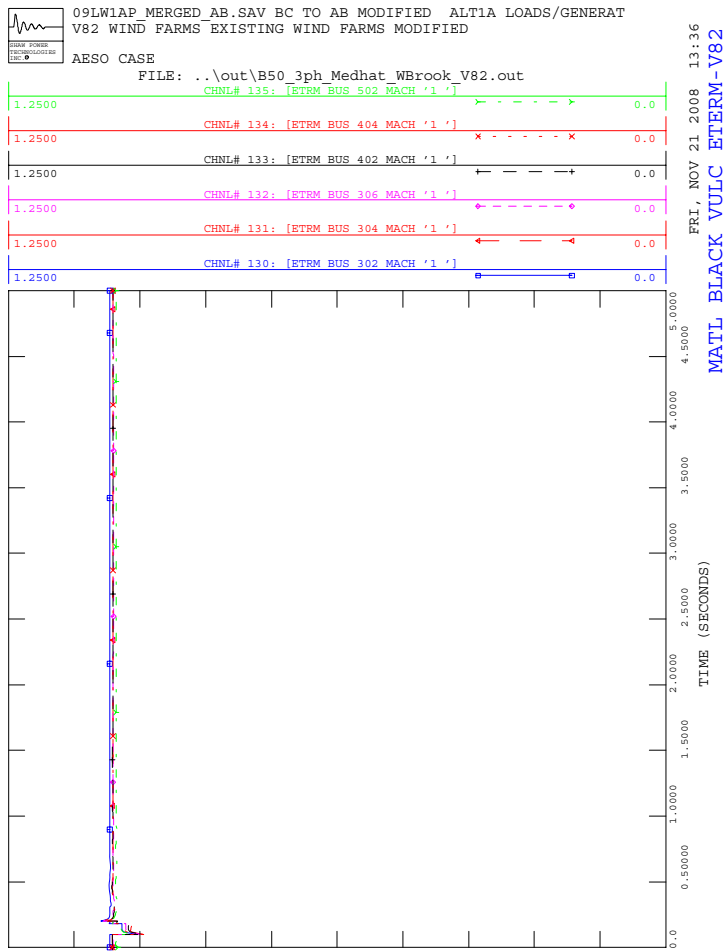
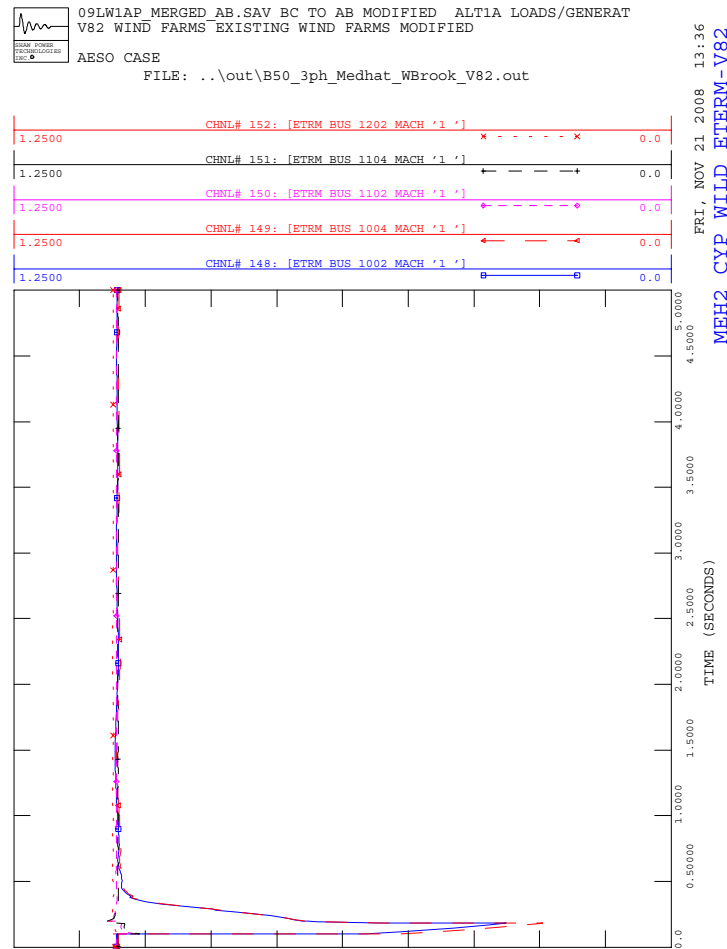
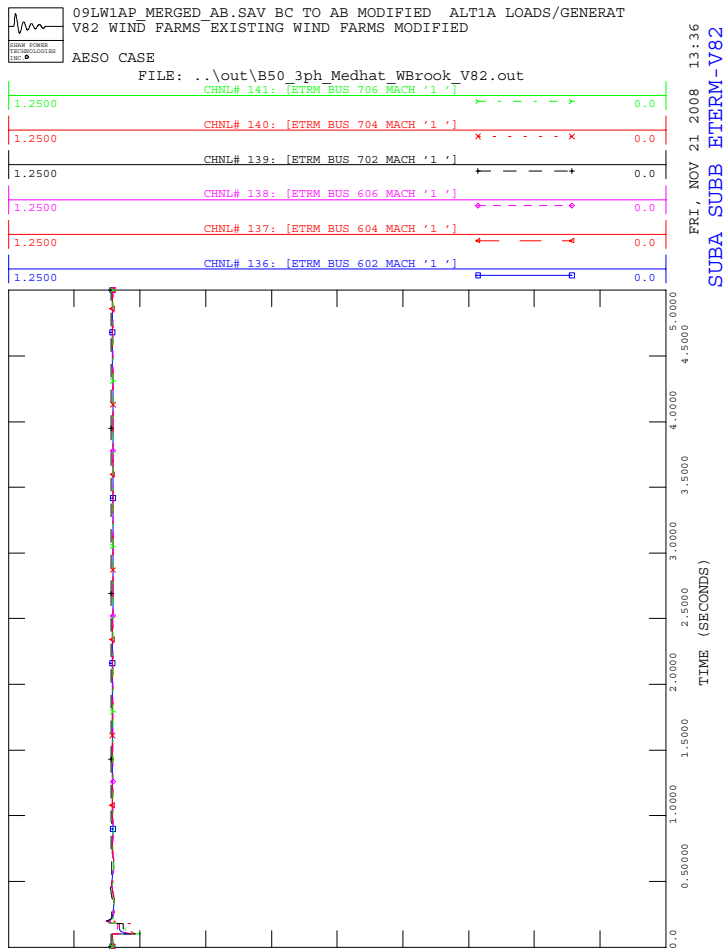
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

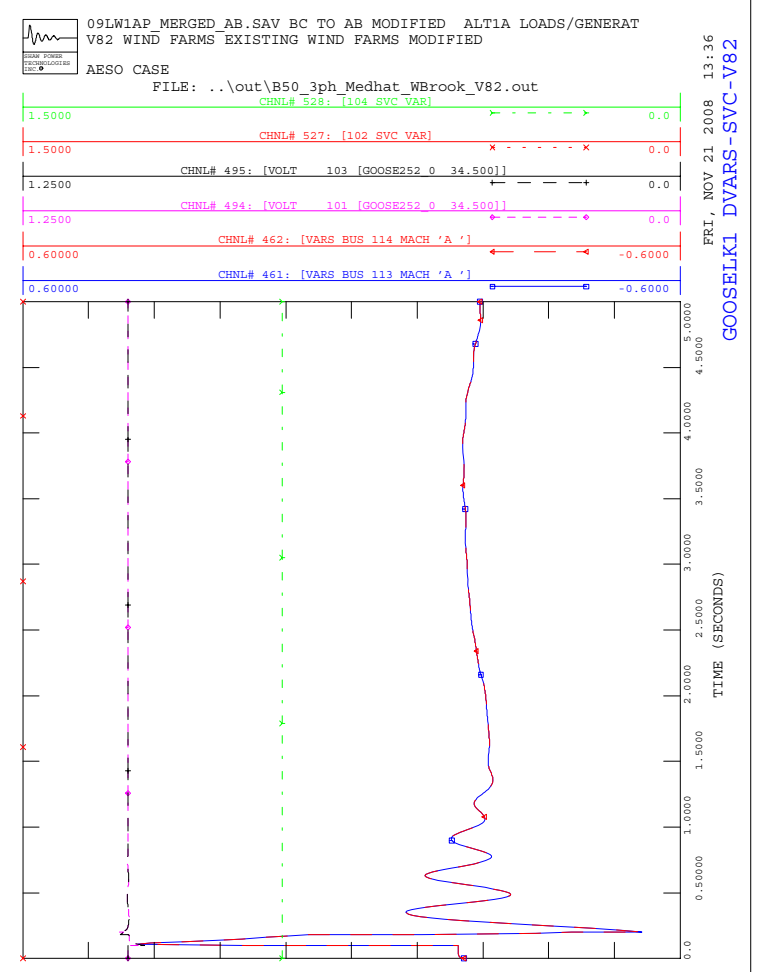
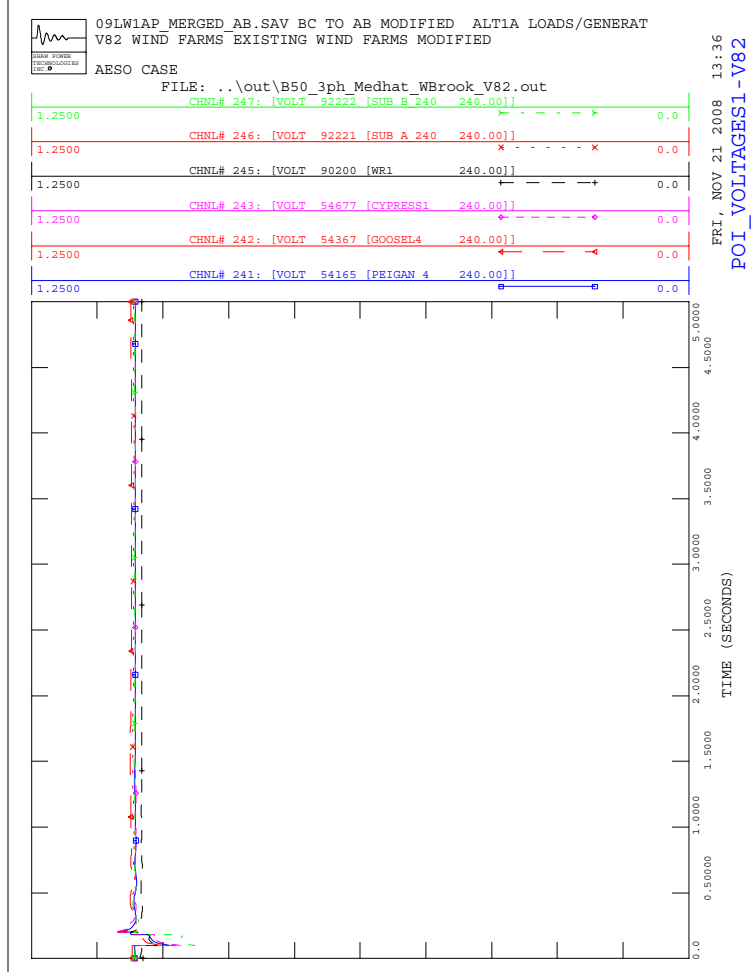
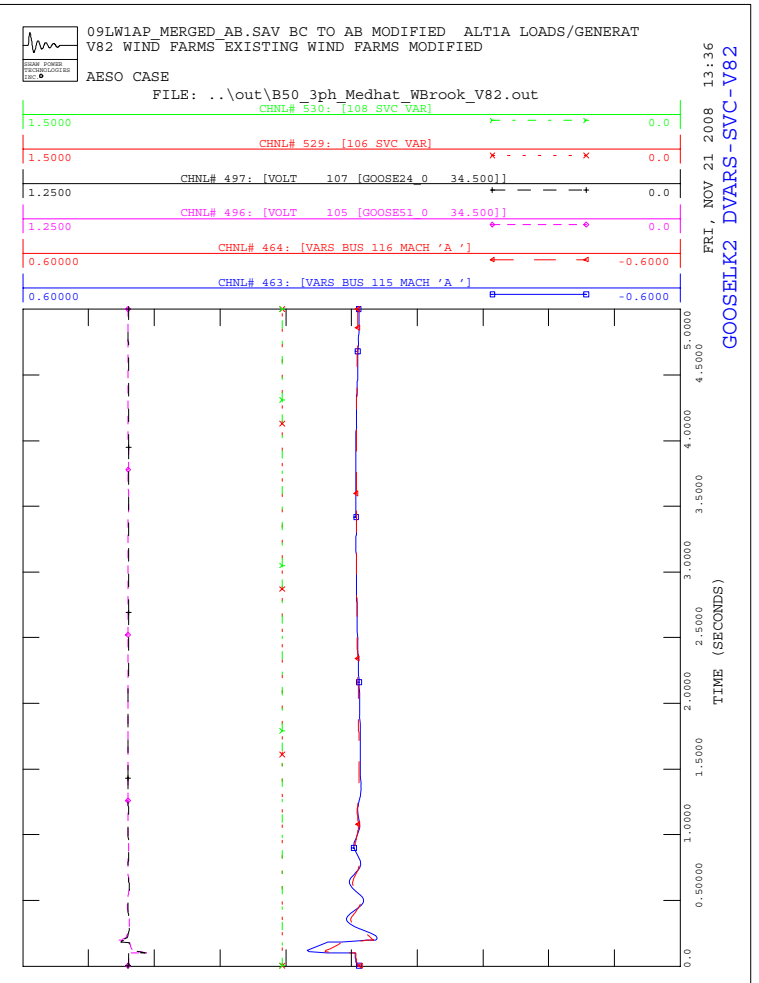
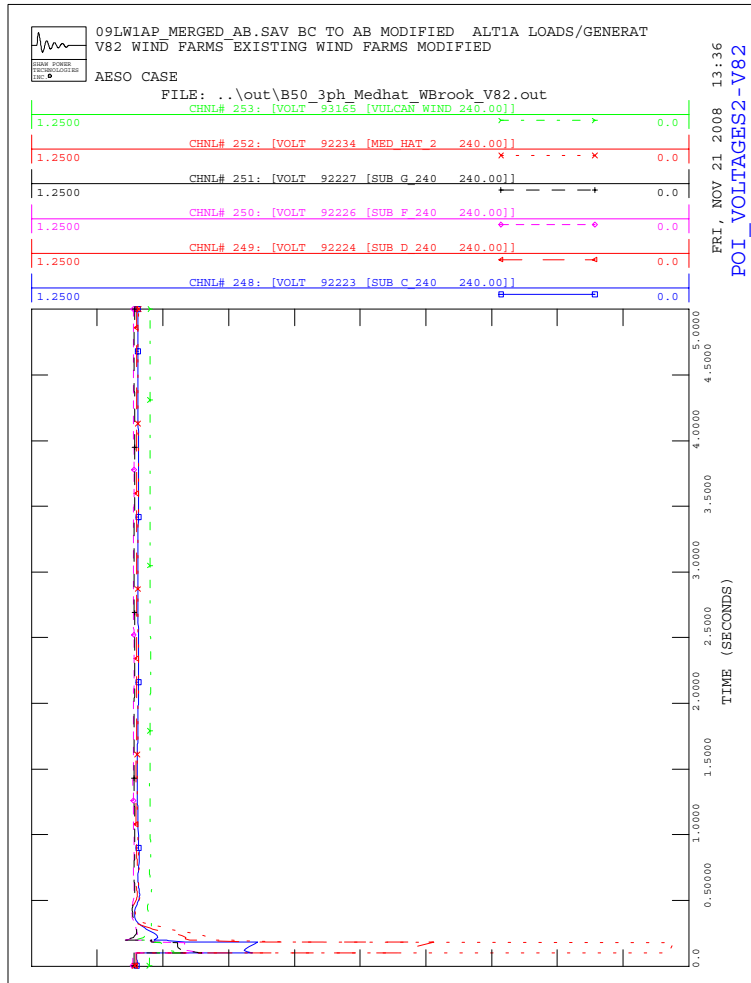
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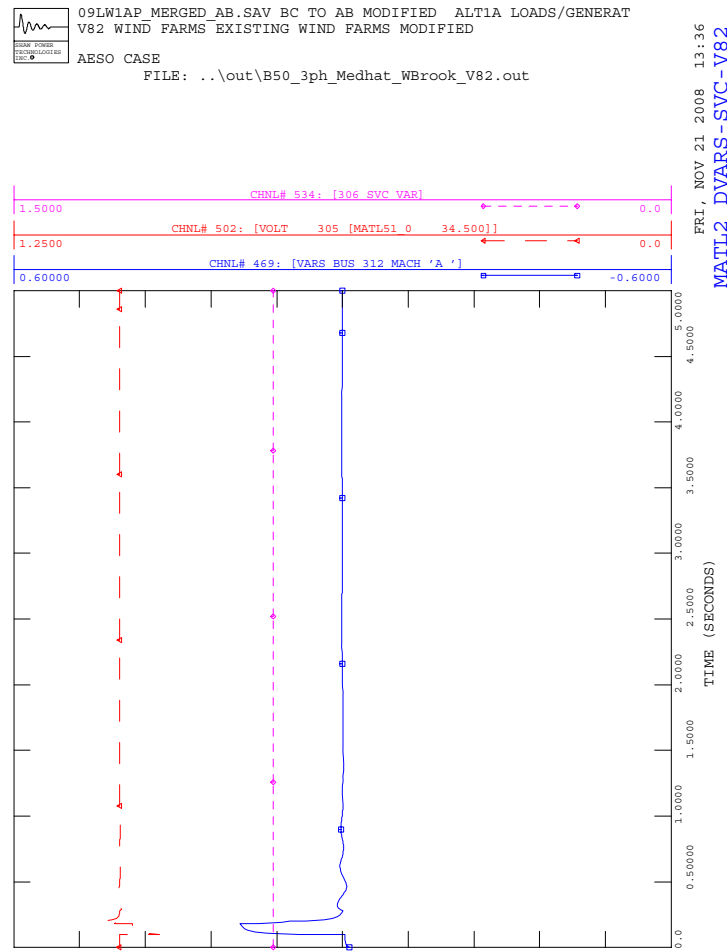
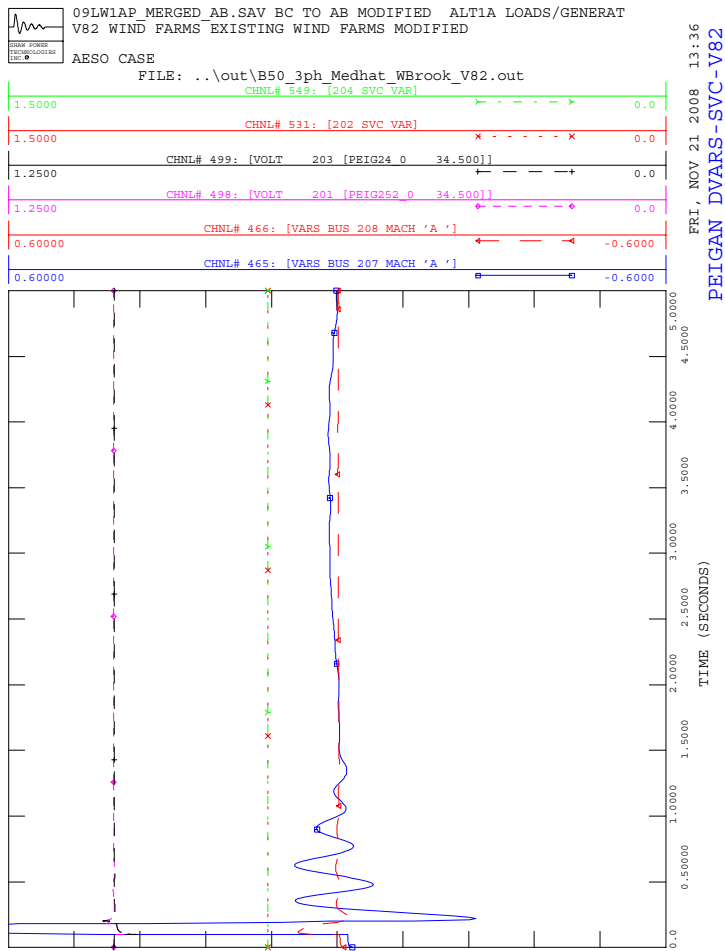
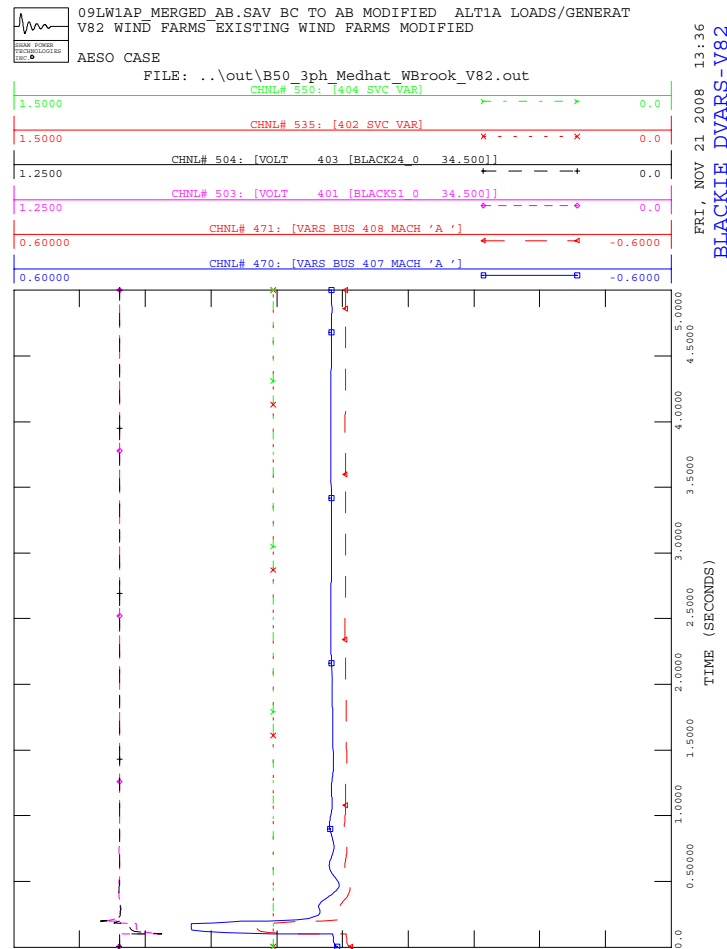
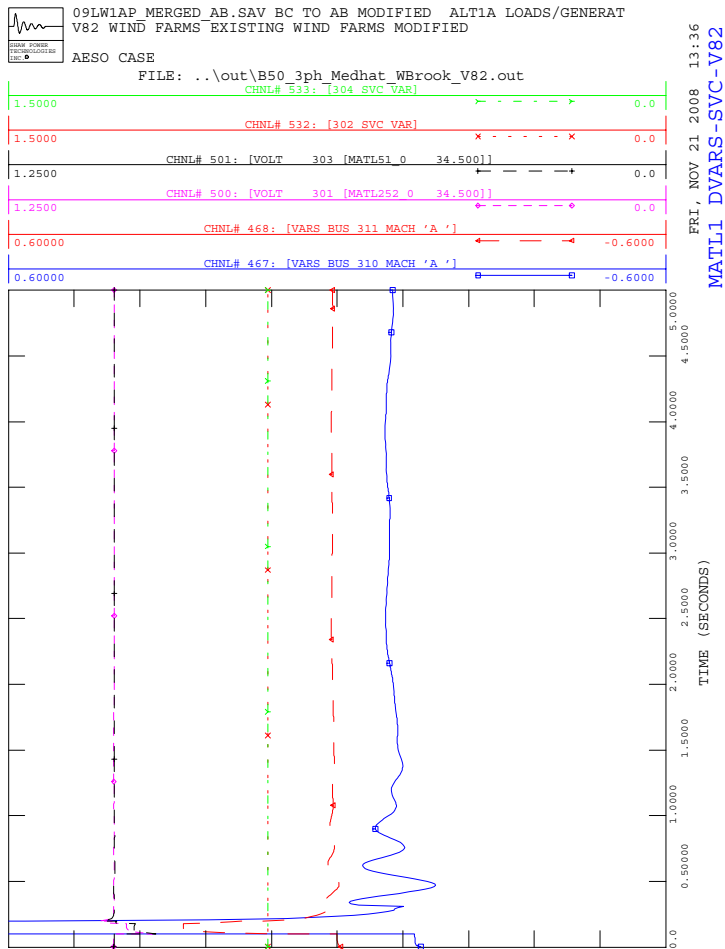


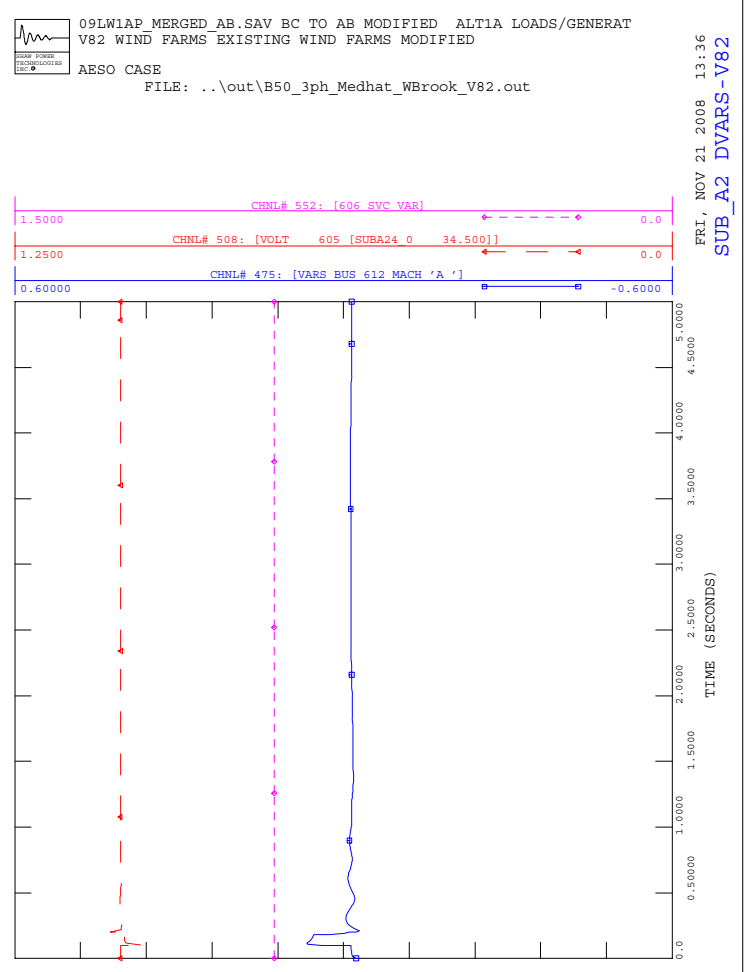
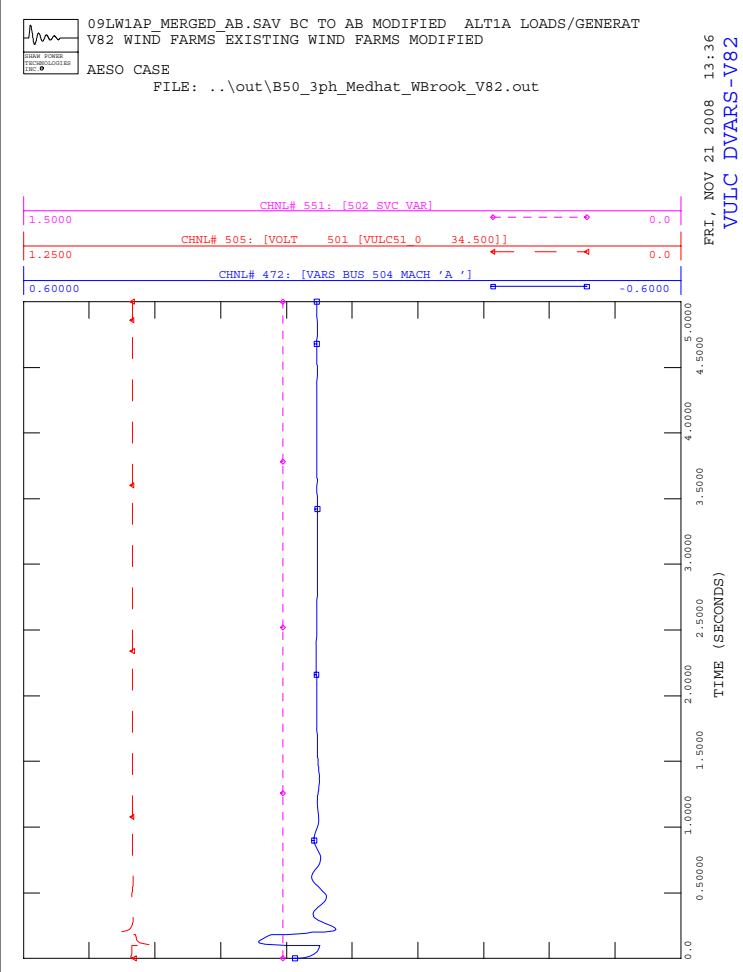
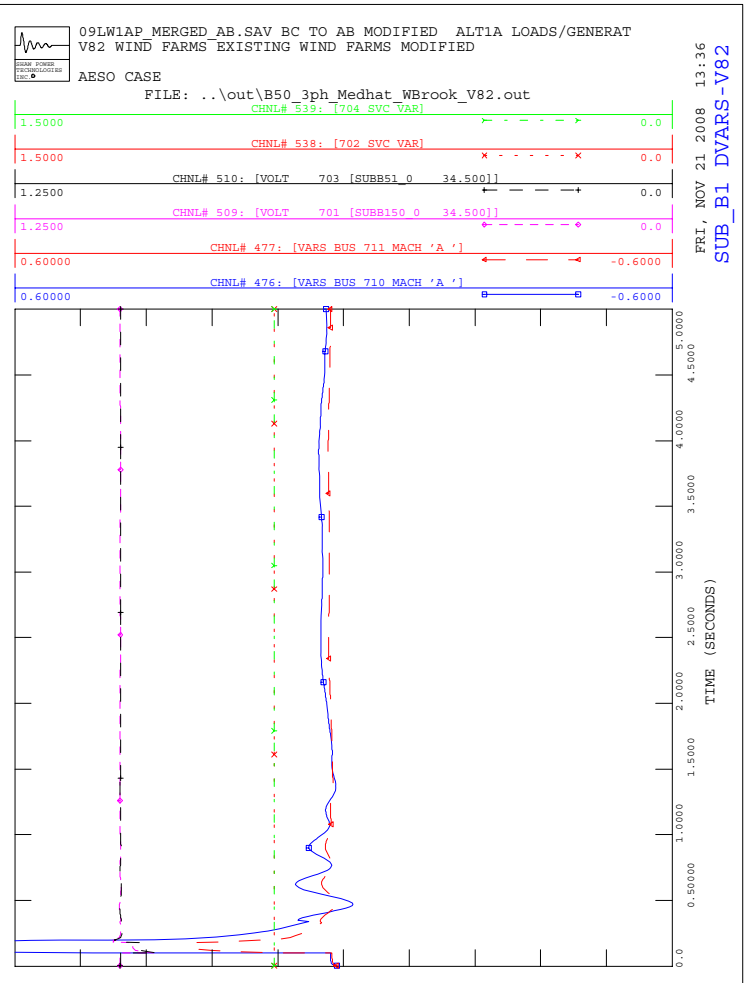
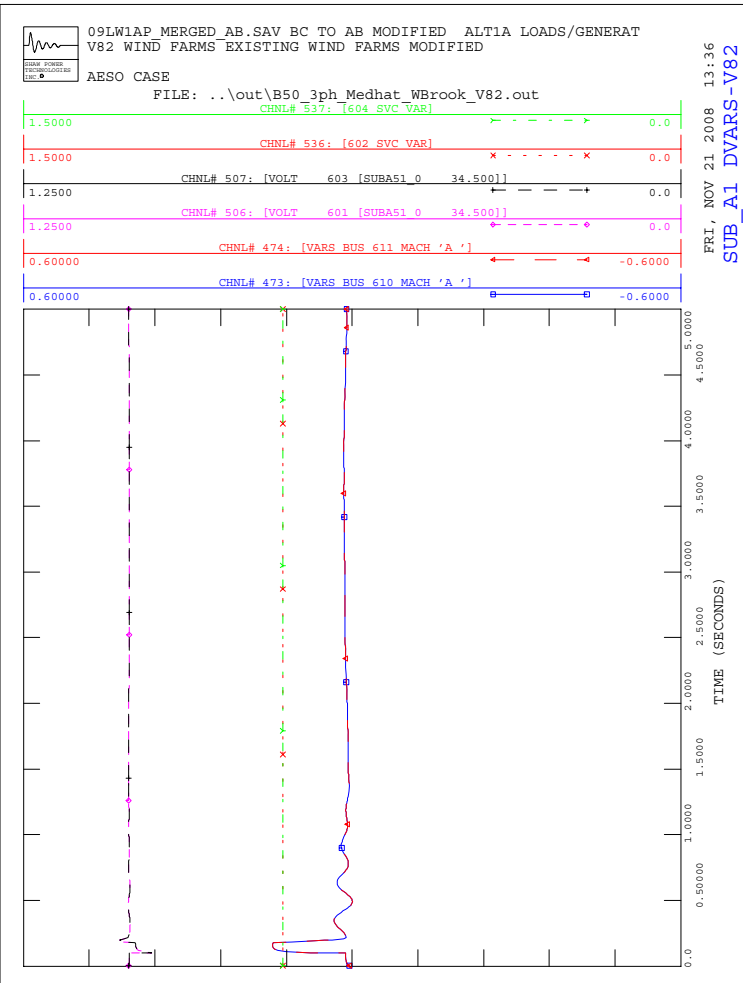
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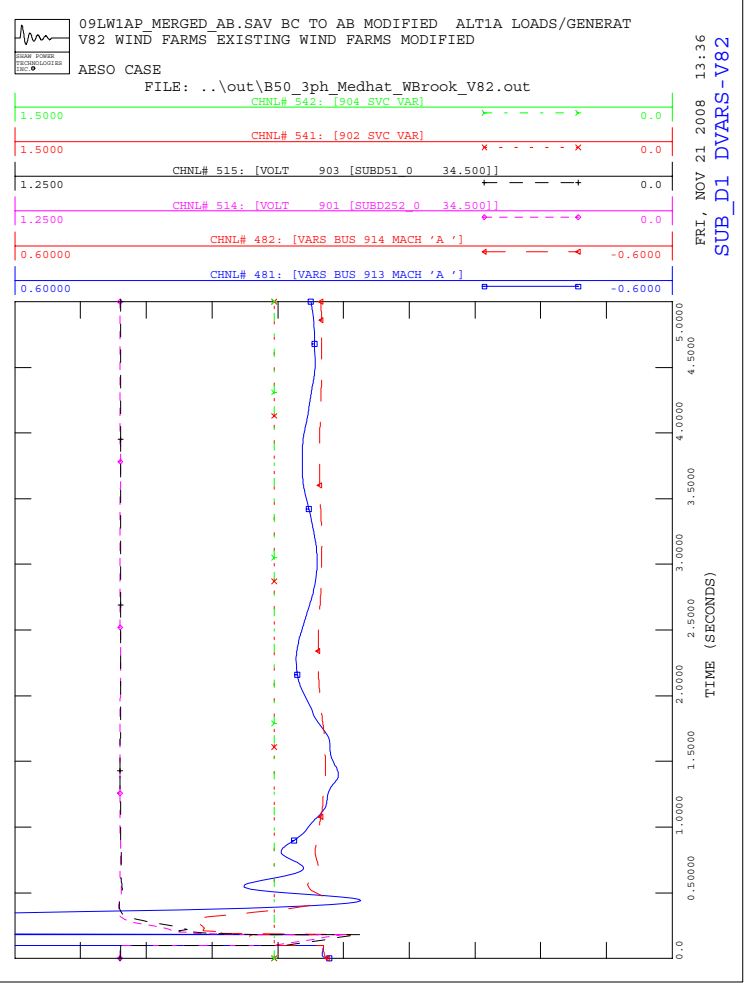
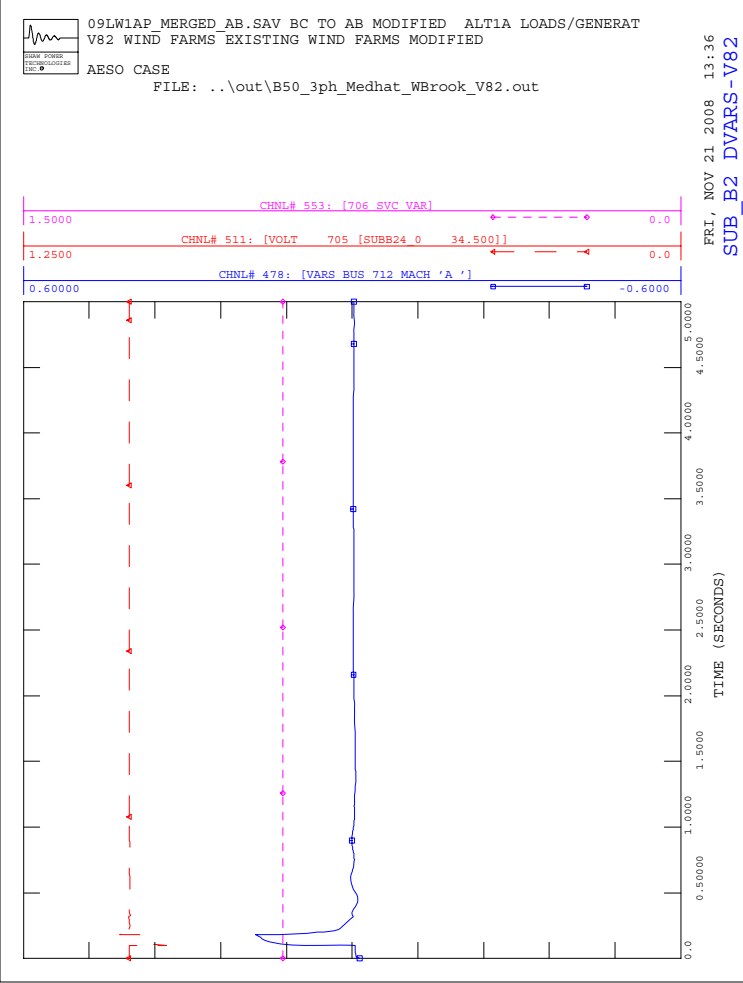
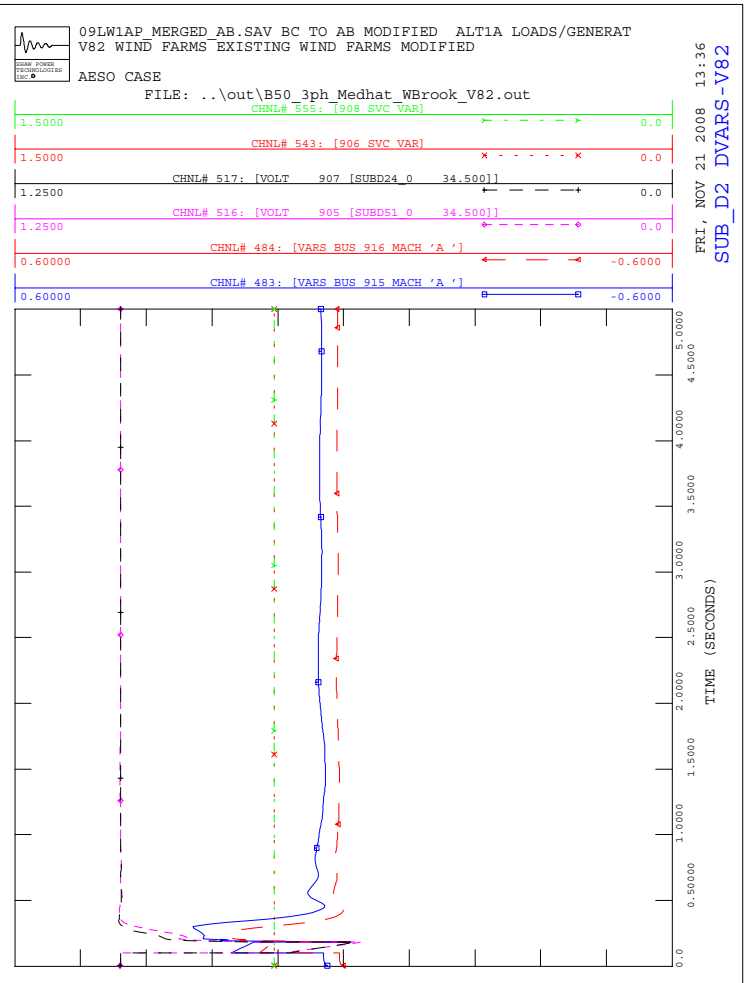
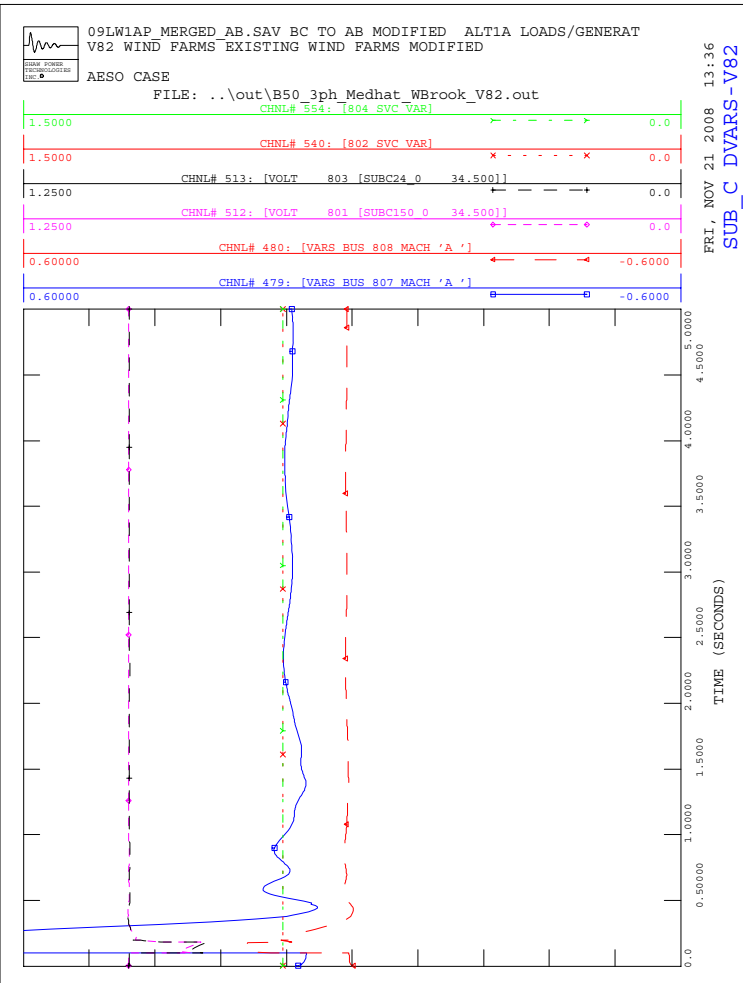


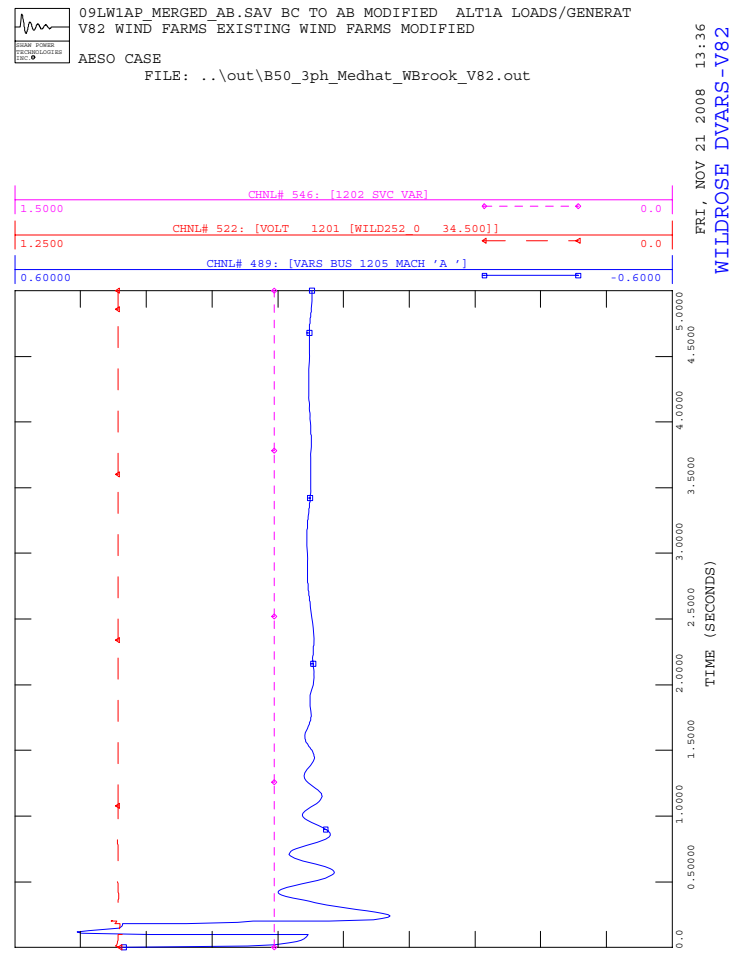
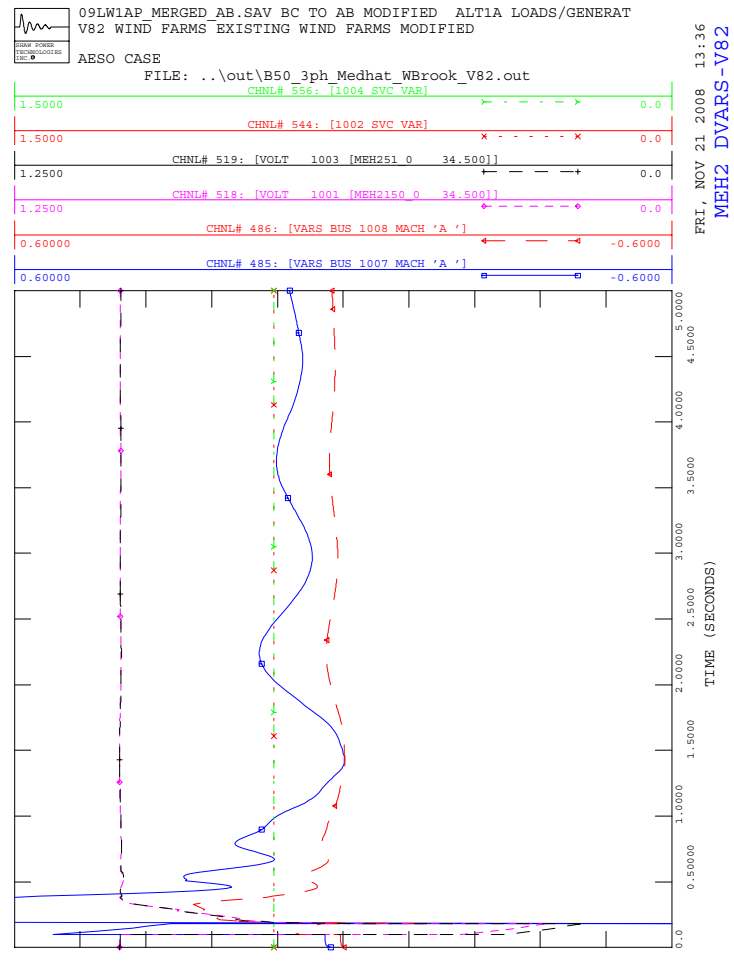
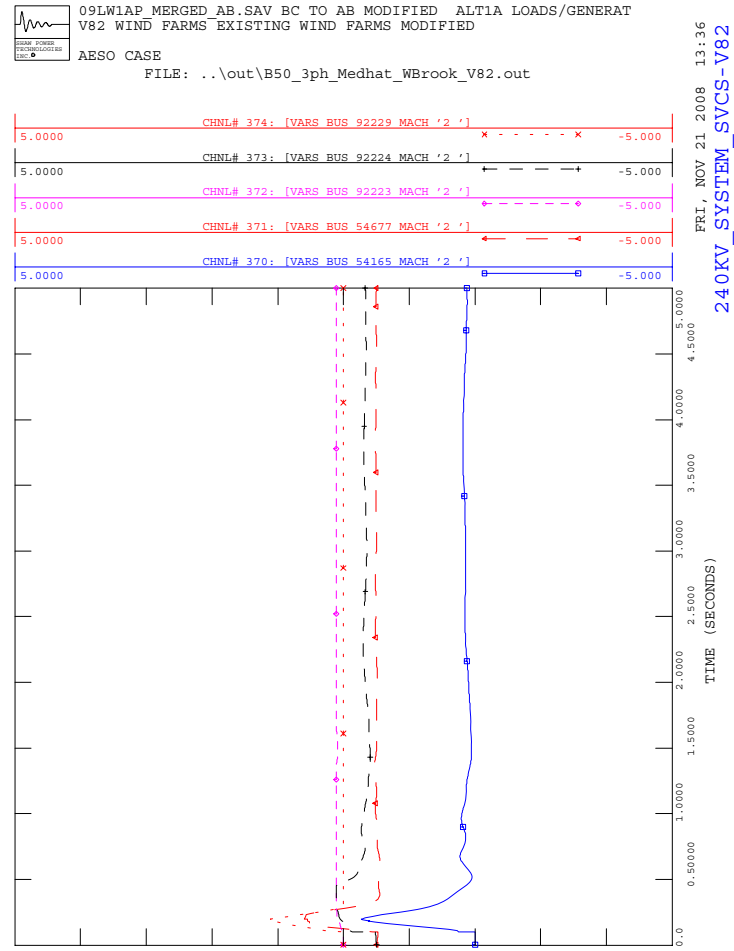
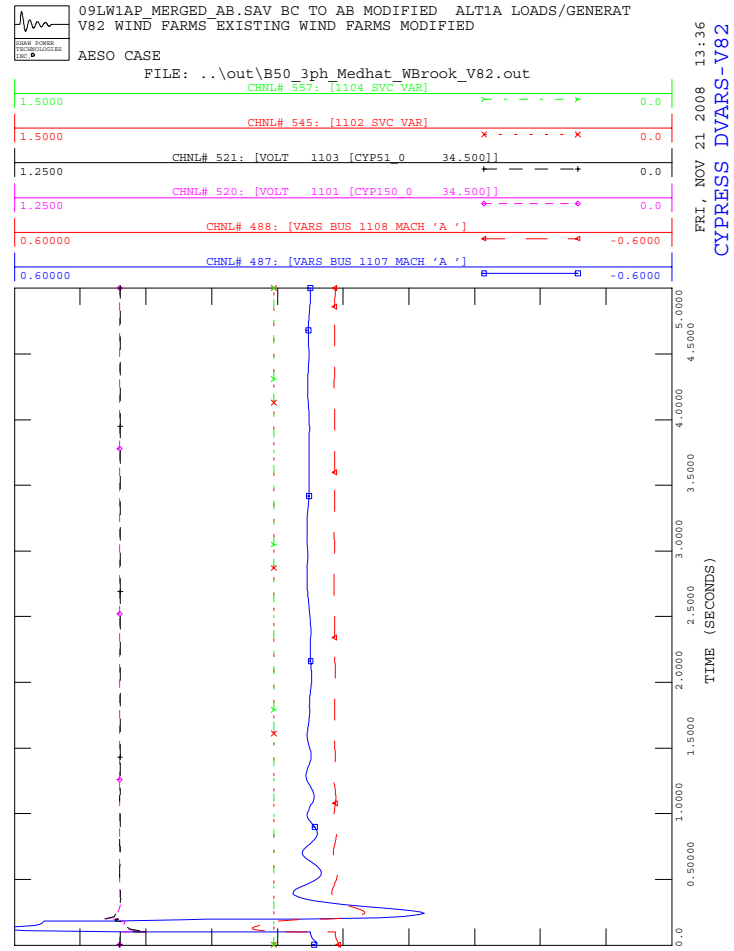








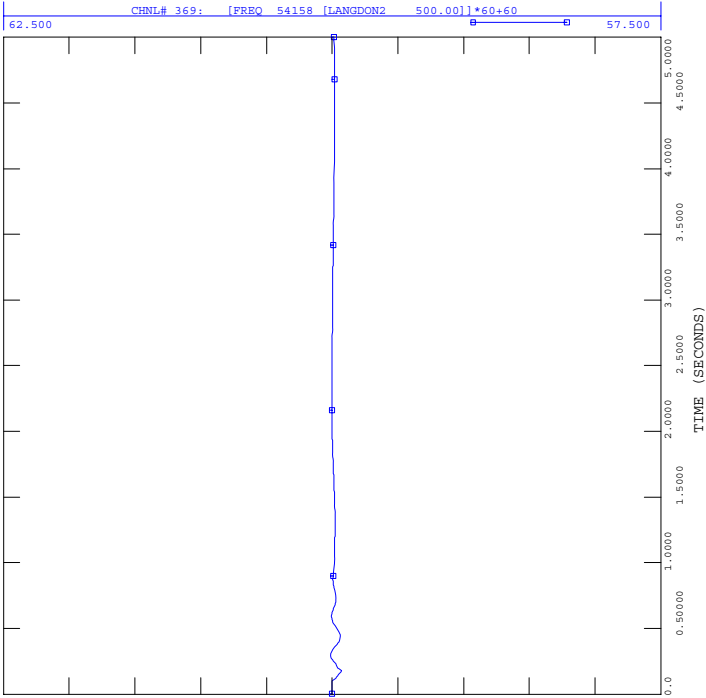






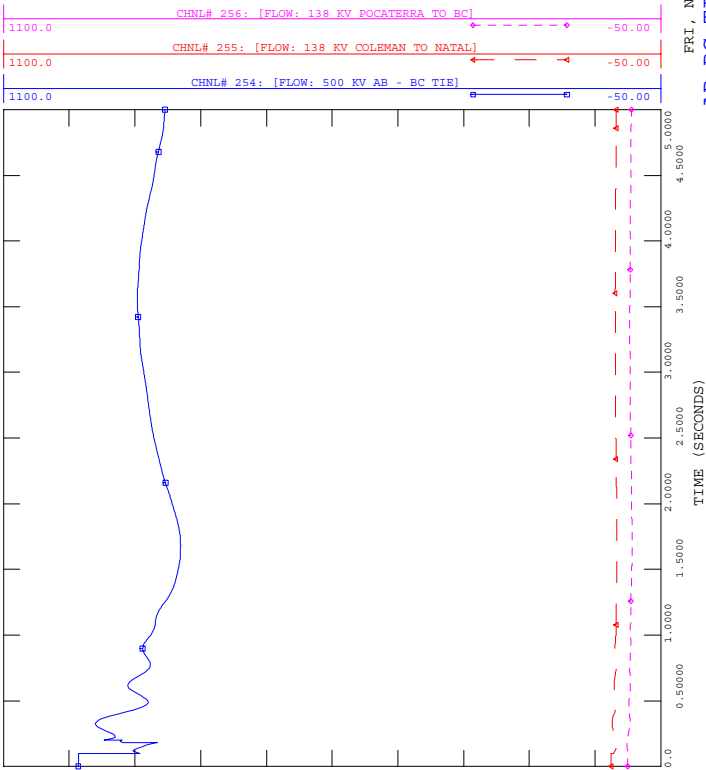
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B50_3ph_Medhat_WBrook_V82.out

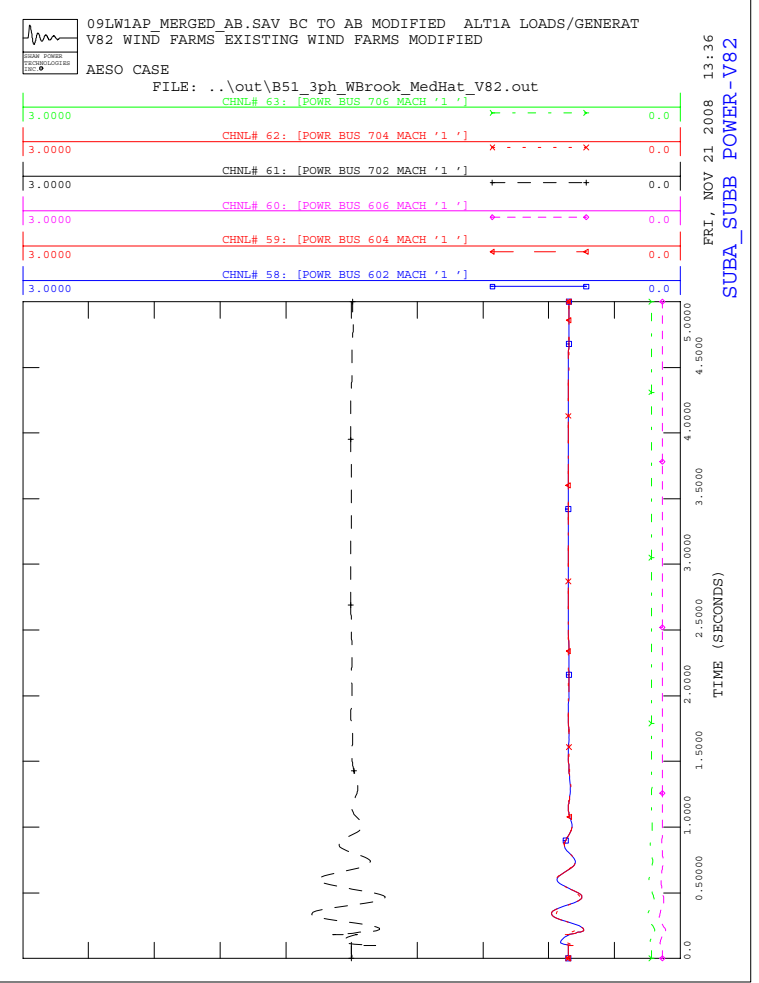
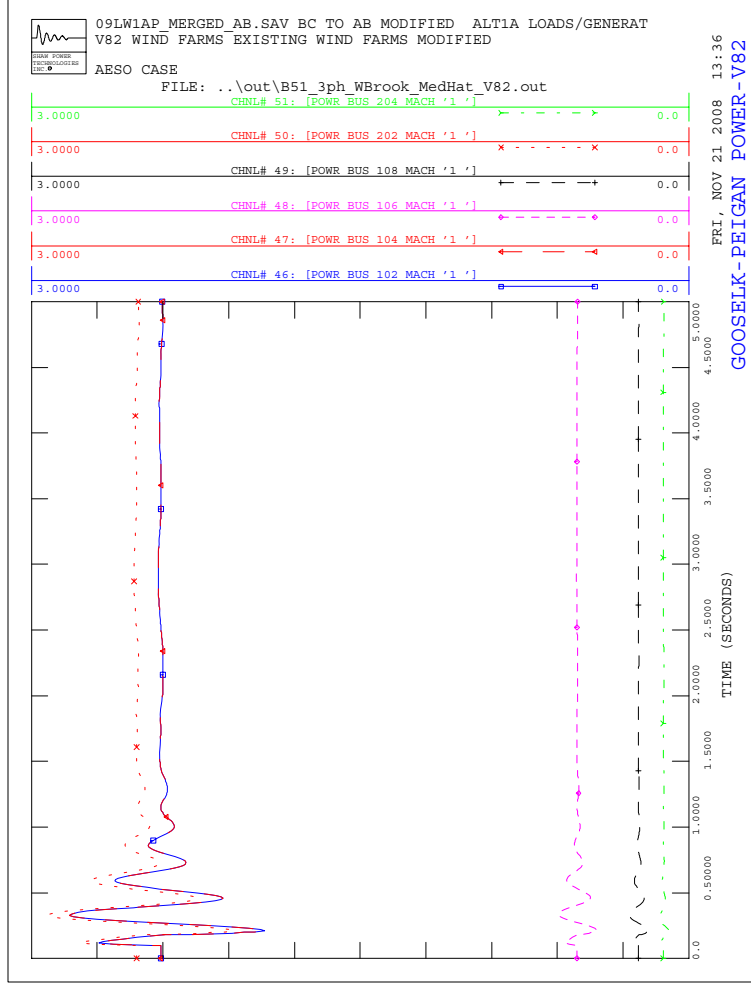
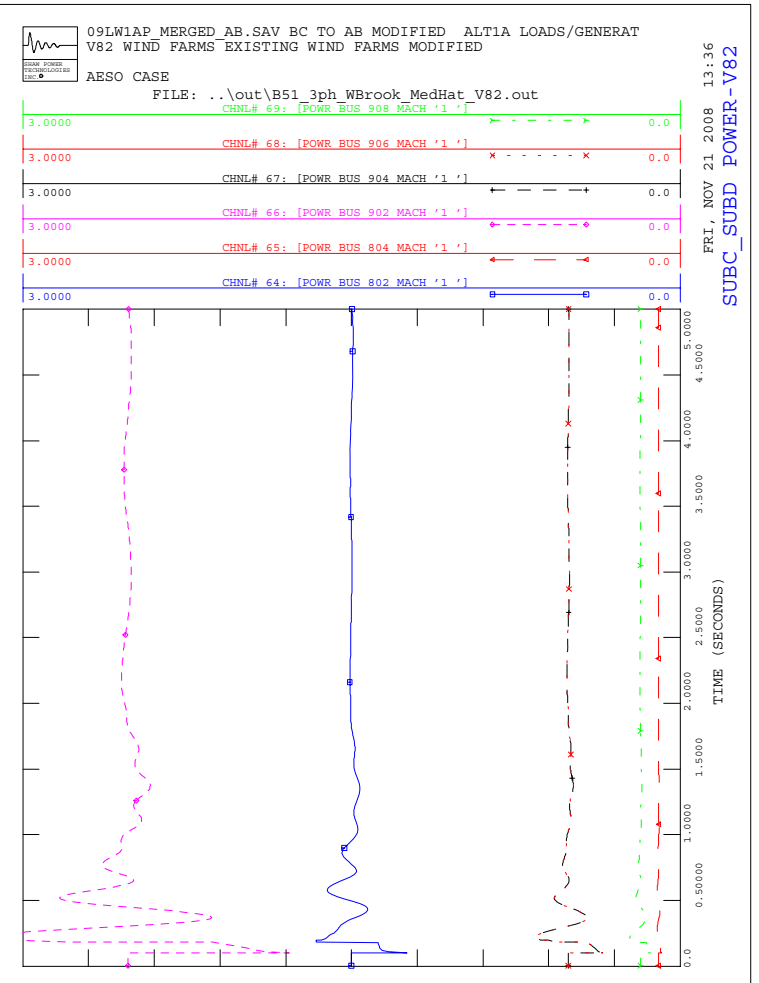
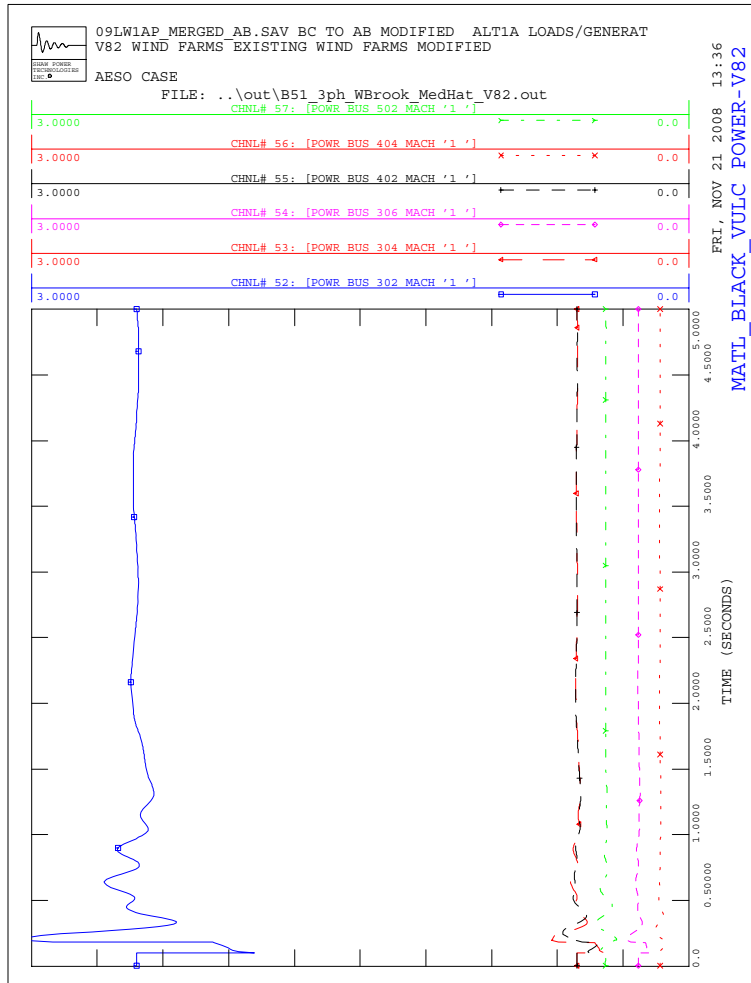
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LANGDON_FRQ-V82

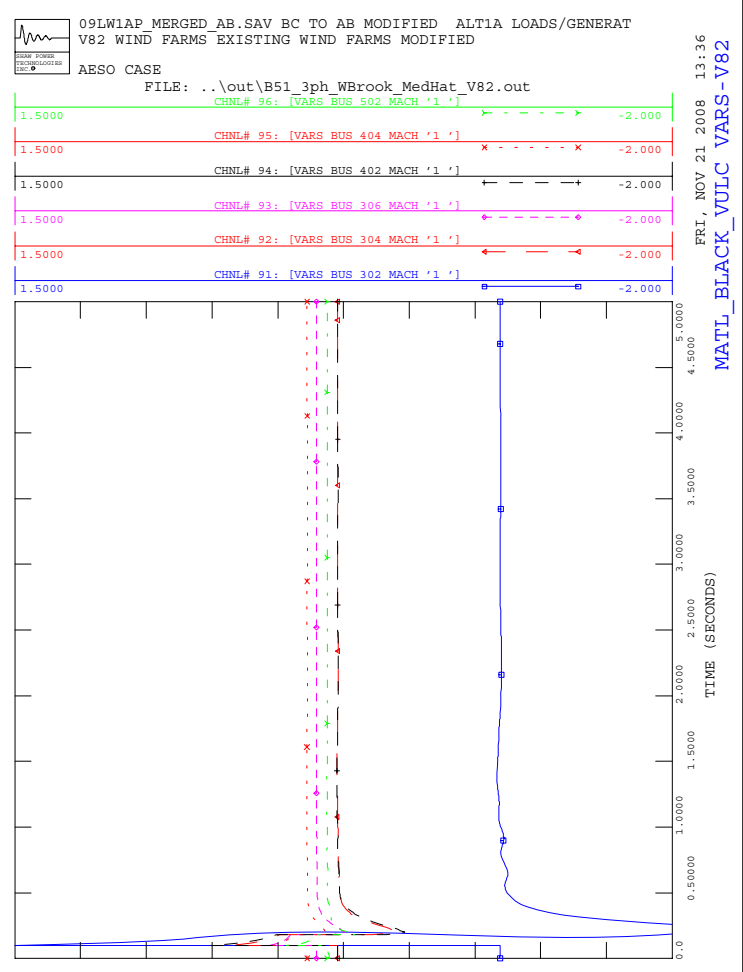
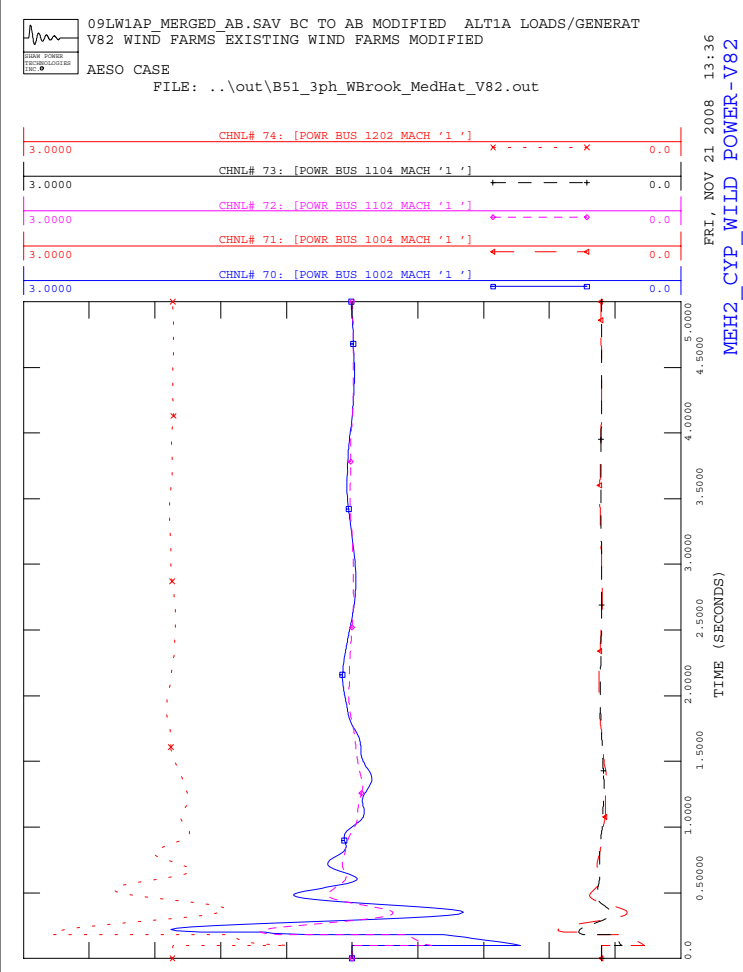
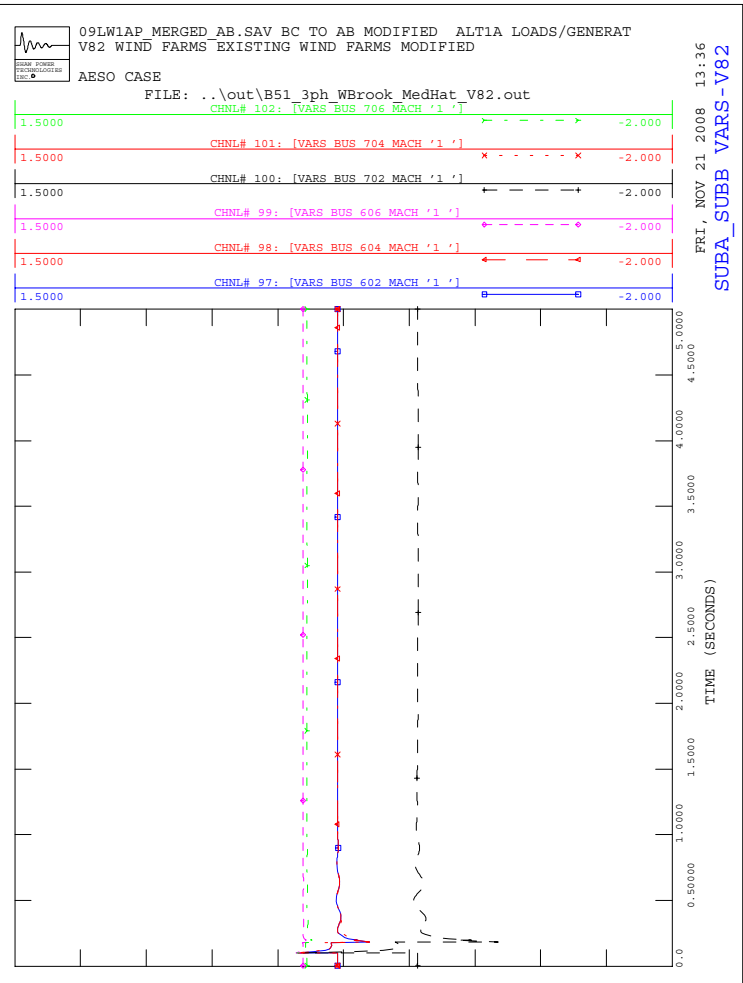
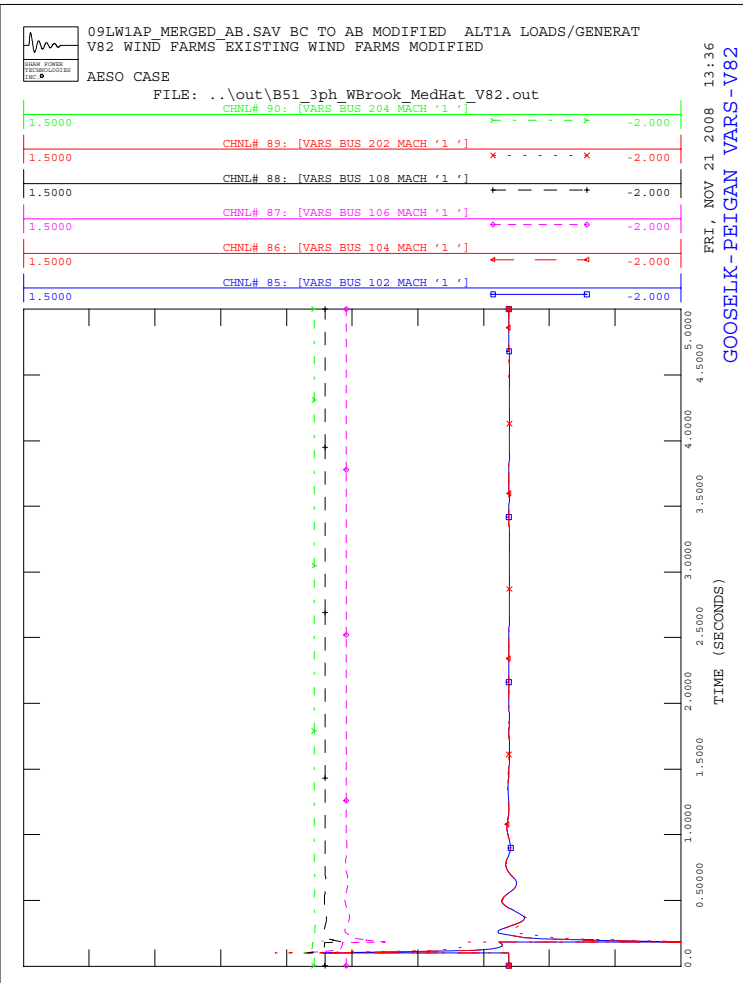


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ABSO CASE
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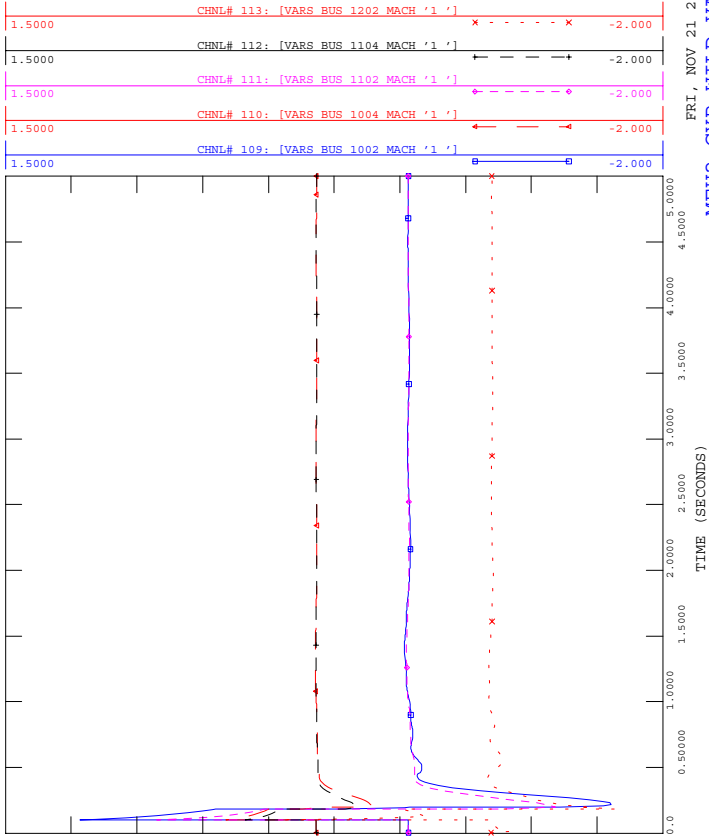
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AB_BC_TIE_FLOWS-V82





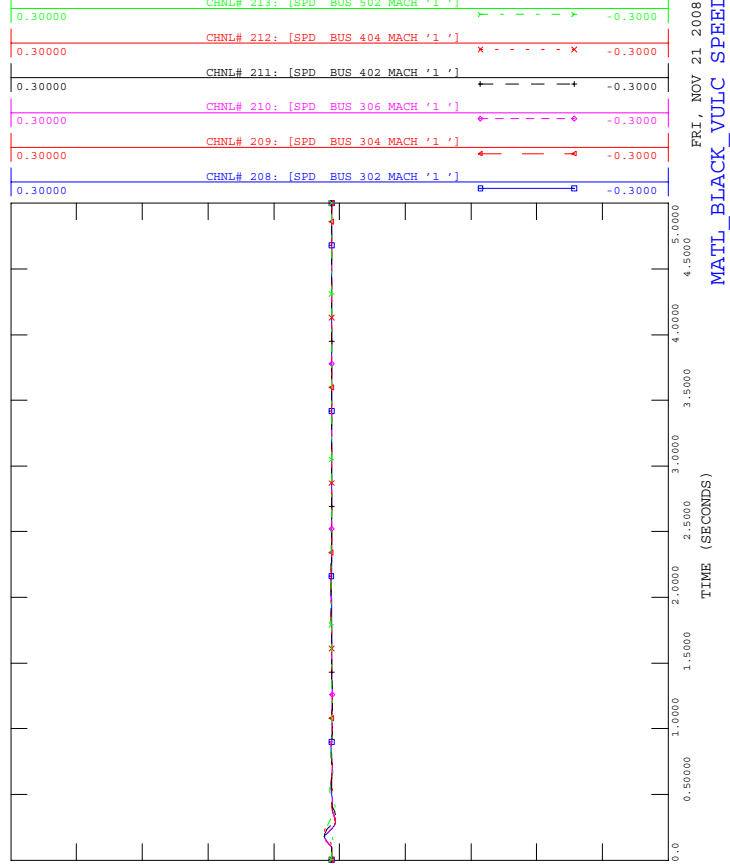


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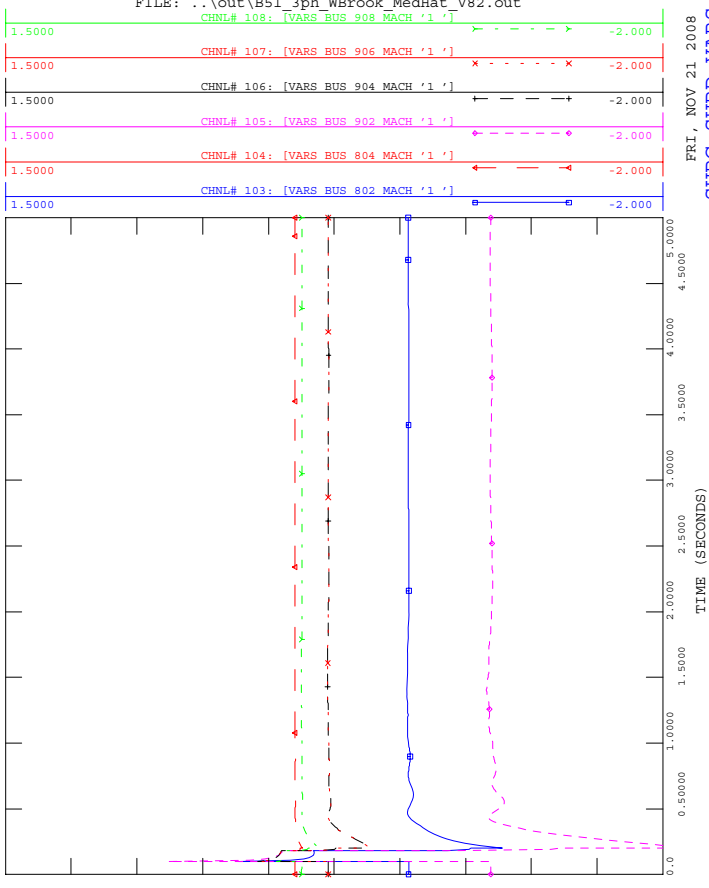
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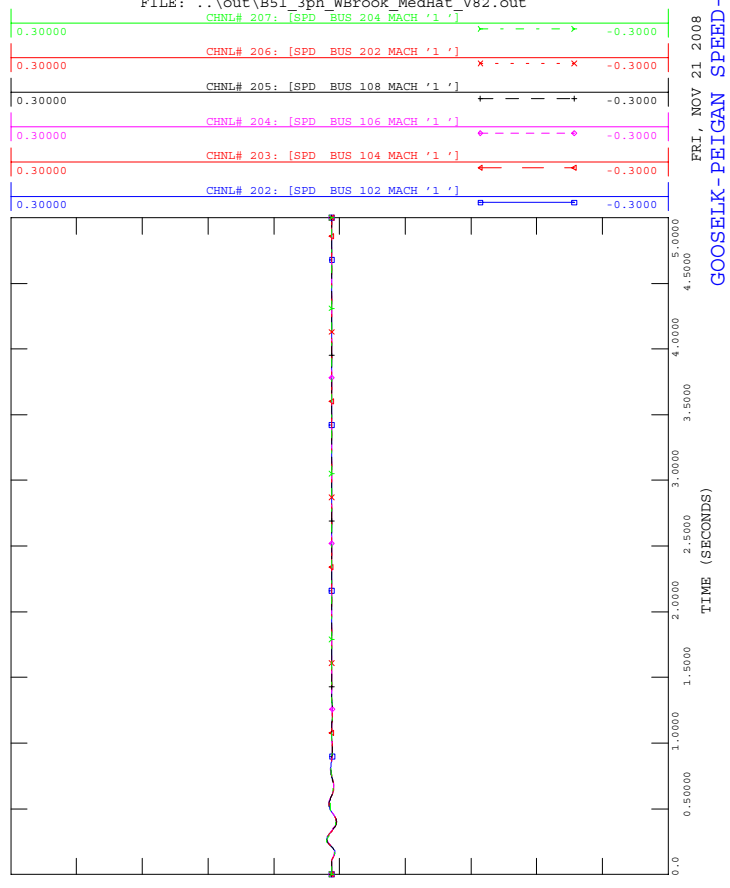
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 MAIL_BLACK_VULC_SPEED-V82

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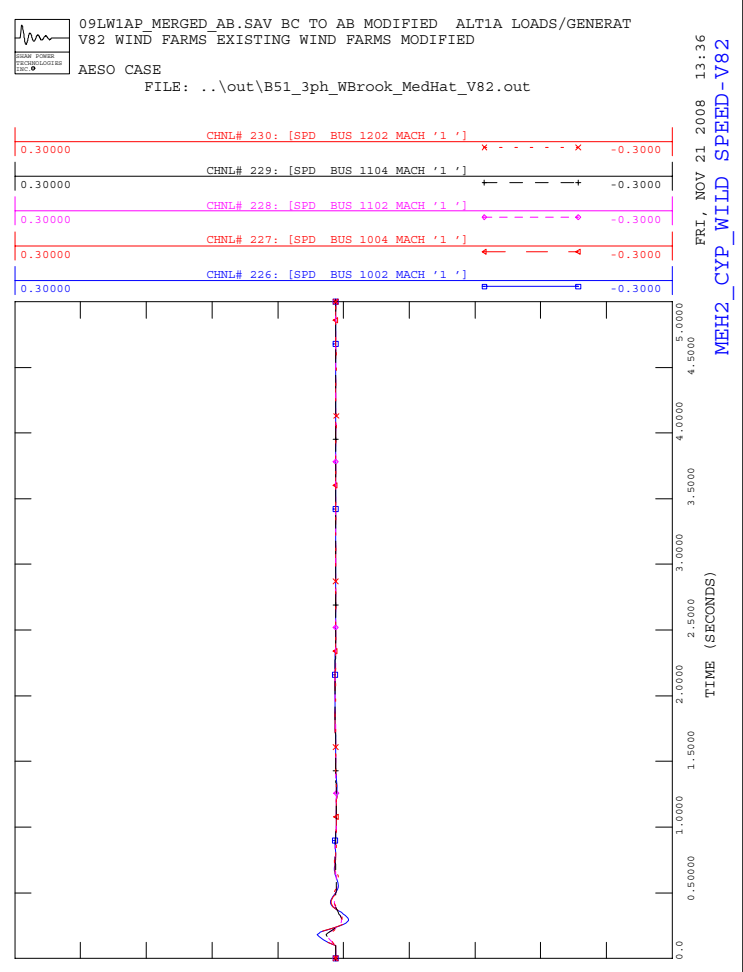
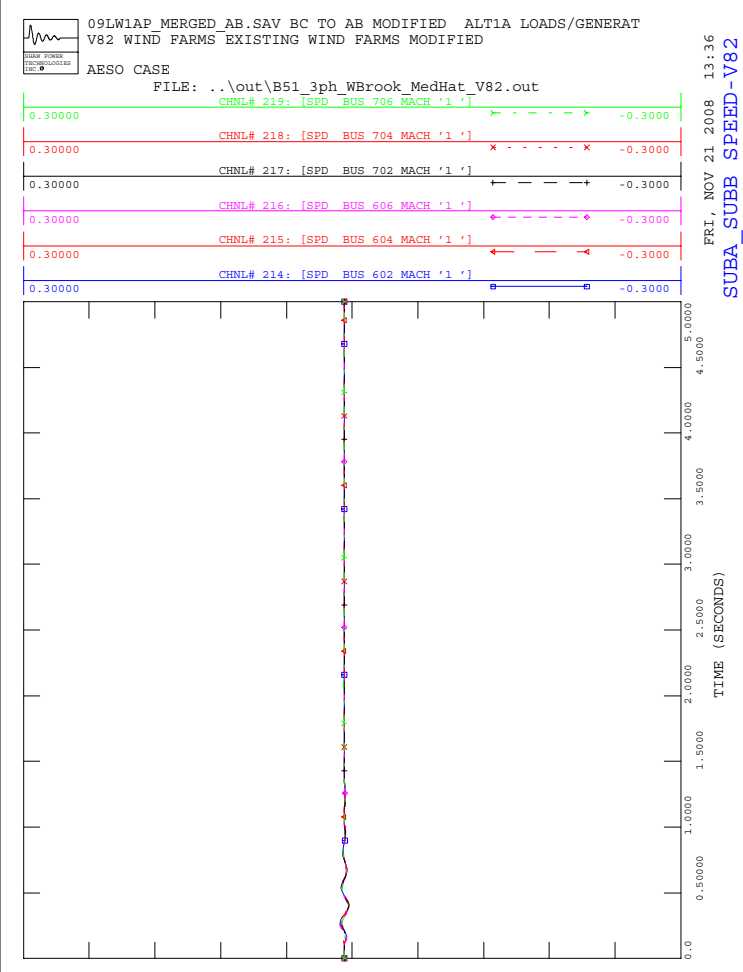
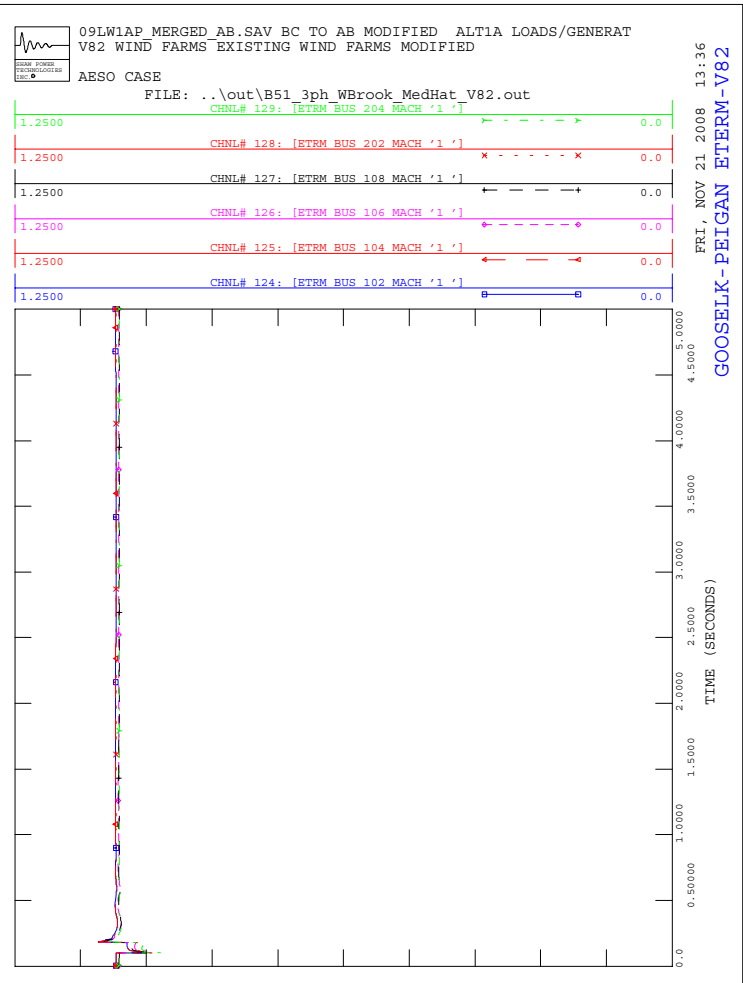
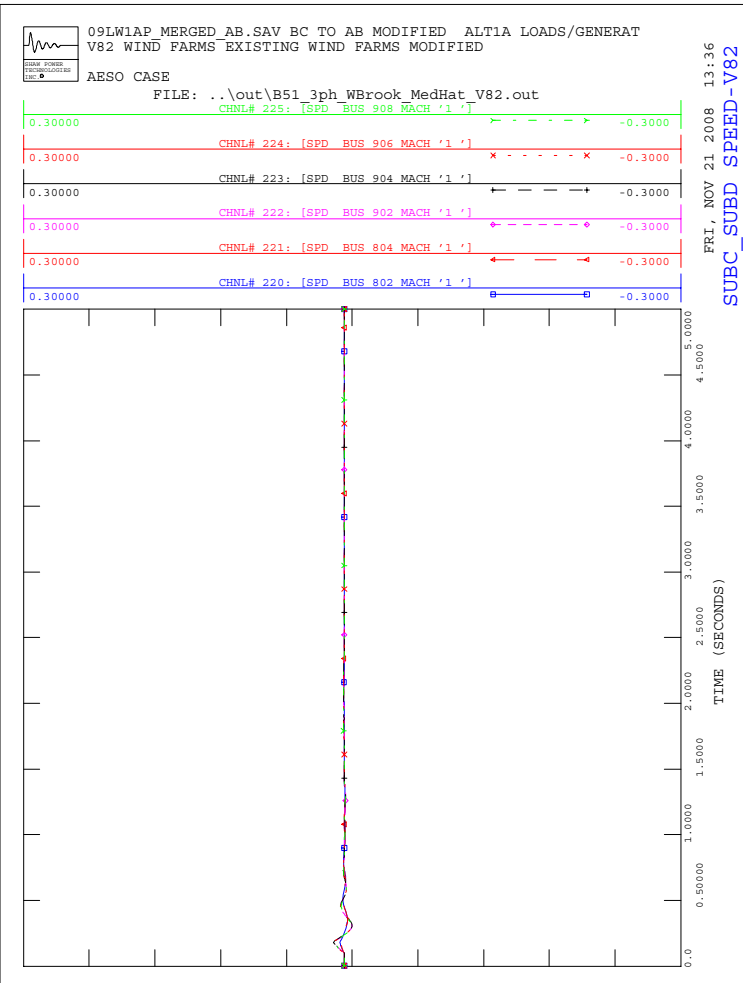


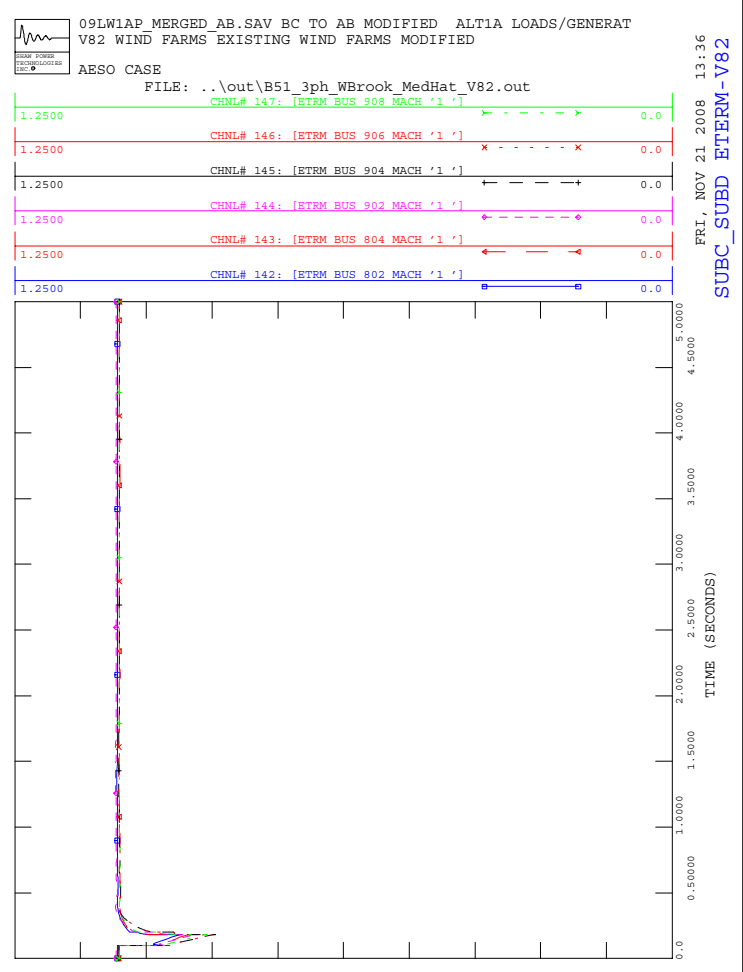
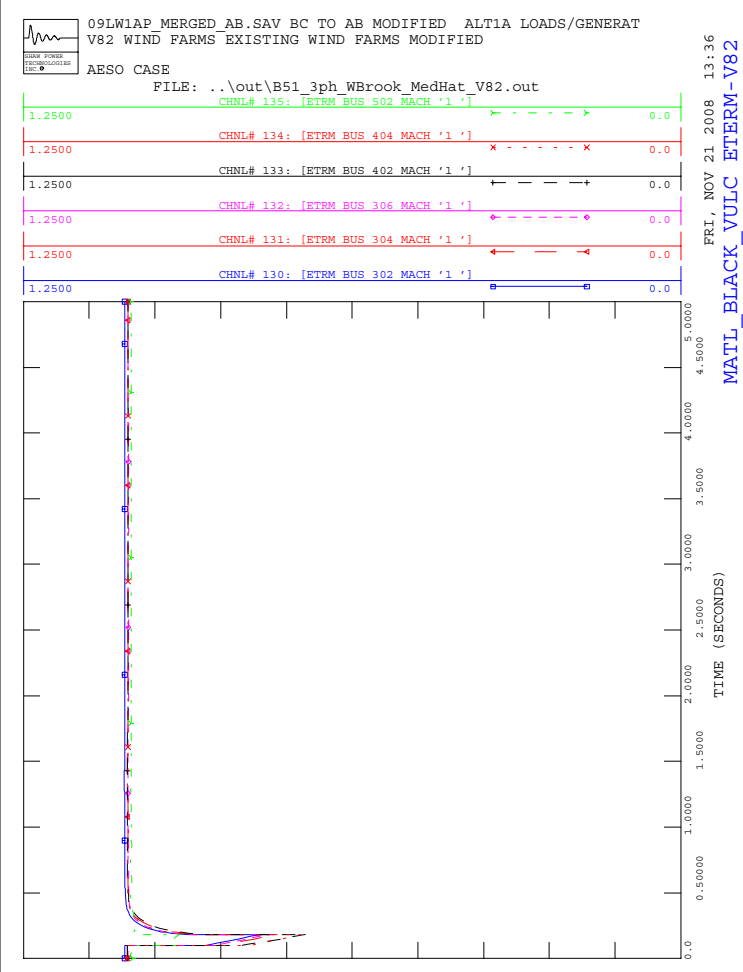
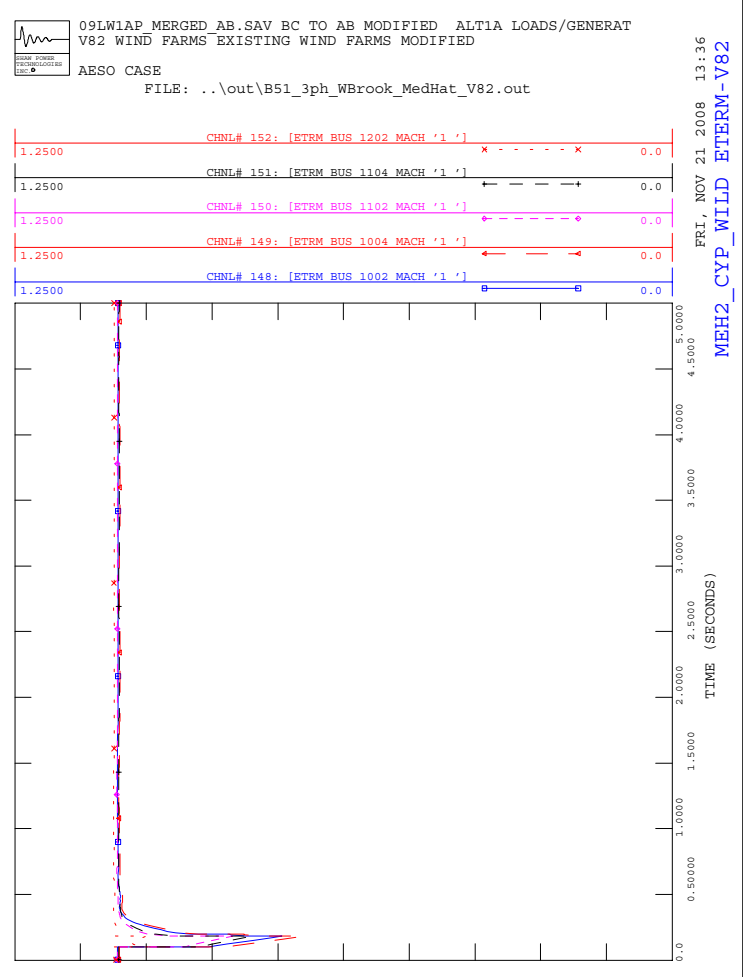
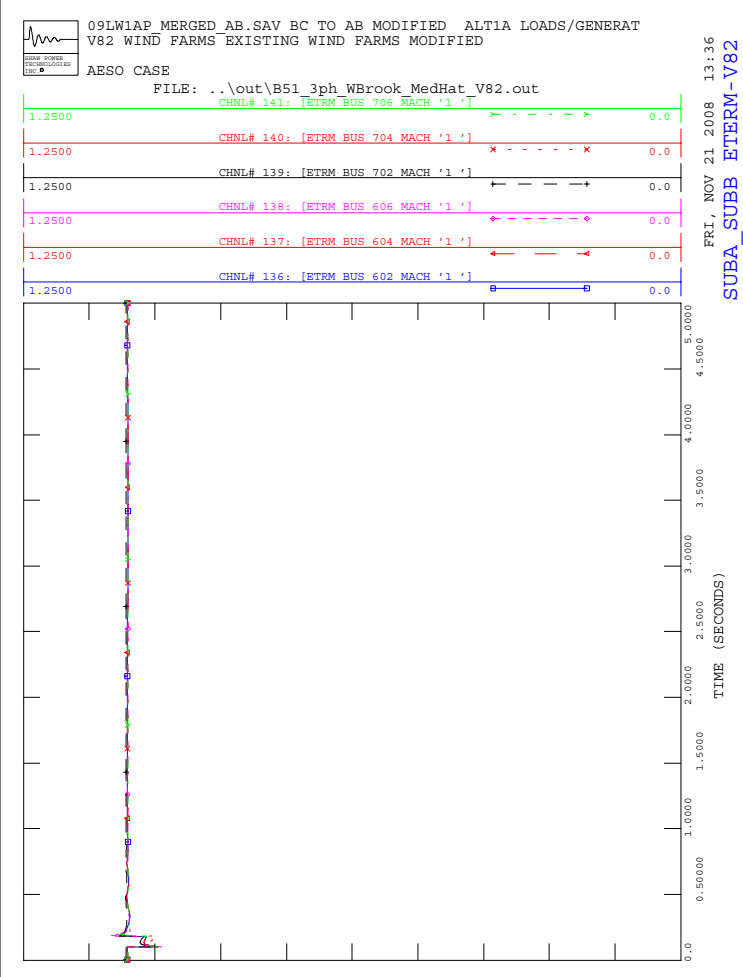
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 SUBC_SUBD_VARS-V82

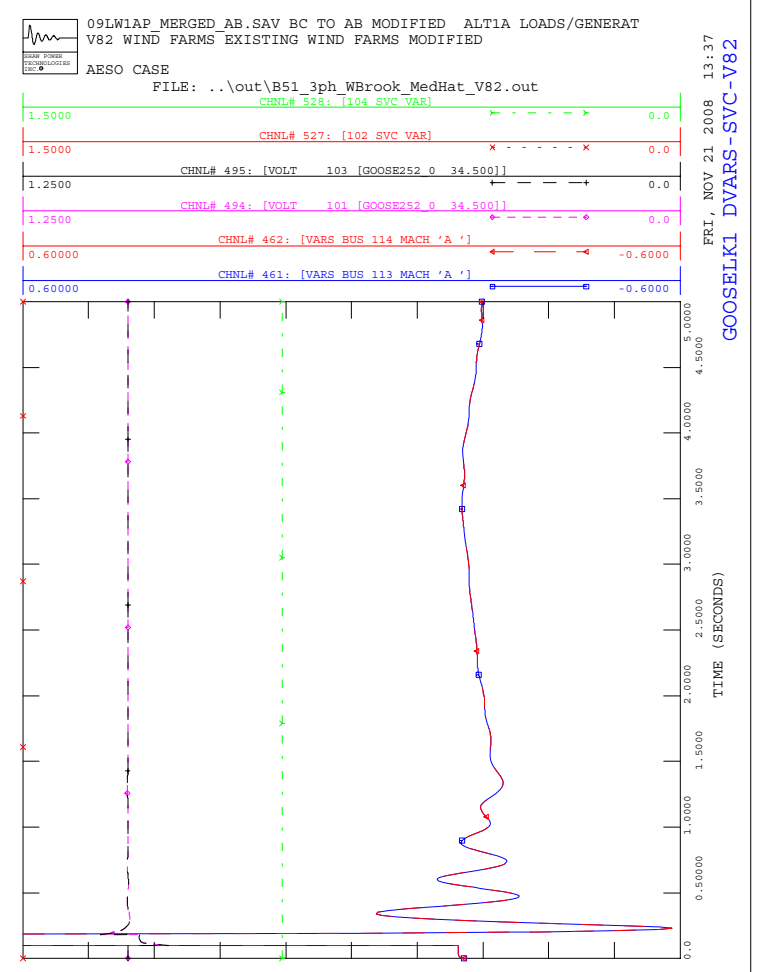
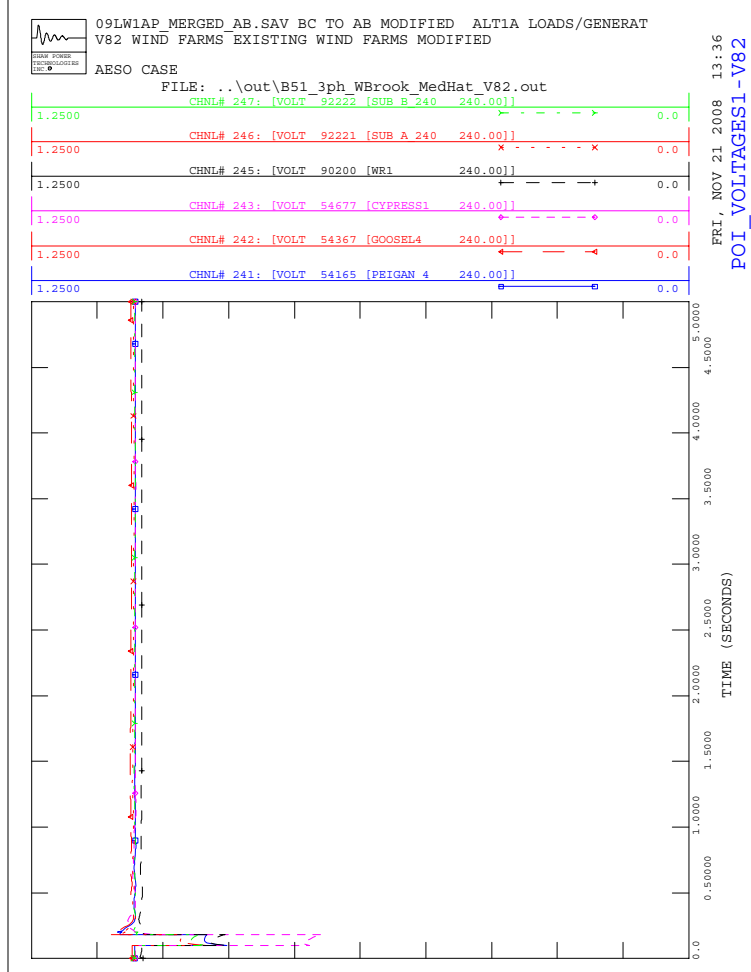
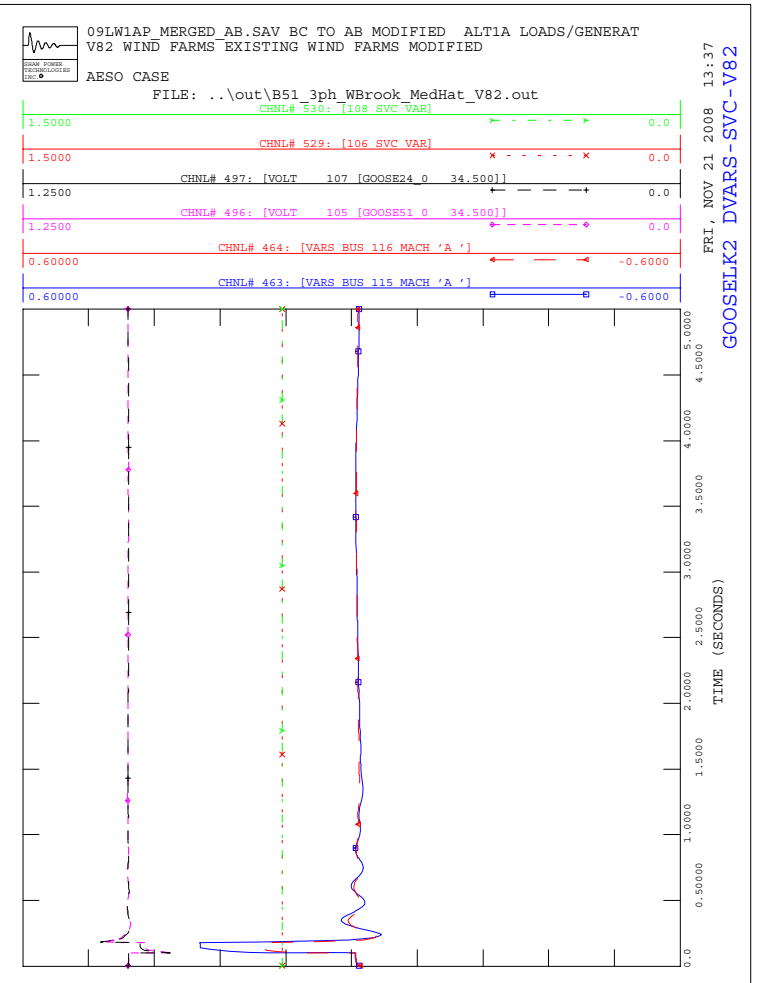
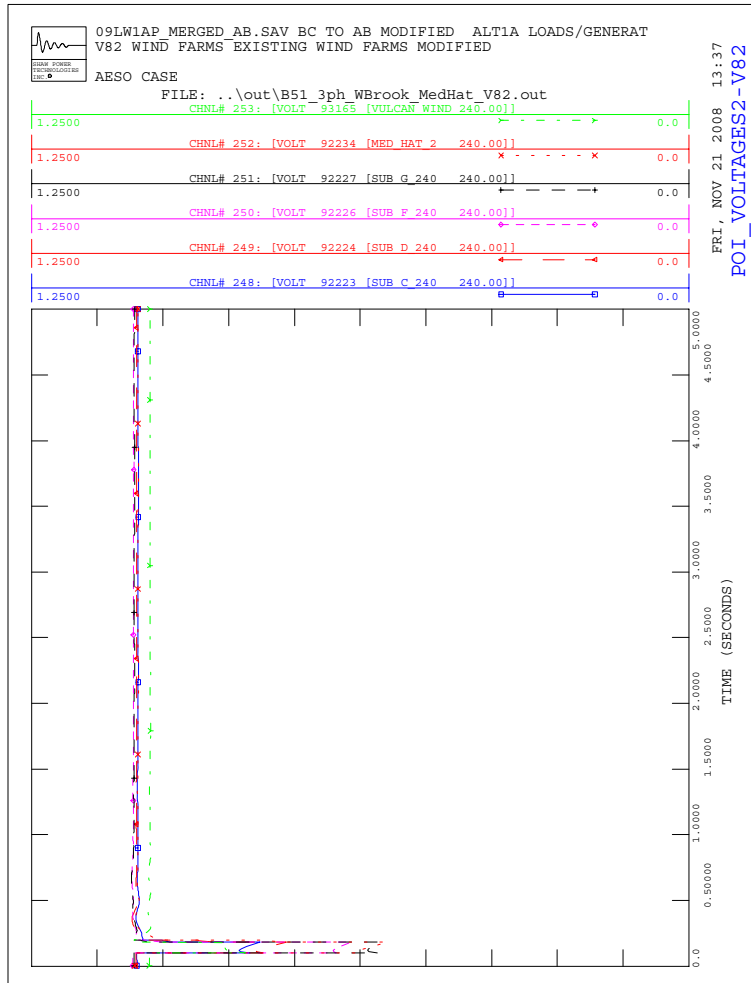
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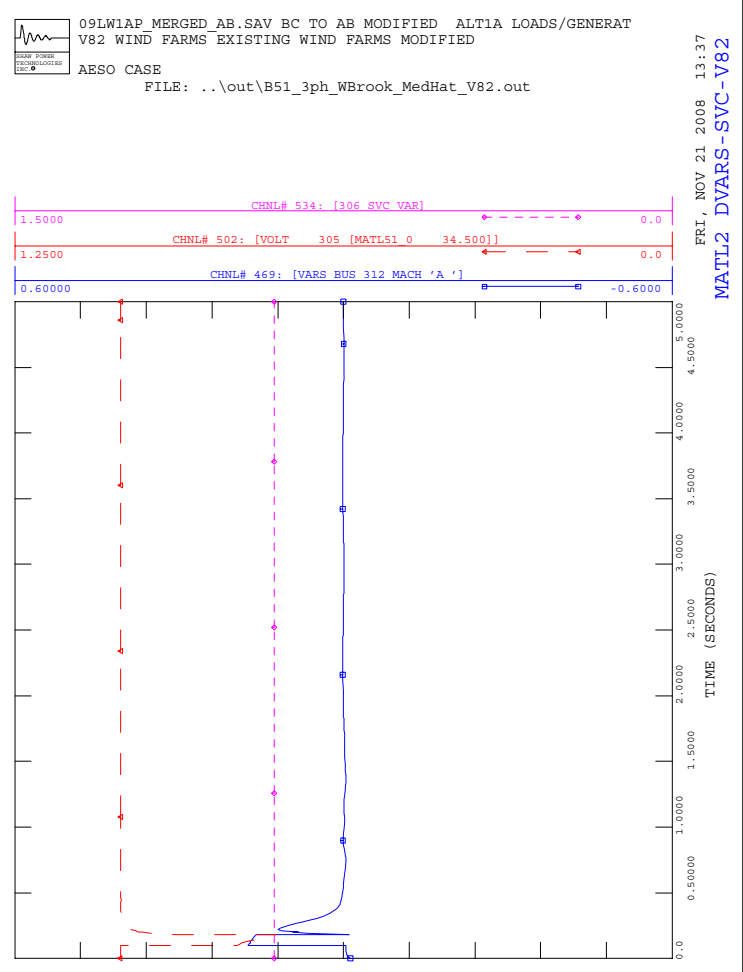
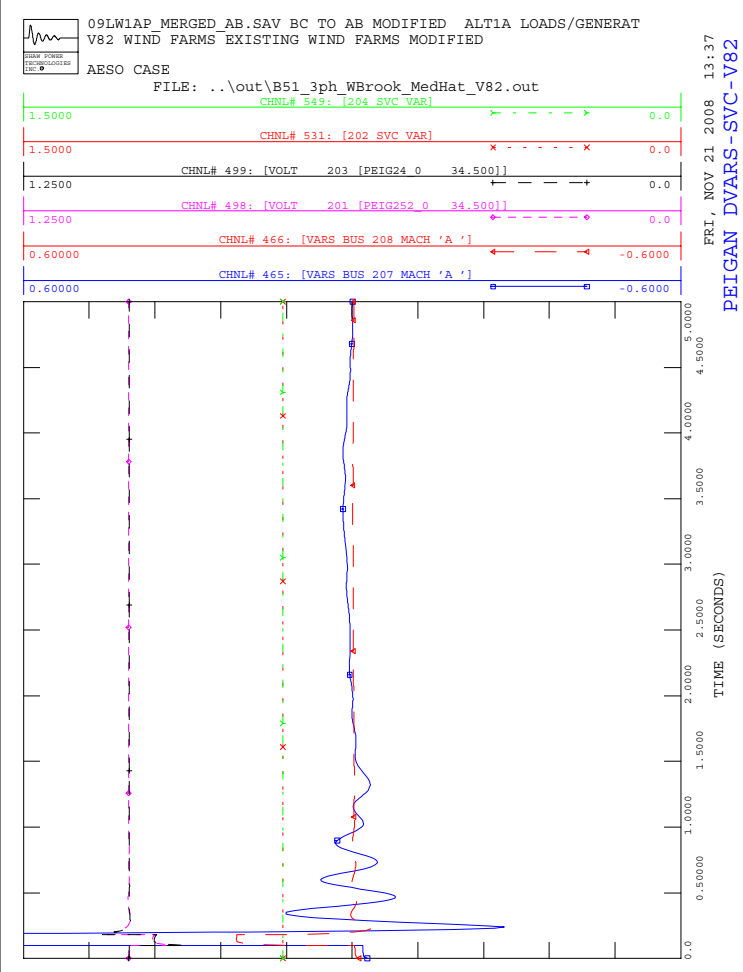
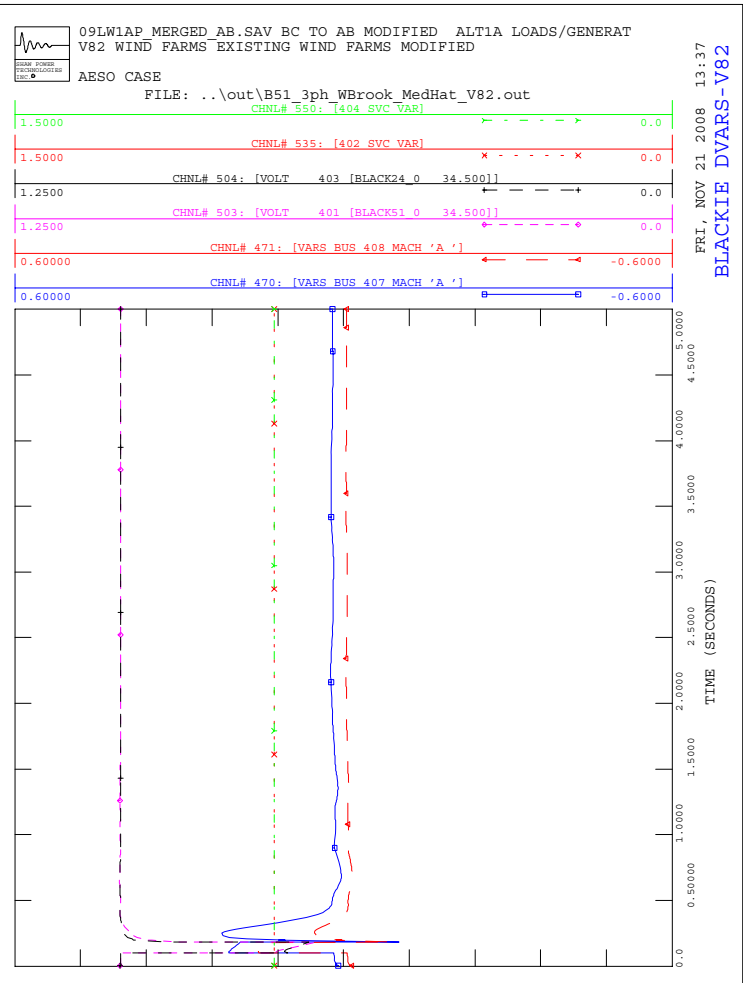
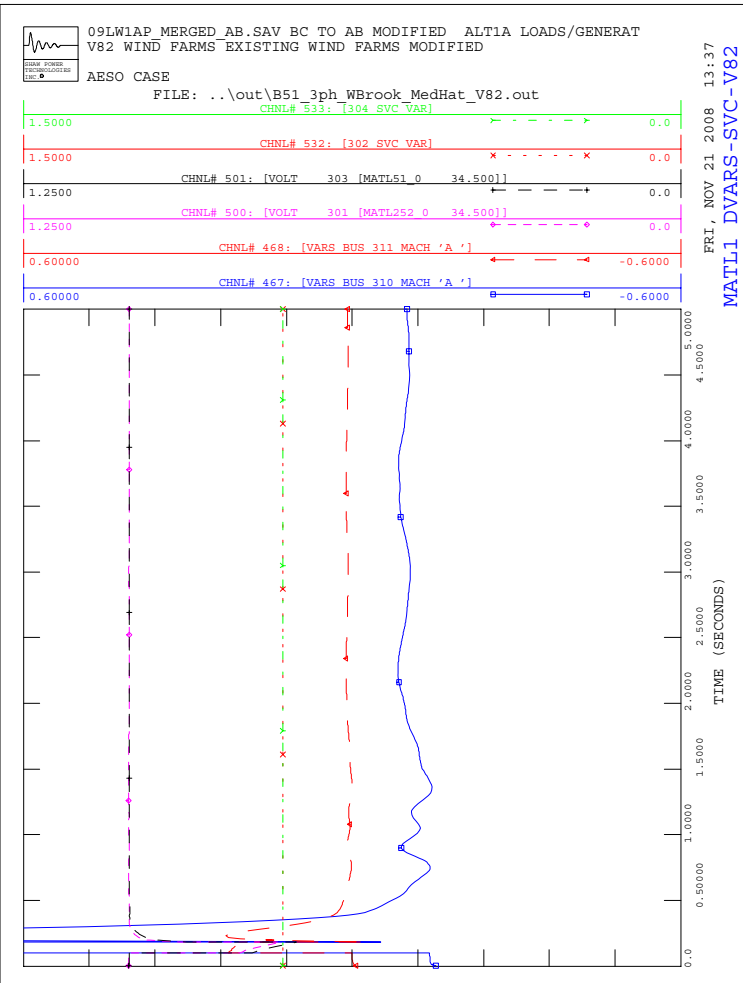


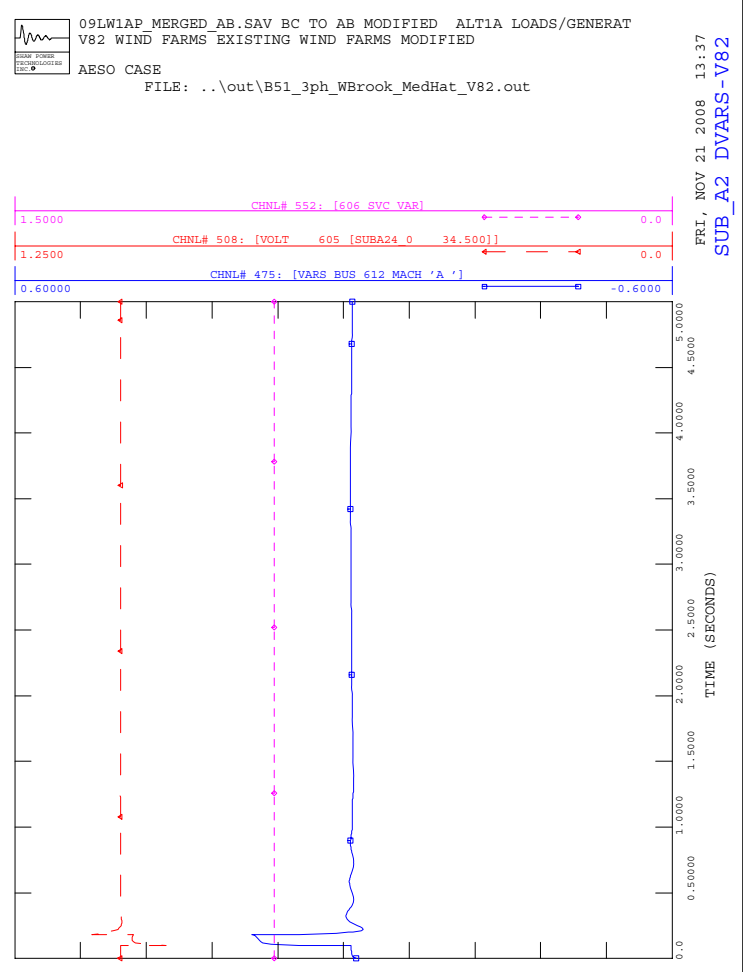
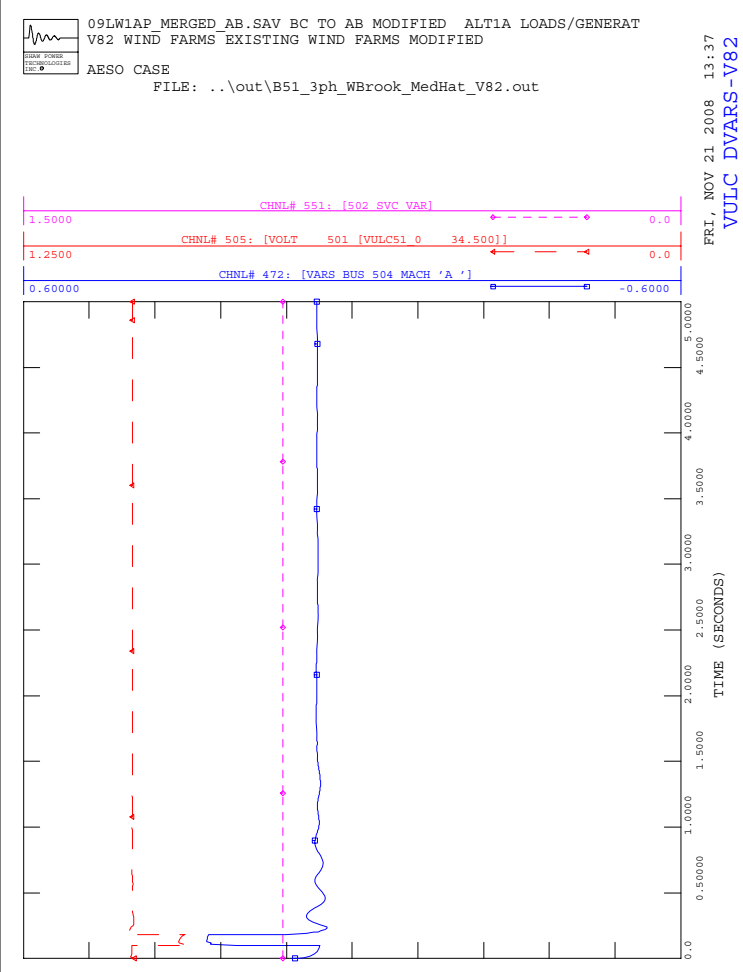
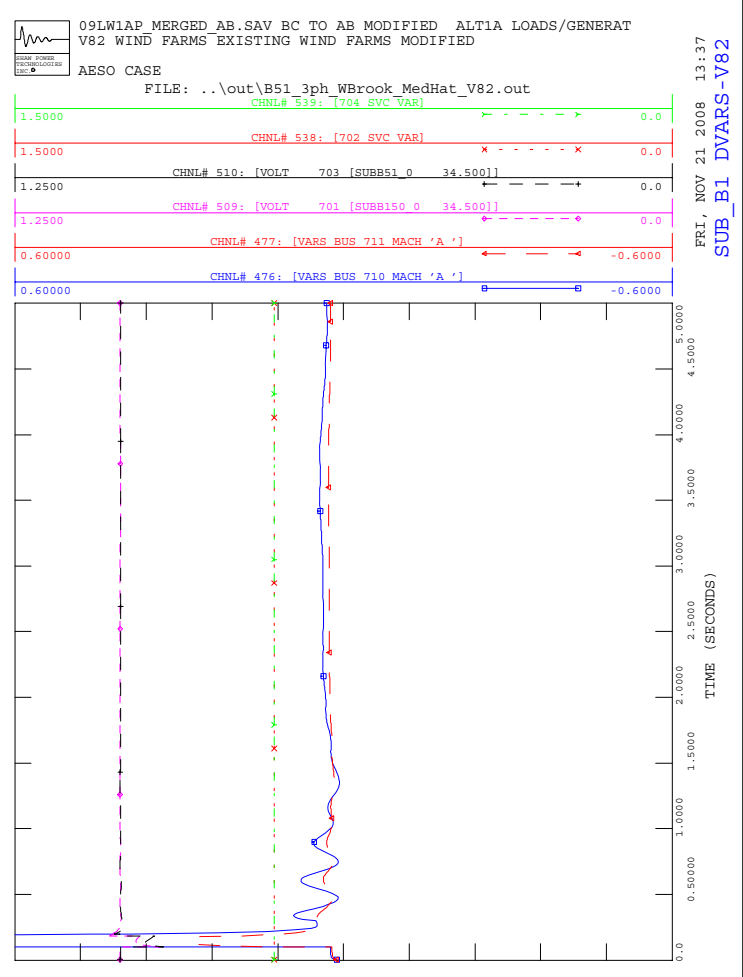
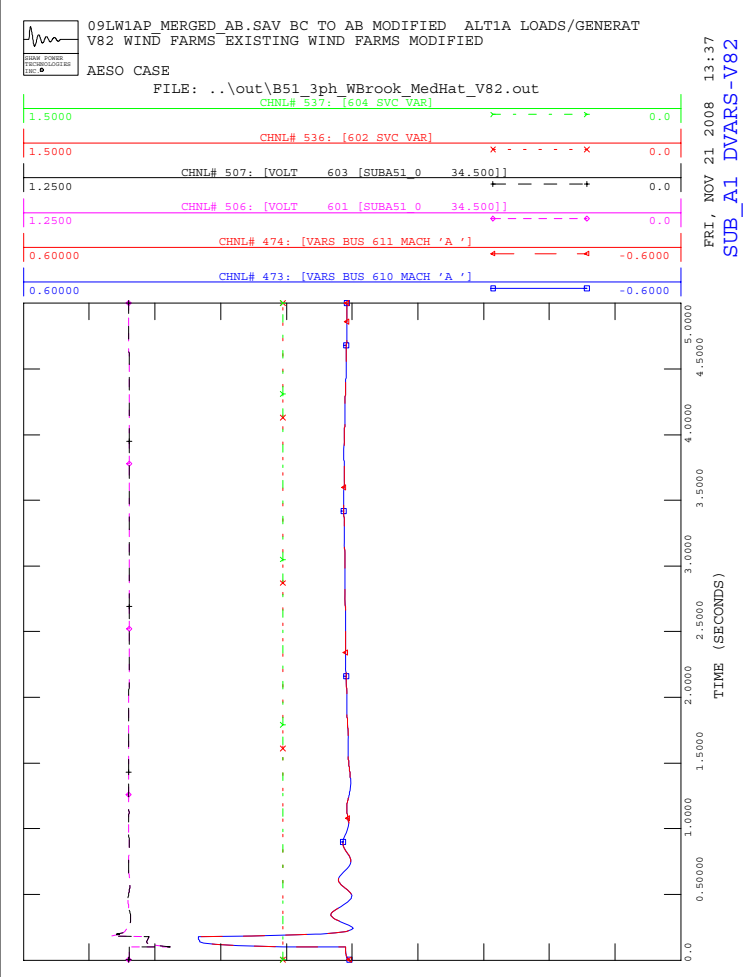
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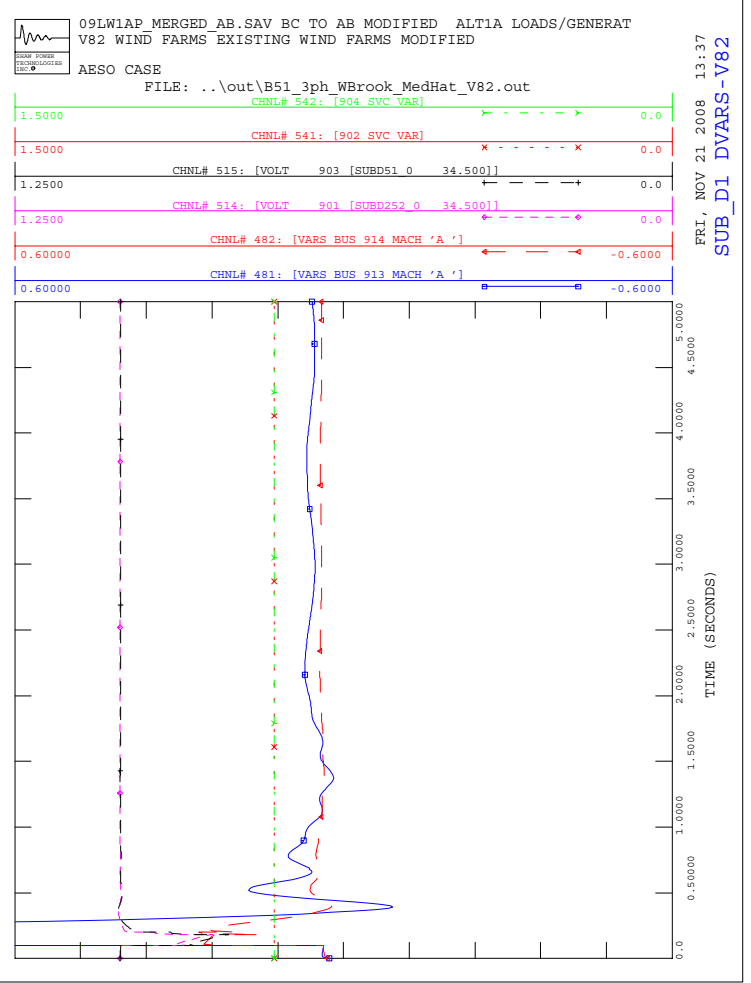
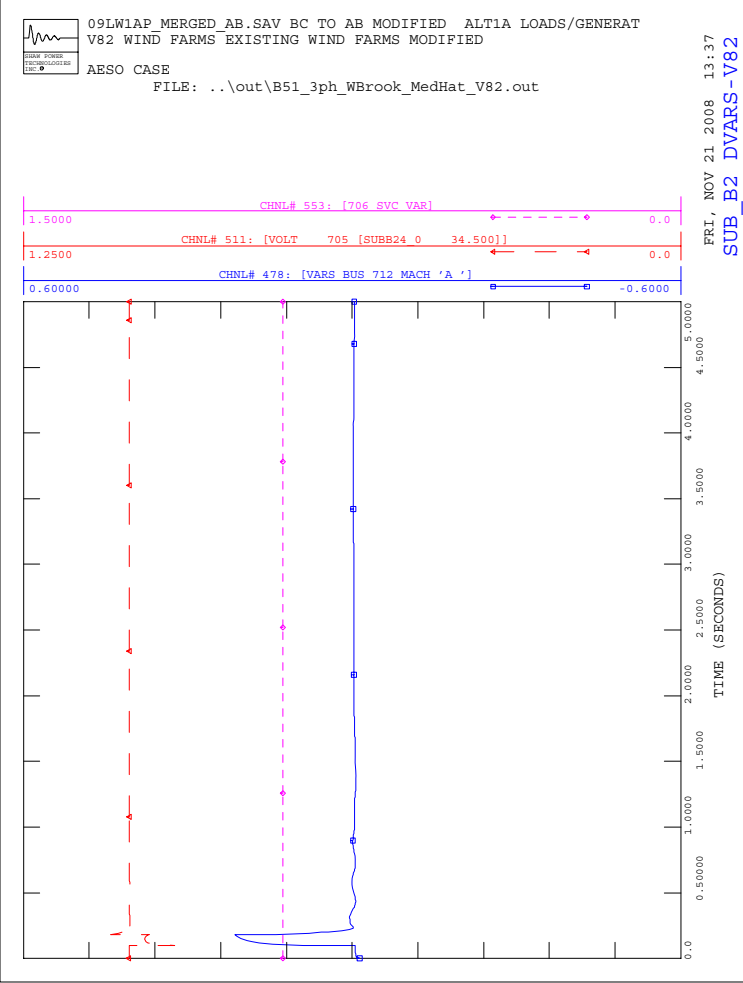
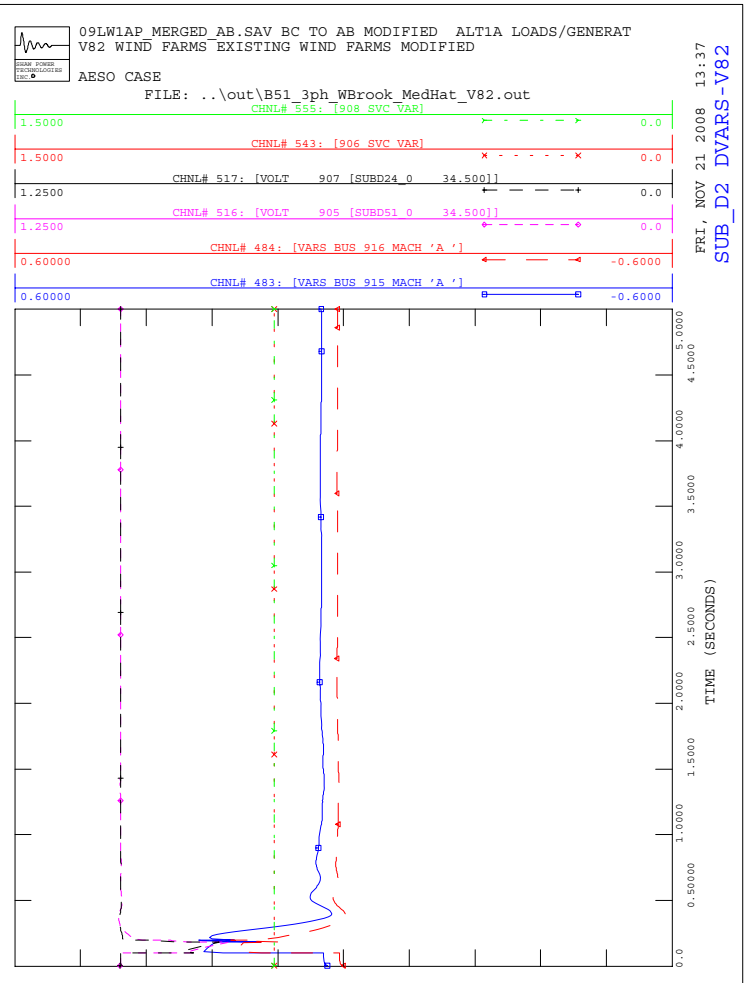
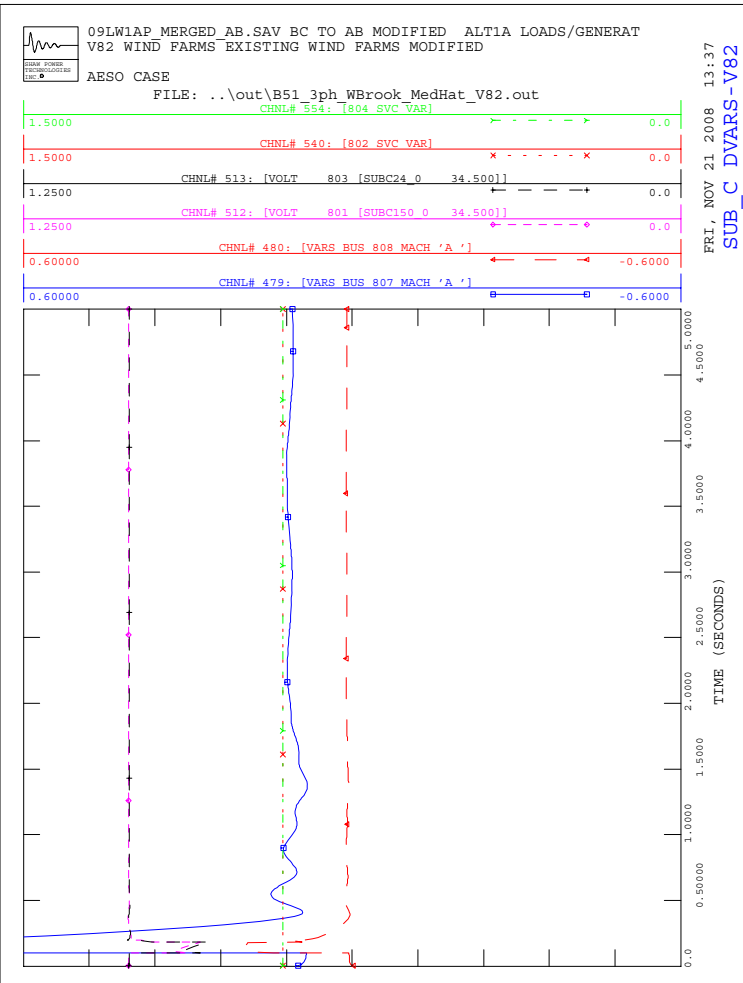


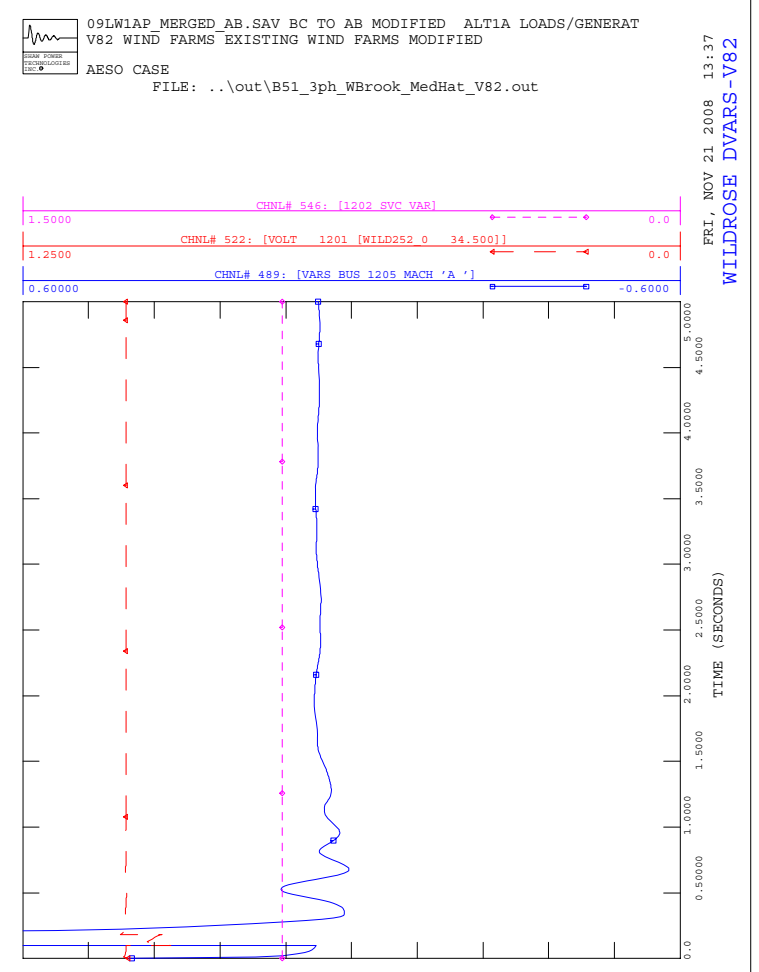
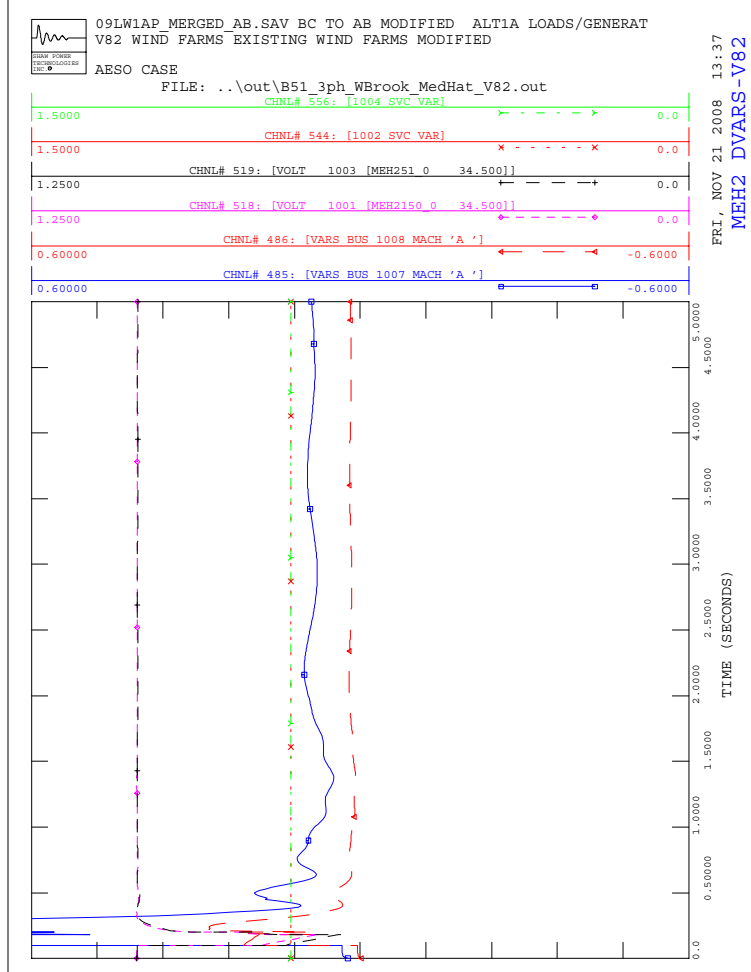
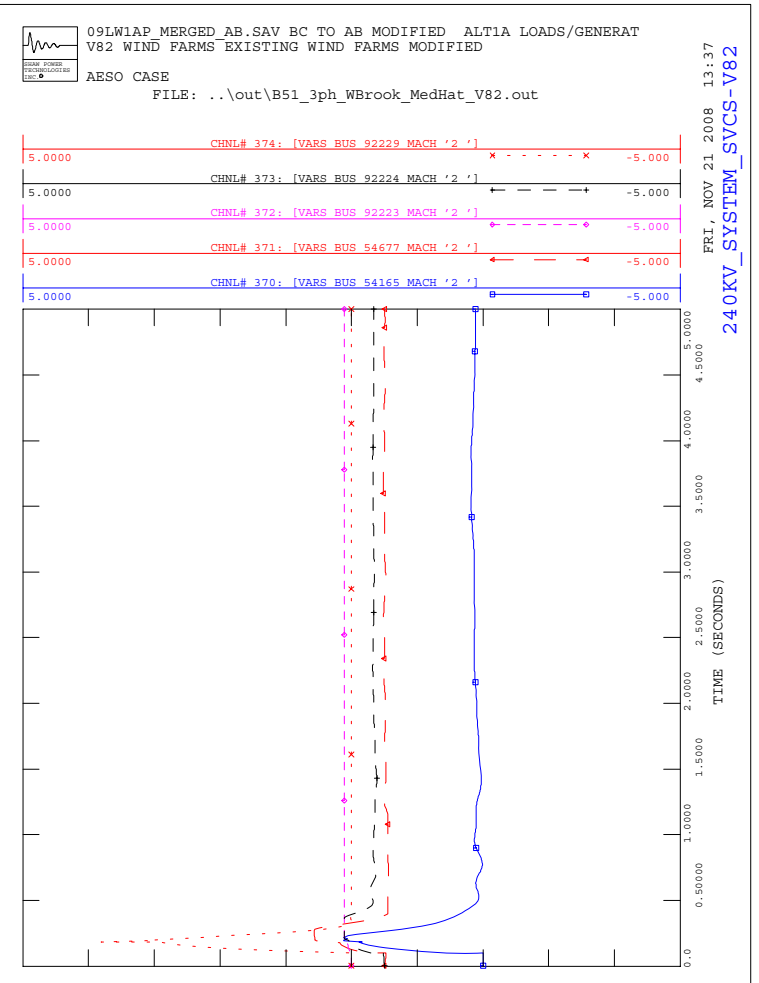
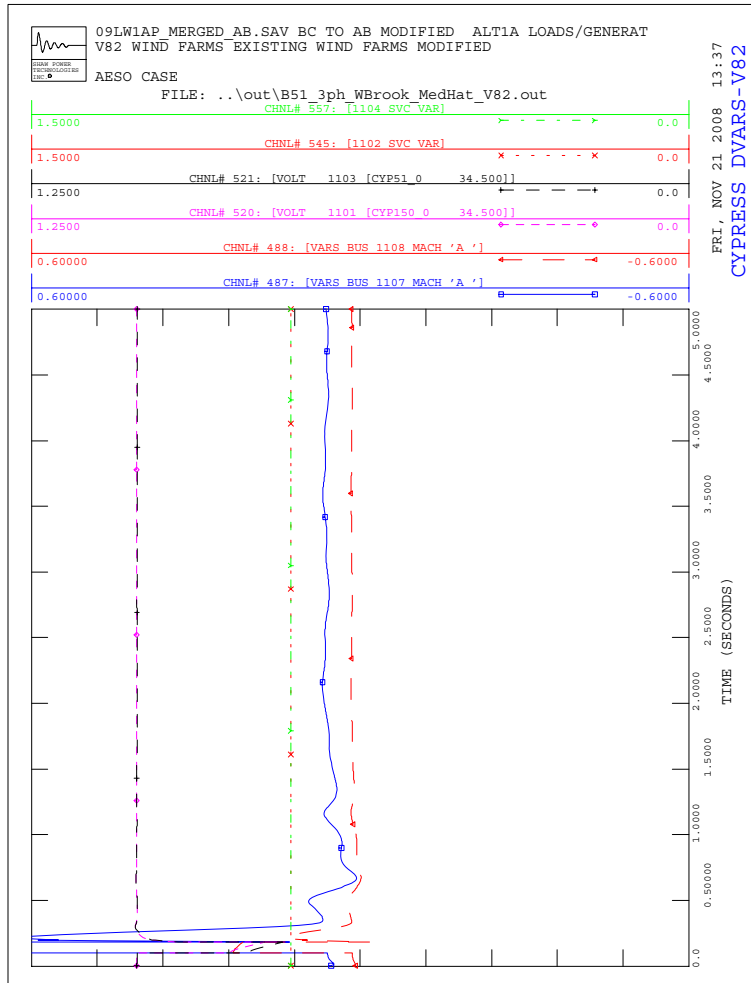








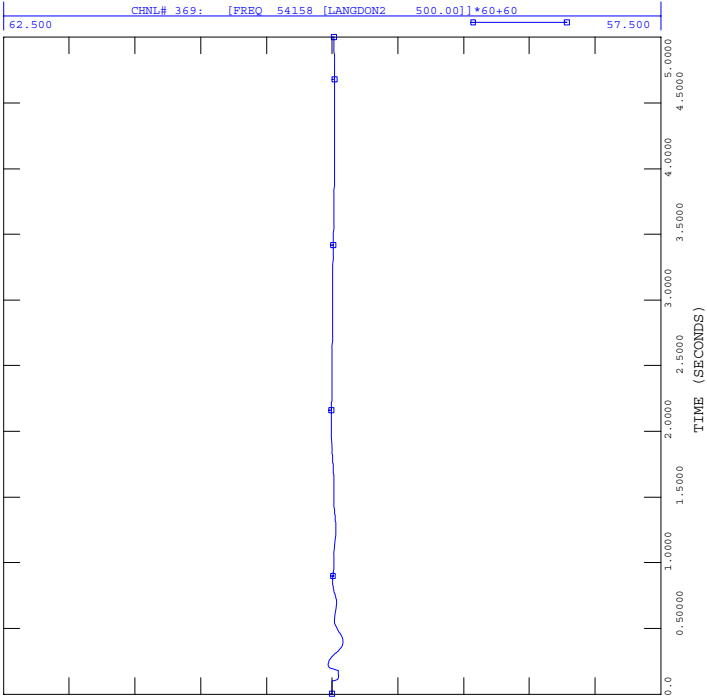






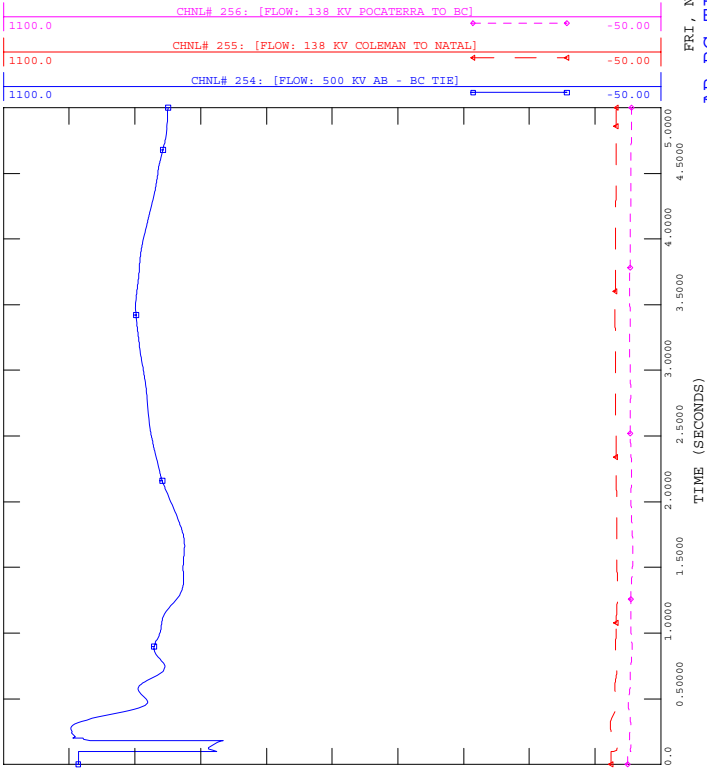
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B51_3ph_WBrook_MedHat_V82.out

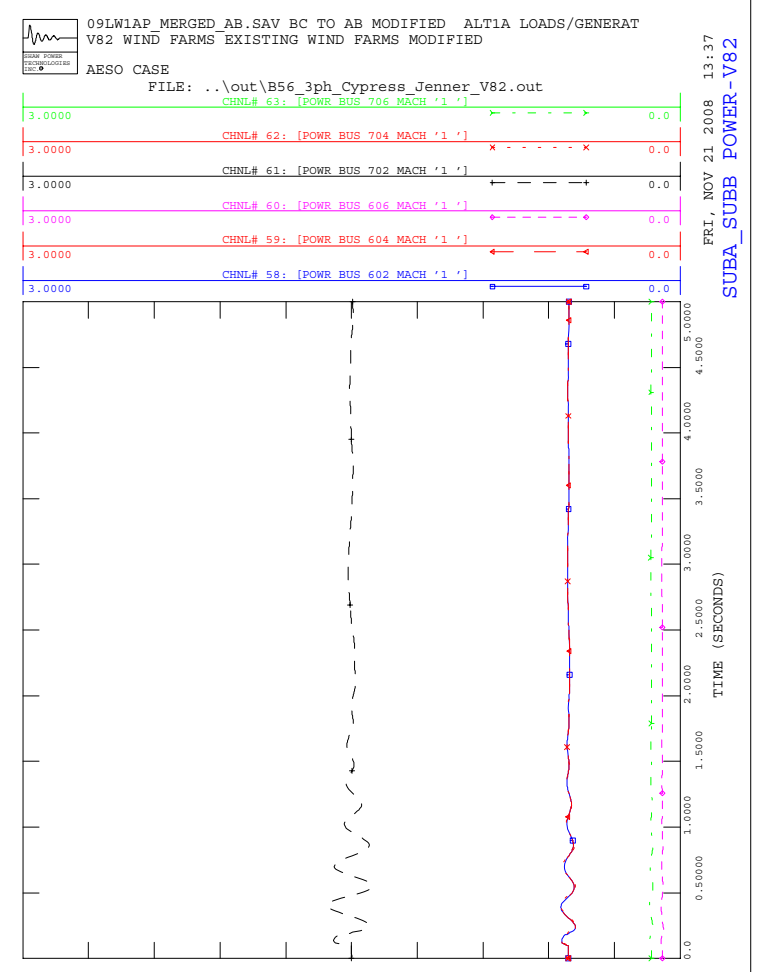
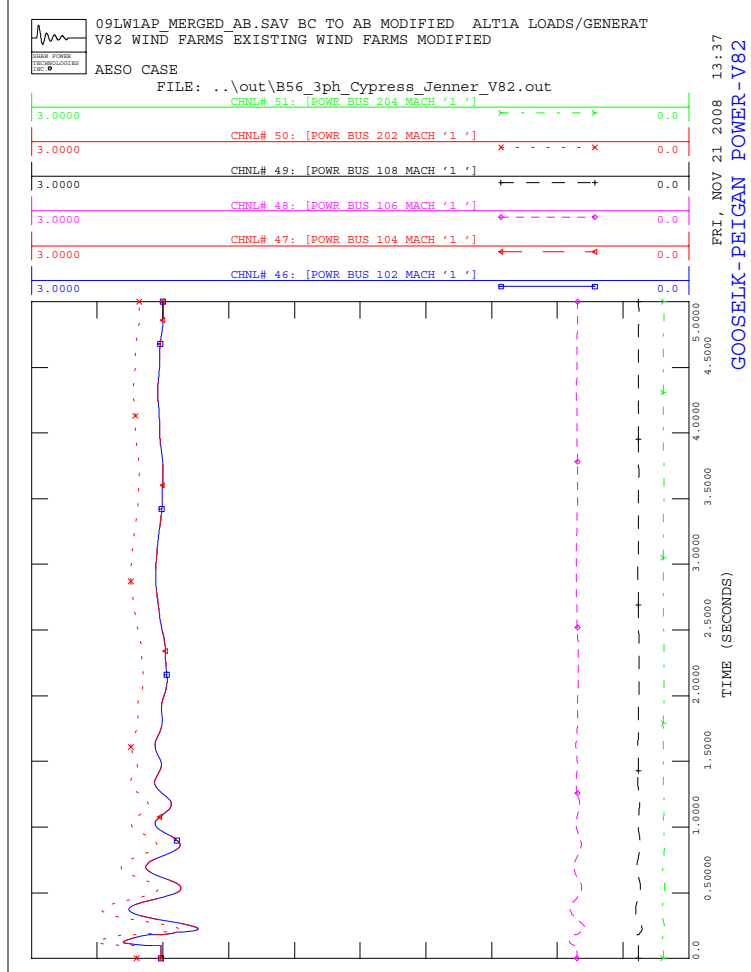
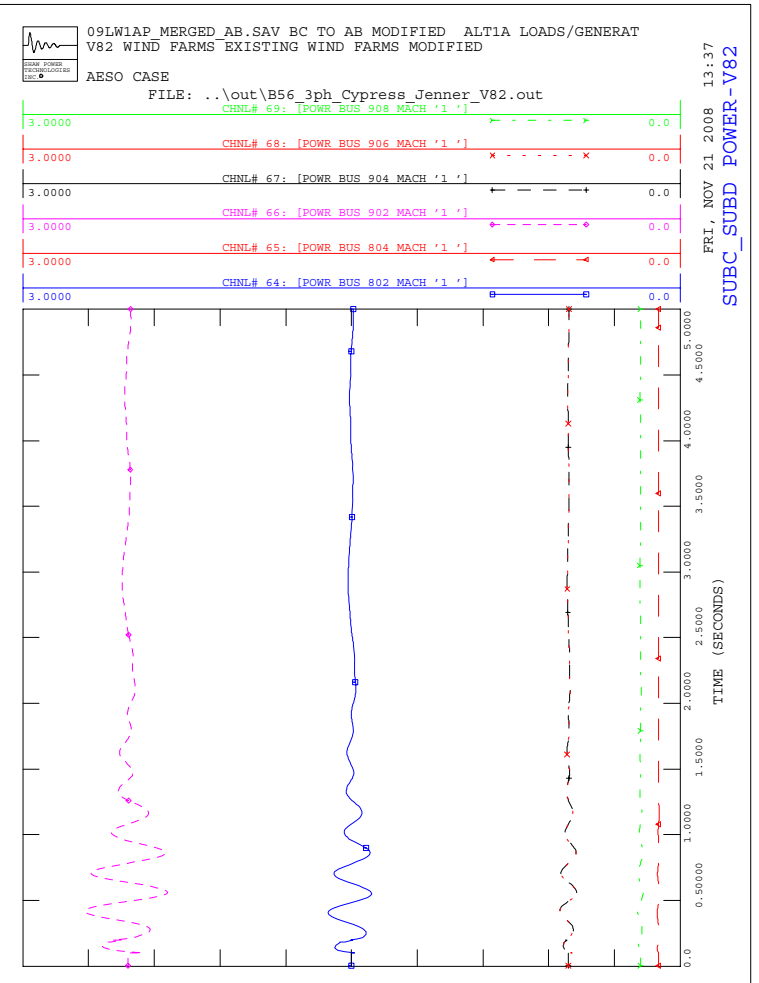
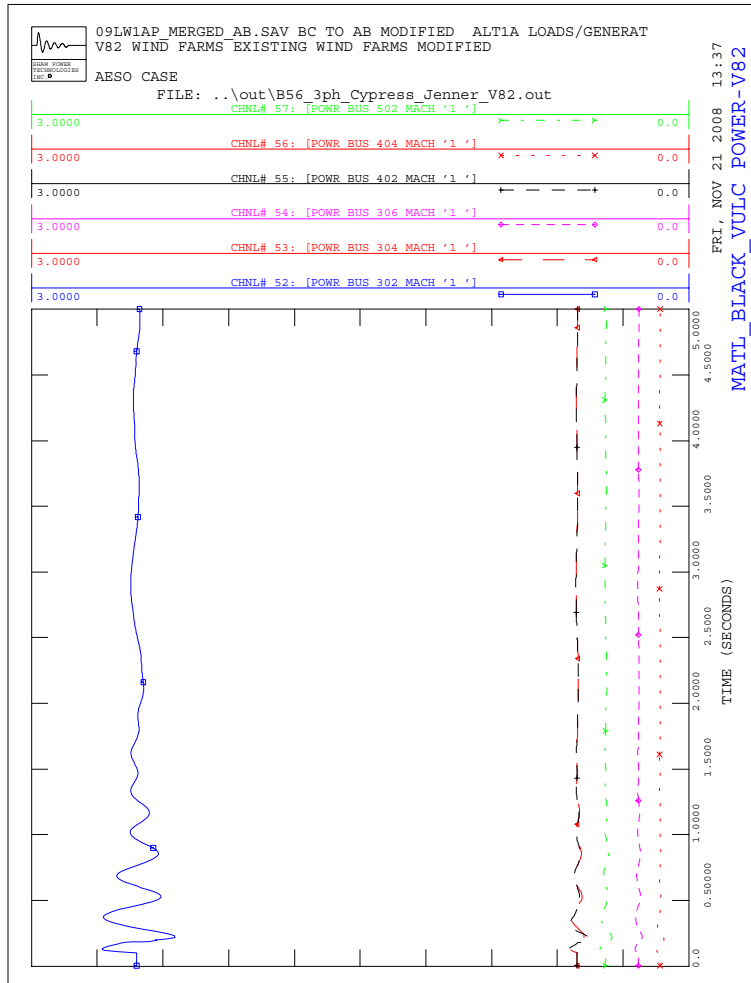
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LANGDON_FRQ-V82

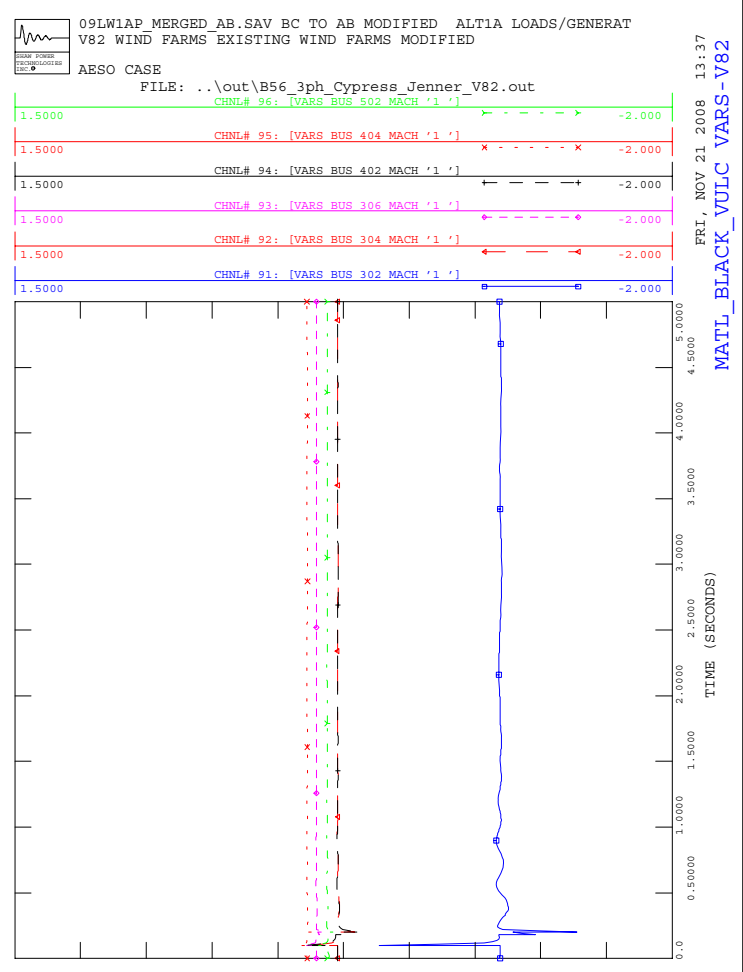
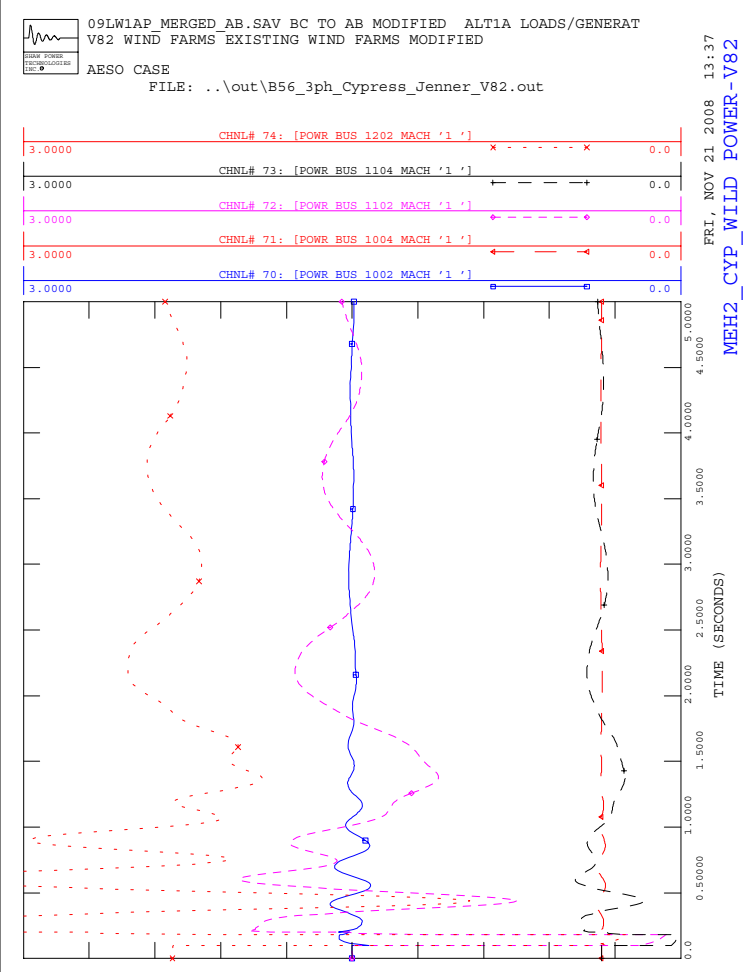
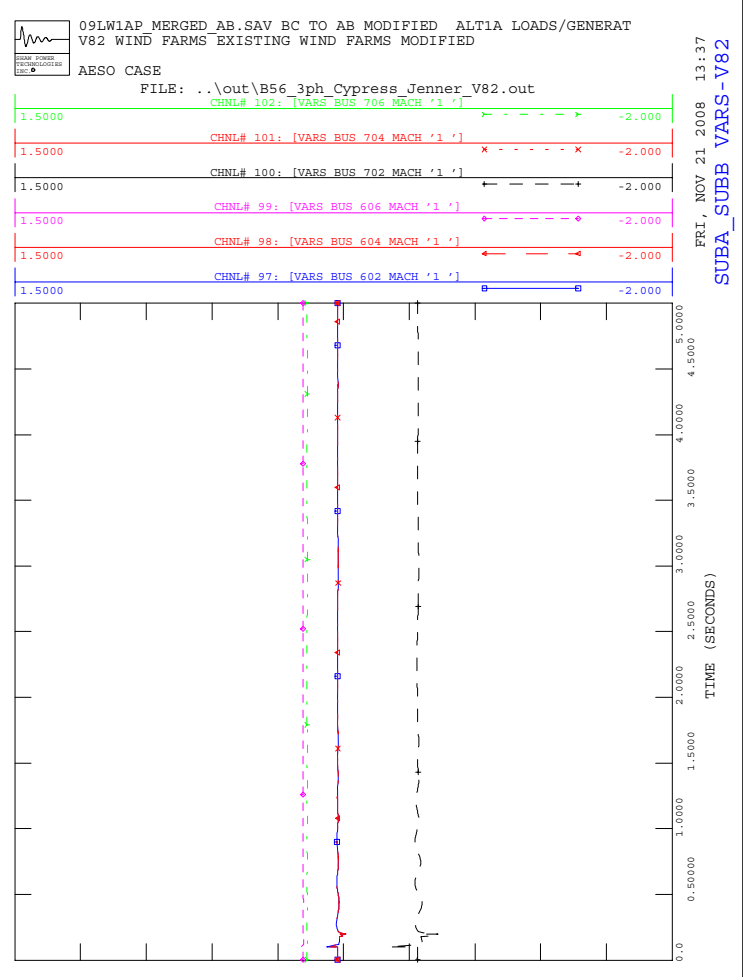
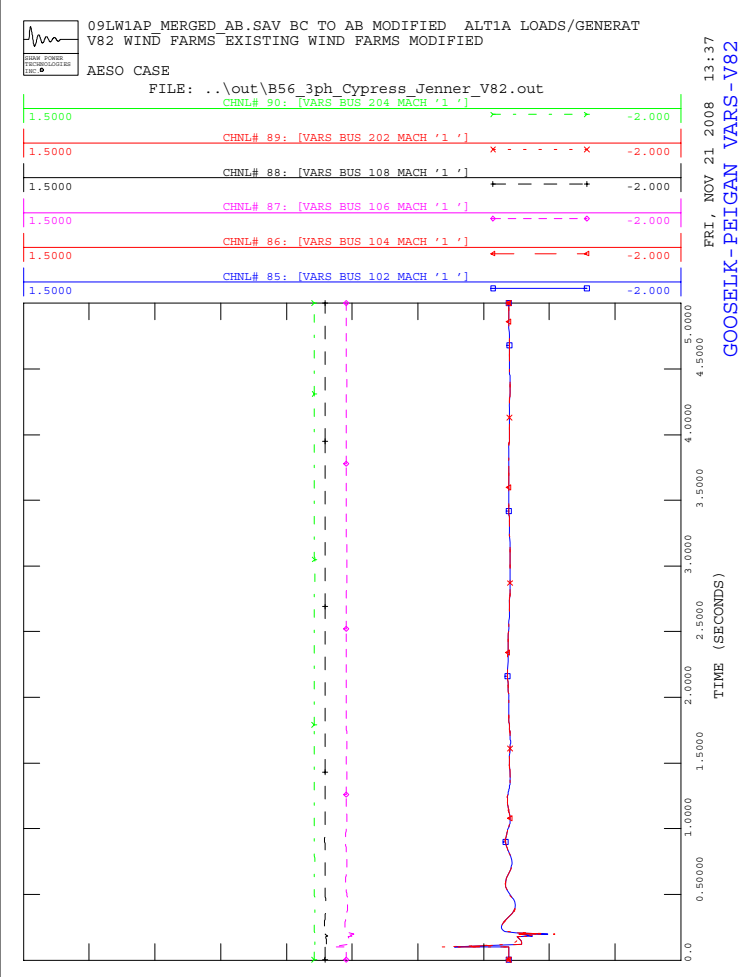


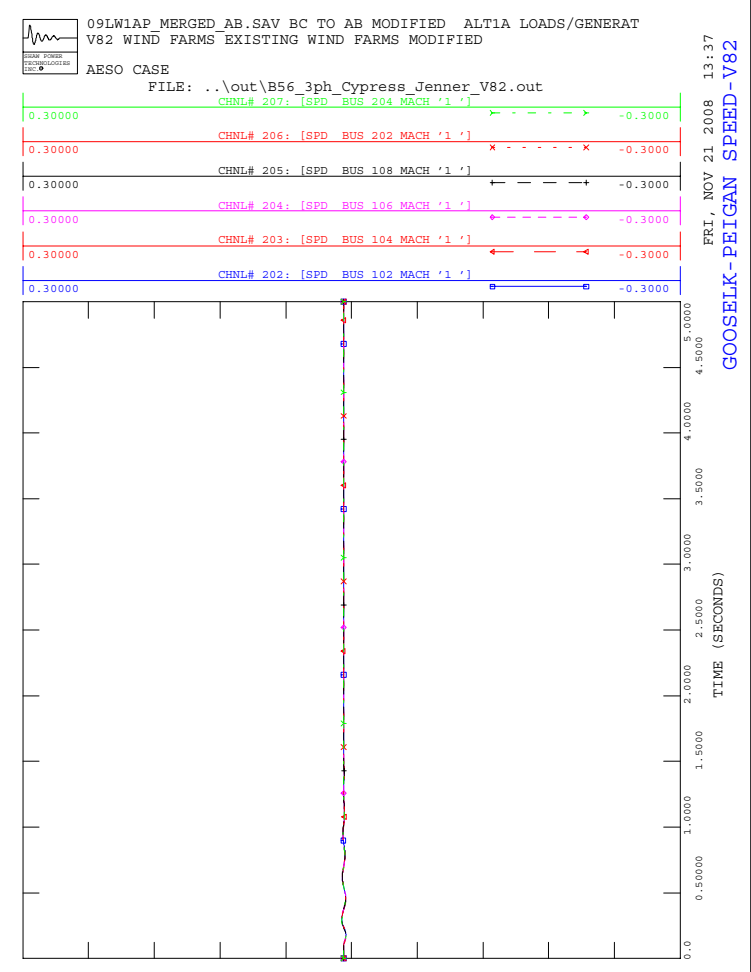
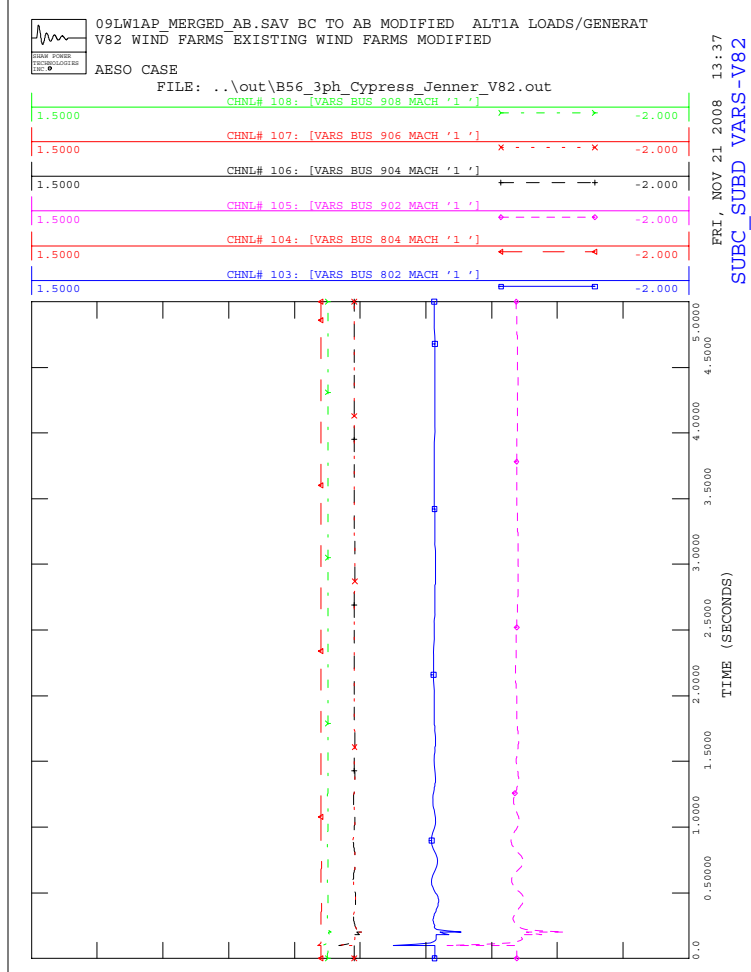
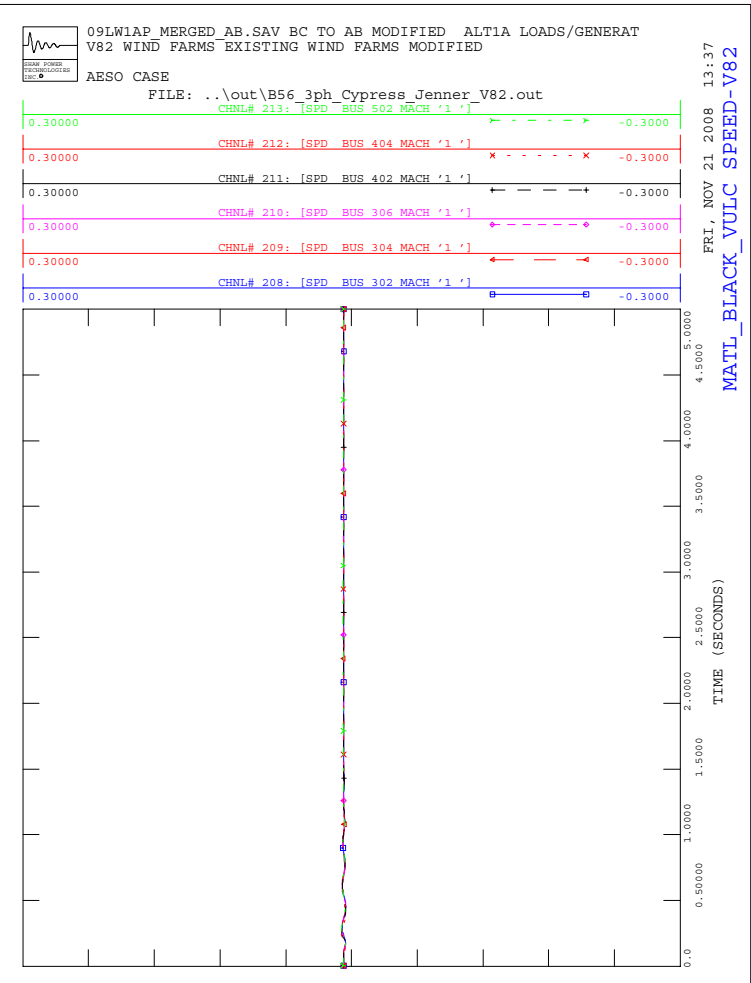
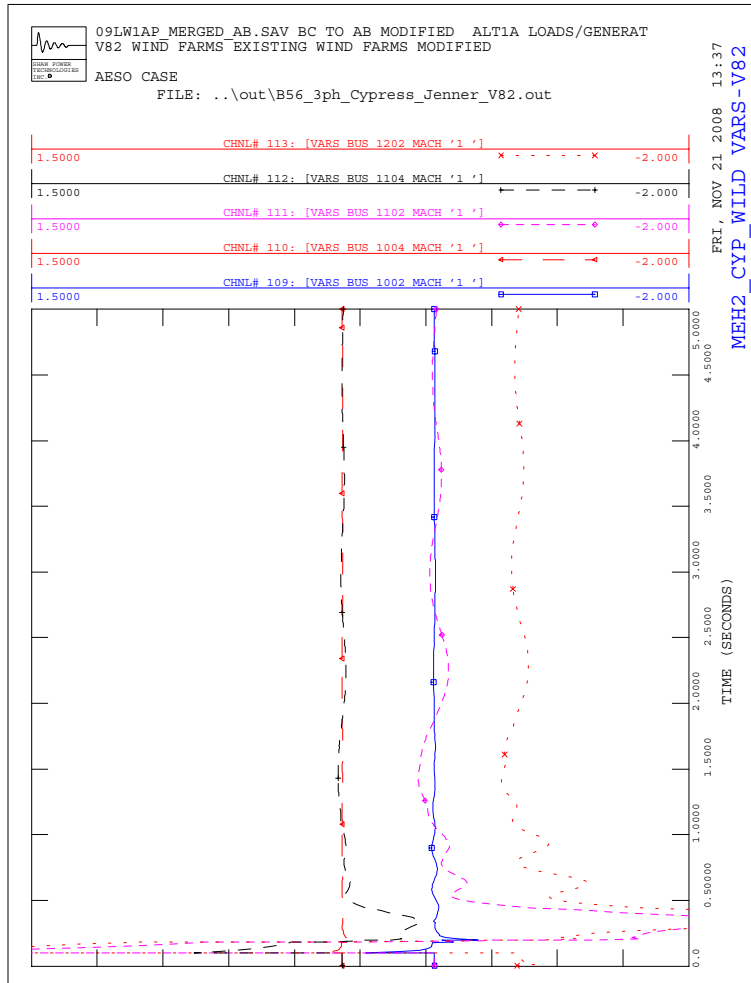
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ABSO CASE
FILE: ..\out\B51_3ph_WBrook_MedHat_V82.out

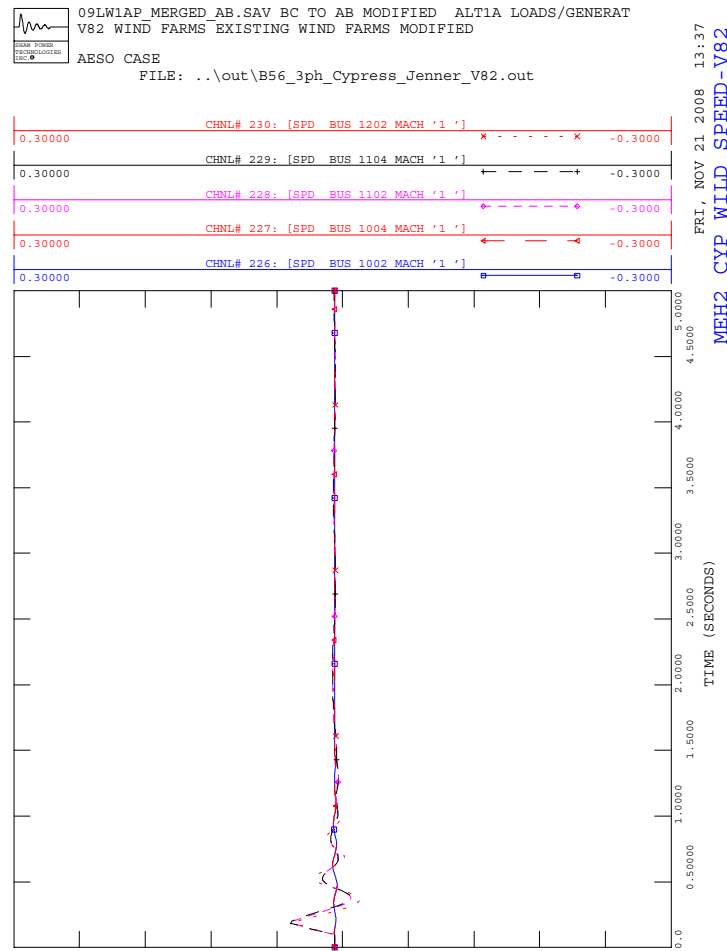
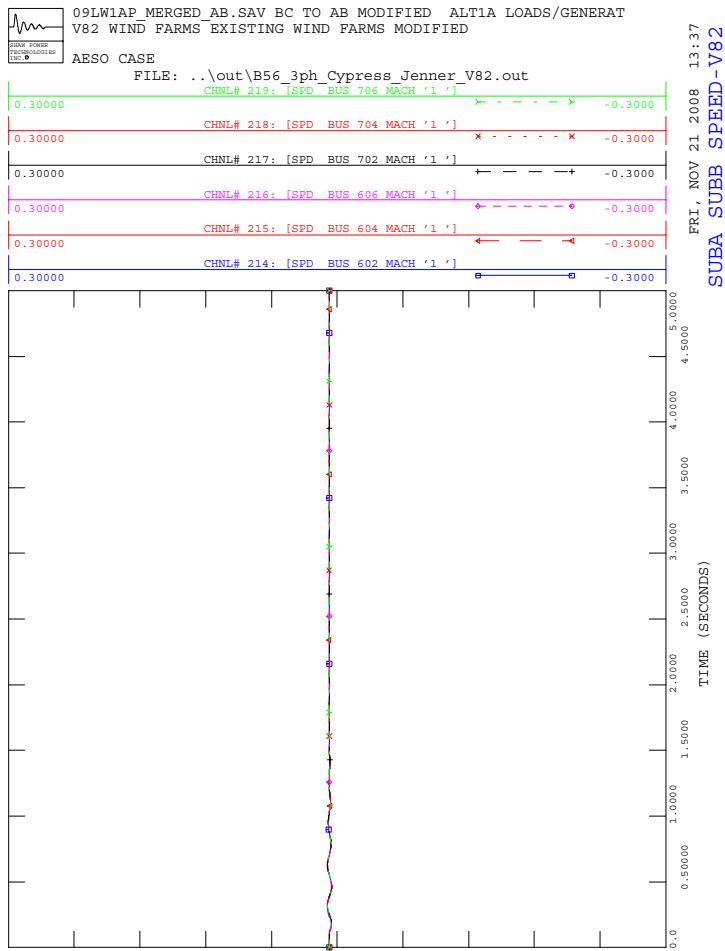
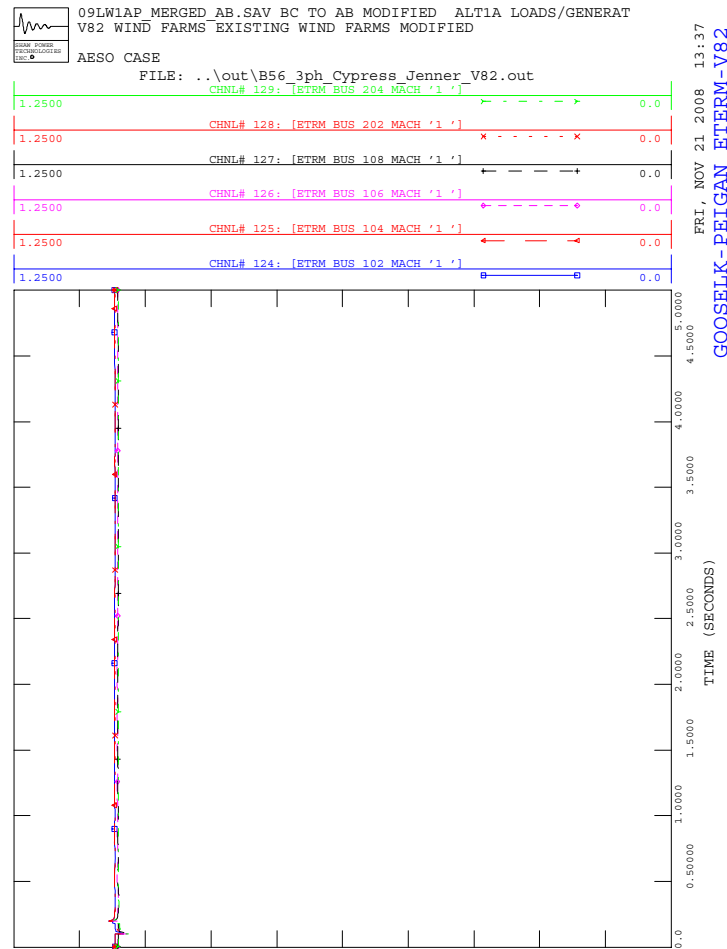
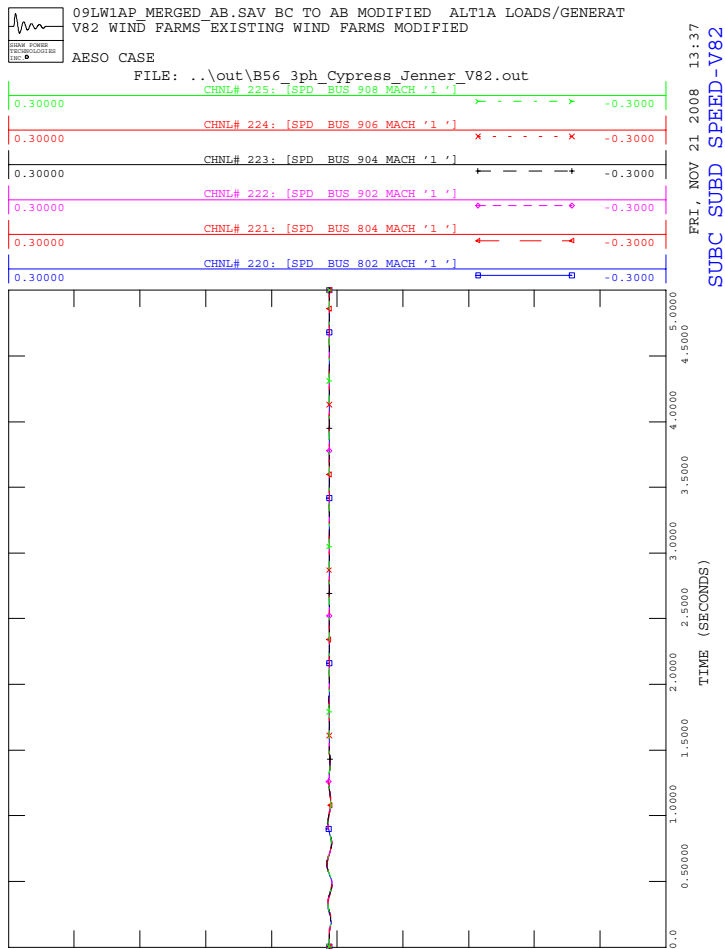
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AB_BC_TIE_FLOWS-V82

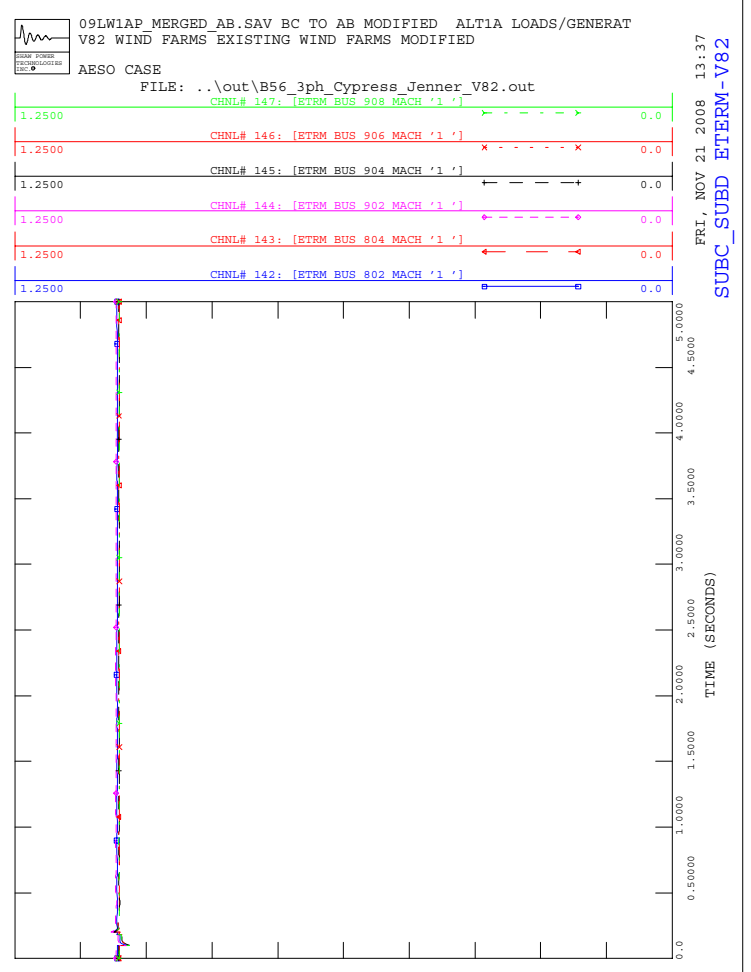
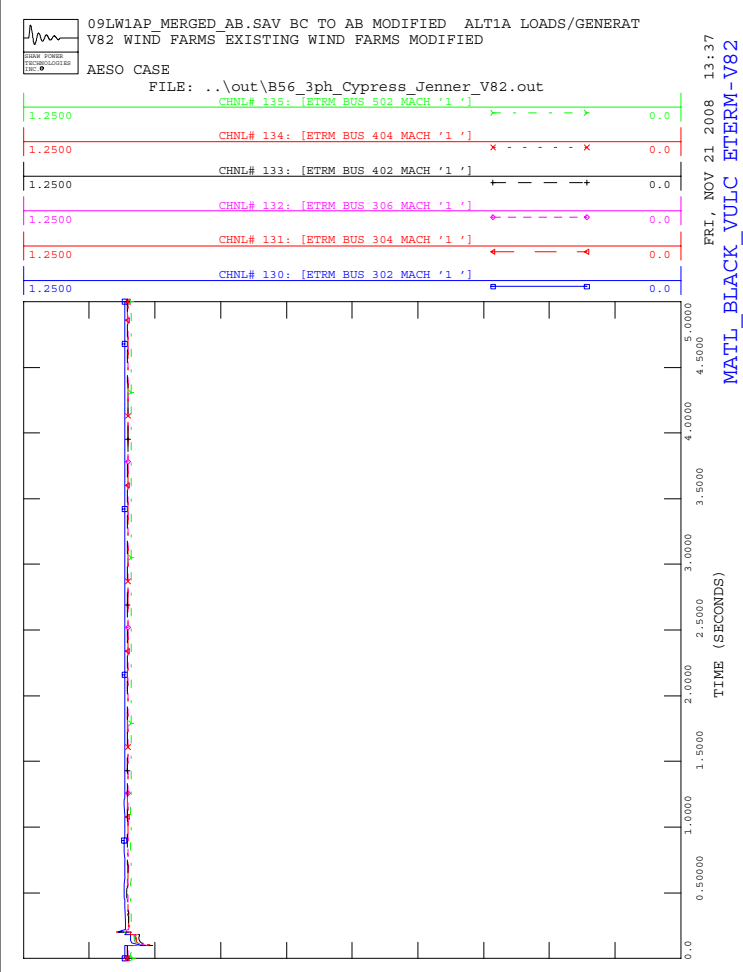
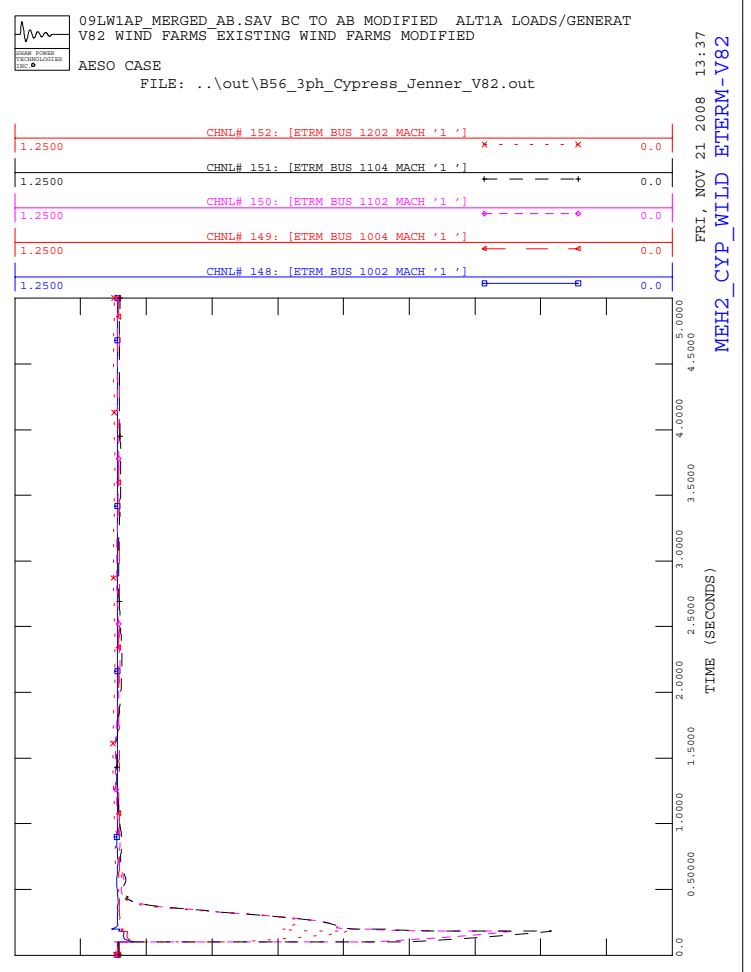
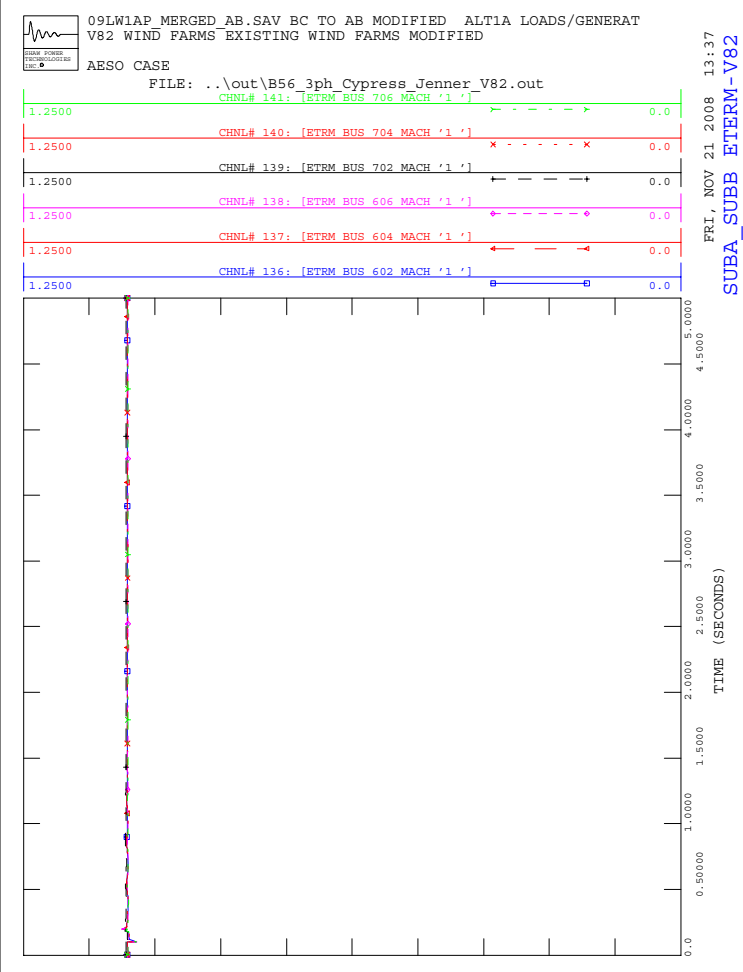


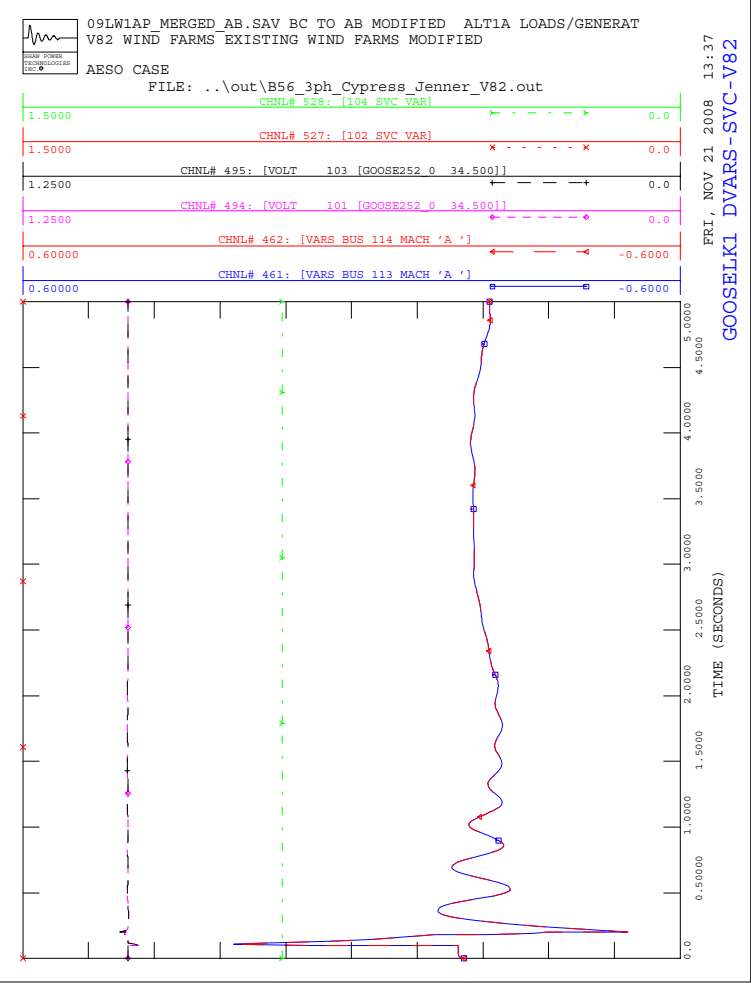
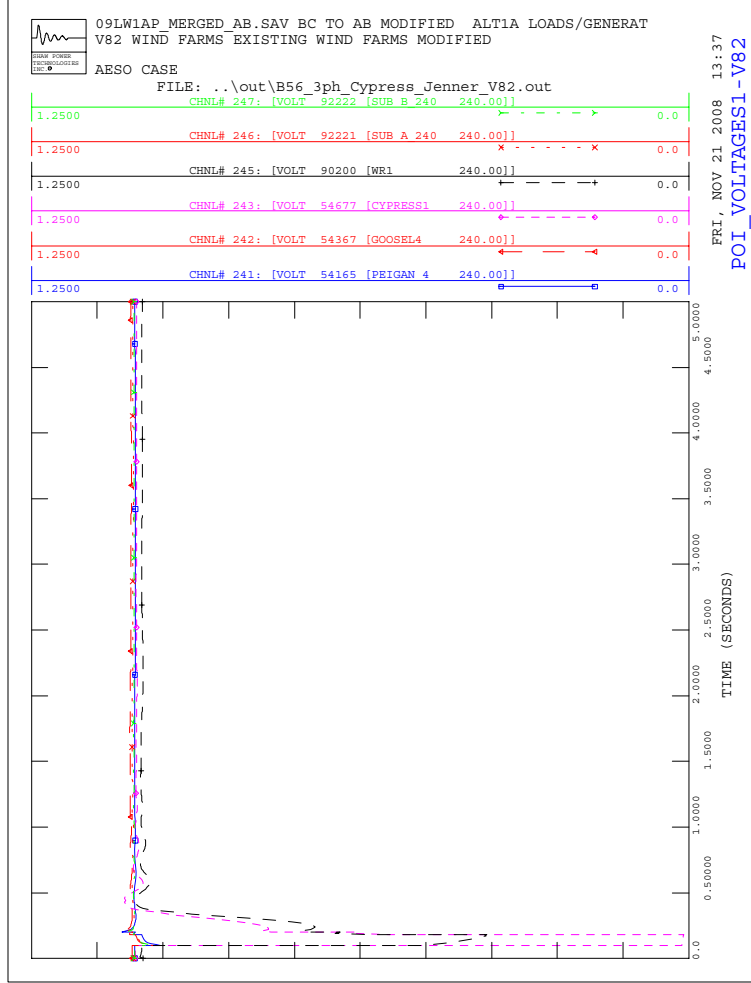
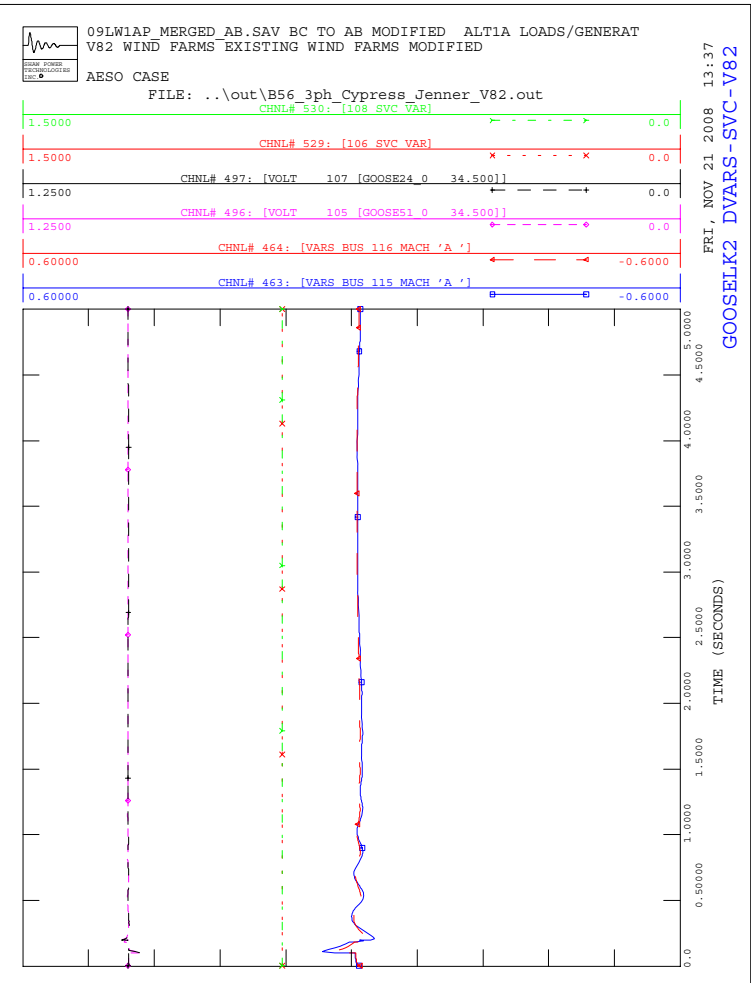
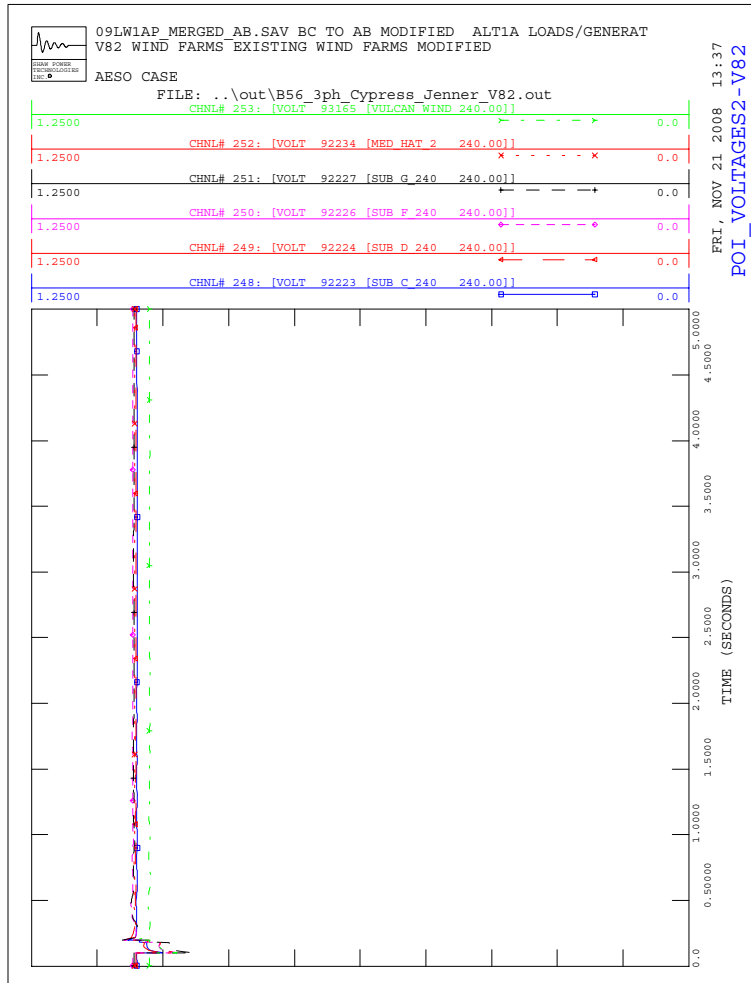


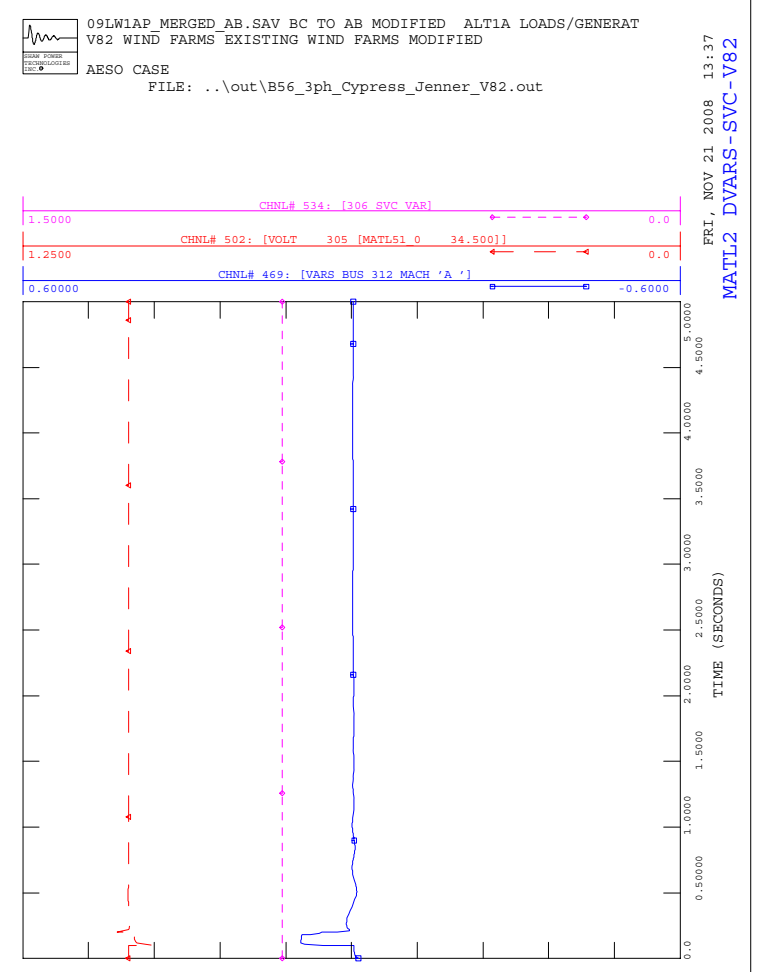
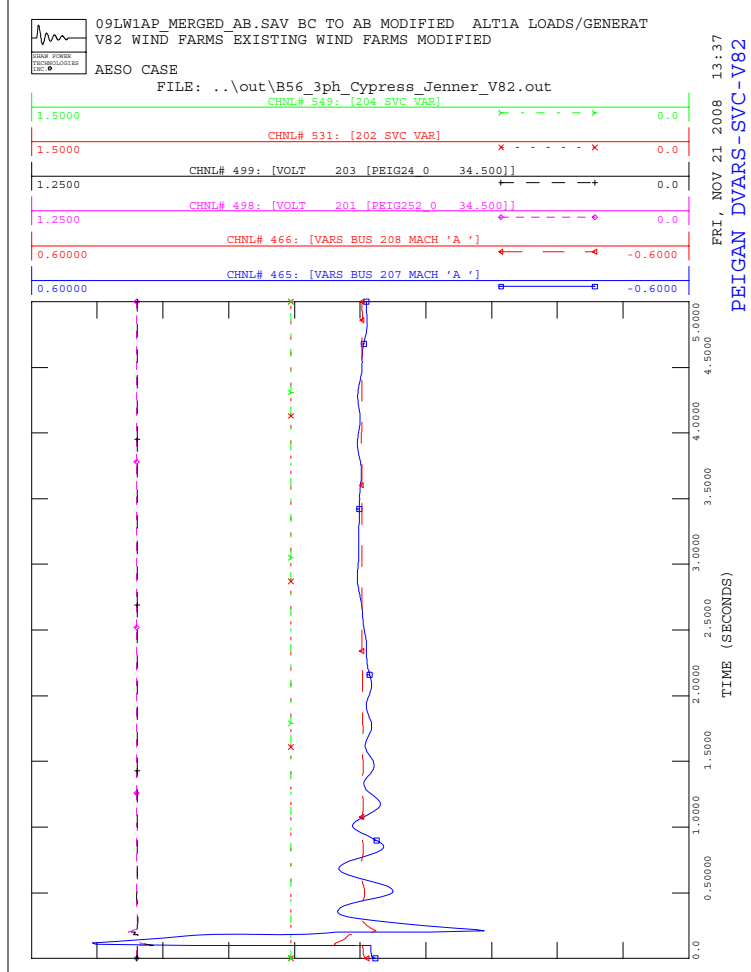
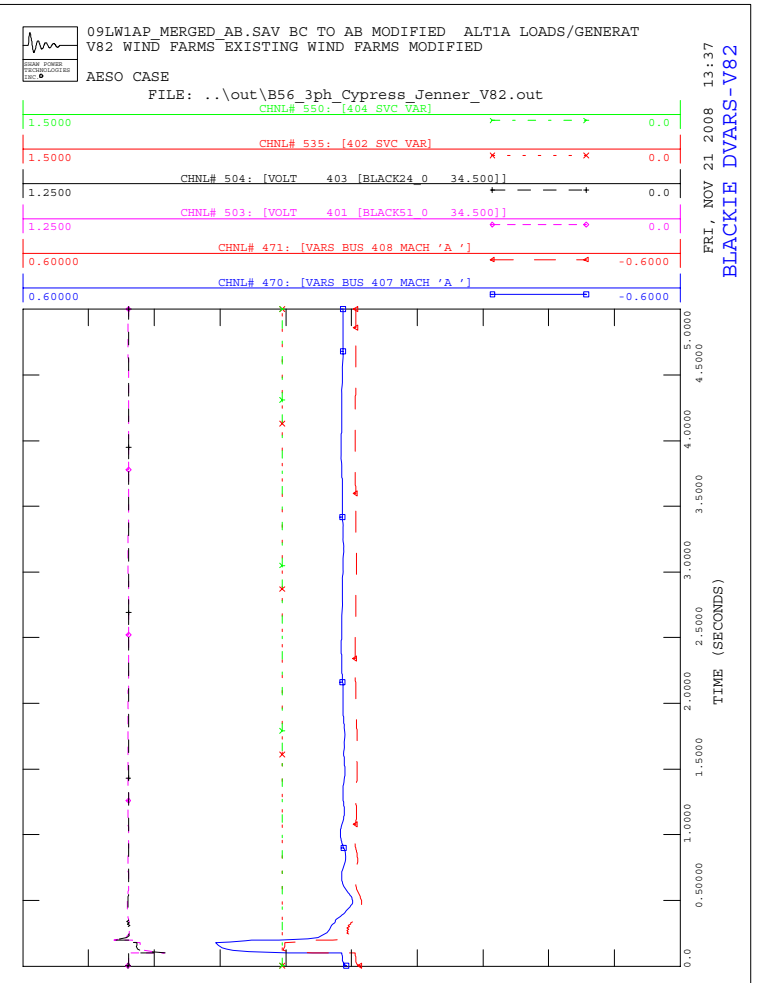
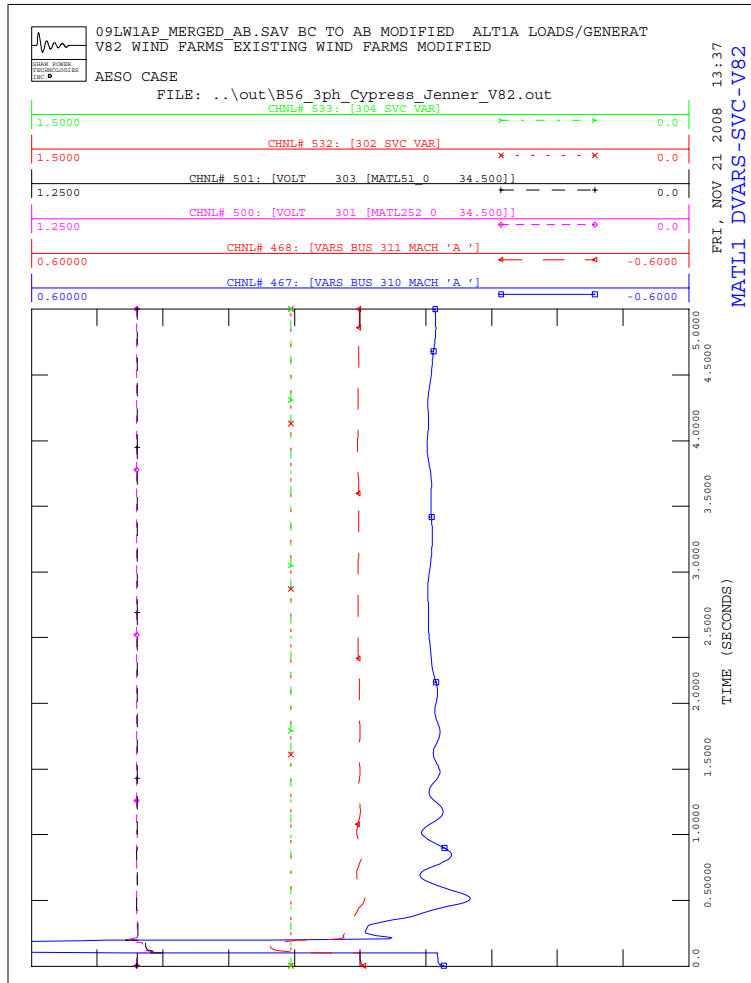


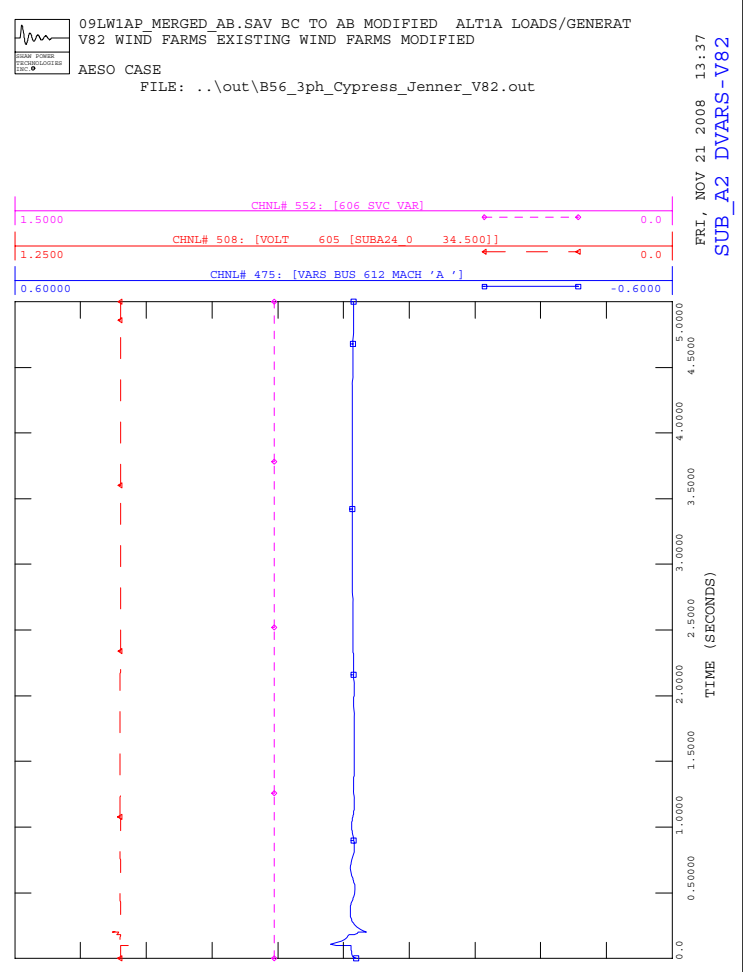
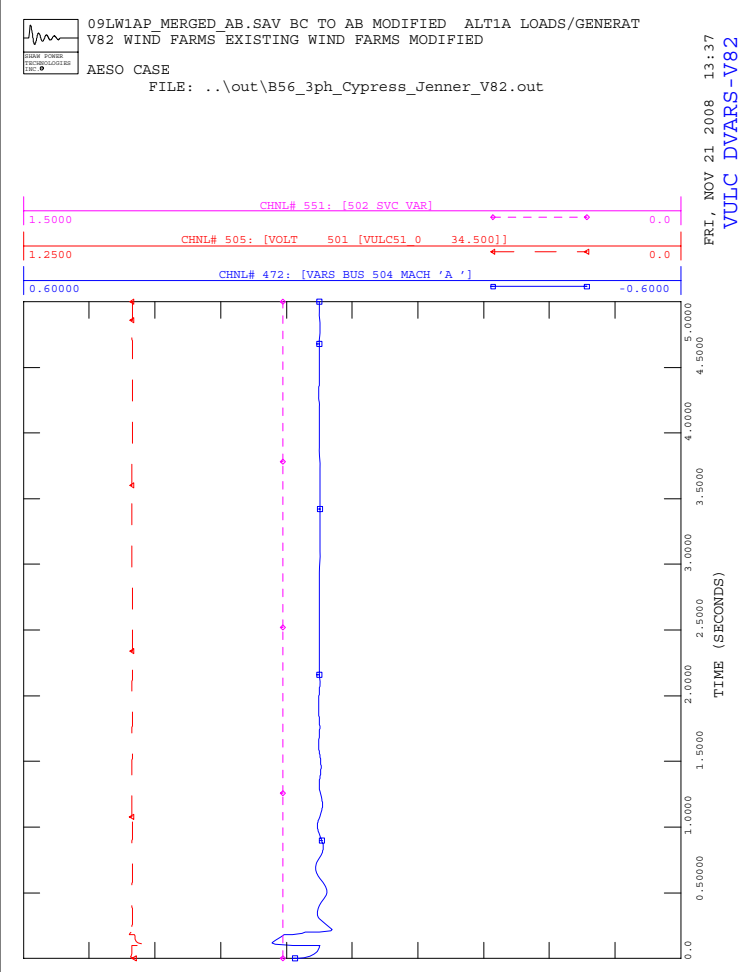
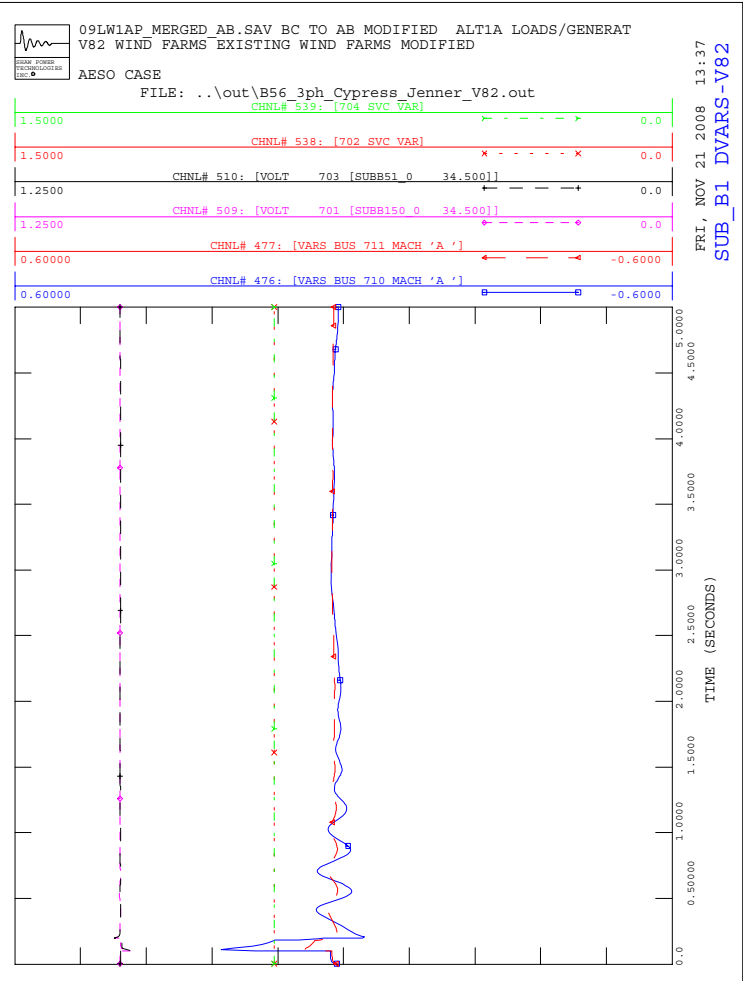
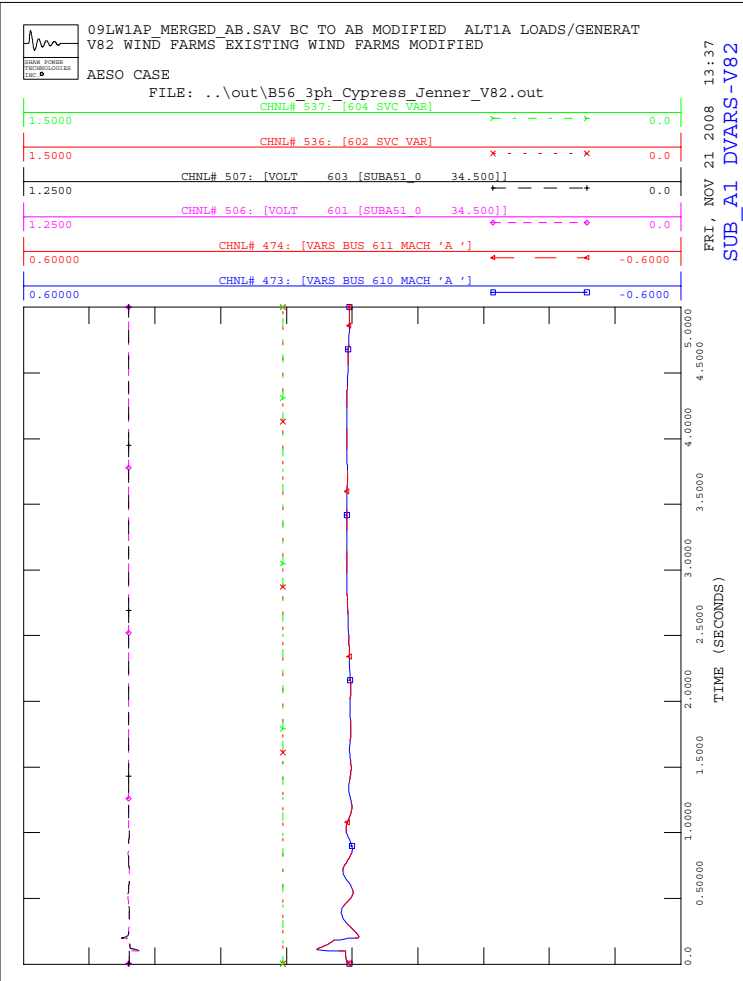


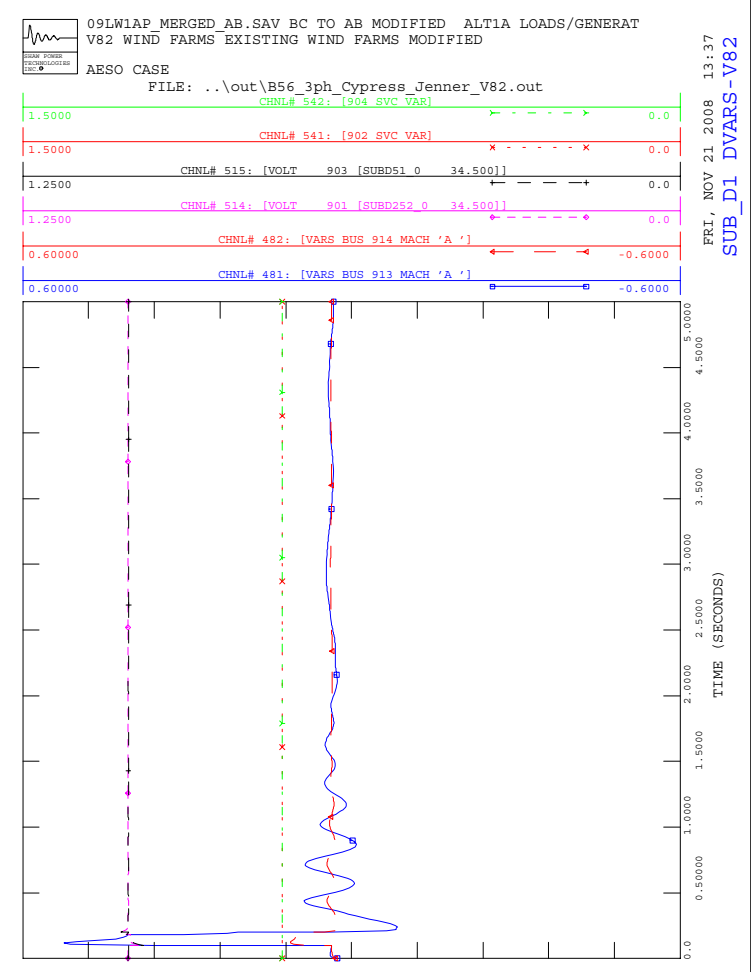
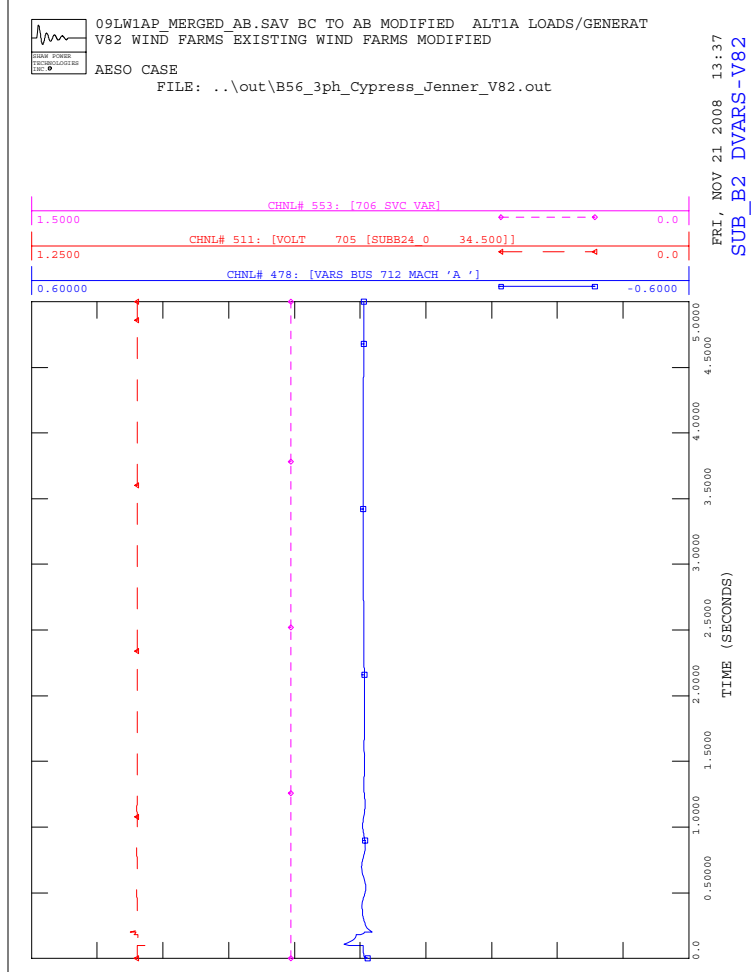
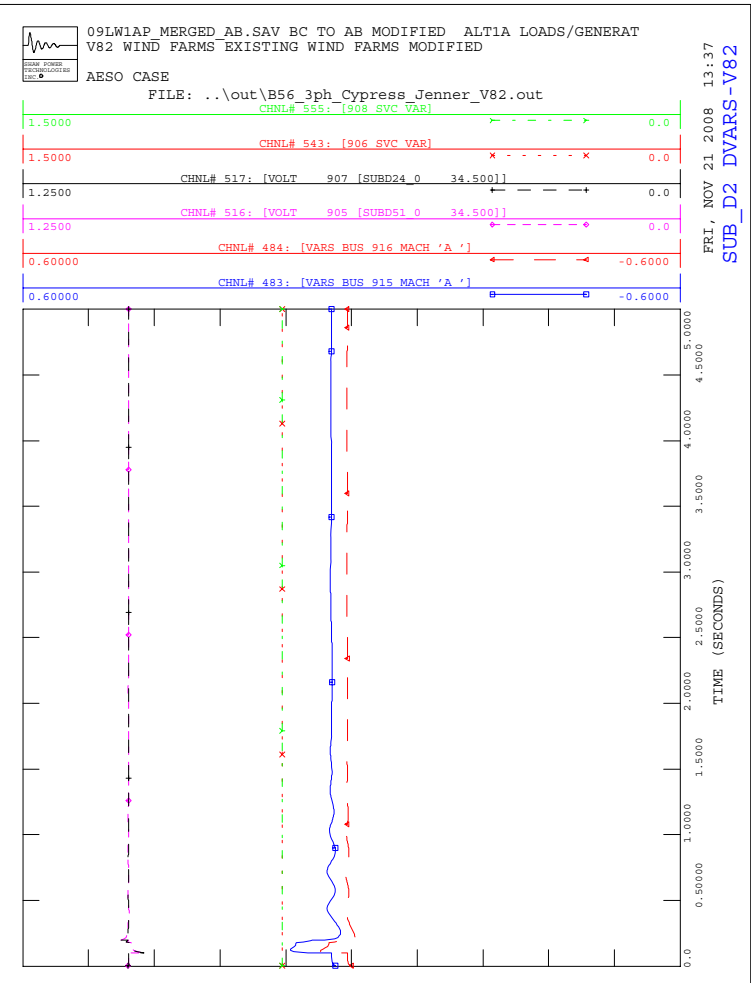
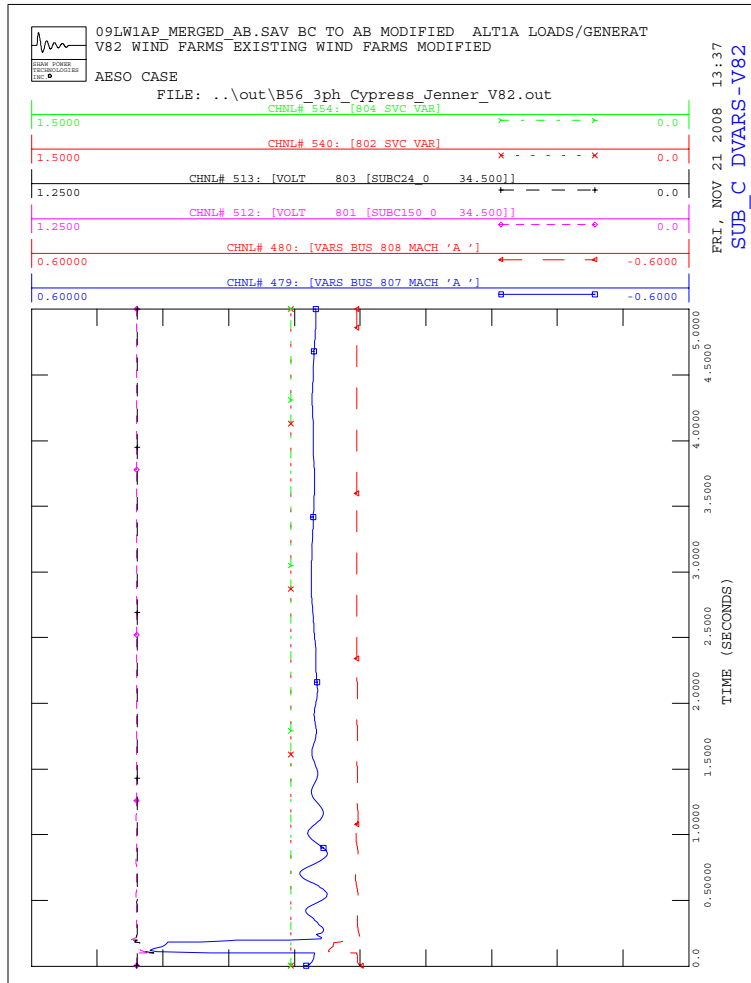


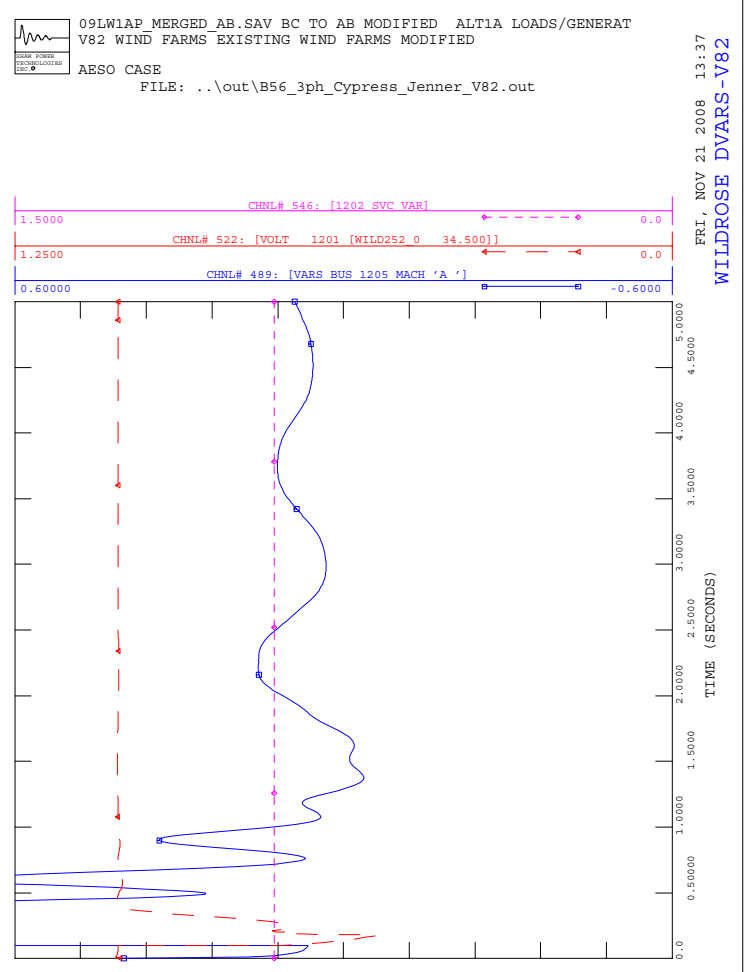
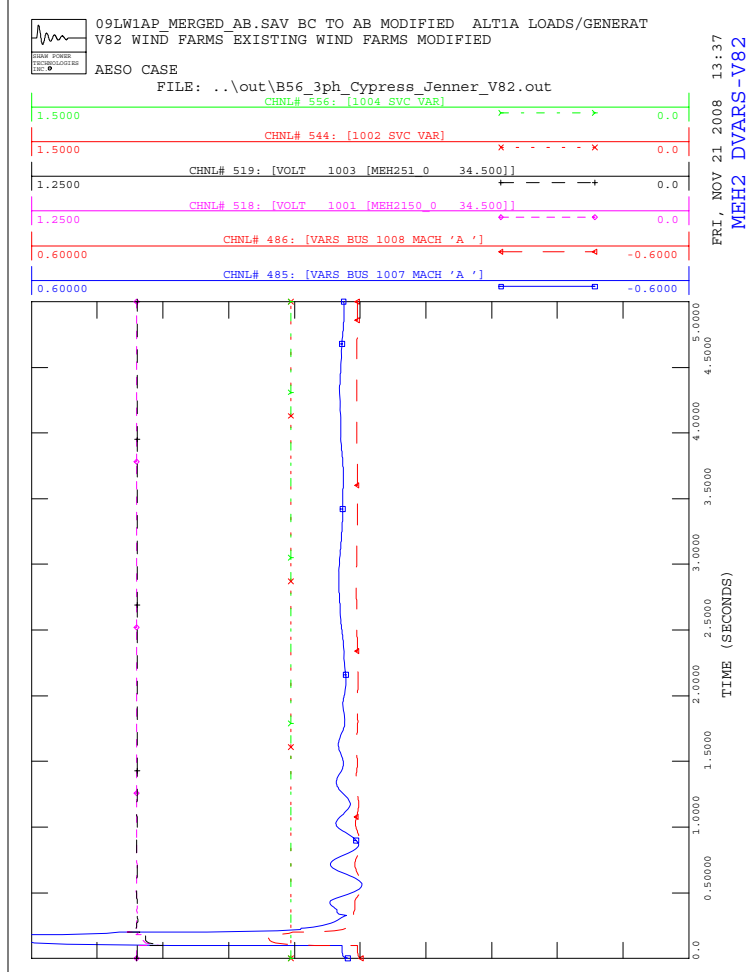
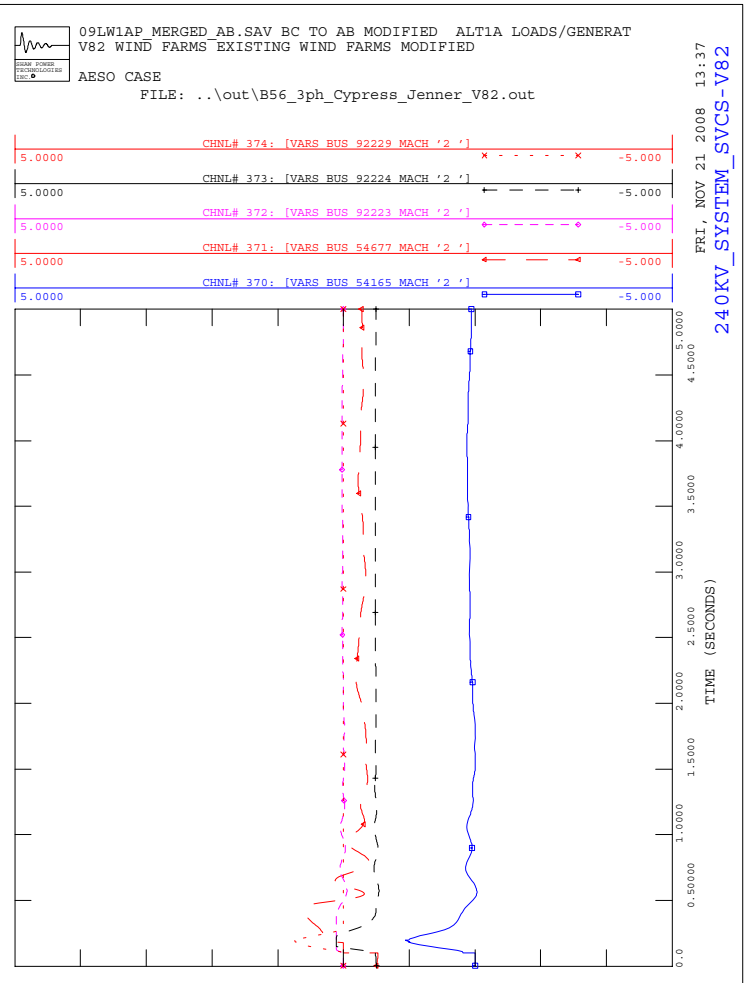
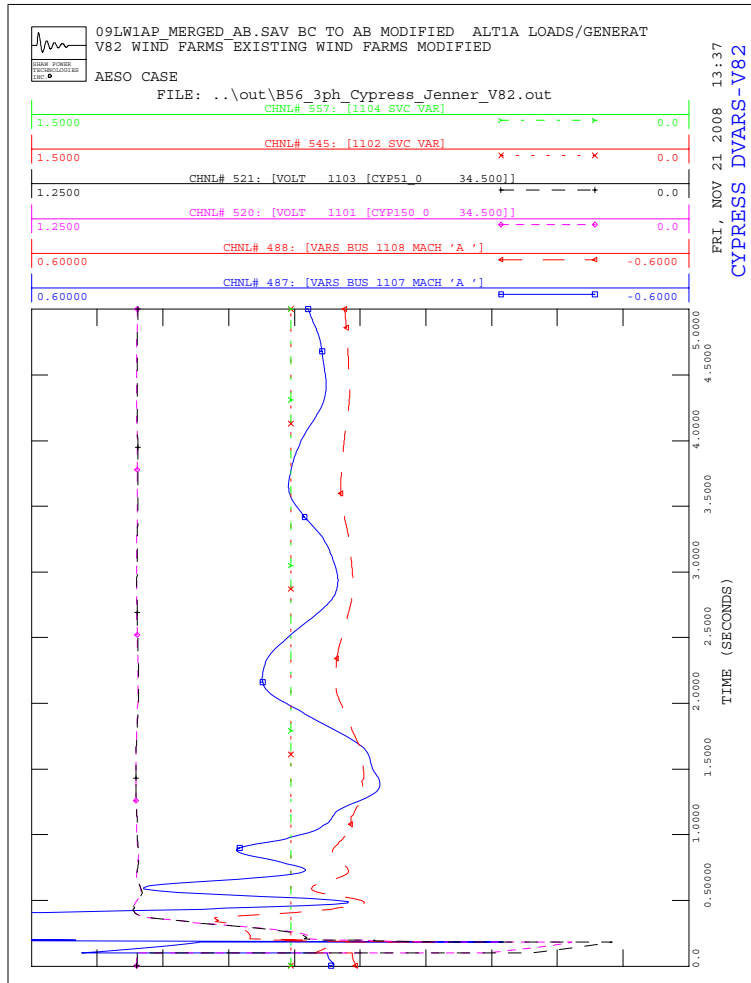






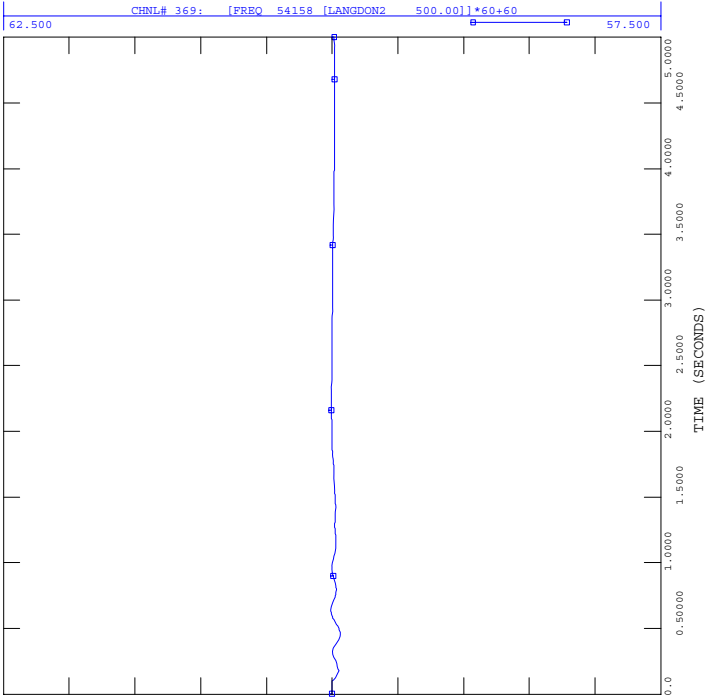






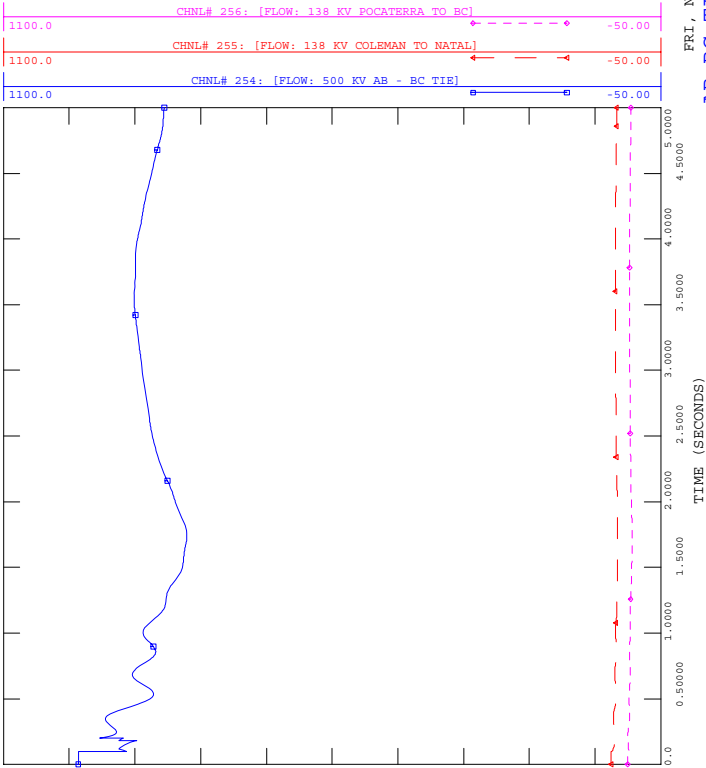
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B56_3ph_Cypress_Jenner_V82.out

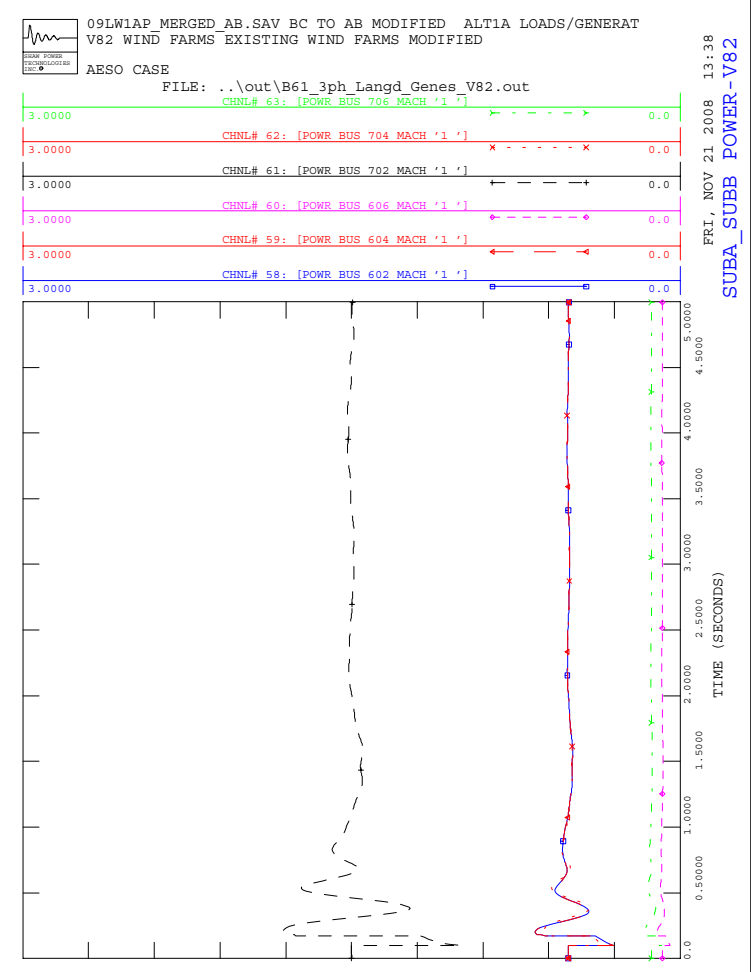
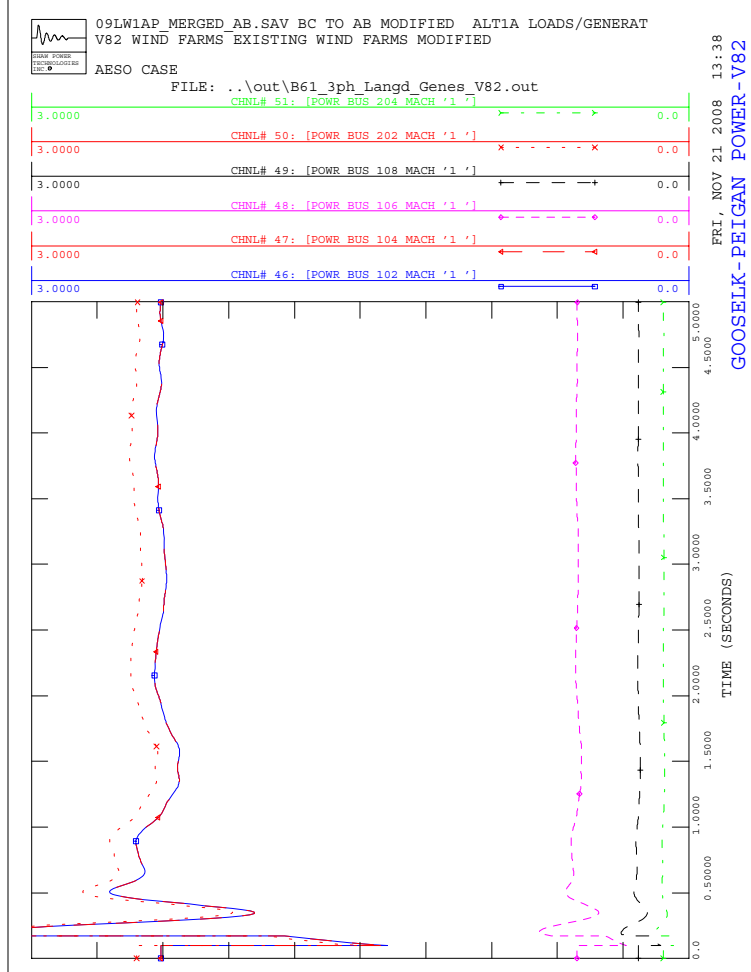
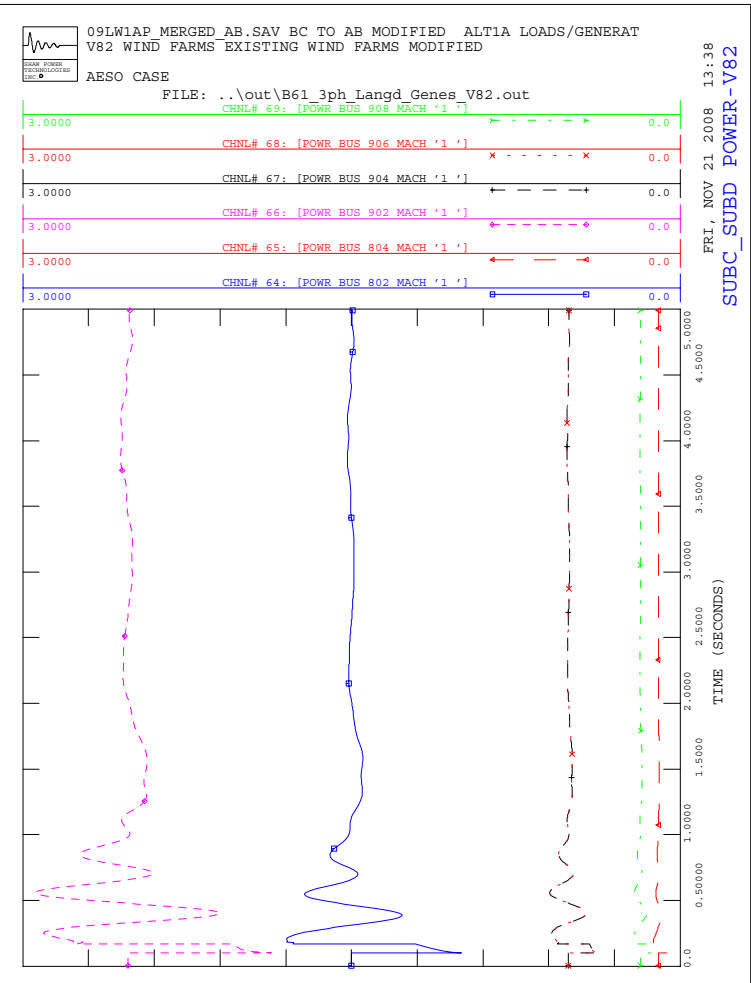
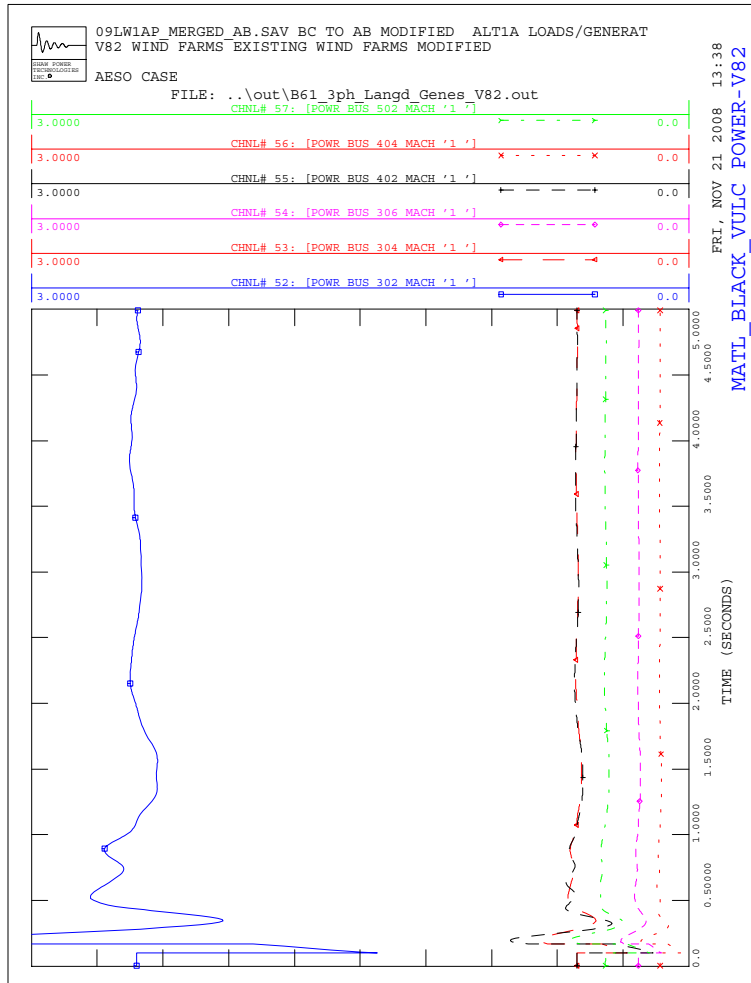
FRI, NOV 21 2008 13:37
LANGDON_FRQ-V82

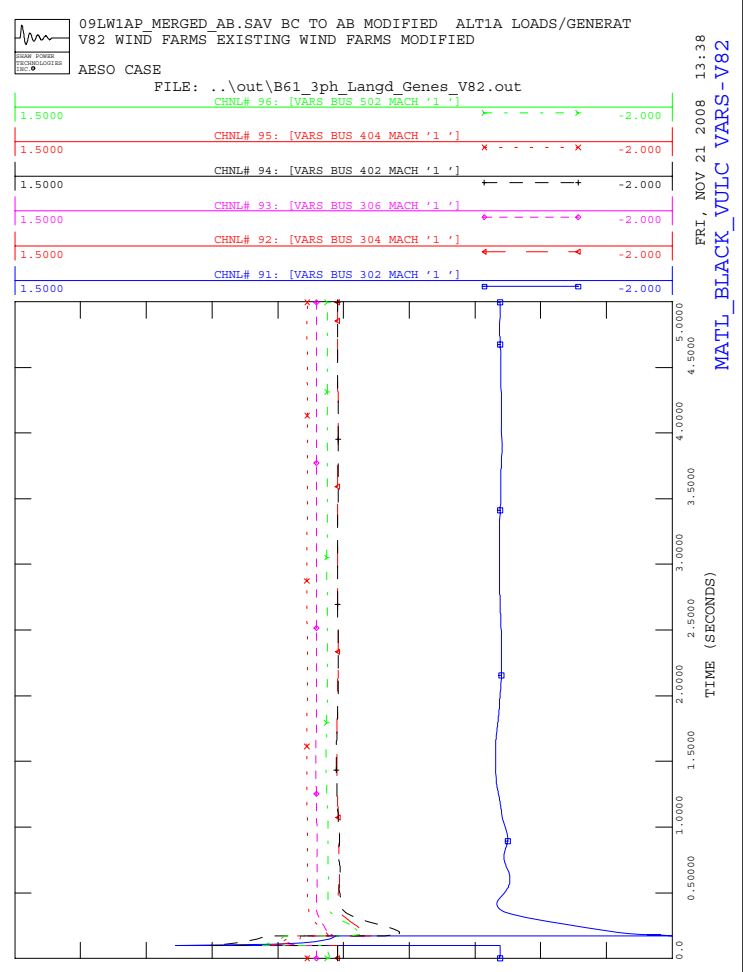
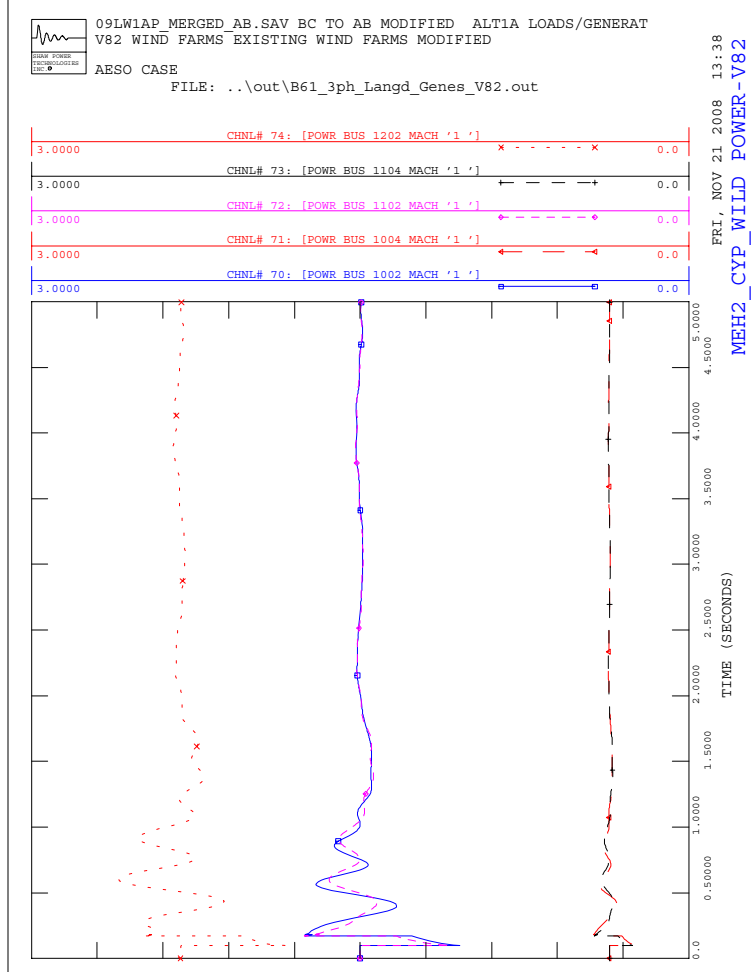
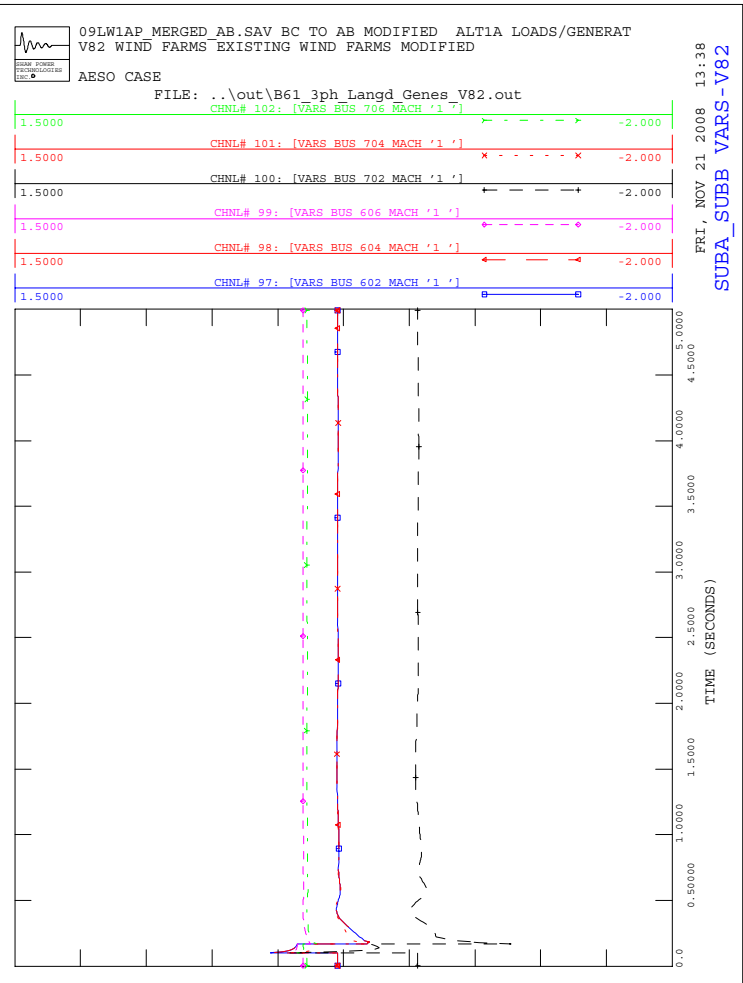
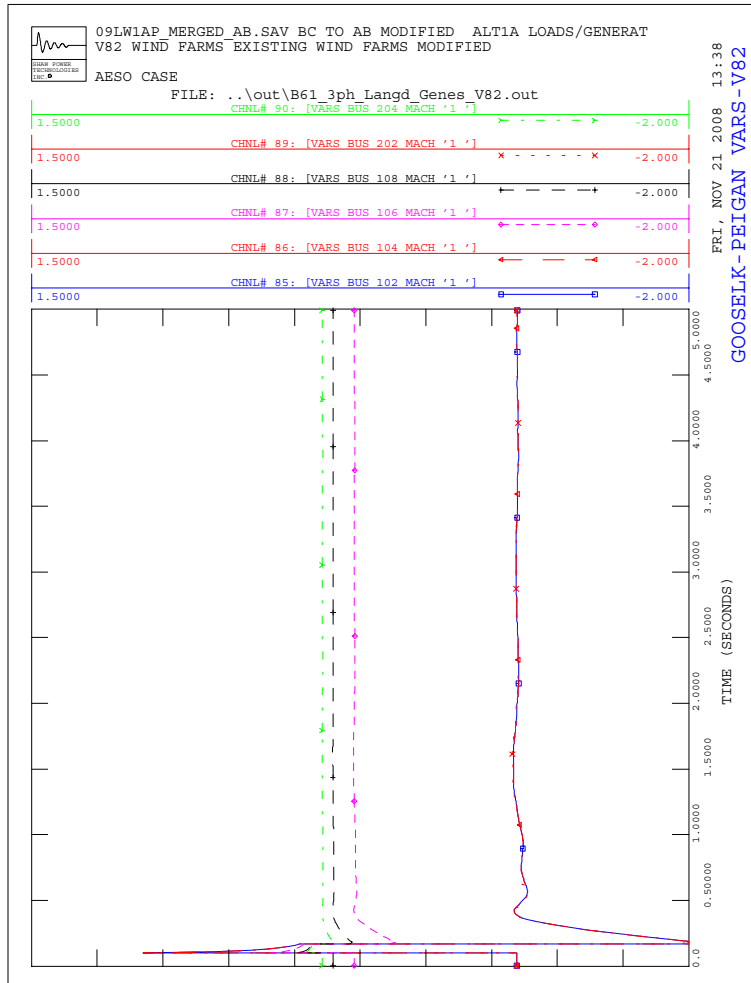


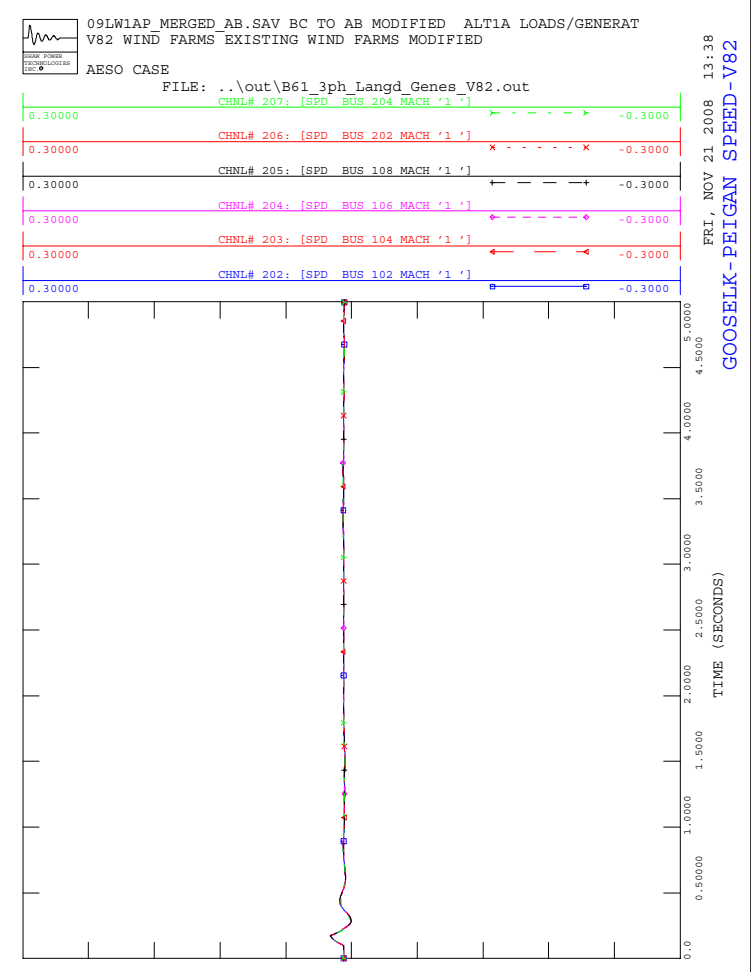
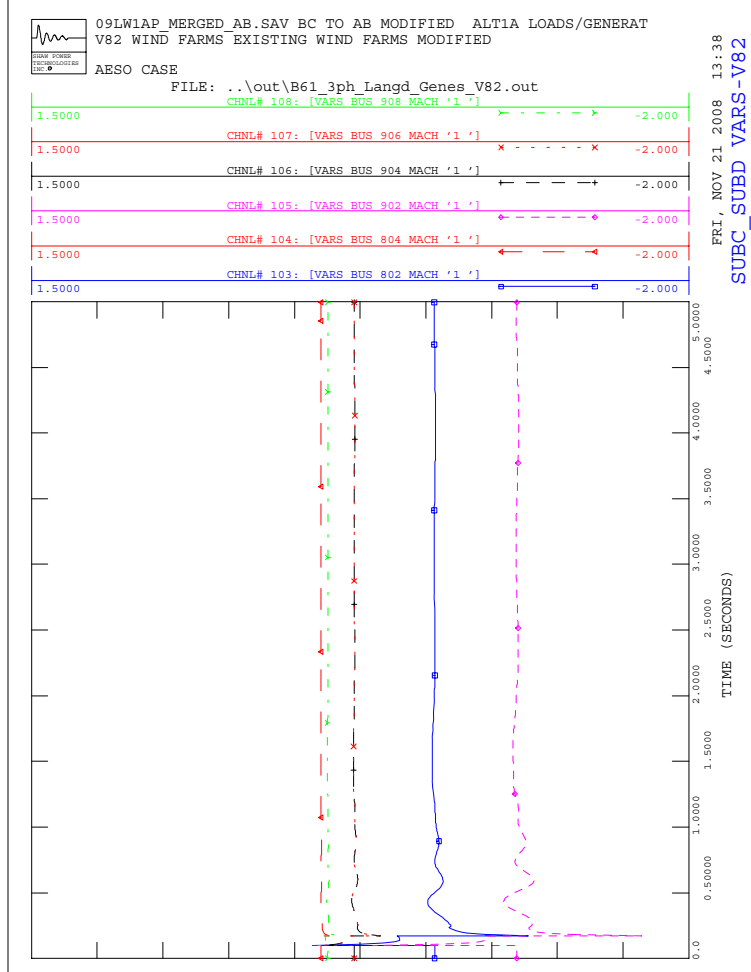
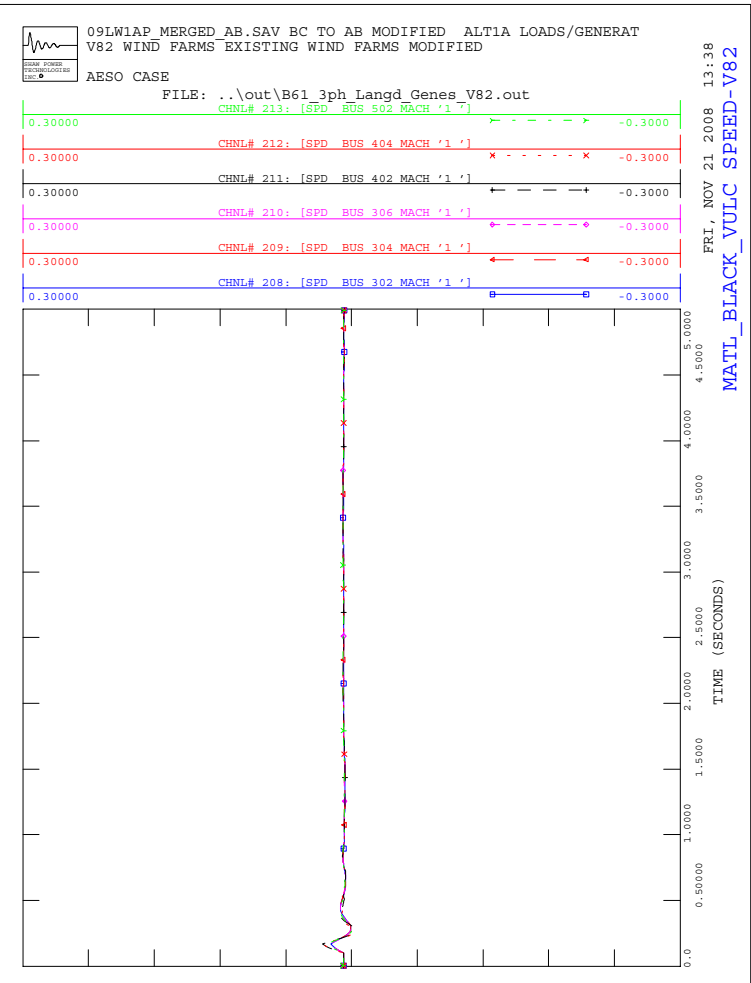
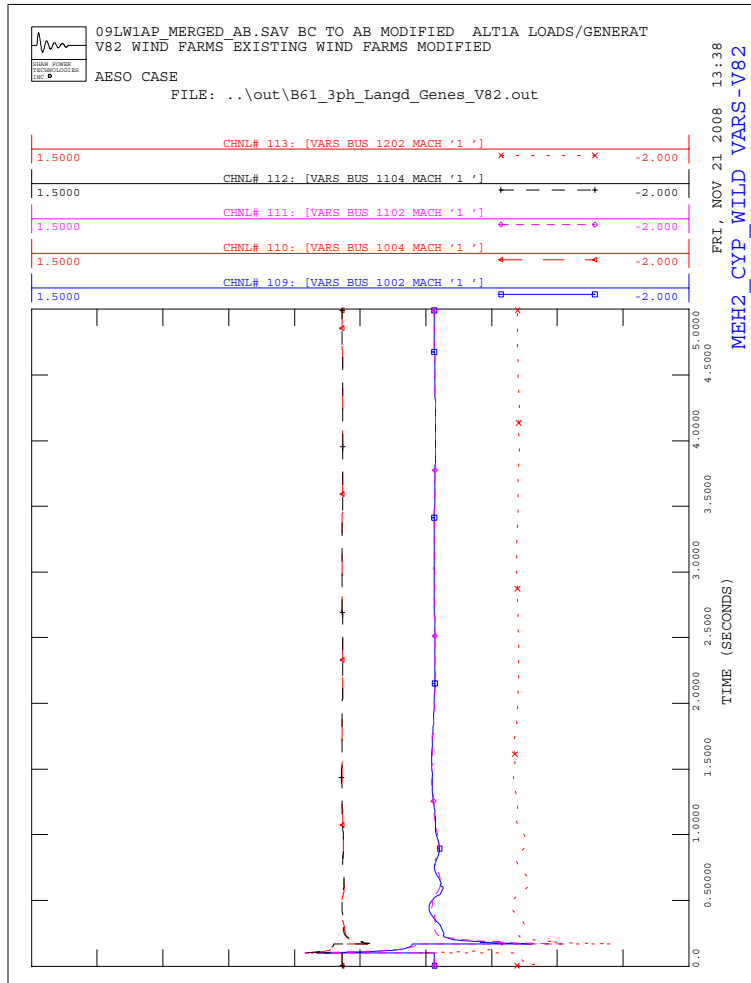
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\B56_3ph_Cypress_Jenner_V82.out

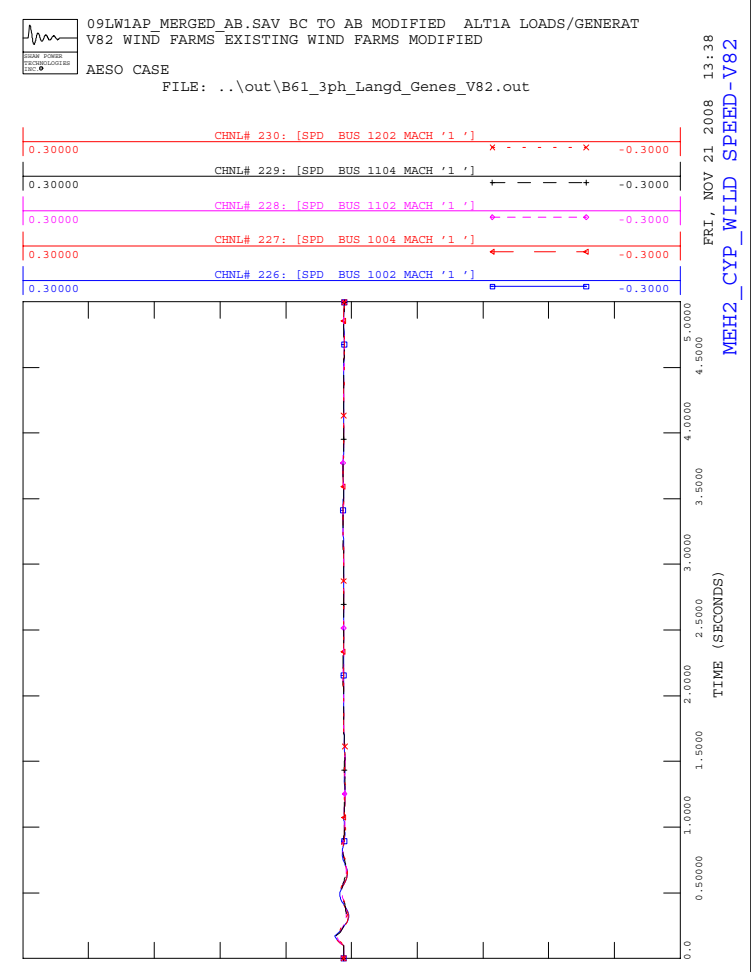
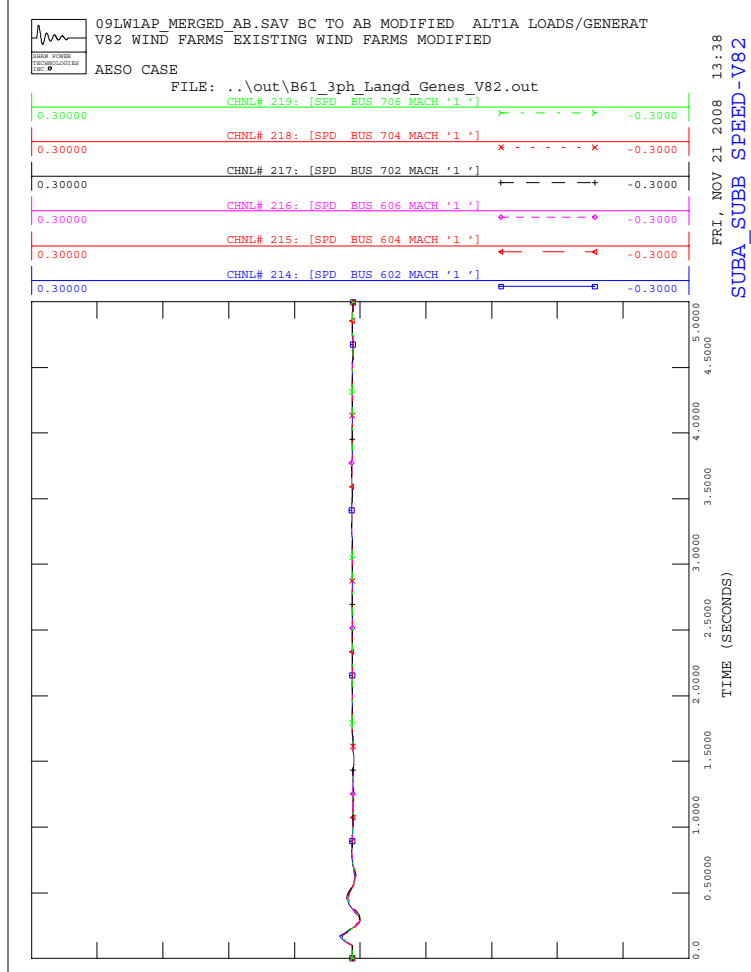
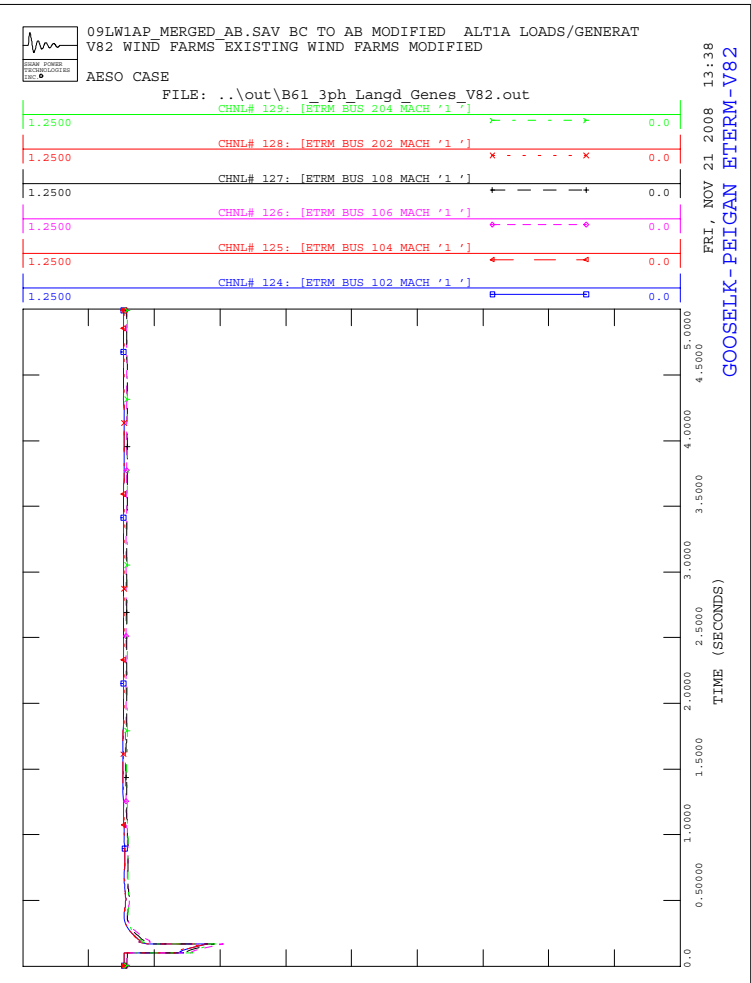
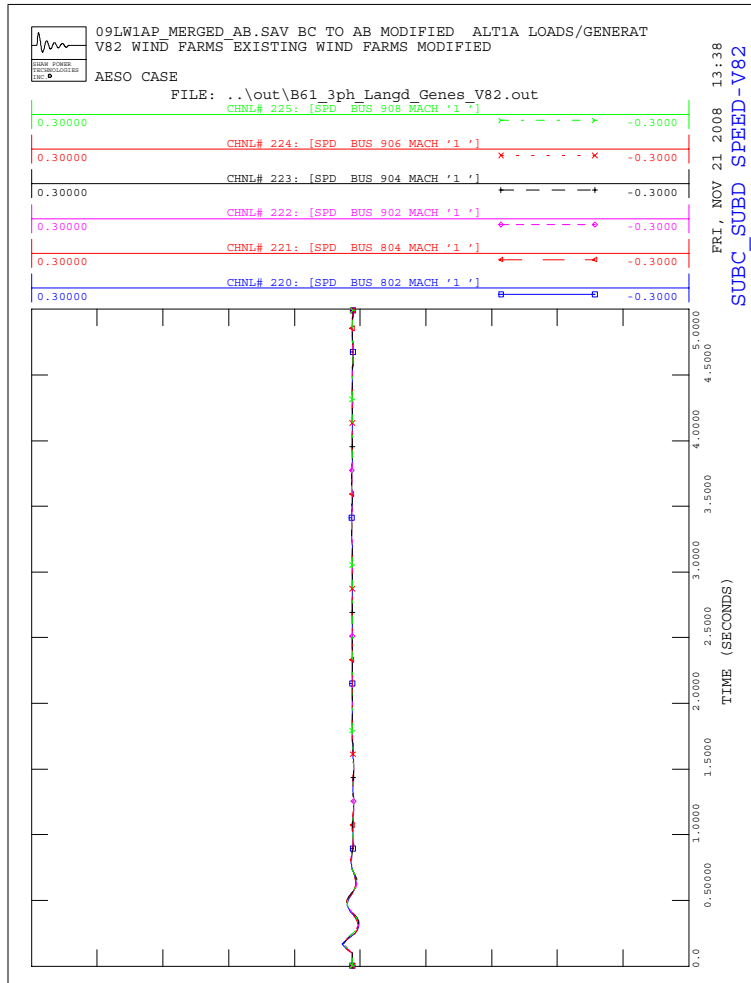
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AB_BC_TIE_FLOWS-V82

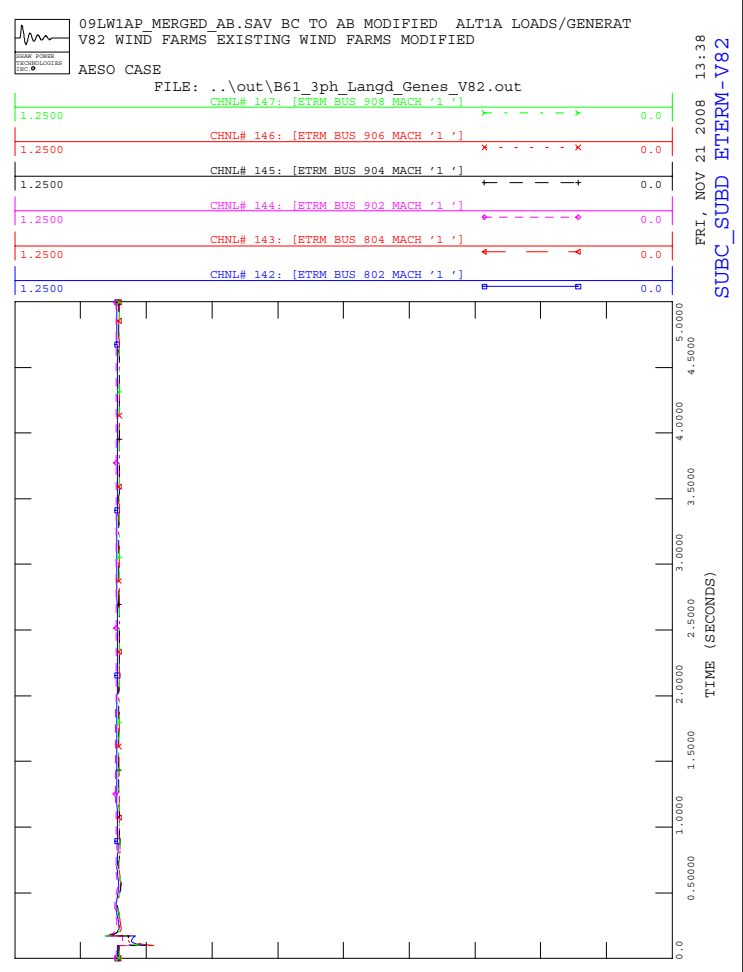
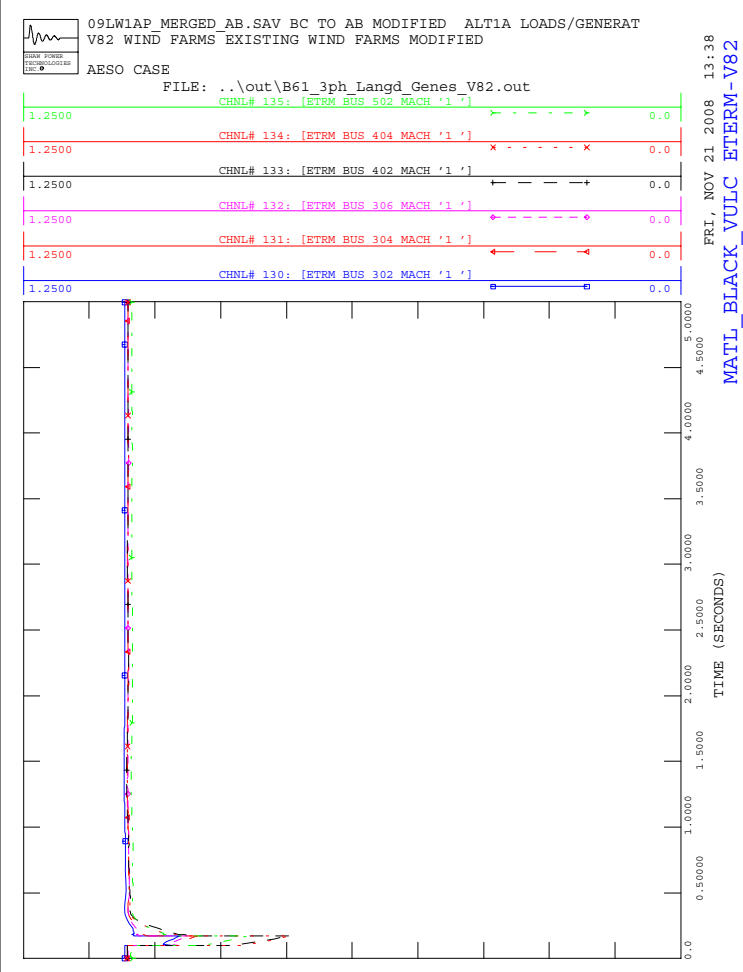
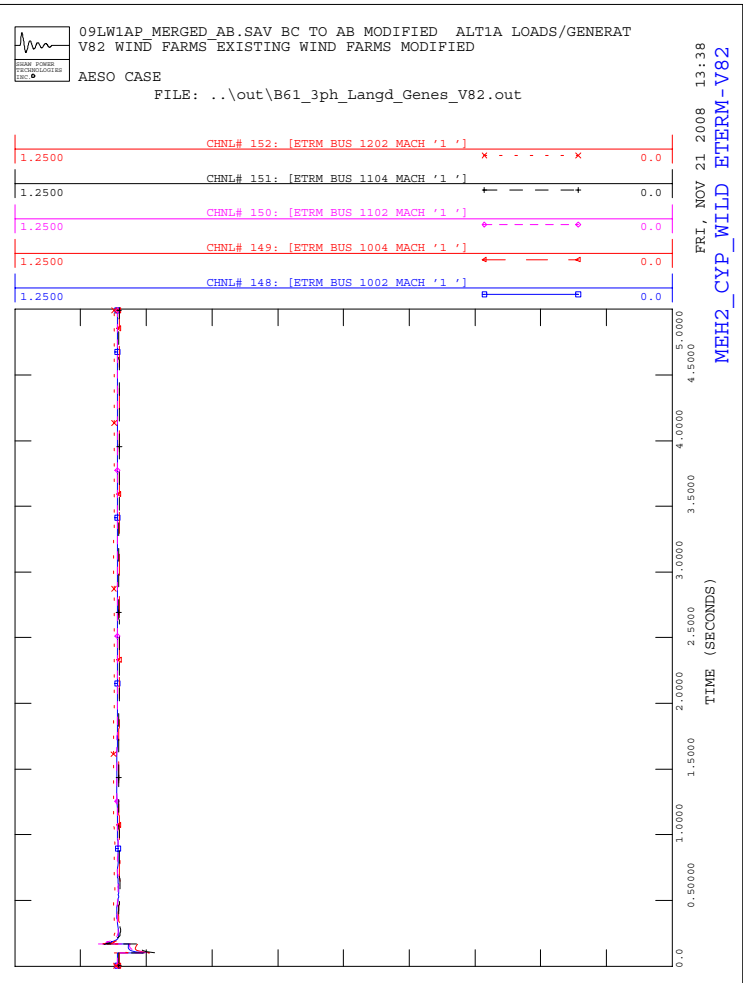
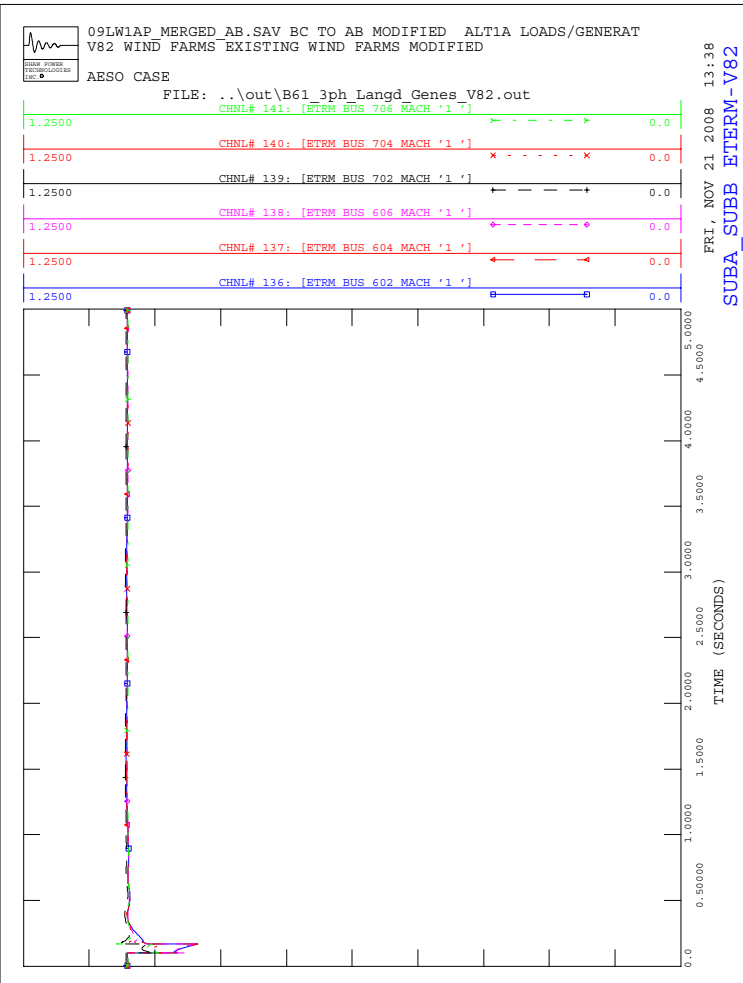


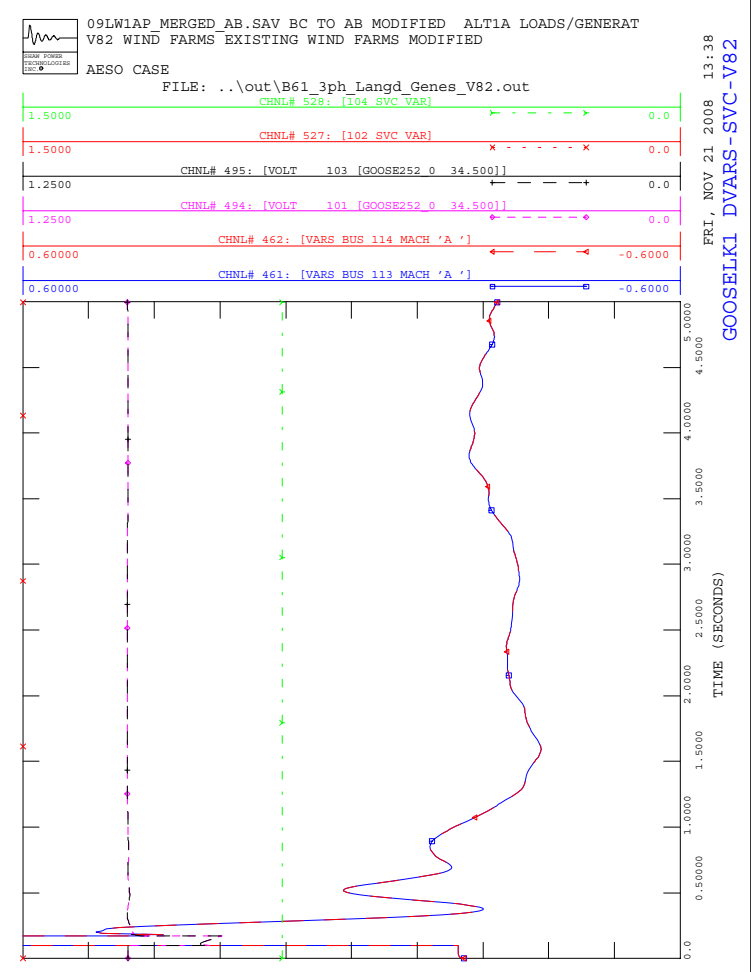
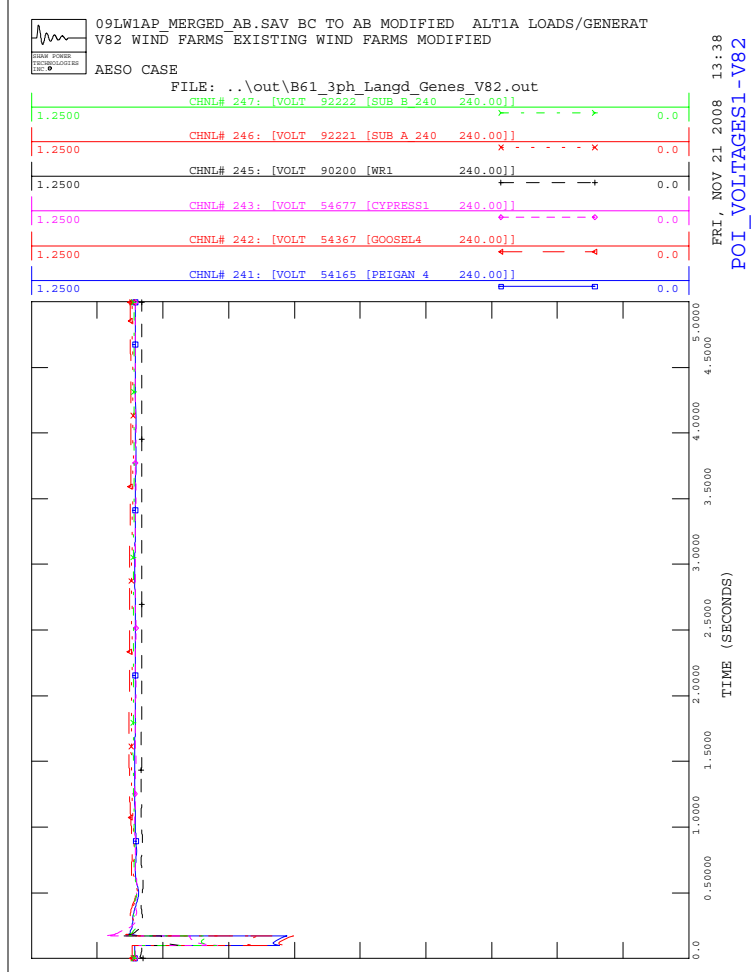
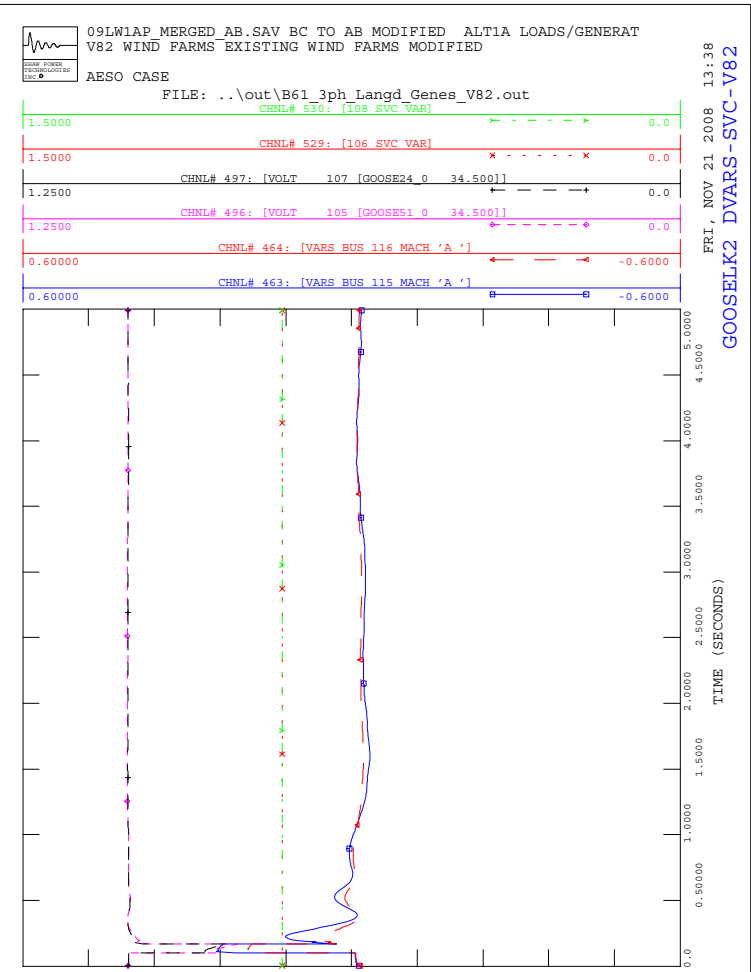
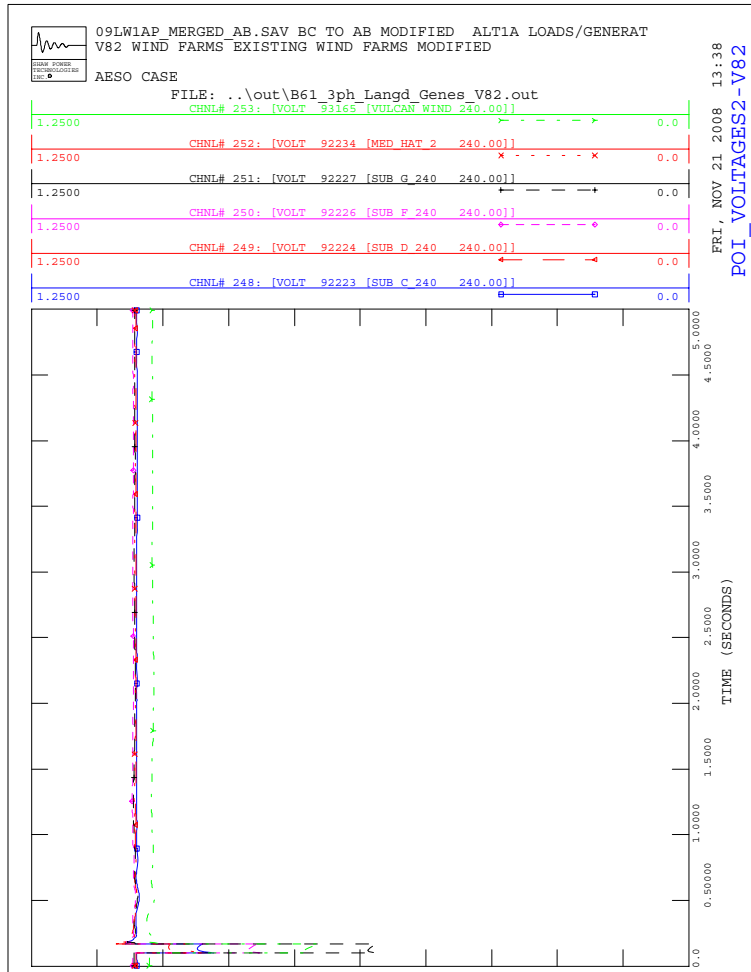


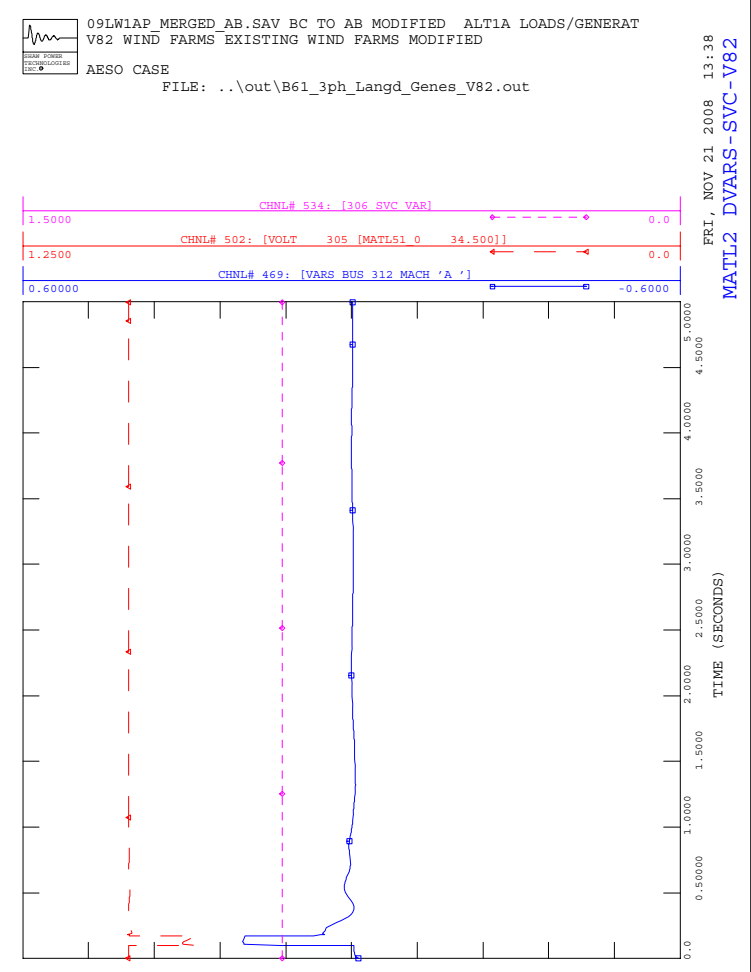
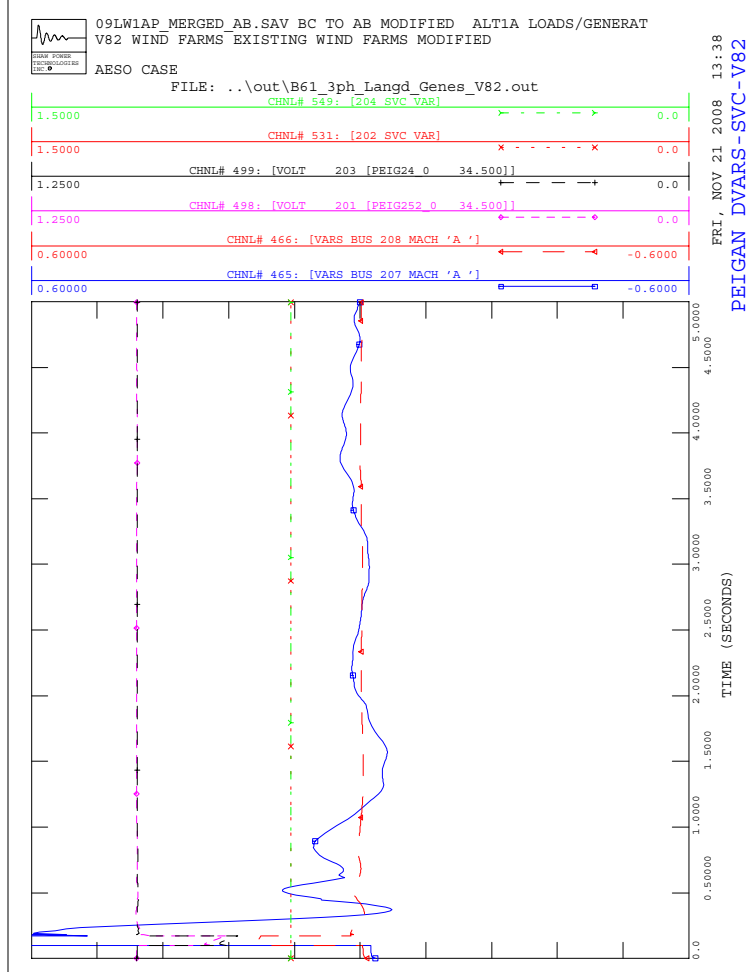
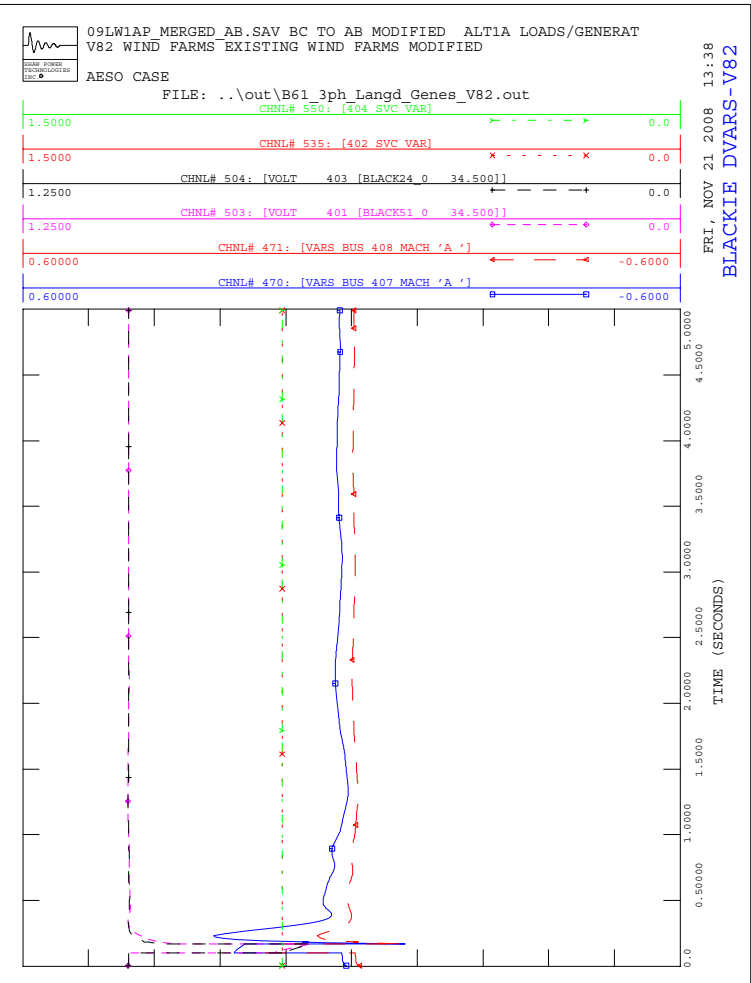
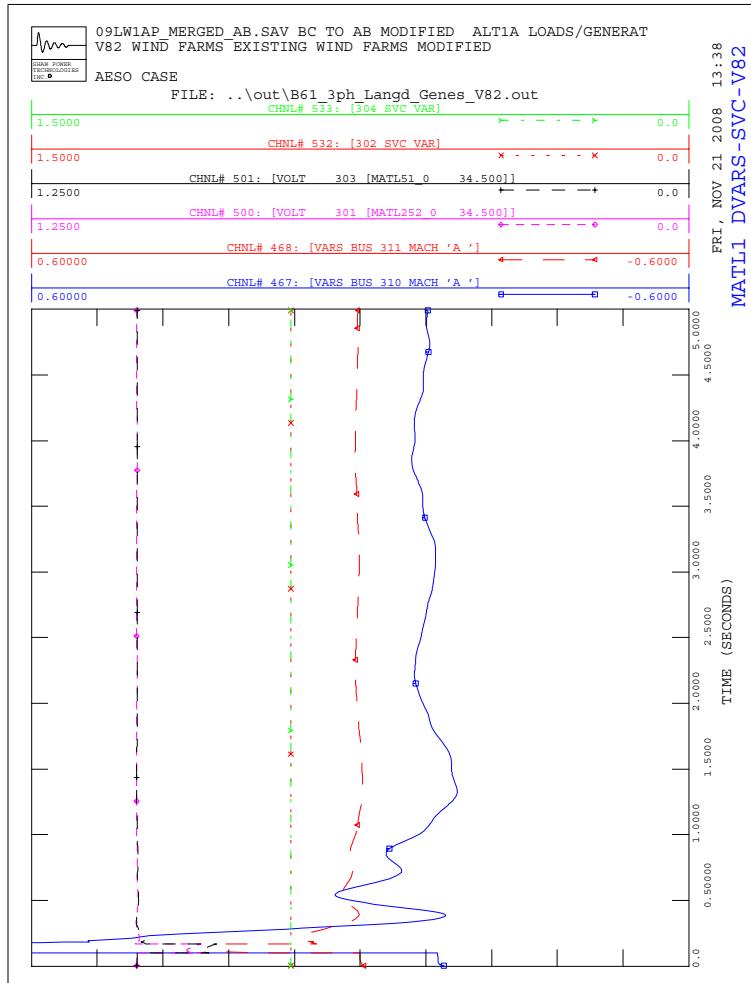


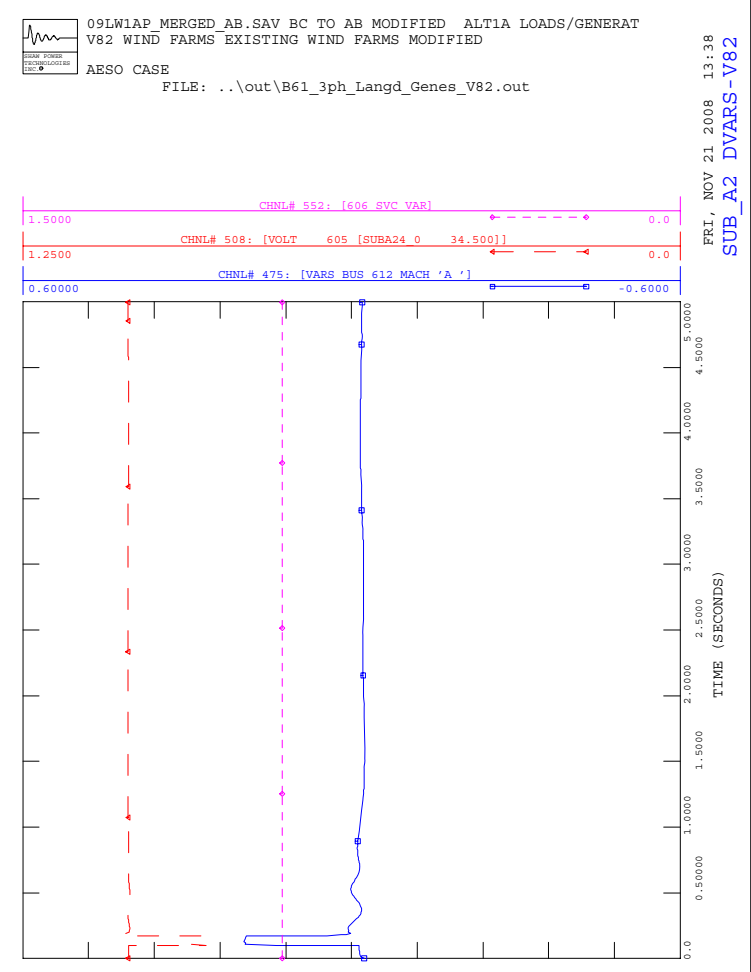
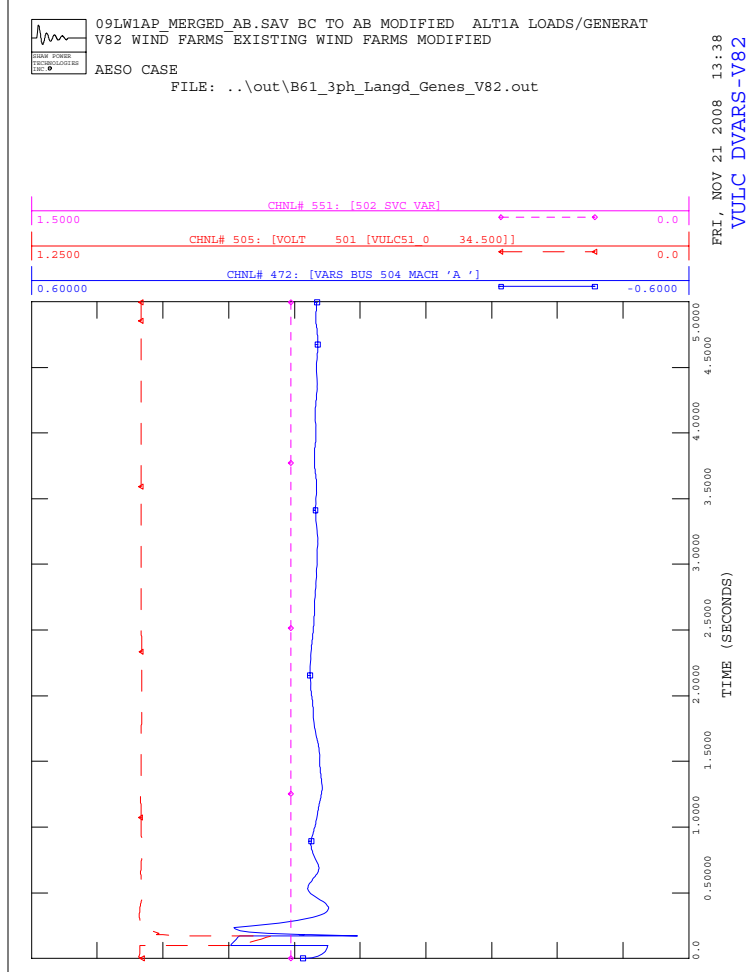
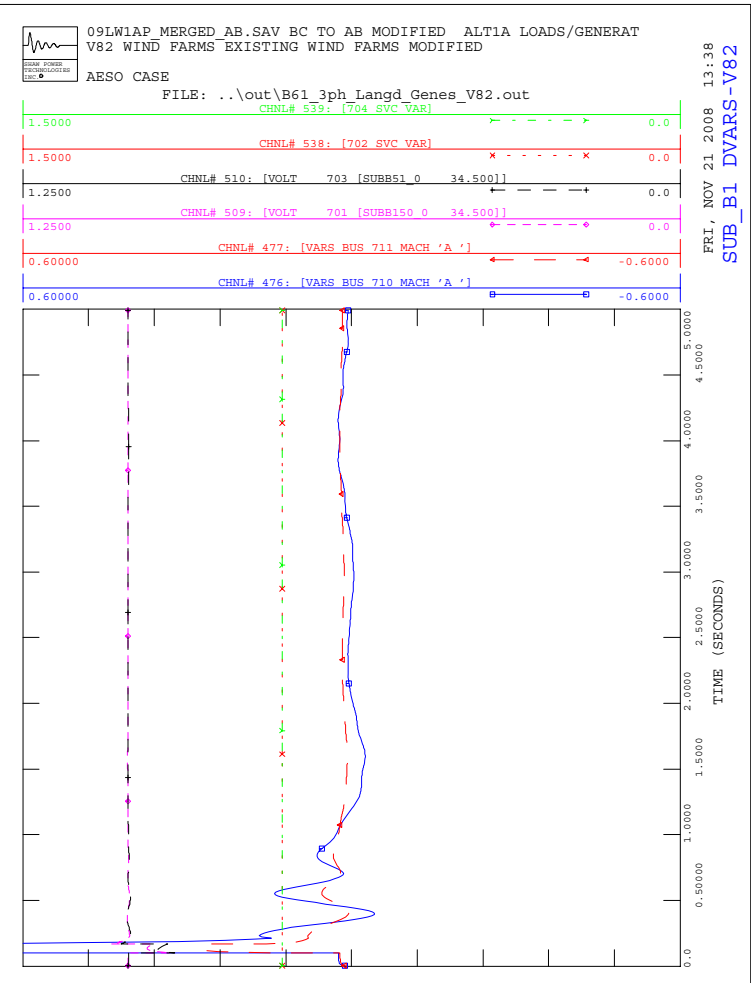
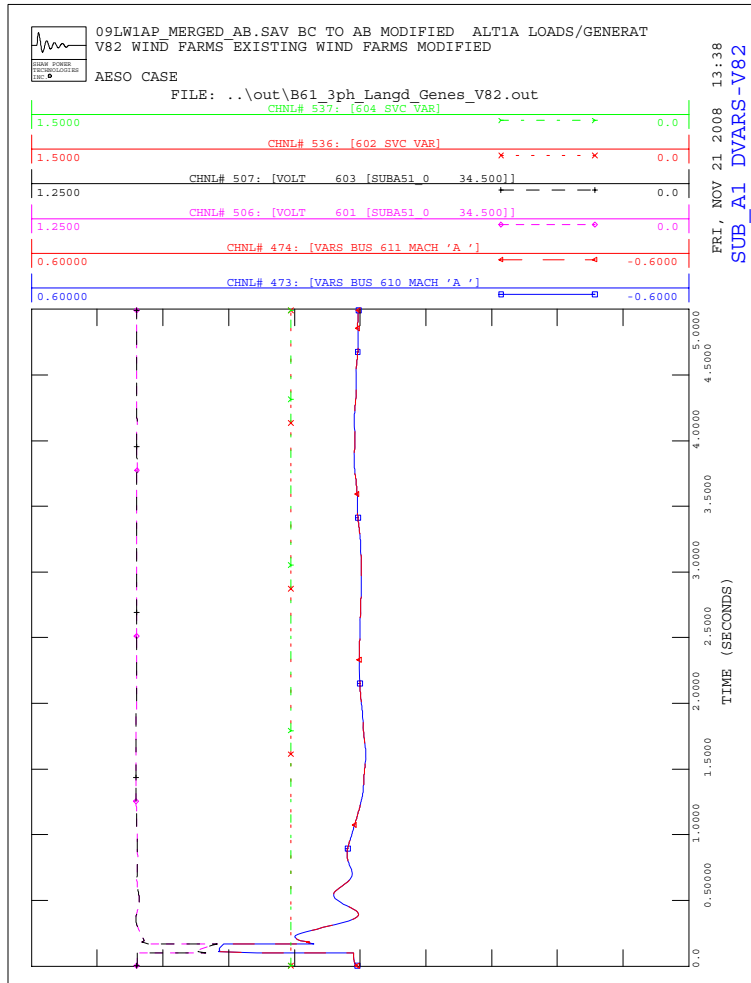


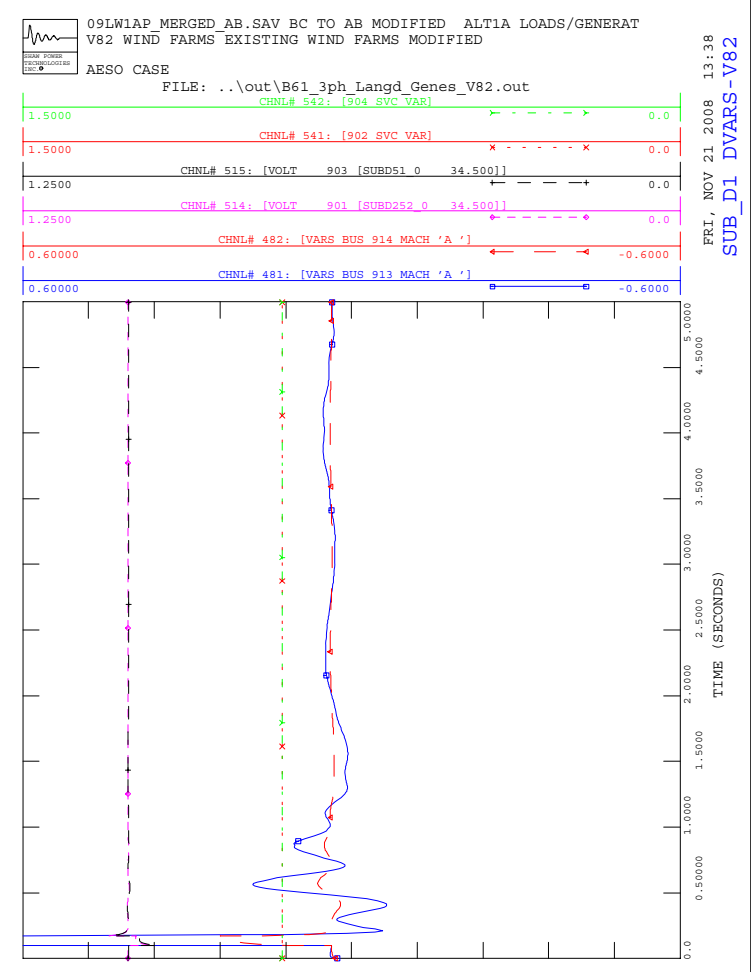
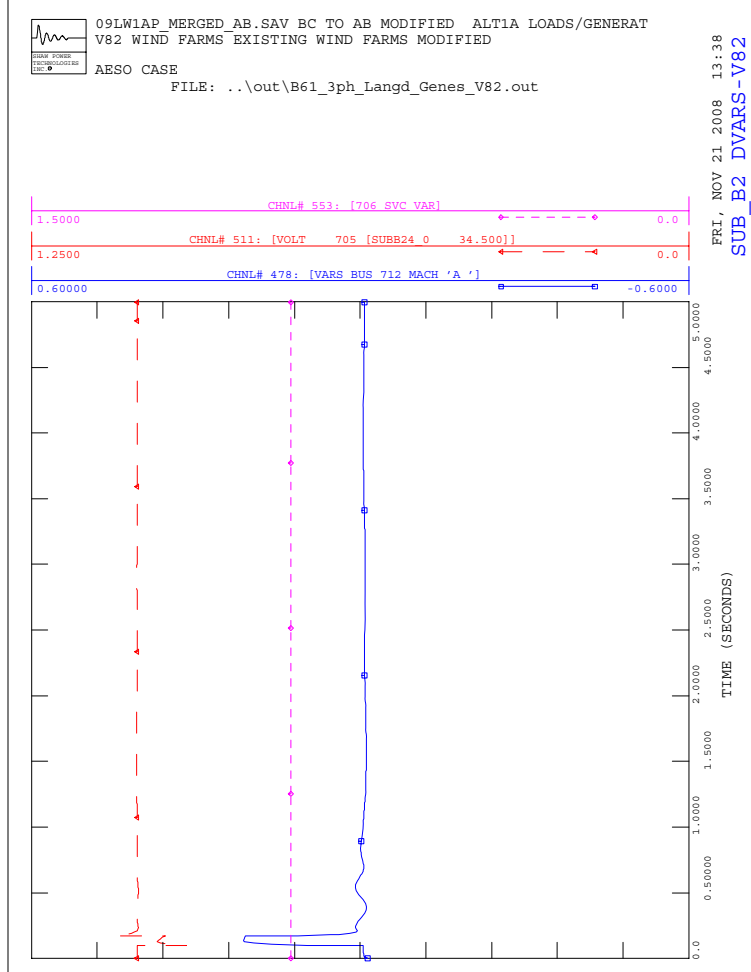
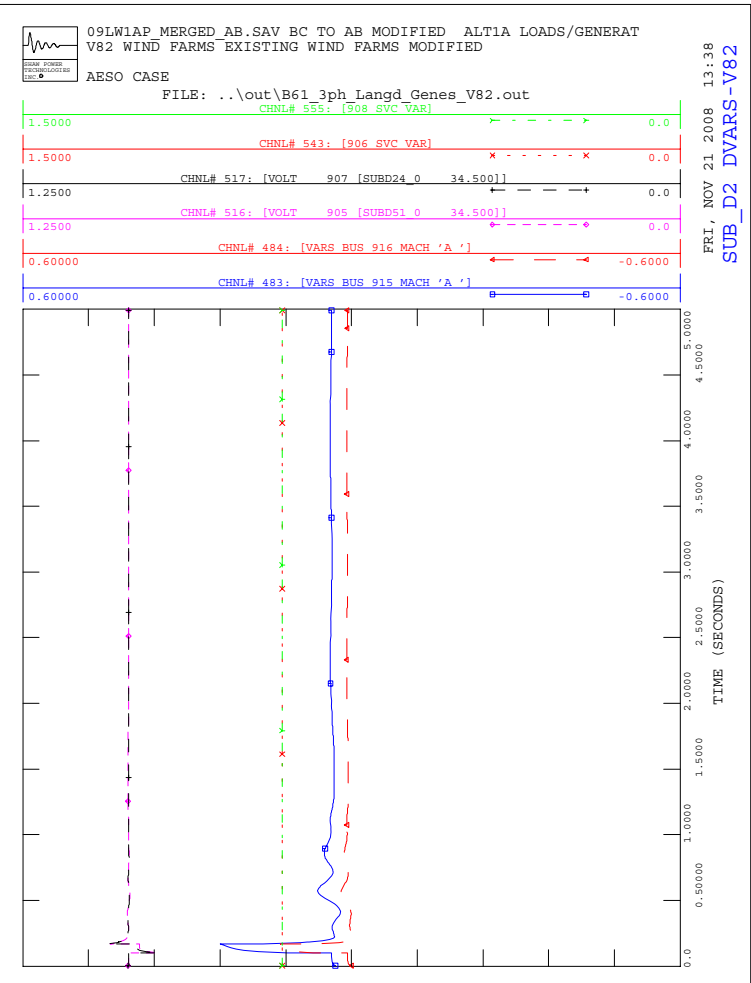
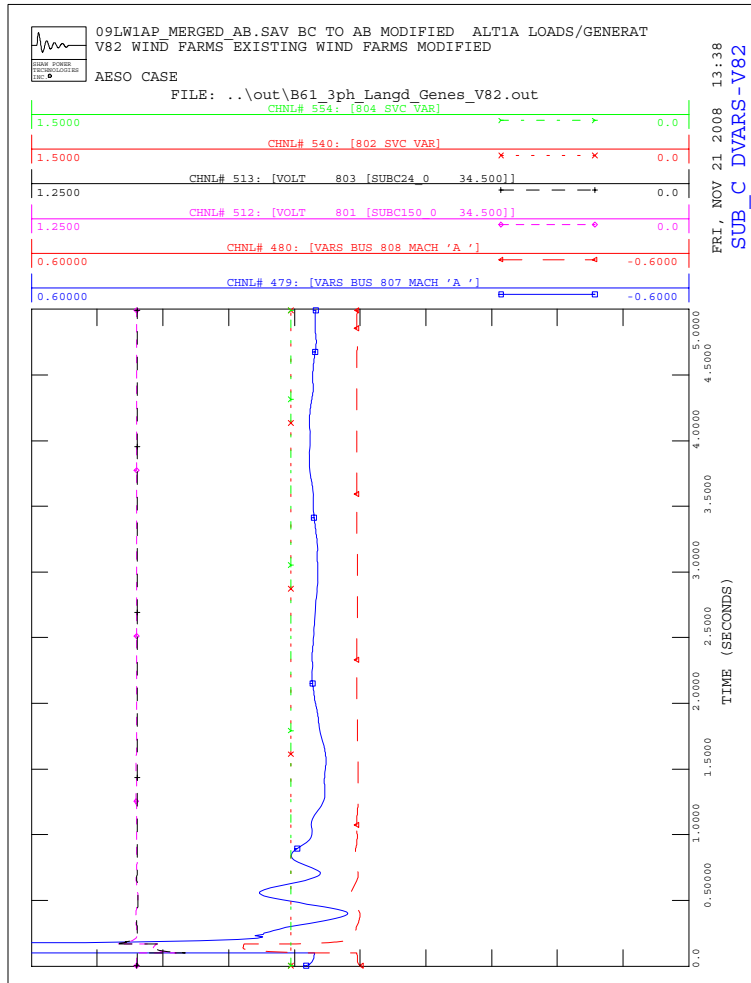


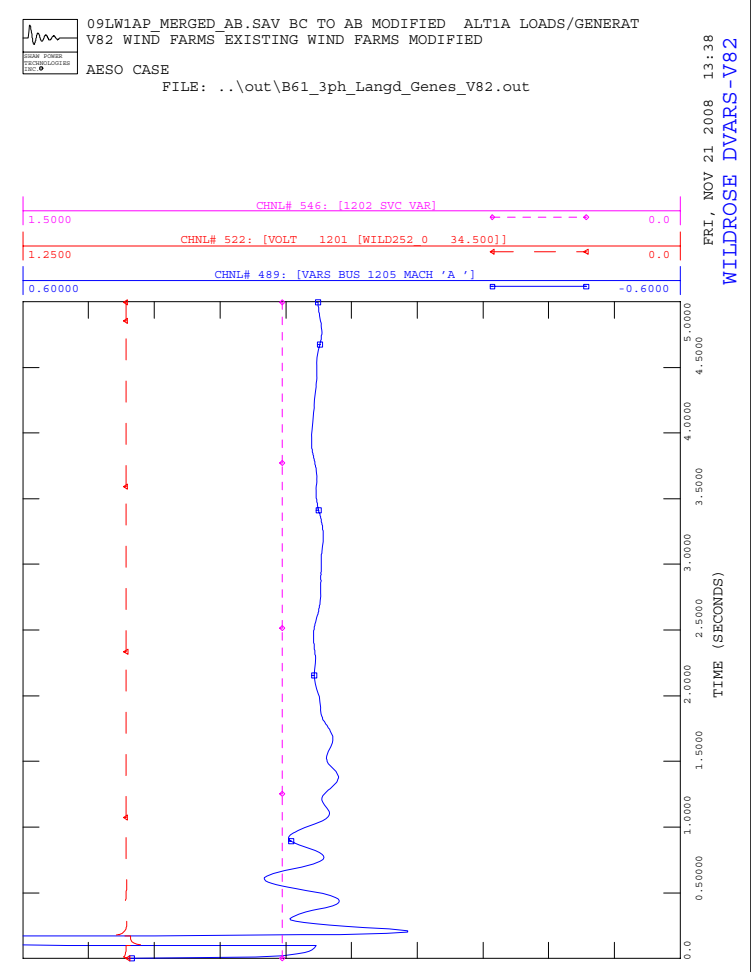
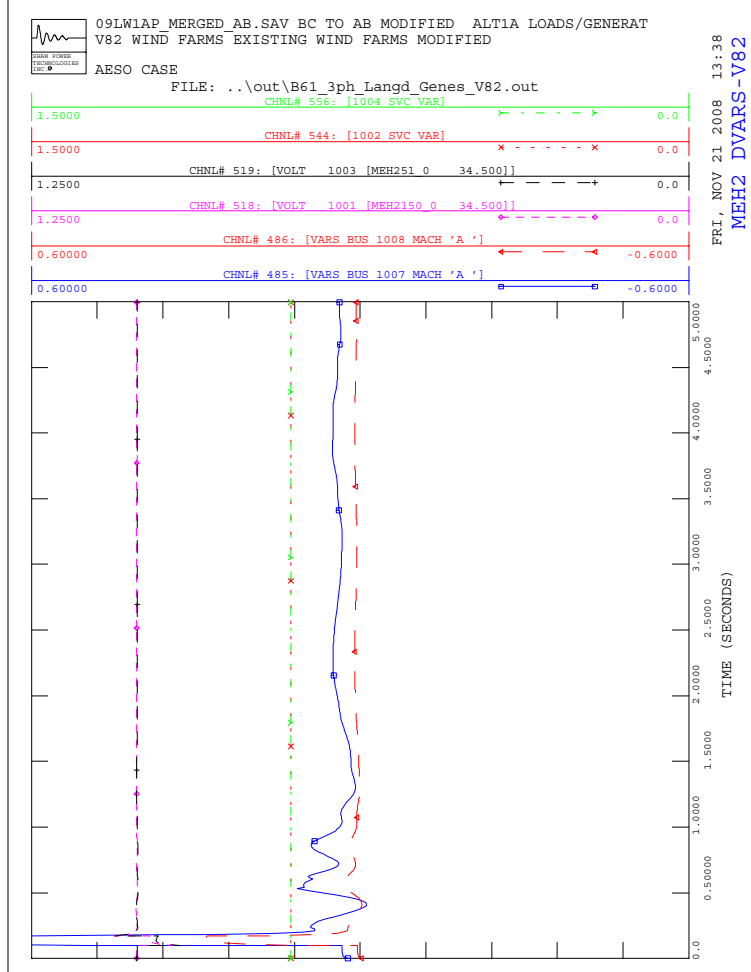
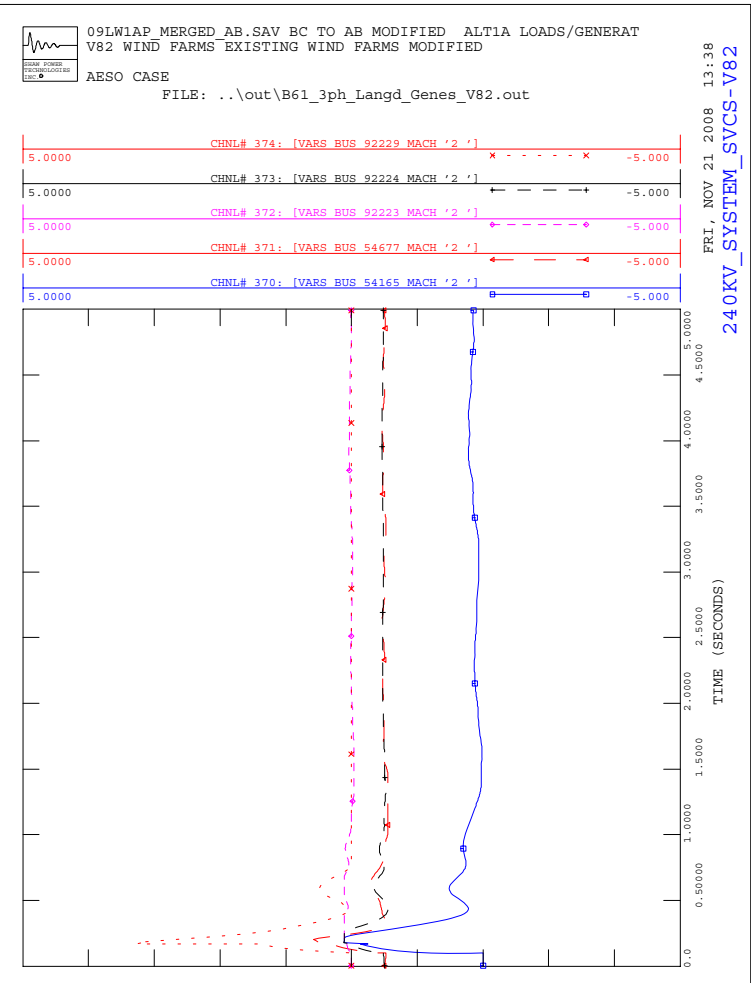
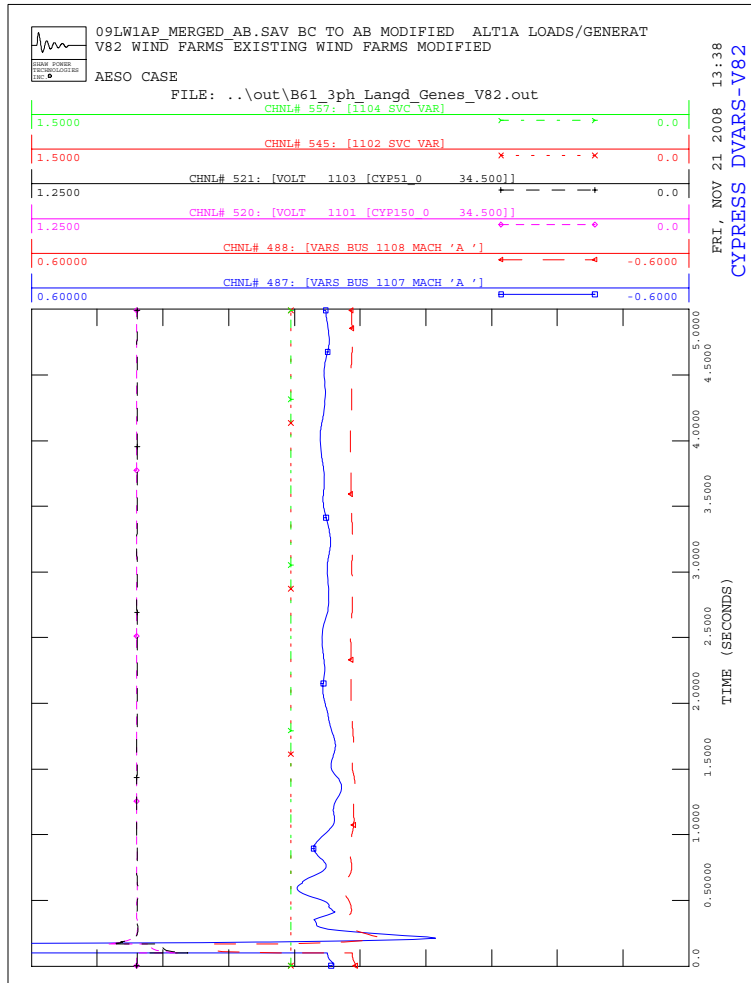












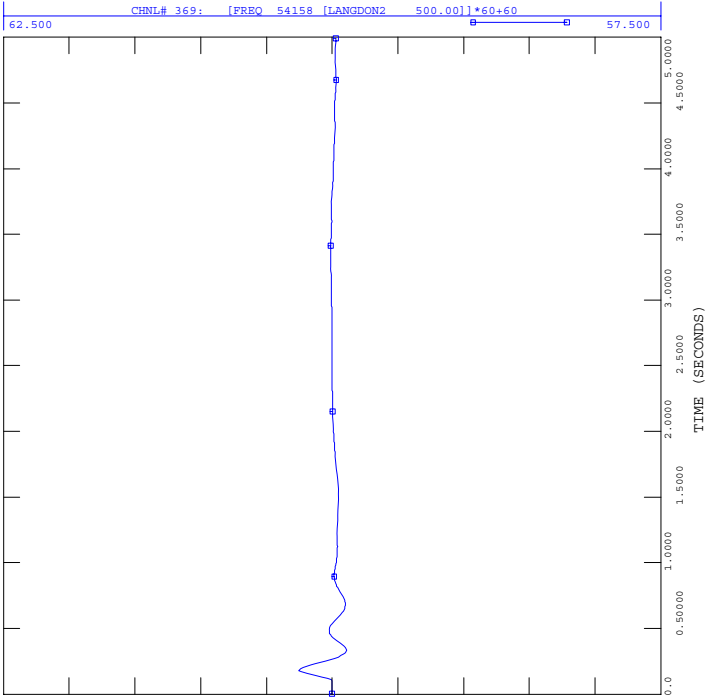


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\B61_3ph_Langd_Genes_V82.out

FRI, NOV 21 2008 13:38
LANGDON_FRQ-V82

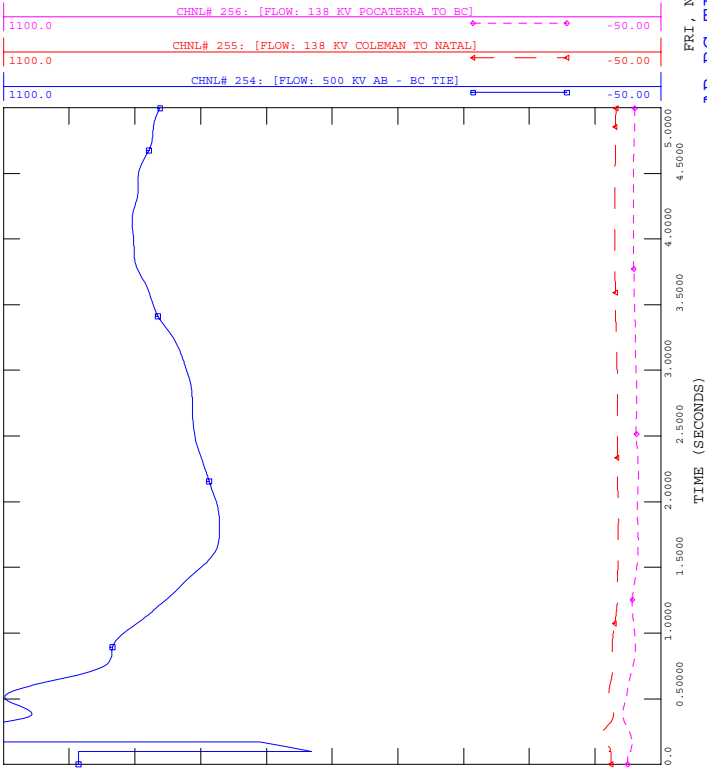


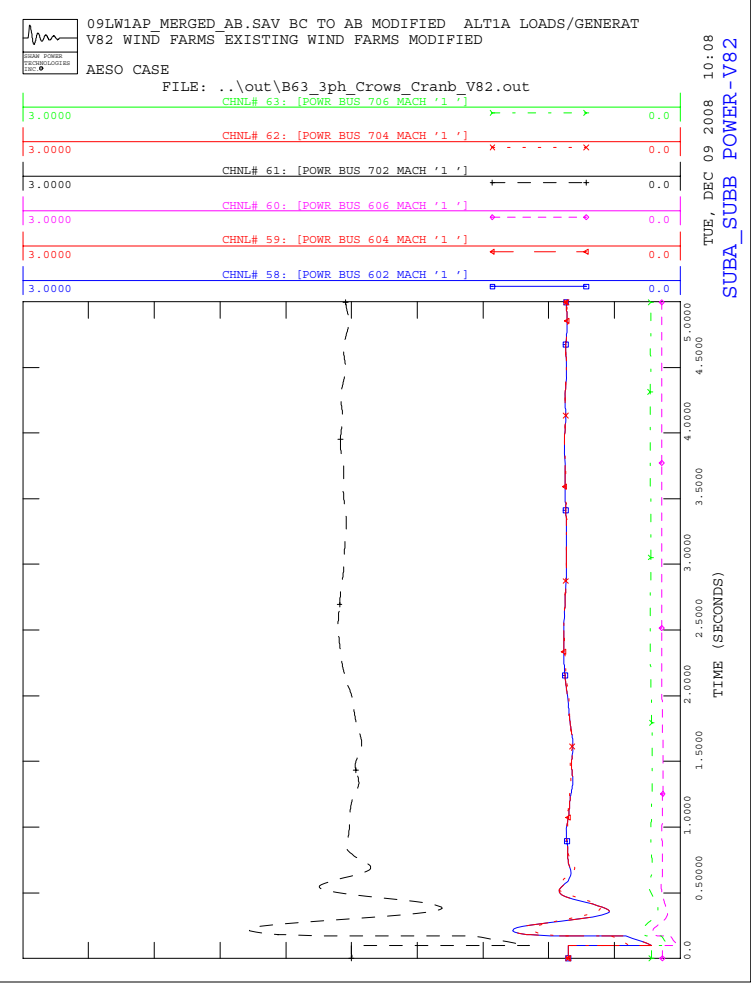
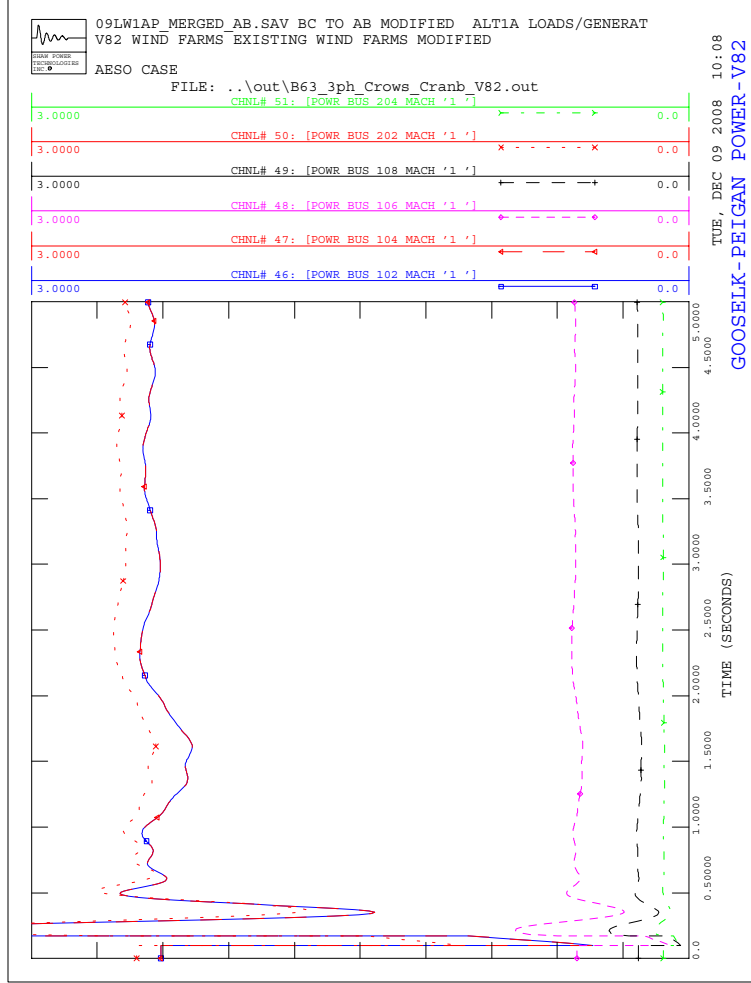
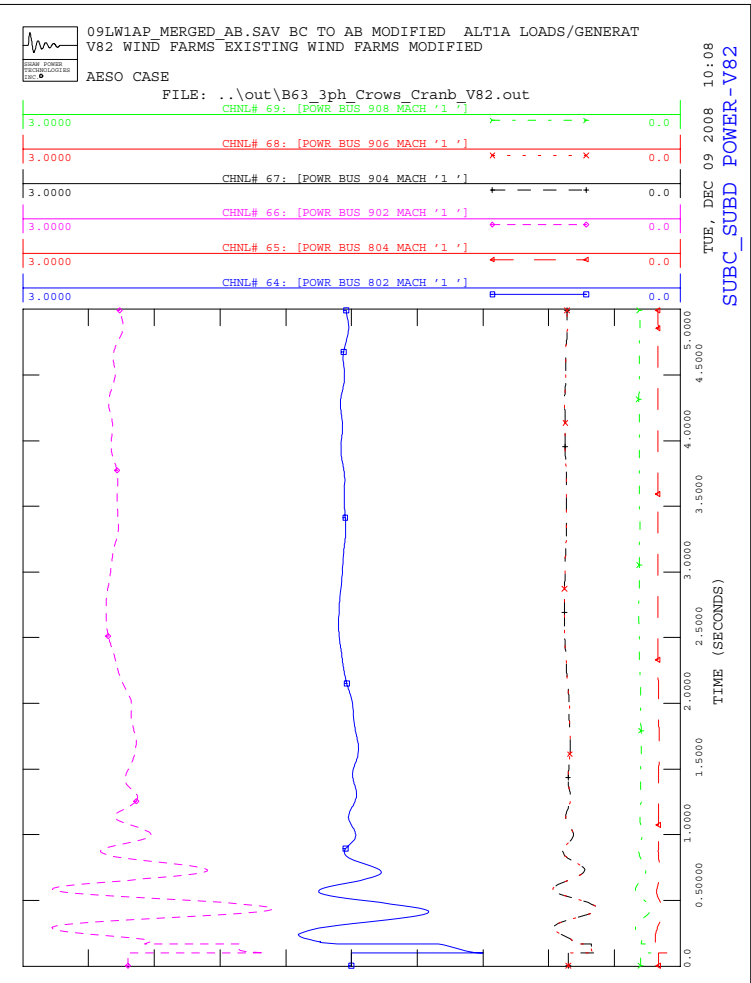
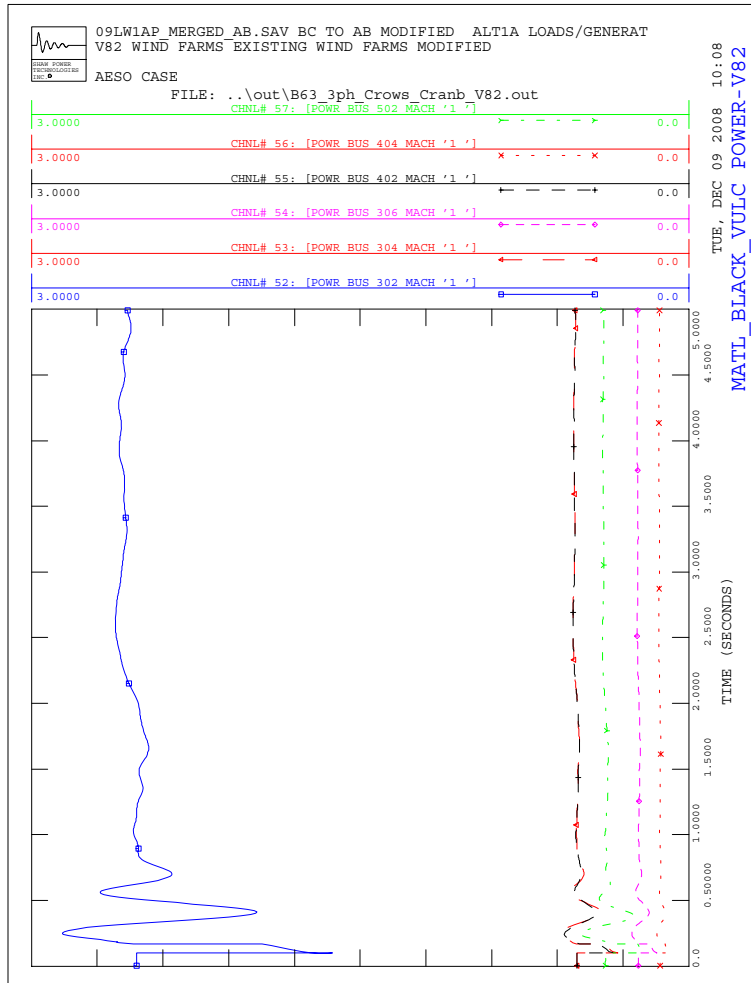
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

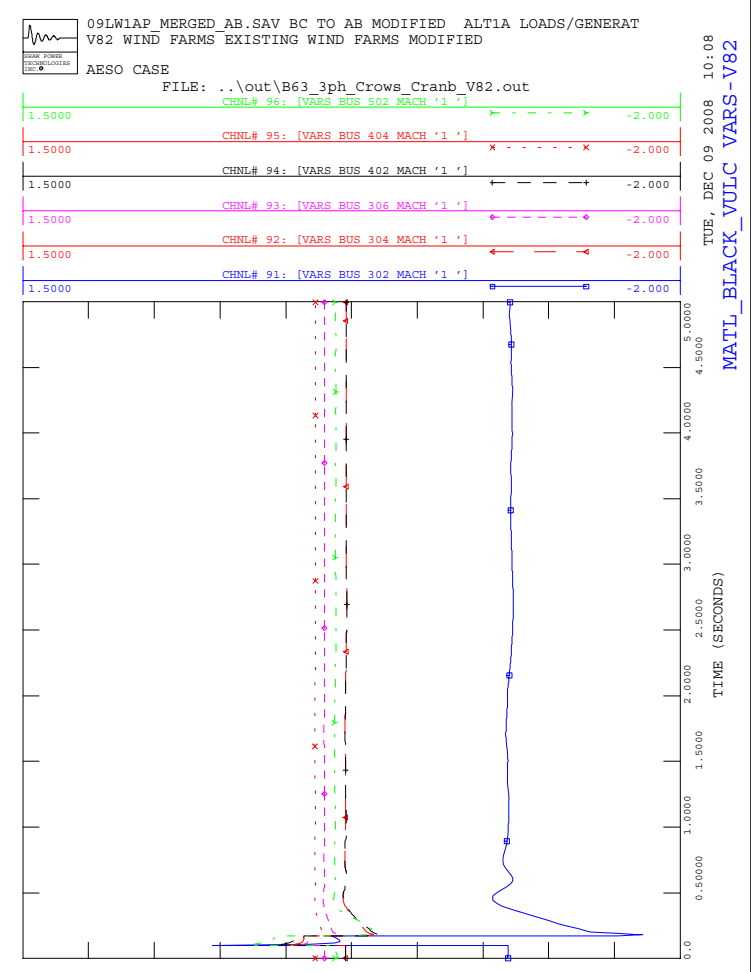
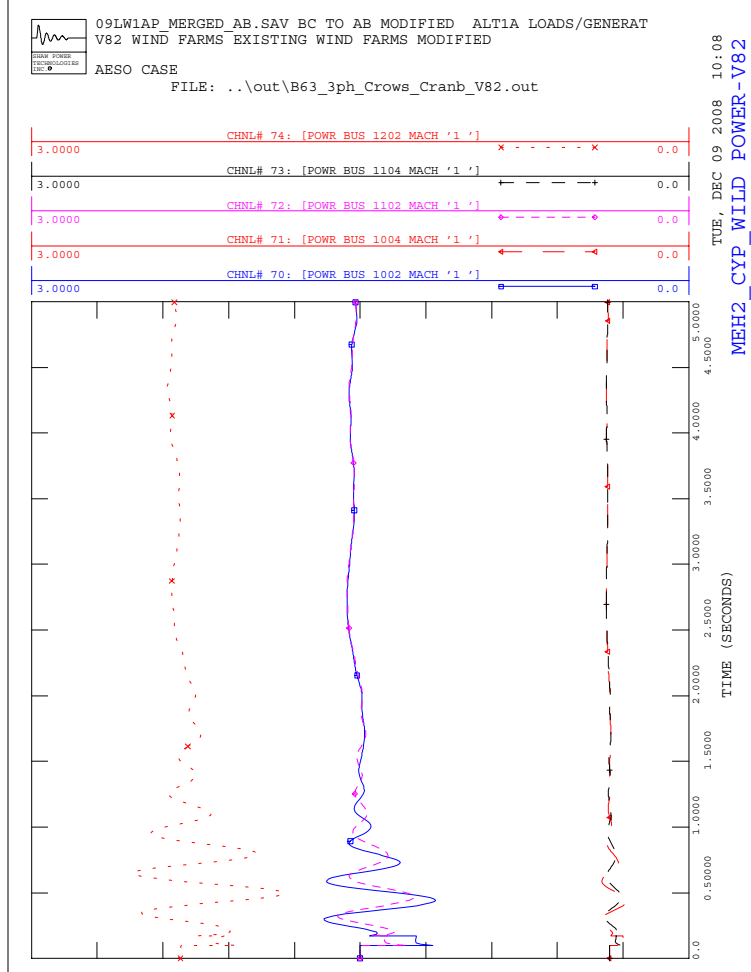
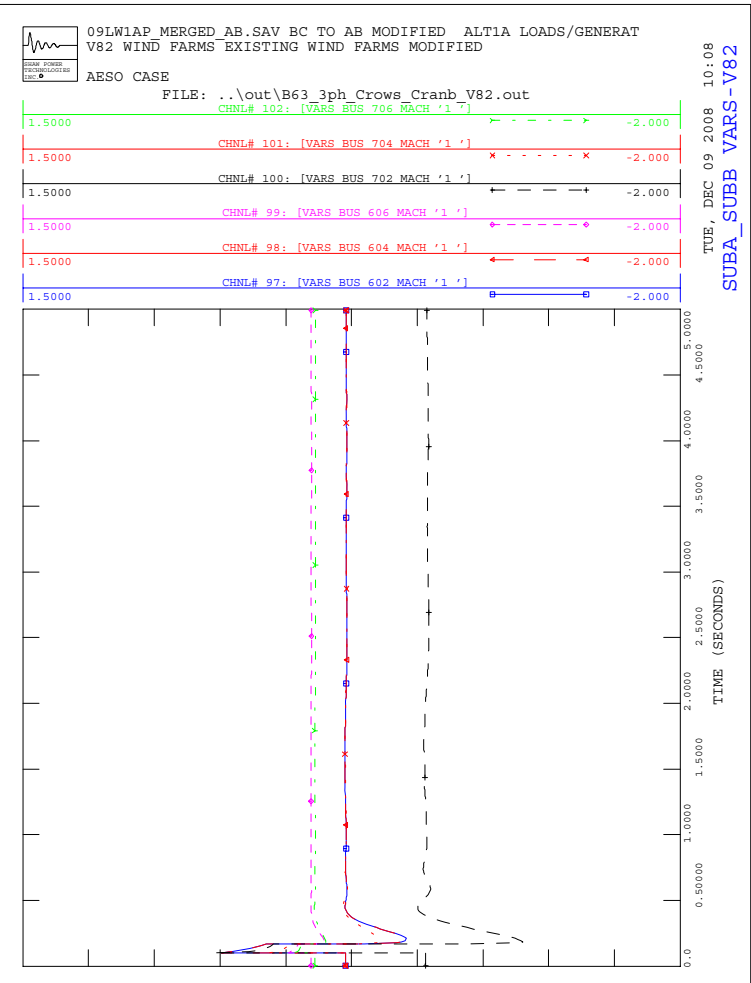
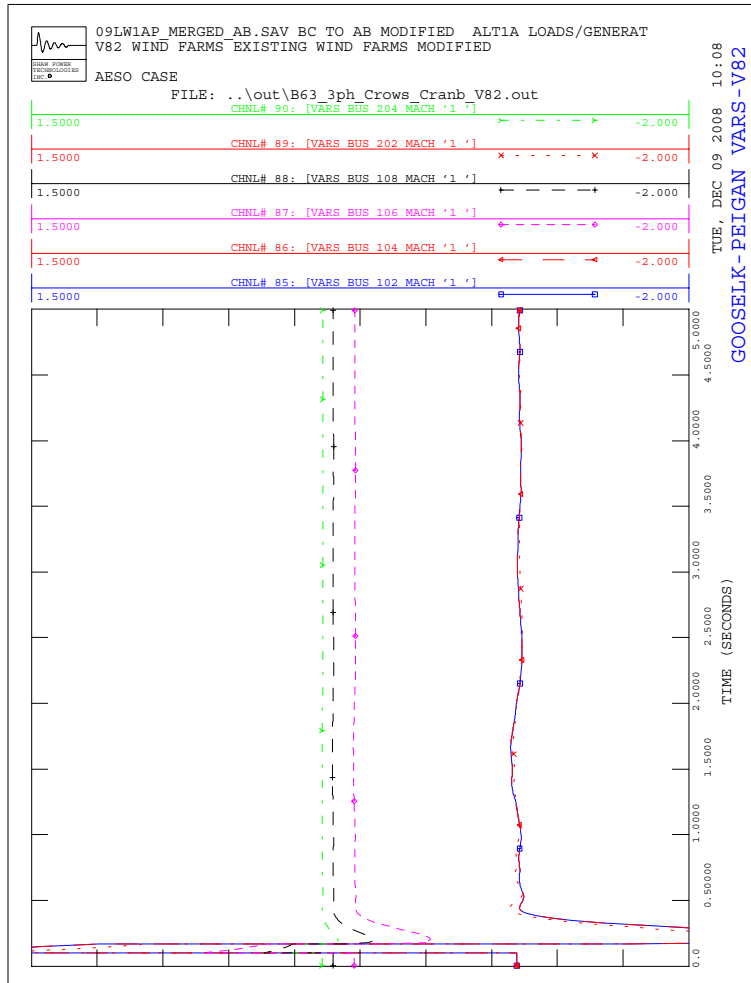
ABSO CASE

FILE: ..\out\B61_3ph_Langd_Genes_V82.out

FRI, NOV 21 2008 13:38
AB_BC_TIE_FLOWS-V82

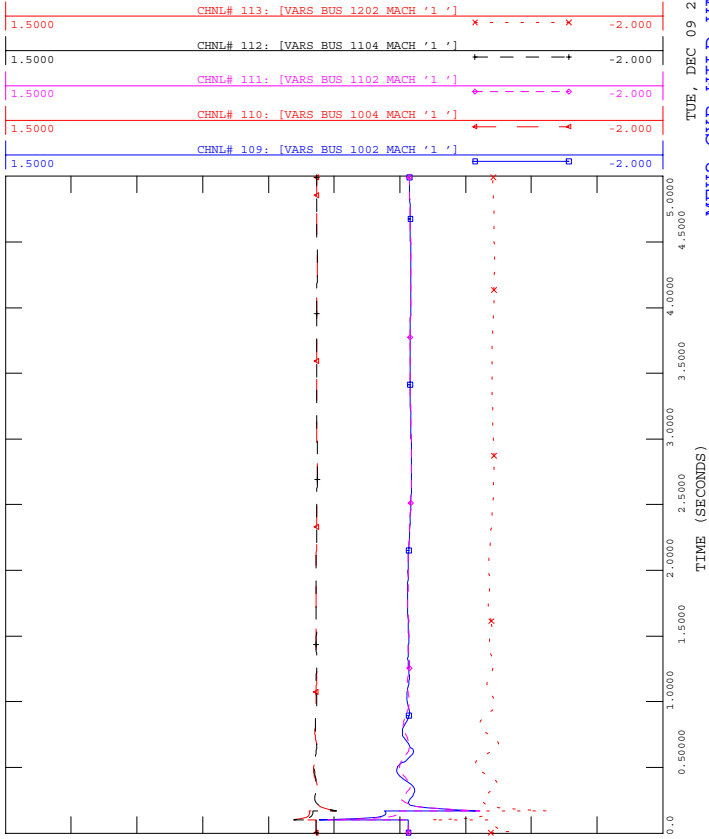






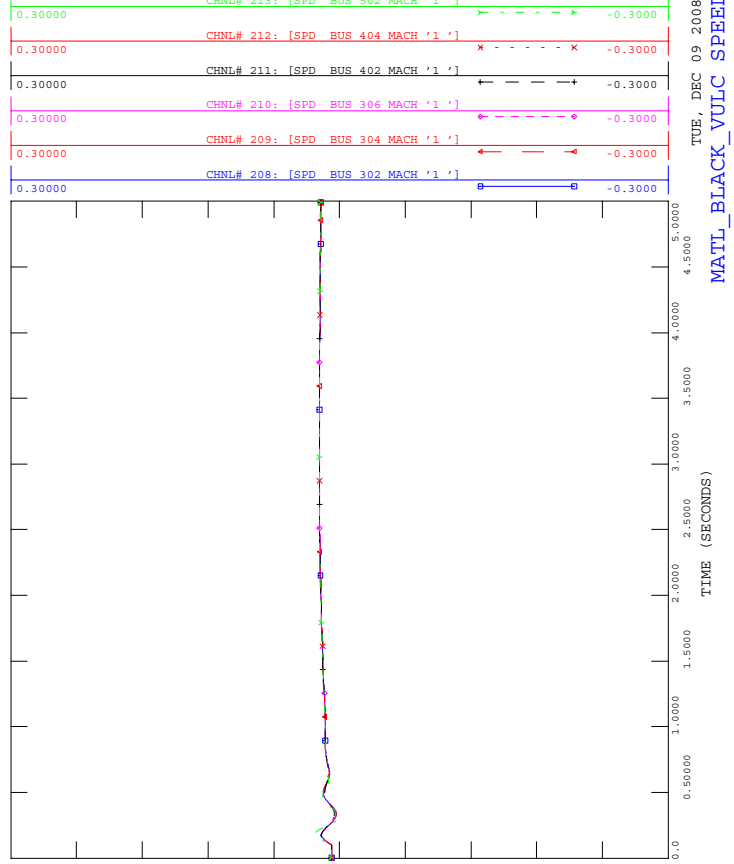
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\B63_3ph_Crows_Cranb_V82.out



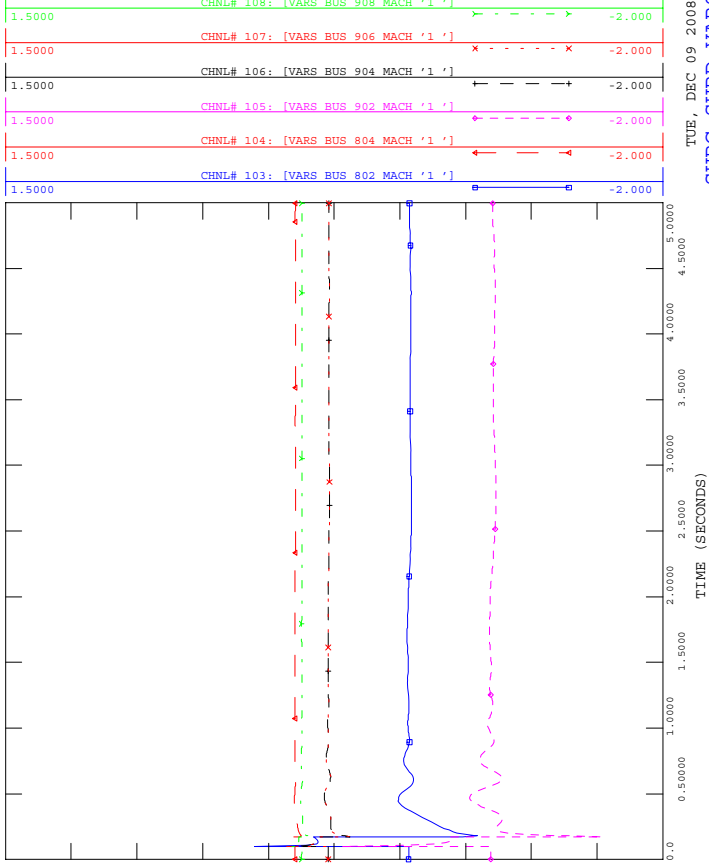
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\B63_3ph_Crows_Cranb_V82.out



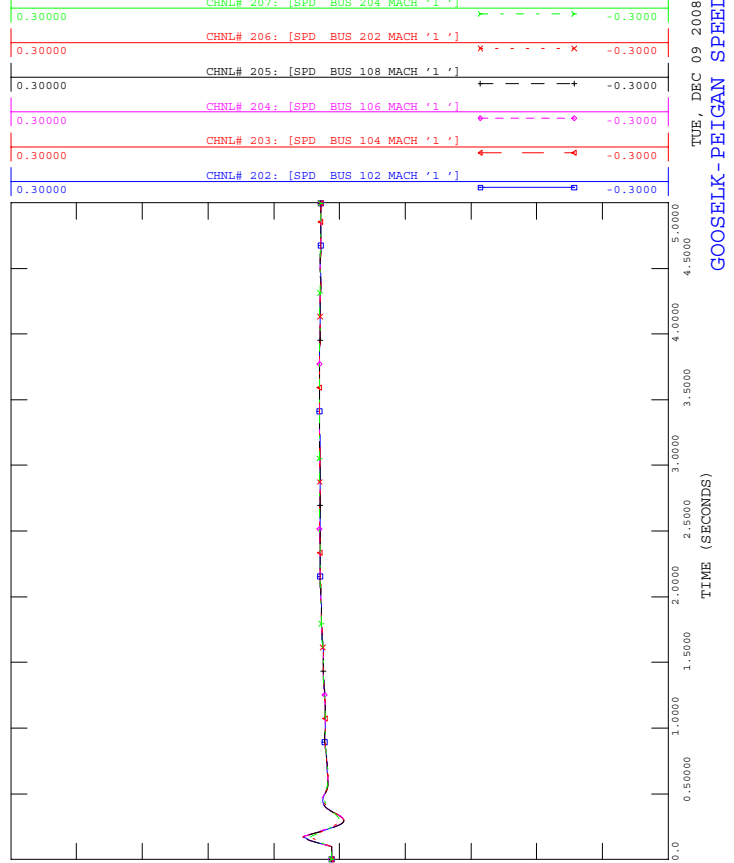
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

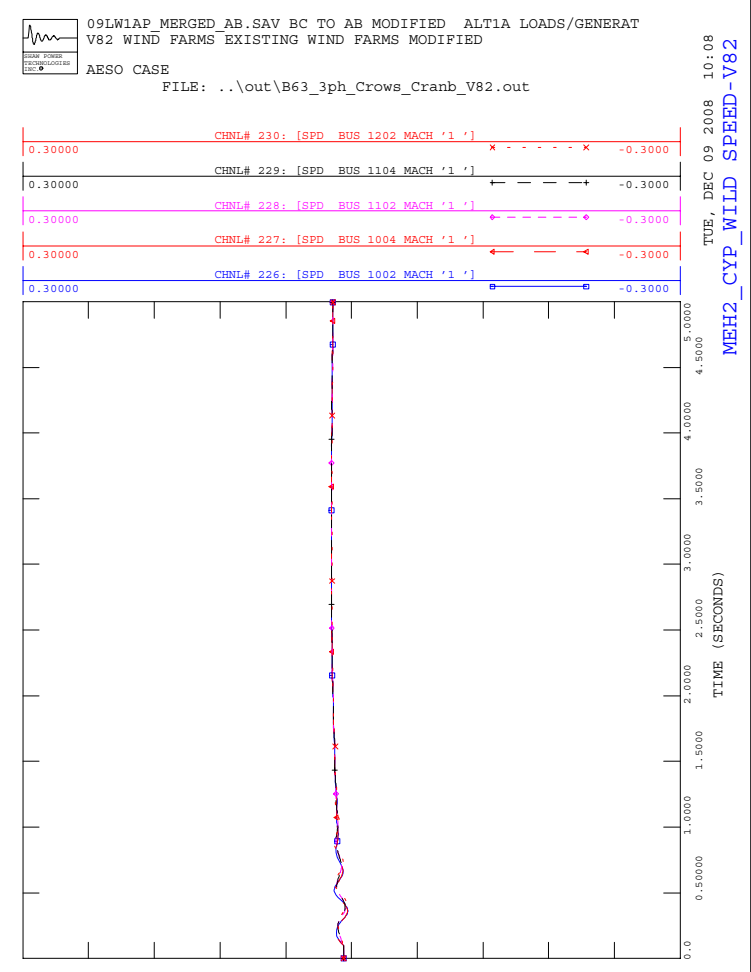
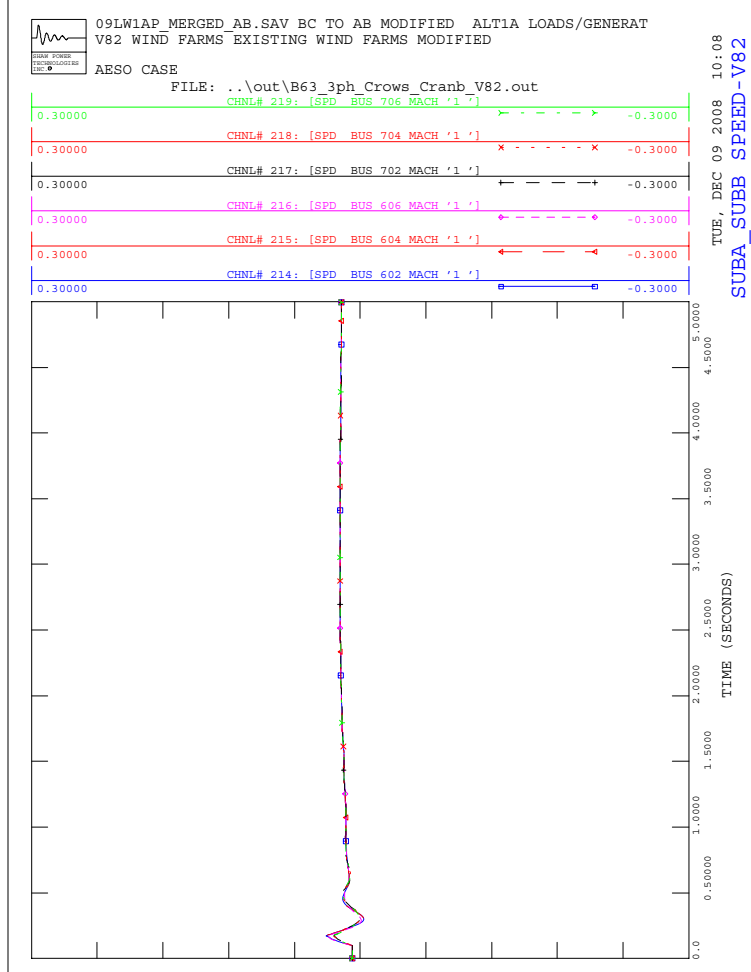
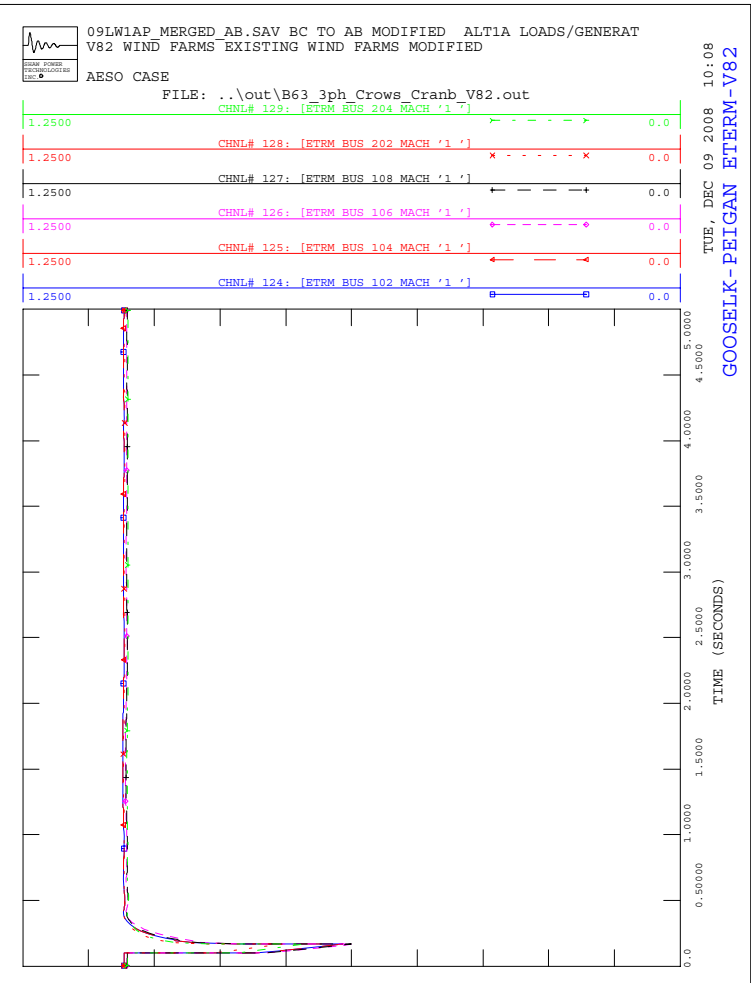
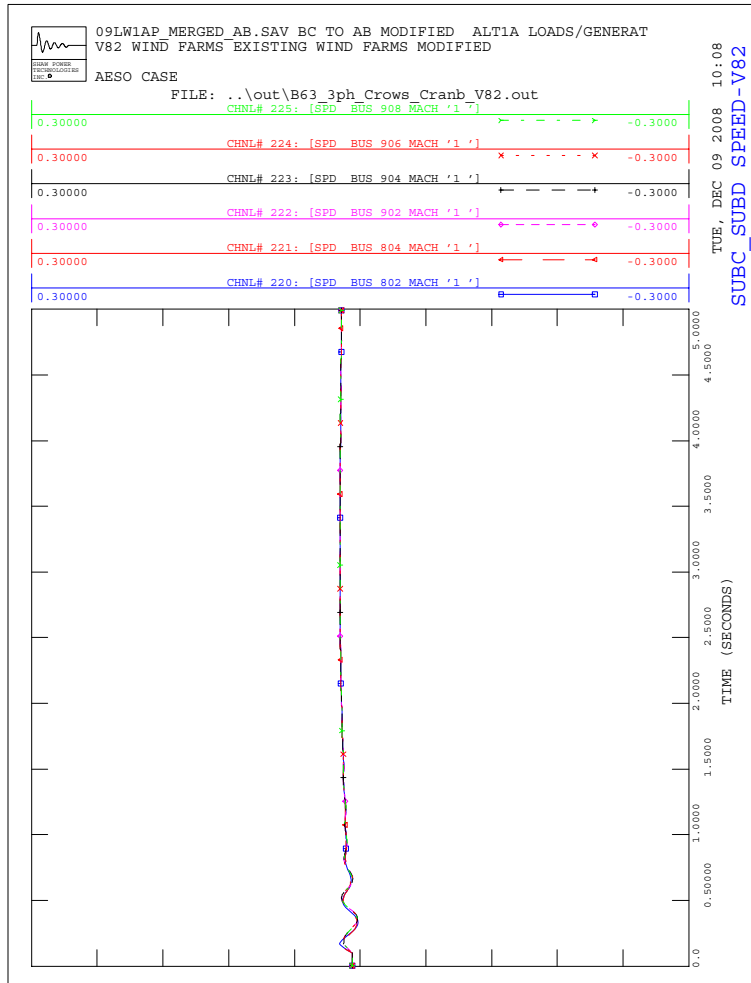
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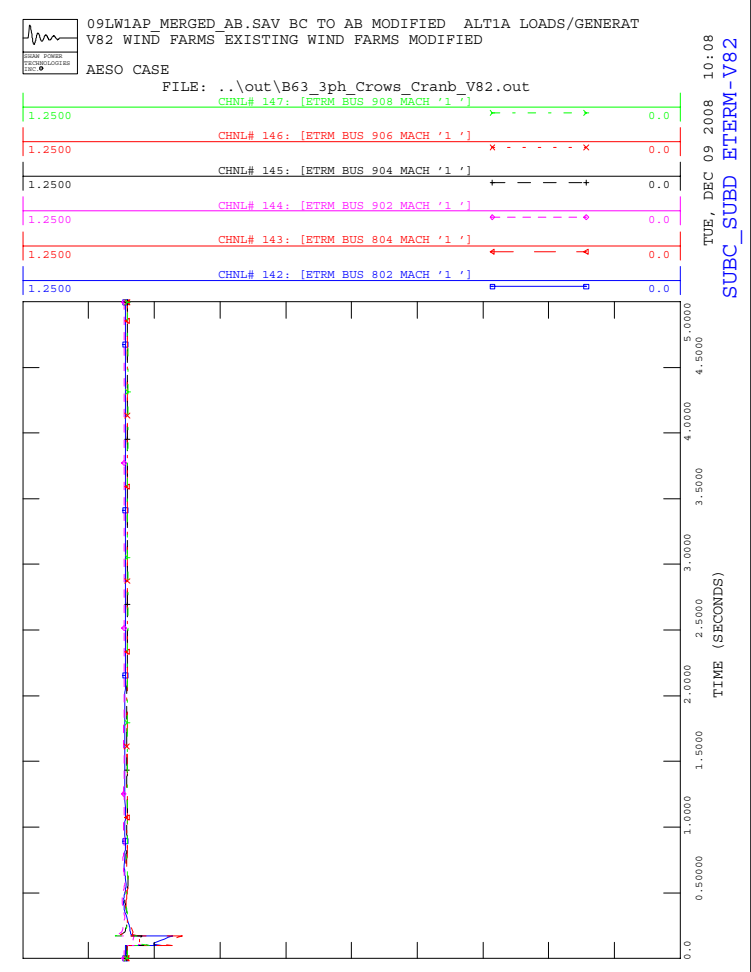
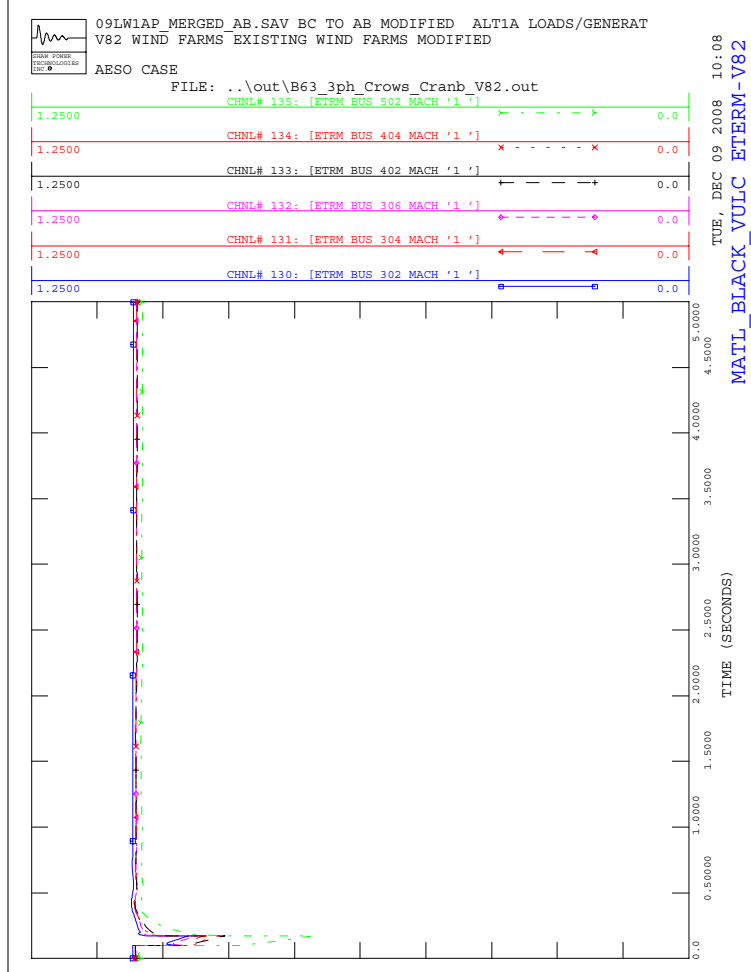
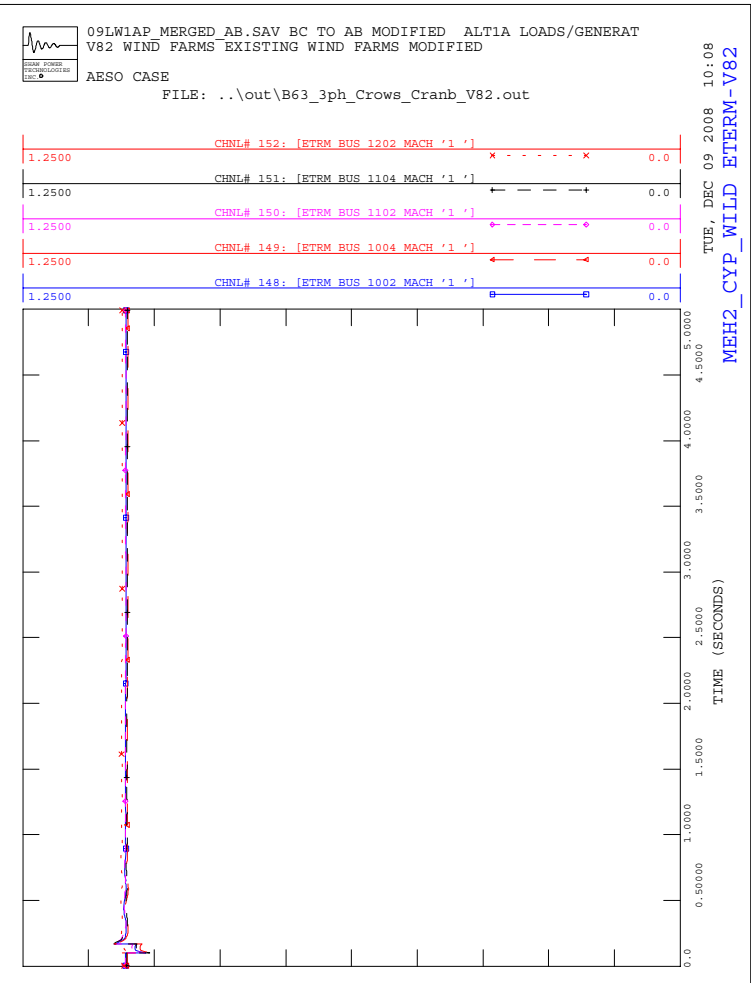
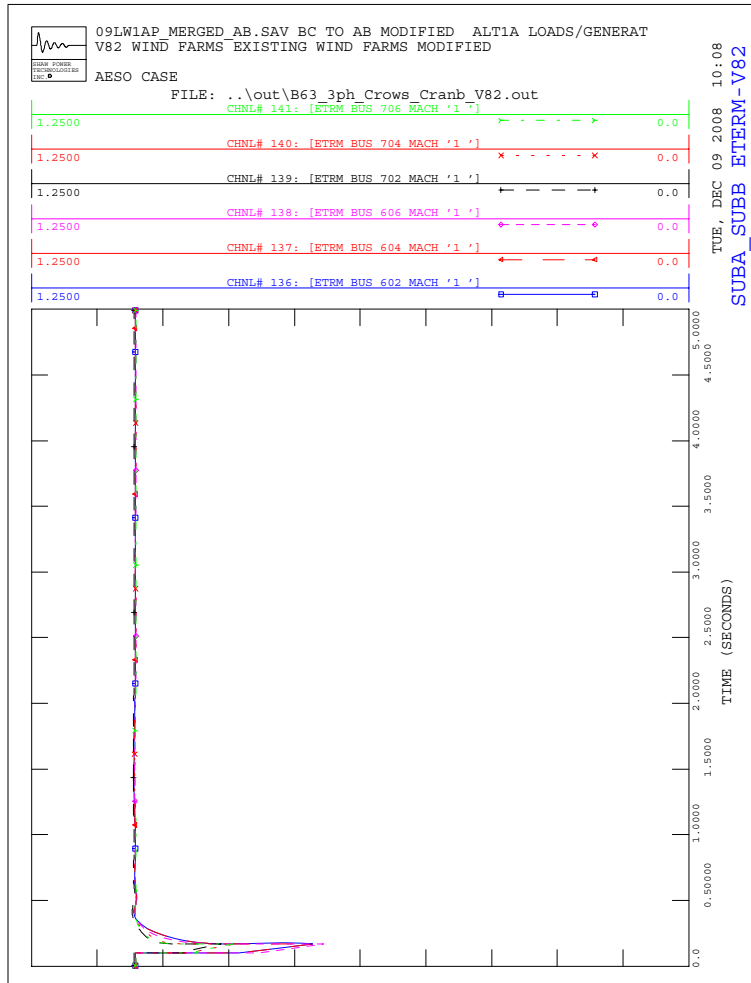


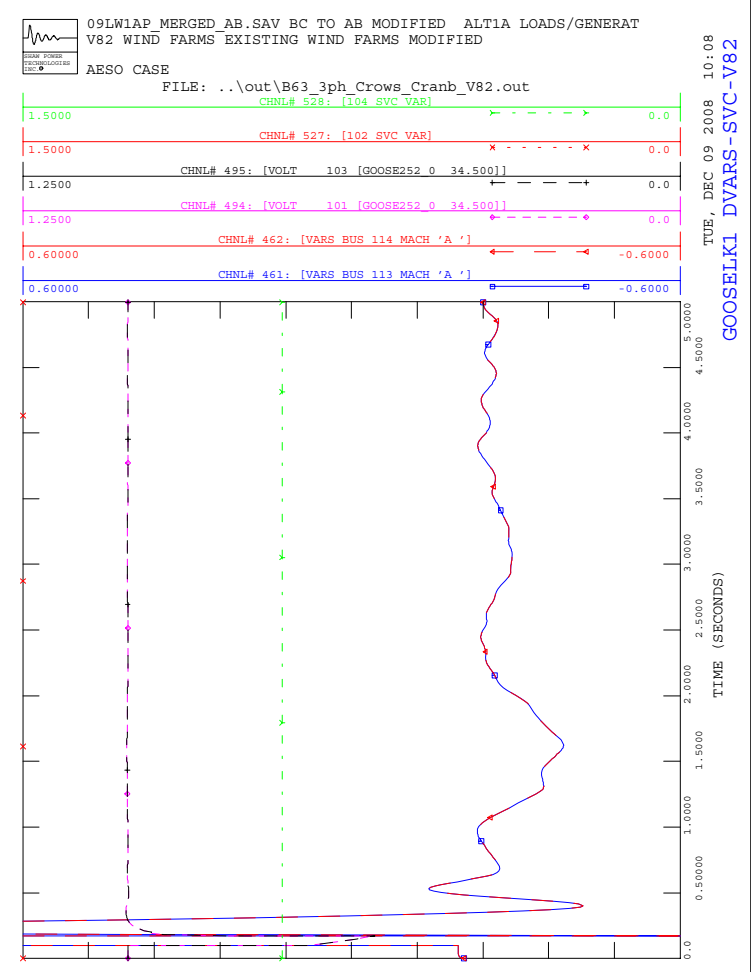
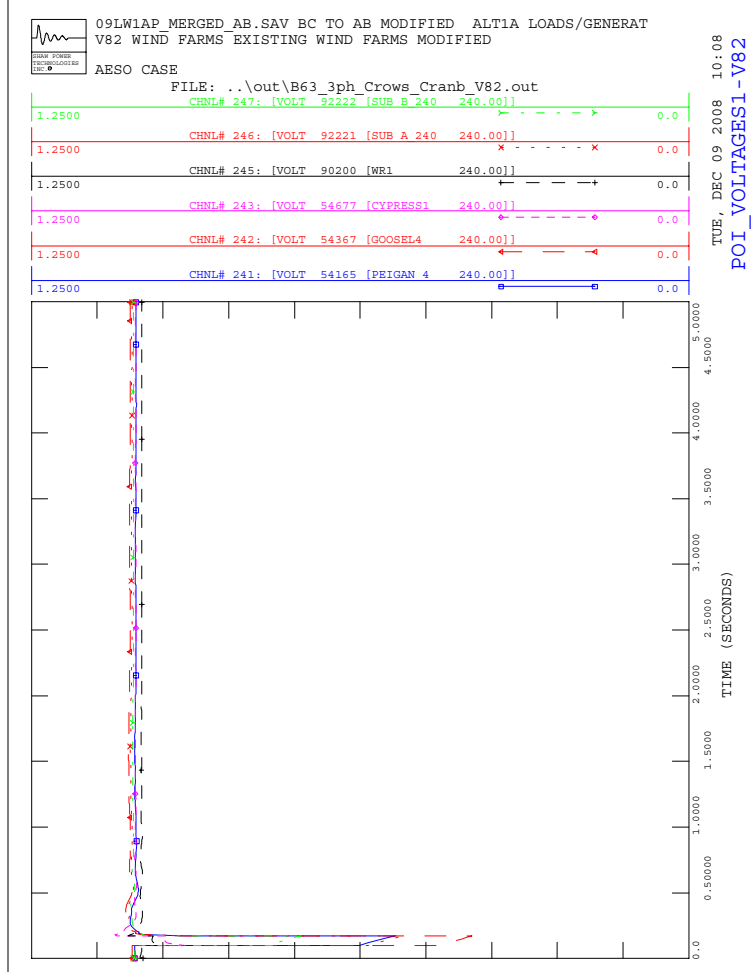
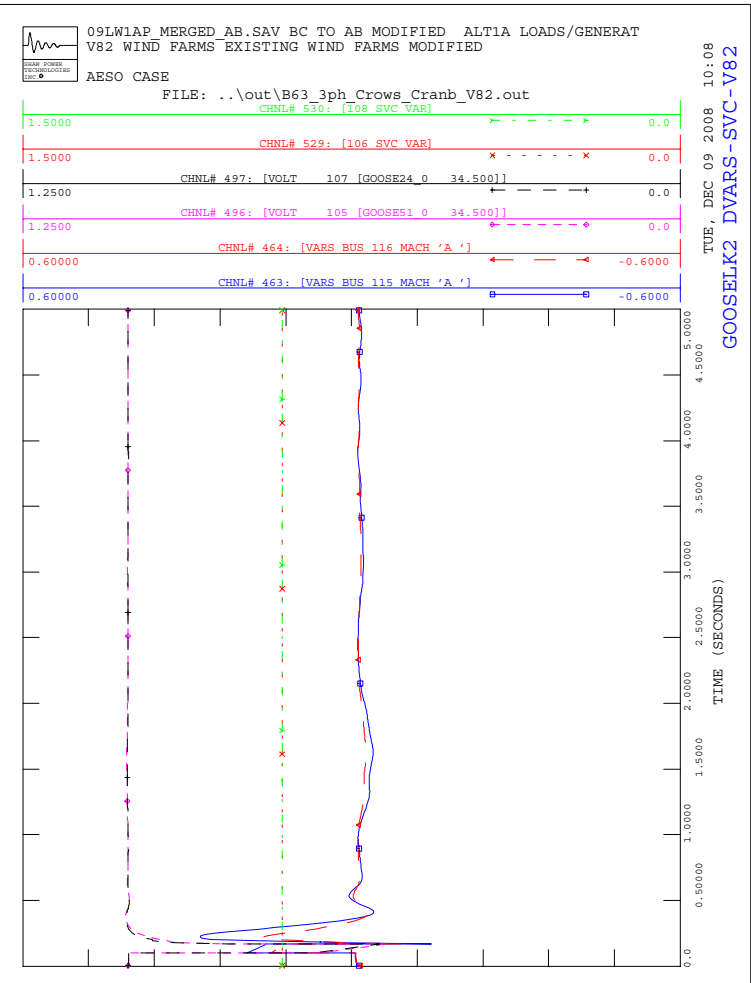
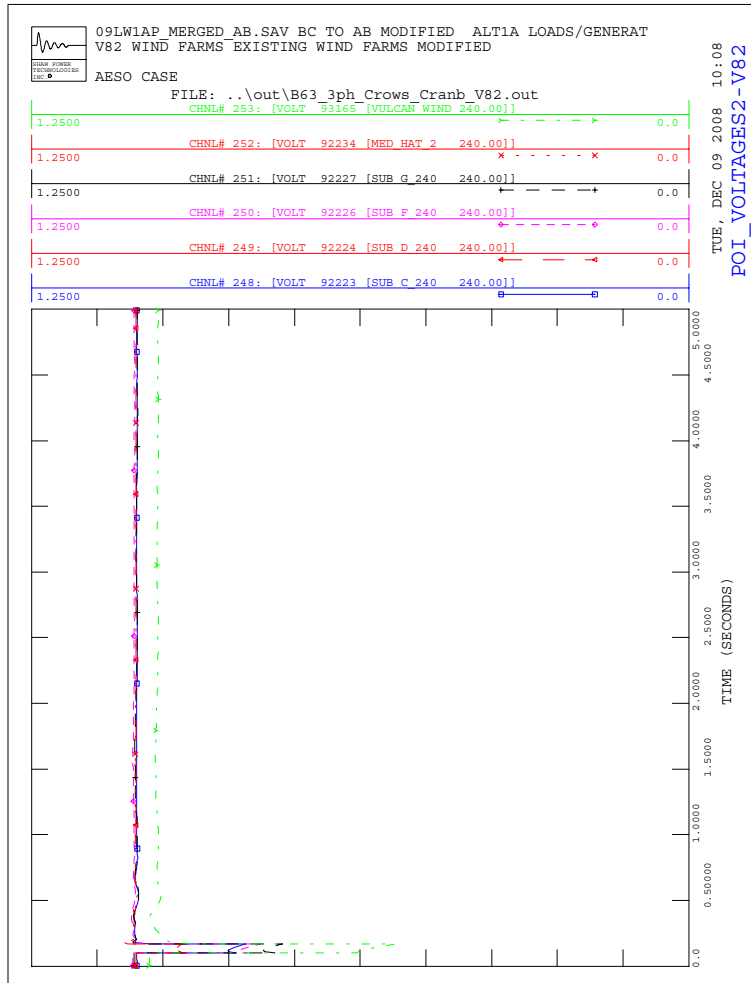
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

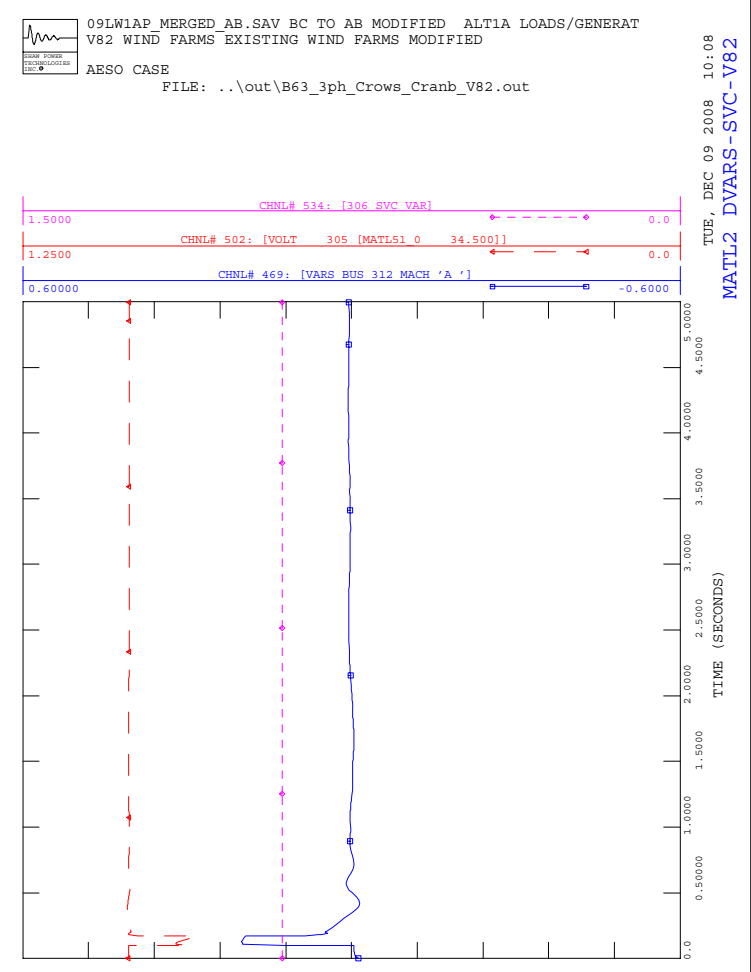
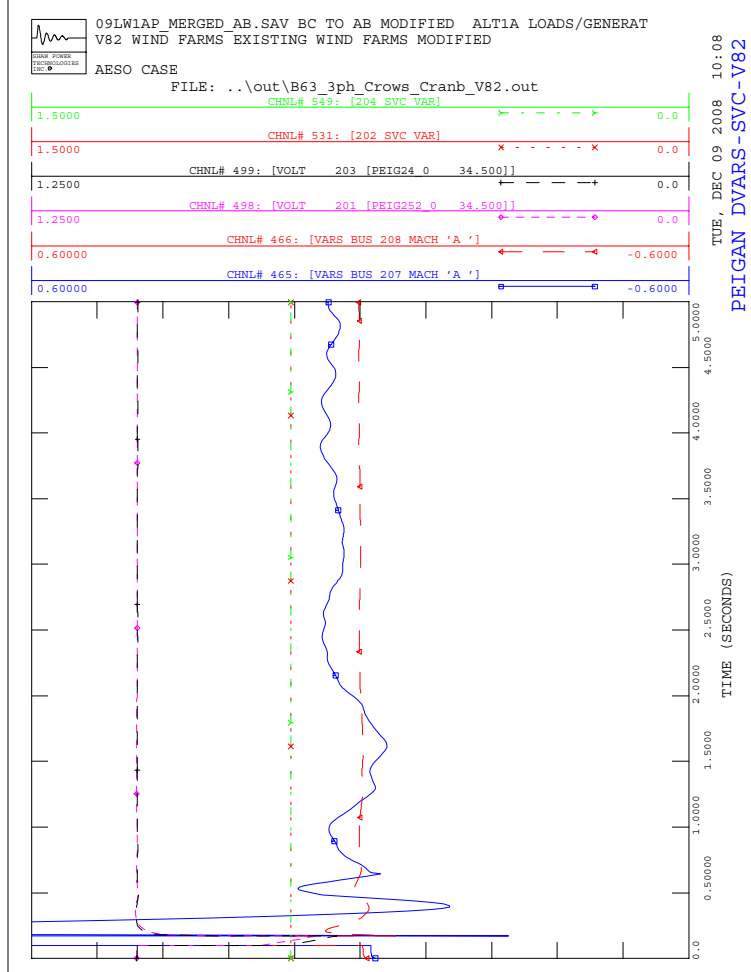
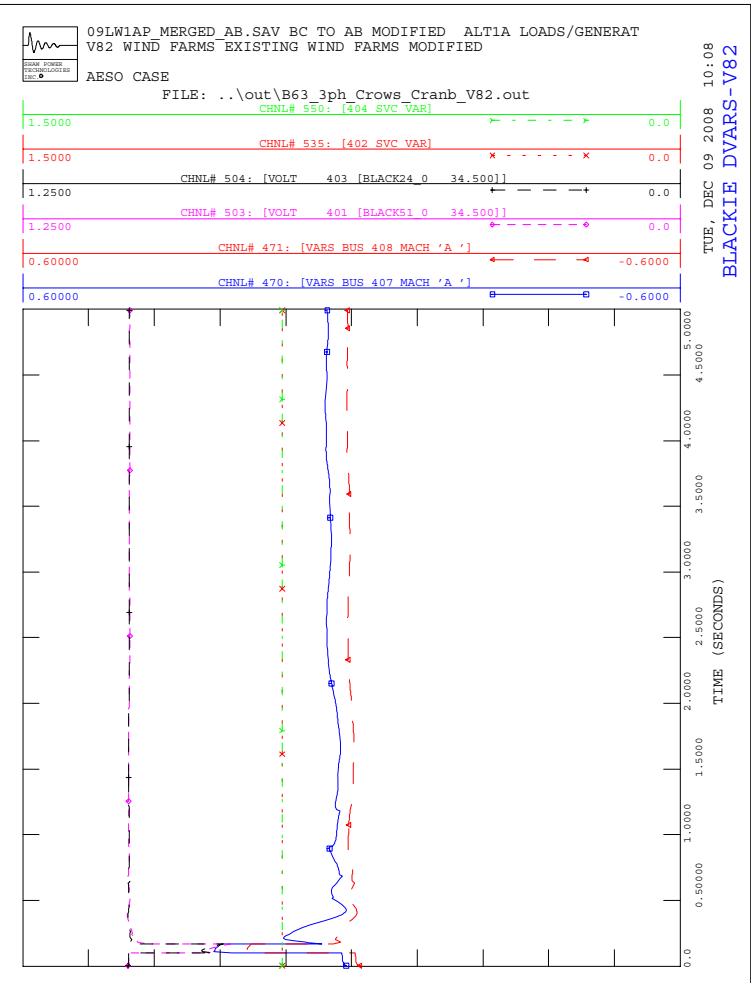
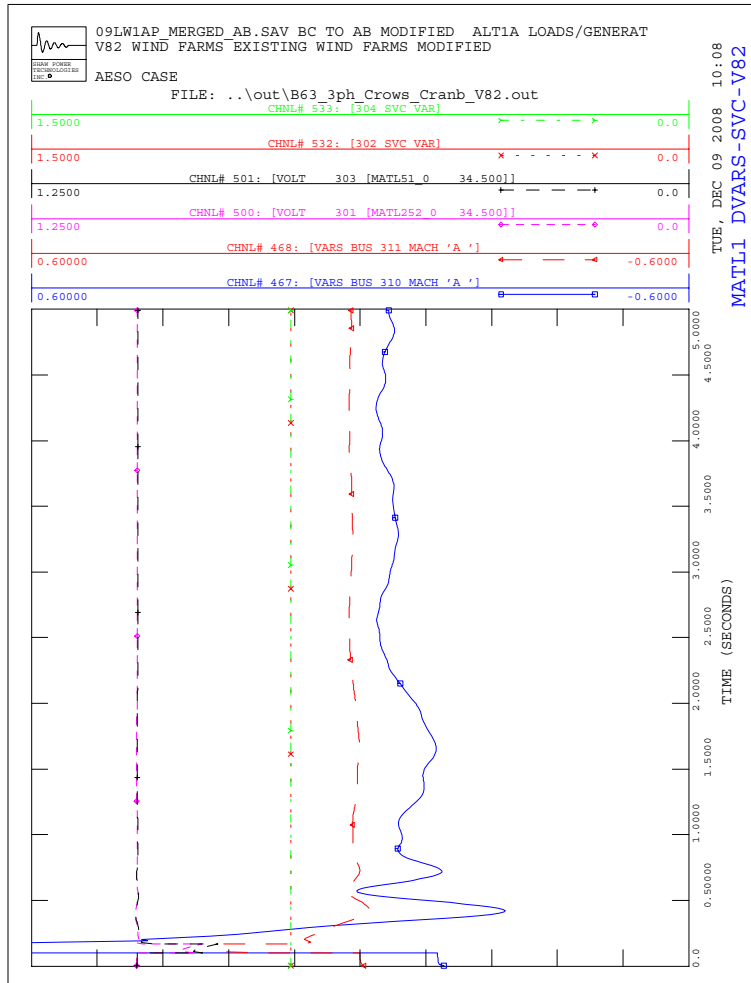
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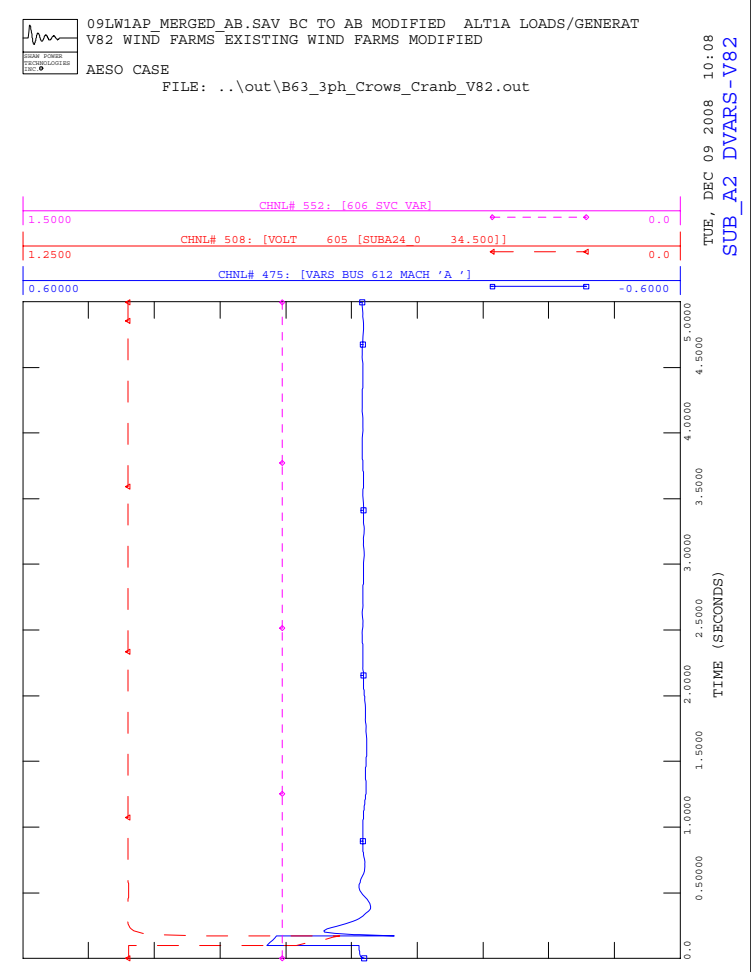
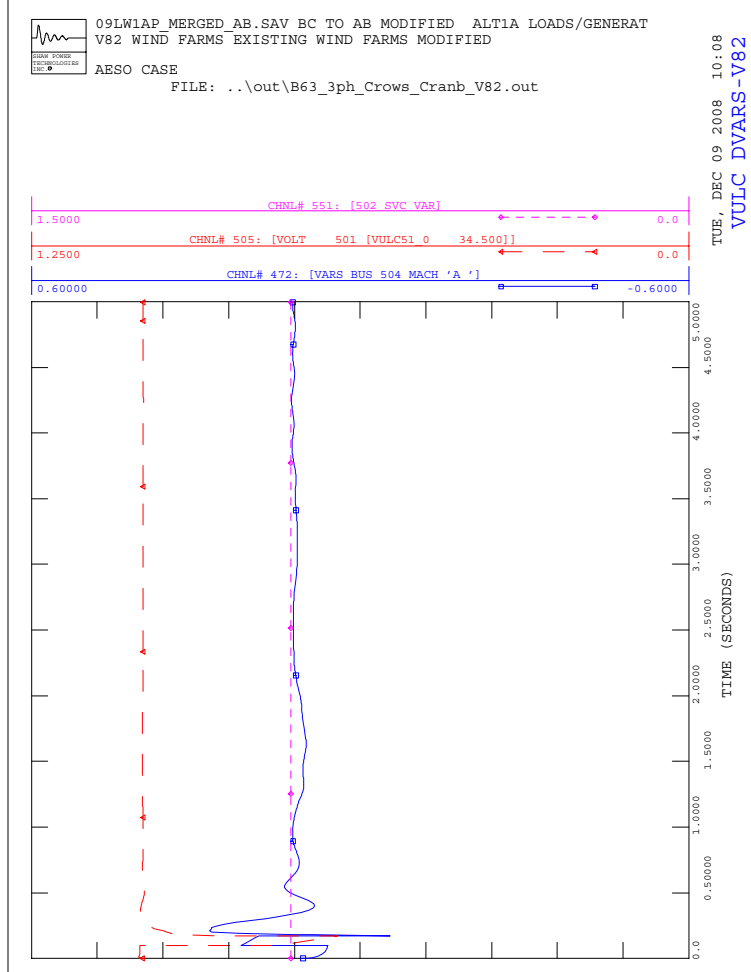
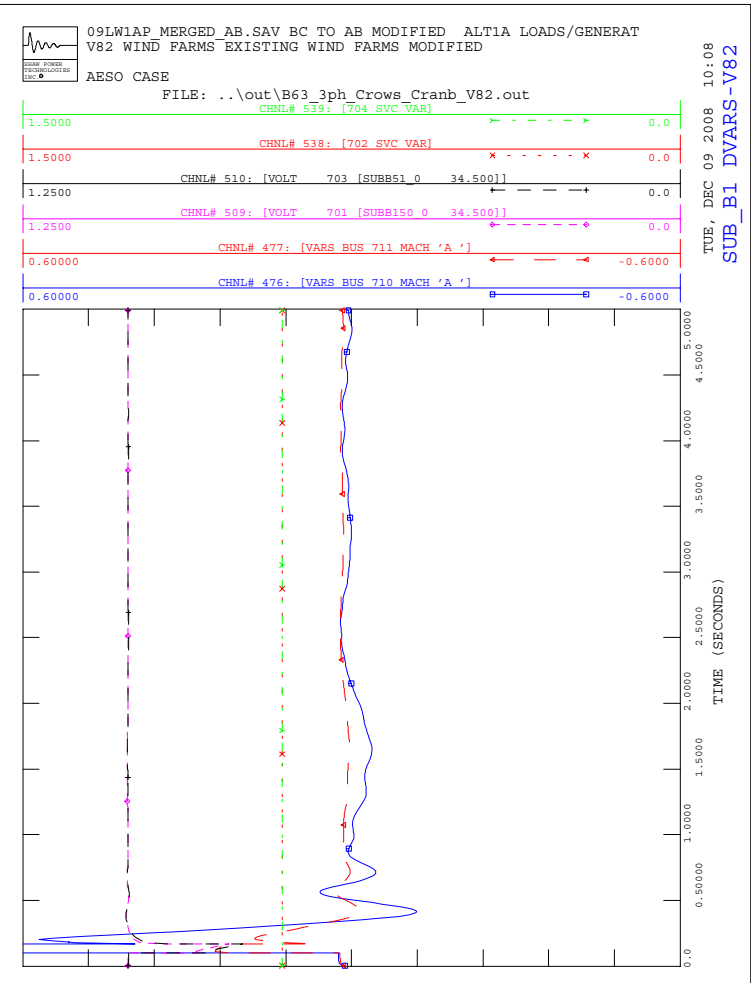
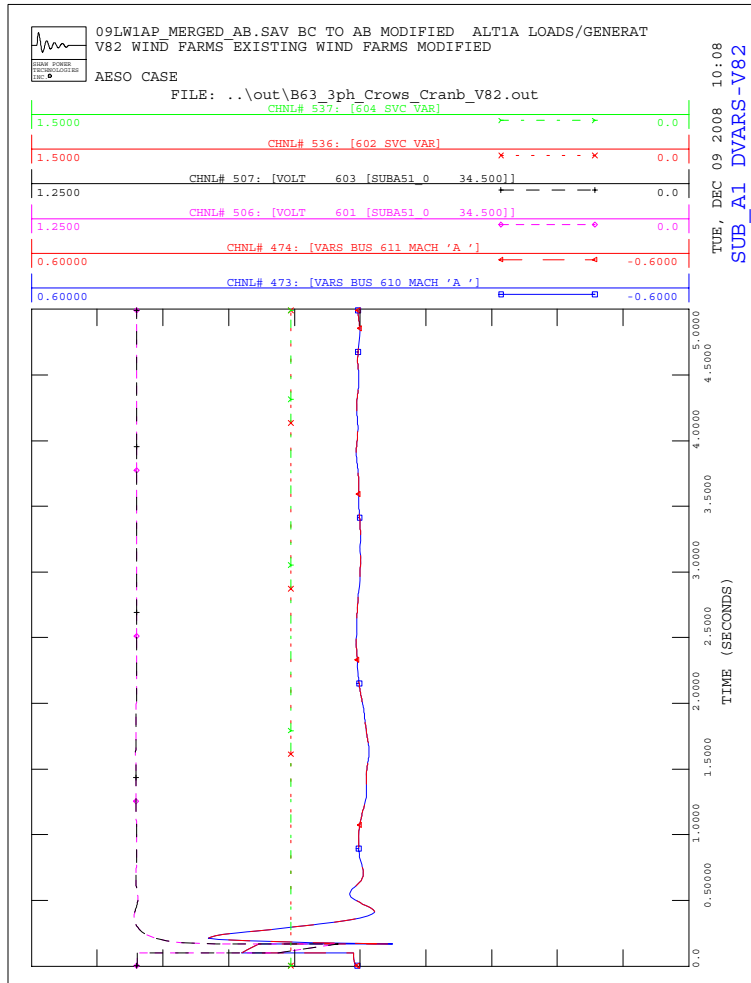


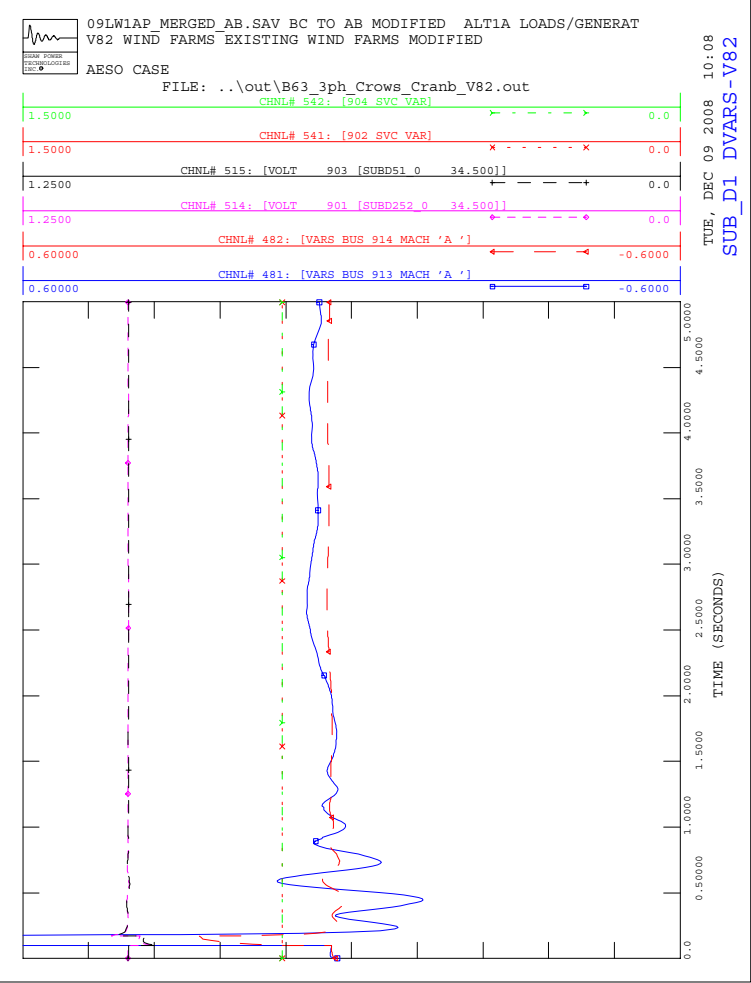
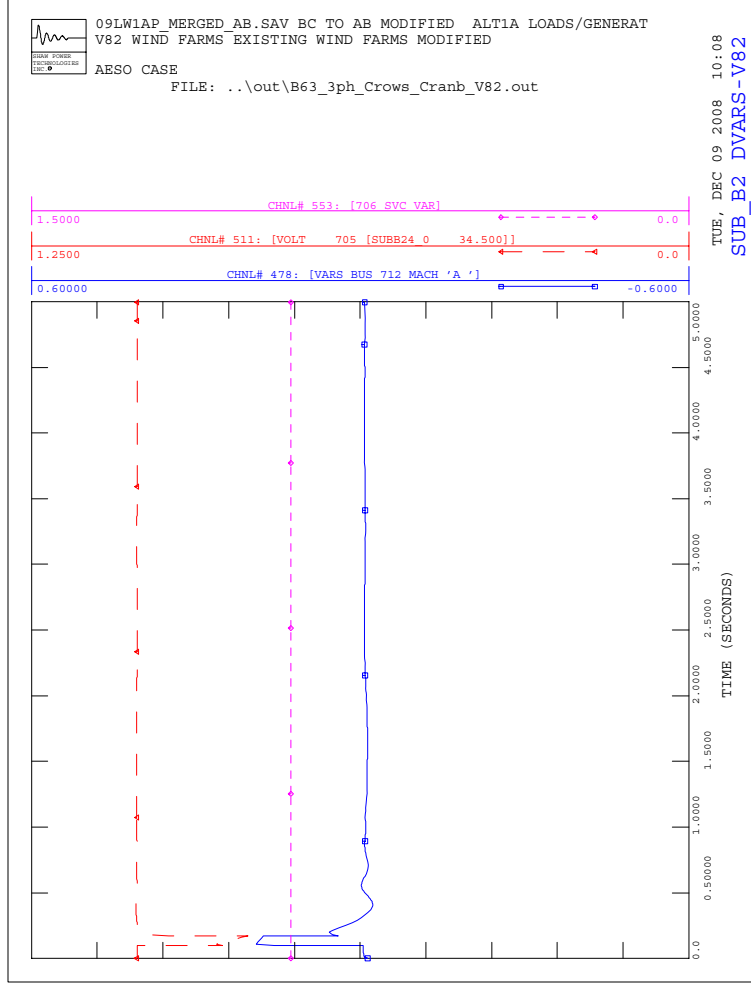
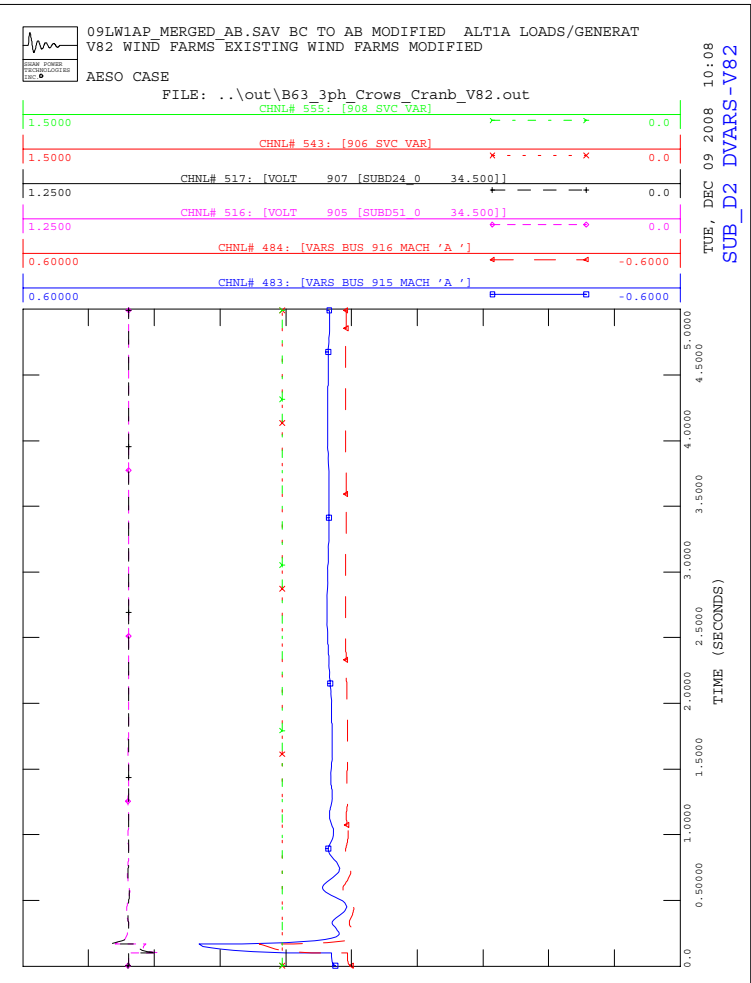
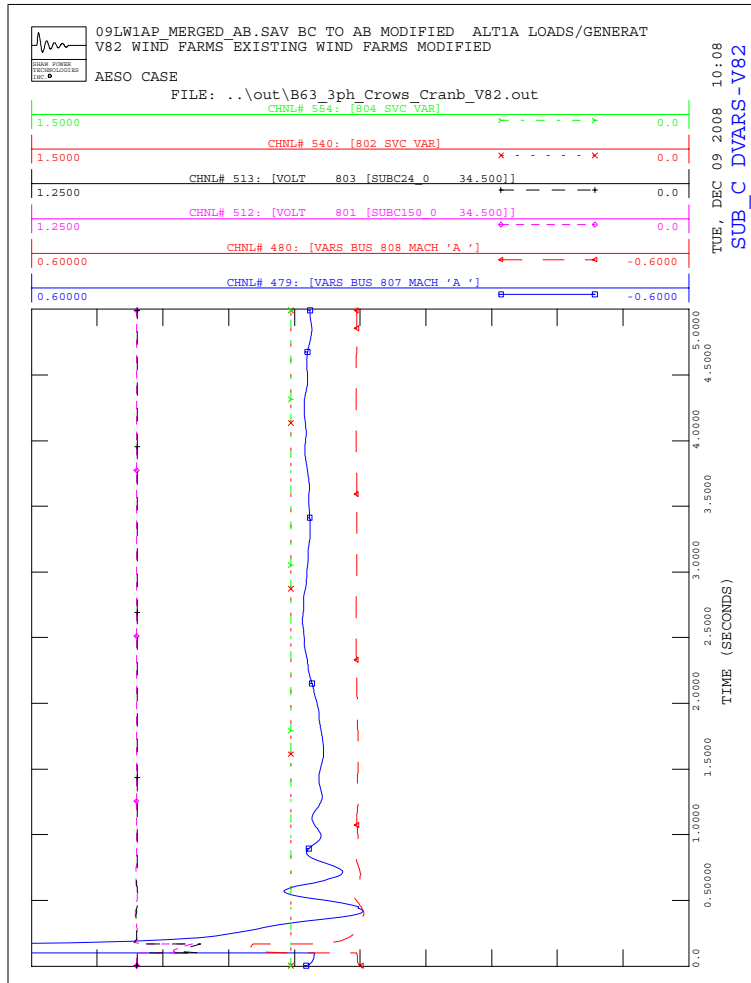


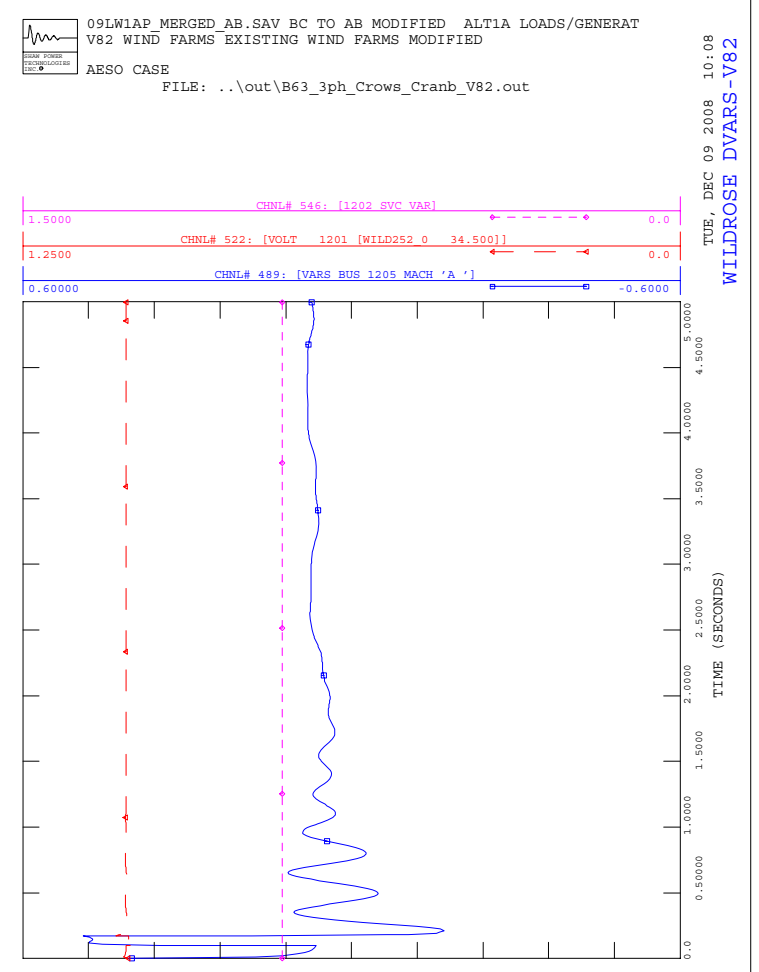
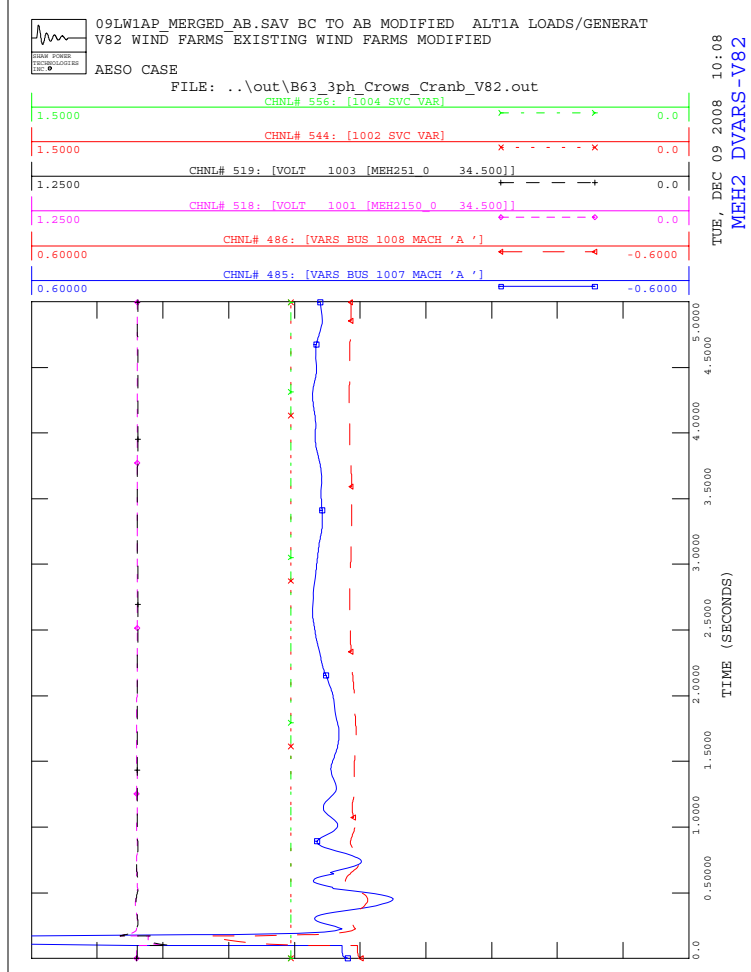
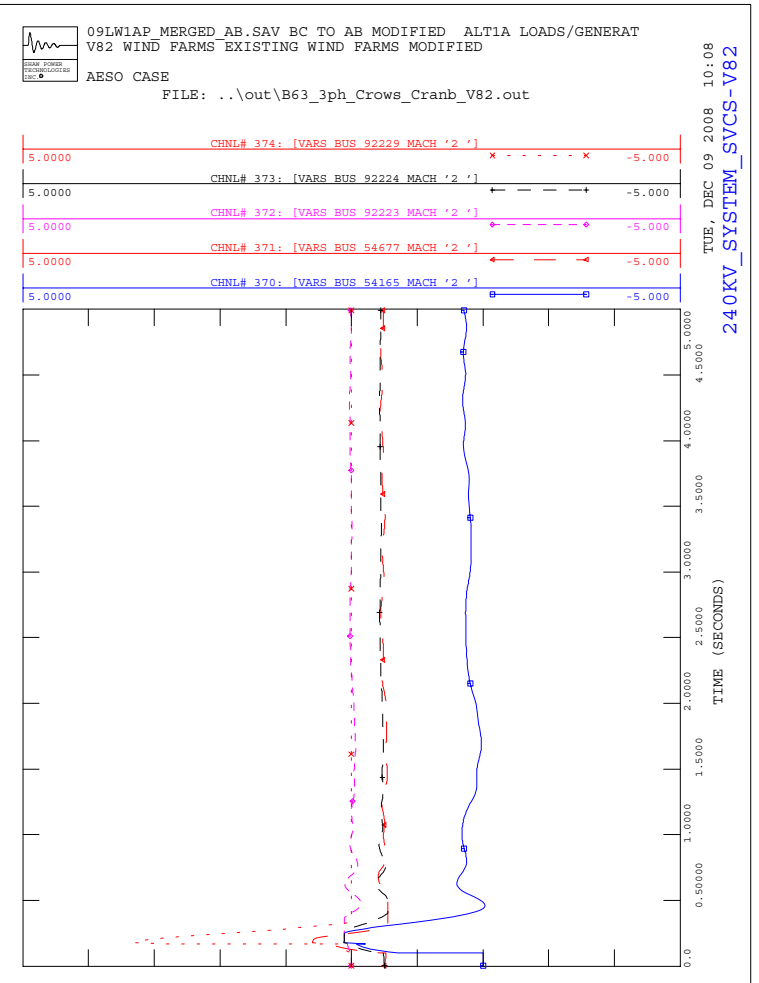
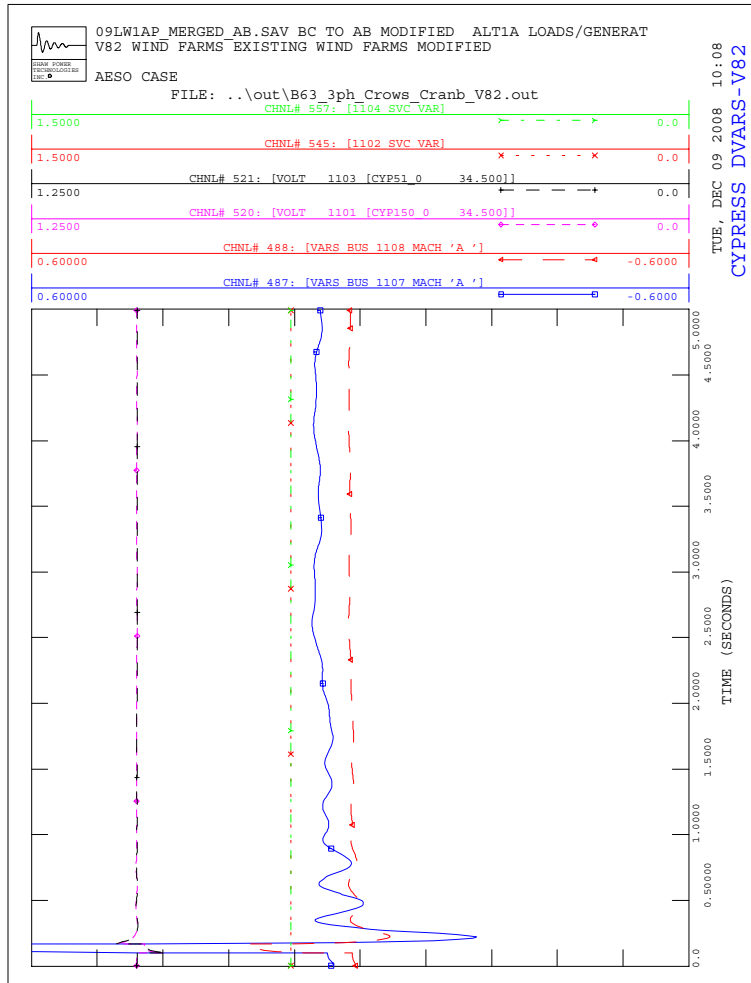








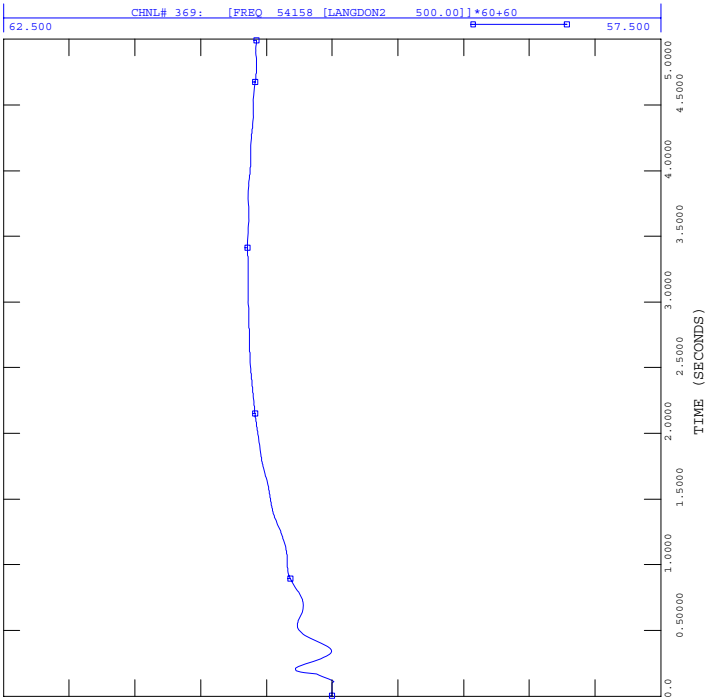






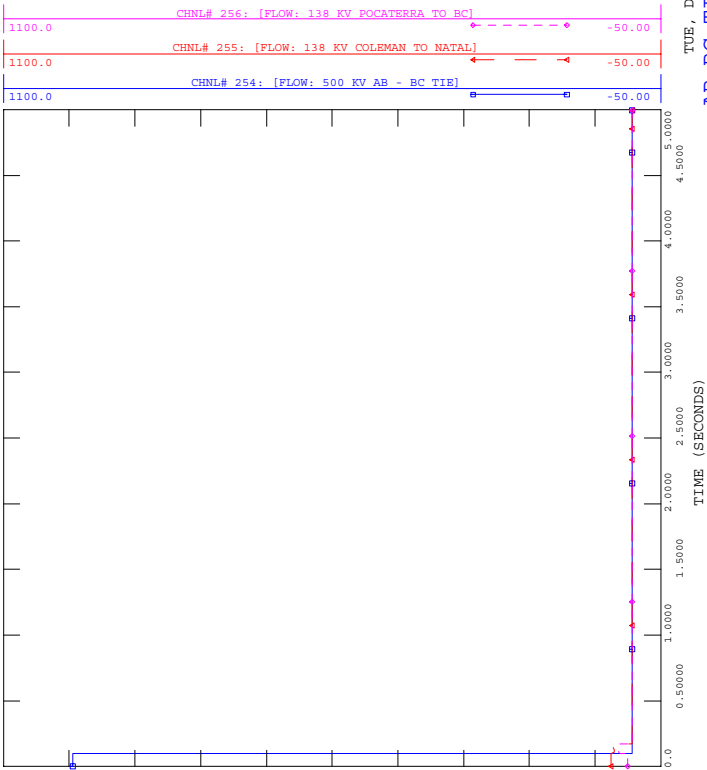
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ABSO CASE
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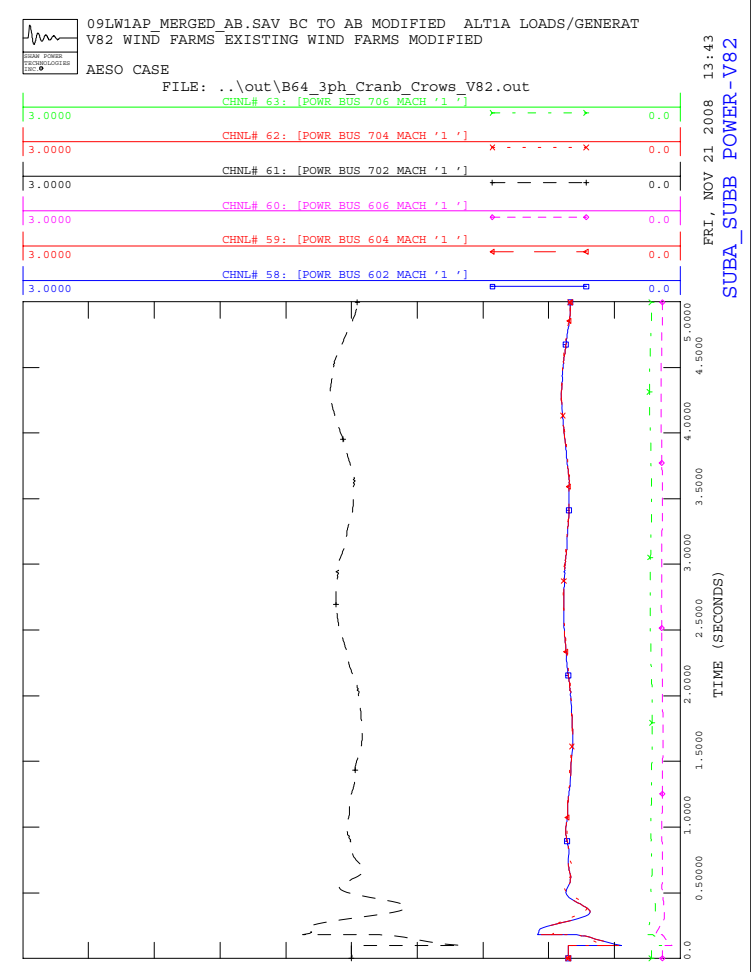
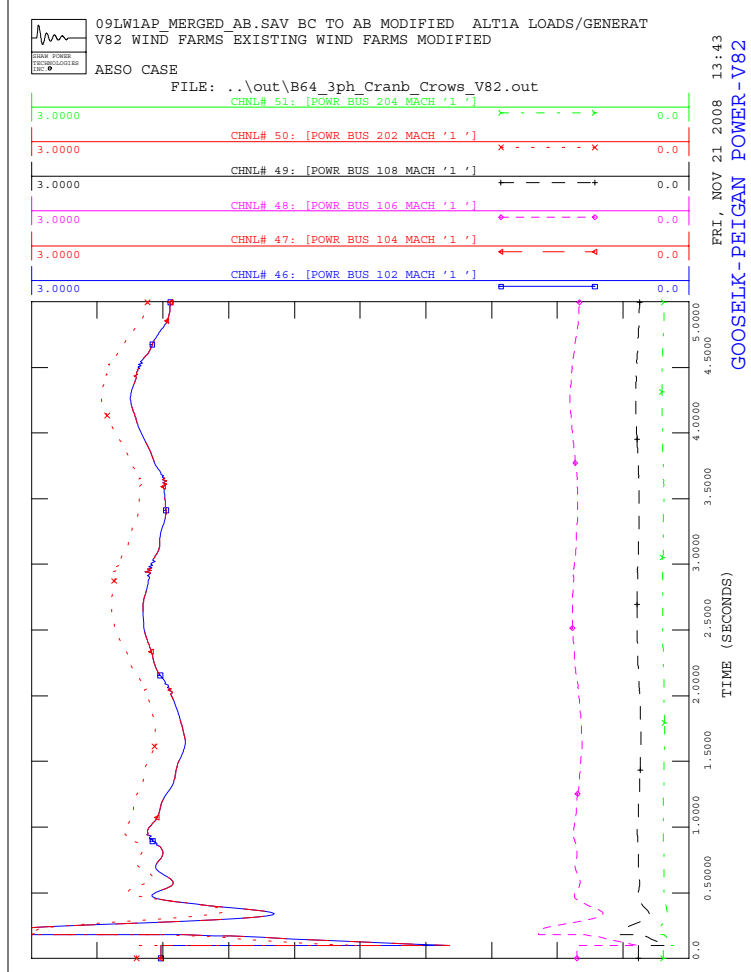
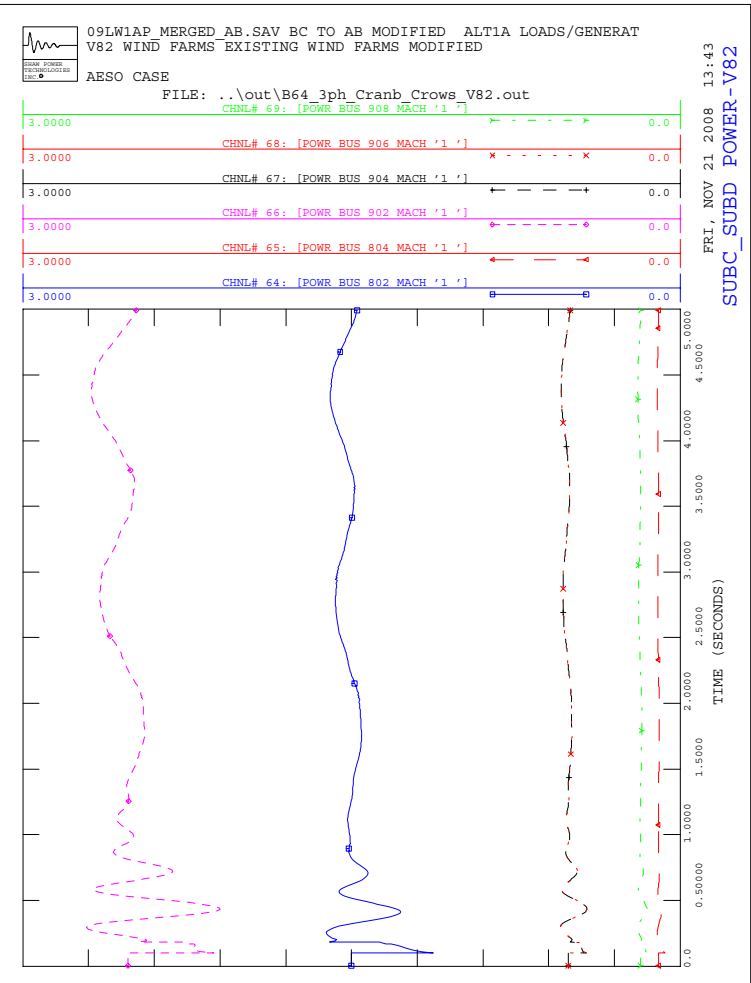
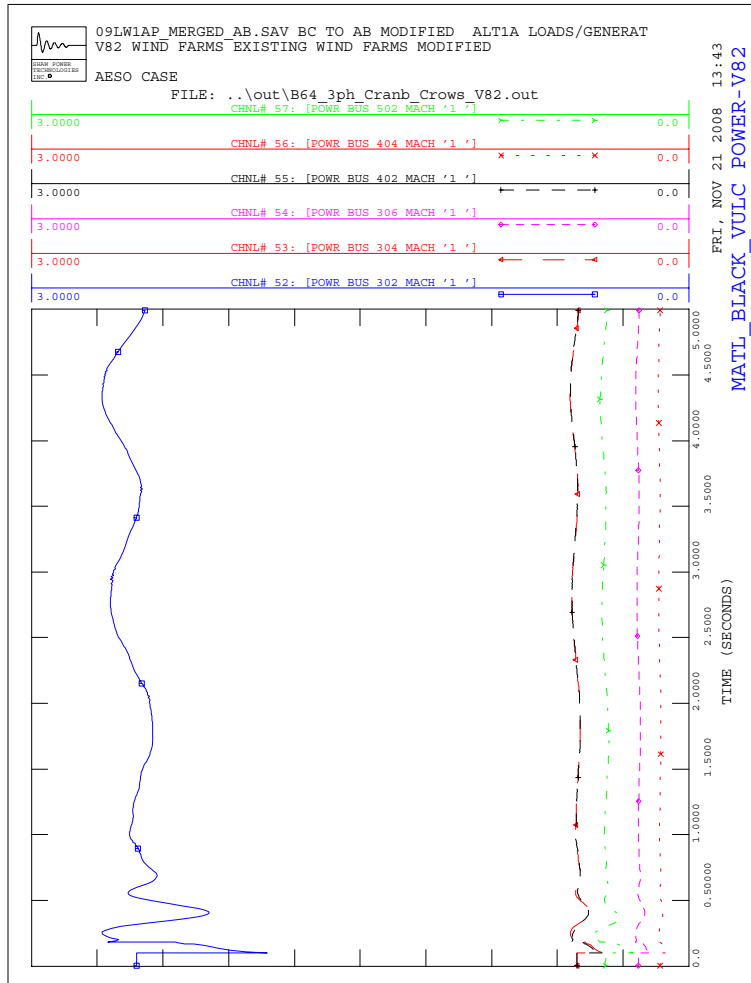
TUE, DEC 09 2008 10:08
LANGDON_FRQ-V82

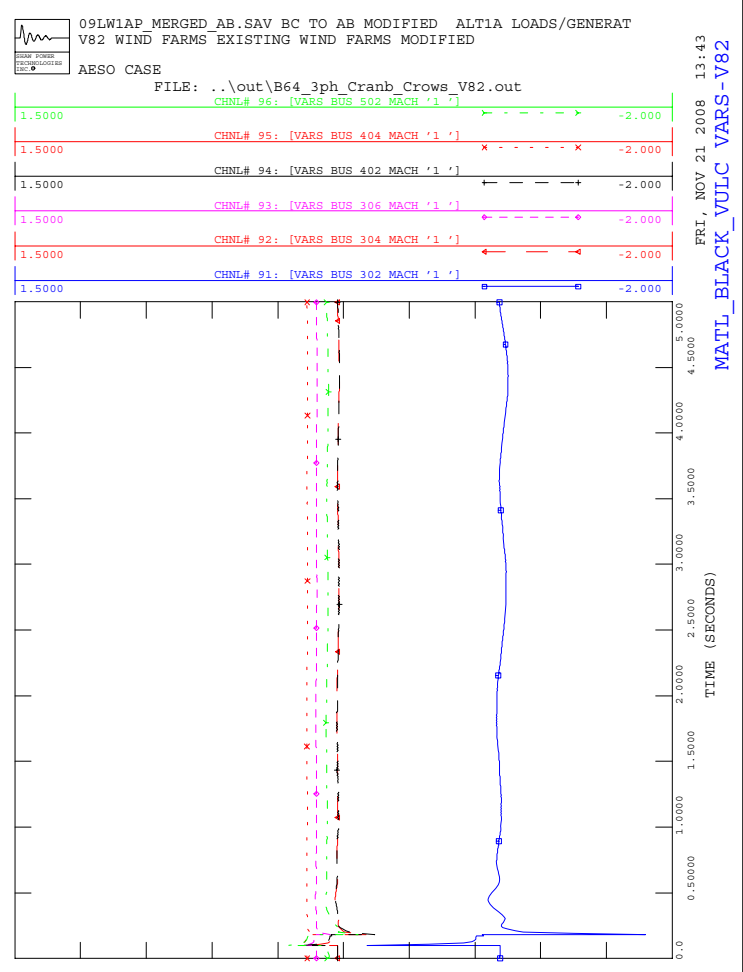
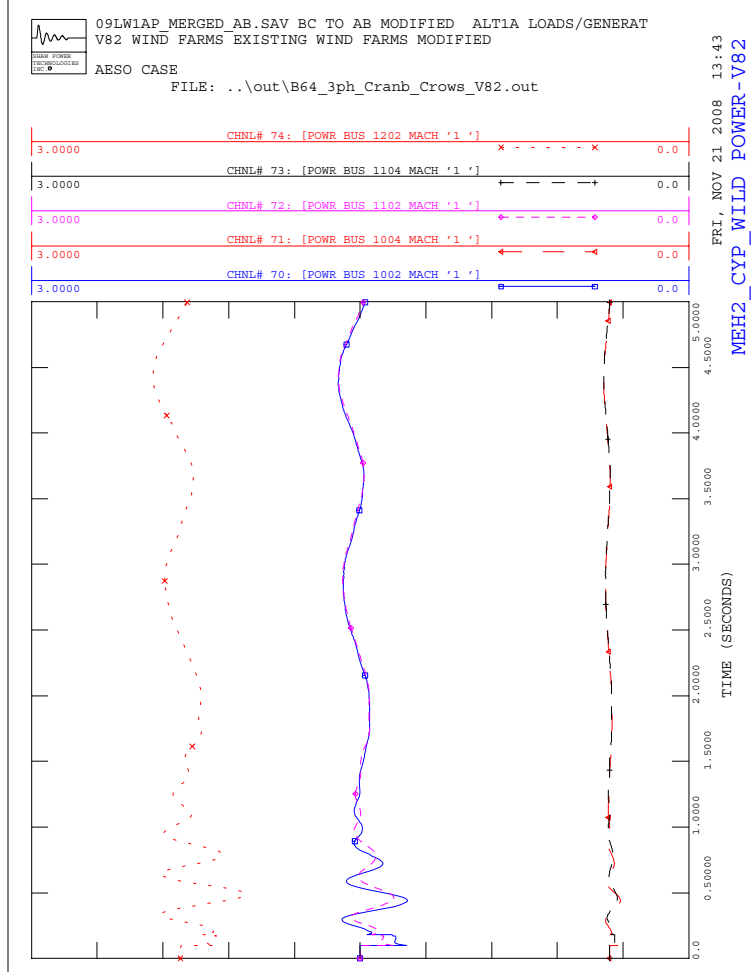
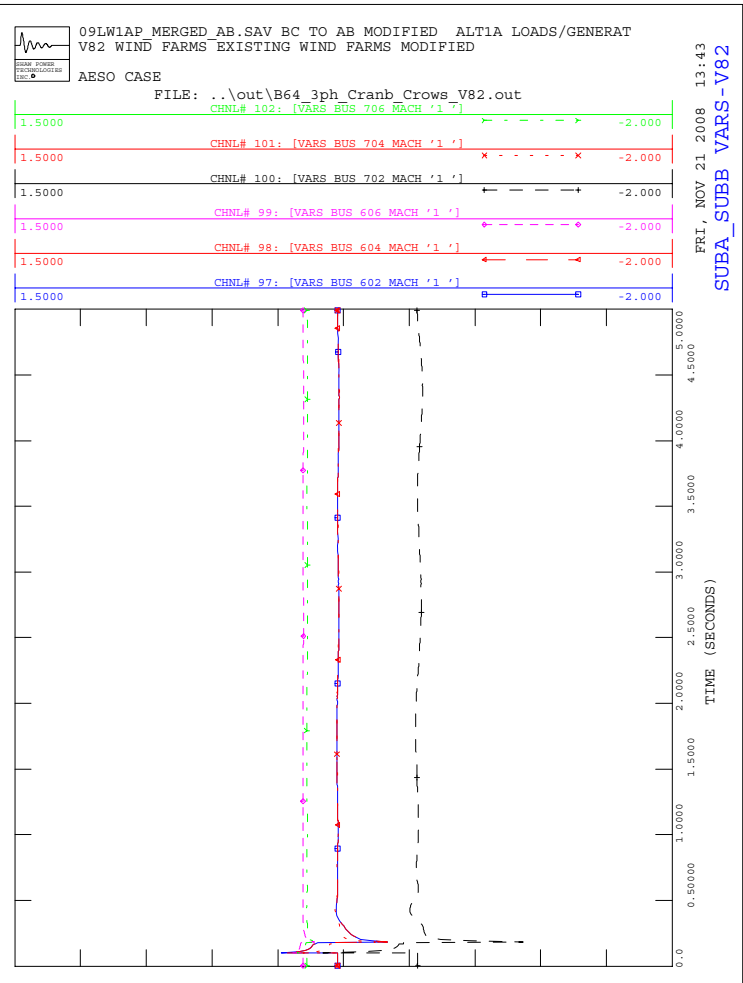
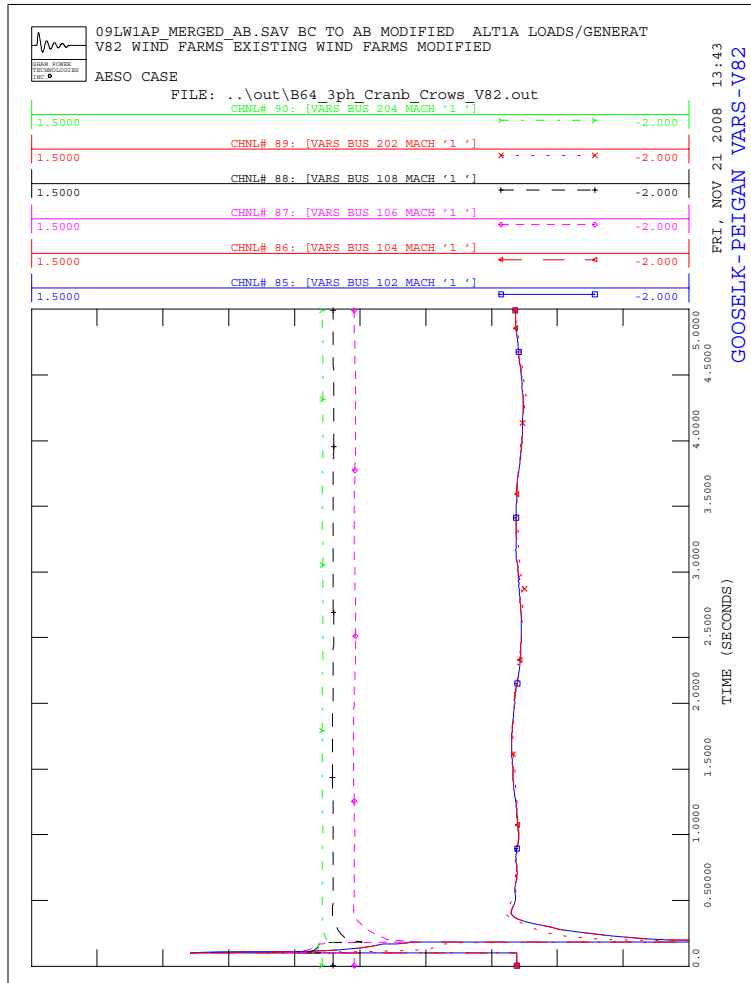


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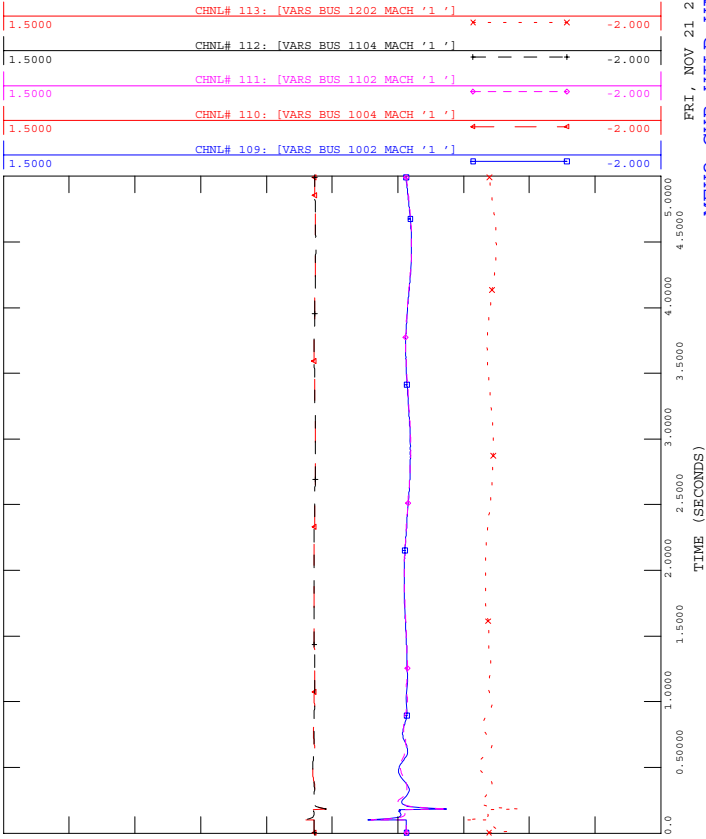






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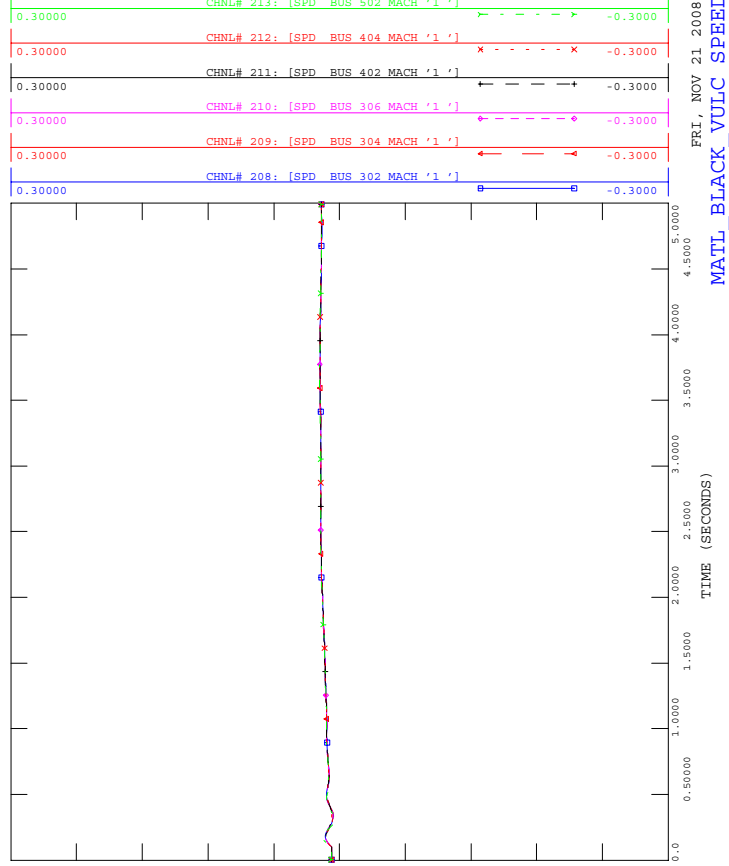
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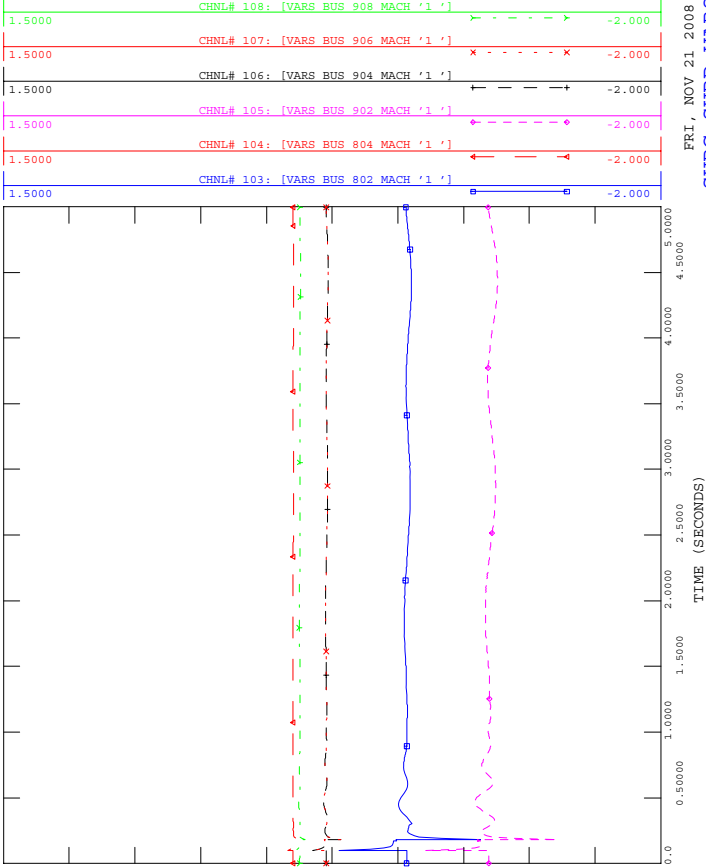
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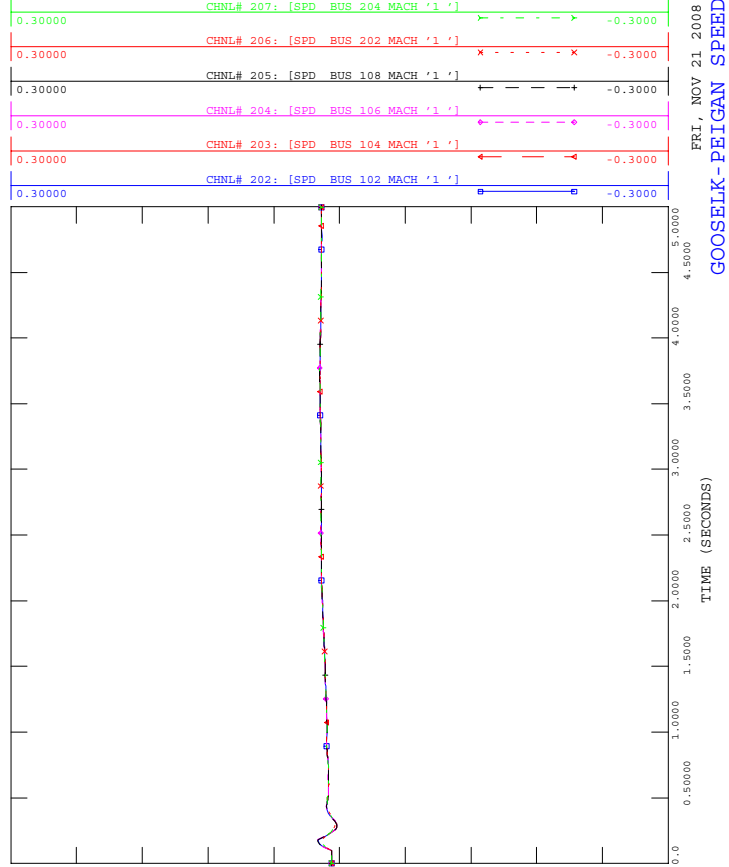
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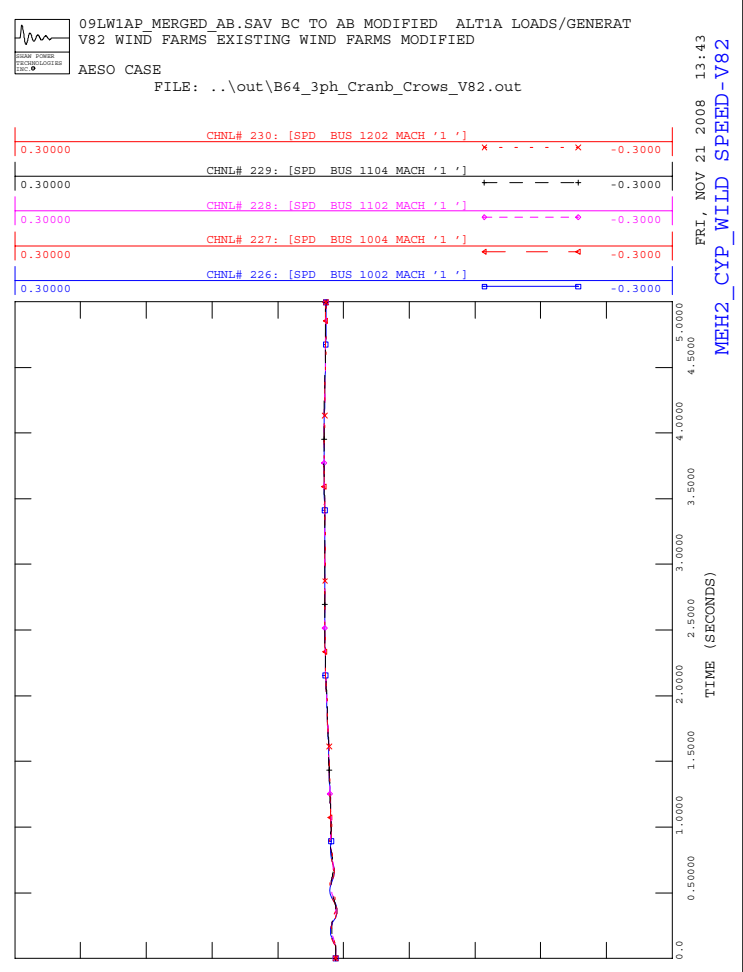
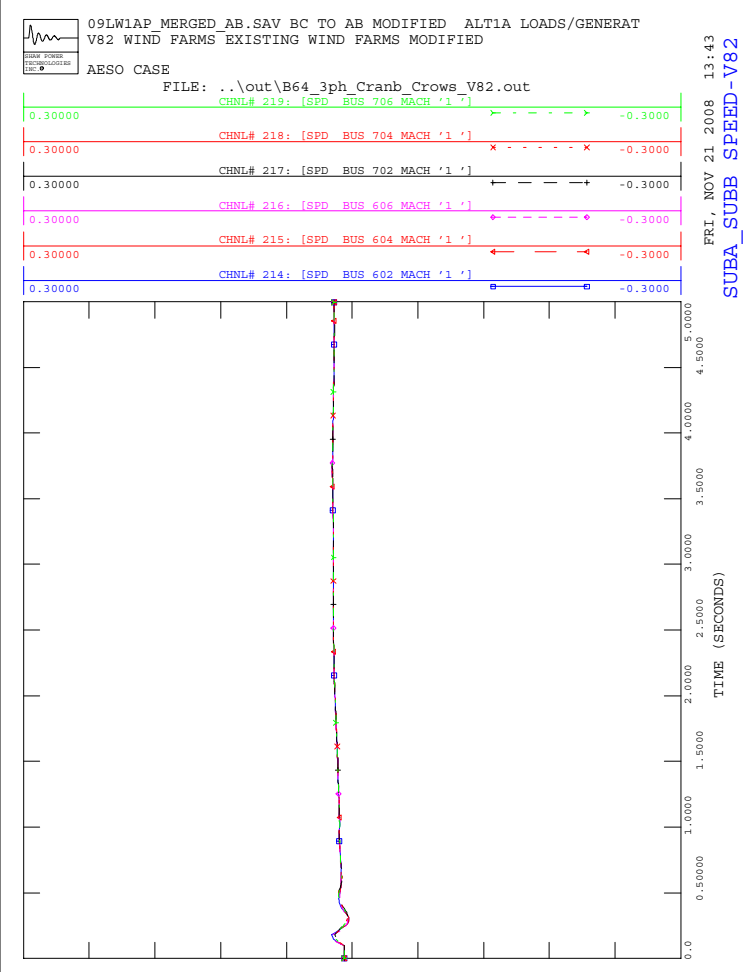
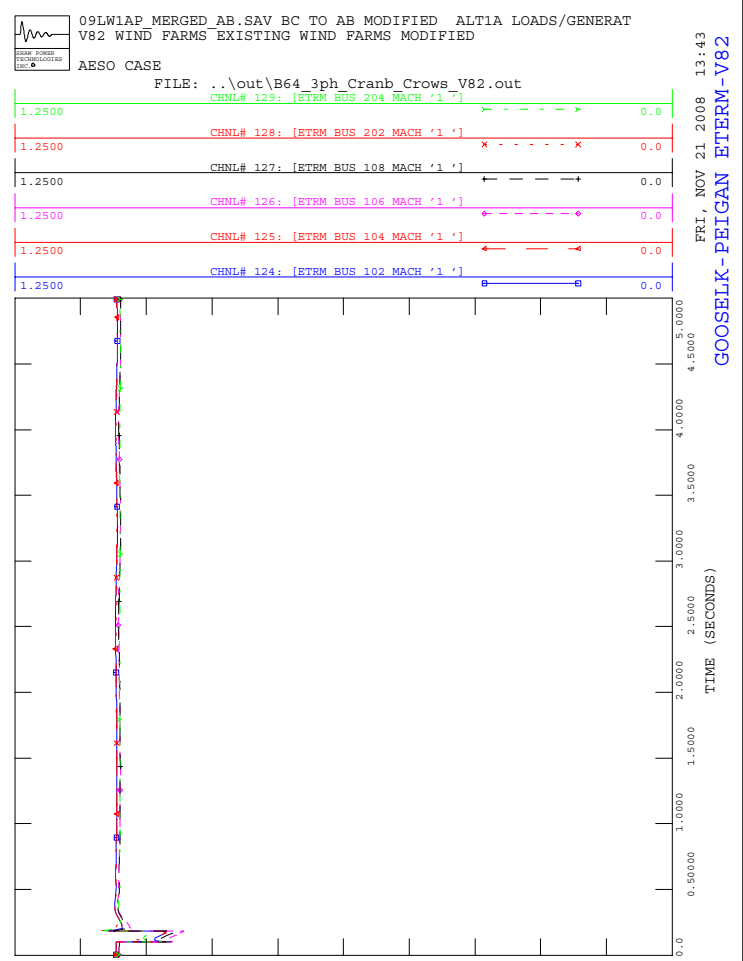
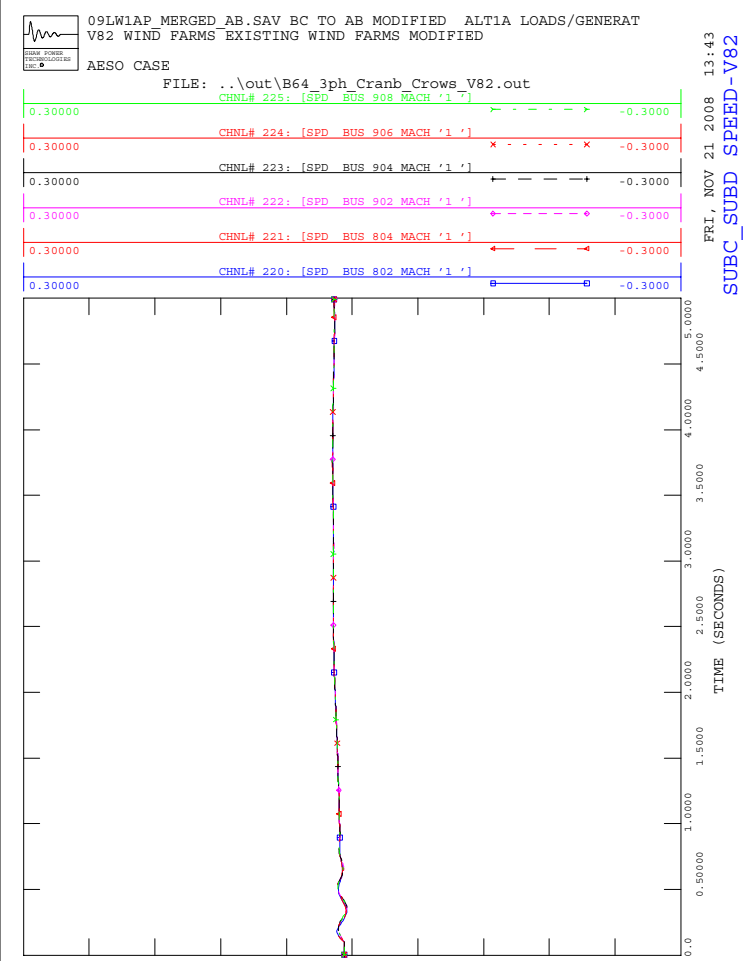
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 SUBC_SUBD_VARS-V82

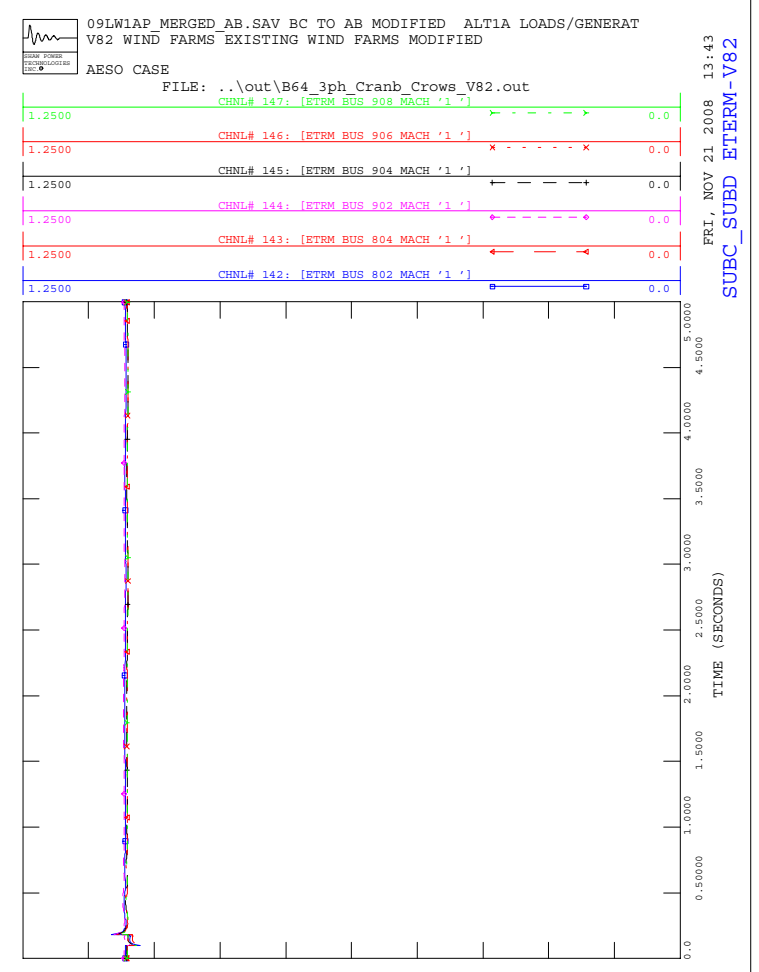
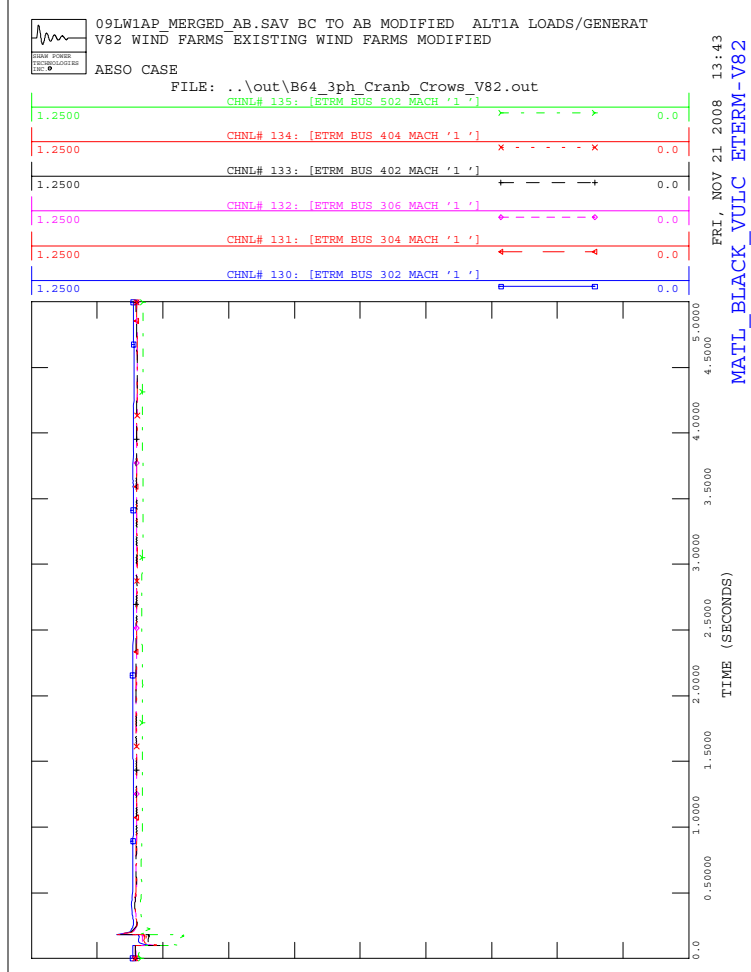
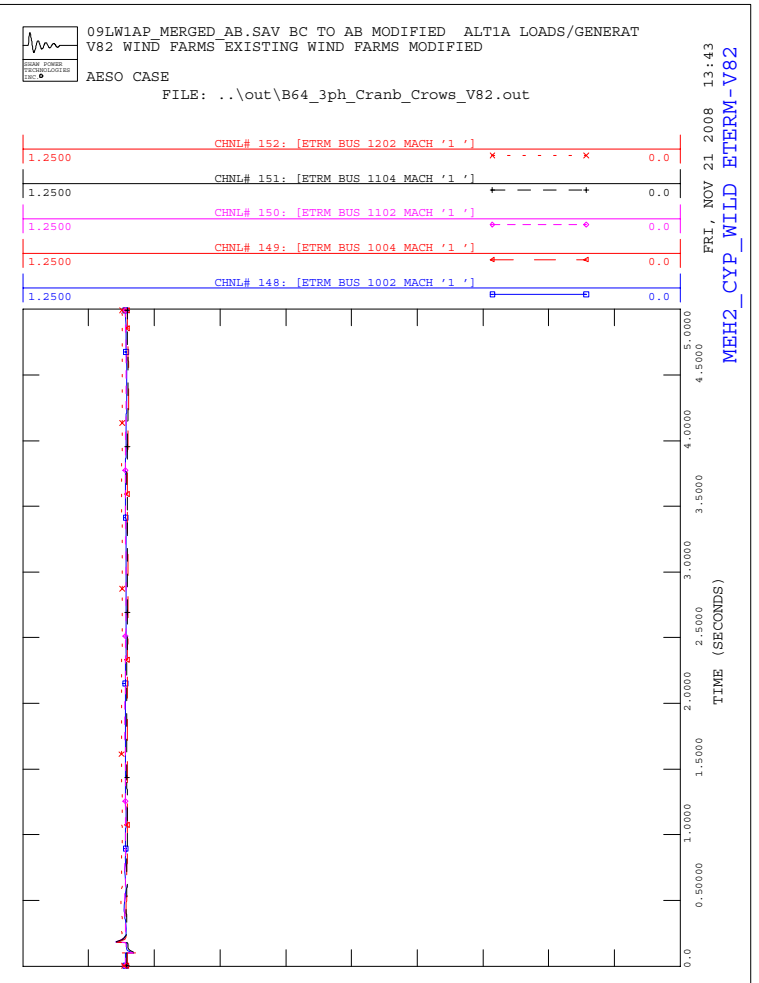
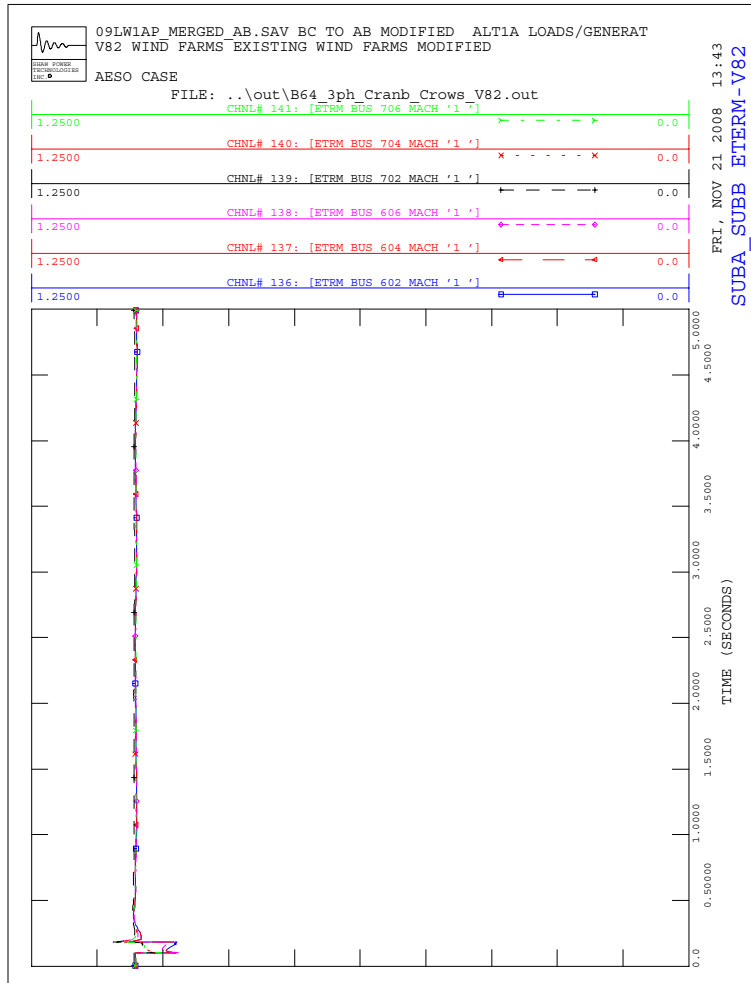
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 AESO CASE

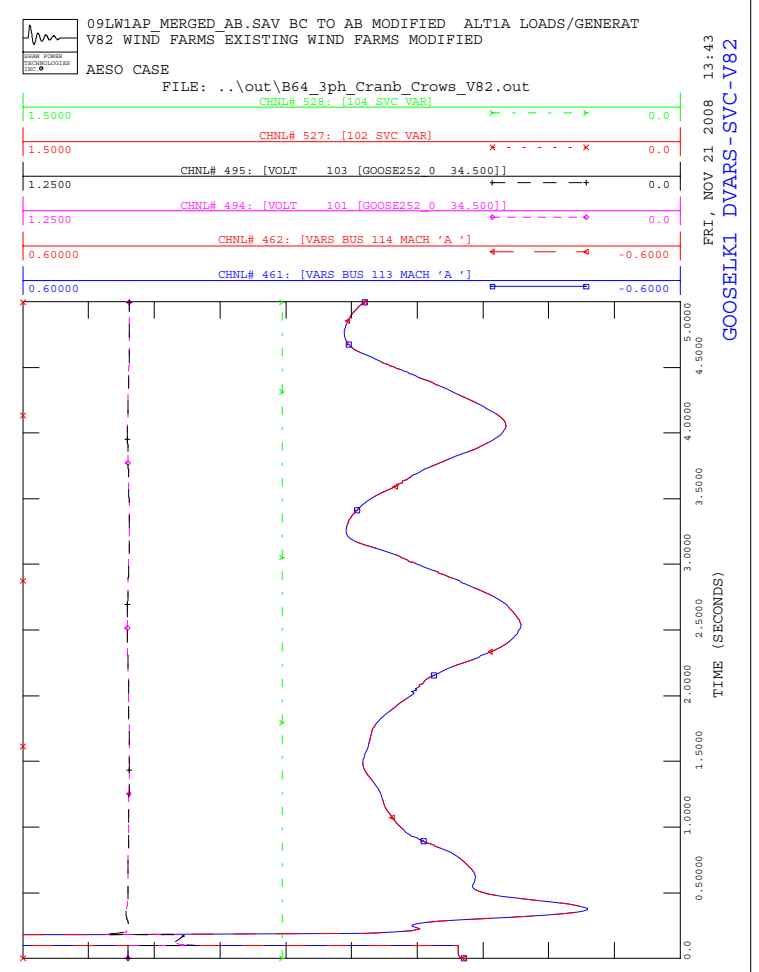
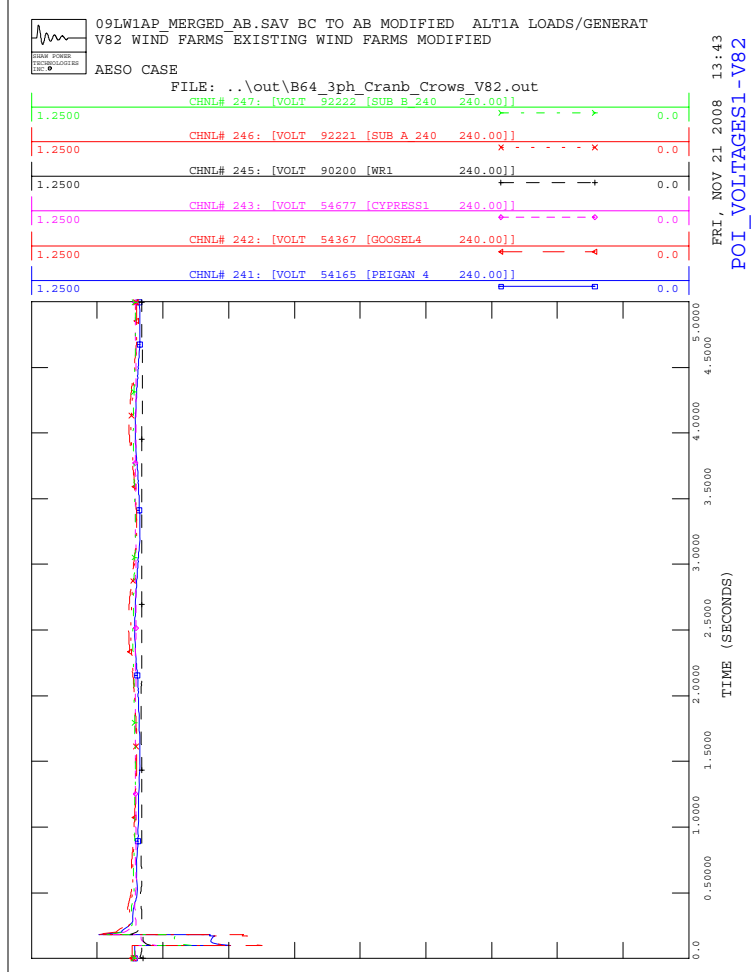
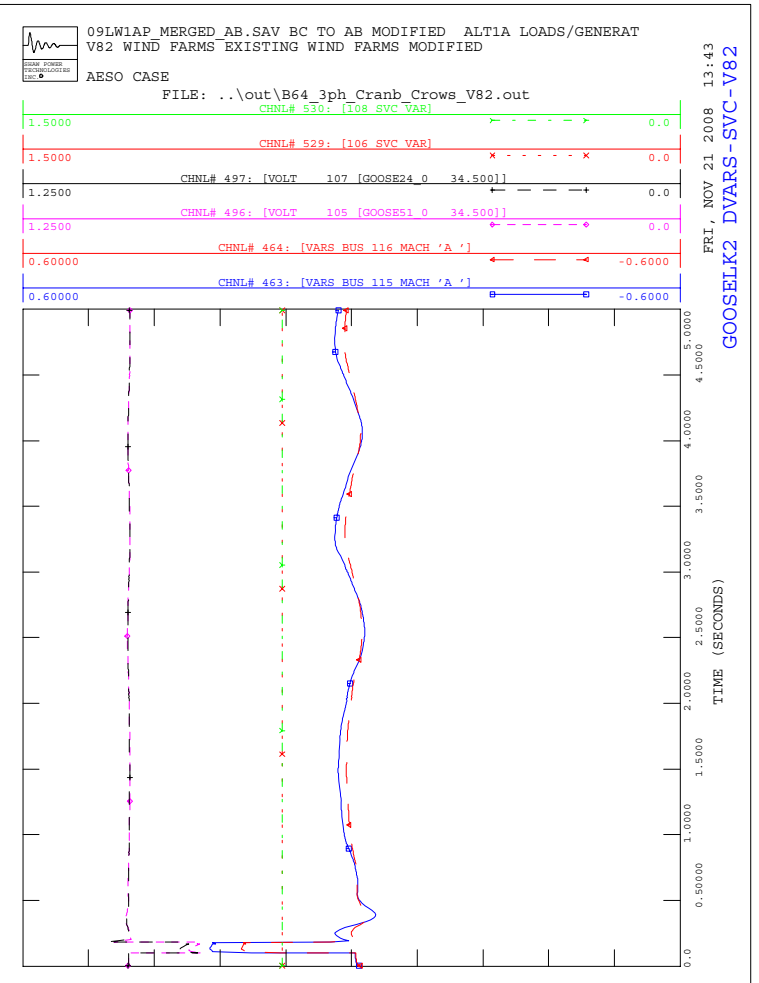
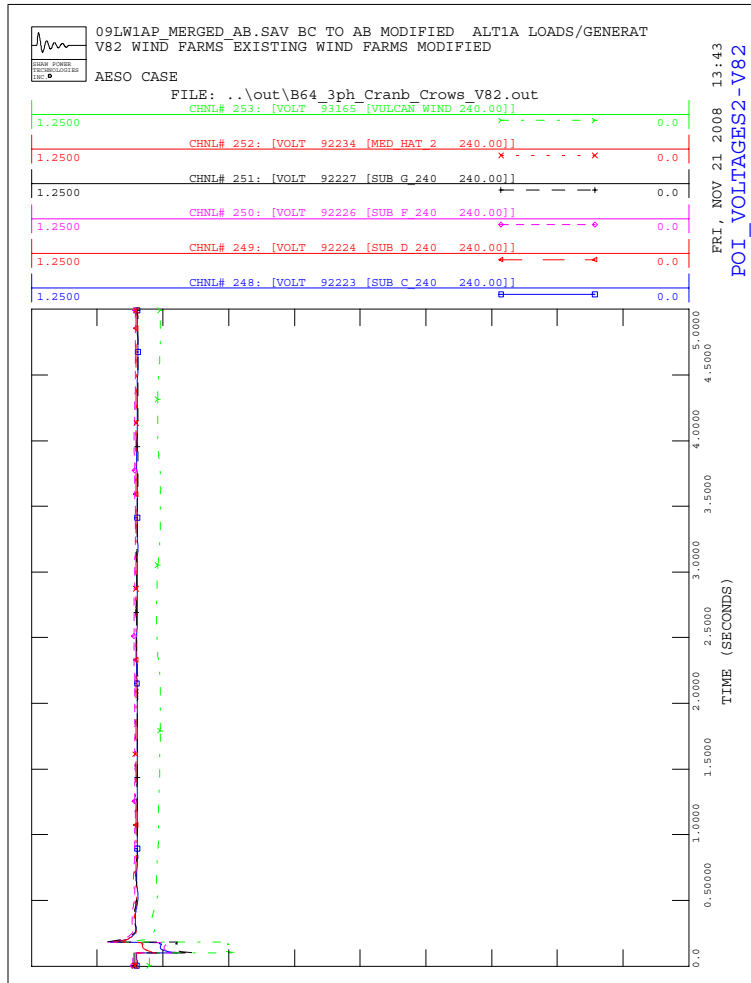
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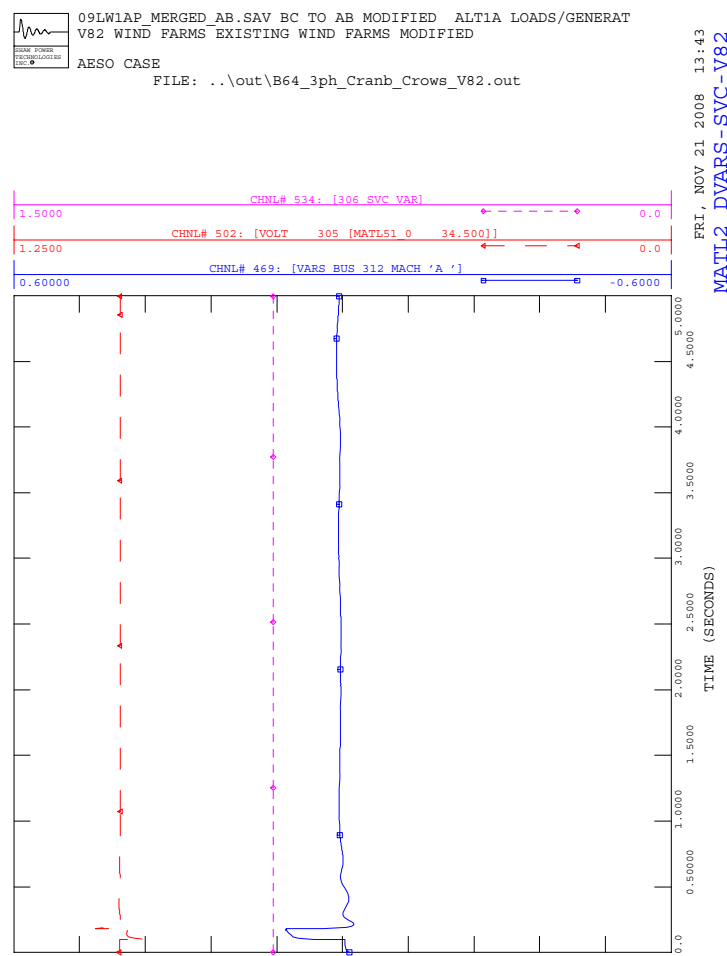
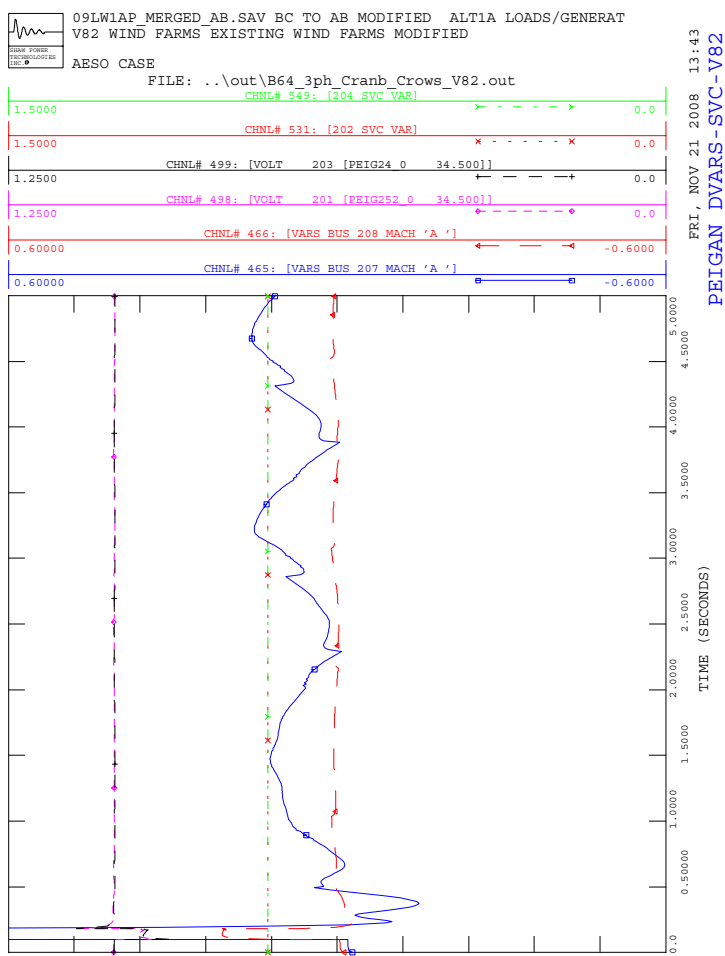
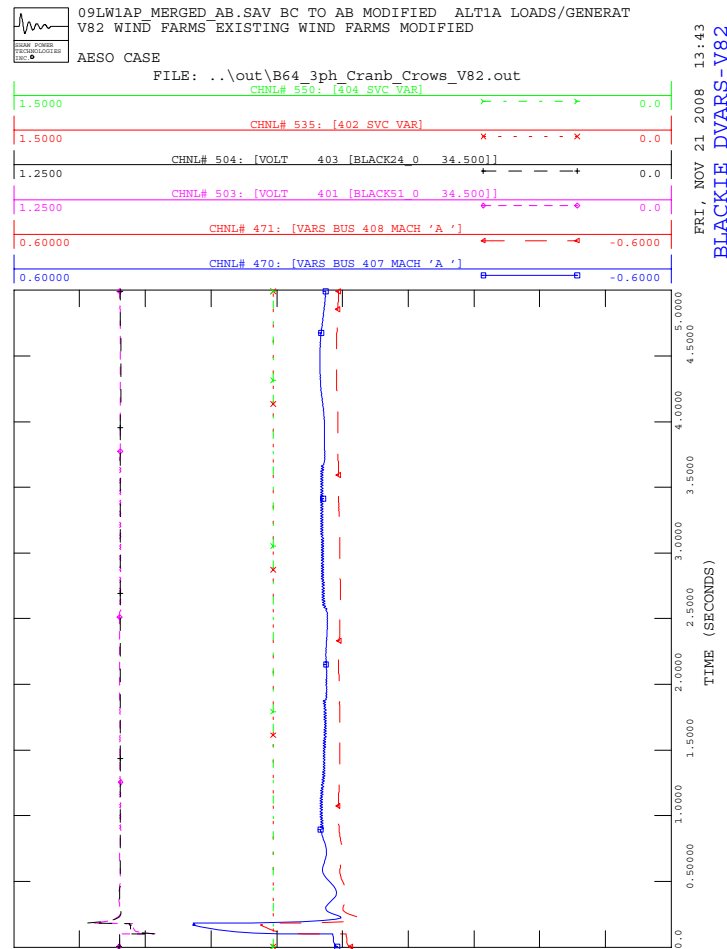
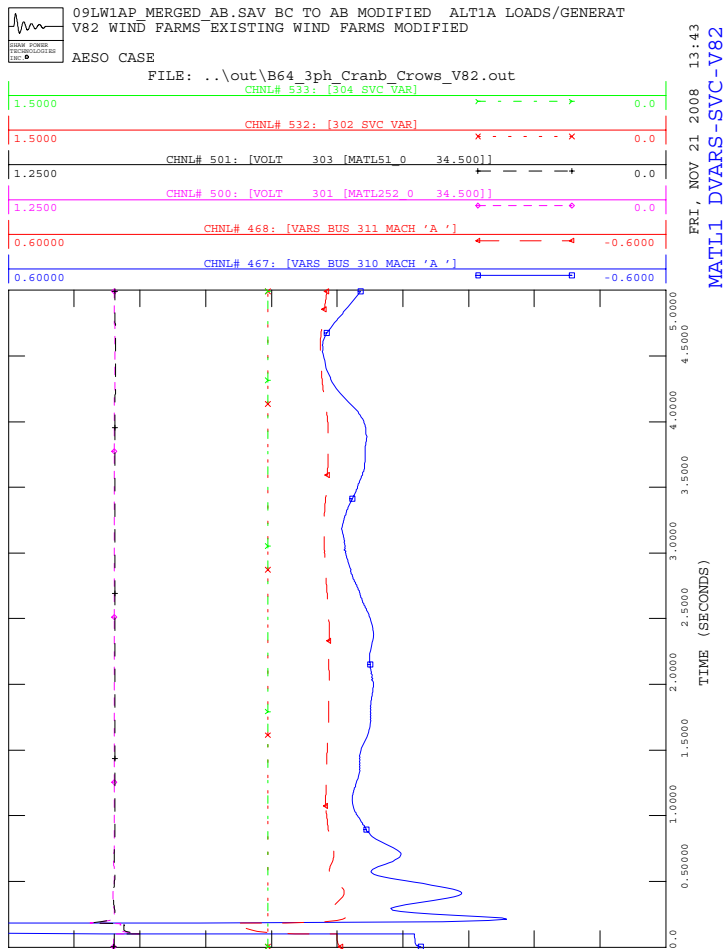


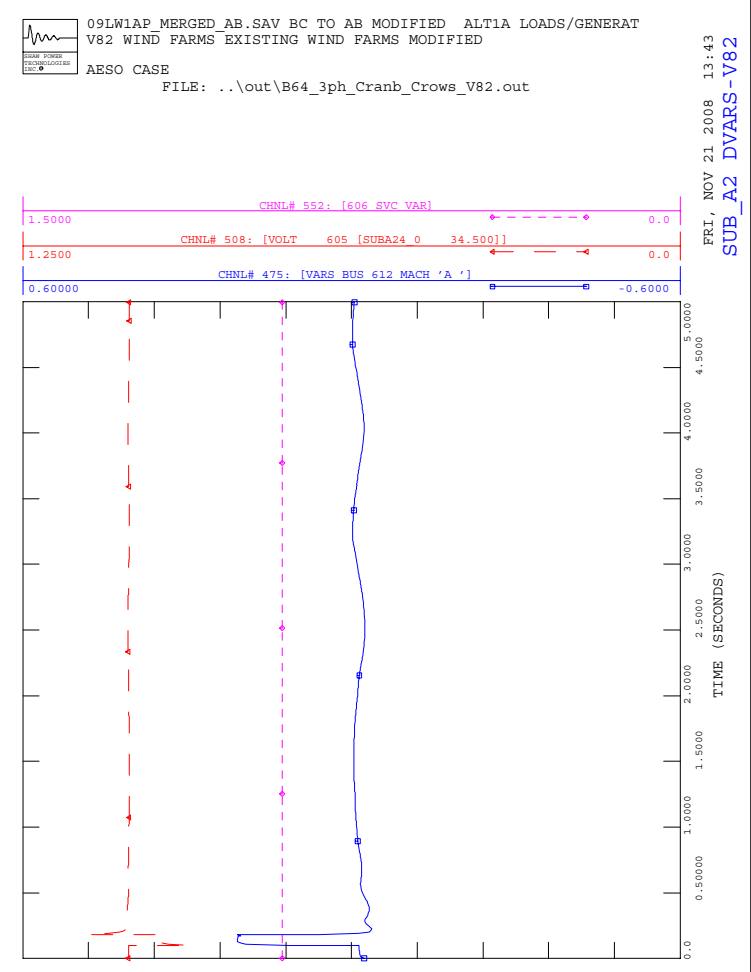
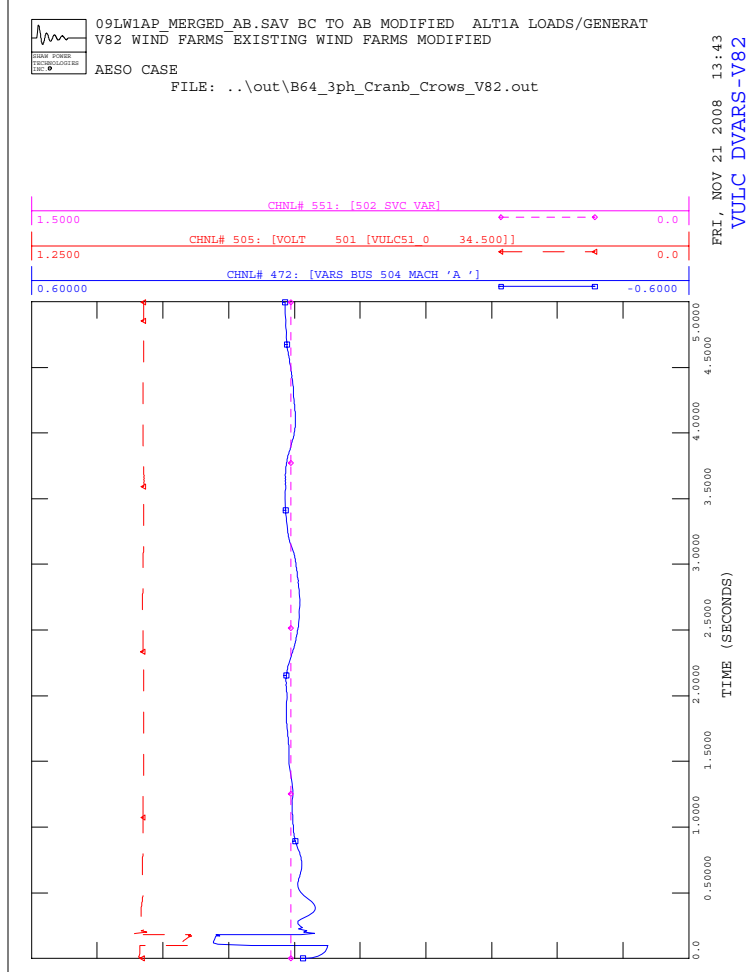
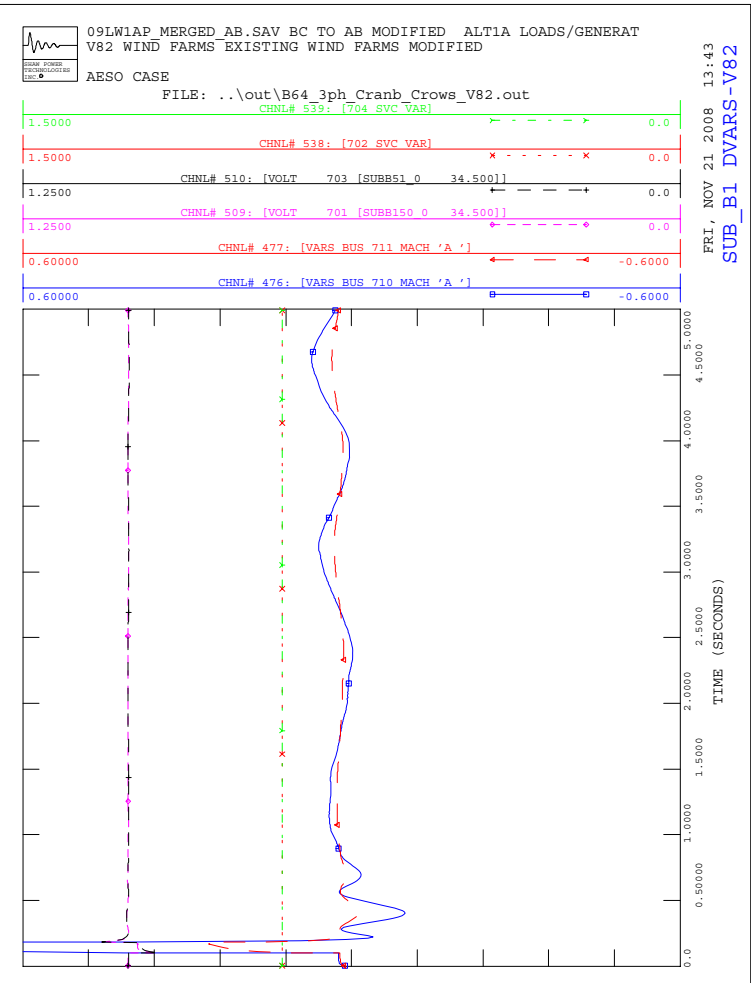
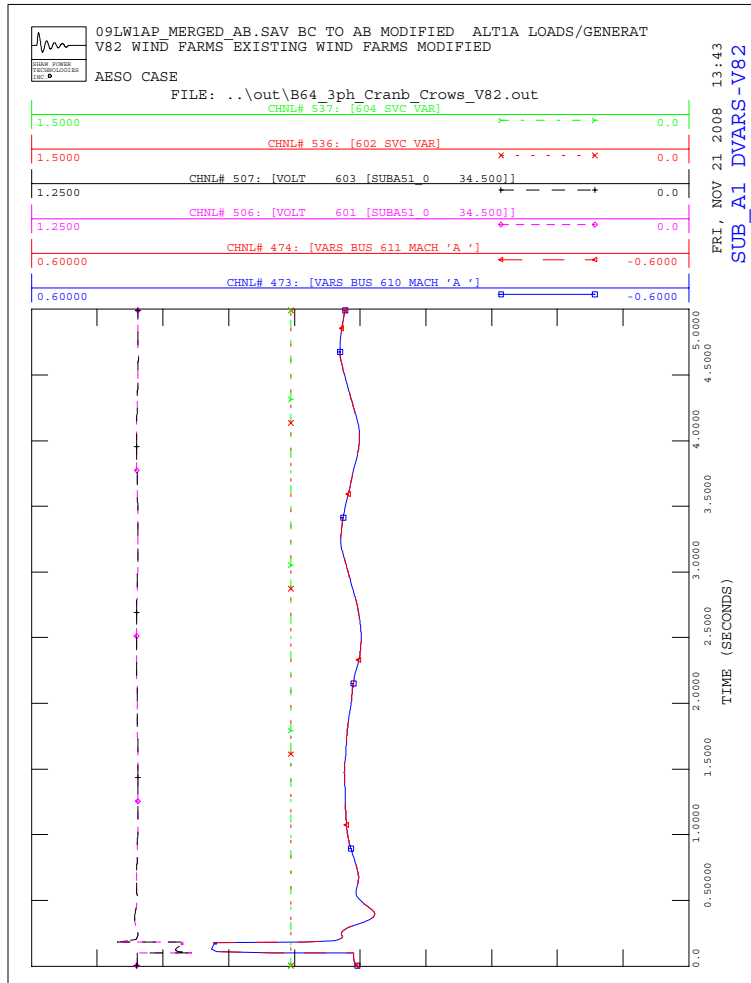
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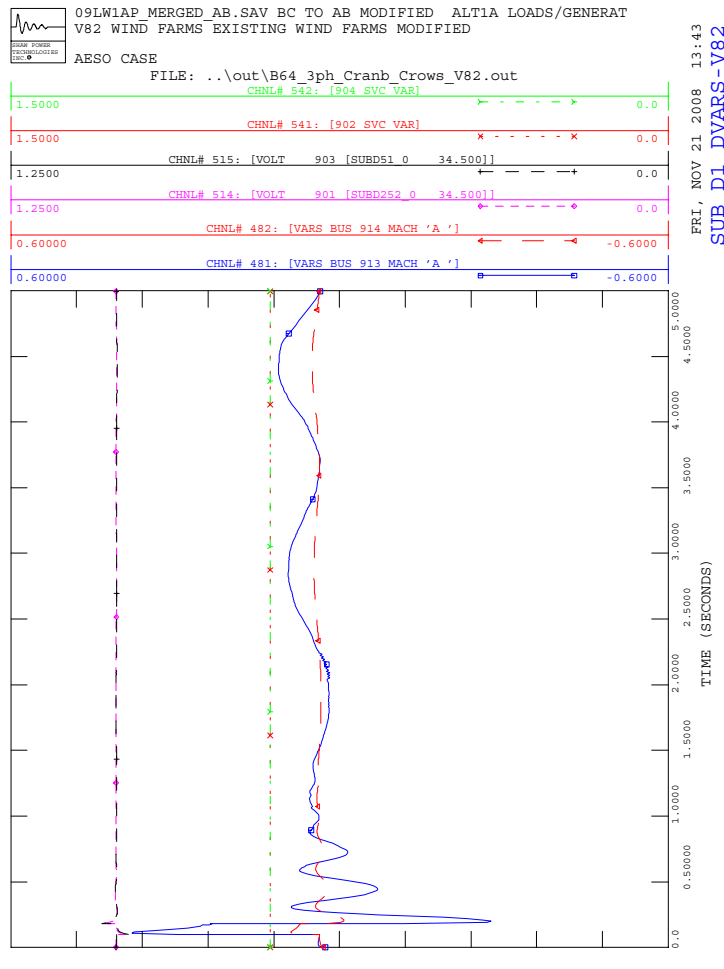
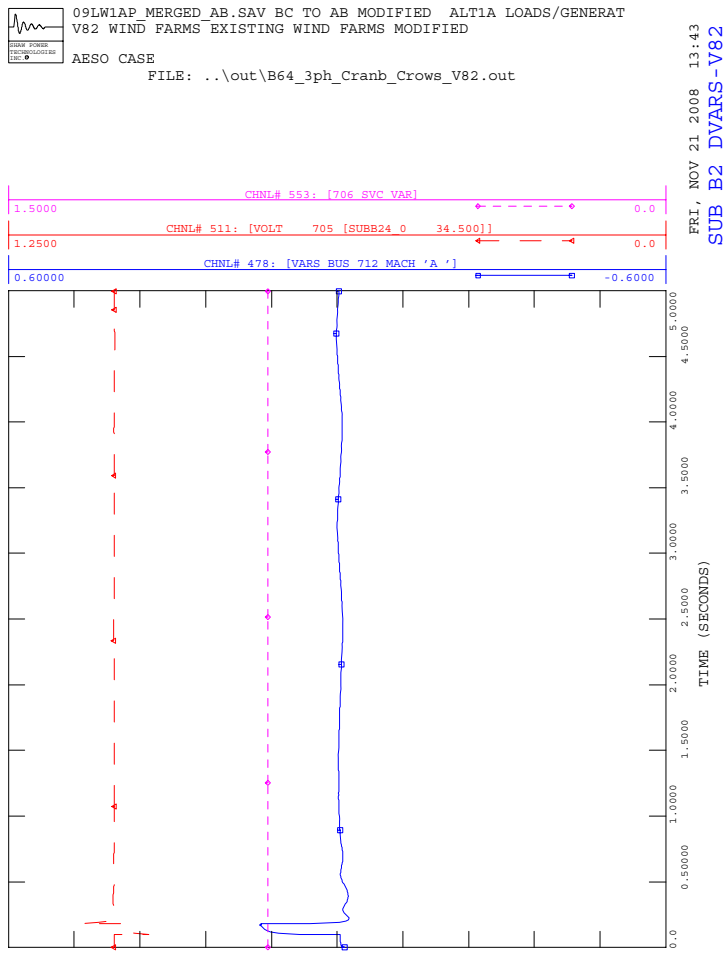
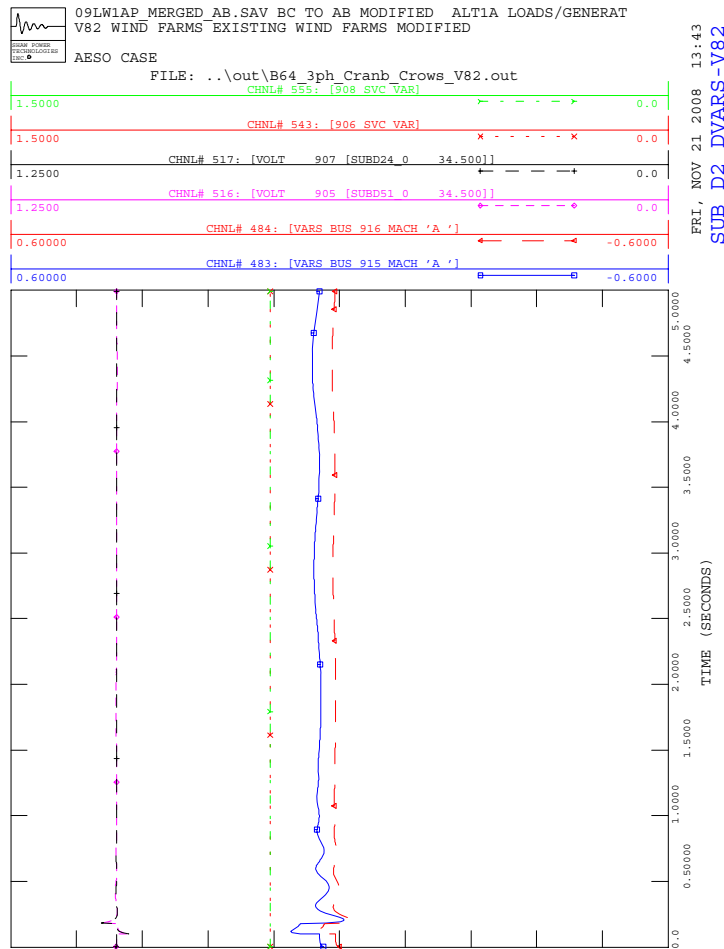
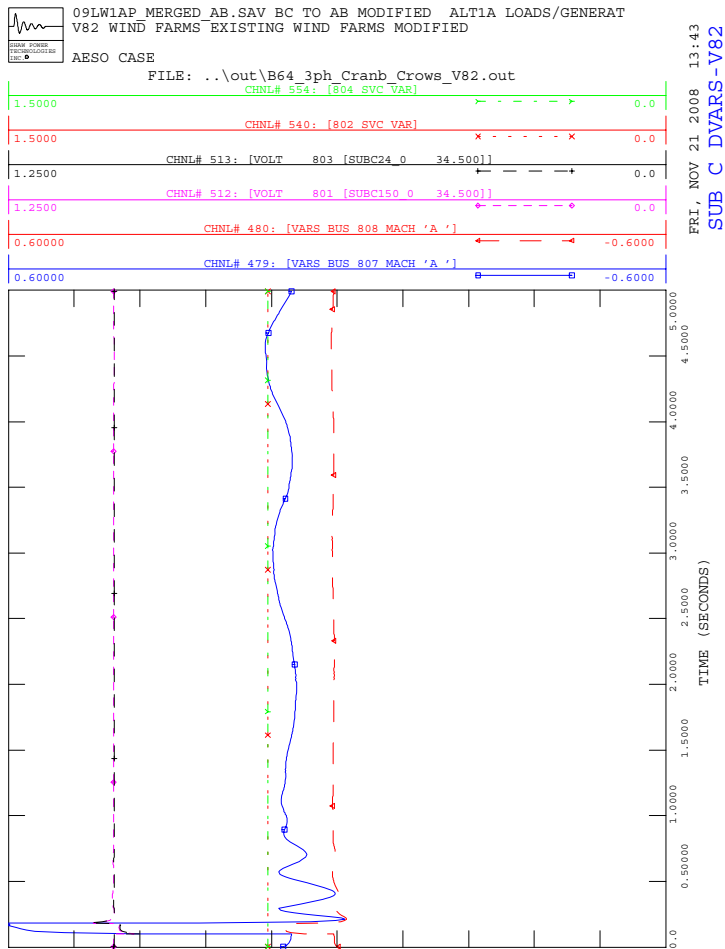


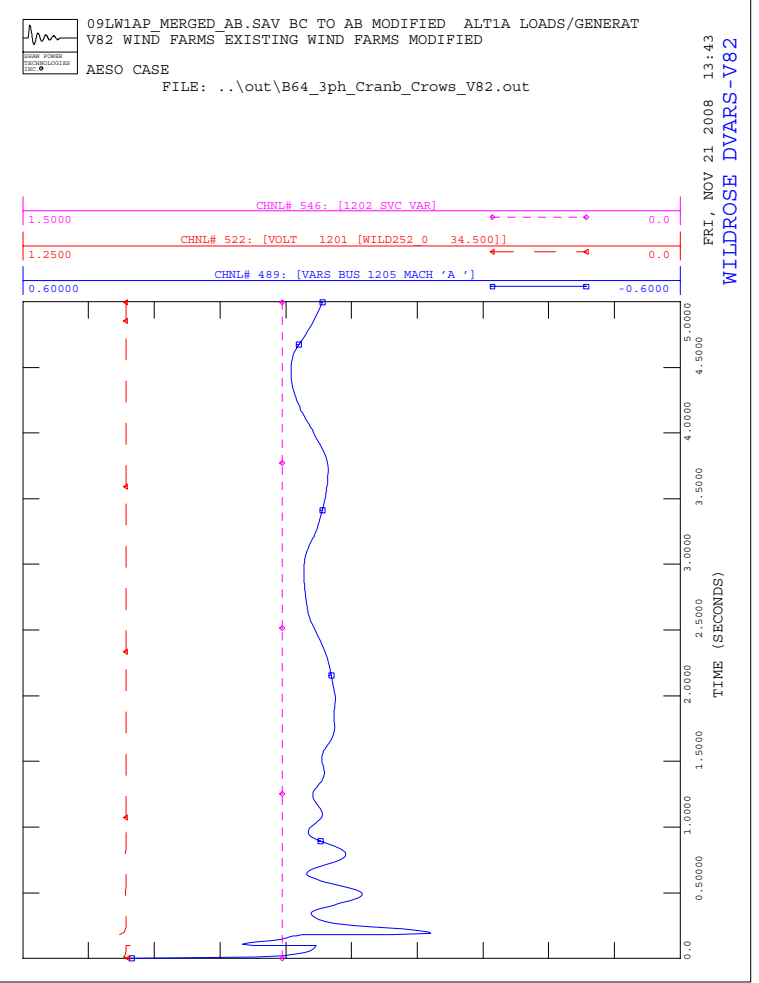
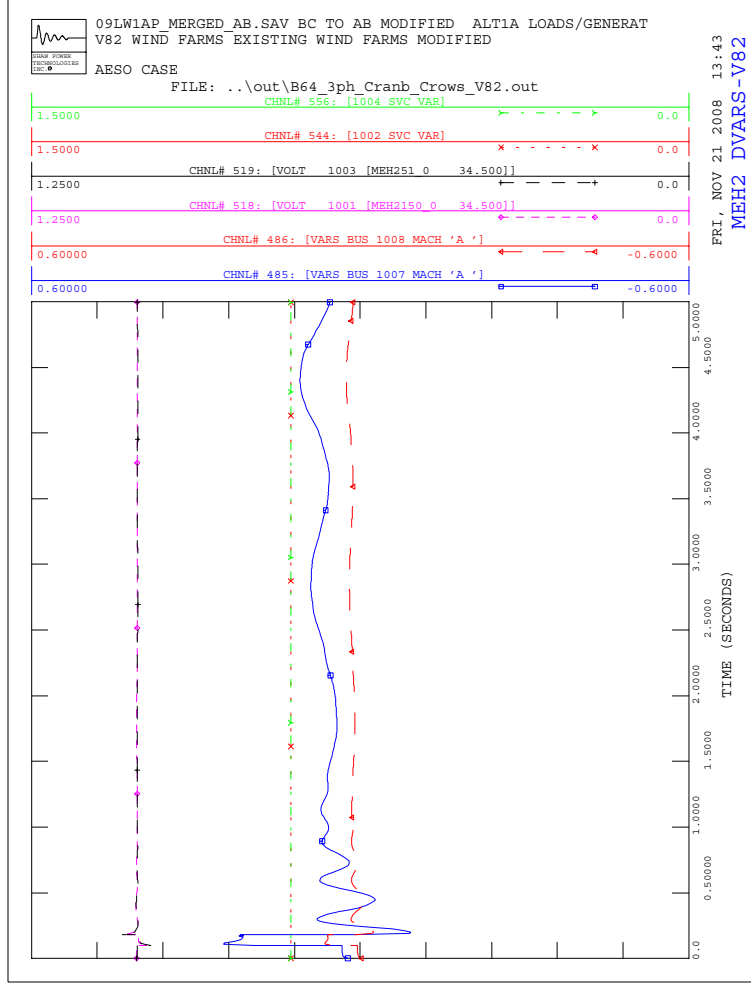
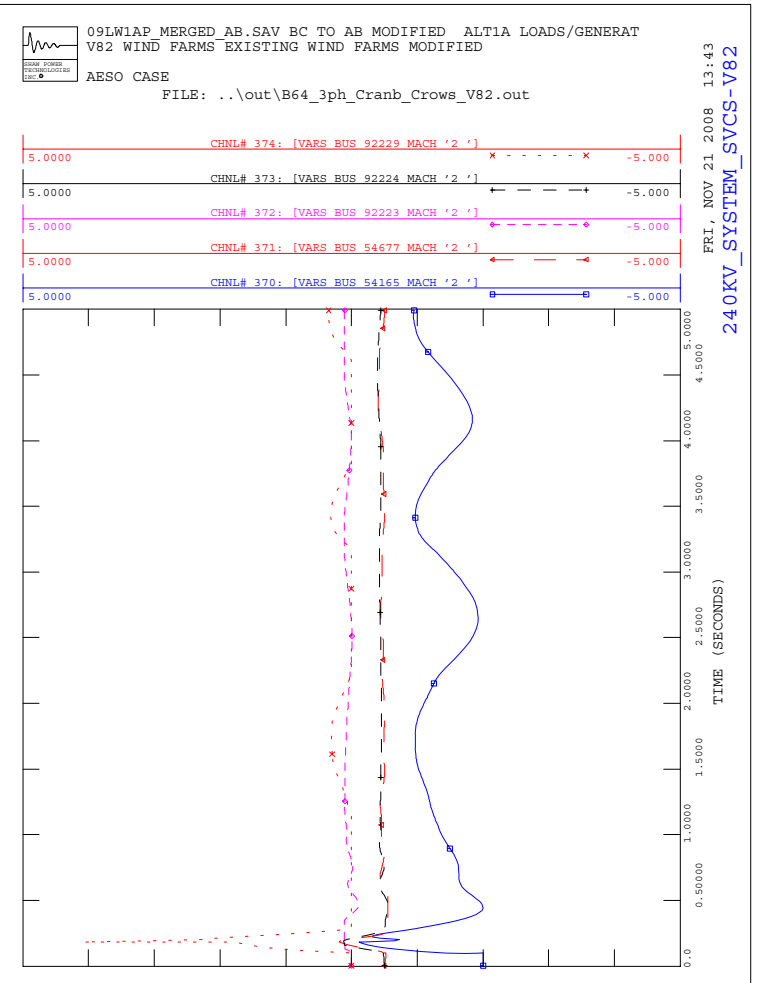
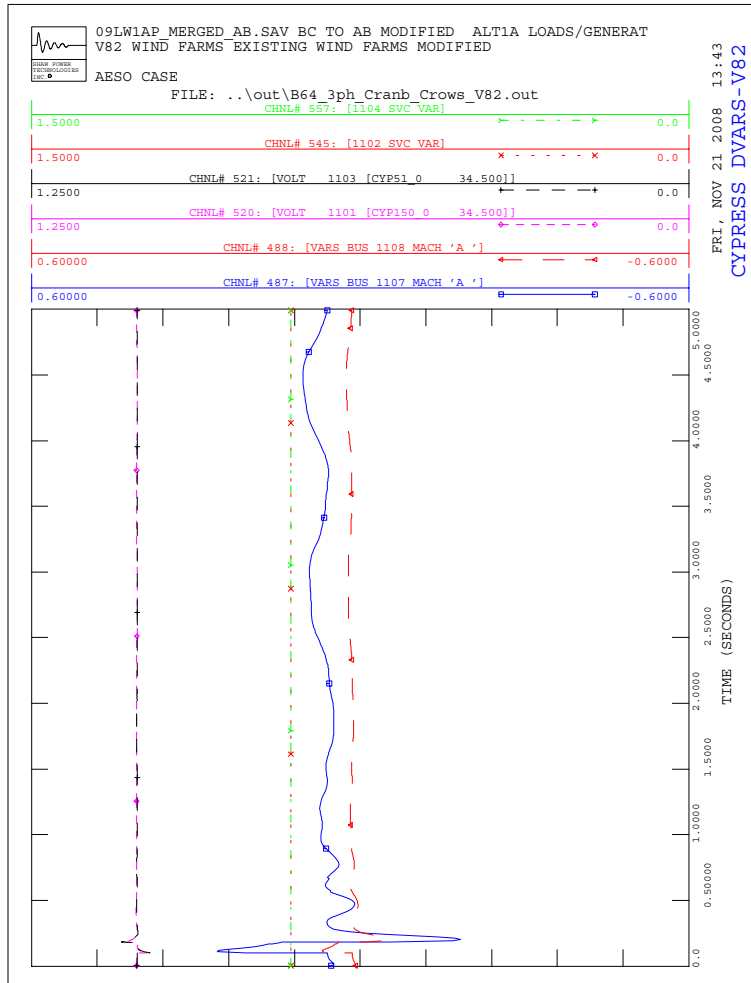








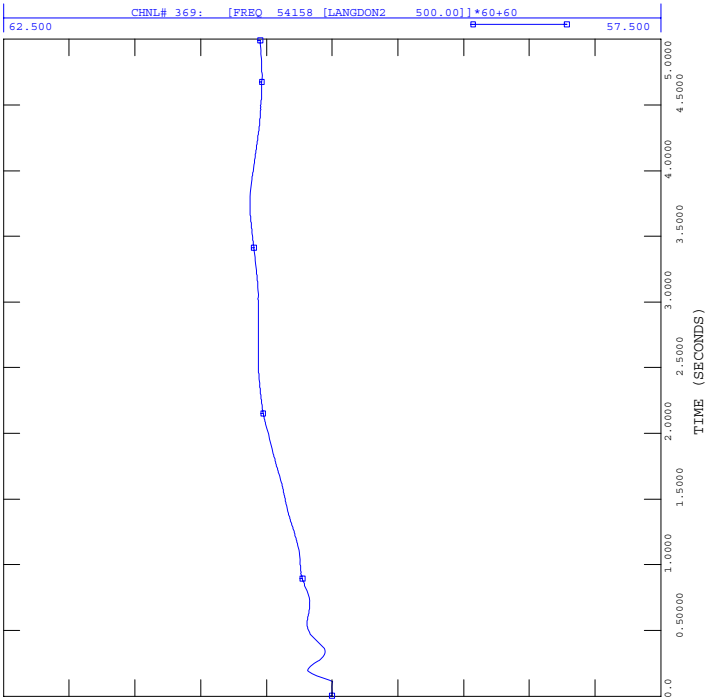






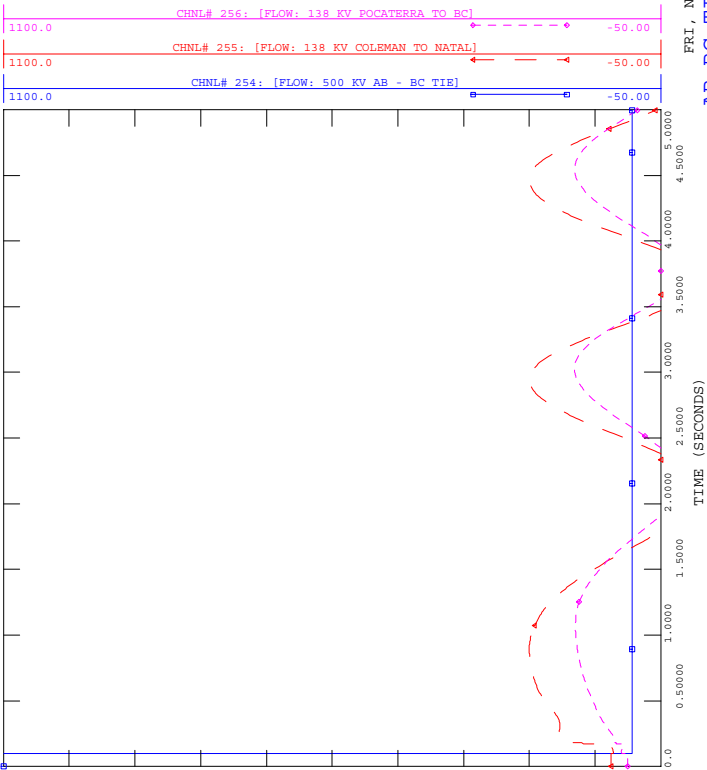
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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FRI, NOV 21 2008 13:44
LANGDON_FRQ-V82



09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
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ABSO CASE
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AB_BC_TIE_FLOWS-V82



Category C5 Fault Analysis Results

Category C5 fault analysis was performed for the 2017 Summer Light - Alternative 1A case. Category C5 faults are defined as double line-to-ground faults of a double circuited transmission tower with normal clearing time. Figures E-4, E-5, and E-6 show the locations where the Category C5 faults were applied to the system. The impedances of the double line to ground faults were calculated at the faulted locations on the Alternative 1A system. Table E-2 summarizes the fault descriptions and results for the Category C5 fault analysis. All simulation observations reported in Table E-2 for are applicable to both V82 and GE wind turbine results. Specific transient simulation plots for Category C5 contingencies can be found in this Appendix E.

FIGURE E-4
CATEGORY C5 FAULT LOCATIONS – SOUTHWESTERN PART OF THE SOUTH SYSTEM

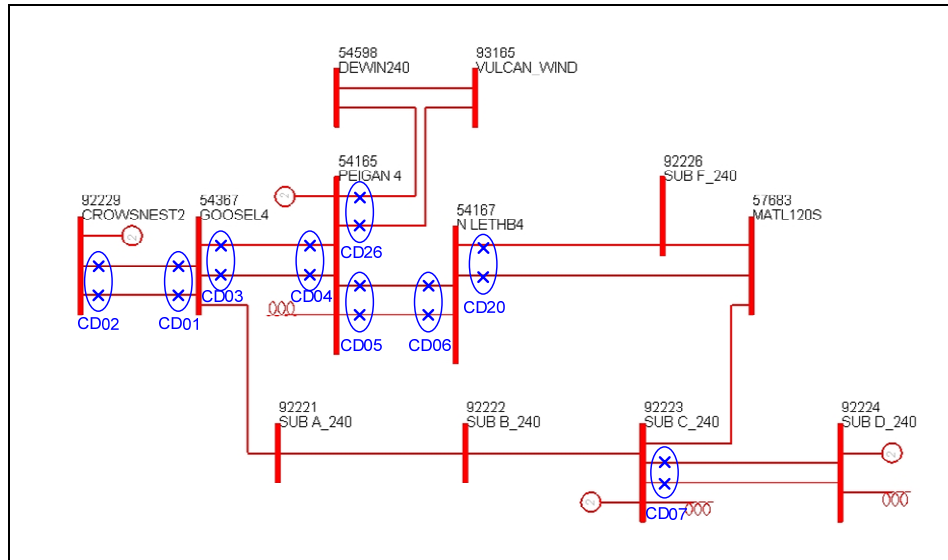


FIGURE E-5
CATEGORY C5 FAULT LOCATIONS – NORTHWESTERN PART OF THE SOUTH SYSTEM

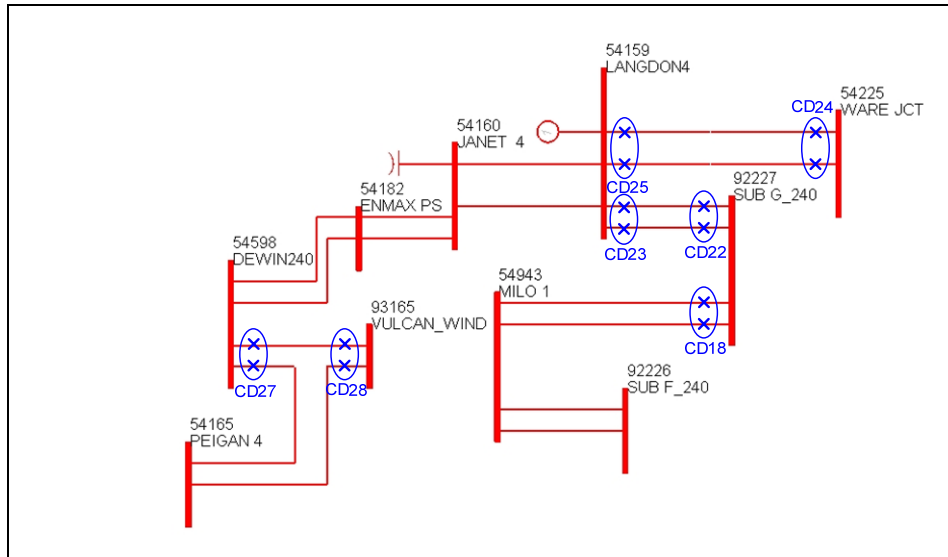
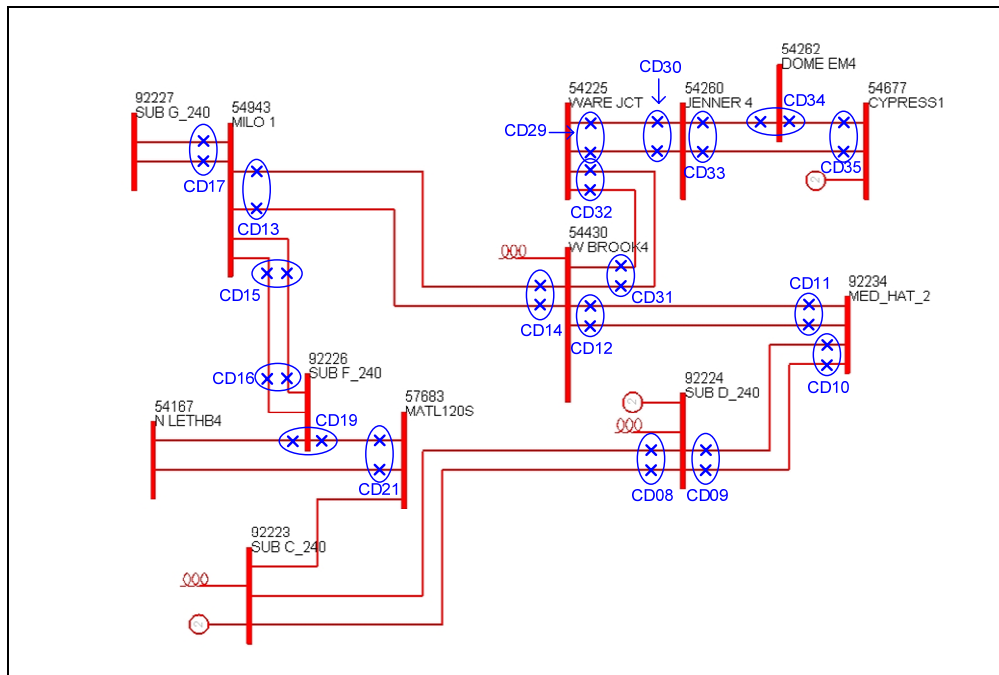


FIGURE E-6
CATEGORY C5 FAULT LOCATIONS – EASTERN PART OF THE SOUTH SYSTEM



**TABLE E-2
STABILITY RESULTS FOR C5 FAULTS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Observations |
|---------|--|--|
| CD01 | Double line to ground fault at Gooselake 240kV double ckt line to Crowsnest 5 cycles: trip Gooselake CB on Gooselake - Crowsnest line ckt 01 trip Gooselake CB on Gooselake - Crowsnest line ckt 02 6 cycles: trip Crowsnest CB on Gooselake - Crowsnest line ckt 01 trip Crowsnest CB on Gooselake - Crowsnest line ckt 02 | System stable Good voltage recovery No load shedding |
| CD02* | Double line to ground fault at Crowsnest 240kV double ckt line to Gooselake 5 cycles: trip Crowsnest CB on Crowsnest - Gooselake line ckt 01 trip Crowsnest CB on Crowsnest - Gooselake line ckt 02 6 cycles: trip Gooselake CB on Crowsnest - Gooselake line ckt 01 trip Gooselake CB on Crowsnest - Gooselake line ckt 02 | System stable Good voltage recovery No load shedding |
| CD03* | Double line to ground fault at Gooselake 240kV double ckt line to Peigan 5 cycles: trip Gooselake CB on Gooselake - Peigan line ckt 75 trip Gooselake CB on Gooselake - Peigan line ckt 76 6 cycles: trip Peigan CB on Gooselake - Peigan line ckt 75 trip Peigan CB on Gooselake - Peigan line ckt 76 | System stable Good voltage recovery No load shedding |
| CD04 | Double line to ground fault at Peigan 240kV double ckt line to Gooselake 5 cycles: trip Peigan CB on Peigan - Gooselake line ckt 75 trip Peigan CB on Peigan - Gooselake line ckt 76 6 cycles: trip Gooselake CB on Peigan - Gooselake line ckt 75 trip Gooselake CB on Peigan - Gooselake line ckt 76 | System stable Good voltage recovery No load shedding |
| CD05* | Double line to ground fault at Peigan 240kV dbl ckt line to North_Lethbridge 5 cycles: trip Peigan CB on Peigan - North_Lethbridge line ckt 77 trip Peigan CB on Peigan - North_Lethbridge line ckt 78 6 cycles: trip North_Lethbridge CB on Peigan - North_Lethbridge line ckt 77 trip North_Lethbridge CB on Peigan - North_Lethbridge line ckt 78 | System stable Good voltage recovery No load shedding |
| CD06 | Double line to ground fault at North_Lethbridge 240kV dbl ckt line to Peigan 5 cycles: trip North_Lethbridge CB on North_Lethbridge - Peigan line ckt 77 trip North_Lethbridge CB on North_Lethbridge - Peigan line ckt 78 6 cycles: trip Peigan CB on North_Lethbridge - Peigan line ckt 77 trip Peigan CB on North_Lethbridge - Peigan line ckt 78 | System stable Good voltage recovery No load shedding |
| CD07* | Double line to ground fault at SubC 240kV double ckt line to SubD 5 cycles: trip SubC CB on SubC - SubD line ckt 1 trip SubC CB on SubC - SubD line ckt 2 6 cycles: trip SubD CB on SubC - SubD line ckt 1 trip SubD CB on SubC - SubD line ckt 2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

**TABLE E-2
STABILITY RESULTS FOR C5 FAULTS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Observations |
|---------|---|--|
| CD08 | Double line to ground fault at SubD 240kV double ckt line to SubC 5 cycles: trip SubD CB on SubD - SubC line ckt 1 trip SubD CB on SubD - SubC line ckt 2 6 cycles: trip SubC CB on SubD - SubC line ckt 1 trip SubC CB on SubD - SubC line ckt 2 | System stable Good voltage recovery No load shedding |
| CD09 | Double line to ground fault at SubD 240kV double ckt line to Medicine_Hat2 5 cycles: trip SubD CB on SubD - Medicine_Hat2 line ckt 1 trip SubD CB on SubD - Medicine_Hat2 line ckt 2 6 cycles: trip Medicine_Hat2 CB on SubD - Medicine_Hat2 line ckt 1 trip Medicine_Hat2 CB on SubD - Medicine_Hat2 line ckt 2 | System stable Good voltage recovery No load shedding |
| CD10 | Double line to ground fault at Medicine_Hat2 240kV double ckt line to SubD 5 cycles: trip Medicine_Hat2 CB on Medicine_Hat2 - SubD line ckt 1 trip Medicine_Hat2 CB on Medicine_Hat2 - SubD line ckt 2 6 cycles: trip SubD CB on Medicine_Hat2 - SubD line ckt 1 trip SubD CB on Medicine_Hat2 - SubD line ckt 2 | System stable Good voltage recovery No load shedding |
| CD11* | Double line to ground fault at Medicine_Hat2 240kV dbl ckt line to Westbrooks 5 cycles: trip Medicine_Hat2 CB on Medicine_Hat2 - Westbrooks line ckt 1 trip Medicine_Hat2 CB on Medicine_Hat2 - Westbrooks line ckt 2 6 cycles: trip Westbrooks CB on Medicine_Hat2 - Westbrooks line ckt 1 trip Westbrooks CB on Medicine_Hat2 - Westbrooks line ckt 2 | System stable Good voltage recovery No load shedding |
| CD12 | Double line to ground fault at Westbrooks 240kV dbl ckt line to Medicine_Hat2 5 cycles: trip Westbrooks CB on Westbrooks - Medicine_Hat2 line ckt 1 trip Westbrooks CB on Westbrooks - Medicine_Hat2 line ckt 2 6 cycles: trip Medicine_Hat2 CB on Westbrooks - Medicine_Hat2 line ckt 1 trip Medicine_Hat2 CB on Westbrooks - Medicine_Hat2 line ckt 2 | System stable Good voltage recovery No load shedding |
| CD13 | Double line to ground fault at Milo 240kV double ckt line to Westbrooks 5 cycles: trip Milo CB on Milo - Westbrooks line ckt 23 trip Milo CB on Milo - Westbrooks line ckt 35 6 cycles: trip Westbrooks CB on Milo - Westbrooks line ckt 23 trip Westbrooks CB on Milo - Westbrooks line ckt 35 | System stable Good voltage recovery No load shedding |
| CD14 | Double line to ground fault at Westbrooks 240kV double ckt line to Milo 5 cycles: trip Westbrooks CB on Westbrooks - Milo line ckt 23 trip Westbrooks CB on Westbrooks - Milo line ckt 35 6 cycles: trip Milo CB on Westbrooks - Milo line ckt 23 trip Milo CB on Westbrooks - Milo line ckt 35 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

TABLE E-2
STABILITY RESULTS FOR C5 FAULTS
V82 AND GE1.5 TURBINE

| Case ID | Description | Observations |
|---------|--|--|
| CD15 | Double line to ground fault at Milo 240kV double ckt line to SubF 5 cycles: trip Milo CB on Milo - SubF line ckt 23 trip Milo CB on Milo - SubF line ckt 24 6 cycles: trip SubF CB on Milo - SubF line ckt 23 trip SubF CB on Milo - SubF line ckt 24 | System stable Good voltage recovery No load shedding |
| CD16 | Double line to ground fault at SubF 240kV double ckt line to Milo 5 cycles: trip SubF CB on SubF - Milo line ckt 23 trip SubF CB on SubF - Milo line ckt 24 6 cycles: trip Milo CB on SubF - Milo line ckt 23 trip Milo CB on SubF - Milo line ckt 24 | System stable Good voltage recovery No load shedding |
| CD17 | Double line to ground fault at Milo 240kV double ckt line to SubG 5 cycles: trip Milo CB on Milo - SubG line ckt 27 trip Milo CB on Milo - SubG line ckt 24 6 cycles: trip SubG CB on Milo - SubG line ckt 27 trip SubG CB on Milo - SubG line ckt 24 | System stable Good voltage recovery No load shedding |
| CD18 | Double line to ground fault at SubG 240kV double ckt line to Milo 5 cycles: trip SubG CB on SubG - Milo line ckt 27 trip SubG CB on SubG - Milo line ckt 24 6 cycles: trip Milo CB on SubG - Milo line ckt 27 trip Milo CB on SubG - Milo line ckt 24 | System stable Good voltage recovery No load shedding |
| CD19 | Dbl line to ground fault at SubF 240kV dbl ckt line to Matl and N_Lethbridge 5 cycles: trip SubF CB on SubF - Matl line ckt 23 trip SubF CB on SubF - North_Lethbridge line ckt 24 6 cycles: trip Matl CB on SubF - Matl line ckt 23 trip North_Lethbridge CB on SubF - North_Lethbridge line ckt 24 | System stable Good voltage recovery No load shedding |
| CD20* | Dbl line to ground fault at N_Lethbridge 240kV dbl ckt line to SubF and Matl 5 cycles: trip North_Lethbridge CB on North_Lethbridge - SubF line ckt 24 trip North_Lethbridge CB on North_Lethbridge - Matl line ckt 1 6 cycles: trip SubF CB on North_Lethbridge - SubF line ckt 24 trip Matl CB on North_Lethbridge - Matl line ckt 1 | System stable Good voltage recovery No load shedding |
| CD21 | Dbl line to gnd fault at Matl 240kV dbl ckt line to SubF and N_Lethbridge 5 cycles: trip Matl CB on Matl - SubF line ckt 23 trip Matl CB on Matl - North_Lethbridge line ckt 1 6 cycles: trip SubF CB on Matl - SubF line ckt 23 trip North_Lethbridge CB on Matl - North_Lethbridge line ckt 1 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

**TABLE E-2
STABILITY RESULTS FOR C5 FAULTS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Observations |
|---------|--|--|
| CD22 | Double line to ground fault at SubG 240kV double ckt line to Langdon 5 cycles: trip SubG CB on SubG - Langdon line ckt 27 trip SubG CB on SubG - Langdon line ckt 24 6 cycles: trip Langdon CB on SubG - Langdon line ckt 27 trip Langdon CB on SubG - Langdon line ckt 24 | System stable Good voltage recovery No load shedding |
| CD23* | Double line to ground fault at Langdon 240kV double ckt line to SubG 5 cycles: trip Langdon CB on Langdon - SubG line ckt 27 trip Langdon CB on Langdon - SubG line ckt 24 6 cycles: trip SubG CB on Langdon - SubG line ckt 27 trip SubG CB on Langdon - SubG line ckt 24 | System stable Good voltage recovery No load shedding |
| CD24* | Double line to ground fault at Ware_Junction 240kV dbl ckt line to Langdon 5 cycles: trip Ware_Junction CB on Ware_Junction - Langdon line ckt 1 trip Ware_Junction CB on Ware_Junction - Langdon line ckt 2 6 cycles: trip Langdon CB on Ware_Junction - Langdon line ckt 1 trip Langdon CB on Ware_Junction - Langdon line ckt 2 | System stable Good voltage recovery No load shedding |
| CD25 | Double line to ground fault at Langdon 240kV dbl ckt line to Ware_Junction 5 cycles: trip Langdon CB on Langdon - Ware_Junction line ckt 1 trip Langdon CB on Langdon - Ware_Junction line ckt 2 6 cycles: trip Ware_Junction CB on Langdon - Ware_Junction line ckt 1 trip Ware_Junction CB on Langdon - Ware_Junction line ckt 2 | System stable Good voltage recovery No load shedding |
| CD26 | Double line to ground fault at Peigan 240kV dbl ckt line to Dewin and Vulcan 5 cycles: trip Peigan CB on Peigan - Dewin line ckt 2 trip Peigan CB on Peigan - Vulcan line ckt 1 6 cycles: trip Dewin CB on Peigan - Dewin line ckt 2 trip Vulcan CB on Peigan - Vulcan line ckt 1 | System stable Good voltage recovery No load shedding |
| CD27* | Double line to ground fault at Dewin 240kV dbl ckt line to Vulcan and Peigan 5 cycles: trip Dewin CB on Dewin - Vulcan line ckt 1 trip Dewin CB on Dewin - Peigan line ckt 2 6 cycles: trip Vulcan CB on Dewin - Vulcan line ckt 1 trip Peigan CB on Dewin - Peigan line ckt 2 | System stable Good voltage recovery No load shedding |
| CD28 | Double line to ground fault at Vulcan 240kV dbl ckt line to Dewin and Peigan 5 cycles: trip Vulcan CB on Vulcan - Dewin line ckt 1 trip Vulcan CB on Vulcan - Peigan line ckt 1 6 cycles: trip Dewin CB on Vulcan - Dewin line ckt 1 trip Peigan CB on Vulcan - Peigan line ckt 1 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

**TABLE E-2
STABILITY RESULTS FOR C5 FAULTS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Observations |
|---------|--|--|
| CD29 | Double line to ground fault at Ware_Junction 240kV dbl ckt line to Jenner 5 cycles: trip Ware_Junction CB on Ware_Junction - Jenner line ckt 44 trip Ware_Junction CB on Ware_Junction - Jenner line ckt 51 6 cycles: trip Jenner CB on Ware_Junction - Jenner line ckt 44 trip Jenner CB on Ware_Junction - Jenner line ckt 51 | System stable Good voltage recovery No load shedding |
| CD30 | Double line to ground fault at Jenner 240kV dbl ckt line to Ware_Junction 5 cycles: trip Jenner CB on Jenner - Ware_Junction line ckt 44 trip Jenner CB on Jenner - Ware_Junction line ckt 51 6 cycles: trip Ware_Junction CB on Jenner - Ware_Junction line ckt 44 trip Ware_Junction CB on Jenner - Ware_Junction line ckt 51 | System stable Good voltage recovery No load shedding |
| CD31* | Dbl line to ground fault at Westbrooks 240kV dbl ckt line to Ware_Junction 5 cycles: trip Westbrooks CB on Westbrooks - Ware_Junction line ckt 31 trip Westbrooks CB on Westbrooks - Ware_Junction line ckt 33 6 cycles: trip Ware_Junction CB on Westbrooks - Ware_Junction line ckt 31 trip Ware_Junction CB on Westbrooks - Ware_Junction line ckt 33 | System stable Good voltage recovery No load shedding |
| CD32 | Dbl line to ground fault at Ware_Junction 240kV dbl ckt line to Westbrooks 5 cycles: trip Ware_Junction CB on Ware_Junction - Westbrooks line ckt 31 trip Ware_Junction CB on Ware_Junction - Westbrooks line ckt 33 6 cycles: trip Westbrooks CB on Ware_Junction - Westbrooks line ckt 31 trip Westbrooks CB on Ware_Junction - Westbrooks line ckt 33 | System stable Good voltage recovery No load shedding |
| CD33* | Dbl line to gnd fault at Jenner 240kV dbl ckt line to Empress and Cypress 5 cycles: trip Jenner CB on Jenner - Dome_Empress line ckt 51 trip Jenner CB on Jenner - Cypress line ckt 45 6 cycles: trip Dome_Empress CB on Jenner - Dome_Empress line ckt 51 trip Cypress CB on Jenner - Cypress line ckt 45 | System stable Good voltage recovery No load shedding |
| CD34 | Dbl line to gnd fault at Empress 240kV dbl ckt line to Jenner and Cypress 5 cycles: trip Dome_Empress CB on Dome_Empress - Jenner line ckt 51 trip Dome_Empress CB on Dome_Empress - Cypress line ckt 45 6 cycles: trip Jenner CB on Dome_Empress - Jenner line ckt 51 trip Cypress CB on Dome_Empress - Cypress line ckt 45 | System stable Good voltage recovery No load shedding |
| CD35 | Dbl line to gnd fault at Cypress 240kV dbl ckt line to Jenner and Empress 5 cycles: trip Cypress CB on Cypress - Jenner line ckt 45 trip Cypress CB on Cypress - Dome_Empress line ckt 45 6 cycles: trip Jenner CB on Cypress - Jenner line ckt 45 trip Dome_Empress CB on Cypress - Dome_Empress line ckt 45 | System stable Good voltage recovery No load shedding |

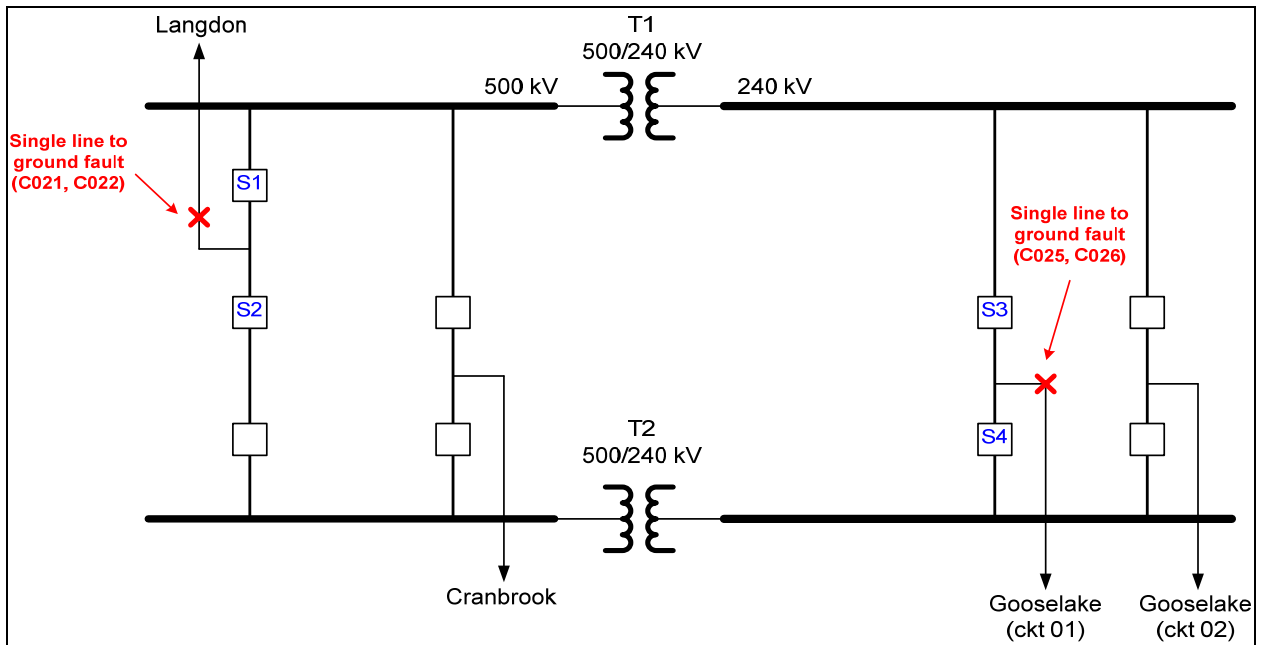
* Stability simulation plots for V82 machine are included in Appendix E.

Category C7 Fault Analysis

Category C7 fault analysis was performed for the 2017 Summer Light - Alternative 1A case. Category C7 faults are defined as single line-to-ground faults of transmission lines with delayed clearing time (stuck breaker condition). For each substation in the south system, the fault location was assumed to be on the 240 kV line with the largest power flow. This fault location was then simulated for with a stuck breaker at the near end substation as a worst case condition. For breaker and a half or ring-bus substation configurations, the breakers on either side of the faulted line were considered in separate stuck breaker simulations. The impedances of the single line to ground faults were calculated at the faulted locations on the Alternative 1A system.

Figure E-7 shows the locations where the Category C7 faults were applied at the Crowsnest Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-3 summarizes the fault descriptions and results for the Category C7 faults at Crowsnest Substation. All simulation observations reported in Table E-3 for are applicable to both V82 and GE wind turbine results. Specific transient simulation plots for Category C7 contingencies can be found in this appendix E.

**FIGURE E-7
STUCK BREAKER FAULT LOCATIONS AT CROWSNEST**



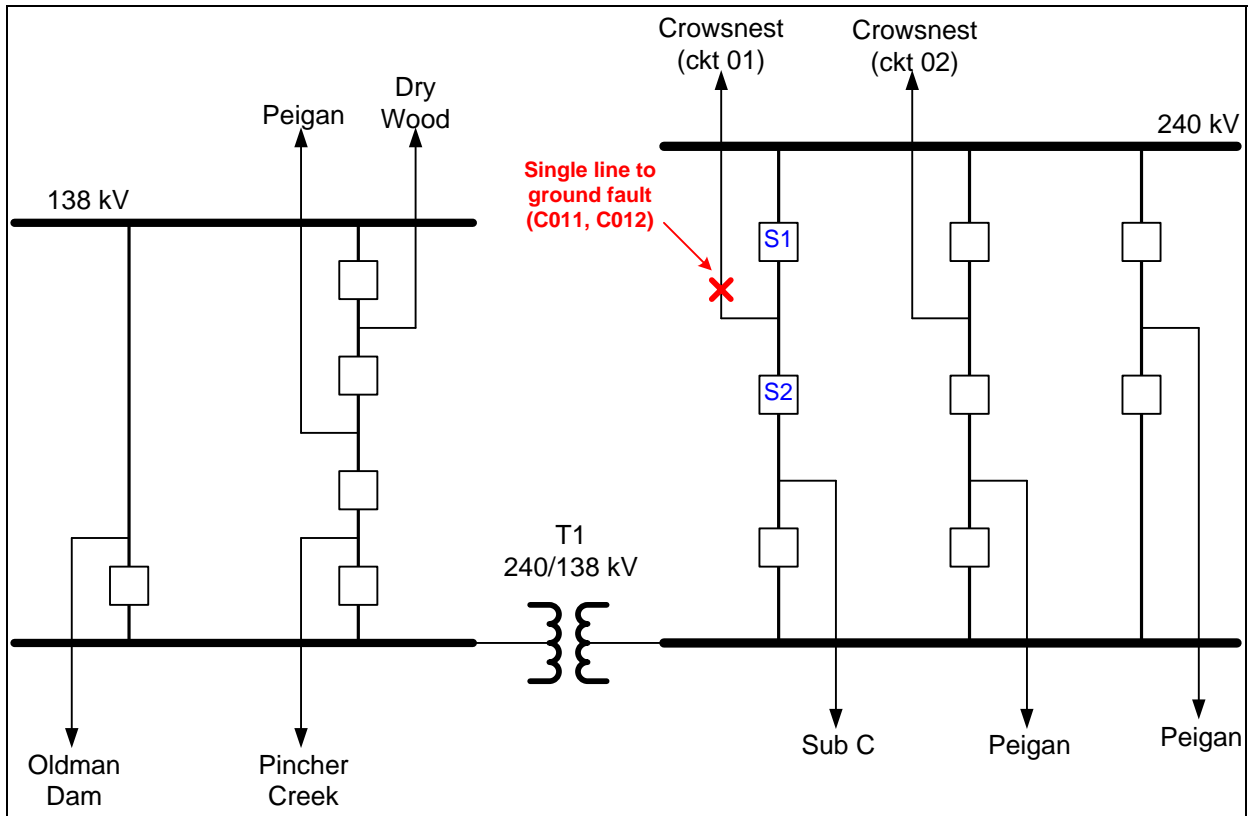
**TABLE E-3
STABILITY RESULTS FOR C7 FAULTS AT CROWNEST
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C021* | Single line fault at Crowsnest 500kV line to Langdon 6 cycles: trip bkr on Crowsnest - Langdon 500 kV line ckt 01 at Langdon 18 cycles: trip Crowsnest transformer(T1) trip bkr on Crowsnest - Langdon 500 kV line ckt 01 at Crowsnest | S1 | System stable Good voltage recovery No load shedding |
| C022 | Single line fault at Crowsnest 500kV line to Langdon 6 cycles: trip bkr on Crowsnest - Langdon 500 kV ckt 01 at Langdon 18 cycles: trip bkr on Crowsnest - Langdon 500 kV ckt 01 at Crowsnest | S2 | System stable Good voltage recovery No load shedding |
| C025 | Single line fault at Crowsnest 240kV line to Gooselake 6 cycles: trip bkr on Crowsnest - Gooselake 240 kV ckt 01 at Gooselake 18 cycles: trip Crowsnest transformer(T1) trip bkr on Crowsnest - Gooselake 240 kV ckt 01 at Crowsnest | S3 | System stable Good voltage recovery No load shedding |
| C026 | Single line fault at Crowsnest 240kV line to Gooselake 6 cycles: trip bkr on Crowsnest - Gooselake 240 kV ckt 01 at Gooselake 18 cycles: trip Crowsnest transformer(T2) trip bkr on Crowsnest - Gooselake 240 kV ckt 01 at Crowsnest | S4 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-8 shows the locations where the Category C7 faults were applied at the Goose Lake Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-4 summarizes the fault descriptions and results for the Category C7 faults at Goose Lake Substation. All simulation observations reported in Table E-4 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-8
STUCK BREAKER FAULT LOCATION AT GOOSE LAKE**



**TABLE E-4
STABILITY RESULTS FOR C7 FAULTS AT GOOSE LAKE
V82 AND GE1.5 TURBINE**

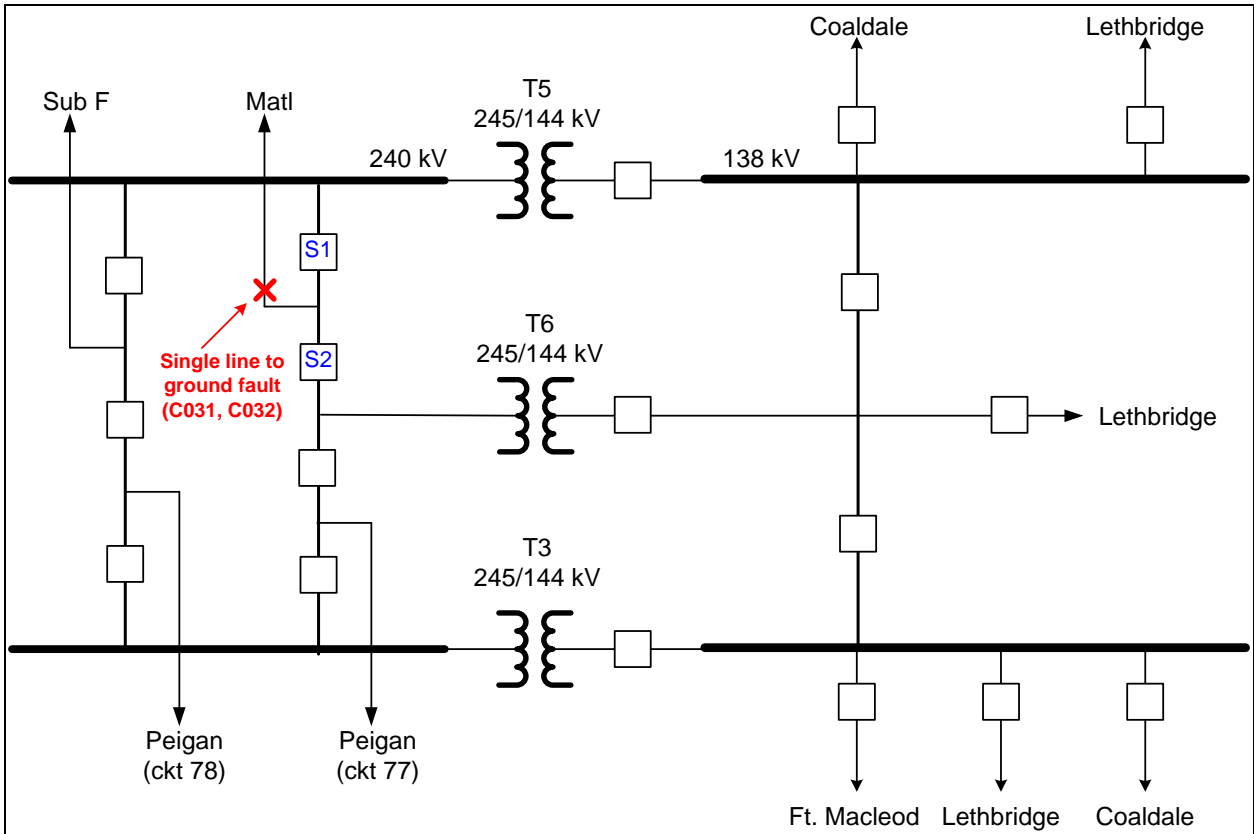
| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C011* | Single line fault at Gooselake 240kV line to Crowsnest 6 cycles: trip bkr on Gooselake - Crowsnest 240 kV ckt 01 at Crowsnest 18 cycles: trip bkr on Gooselake - Crowsnest 240 kV ckt 01 at Gooselake | S1 | System stable Good voltage recovery No load shedding |
| C012 | Single line fault at Gooselake 240kV line to Crowsnest 6 cycles: trip bkr on Gooselake - Crowsnest 240 kV ckt 01 at Crowsnest 18 cycles: trip Gooselake - SubA 240 kV line ckt 1 trip bkr on Gooselake - Crowsnest 240 kV line ckt 01 at Gooselake | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-9 shows the locations where the Category C7 faults were applied at the North Lethbridge Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-5

summarizes the fault descriptions and results for the Category C7 faults at North Lethbridge Substation. All simulation observations reported in Table E-5 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-9
STUCK BREAKER FAULT LOCATION AT NORTH LETHBRIDGE**



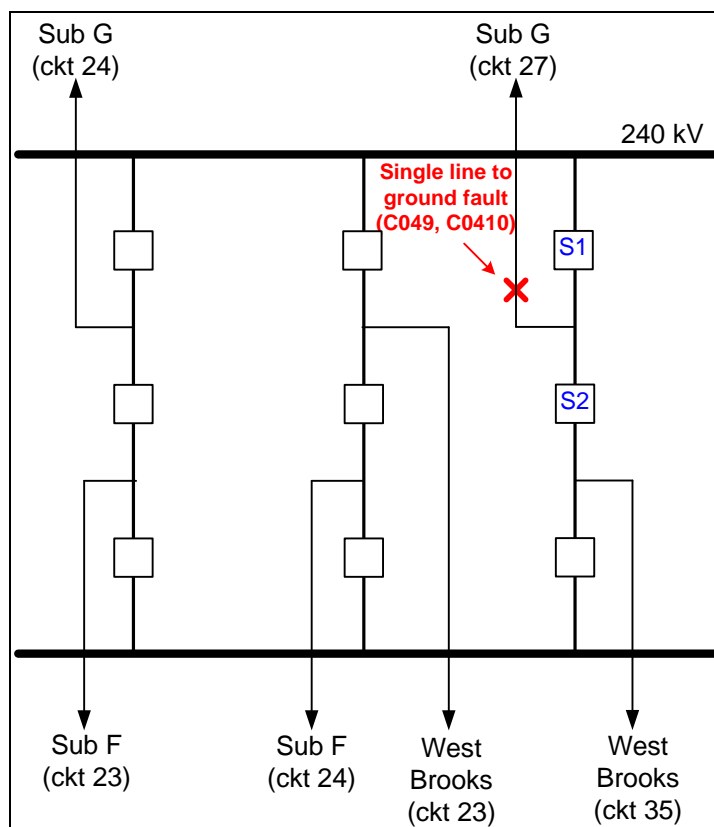
**TABLE E-5
STABILITY RESULTS FOR C7 FAULTS AT NORTH LETHBRIDGE
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|--|------------|--|
| C031* | Single line fault at North_Lethbridge 240kV line to Matl 6 cycles: trip bkr on North_Lethbridge - Matl 240 kV line ckt 1 at Matl 18 cycles: trip North_Lethbridge transformer(T5) trip bkr on North_Lethbridge - Matl 240 kV line ckt 1 at N_Lethbridge | S1 | System stable Good voltage recovery No load shedding |
| C032 | Single line fault at North_Lethbridge 240kV line to Matl 6 cycles: trip bkr on North_Lethbridge - Matl 240 kV line ckt 1 at Matl 18 cycles: trip North_Lethbridge - Peigan 240 kV line ckt 77 trip bkr on North_Lethbridge - Matl 240 kV line ckt 1 at N_Lethbridge | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-10 shows the locations where the Category C7 faults were applied at the Milo Junction Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-6 summarizes the fault descriptions and results for the Category C7 faults at Milo Junction Substation. All simulation observations reported in Table E-6 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-10
STUCK BREAKER FAULT LOCATION AT MILO JUNCTION**



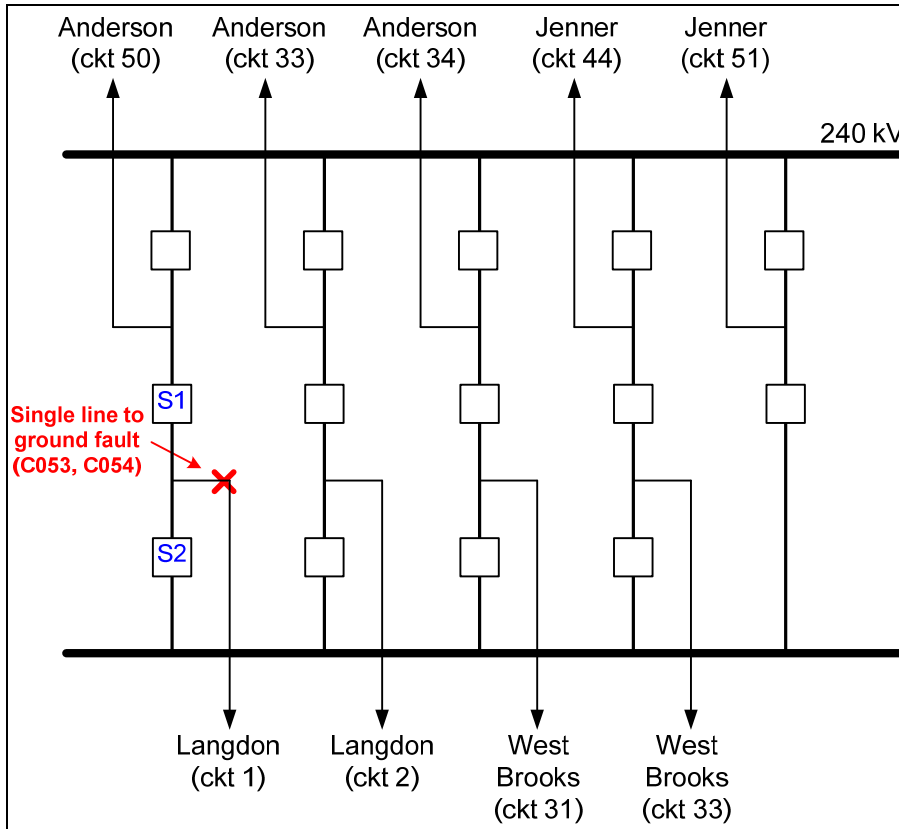
**TABLE E-6
STABILITY RESULTS FOR C7 FAULTS AT MILO JUNCTION
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|--|------------|--|
| C049* | Single line fault at Milo_Junction 240kV line to SubG 6 cycles: trip bkr on Milo_Junction - SubG 240 kV ckt 27 at SubG 18 cycles: trip bkr on Milo_Junction - SubG 240 kV ckt 27 at Milo_Junction | S1 | System stable Good voltage recovery No load shedding |
| C0410 | Single line fault at Milo_Junction 240kV line to SubG 6 cycles: trip bkr on Milo_Junction - SubG 240 kV ckt 27 at SubG 18 cycles: trip Milo_Junction - West_Brooks 240 kV line ckt 35 trip bkr on Milo_Junction - SubG 240 kV ckt 27 at Milo_Junction | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-11 shows the locations where the Category C7 faults were applied at the Ware Junction Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-7 summarizes the fault descriptions and results for the Category C7 faults at Ware Junction Substation. All simulation observations reported in Table E-7 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-11
STUCK BREAKER FAULT LOCATION AT WARE JUNCTION**



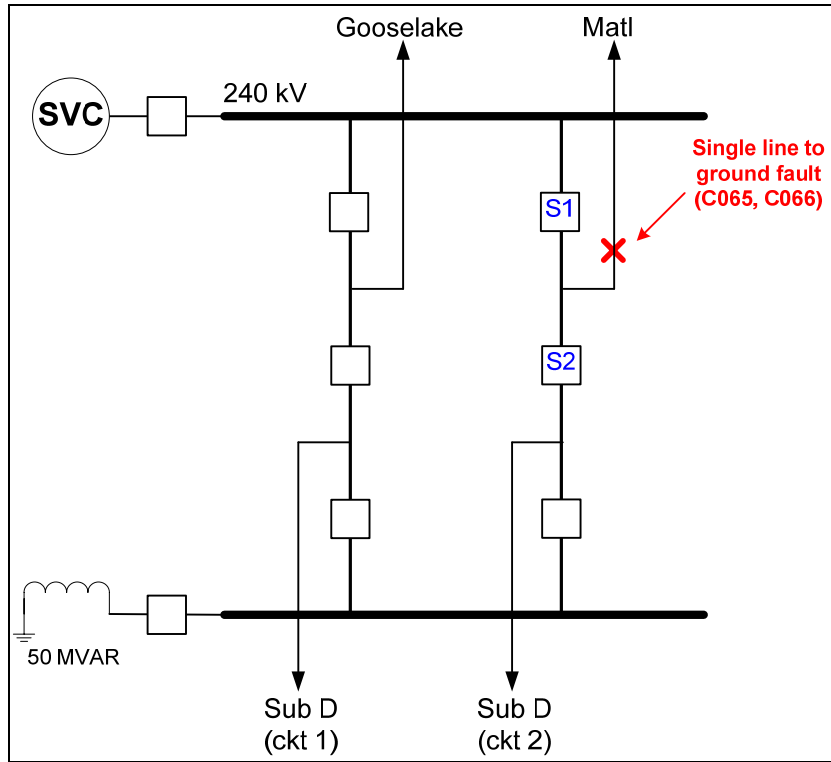
**TABLE E-7
STABILITY RESULTS FOR C7 FAULTS AT WARE JUNCTION
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|--|------------|--|
| C053* | Single line fault at Ware_Junction 240kV line to Langdon 6 cycles: trip bkr on Ware_Junction - Langdon 240 kV ckt 1 at Langdon 18 cycles: trip Ware_Junction - Anderson 240 kV line ckt 50 trip bkr on Ware_Junction - Langdon 240 kV ckt 1 at Ware_Jnctn | S1 | System stable Good voltage recovery No load shedding |
| C054 | Single line fault at Ware_Junction 240kV line to Langdon 6 cycles: trip bkr on Ware_Jnctn - Langdon 240 kV line ckt 1 at Langdon 18 cycles: trip bkr on Ware_Jnctn - Langdon 240 kV ckt 1 at Ware_Jnctn | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-12 shows the locations where the Category C7 faults were applied at the Sub C Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-8 summarizes the fault descriptions and results for the Category C7 faults at Sub C Substation. All simulation observations reported in Table E-8 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-12
STUCK BREAKER FAULT LOCATION AT SUB C**



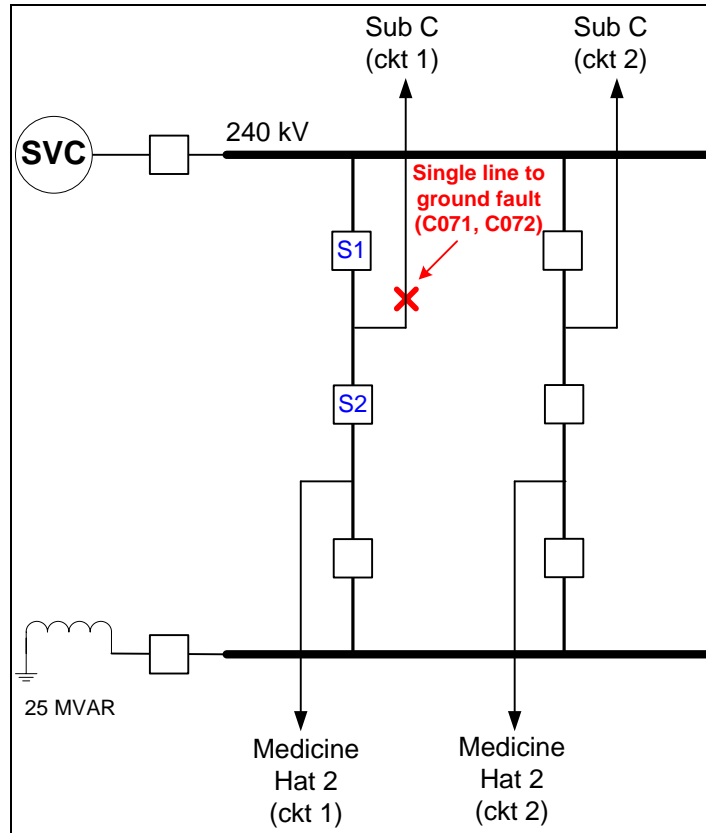
**TABLE E-8
STABILITY RESULTS FOR C7 FAULTS AT SUB C
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|--|------------|--|
| C065* | Single line fault at SubC 240kV line - MATL 240 kV Line 6 cycles: trip bkr on SubC - MATL 240 kV line at MATL 18 cycles: trip 240 kV SubC SVC trip bkr on SubC - MATL 240 kV line at SubC | S1 | System stable Good voltage recovery No load shedding |
| C066 | Single line fault at SubC 240kV line - MATL 240 kV Line 6 cycles: trip bkr on SubC - MATL 240 kV line at MATL 18 cycles: trip SubC 240kV line to SubD 240 kV Line ckt 2 trip bkr on SubC - MATL 240 kV line at SubC | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-13 shows the locations where the Category C7 faults were applied at the Sub D Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-9 summarizes the fault descriptions and results for the Category C7 faults at Sub D Substation. All simulation observations reported in Table E-9 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-13
STUCK BREAKER FAULT LOCATION AT SUB D**



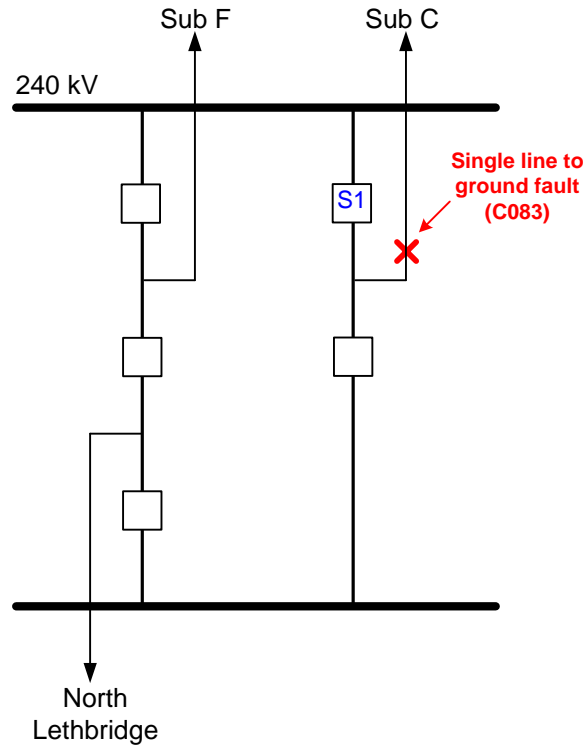
**TABLE E-9
STABILITY RESULTS FOR C7 FAULTS AT SUB D
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C071* | Single line fault at SubD 240kV line - SubC 240 kV Line ckt 1 6 cycles: trip bkr on SubD - SubC 240 kV line ckt 1 at SubC 18 cycles: trip 240 kV SubD SVC trip bkr on SubD - SubC 240 kV line ckt 1 at SubD | S1 | System stable Good voltage recovery No load shedding |
| C072 | Single line fault at SubD 240kV line - SubC 240 kV Line ckt 1 6 cycles: trip bkr on SubD - SubC 240 kV line ckt 1 at SubC 18 cycles: trip SubD to Med Hat2 240 kV line trip bkr on SubD - SubC 240 kV line ckt 1 at SubD | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-14 shows the locations where the Category C7 faults were applied at the MATL Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-10 summarizes the fault descriptions and results for the Category C7 faults at MATL Substation. All simulation observations reported in Table E-10 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-14
STUCK BREAKER FAULT LOCATION AT MATL**

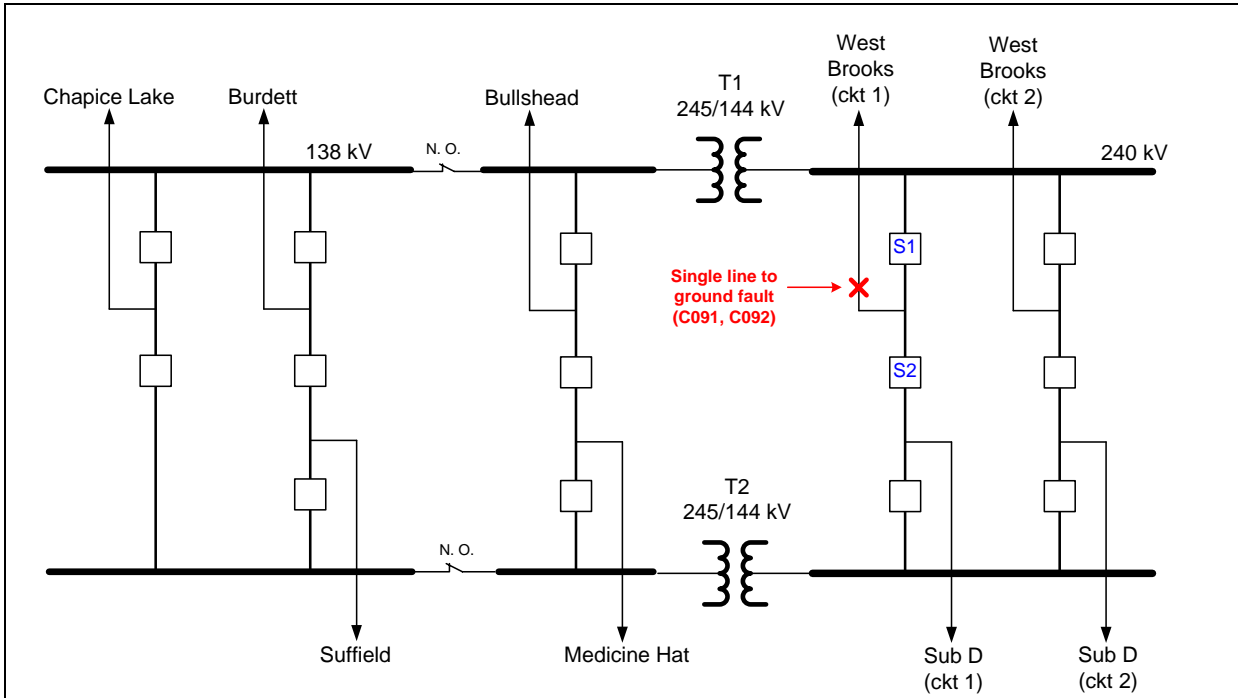


**TABLE E-10
STABILITY RESULTS FOR C7 FAULTS AT MATL
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C083 | Single line fault at MATL 240kV line - SubC Line D 6 cycles: trip bkr on MATL - SubC 240 kV Line D at SubC 18 cycles: trip bkr on MATL - SubC 240 kV Line D at MATL | S1 | System stable Good voltage recovery No load shedding |

Figure E-15 shows the locations where the Category C7 faults were applied at the Medicine Hat2 Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-11 summarizes the fault descriptions and results for the Category C7 faults at Medicine Hat2 Substation. All simulation observations reported in Table E-11 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-15
STUCK BREAKER FAULT LOCATION AT MEDICINE HAT 2**



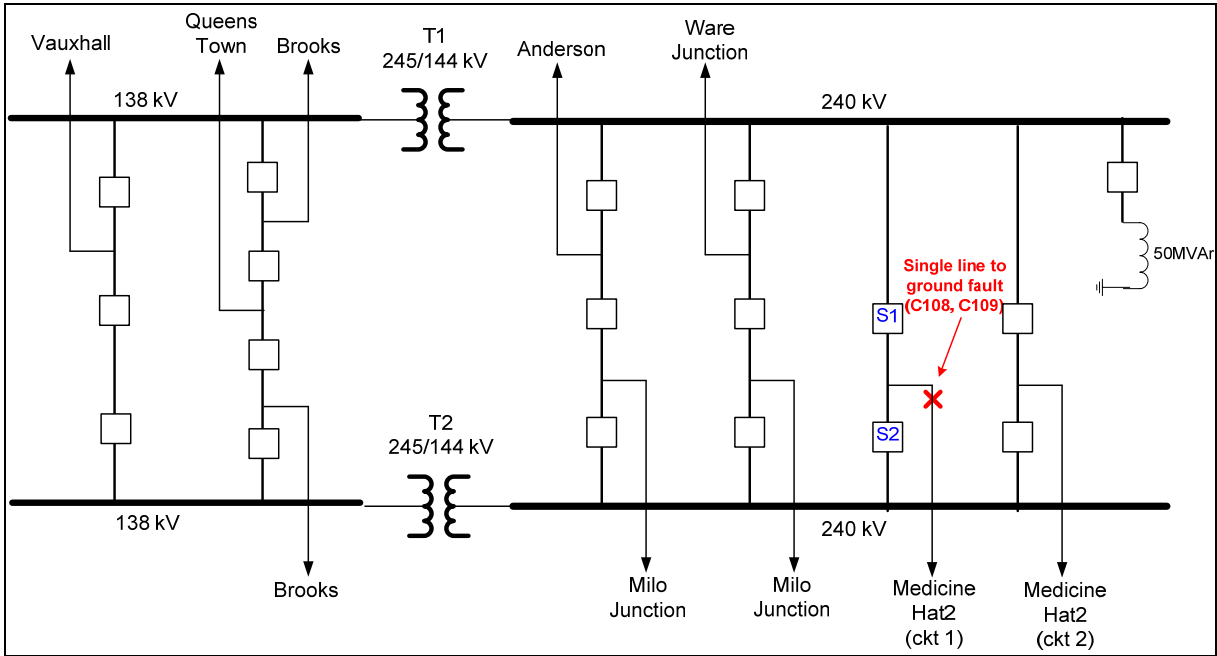
**TABLE E-11
STABILITY RESULTS FOR C7 FAULTS AT MEDICINE HAT 2
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|--|------------|--|
| C091 * | Single line fault at Med Hat2 240kV line - Westbrooks 240 kV Line ckt 1 6 cycles: trip bkr on Med Hat2 - Westbrooks 240 kV ckt 1 at Westbrooks 18 cycles: trip 240 kV/138 kV Transformer T1 at Med Hat 2 trip bkr on Med Hat2 - Westbrooks 240 kV ckt 1 at Med Hat2 | S1 | System stable Good voltage recovery No load shedding |
| C092 | Single line fault at Med Hat2 240kV line - Westbrooks 240 kV Line ckt 1 6 cycles: trip bkr on Med Hat2 - Westbrooks 240 kV ckt 1 at Westbrooks 18 cycles: trip 240 kV line from Med Hat2 to SubD ckt 1 trip bkr on Med Hat2 - Westbrooks 240 kV ckt 1 at Med Hat2 | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-16 shows the locations where the Category C7 faults were applied at the West Brooks Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-12 summarizes the fault descriptions and results for the Category C7 faults at West Brooks Substation. All simulation observations reported in Table E-12 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-16
STUCK BREAKER FAULT LOCATION AT WEST BROOKS**

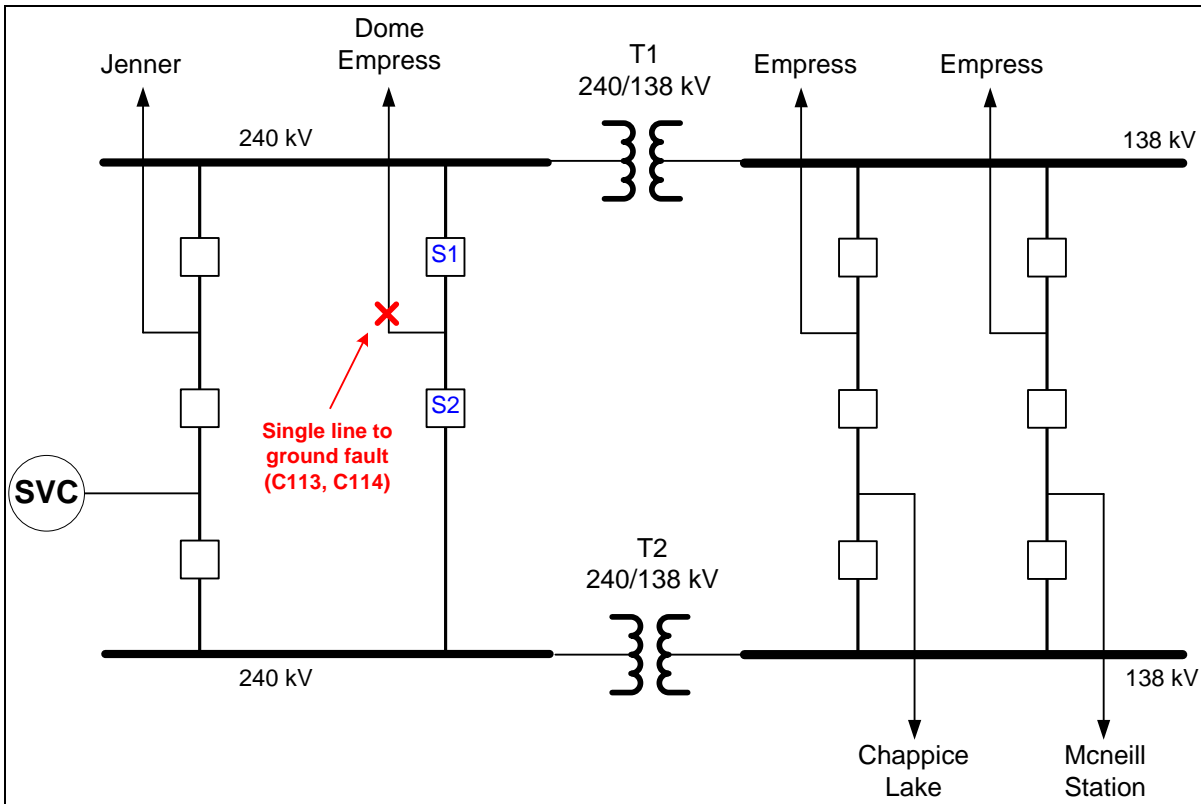


**TABLE E-12
STABILITY RESULTS FOR C7 FAULTS AT WEST BROOKS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C108 | Single line fault at Westbrooks 240kV line - Med Hat2 240 kV Line ckt 1 6 cycles: trip bkr on Westbrooks - Med Hat2 240 kV ckt 1 at Med Hat2 18 cycles: trip 240 kV/138 kV Transformer T1 at Westbrooks trip 50 Mvar Reactor at Westbrooks trip bkr on Westbrooks - Med Hat2 240 kV ckt 1 at Westbrooks | S1 | System stable Good voltage recovery No load shedding |
| C109 | Single line fault at Westbrooks 240kV line - Med Hat2 240 kV Line ckt 1 6 cycles: trip bkr on Westbrooks - Med Hat2 240 kV ckt 1 at Med Hat2 18 cycles: trip 240 kV/138 kV Transformer T2 at Westbrooks trip bkr on Westbrooks - Med Hat2 240 kV ckt 1 at Westbrooks | S2 | System stable Good voltage recovery No load shedding |

Figure E-17 shows the locations where the Category C7 faults were applied at the Cypress Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-13 summarizes the fault descriptions and results for the Category C7 faults at Cypress Substation. All simulation observations reported in Table E-13 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-17
STUCK BREAKER FAULT LOCATION AT CYPRESS**

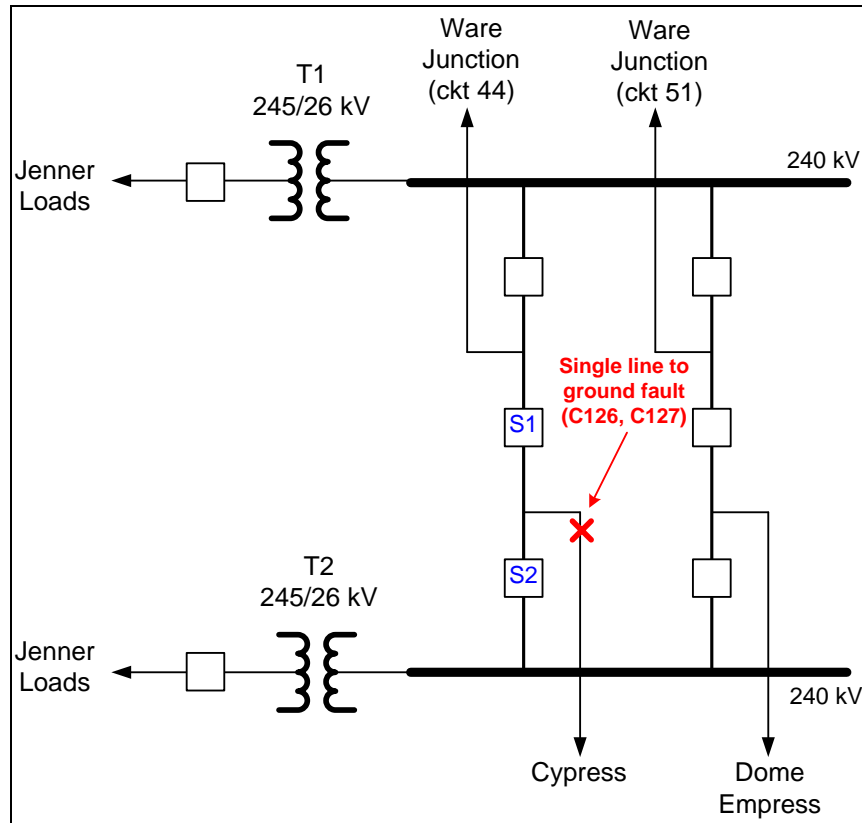


**TABLE E-13
STABILITY RESULTS FOR C7 FAULTS AT CYPRESS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C113 | Single line fault at Cypress 240kV line to Empress 6 cycles: trip bkr on Cypress - Empress 240 kV ckt 45 at Empress 18 cycles: trip Cypress transformer(T1) trip bkr on Cypress - Empress 240 kV ckt 45 at Cypress | S1 | System stable Good voltage recovery No load shedding |
| C114 | Single line fault at Cypress 240kV line to Empress 6 cycles: trip bkr on Cypress - Empress 240 kV ckt 45 at Empress 18 cycles: trip Cypress transformer(T2) trip bkr on Cypress - Empress 240 kV ckt 45 at Cypress | S2 | System stable Good voltage recovery No load shedding |

Figure E-18 shows the locations where the Category C7 faults were applied at the Jenner Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-14 summarizes the fault descriptions and results for the Category C7 faults at Jenner Substation. All simulation observations reported in Table E-14 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-18
STUCK BREAKER FAULT LOCATION AT JENNER**

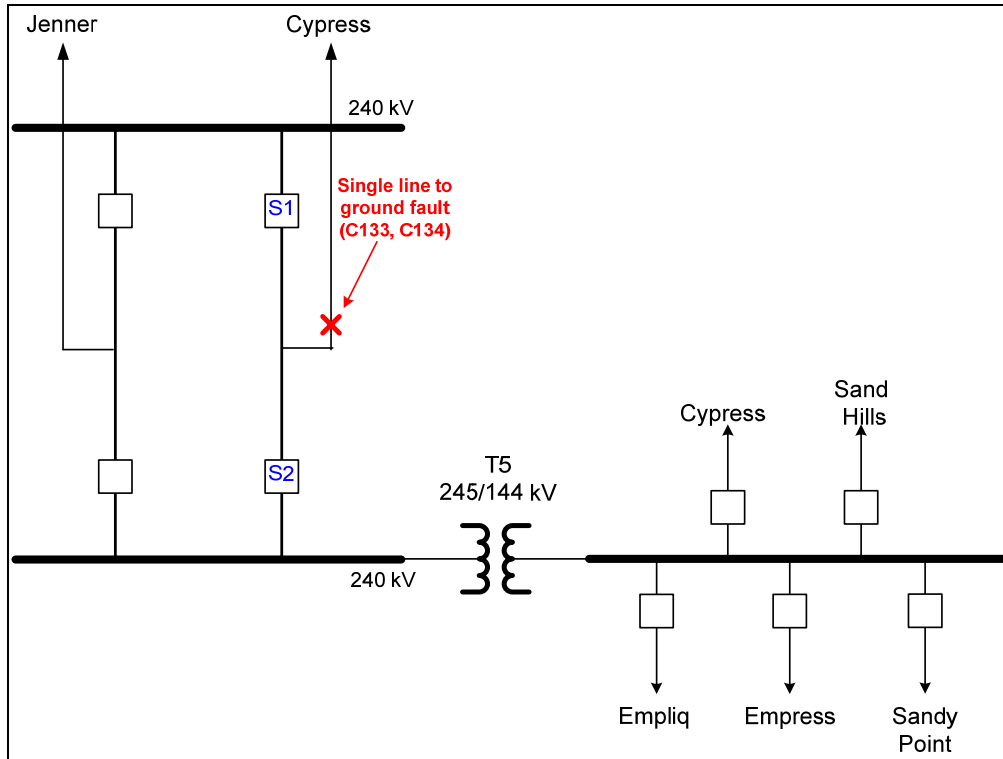


**TABLE E-14
STABILITY RESULTS FOR C7 FAULTS AT JENNER
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C126 | Single line fault at Jenner 240kV line to Cypress 6 cycles: trip bkr on Jenner - Cypress 240 kV line ckt 45 at Cypress 18 cycles: trip Jenner - Ware_Junction 240 kV line ckt 44 trip bkr on Jenner - Cypress 240 kV line ckt 45 at Jenner | S1 | System stable Good voltage recovery No load shedding |
| C127 | Single line fault at Jenner 240kV line to Cypress 6 cycles: trip bkr on Jenner - Cypress 240 kV line ckt 45 at Cypress 18 cycles: trip Jenner transformer(T2) trip bkr on Jenner - Cypress 240 kV line ckt 45 at Jenner | S2 | System stable Good voltage recovery No load shedding |

Figure E-19 shows the locations where the Category C7 faults were applied at the Empress Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-15 summarizes the fault descriptions and results for the Category C7 faults at Empress Substation. All simulation observations reported in Table E-15 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-19
STUCK BREAKER FAULT LOCATION AT EMPRESS**

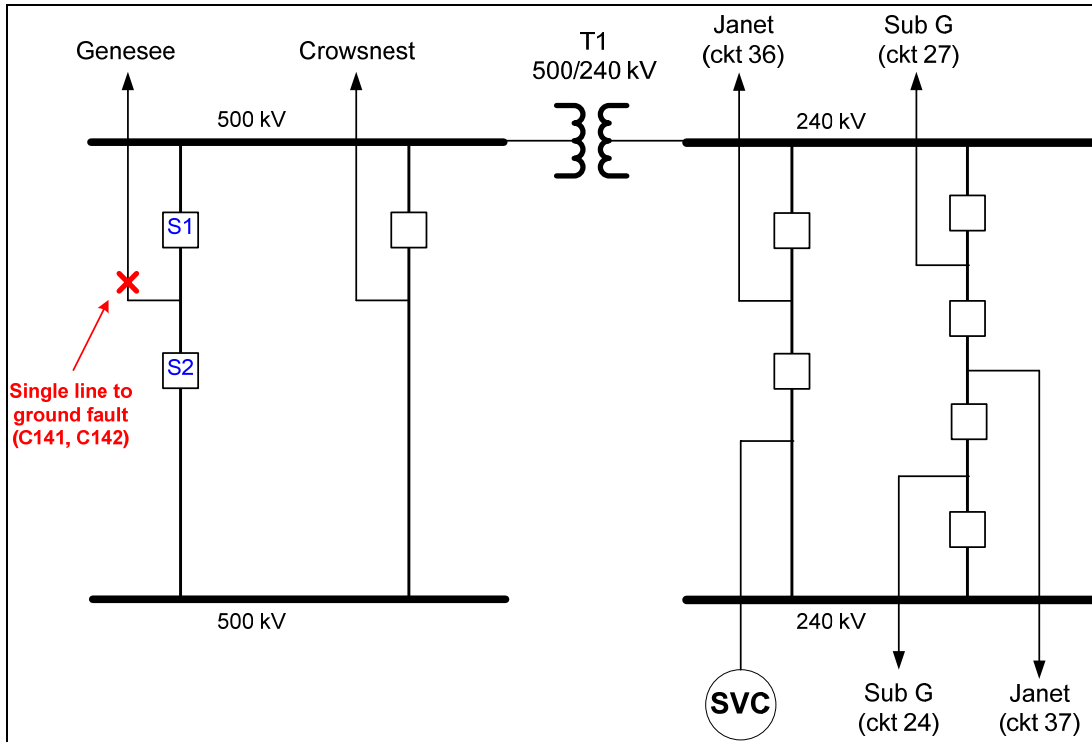


**TABLE E-15
STABILITY RESULTS FOR C7 FAULTS AT EMPRESS
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C133 | Single line fault at Empress 240kV line to Cypress 6 cycles: trip bkr on Empress - Cypress 240 kV line ckt 45 at Cypress 18 cycles: trip bkr on Empress - Cypress 240 kV line ckt 45 at Empress | S1 | System stable Good voltage recovery No load shedding |
| C134 | Single line fault at Empress 240kV line to Cypress 6 cycles: trip bkr on Empress - Cypress 240 kV line ckt 45 at Cypress 18 cycles: trip Empress transformer(T5) trip Empress - Sand_Hills 138 kV line trip Empress - Cypress 138 kV line trip Empress - Empressa7 138 kV line trip Empress - Sandy_point 138 kV line trip Empress - Empliqtp 138 kV line trip bkr on Empress - Cypress 240 kV line ckt 45 at Empress | S2 | System stable Good voltage recovery No load shedding |

Figure E-20 shows the locations where the Category C7 faults were applied at the Langdon Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-16 summarizes the fault descriptions and results for the Category C7 faults at Langdon Substation. All simulation observations reported in Table E-16 for are applicable to both V82 and GE wind turbine model results.

**FIGURE E-20
STUCK BREAKER FAULT LOCATION AT LANGDON**



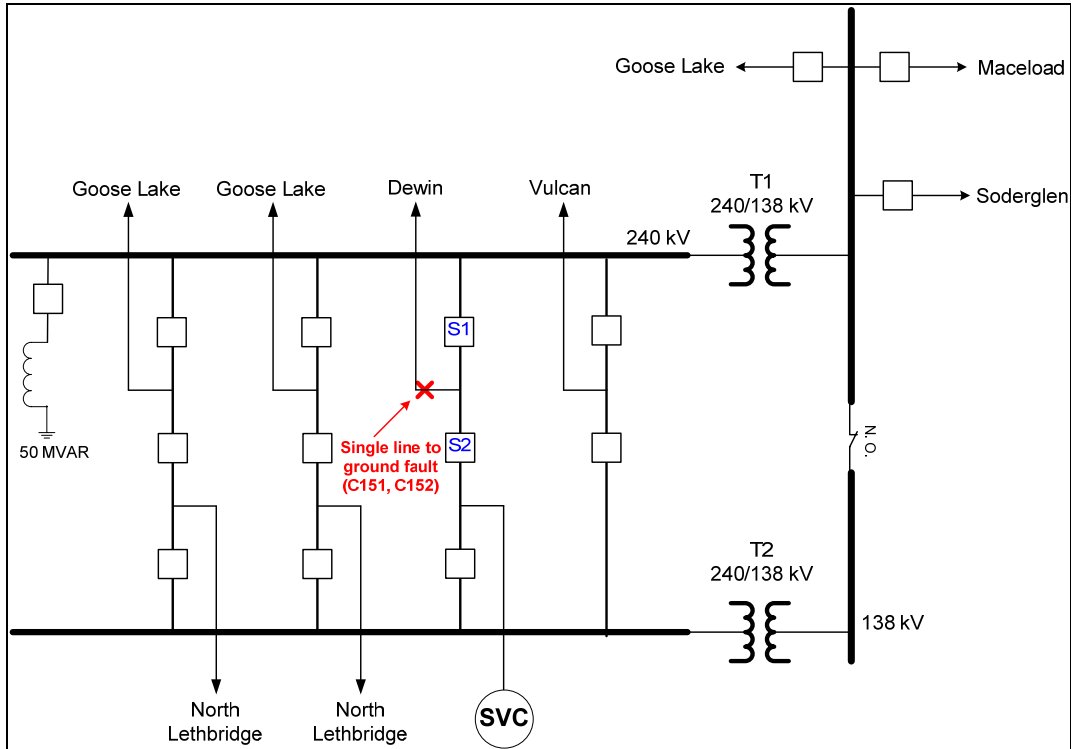
**TABLE E-16
STABILITY RESULTS FOR C7 FAULTS AT LANGDON
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C141* | Single line fault at Langdon 500kV line to Genesee 6 cycles: trip bkr on Langdon - Genesee 500 kV ckt 05 at Genesee 18 cycles: trip Langdon transformer(T2) trip bkr on Langdon - Genesee 500 kV line at Langdon | S1 | System stable Good voltage recovery No load shedding |
| C142 | Single line fault at Langdon 500kV line to Genesee 6 cycles: trip bkr on Langdon - Genesee 500 kV line at Genesee 18 cycles: trip Langdon - Crowsnest 500 kV line trip bkr on Langdon - Genesee 500 kV line at Langdon | S2 | System stable Good voltage recovery No load shedding |

* Stability simulation plots for V82 machine are included in Appendix E.

Figure E-21 shows the locations where the Category C7 faults were applied at the Peigan Substation. Each of the stuck breaker conditions considered are labeled with a breaker number in the figure. Table E-17 summarizes the fault descriptions and results for the Category C7 faults at Peigan Substation. All simulation observations reported in Table E-17 for are applicable to both V82 and GE wind turbine model results.

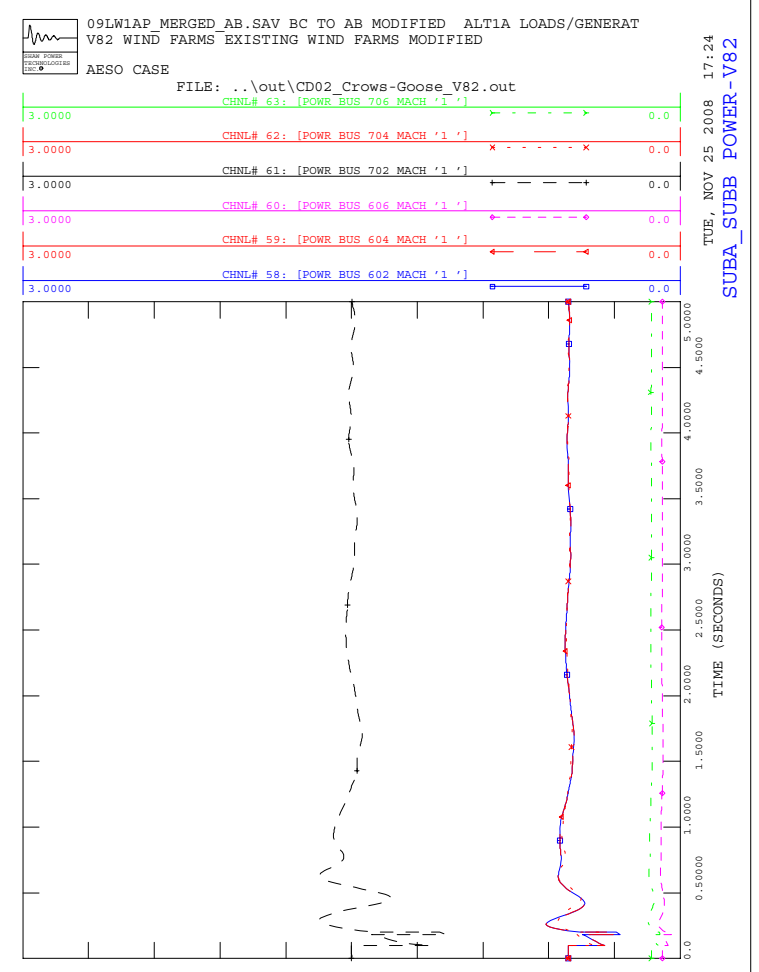
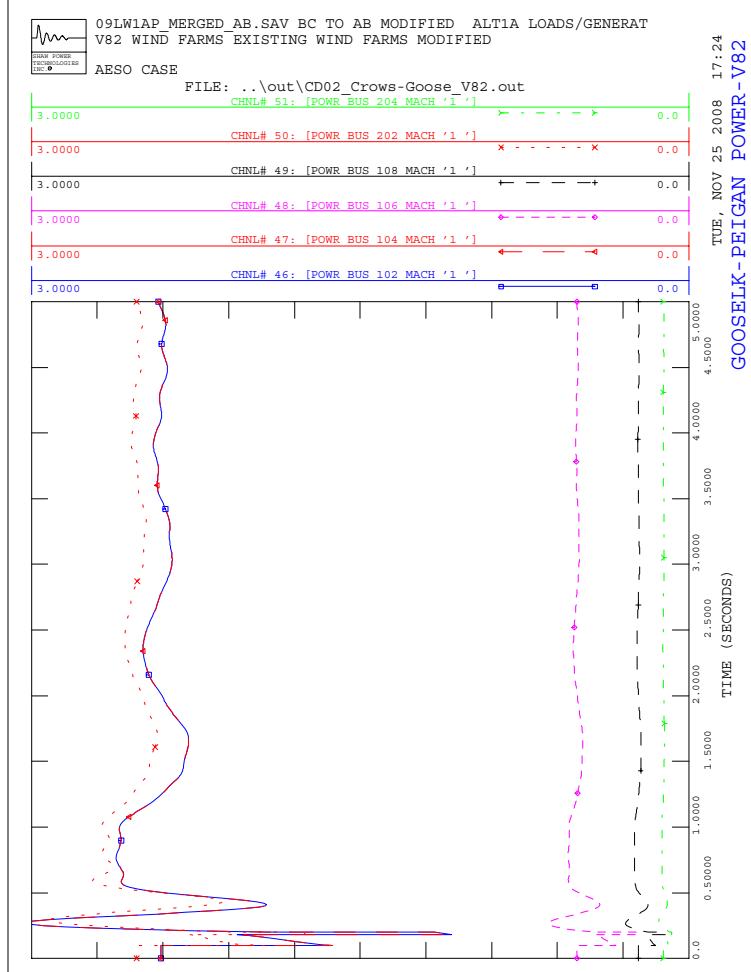
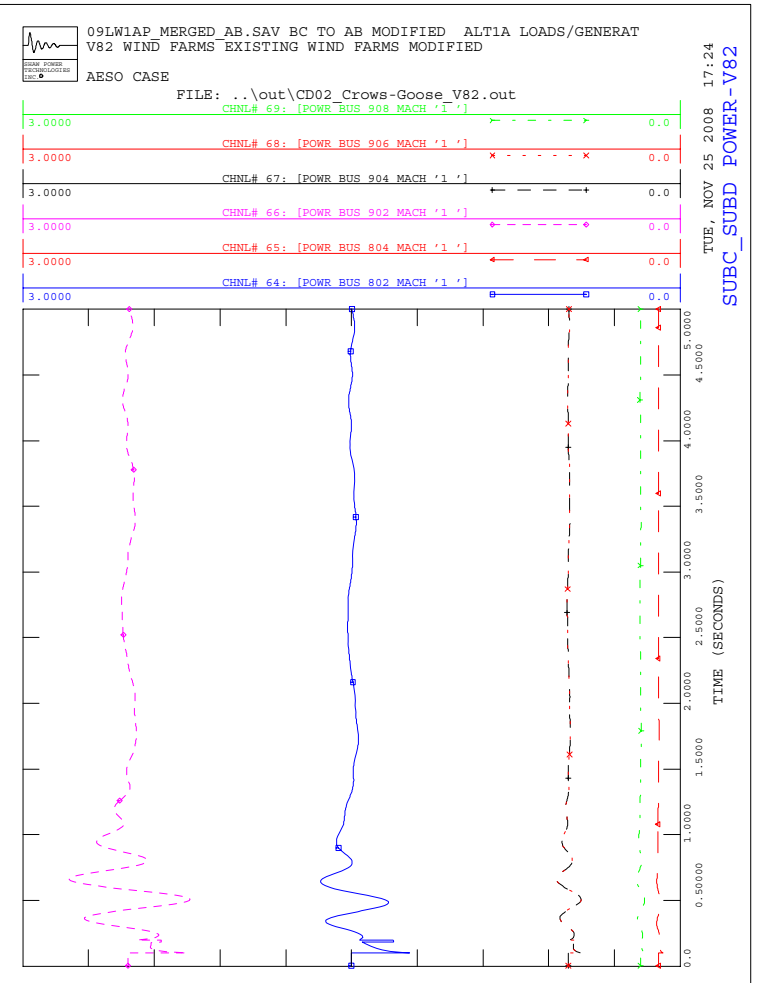
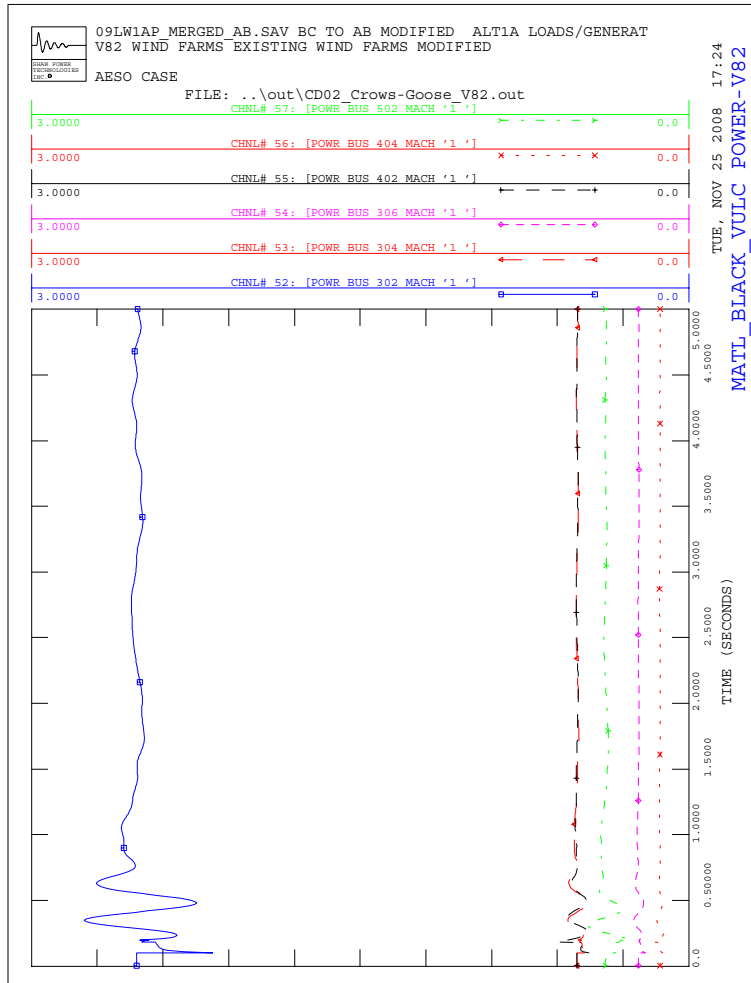
**FIGURE E-21
STUCK BREAKER FAULT LOCATION AT PEIGAN**

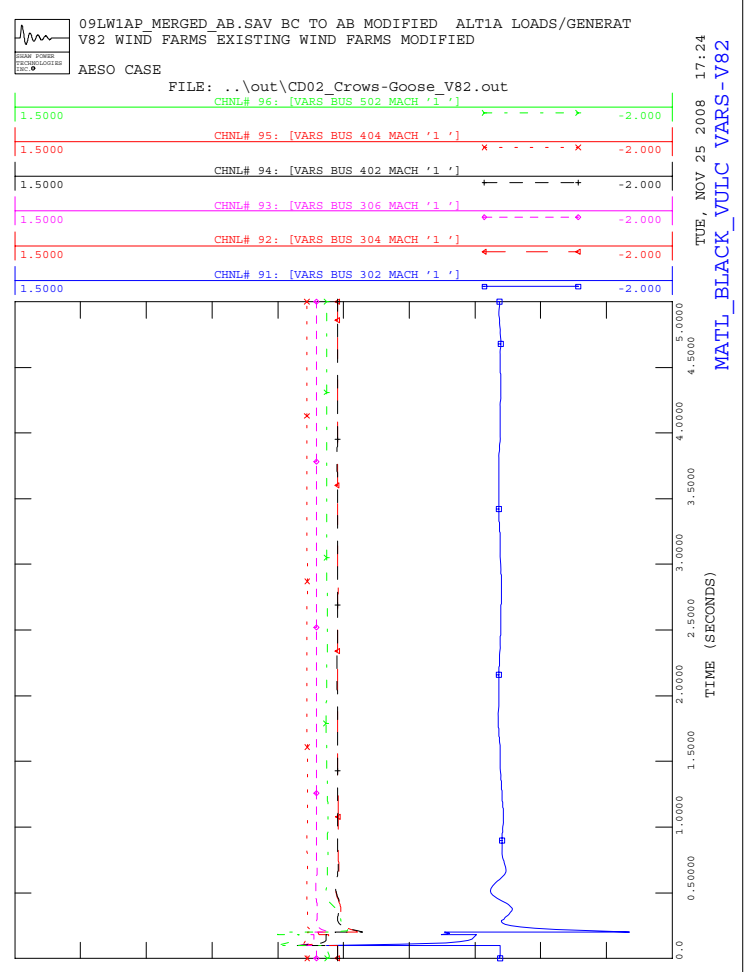
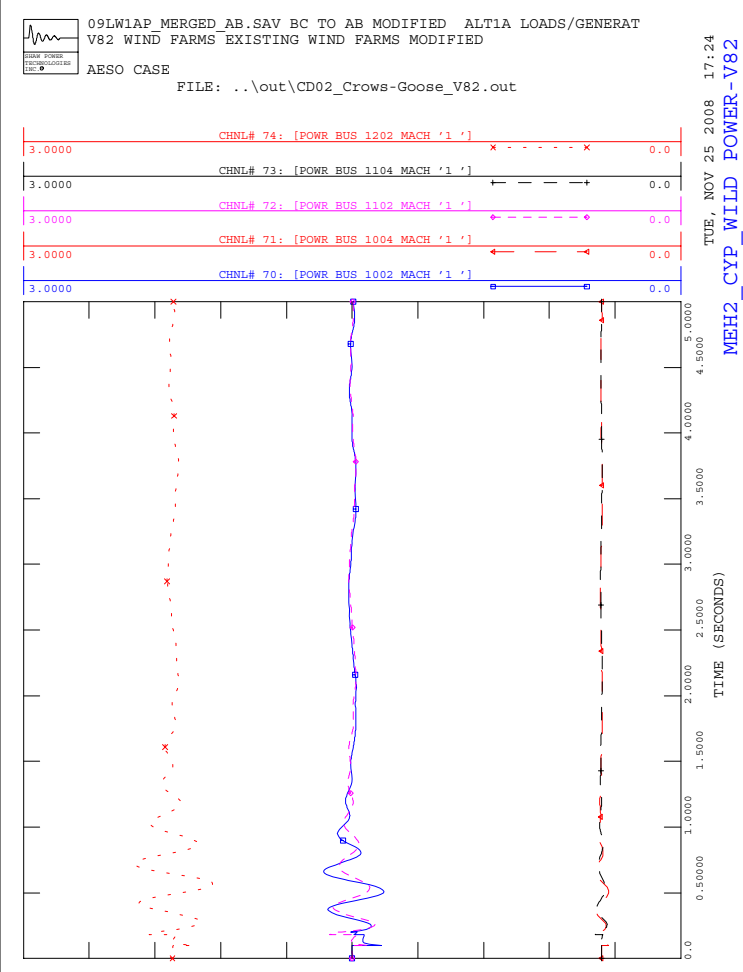
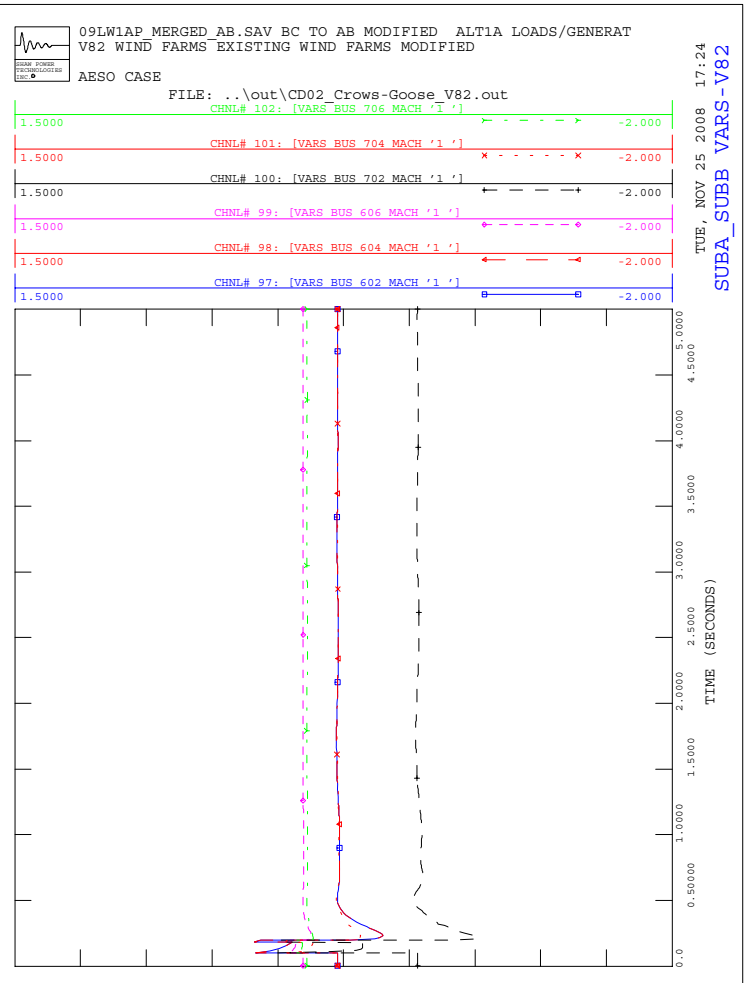
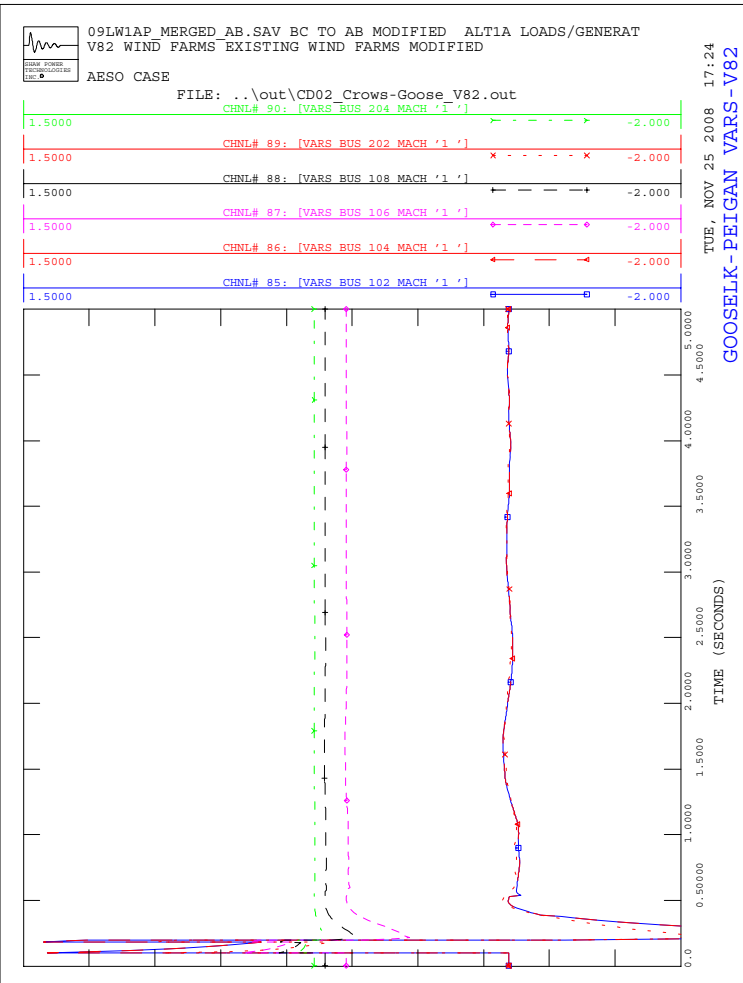


**TABLE E-17
STABILITY RESULTS FOR C7 FAULTS AT PEIGAN
V82 AND GE1.5 TURBINE**

| Case ID | Description | Stuck Bkr# | Observations |
|---------|---|------------|--|
| C151* | Single line fault at Peigan 240kV line to Dewin 6 cycles: trip bkr on Peigan - Dewin 240 kV line ckt 2 at Dewin 18 cycles: trip Peigan transformer(T1) trip 50 Mvar Reactor at Peigan trip Peigan - Macleod 138 kV line trip Peigan - Kettles 138 kV line trip Peigan - Sodertp 138 kV line trip bkr on Peigan - Dewin 240 kV line ckt 2 at Peigan | S1 | System stable Good voltage recovery No load shedding |
| C152 | Single line fault at Peigan 240kV line to Dewin 6 cycles: trip bkr on Peigan - Dewin 240 kV line ckt 2 at Dewin 18 cycles: trip Peigan SVC trip bkr on Peigan - Dewin 240 kV line ckt 2 at Peigan | S2 | System stable Good voltage recovery No load shedding |

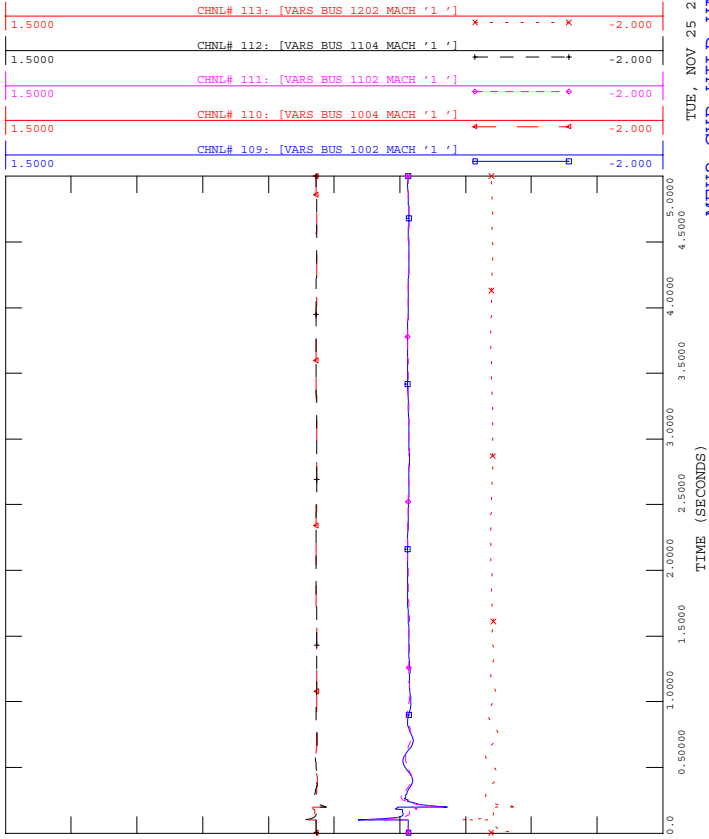
* Stability simulation plots for V82 machine are included in Appendix E.





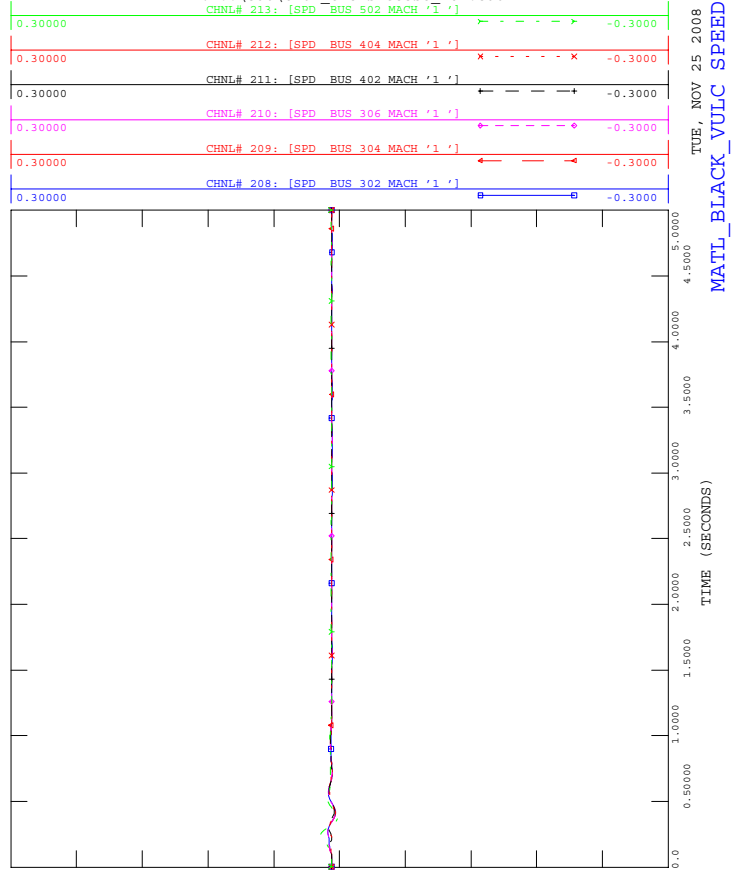
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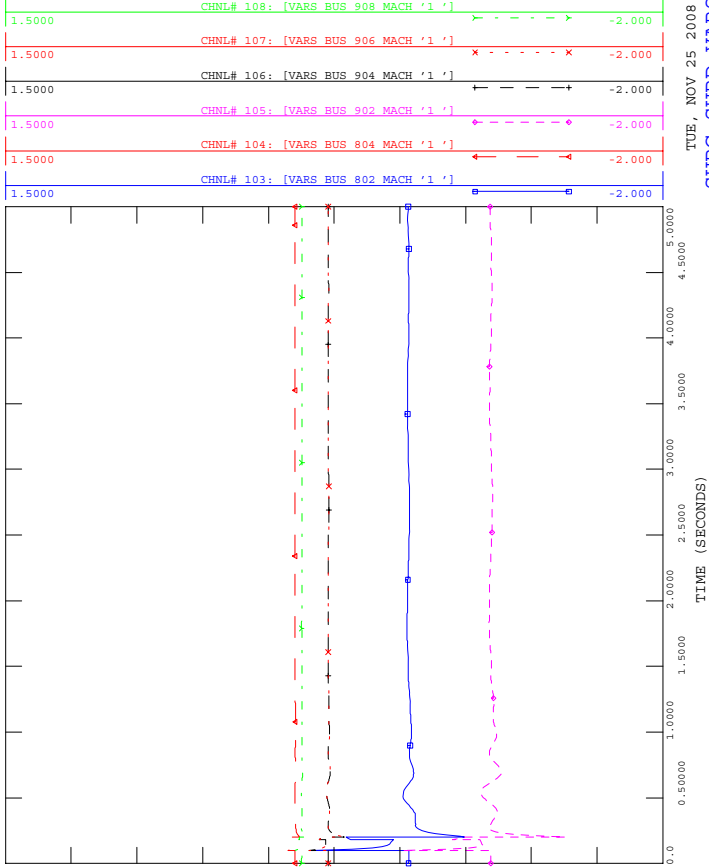
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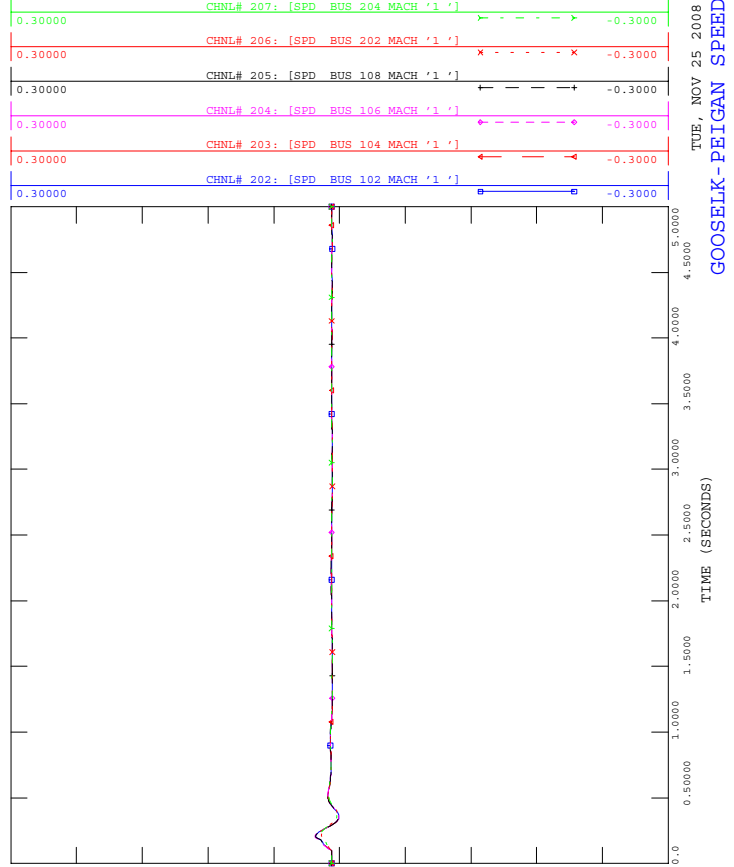
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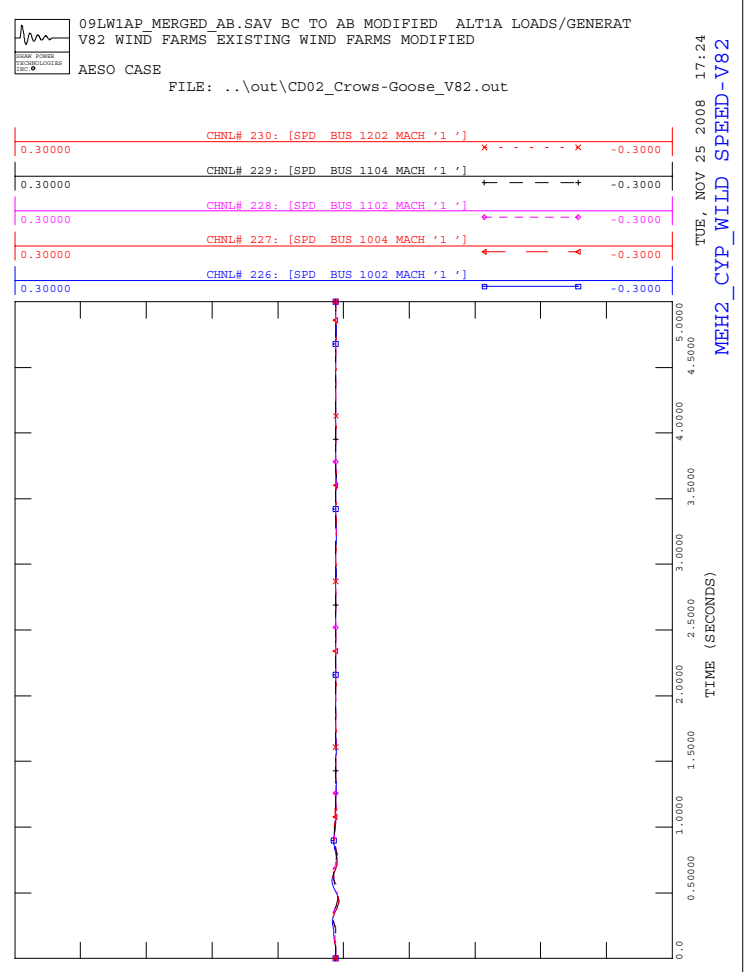
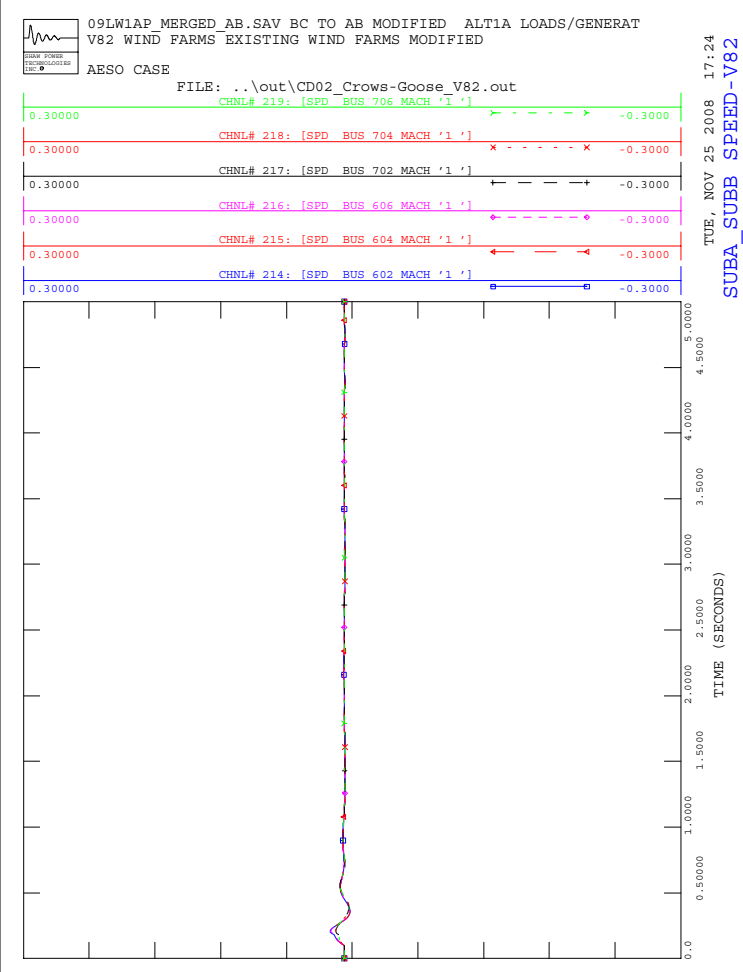
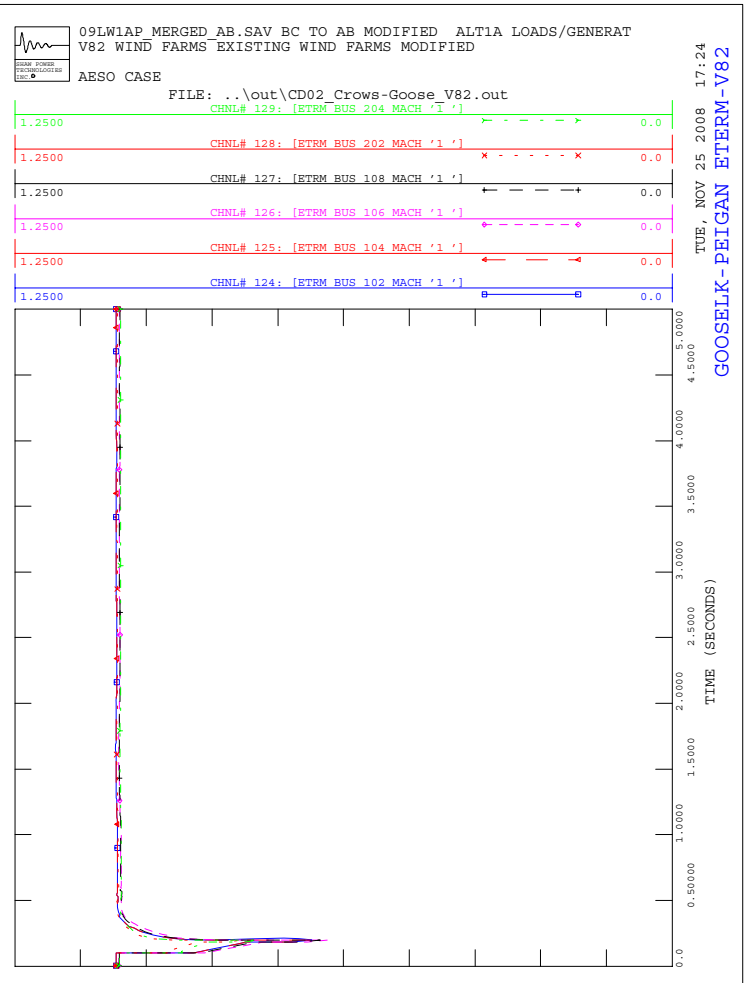
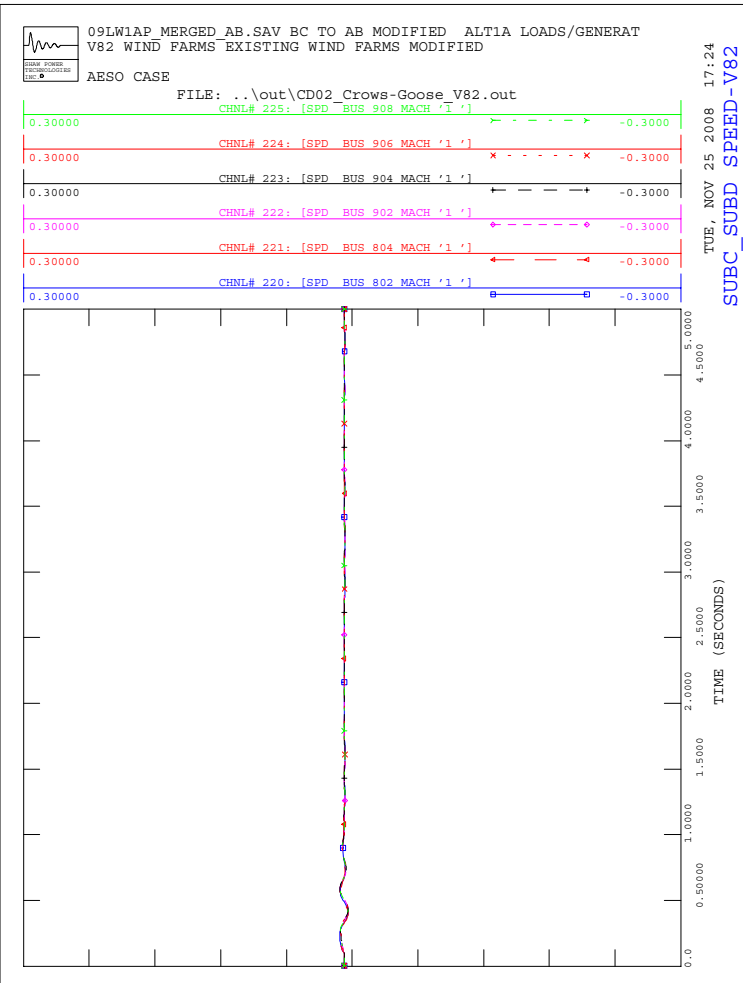
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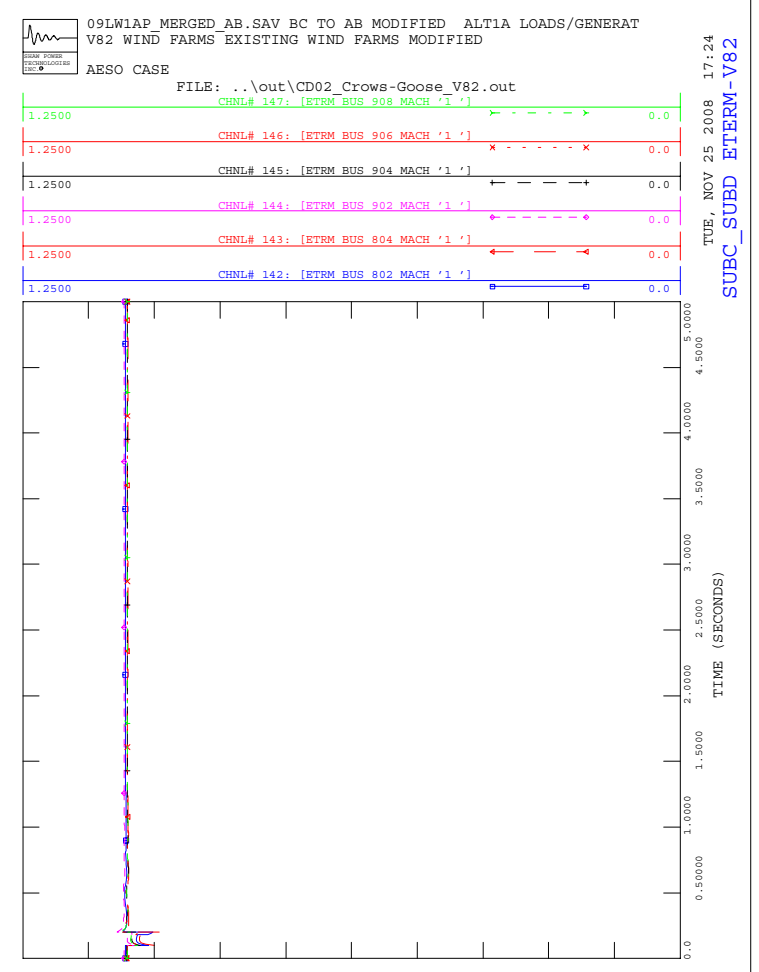
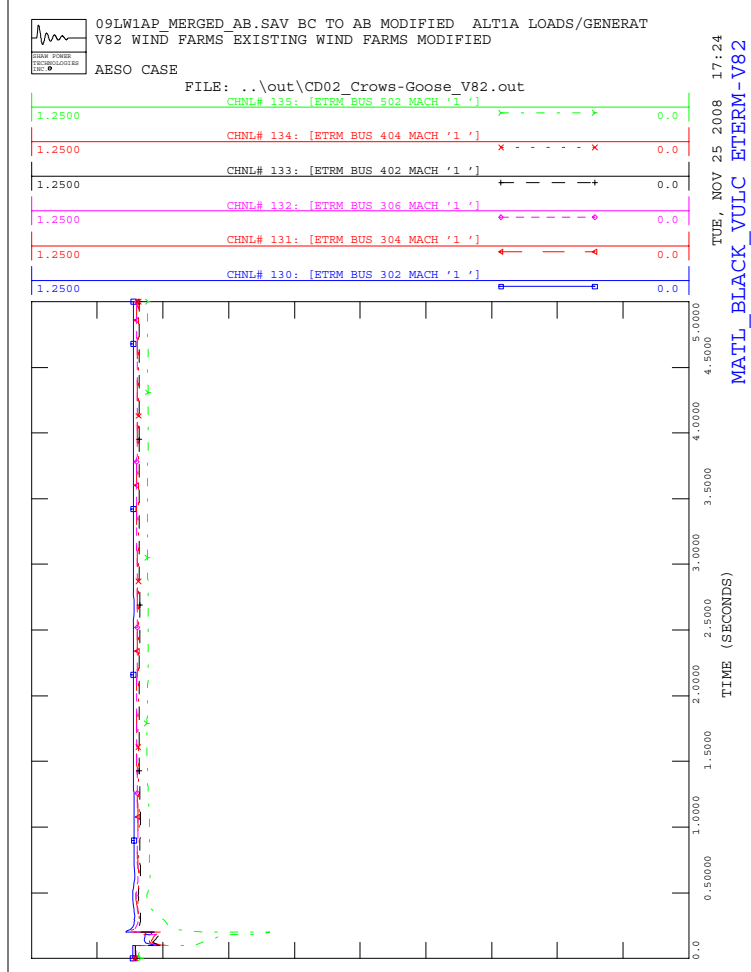
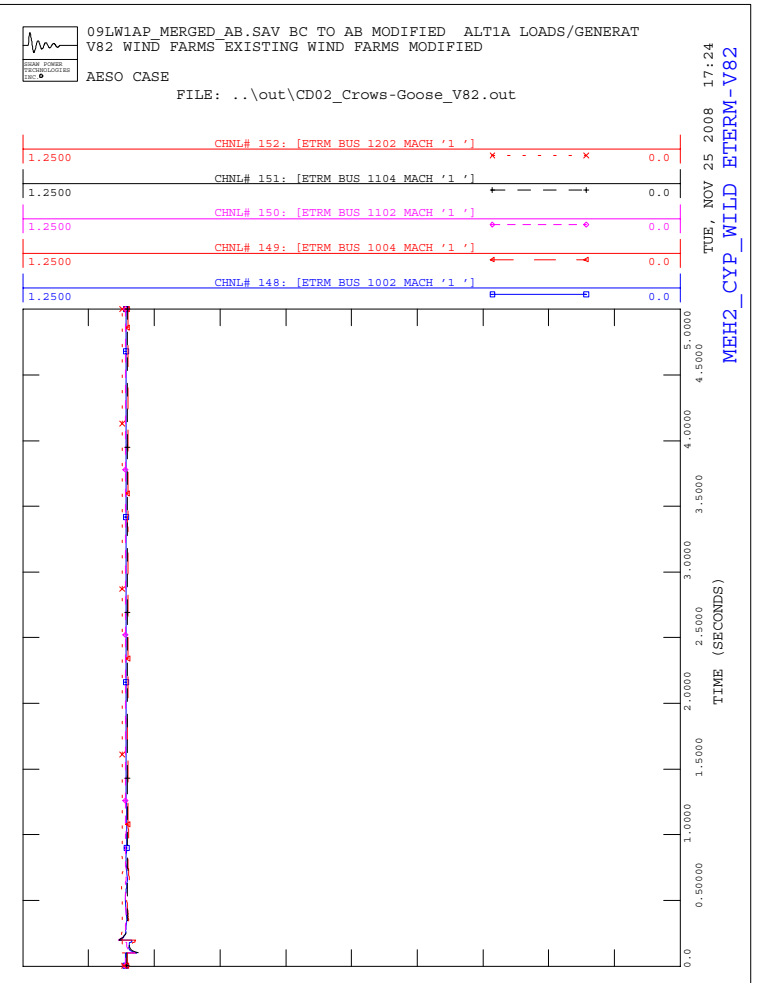
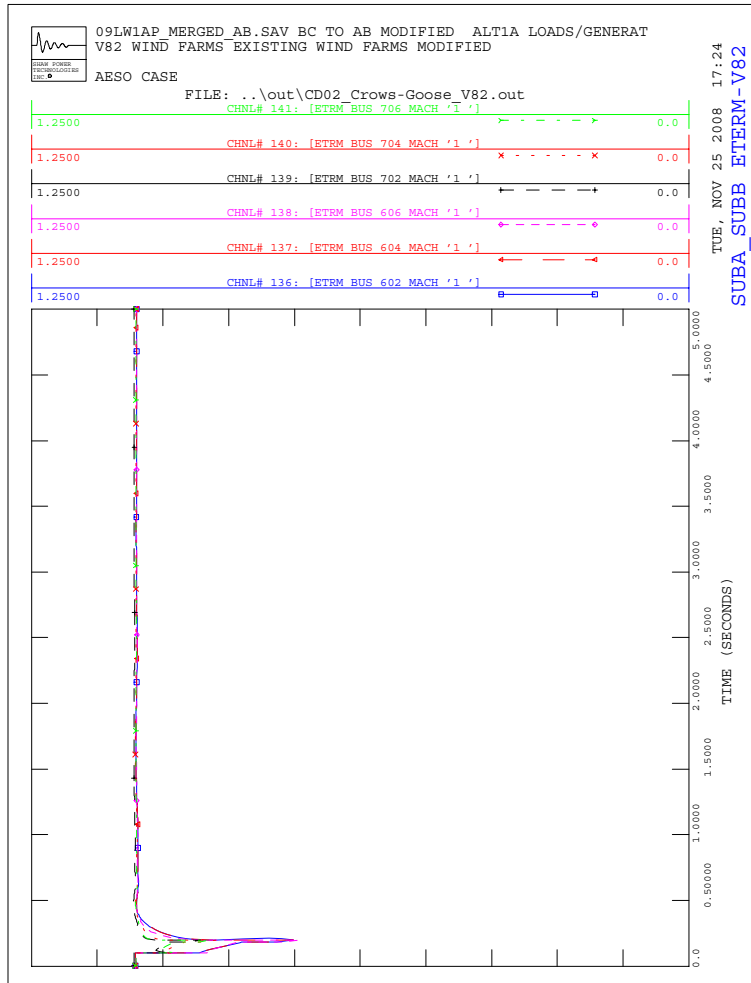


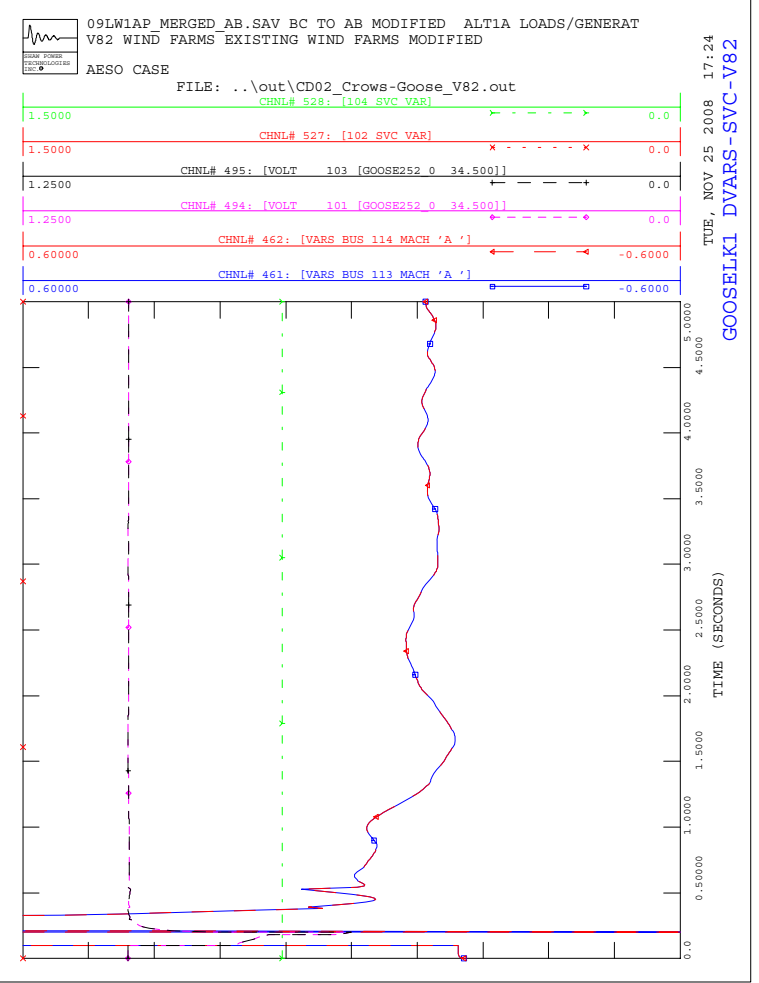
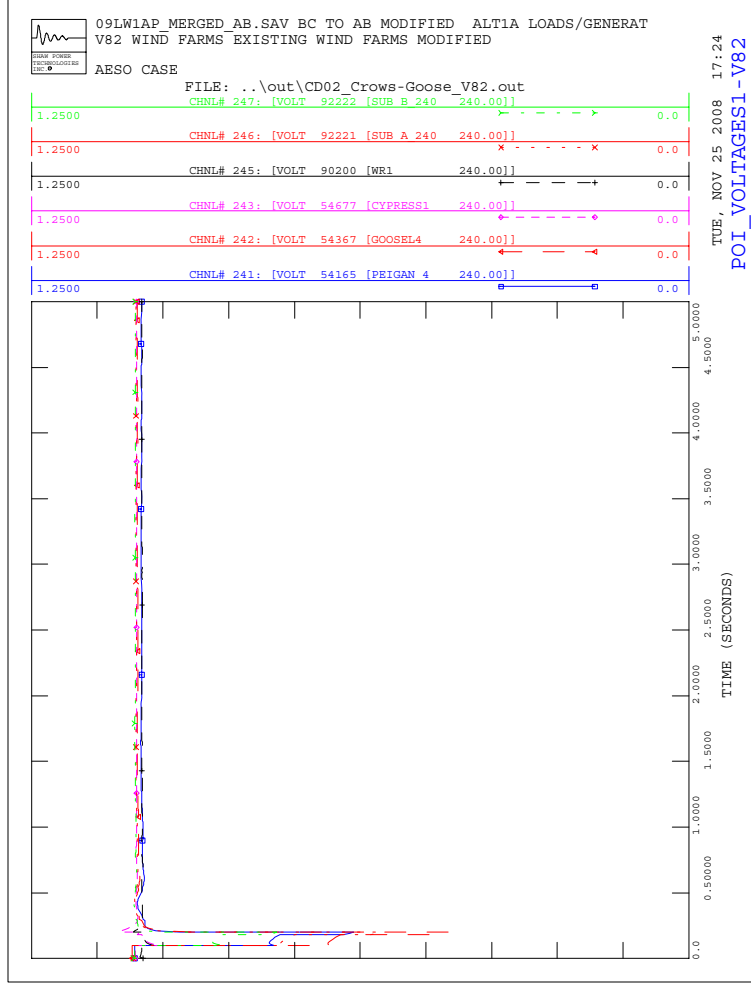
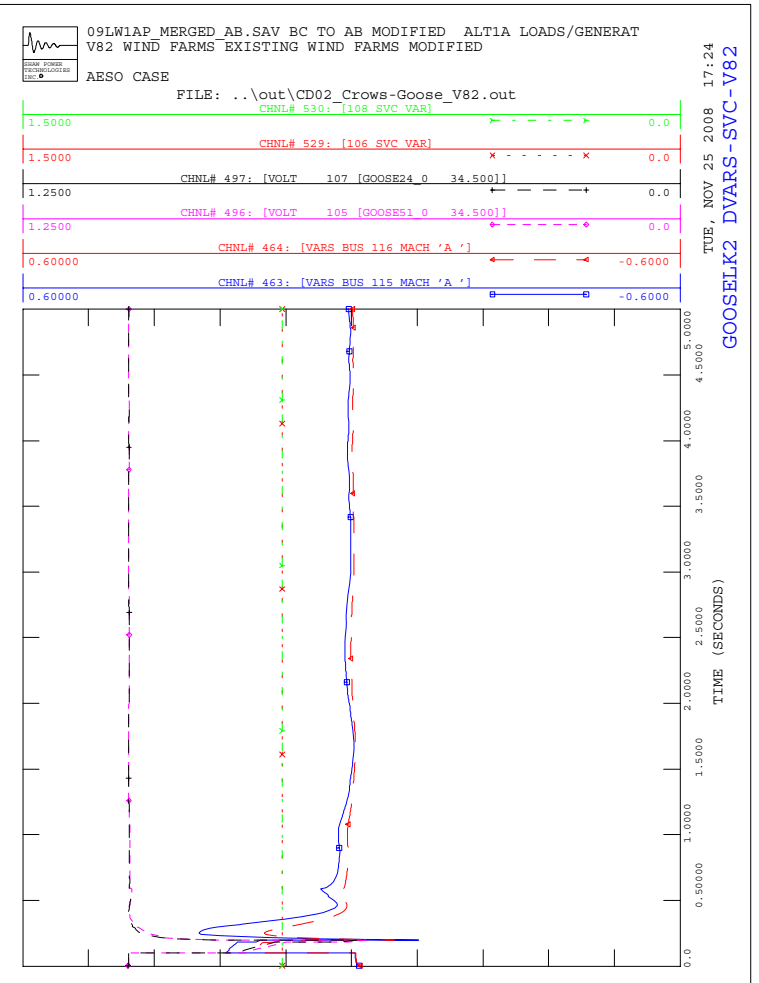
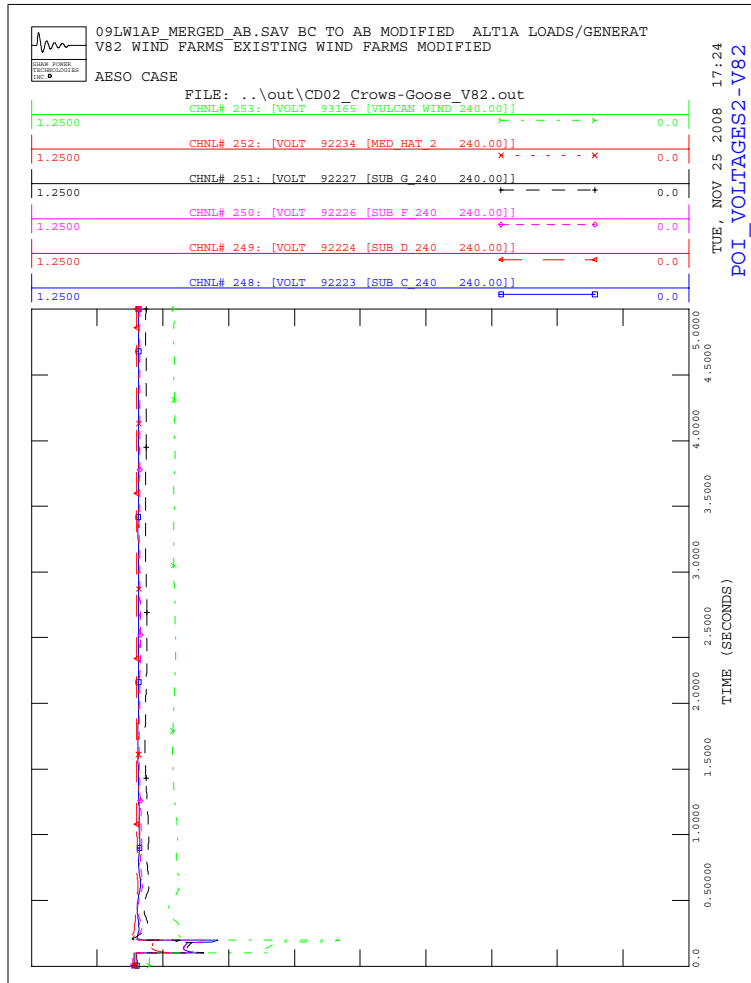
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 AESO CASE

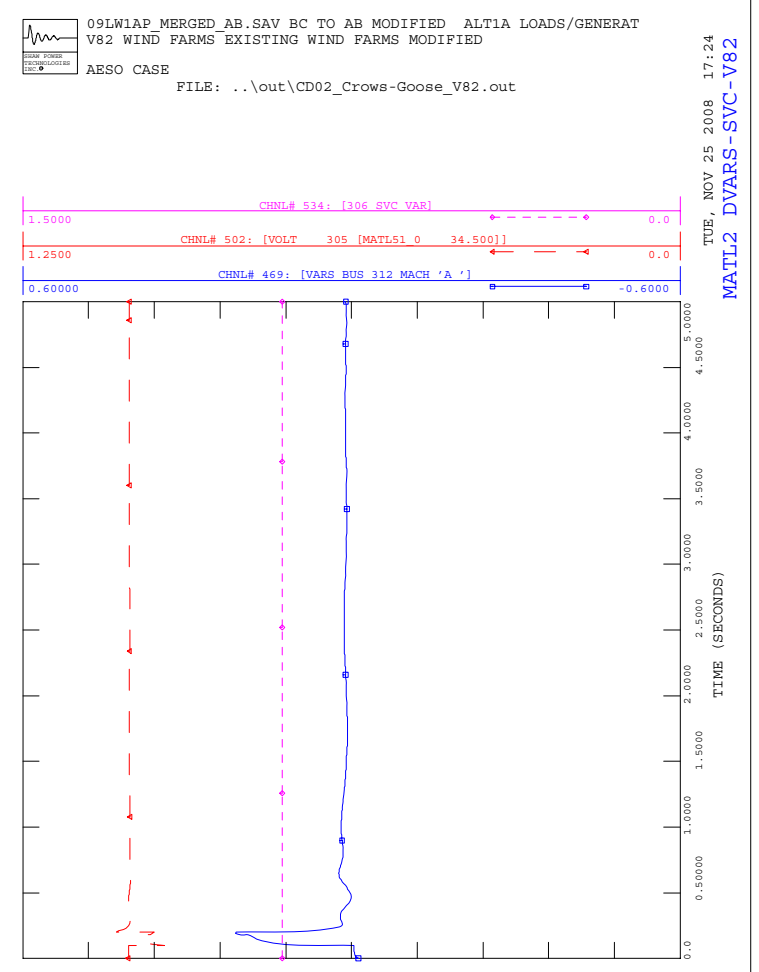
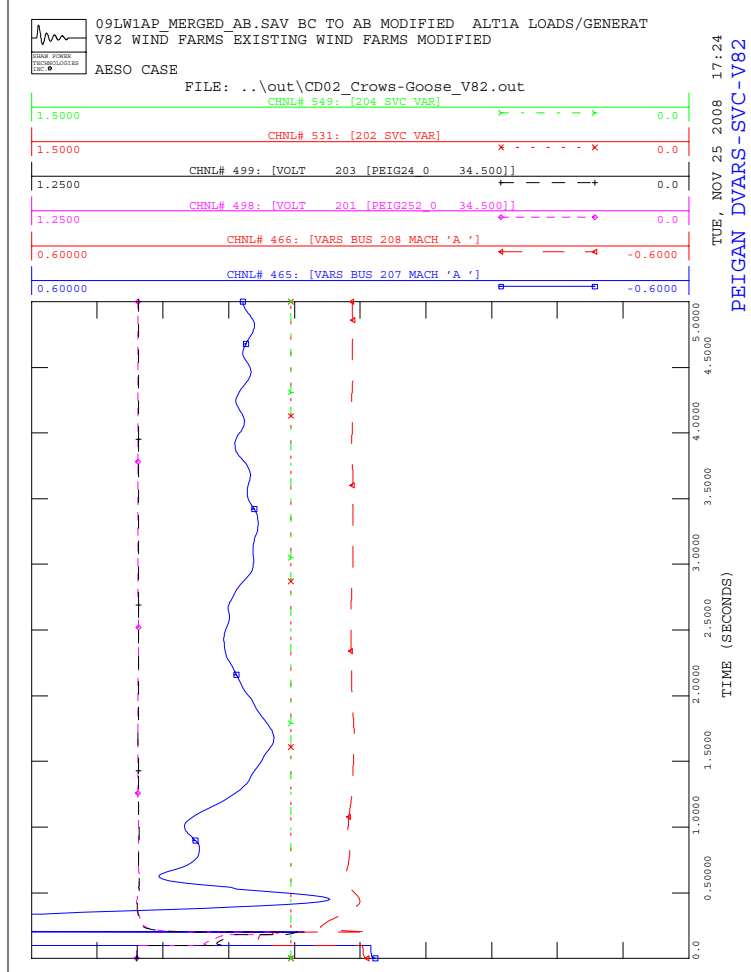
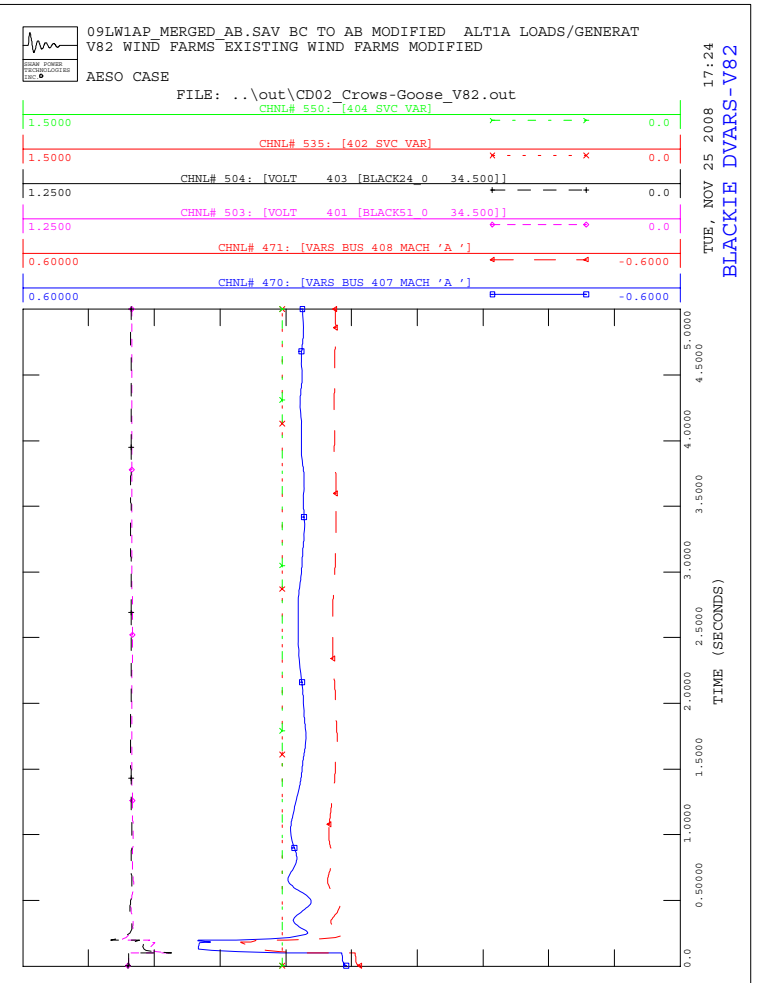
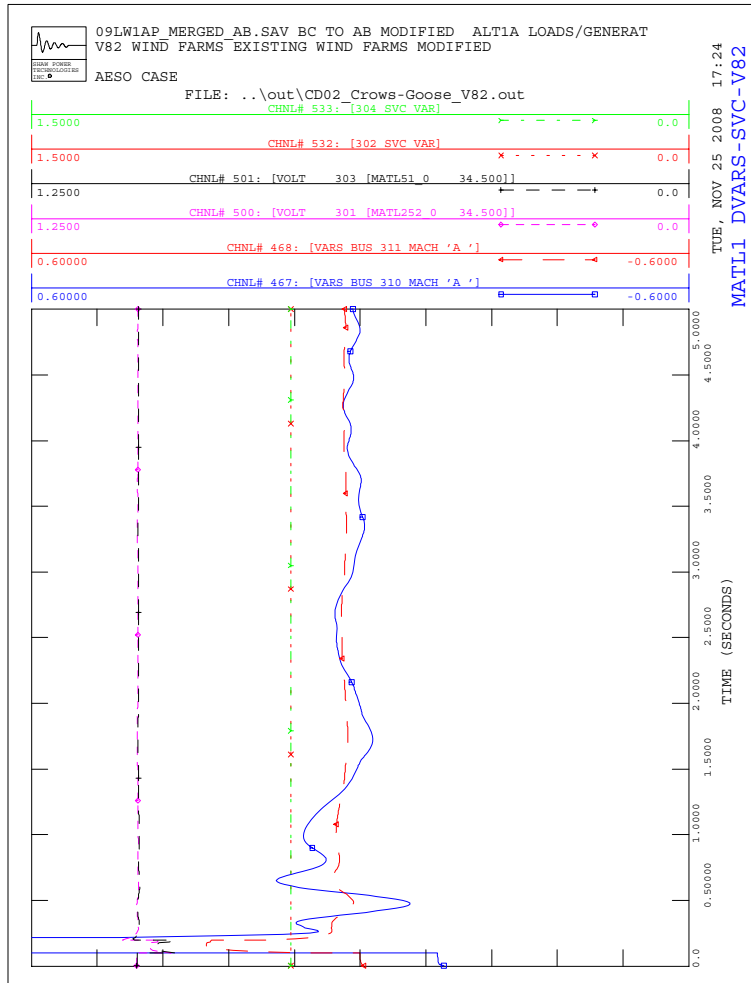
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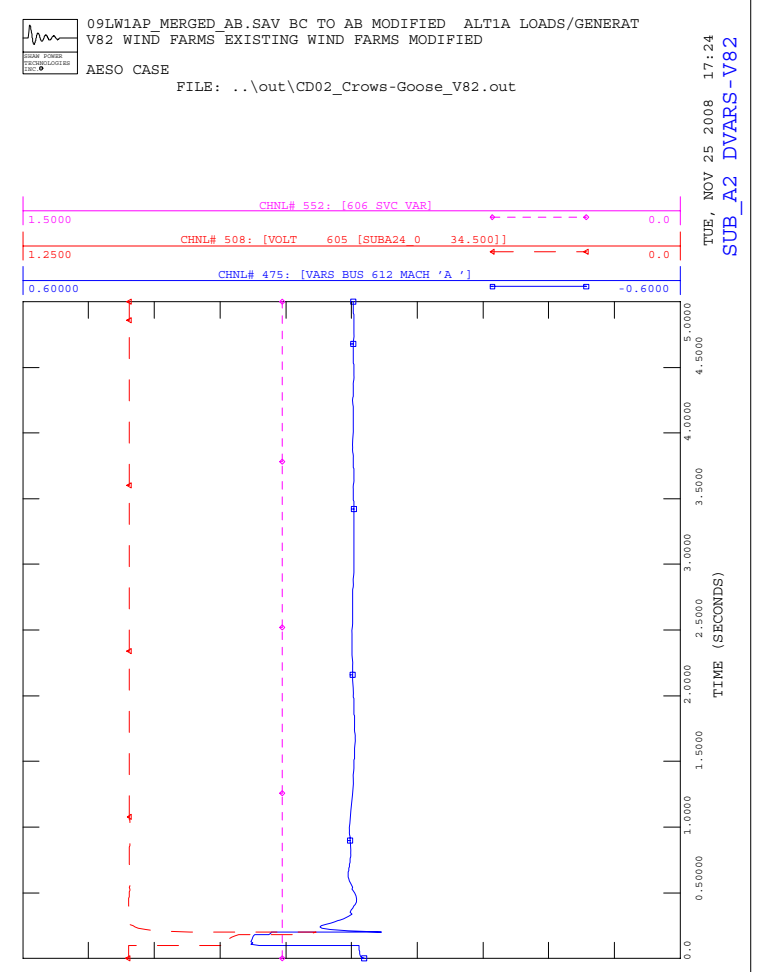
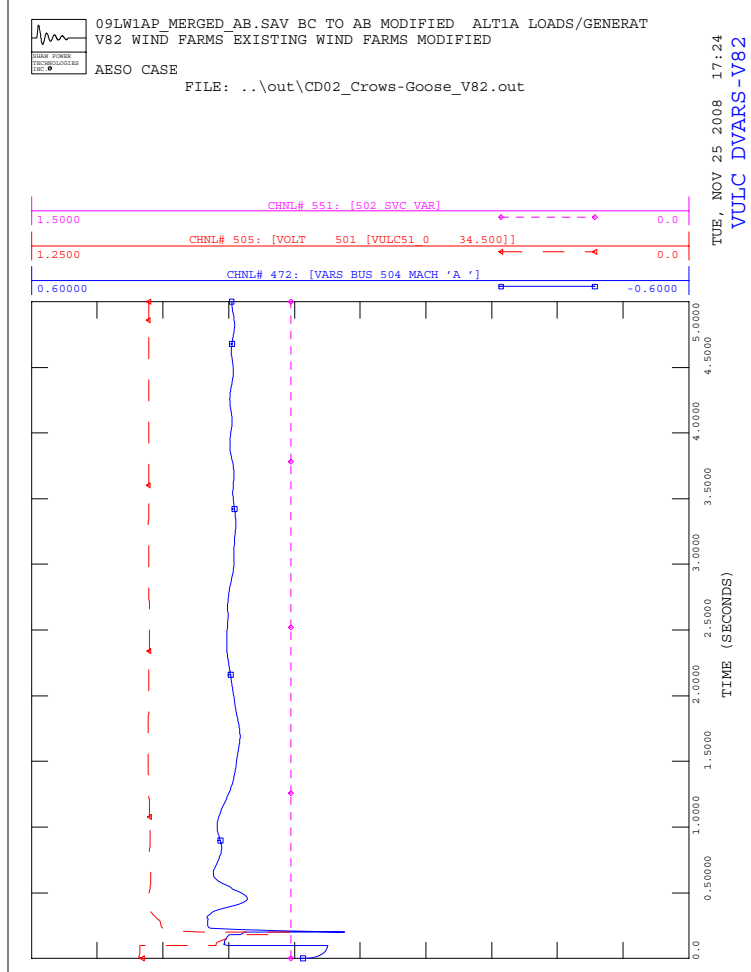
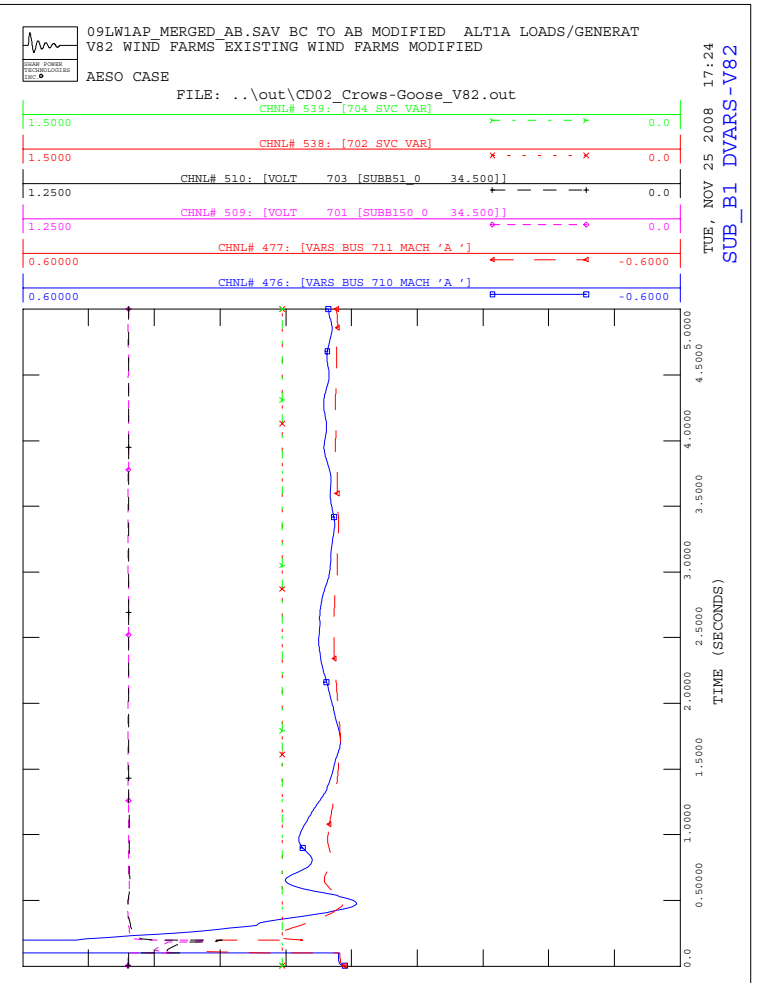
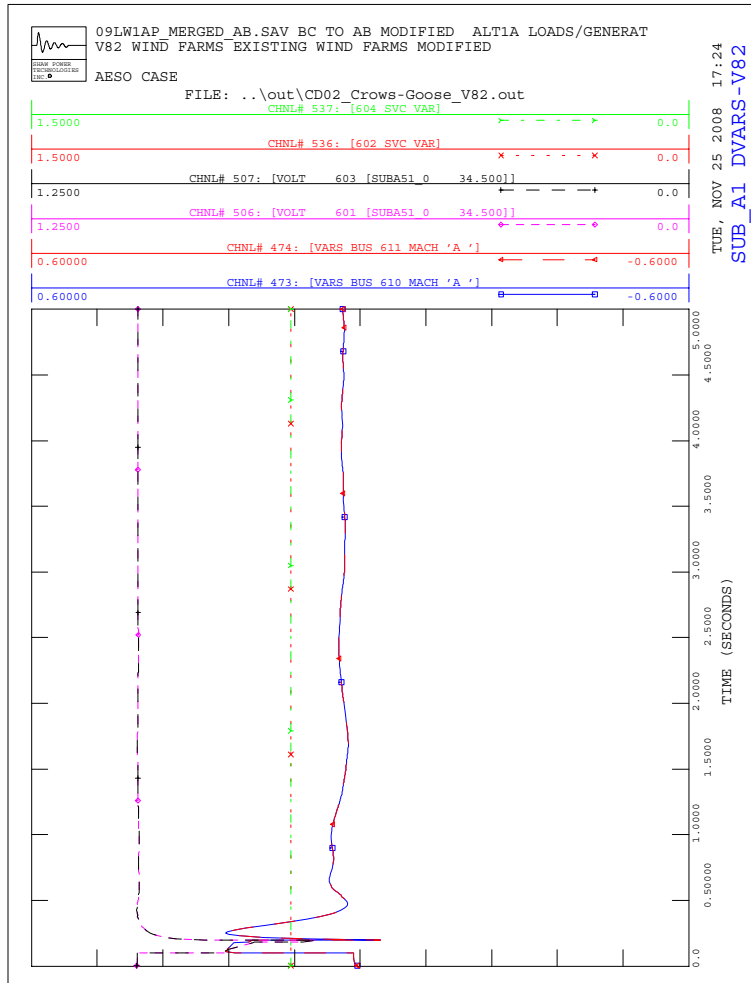


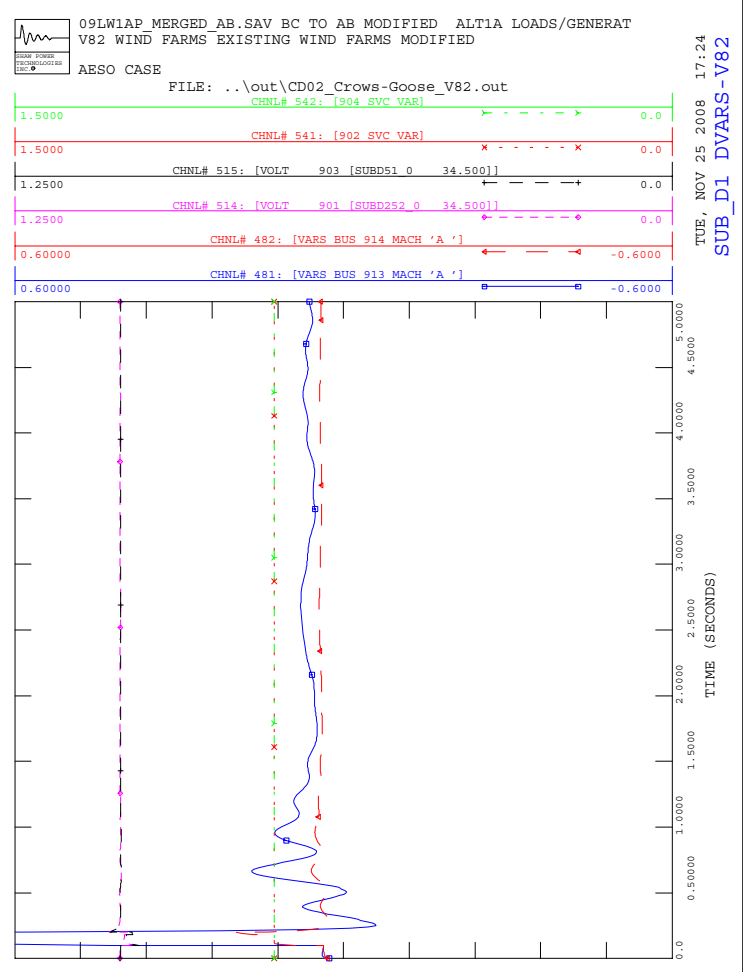
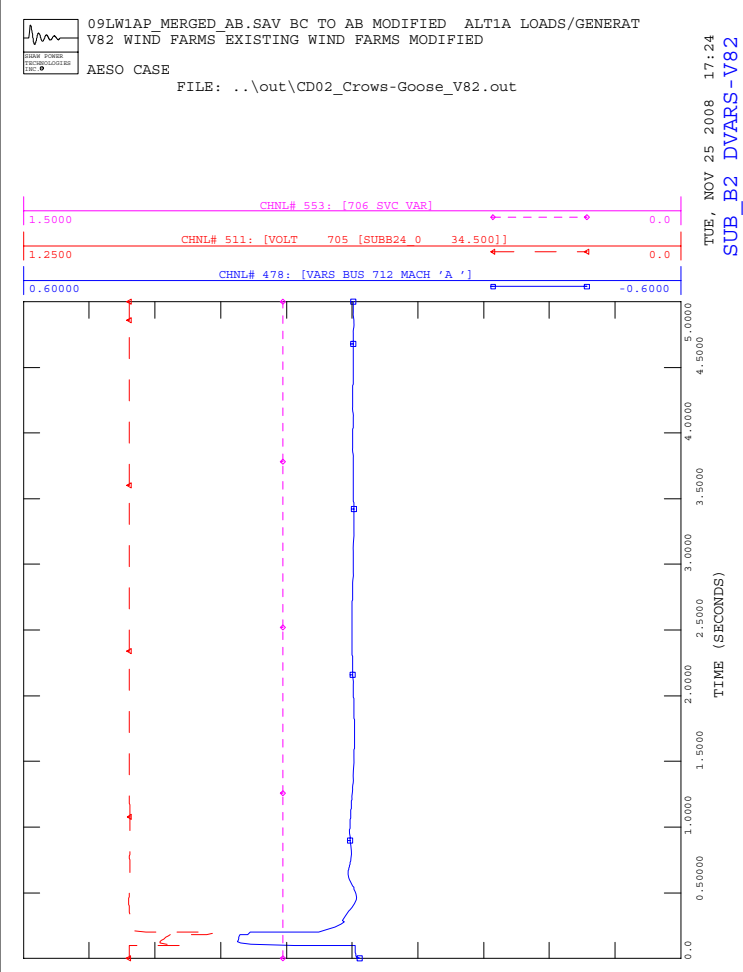
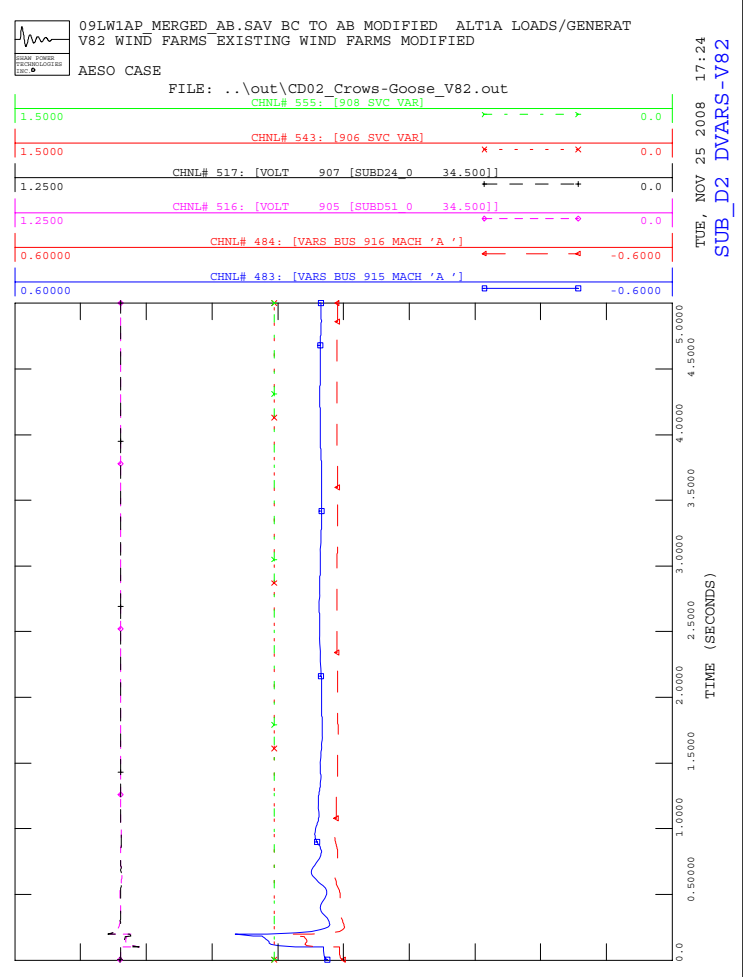
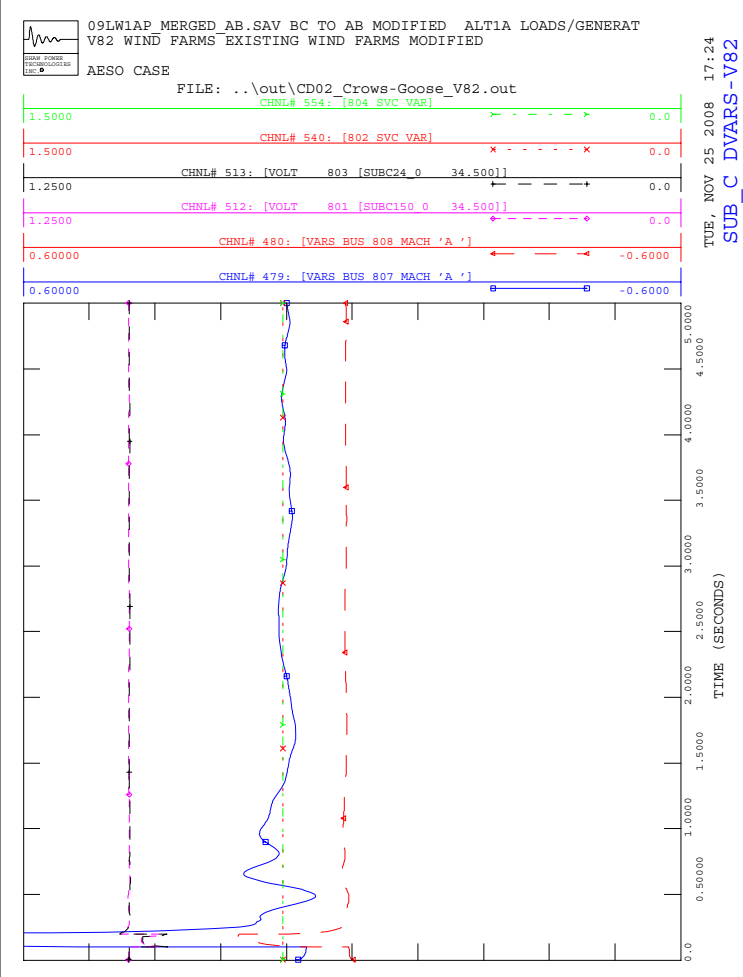


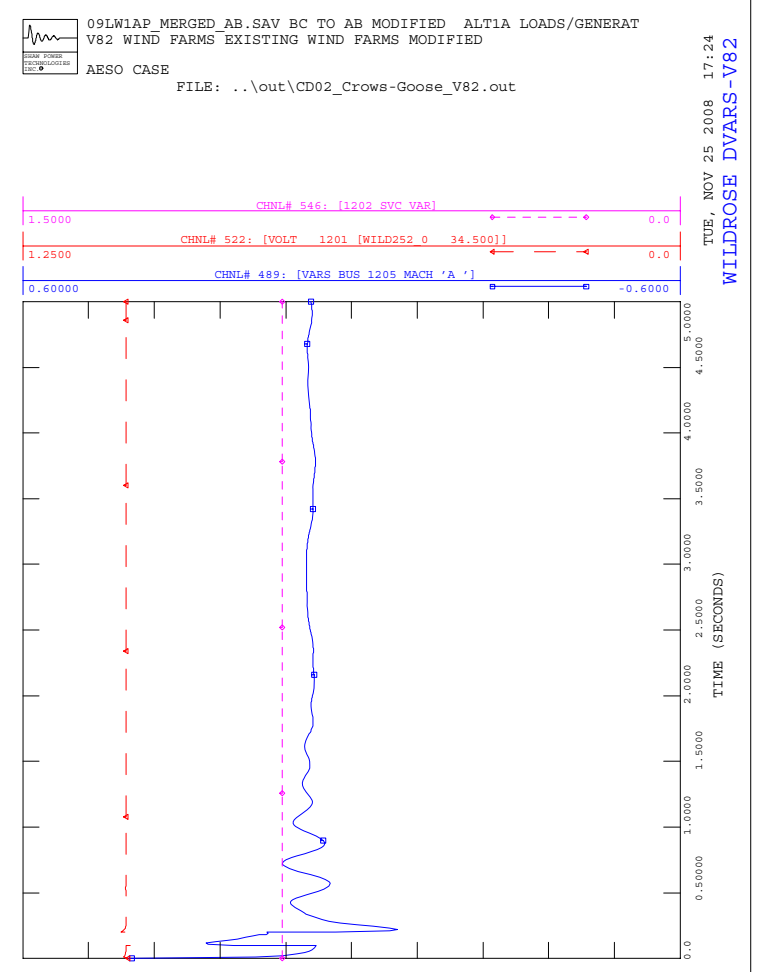
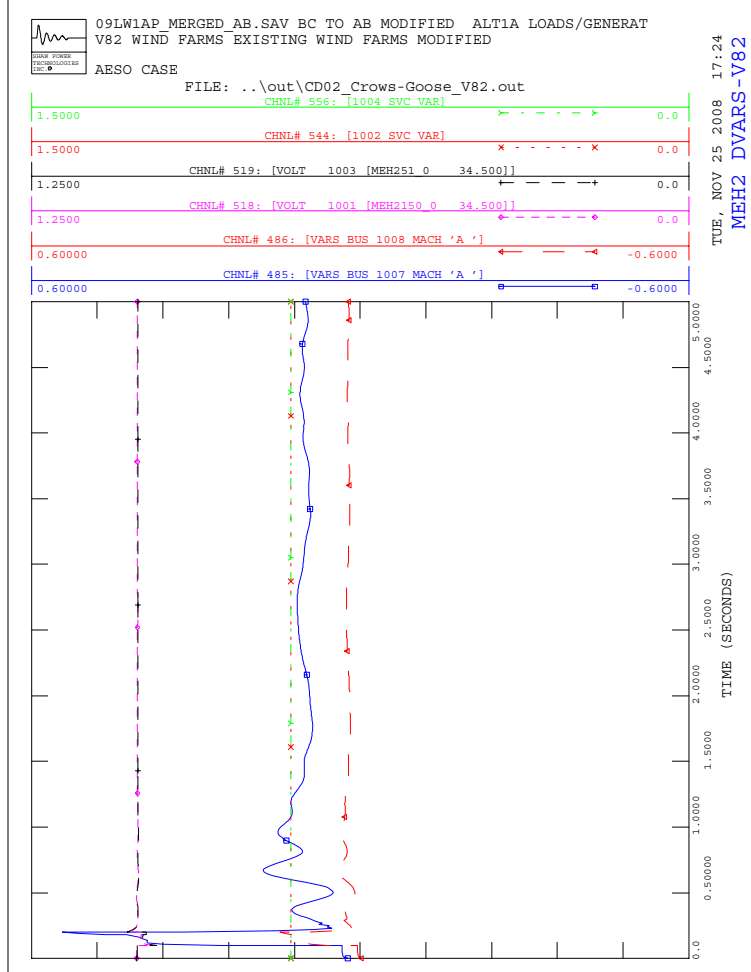
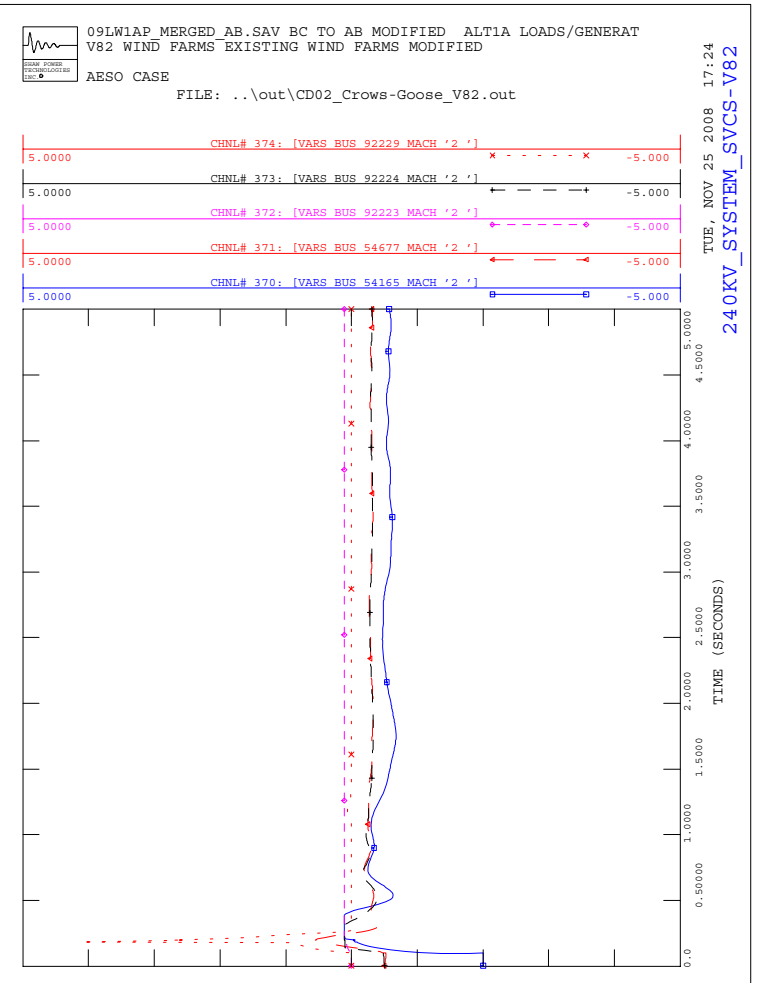
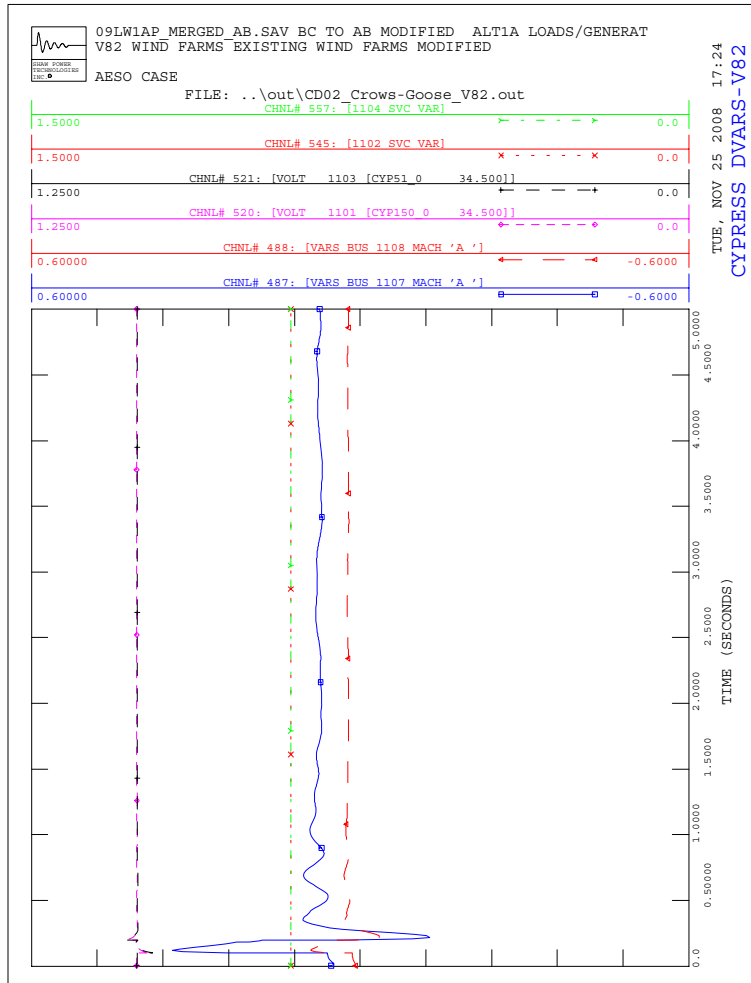












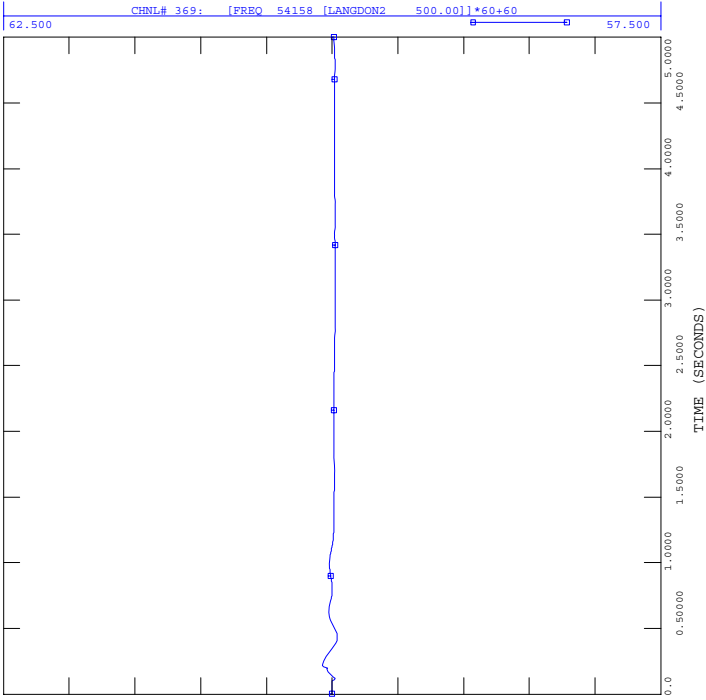


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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

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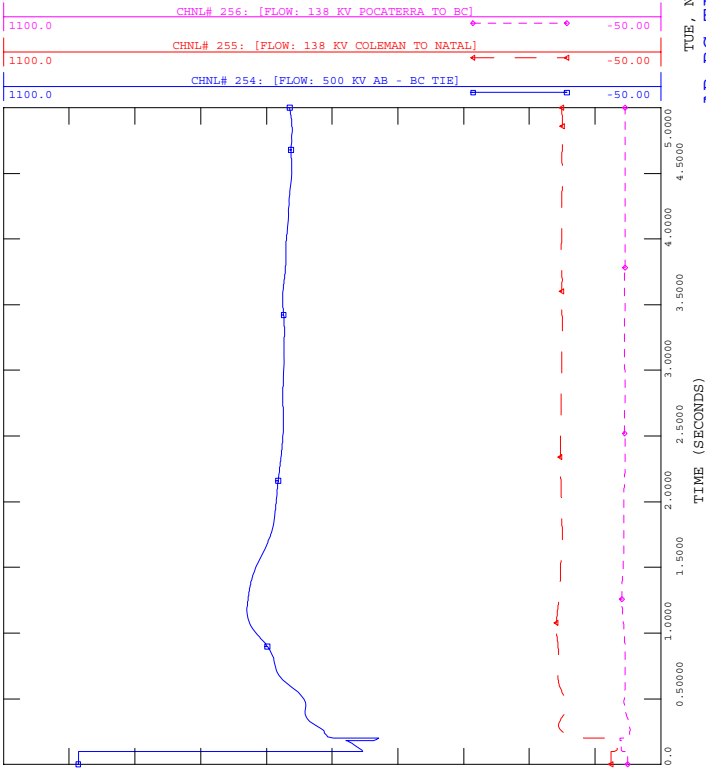


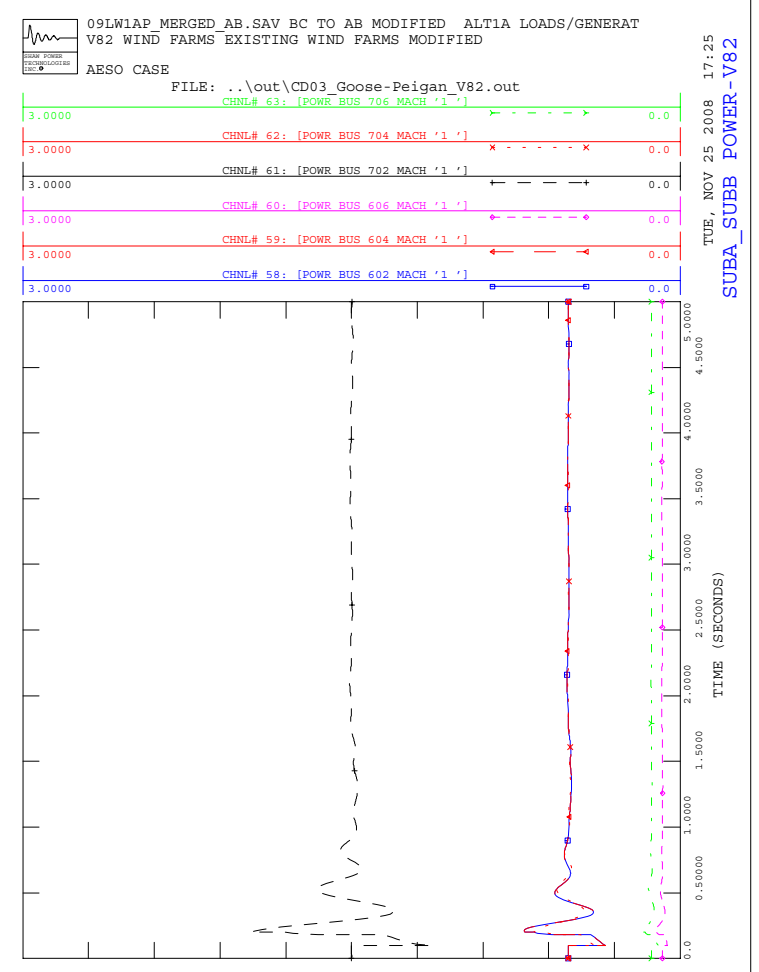
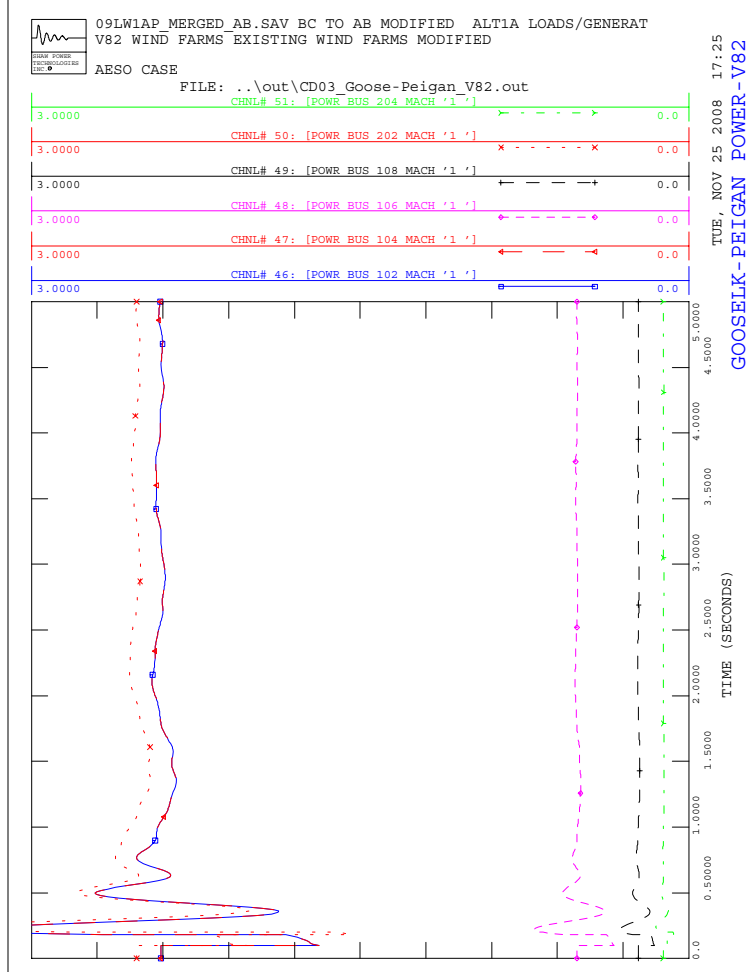
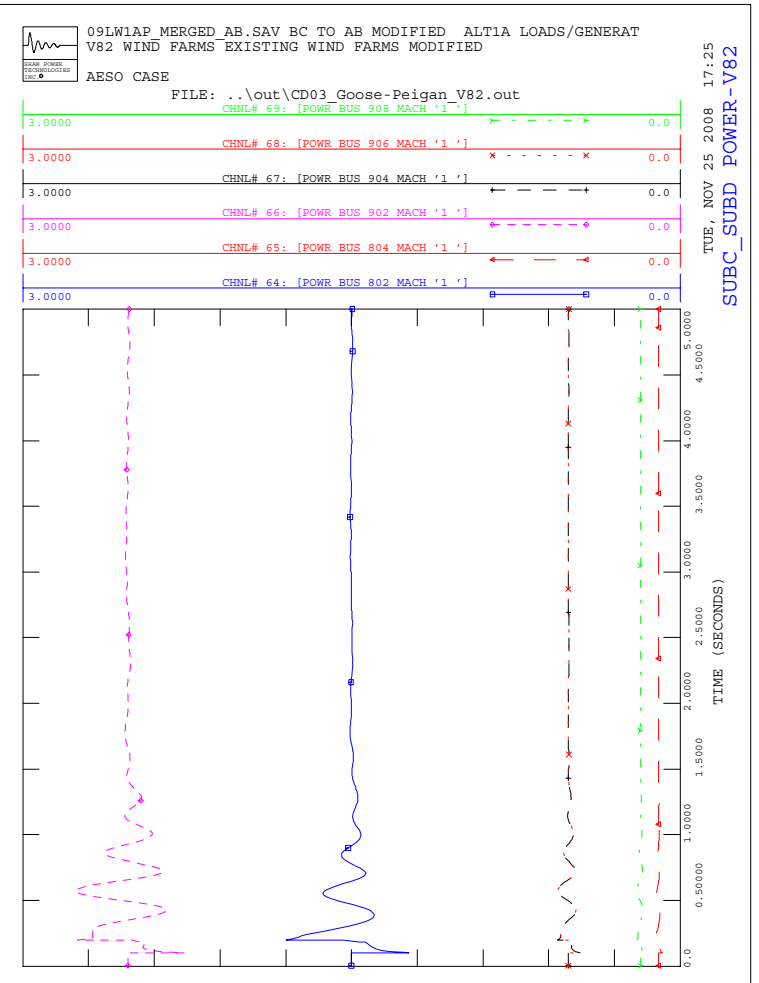
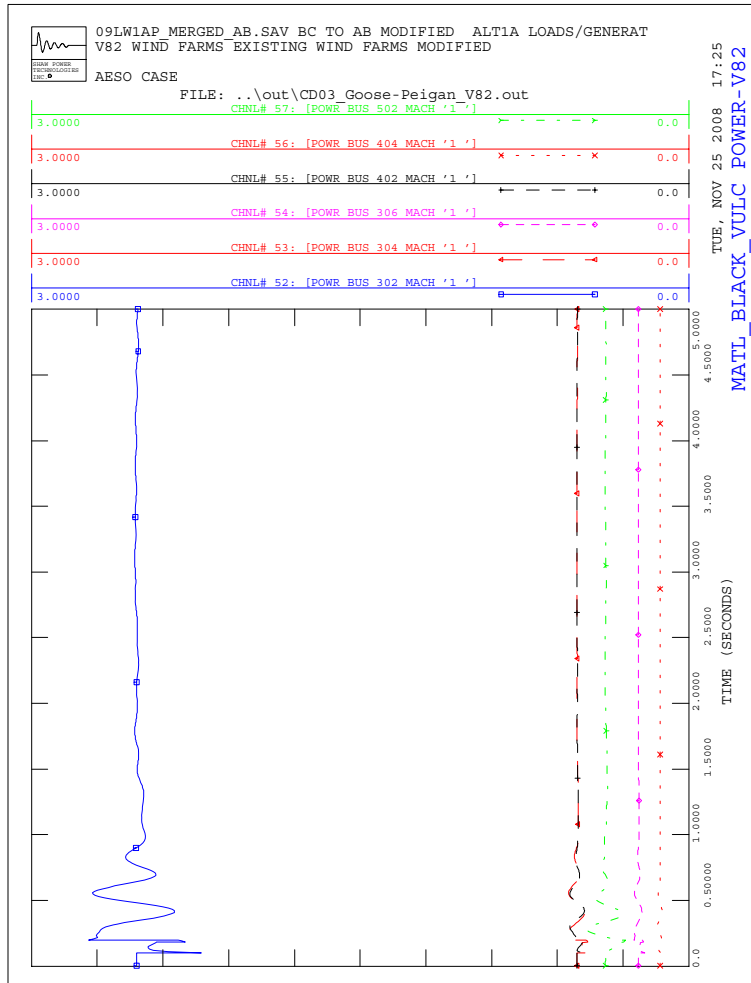
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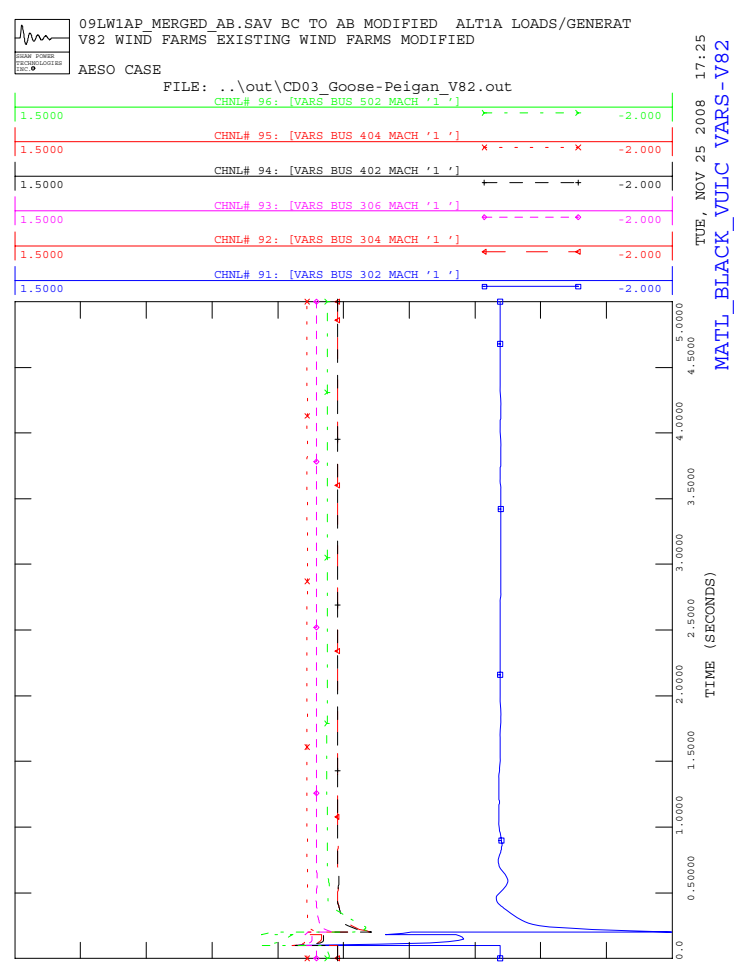
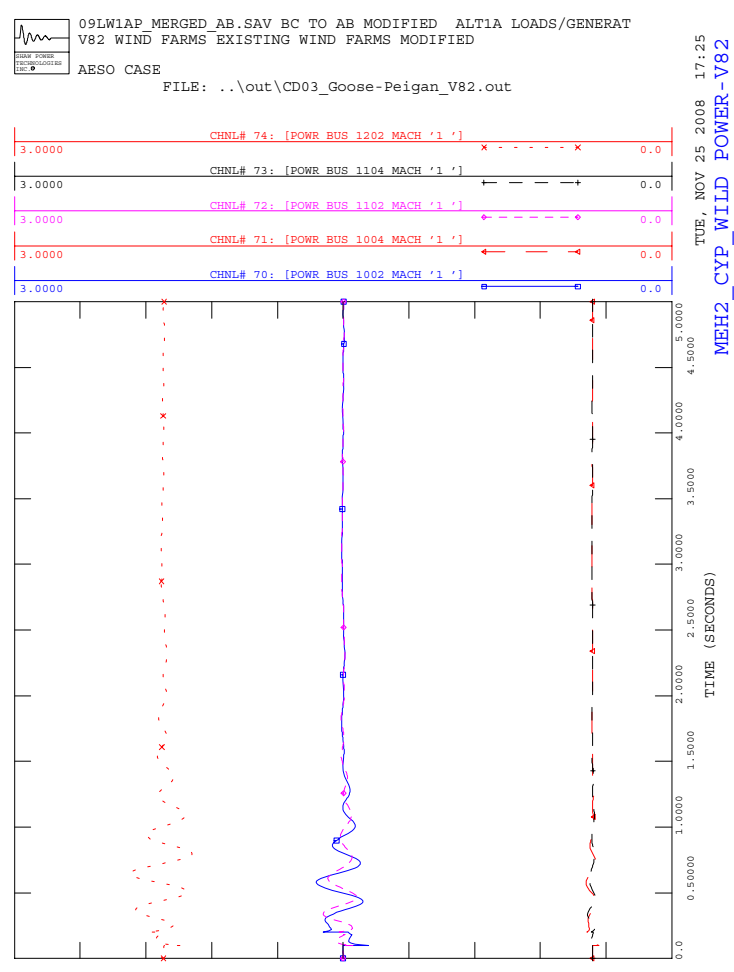
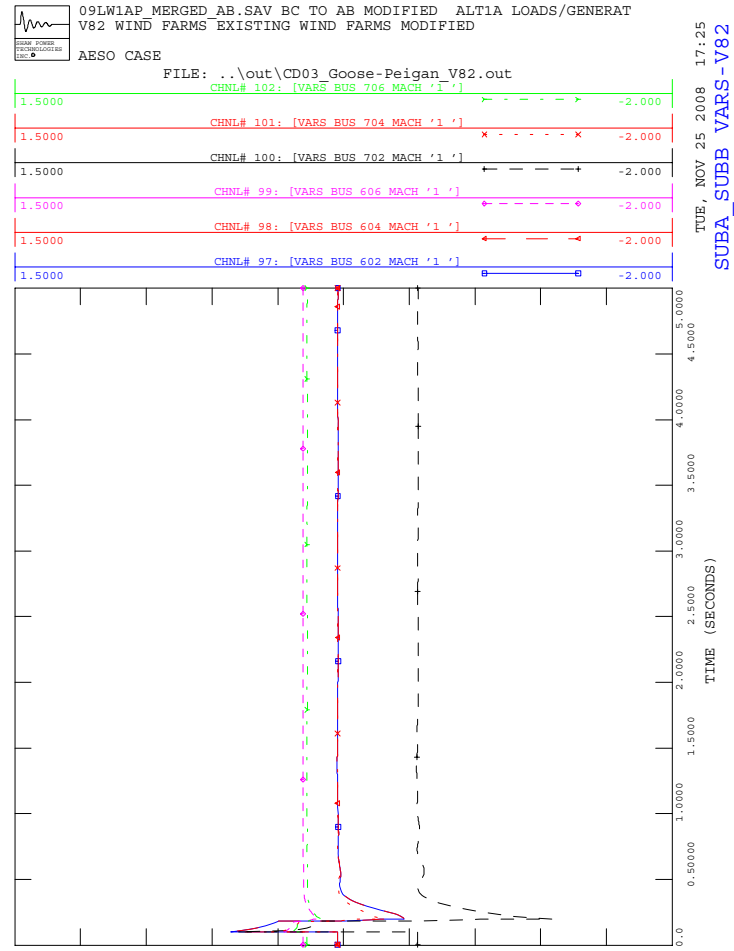
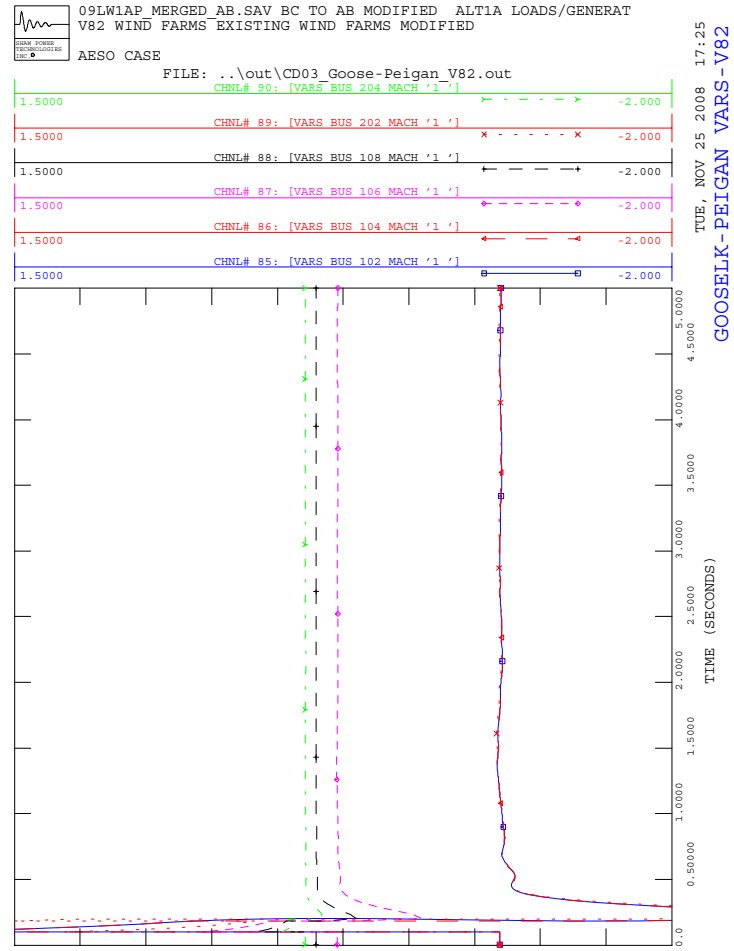
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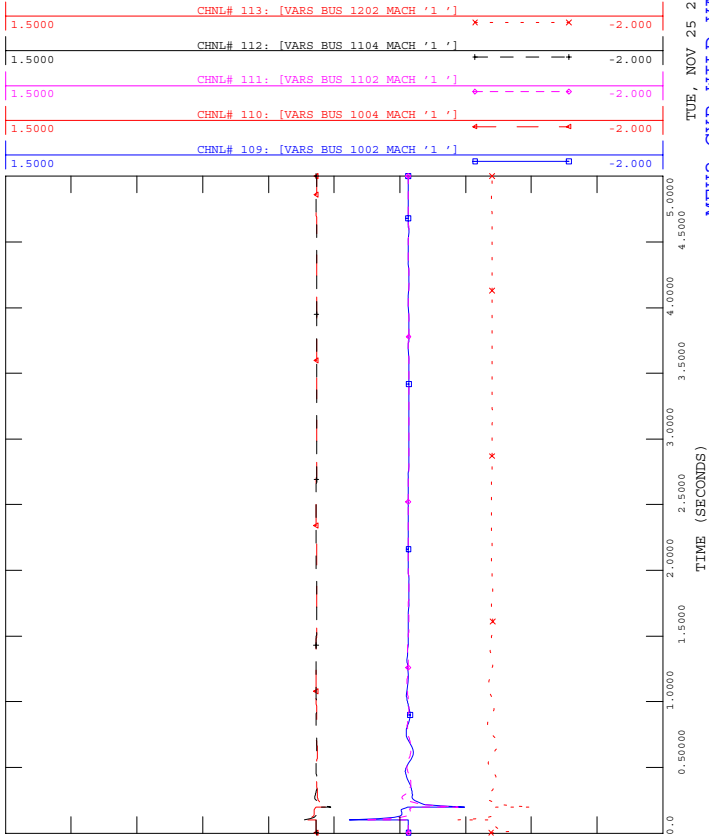






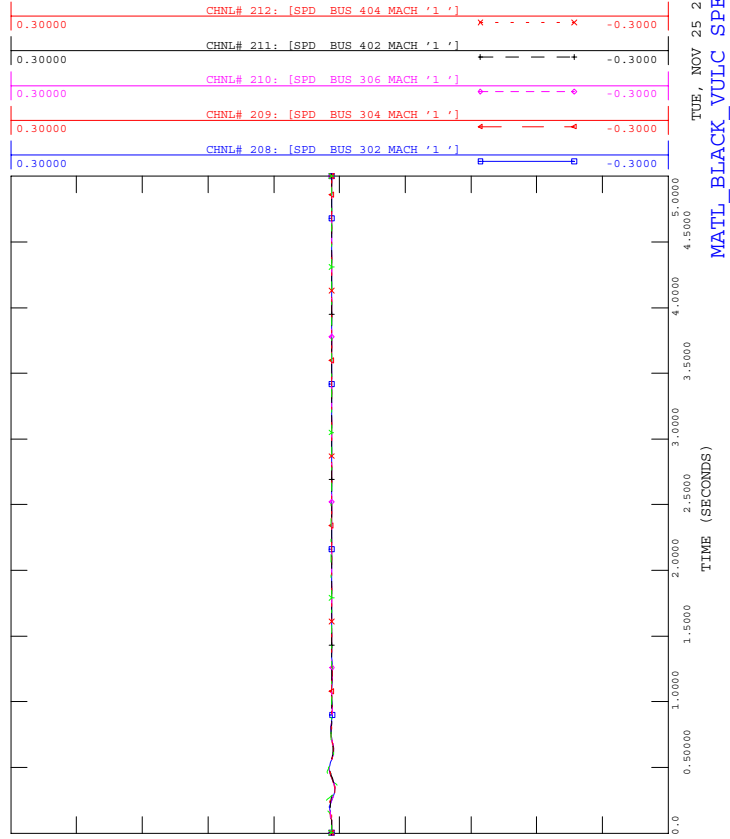
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ABSO CASE

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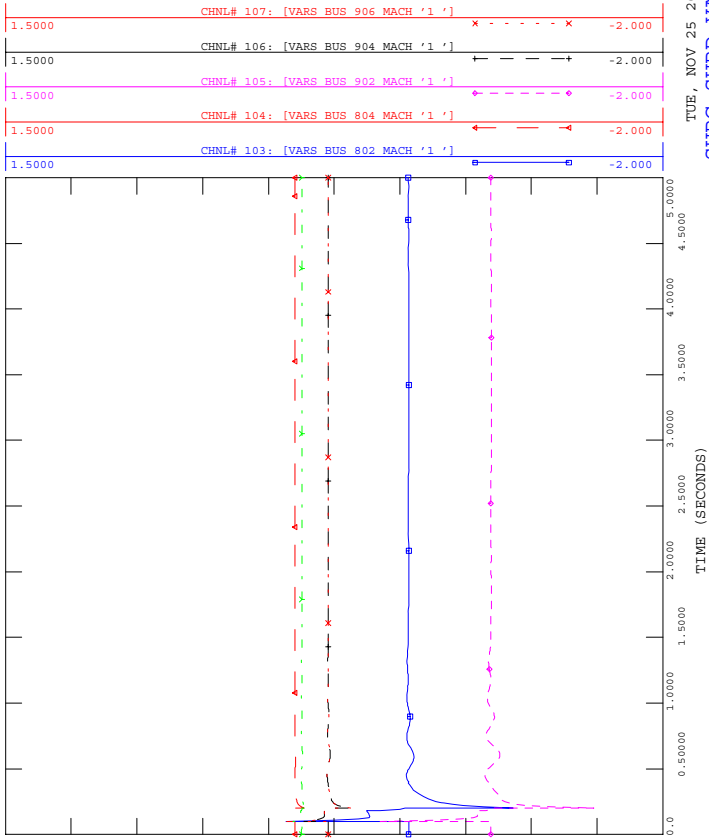
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ABSO CASE

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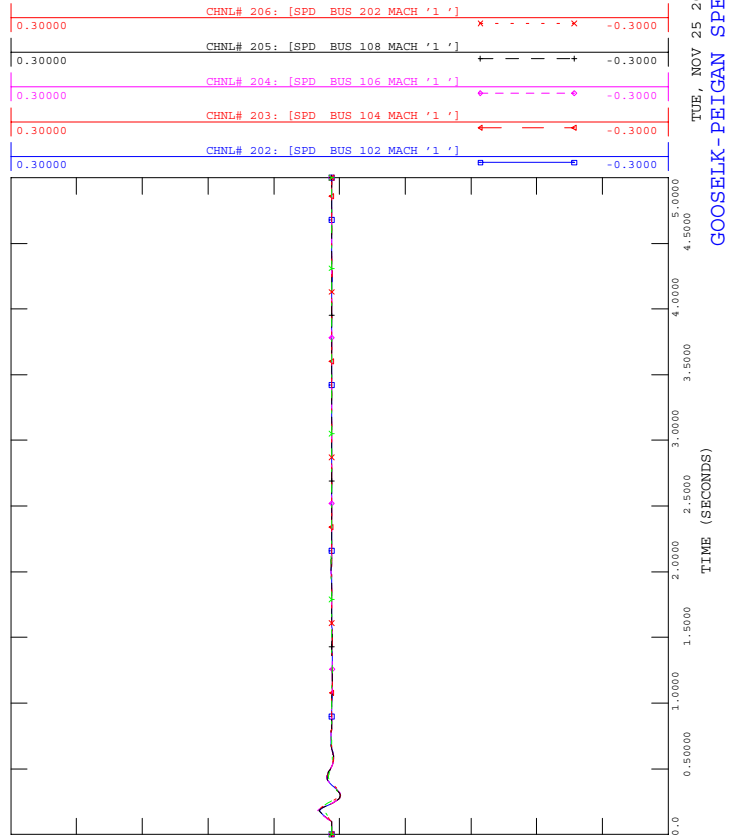
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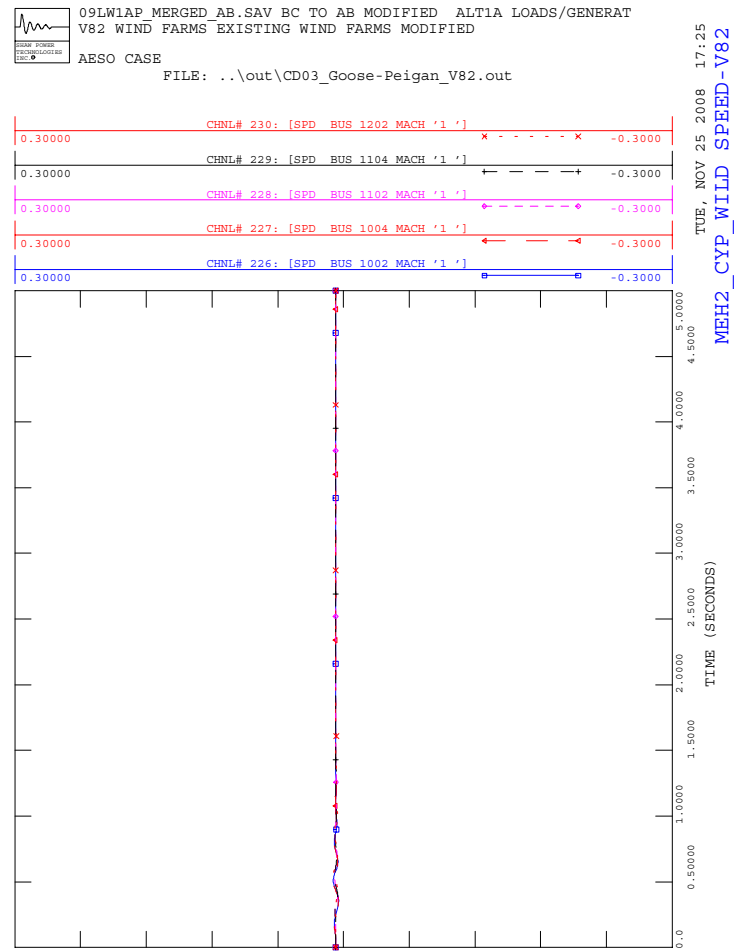
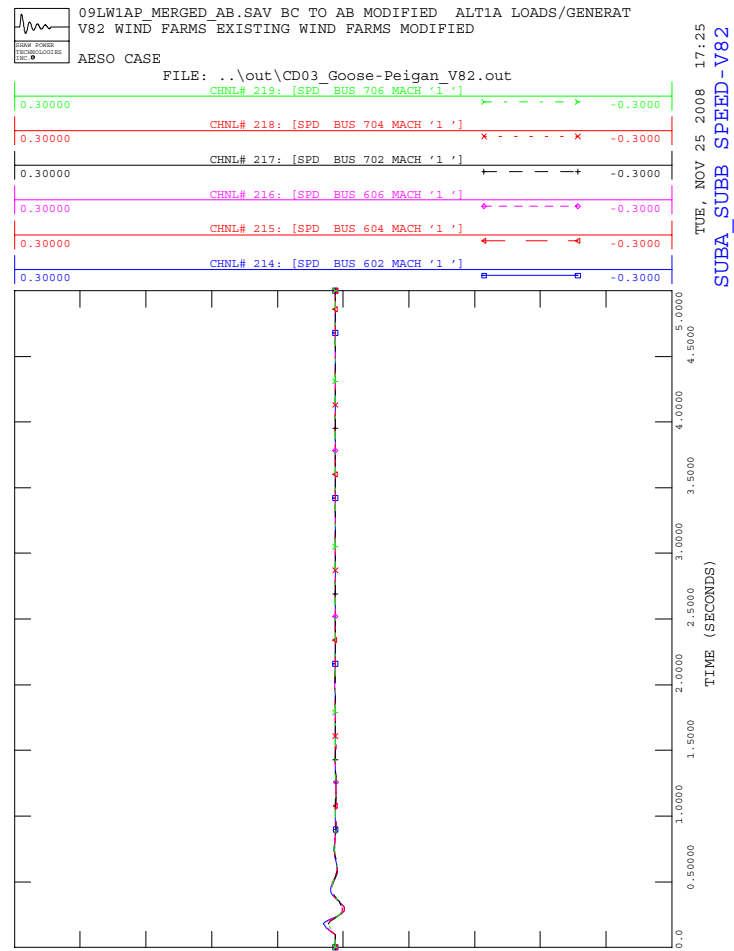
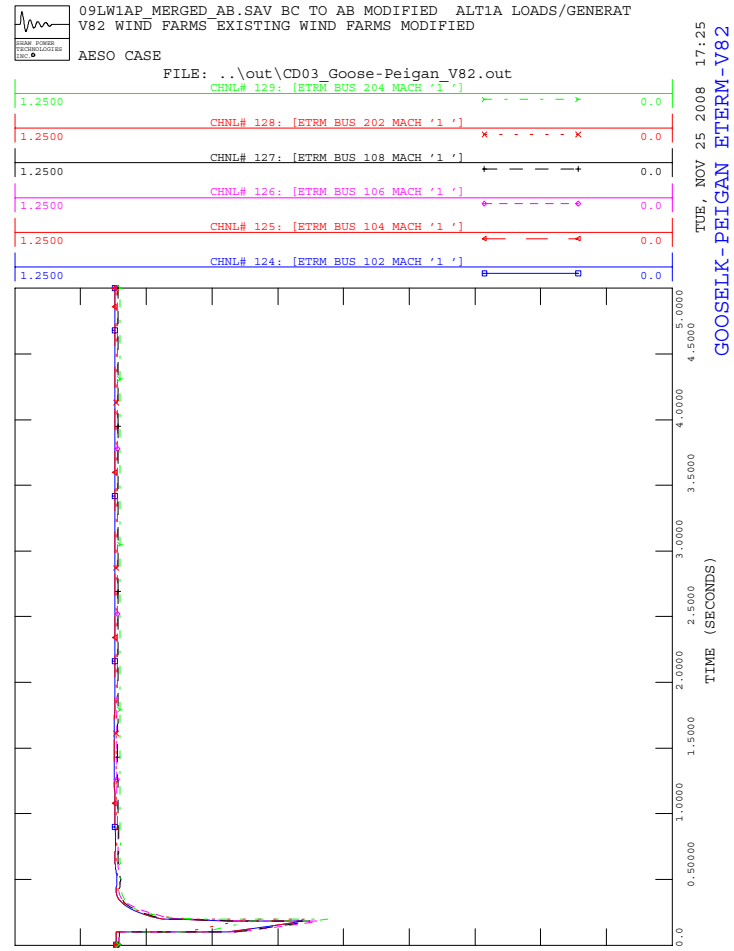
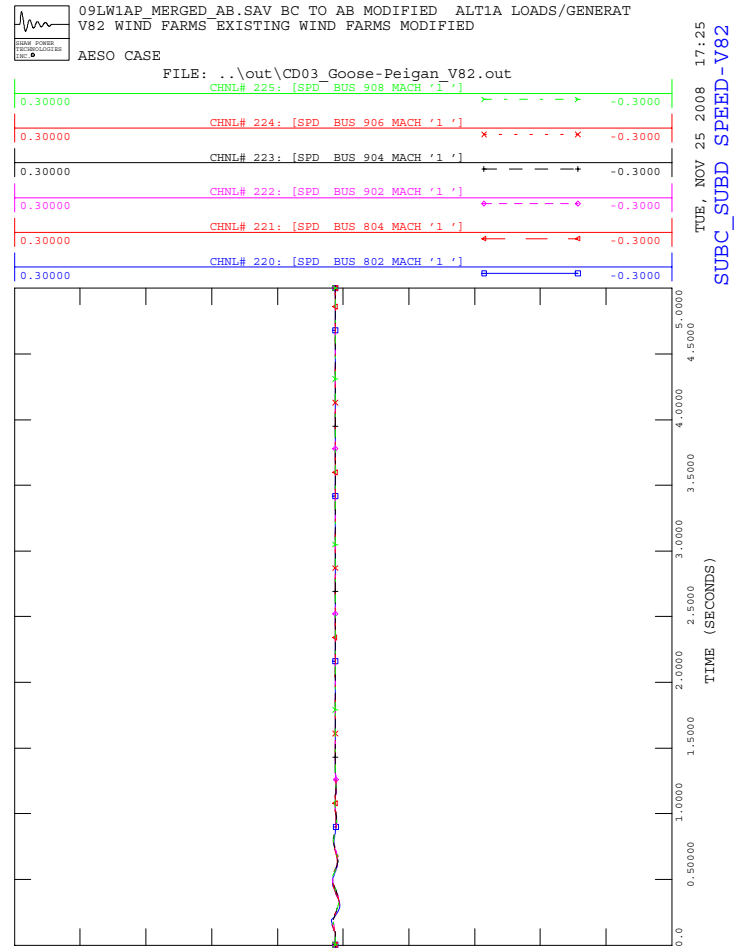
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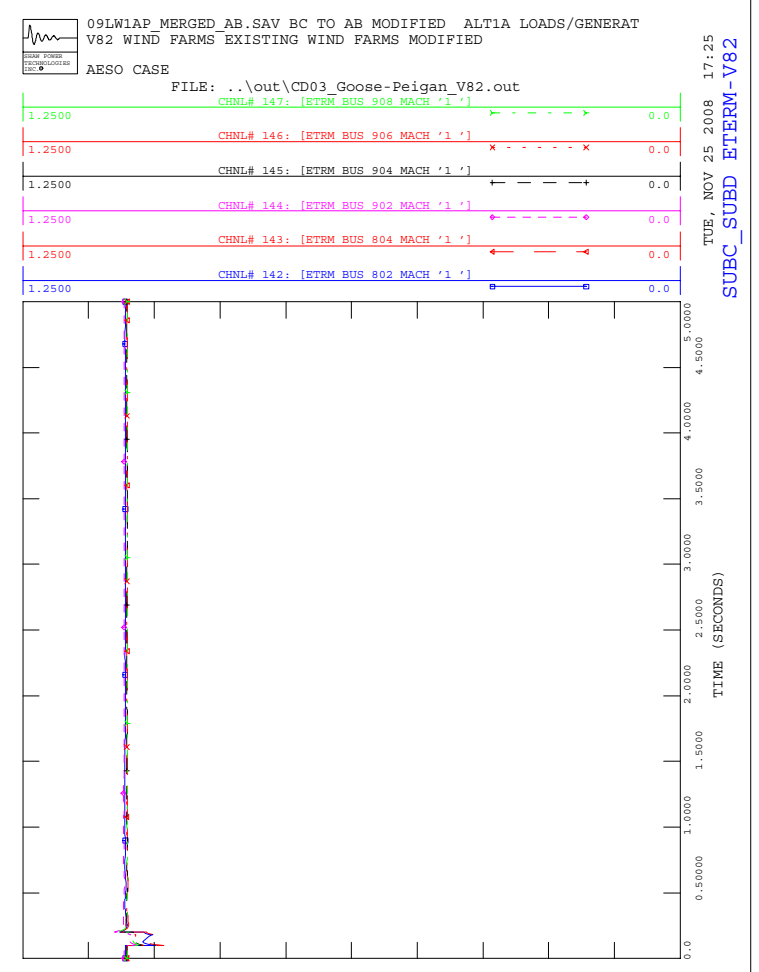
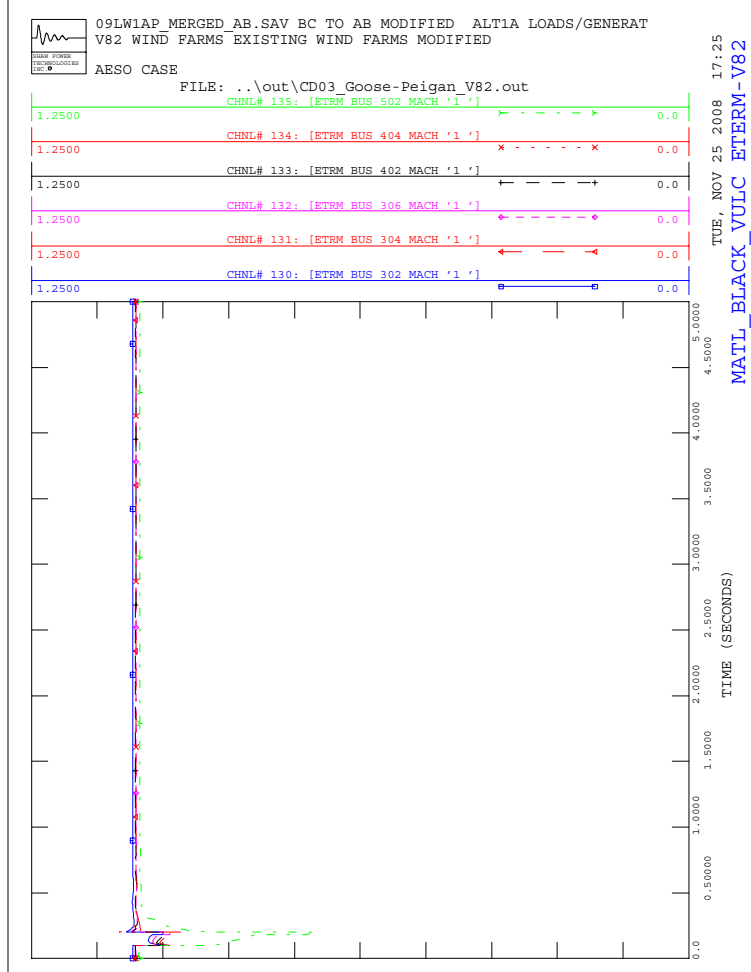
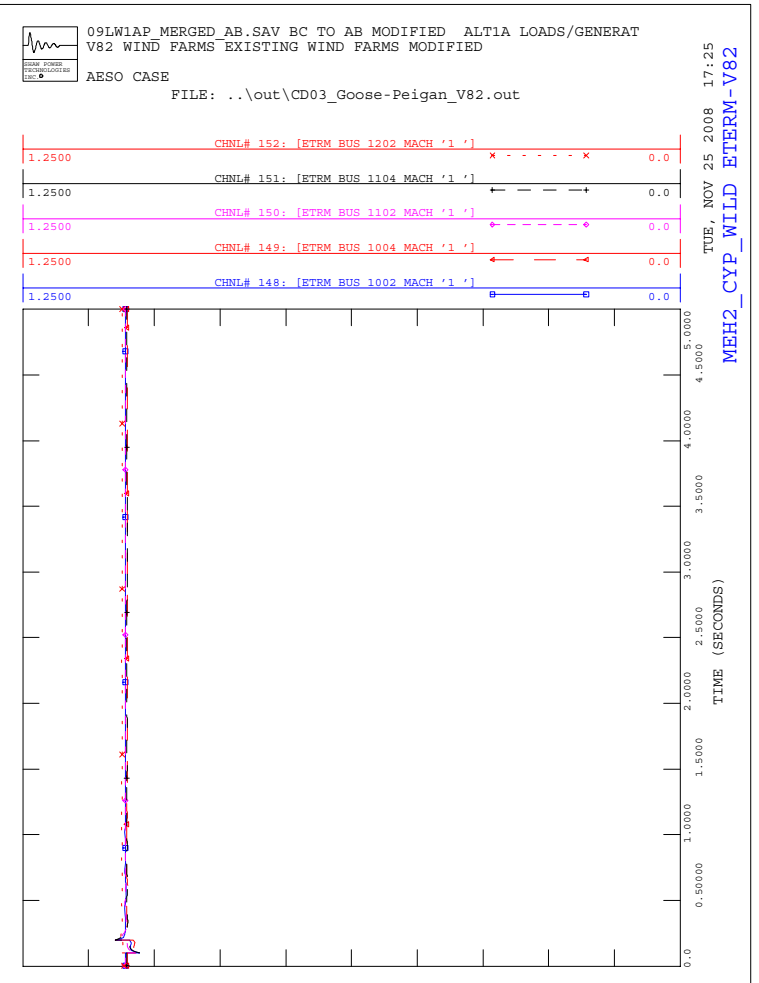
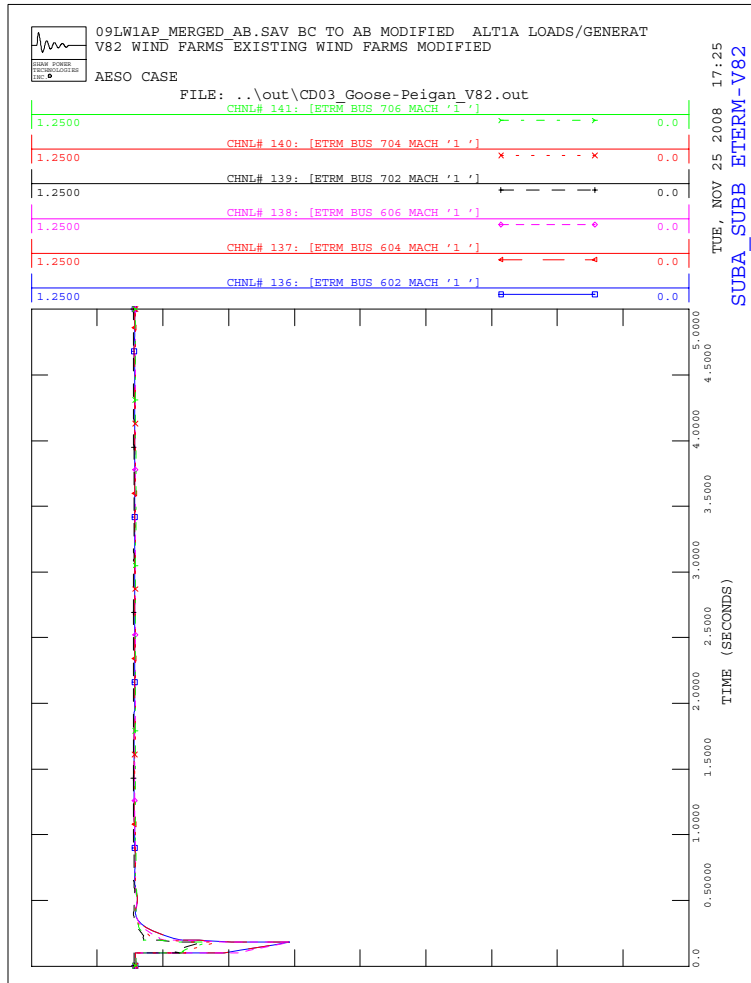


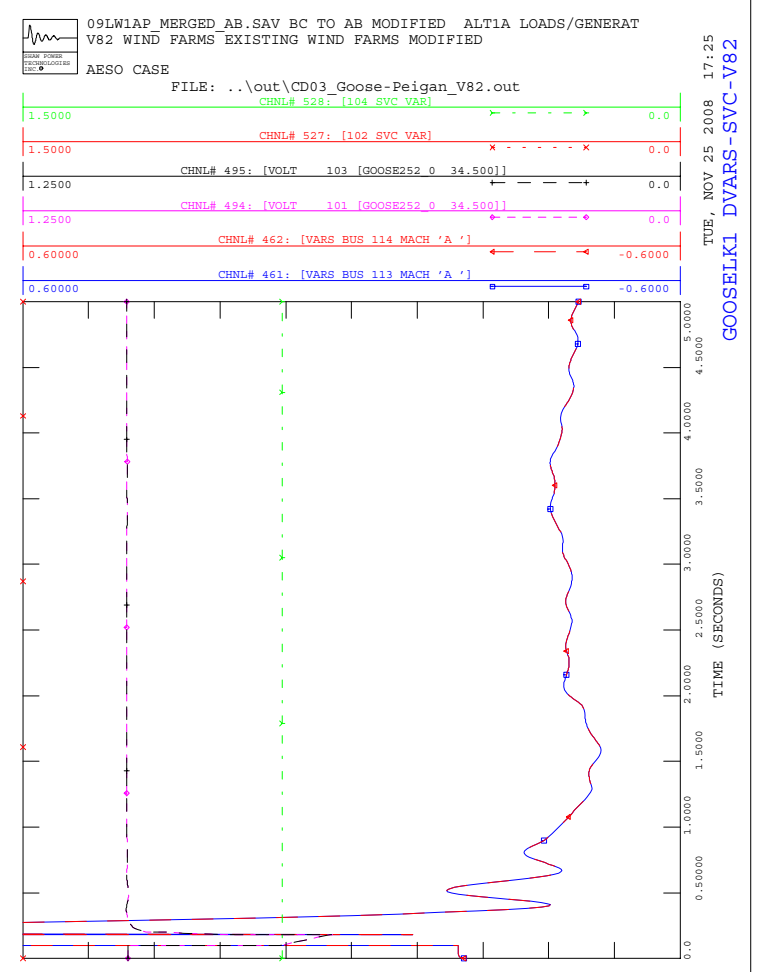
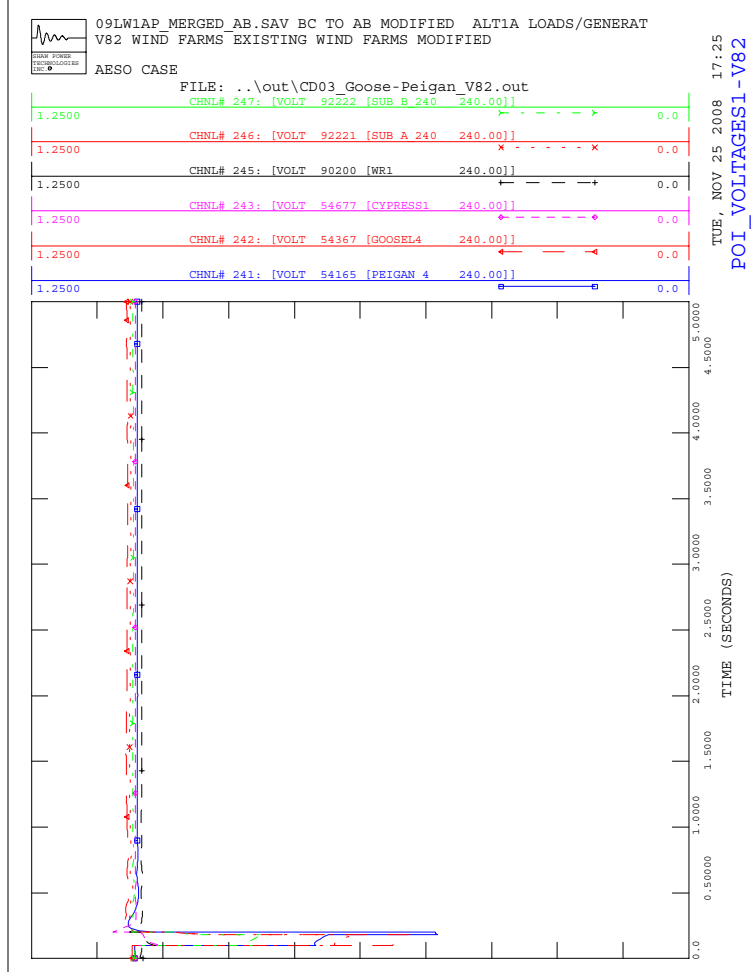
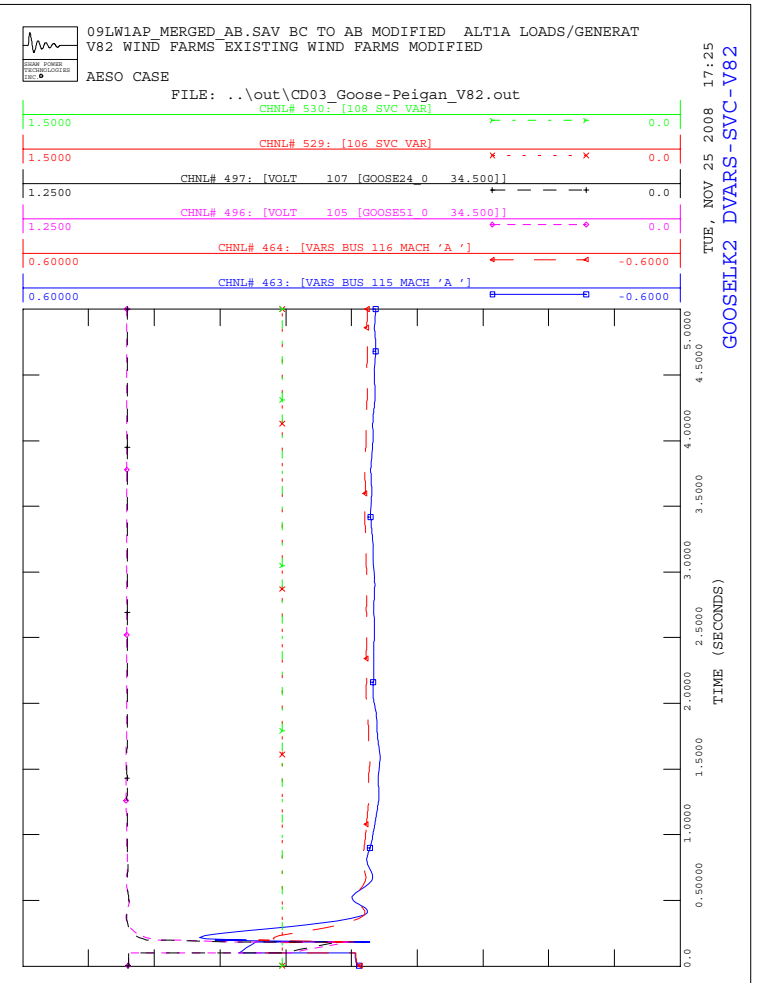
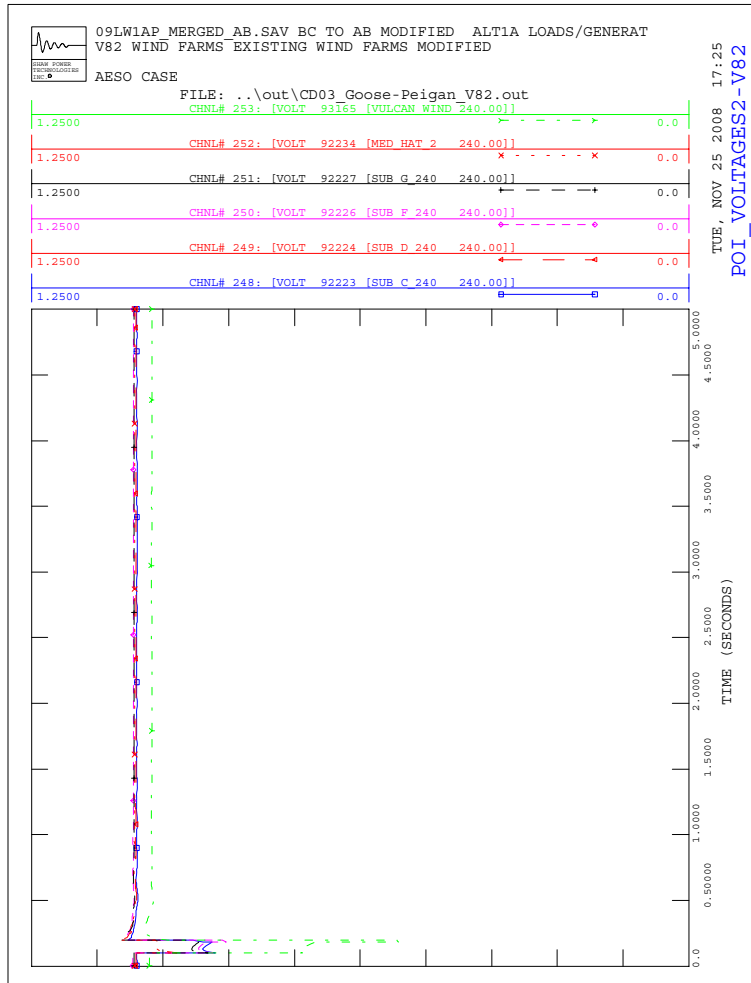
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

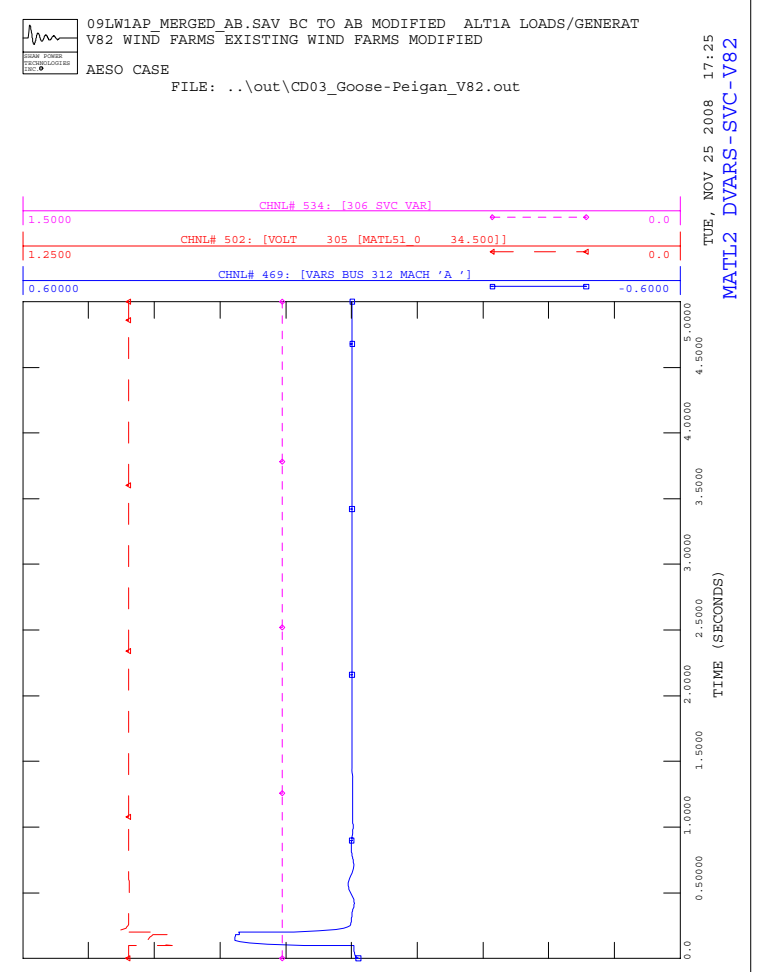
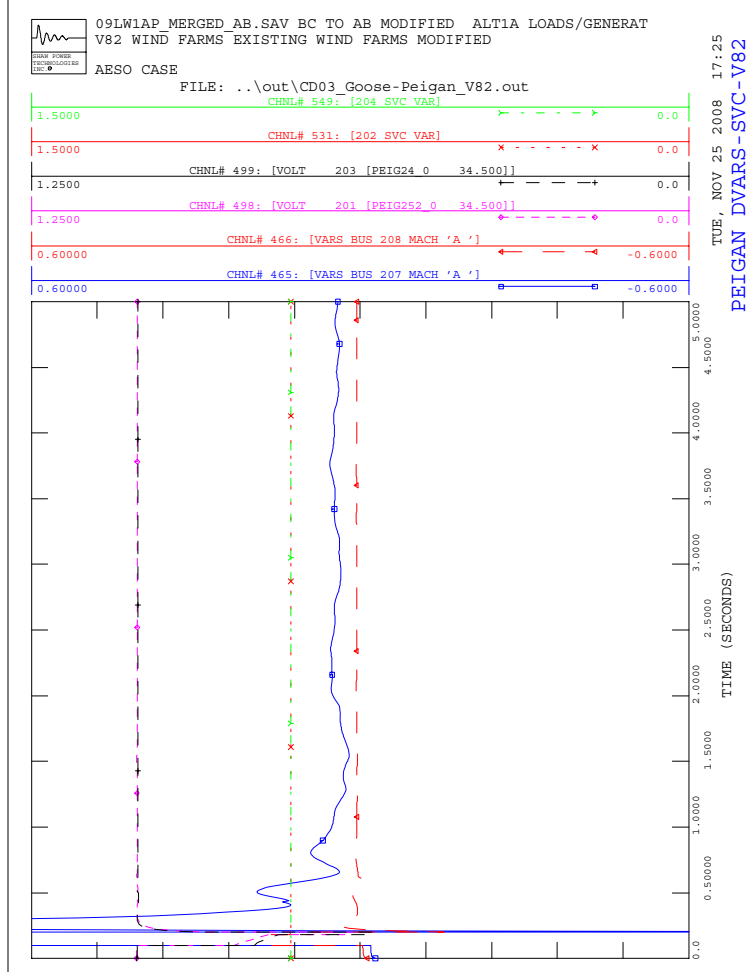
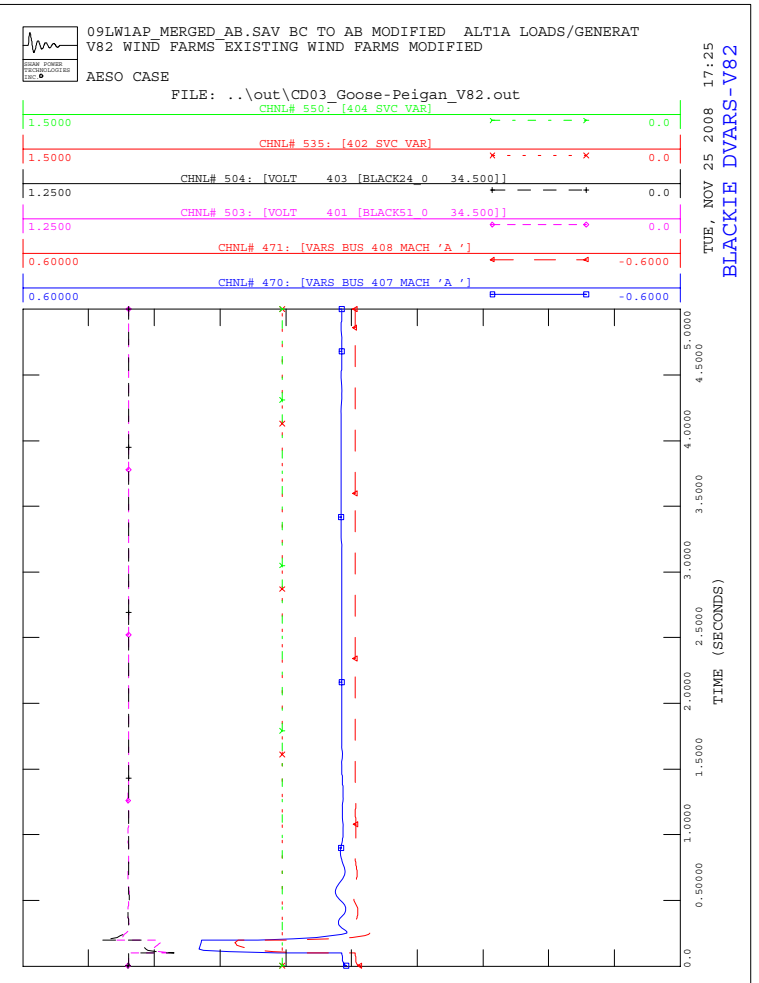
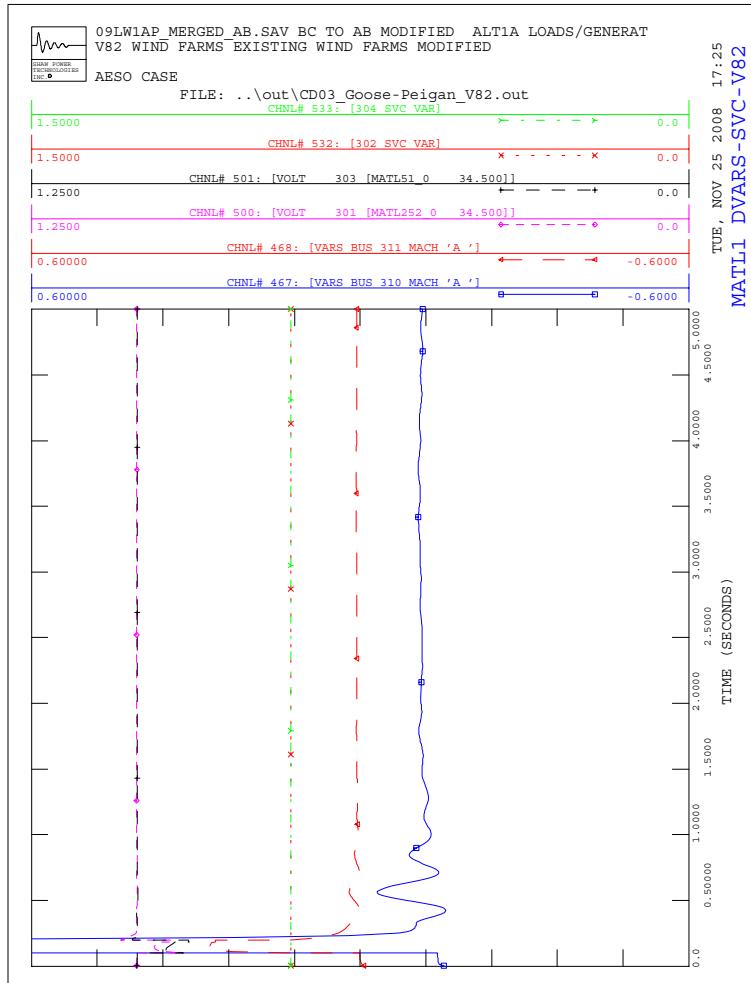
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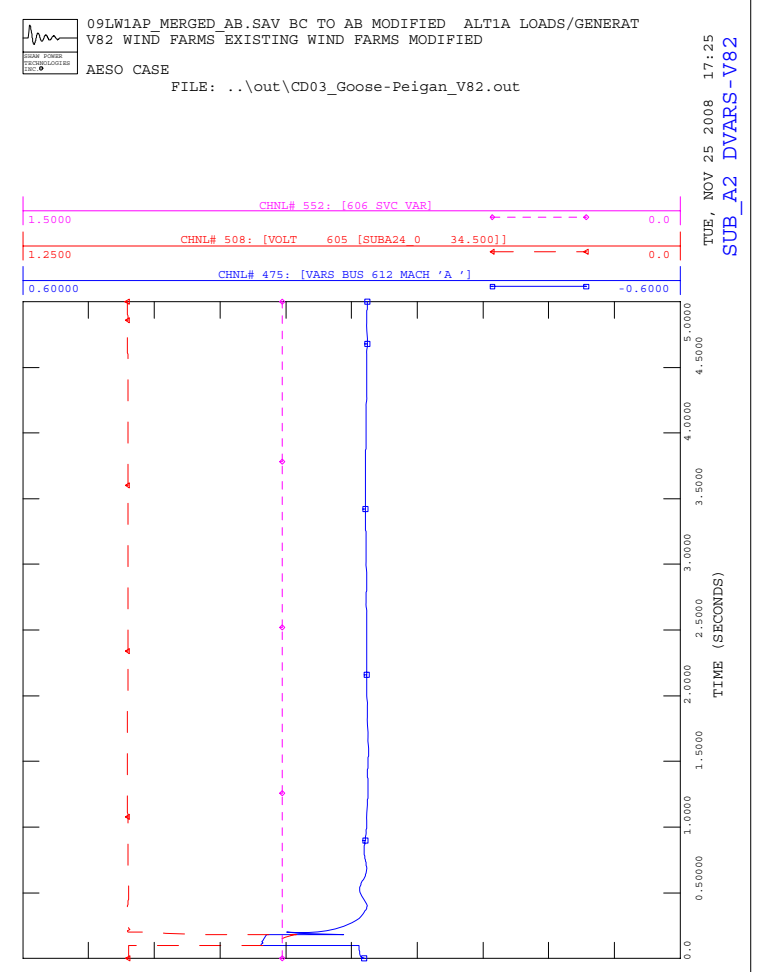
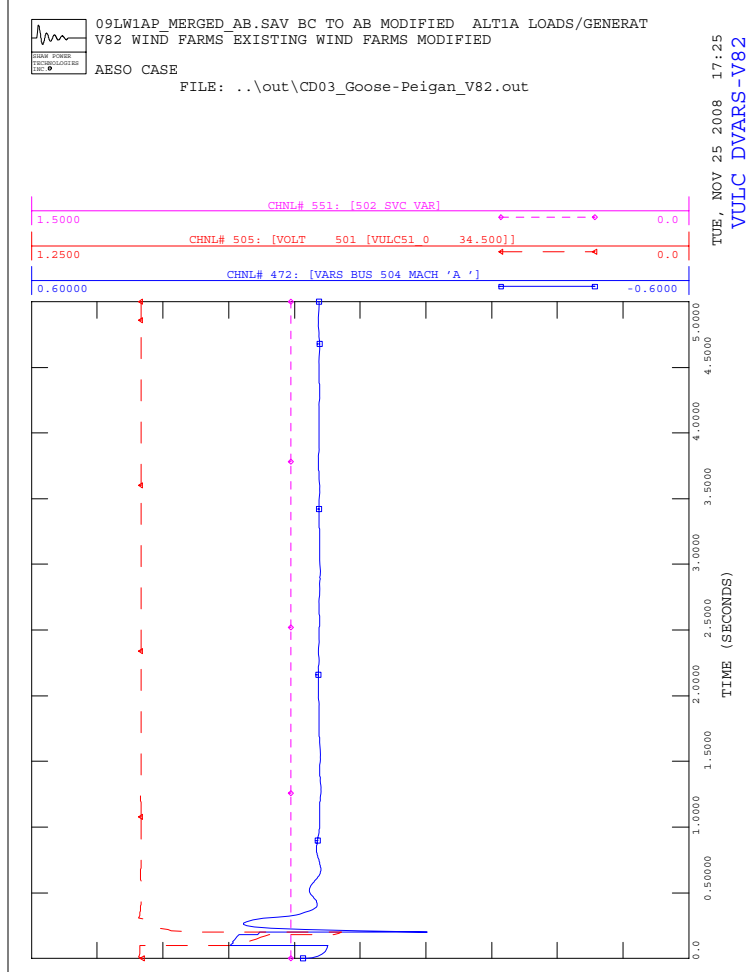
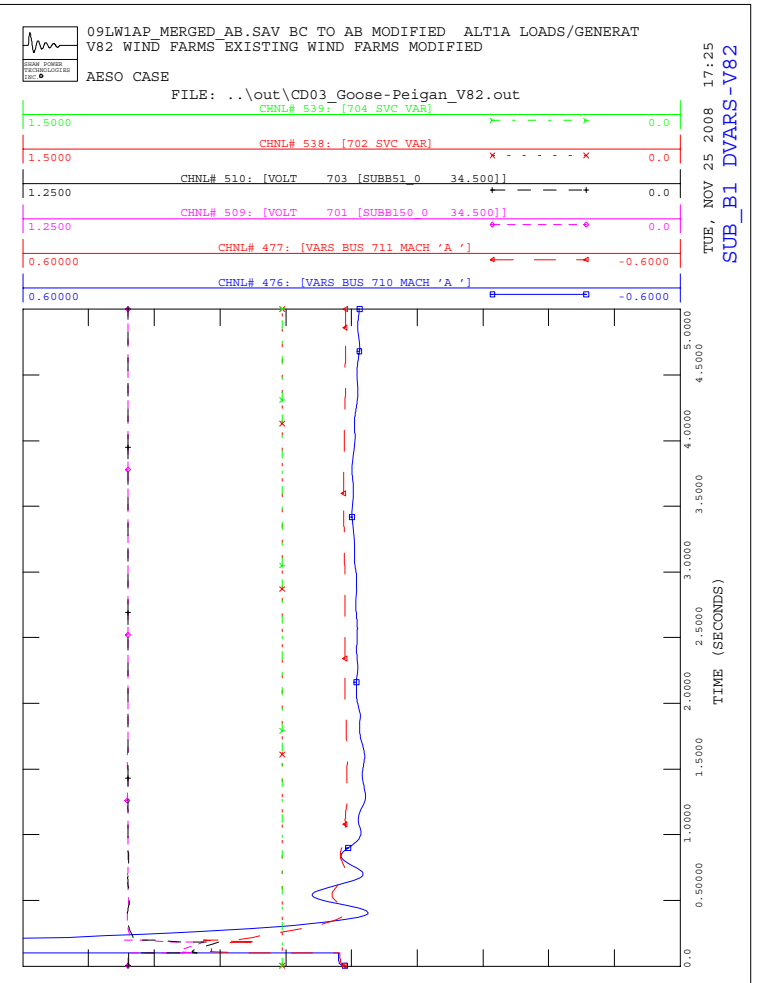
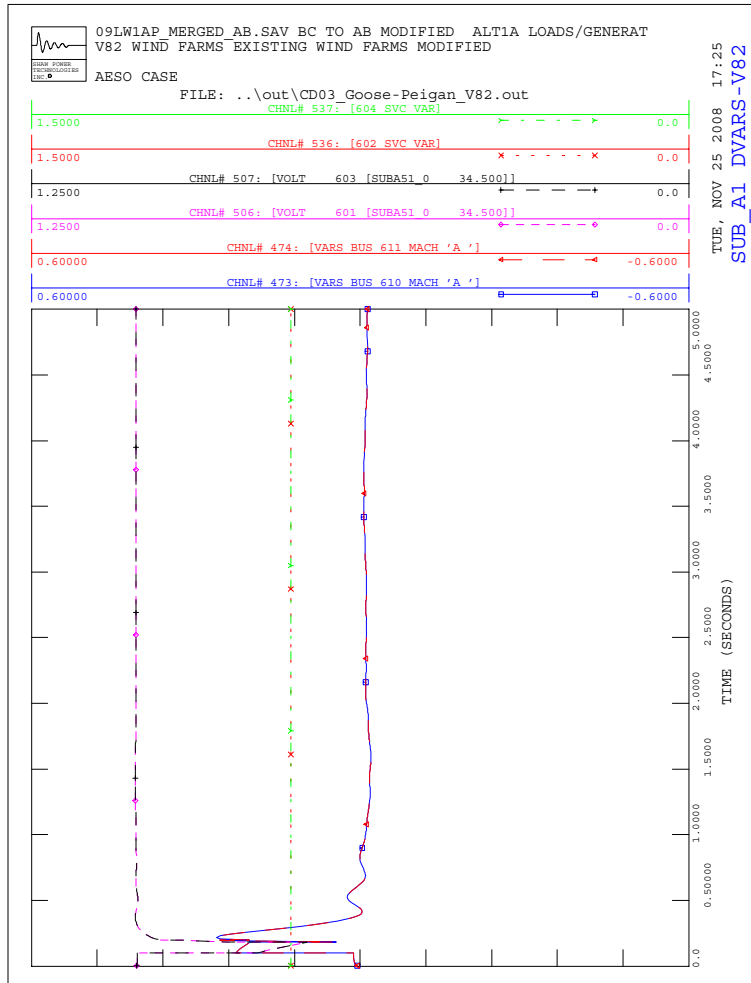


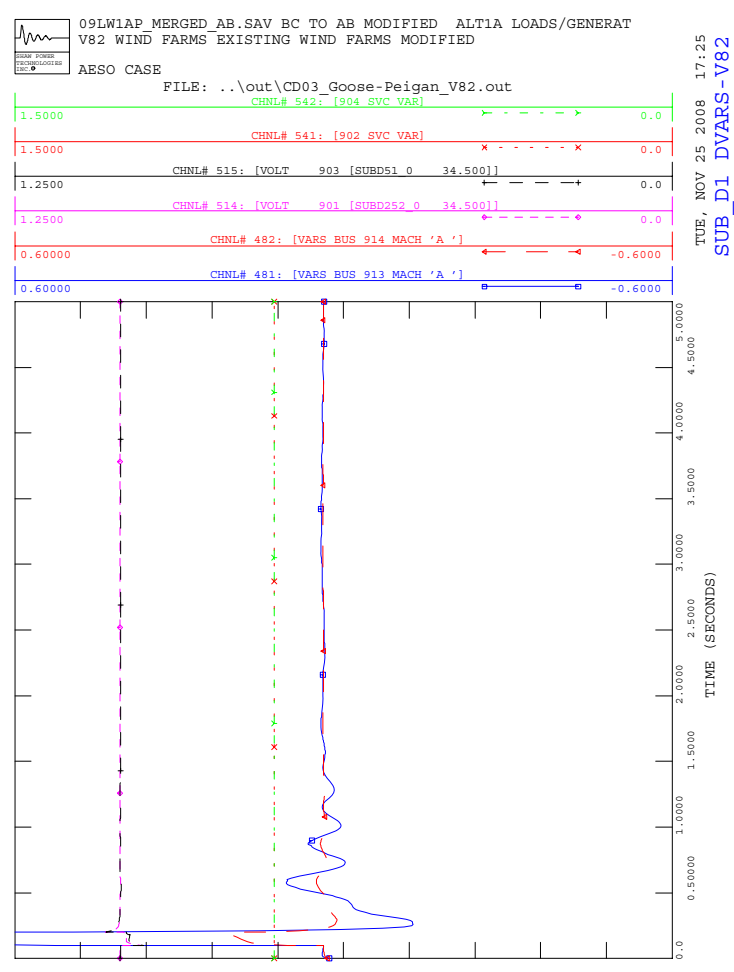
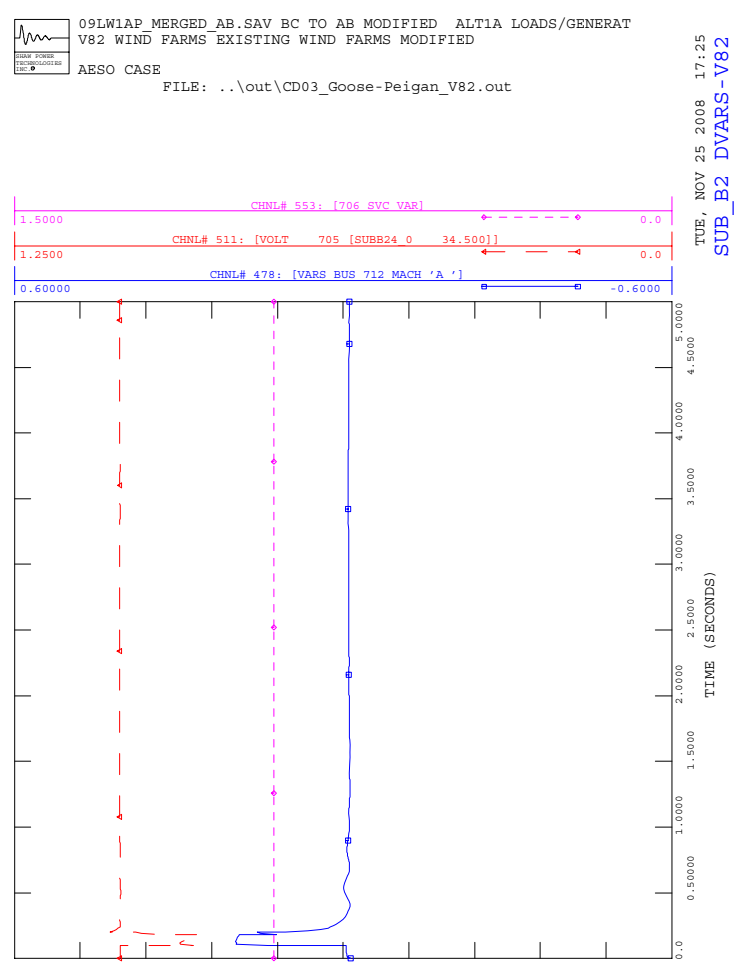
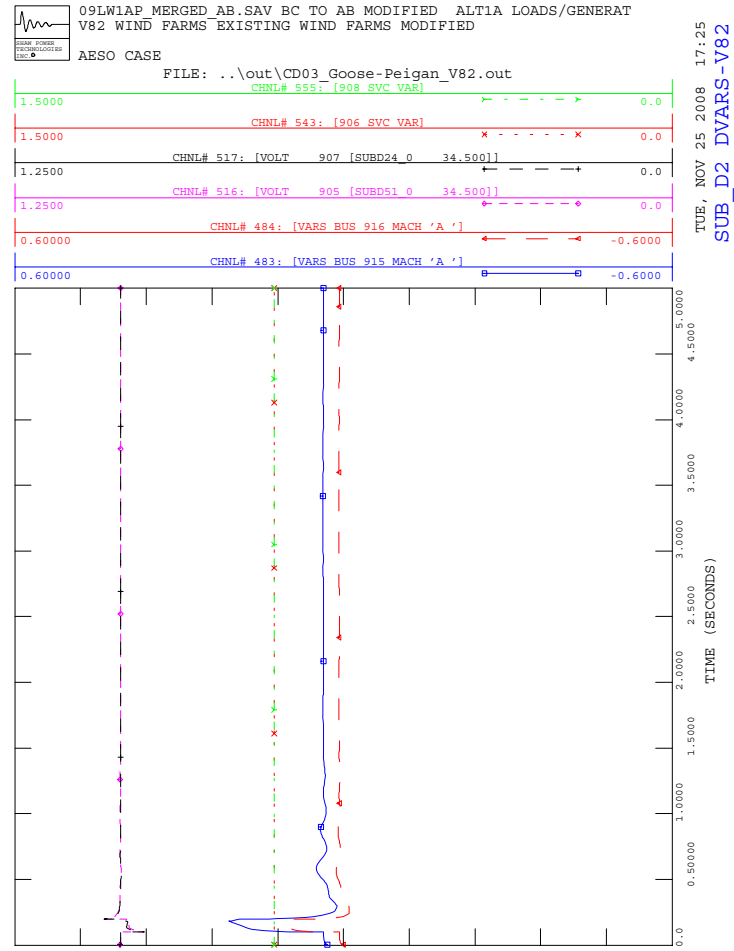
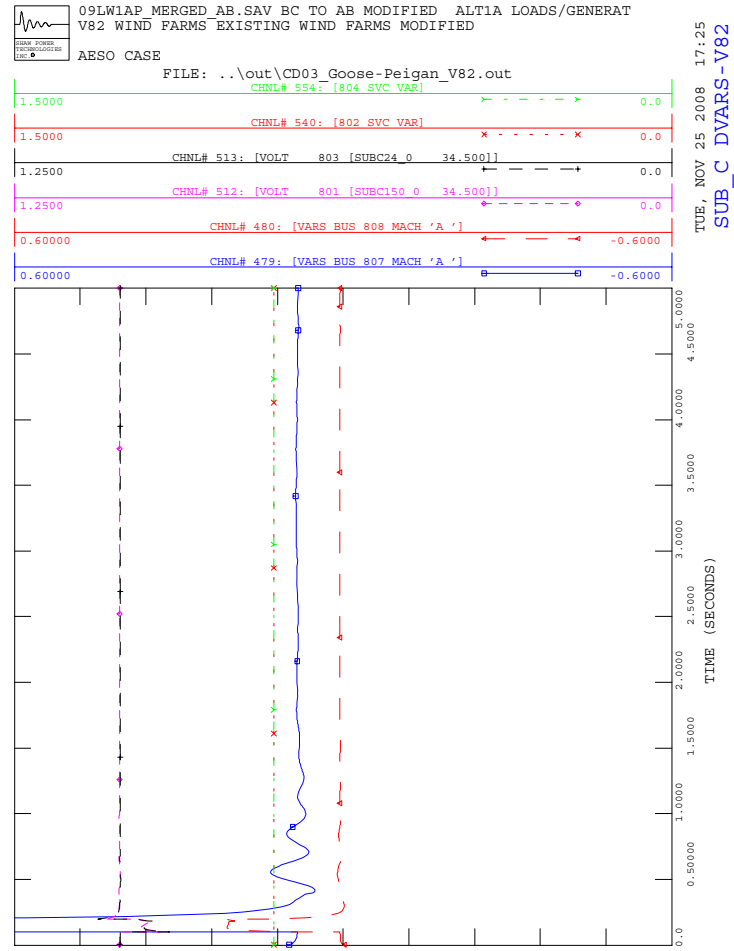


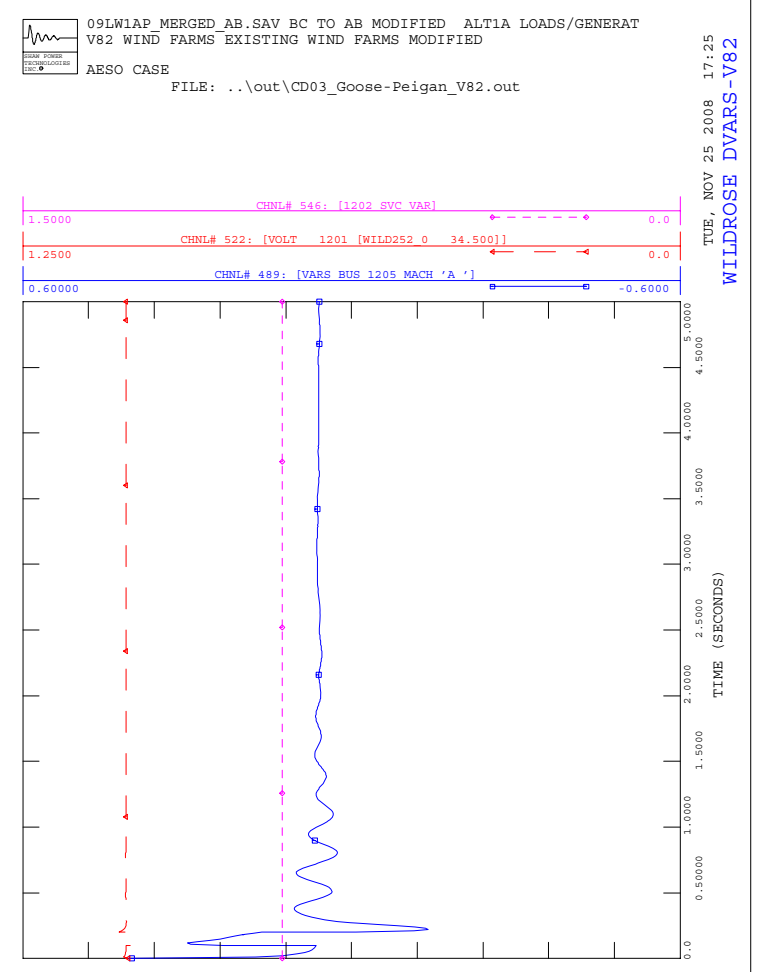
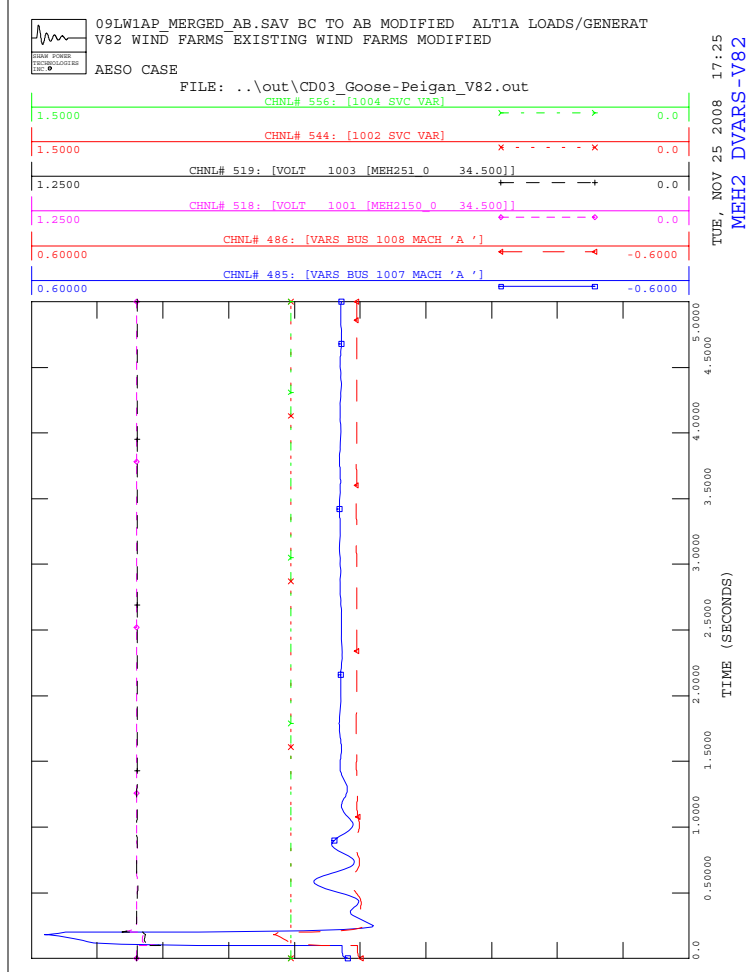
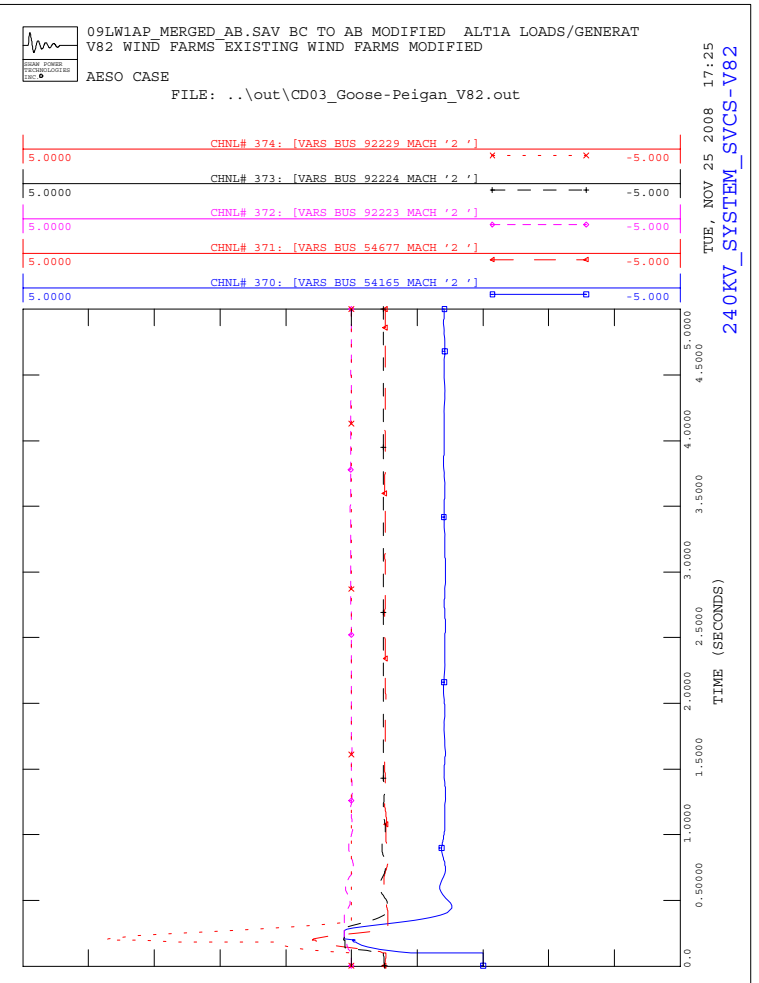
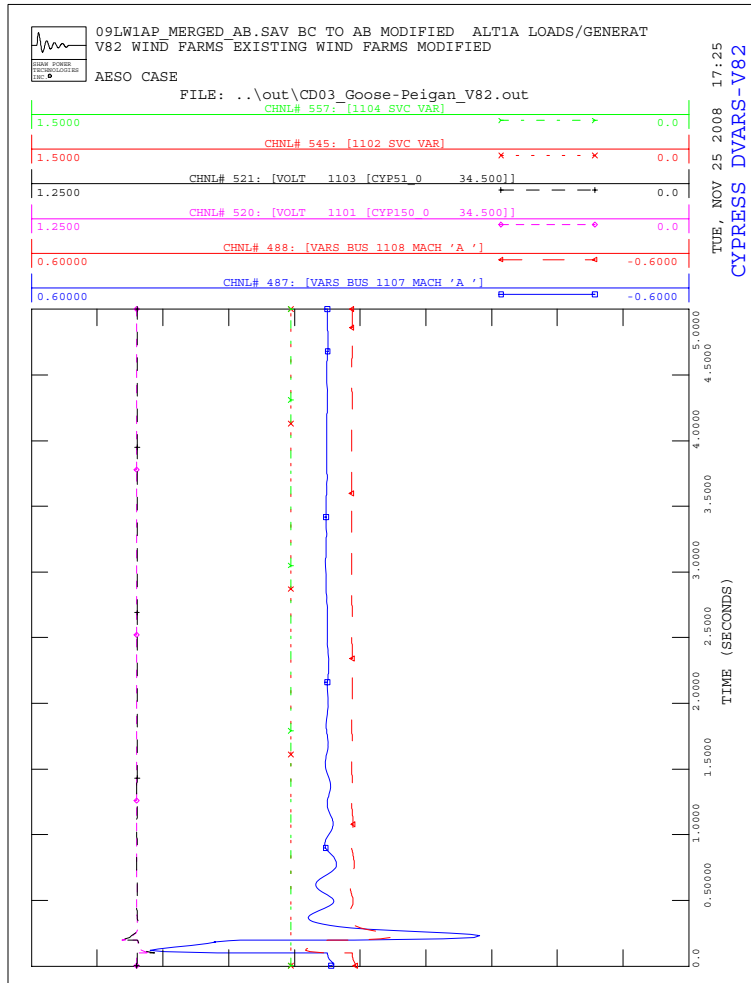












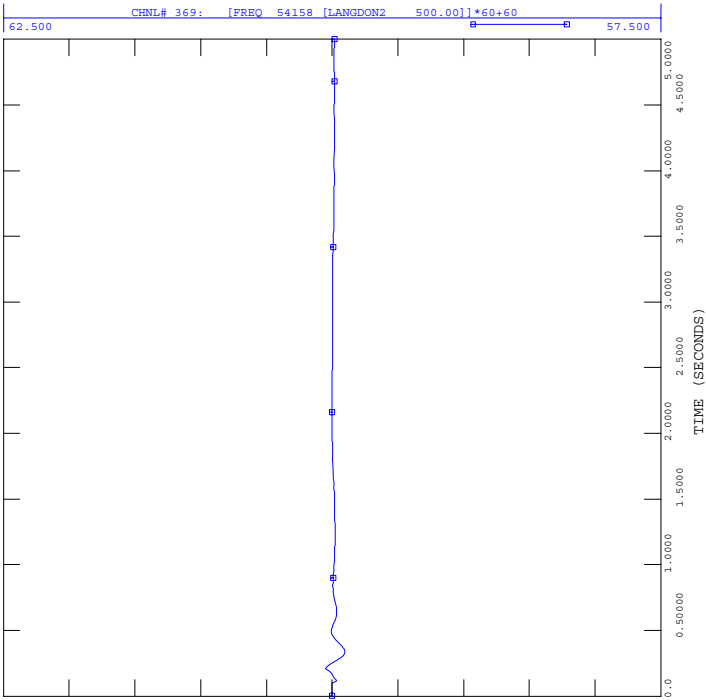


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD03_Goose-Peigan_V82.out

TUE, NOV 25 2008 17:25
LANGDON_FRQ-V82

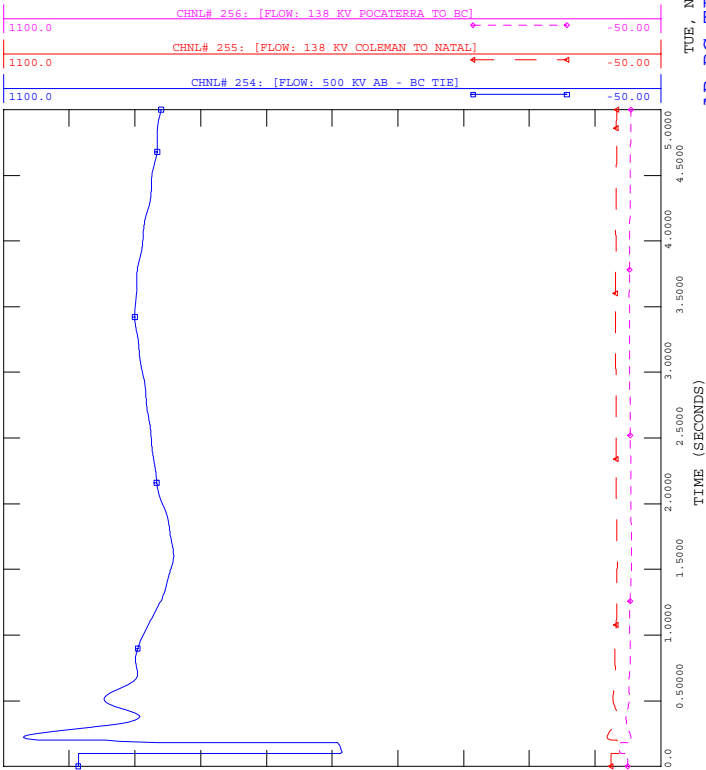


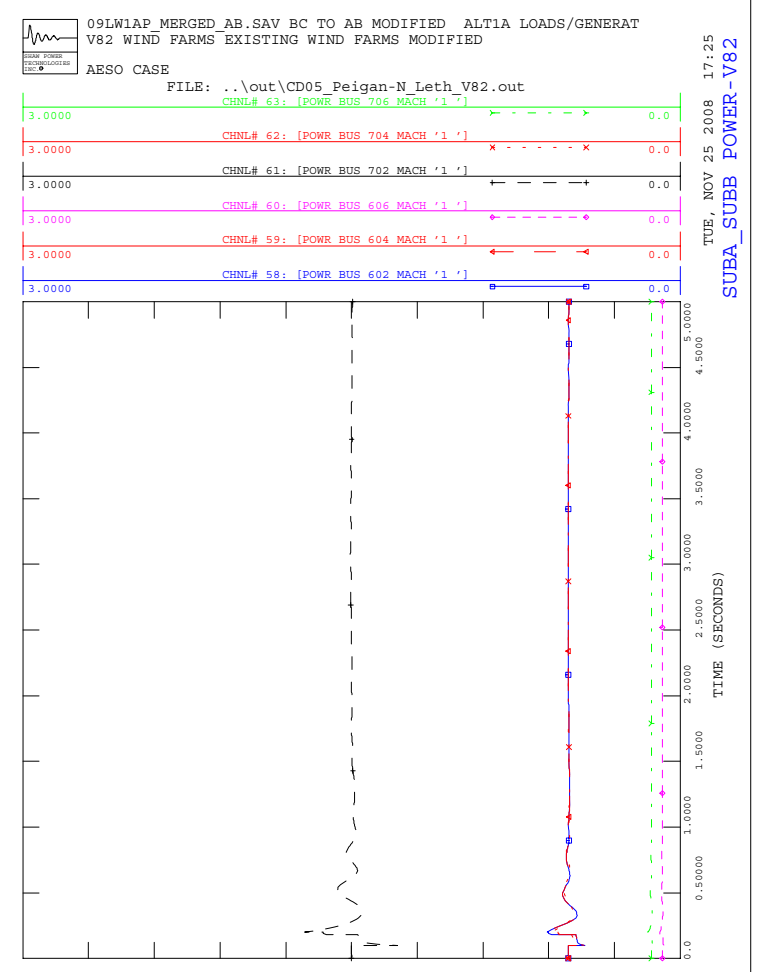
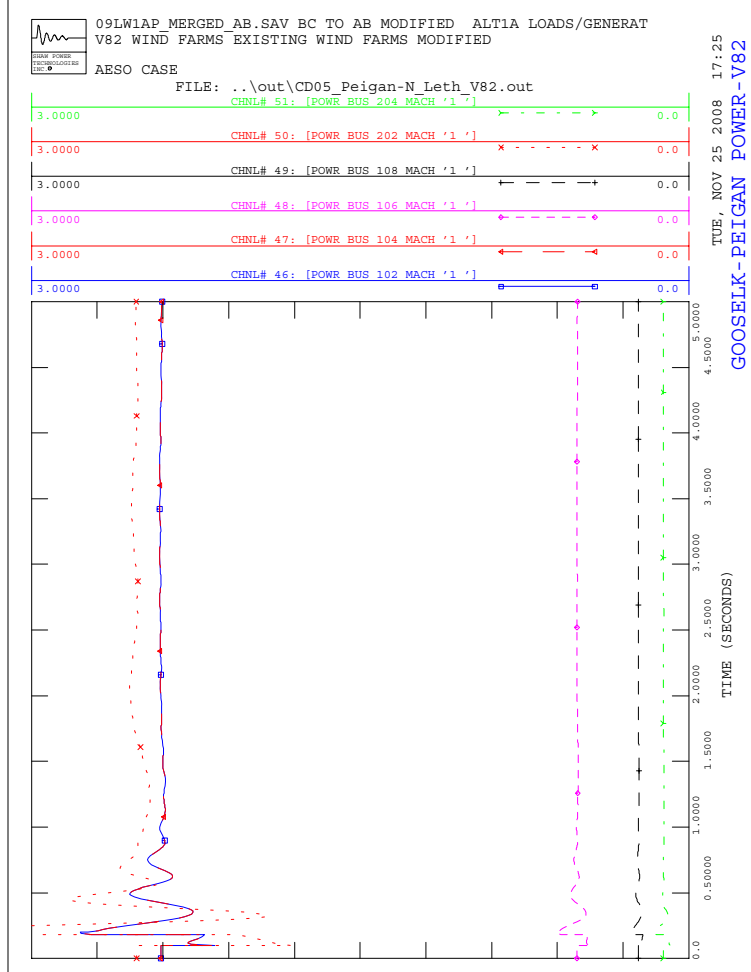
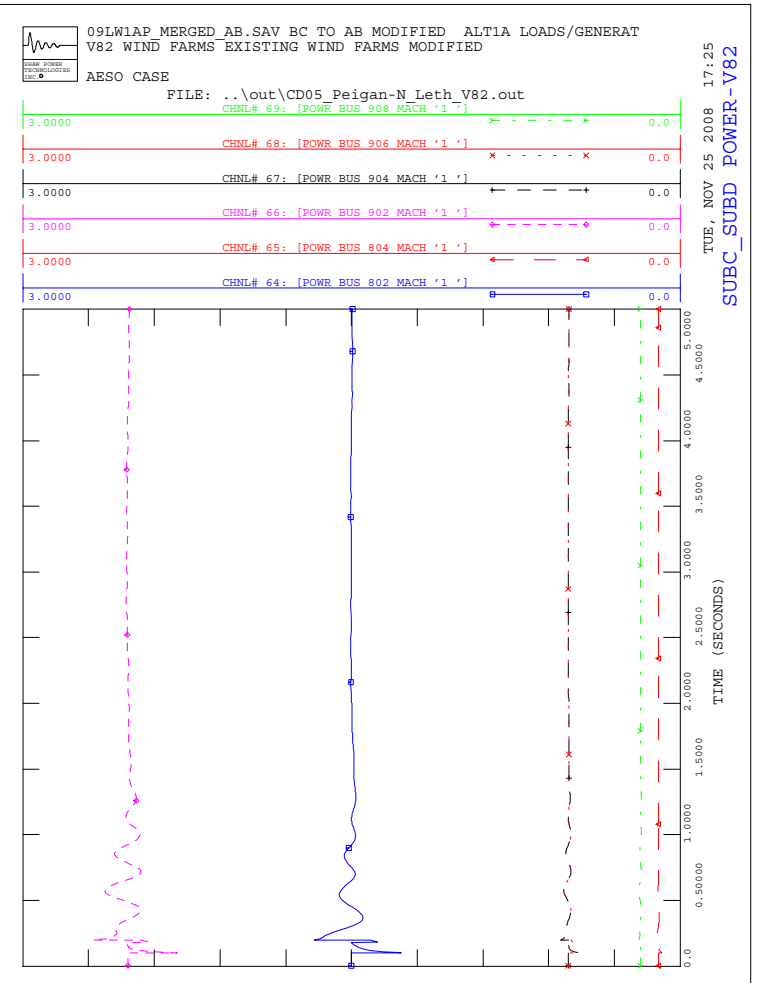
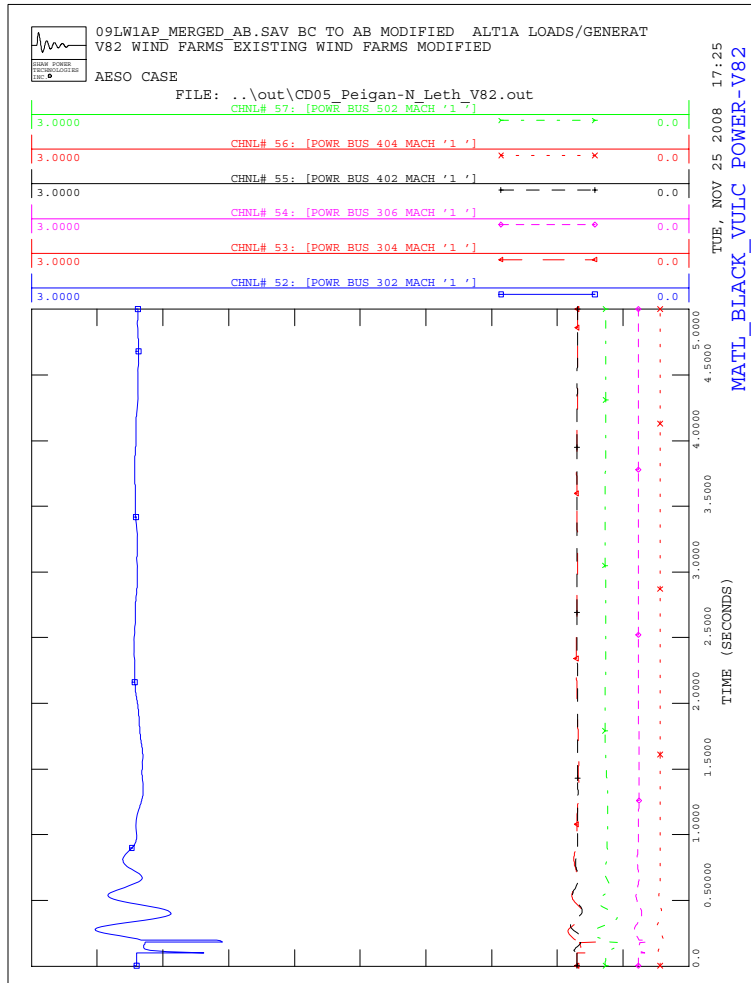
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

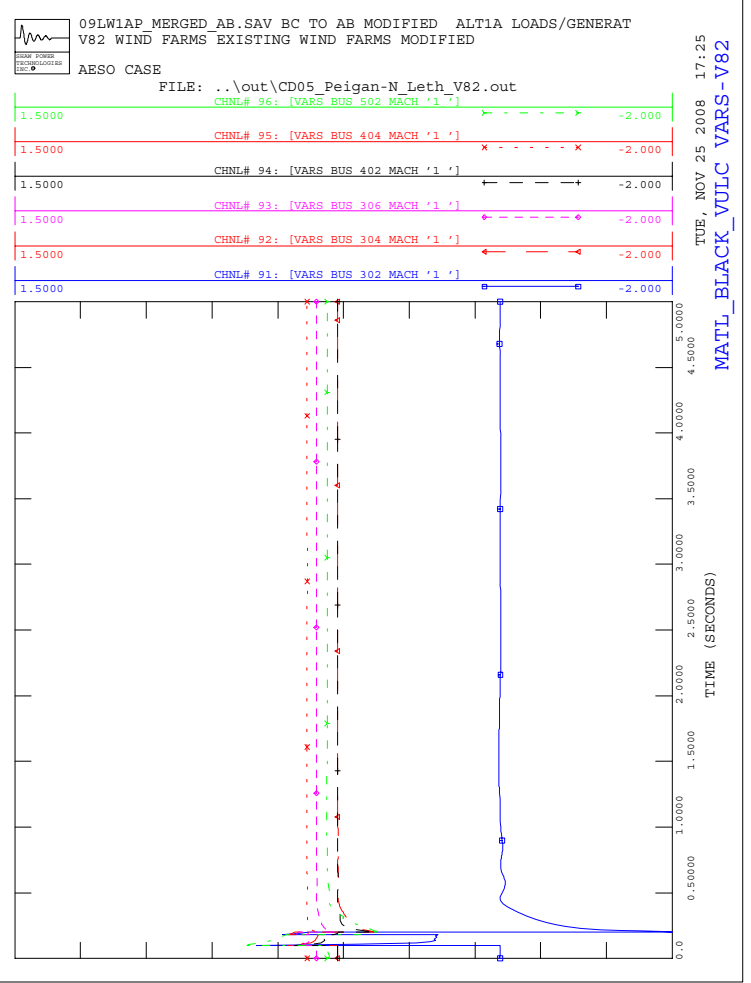
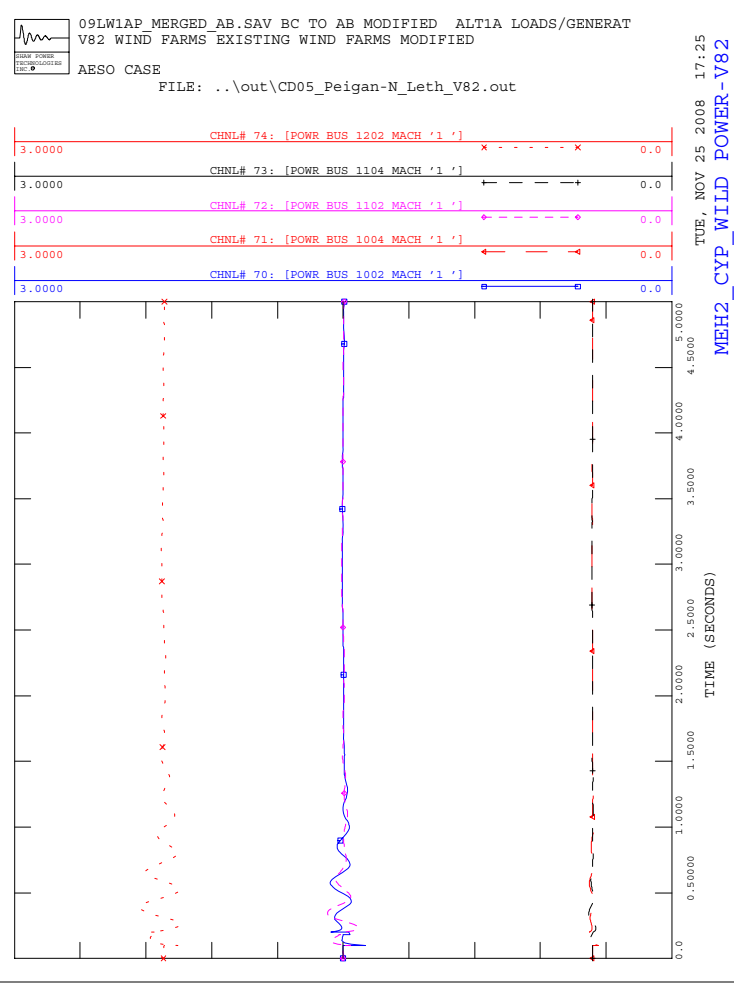
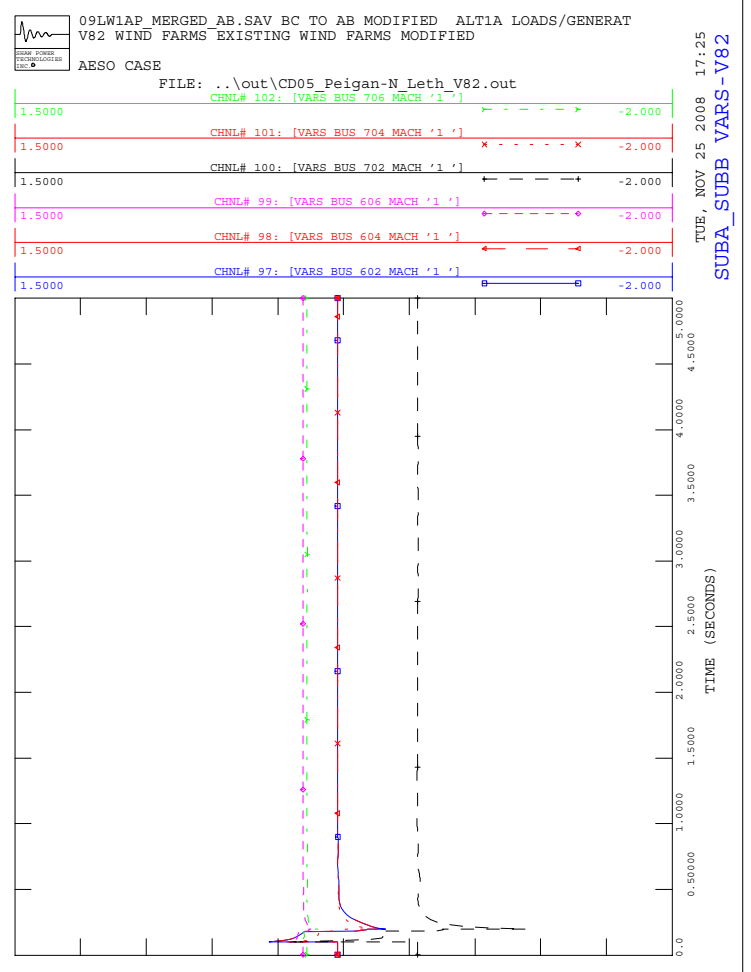
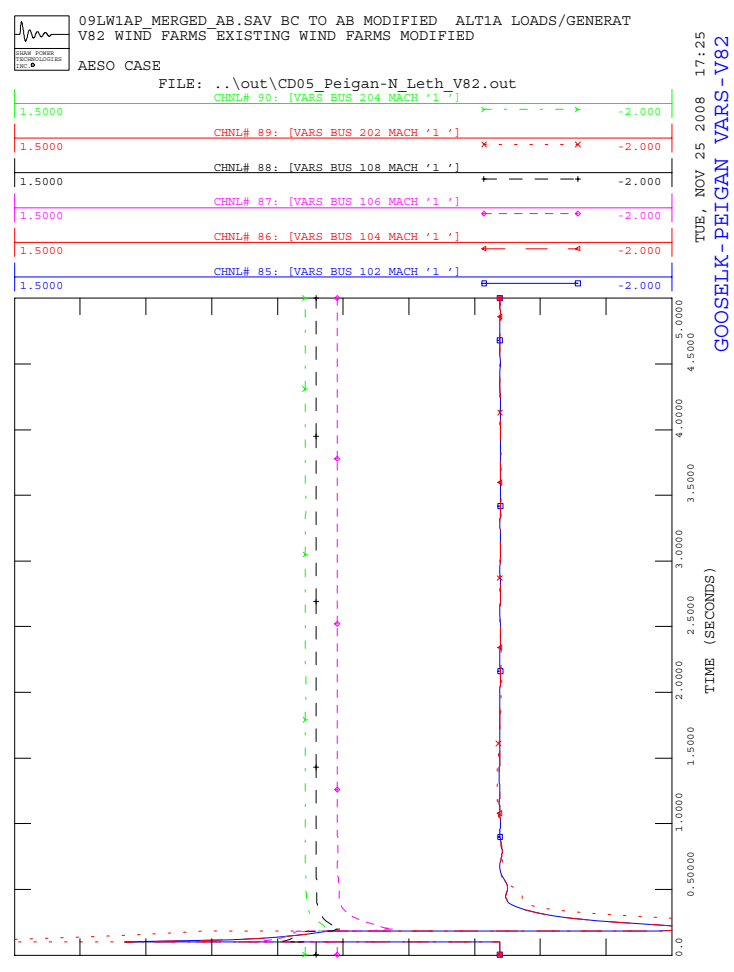
ABSO CASE

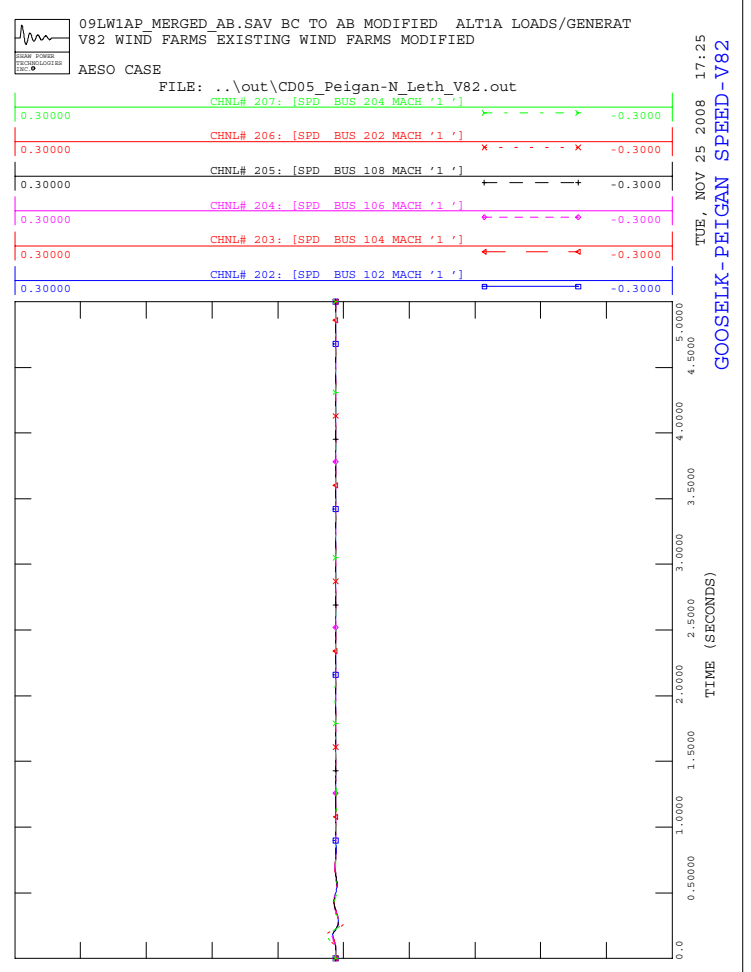
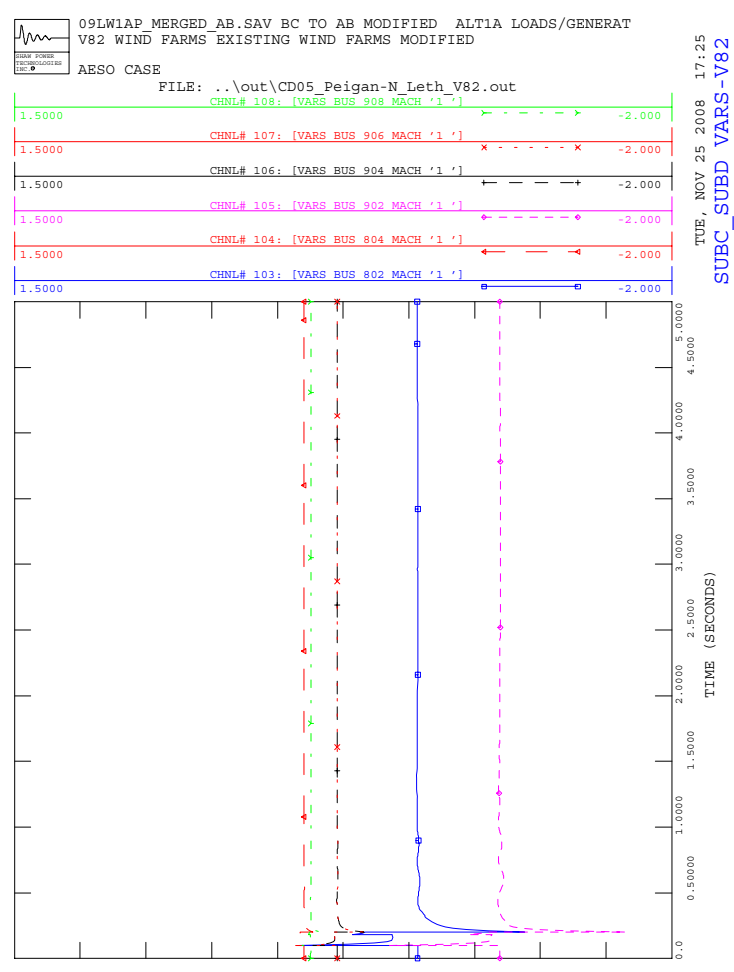
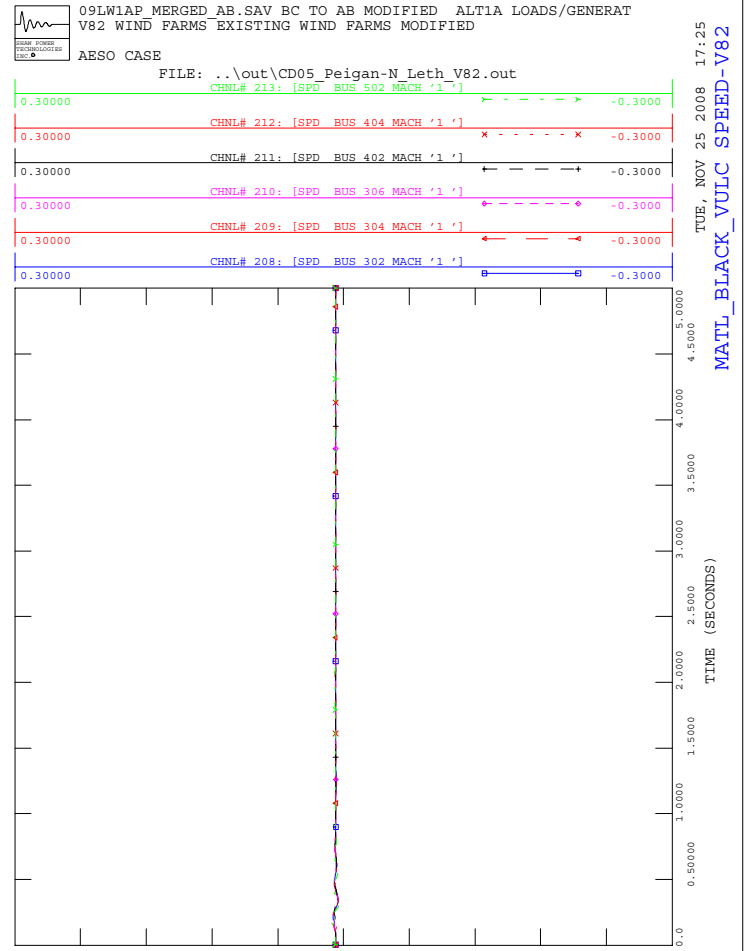
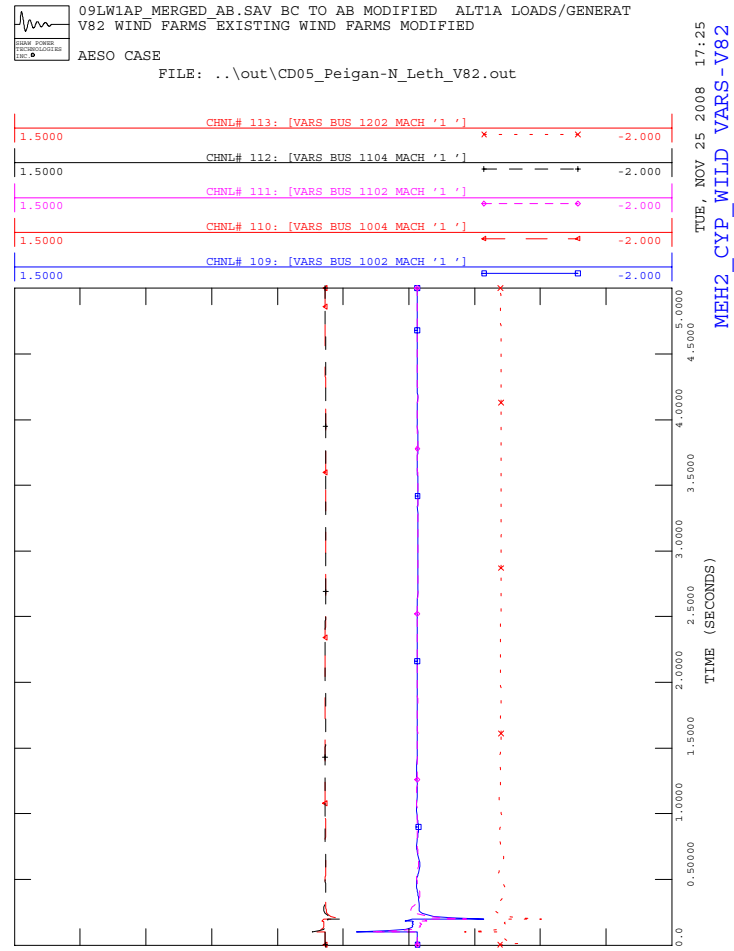
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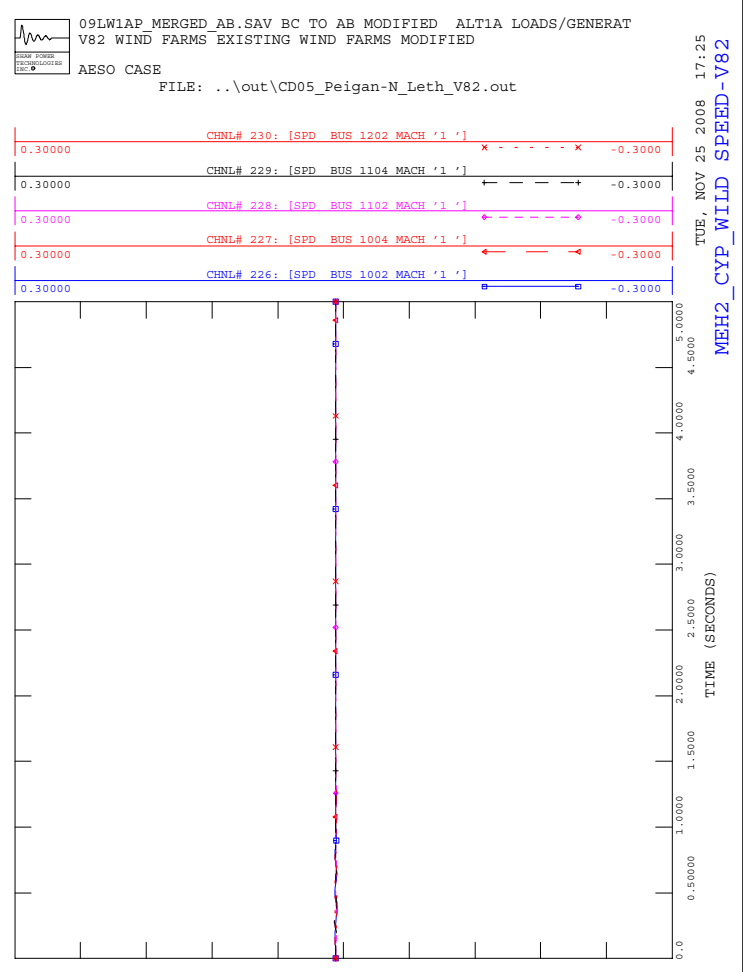
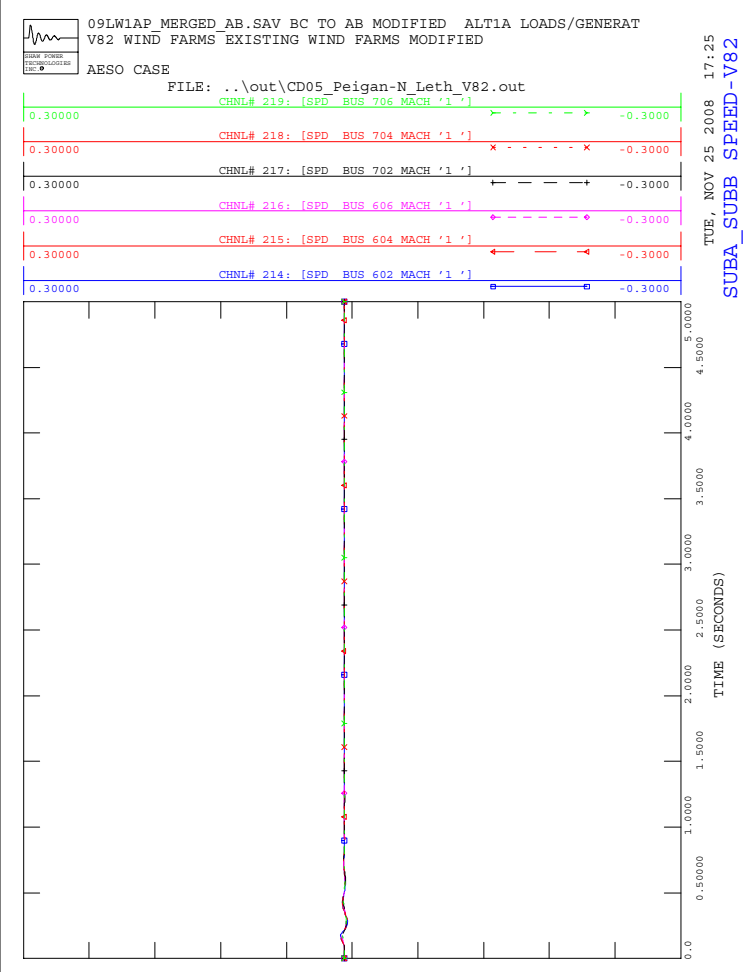
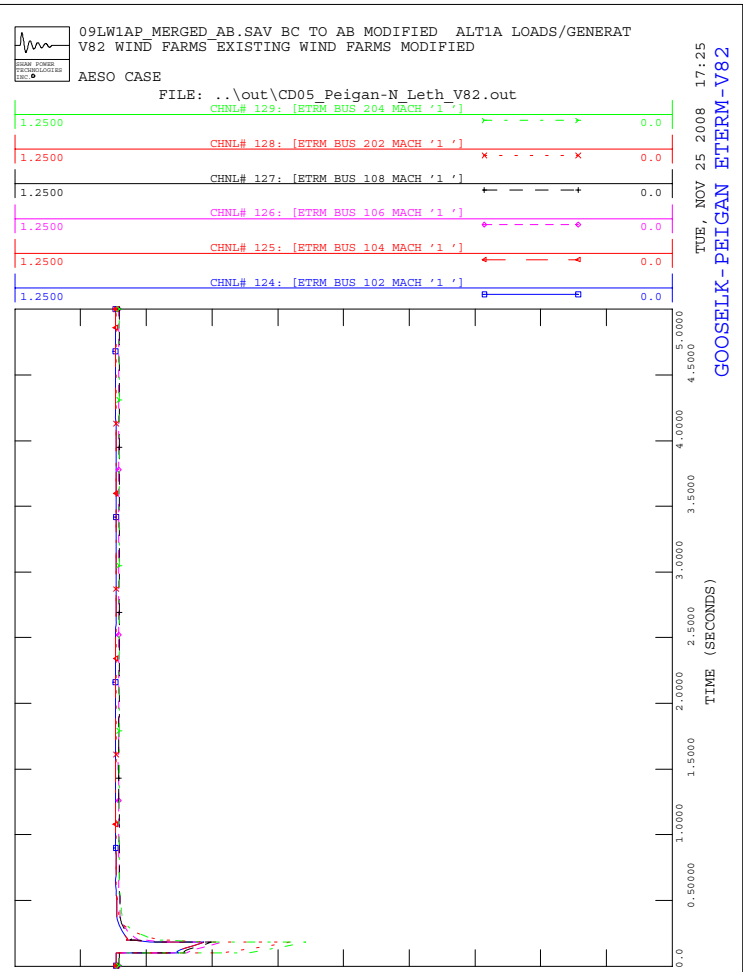
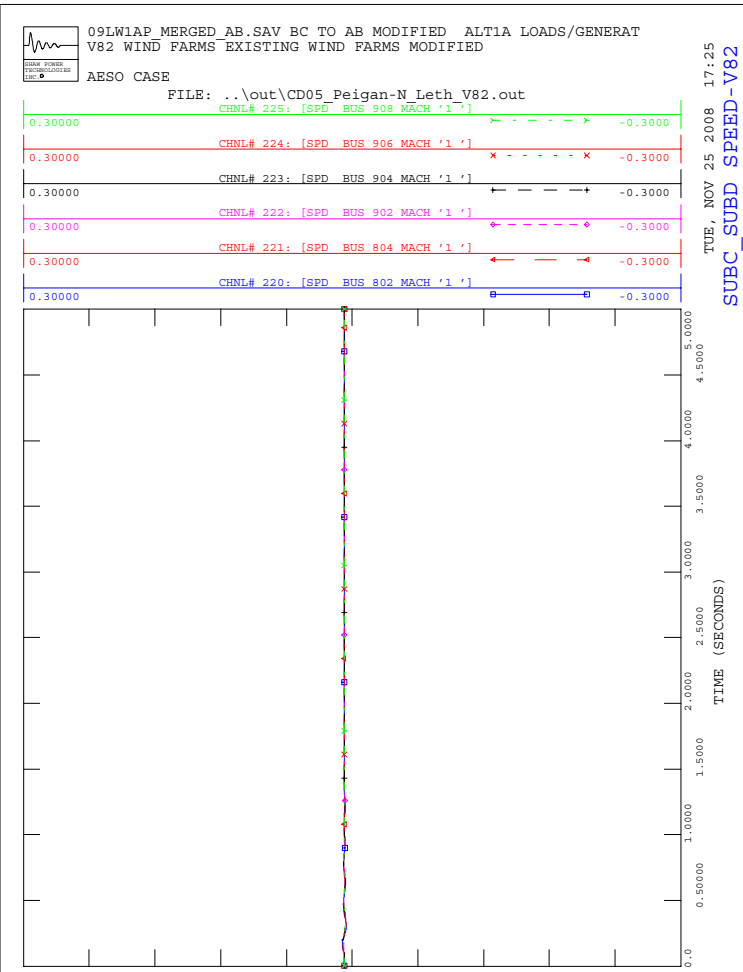
TUE, NOV 25 2008 17:25
AB_BC_TIE_FLOWS-V82

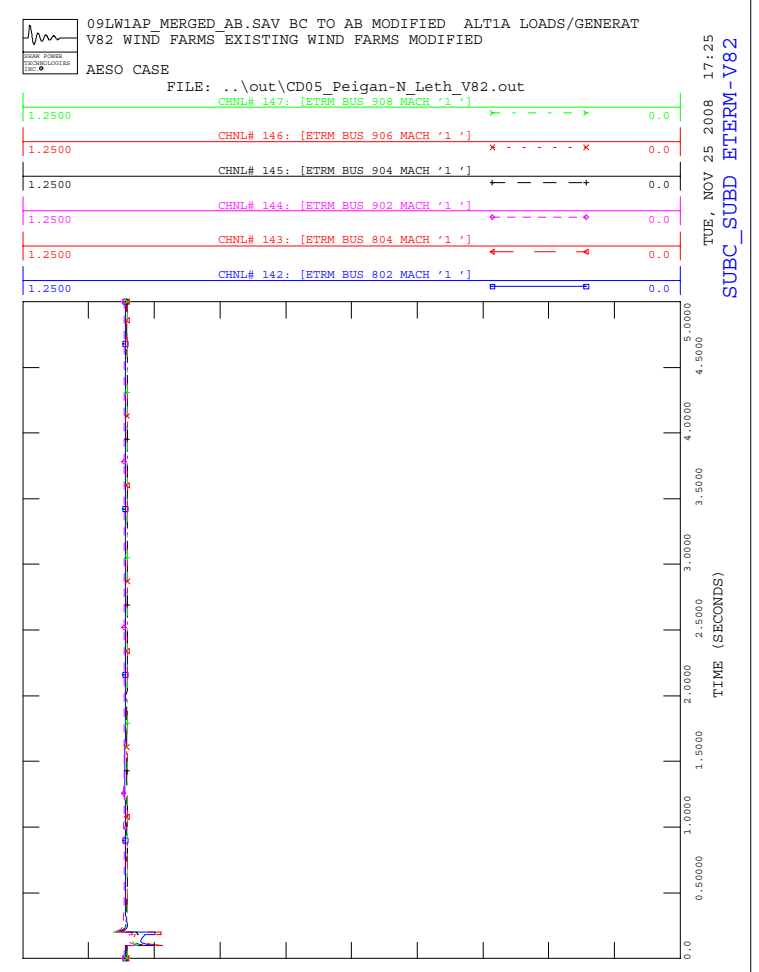
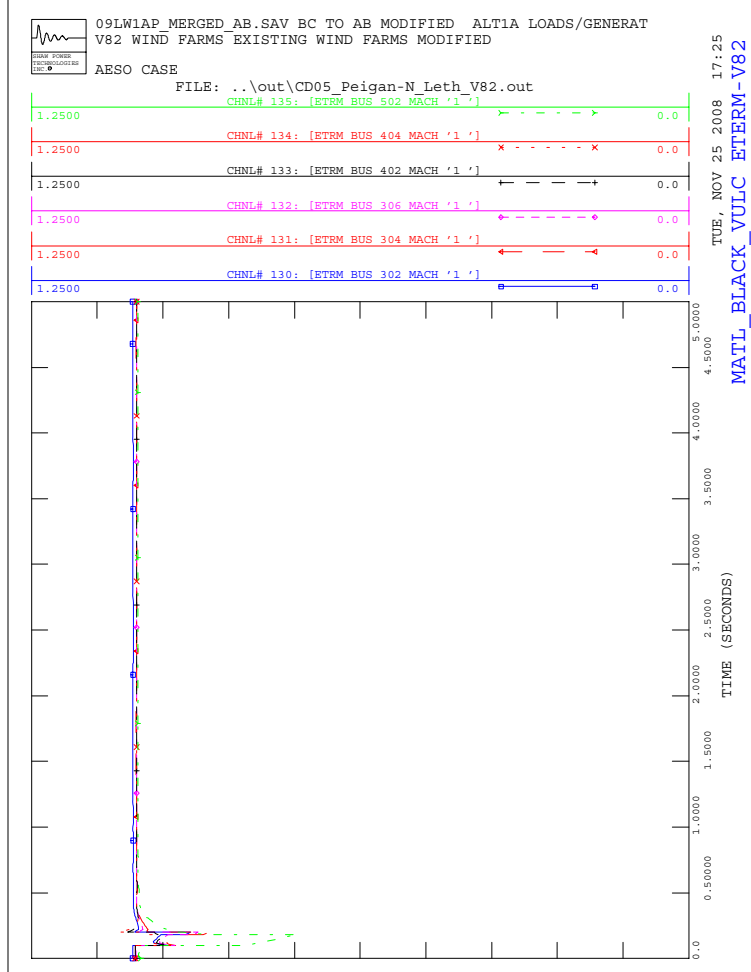
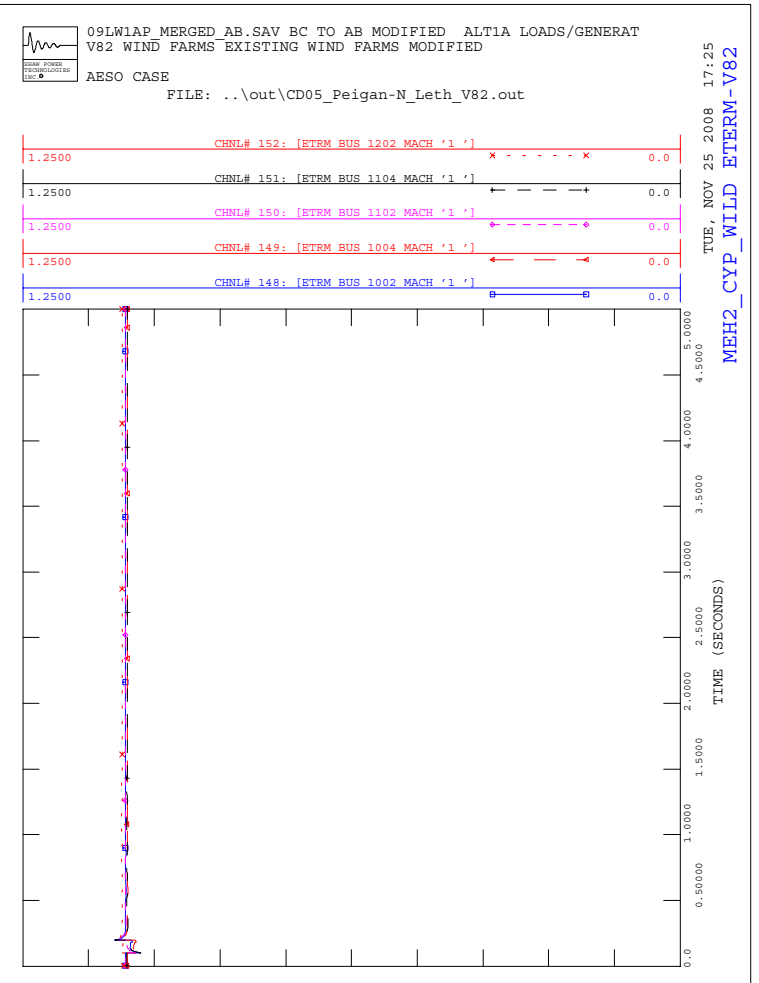
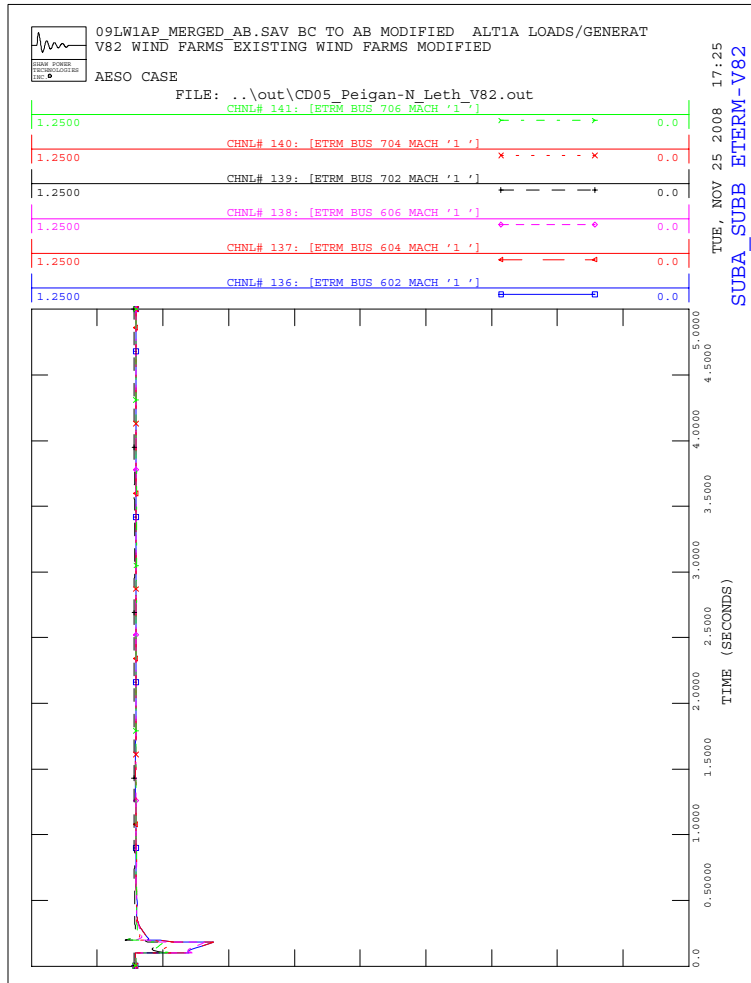


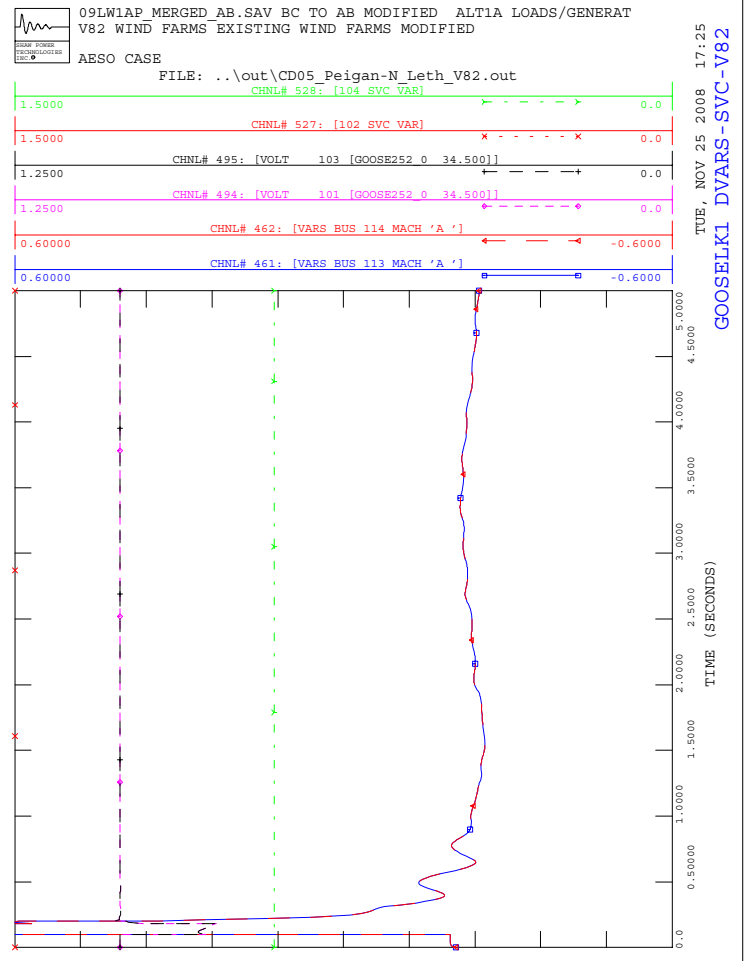
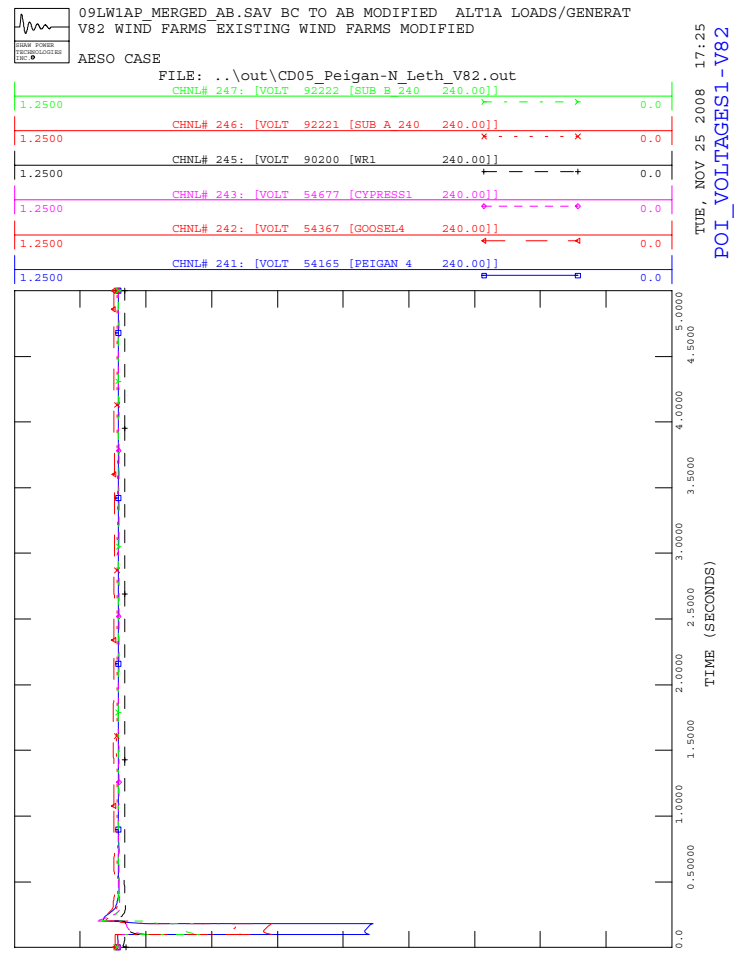
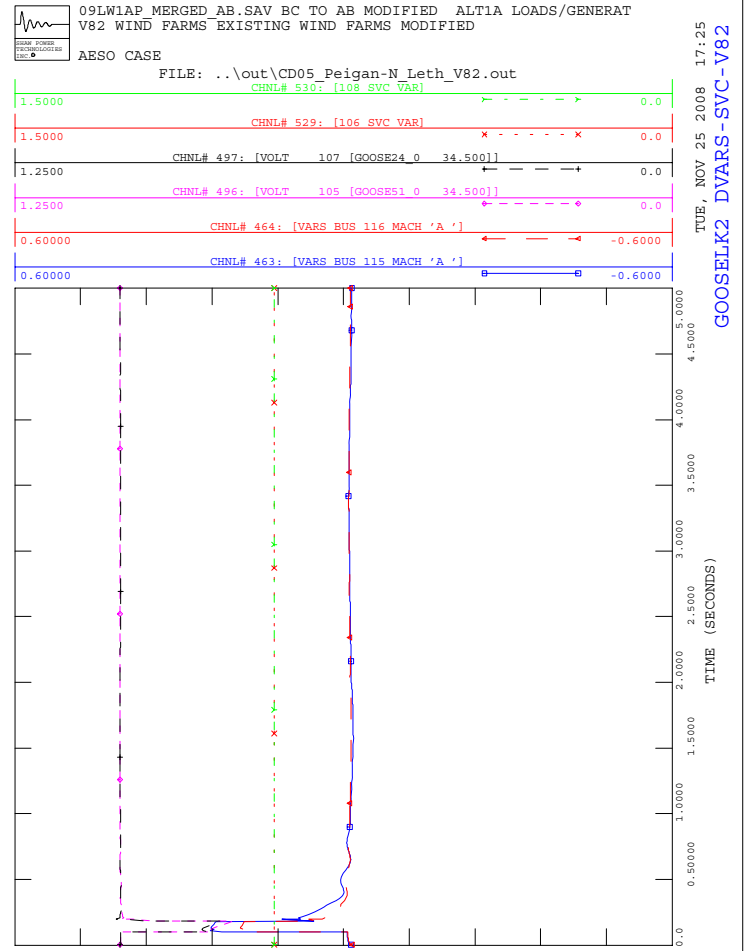
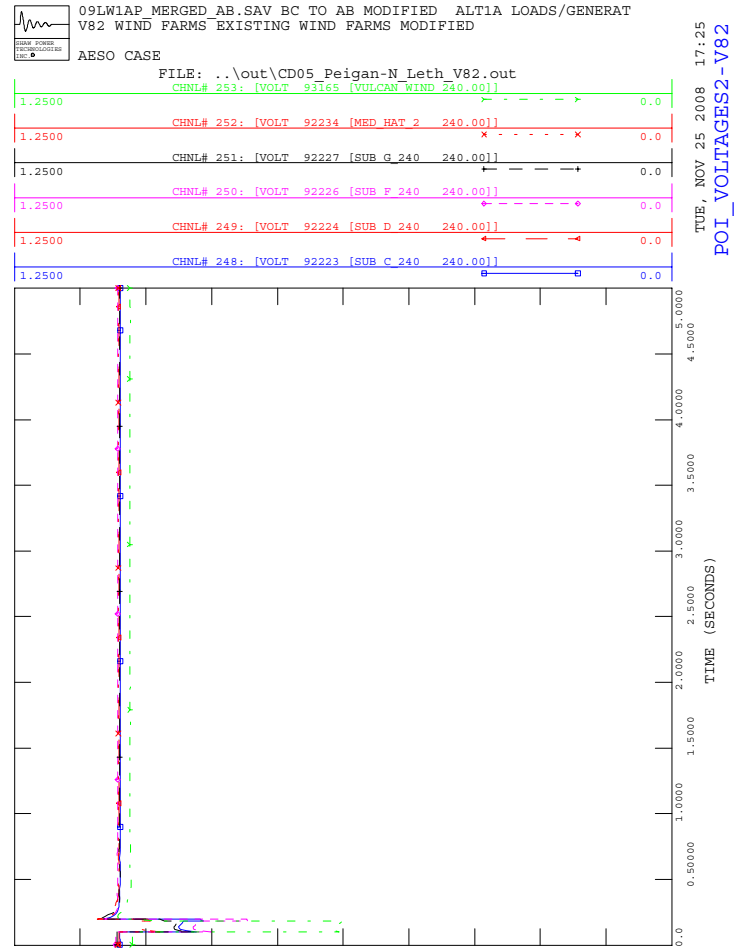


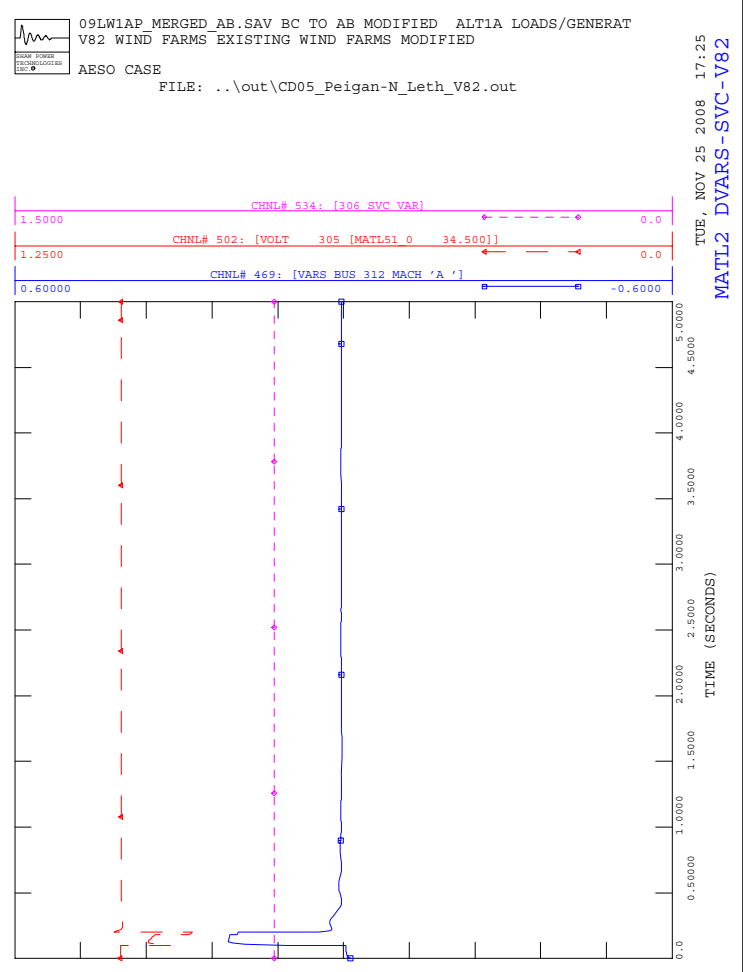
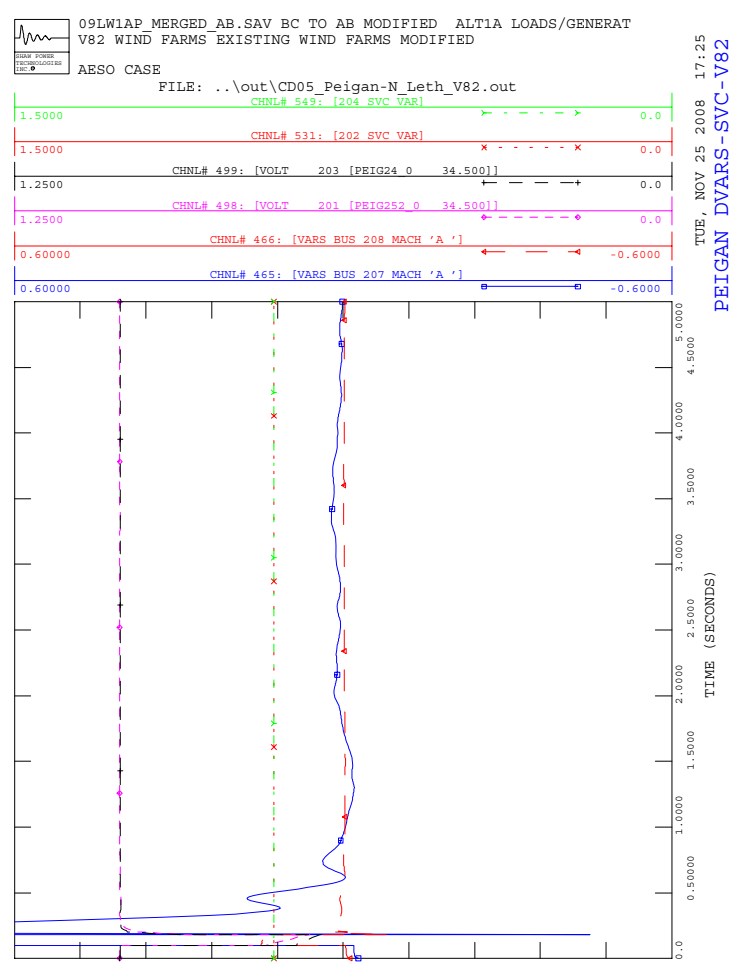
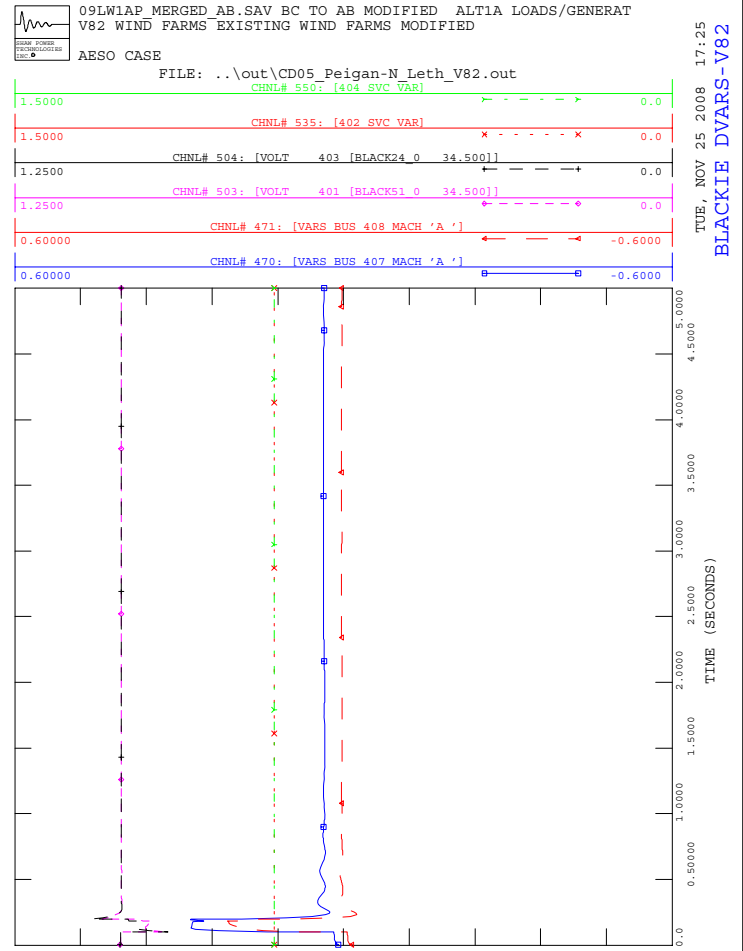
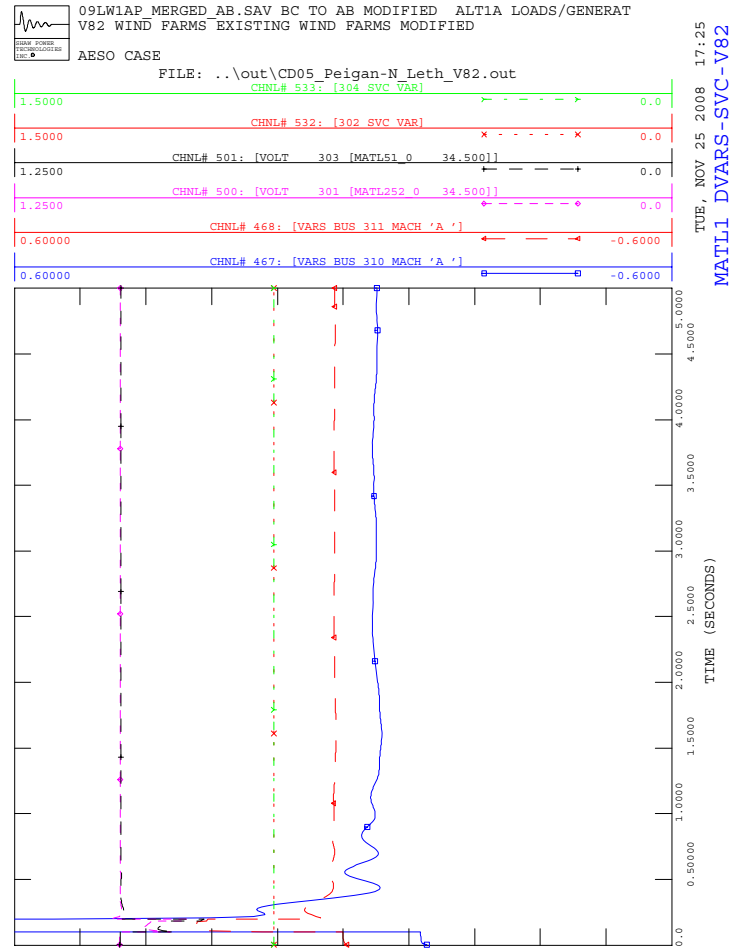


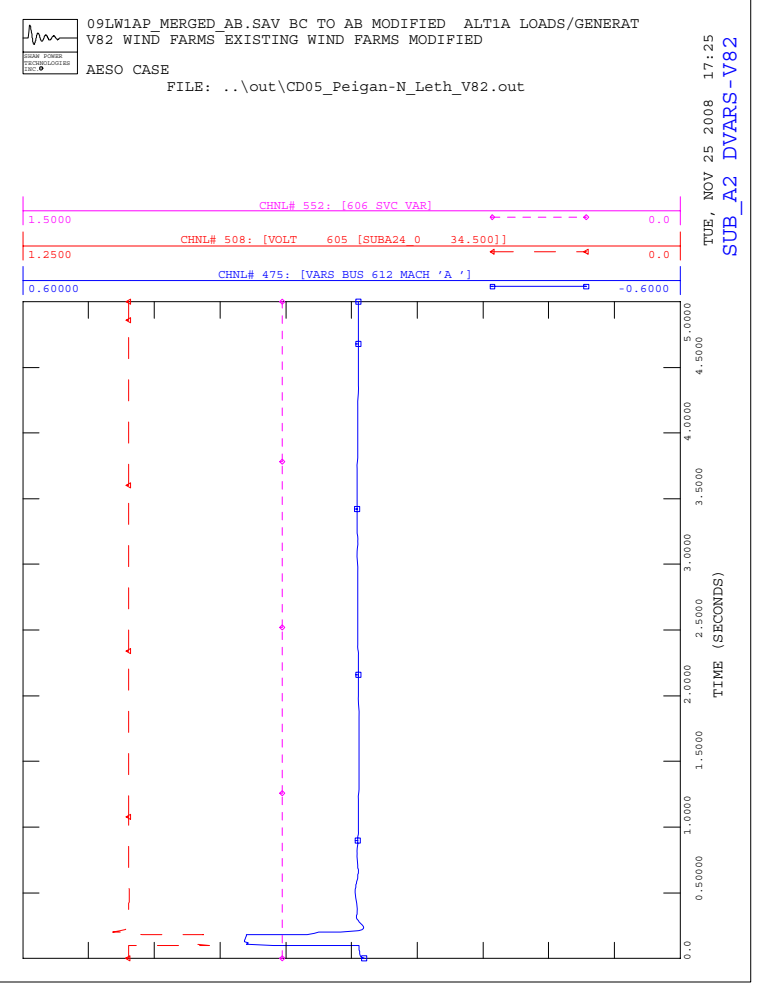
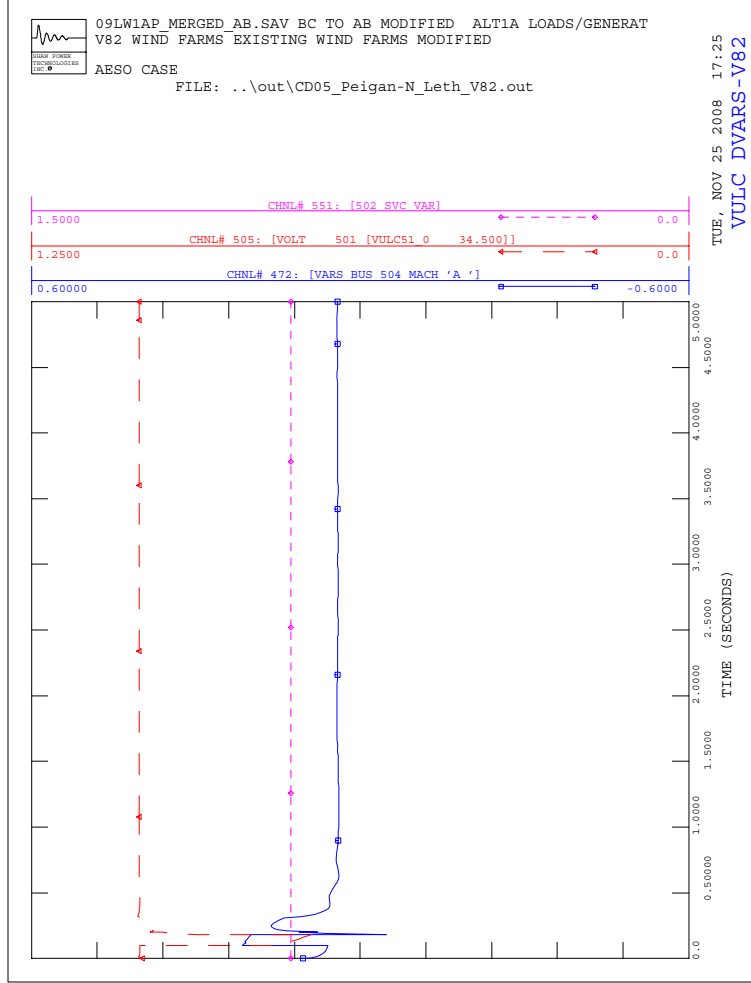
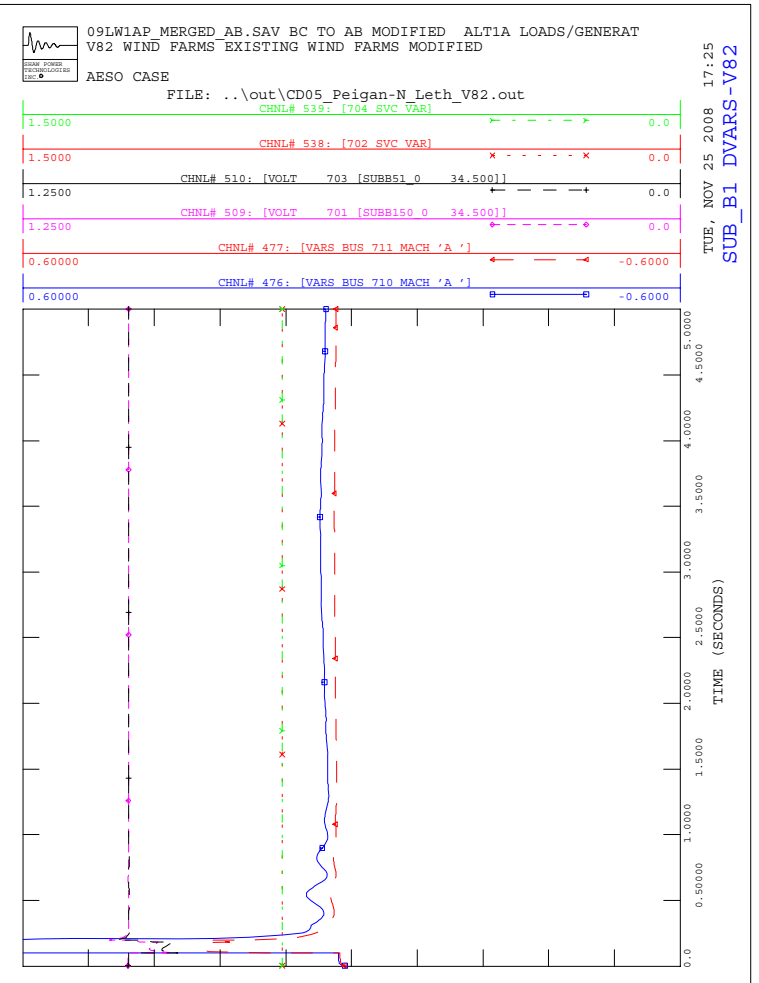
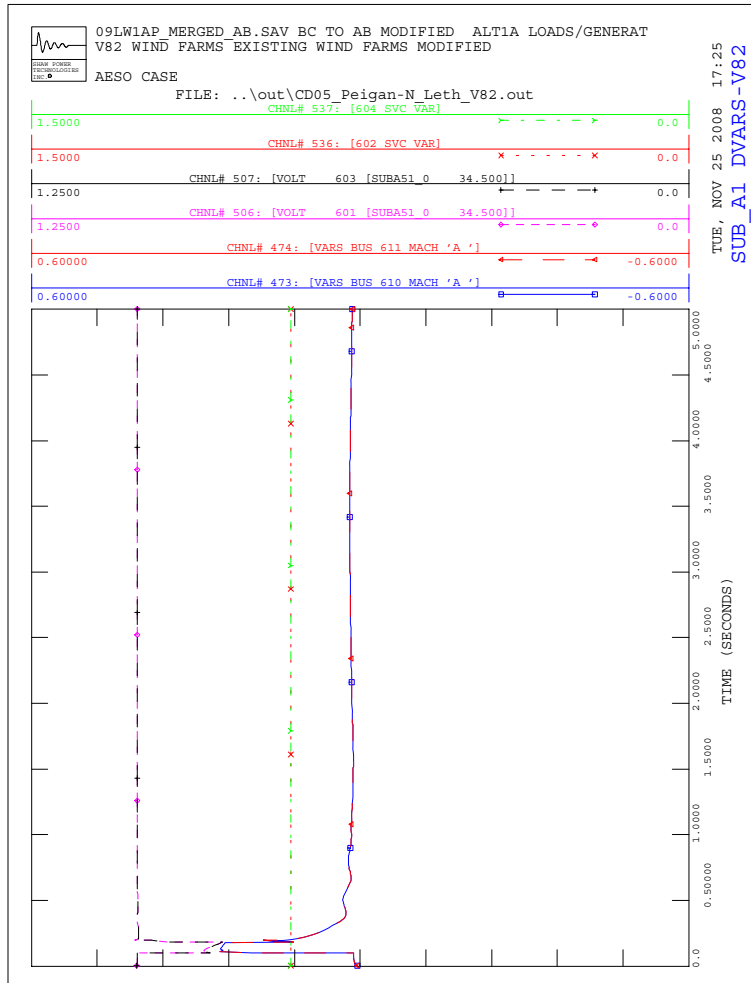


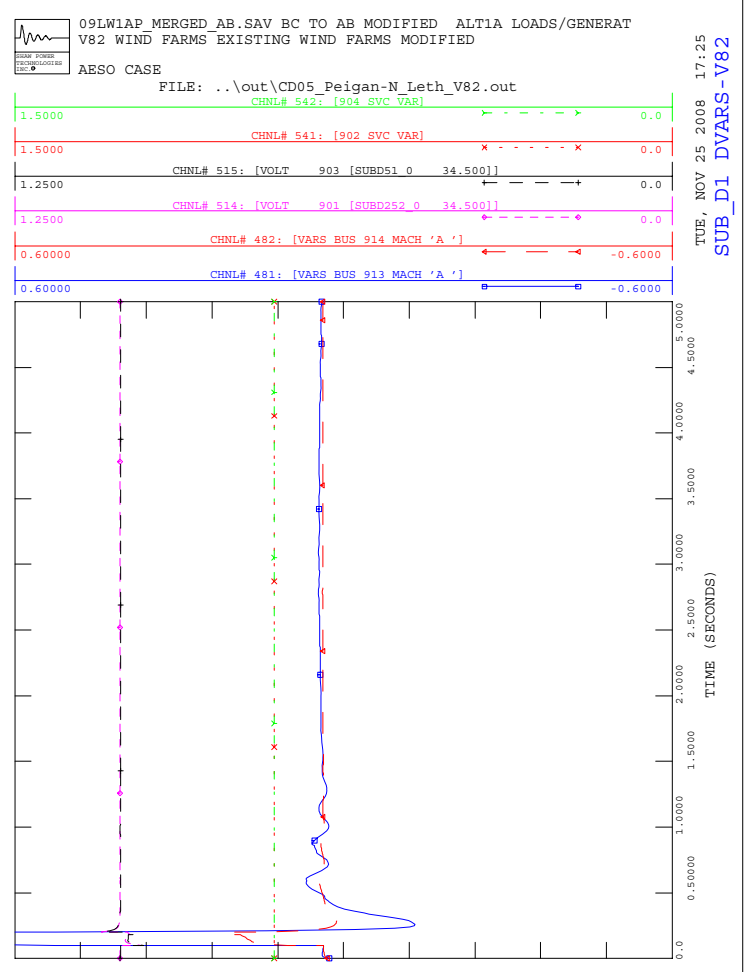
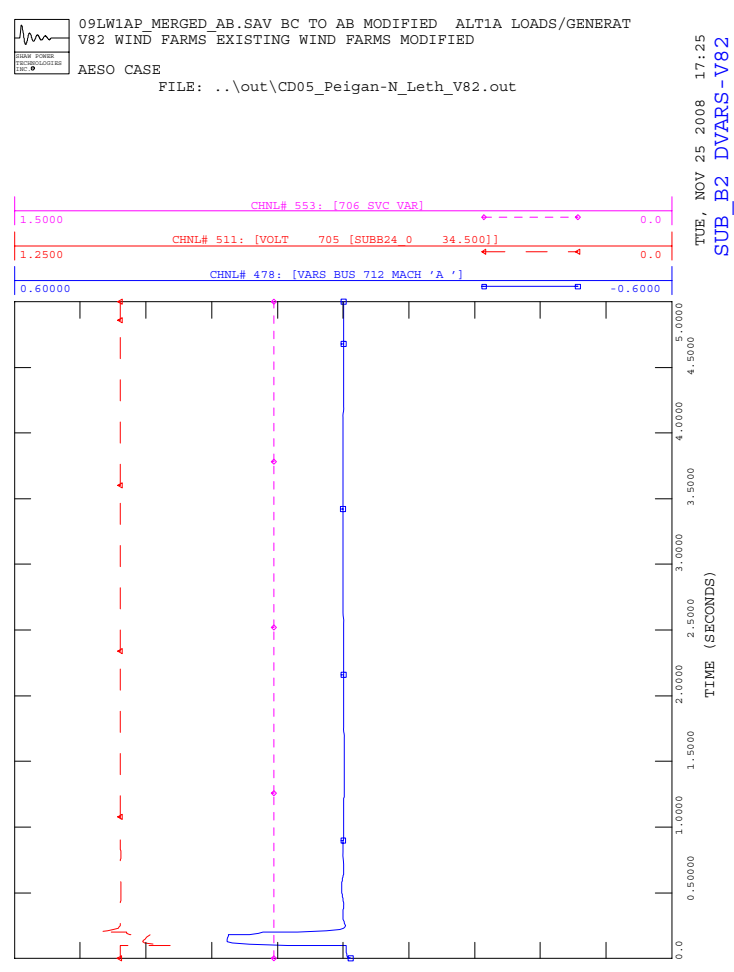
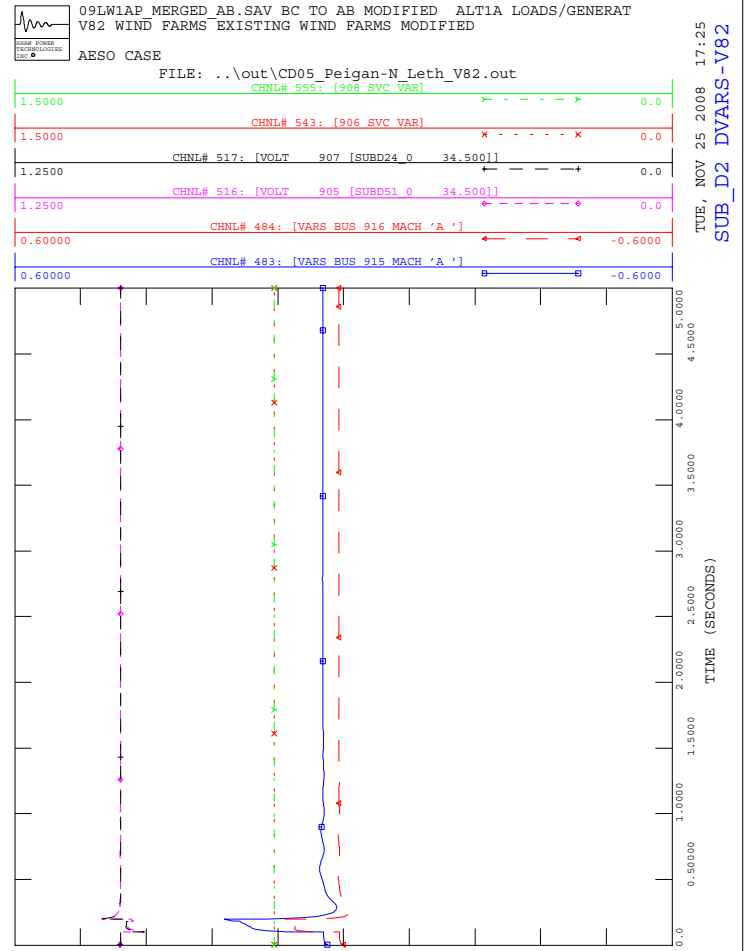
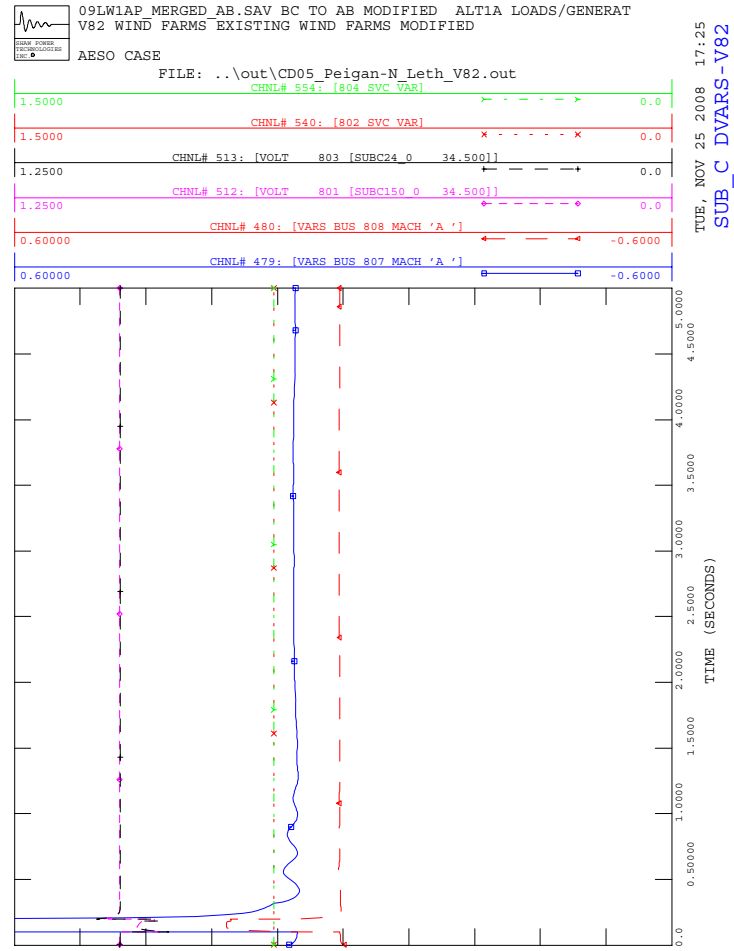


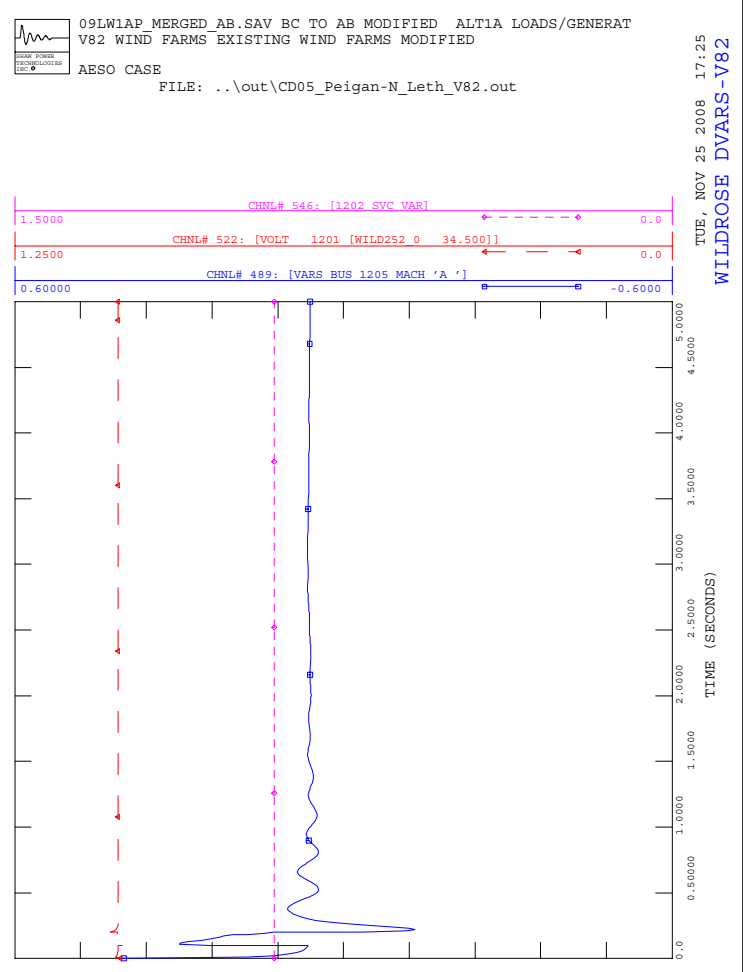
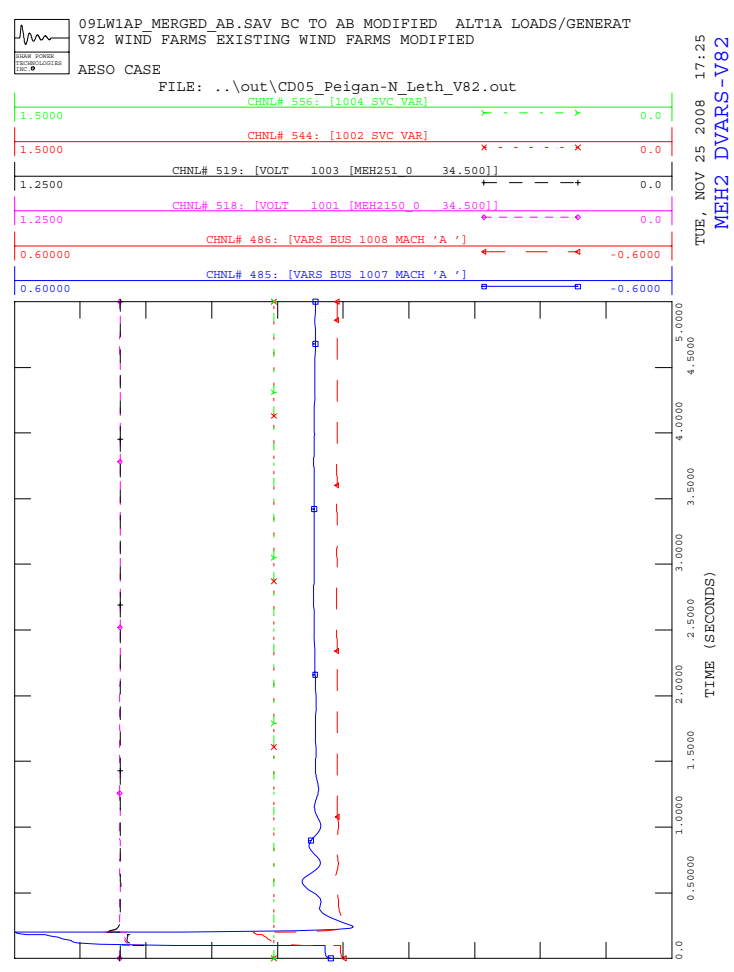
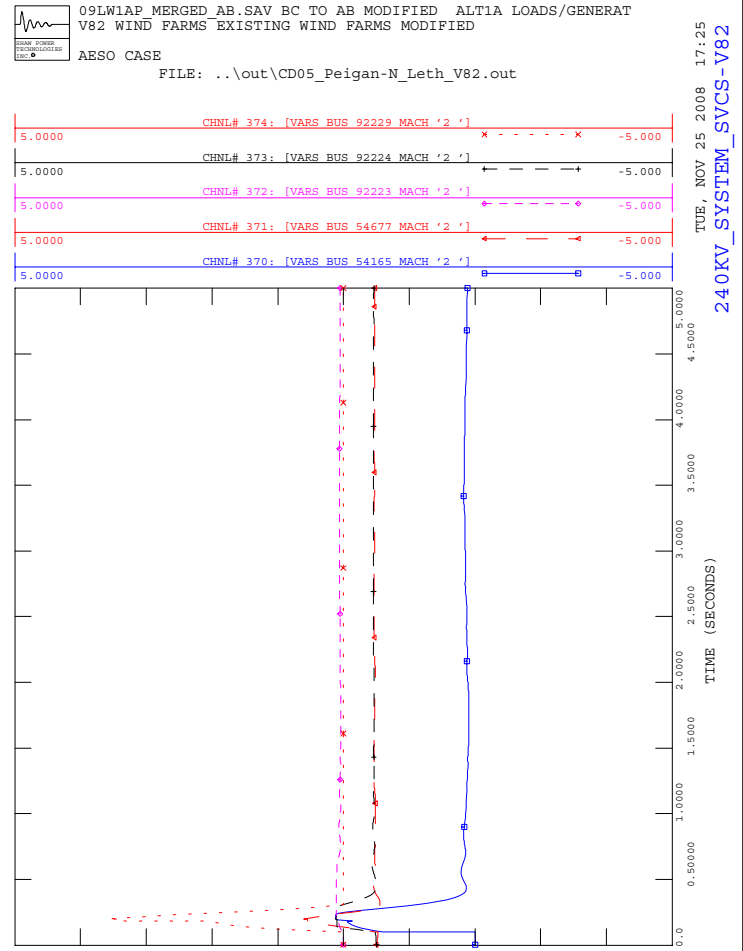
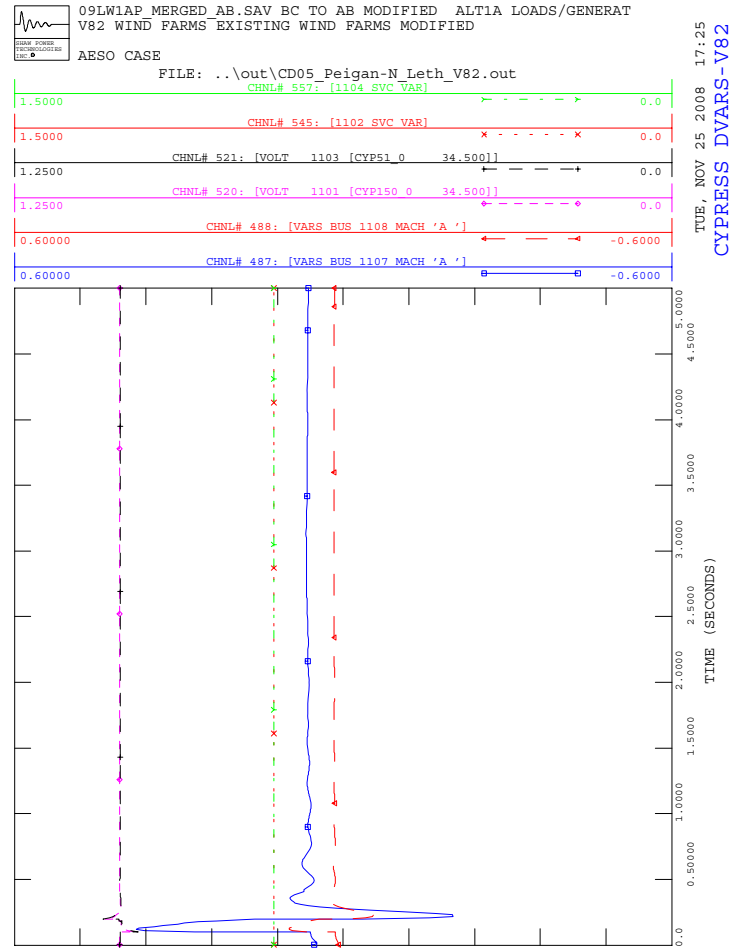












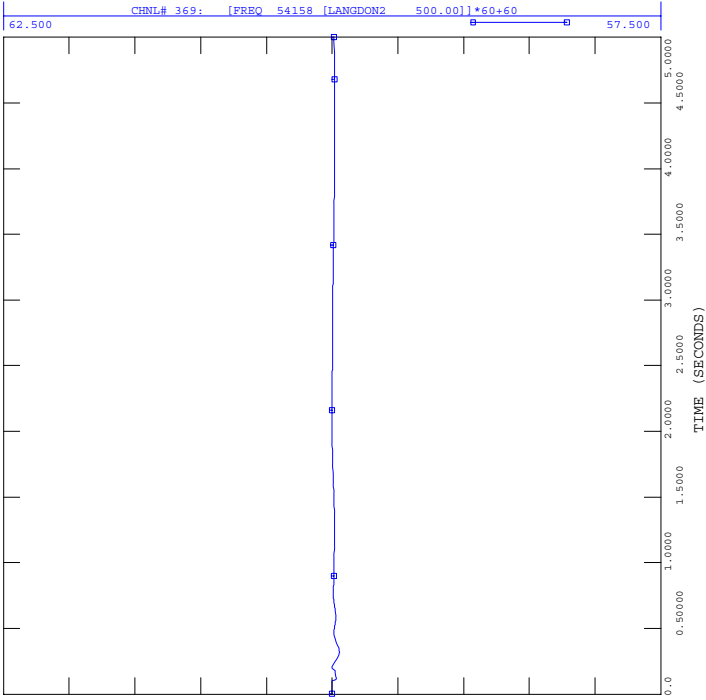


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD05_Peigan-N_Leth_V82.out

TUE, NOV 25 2008 17:25
LANGDON_FRQ-V82

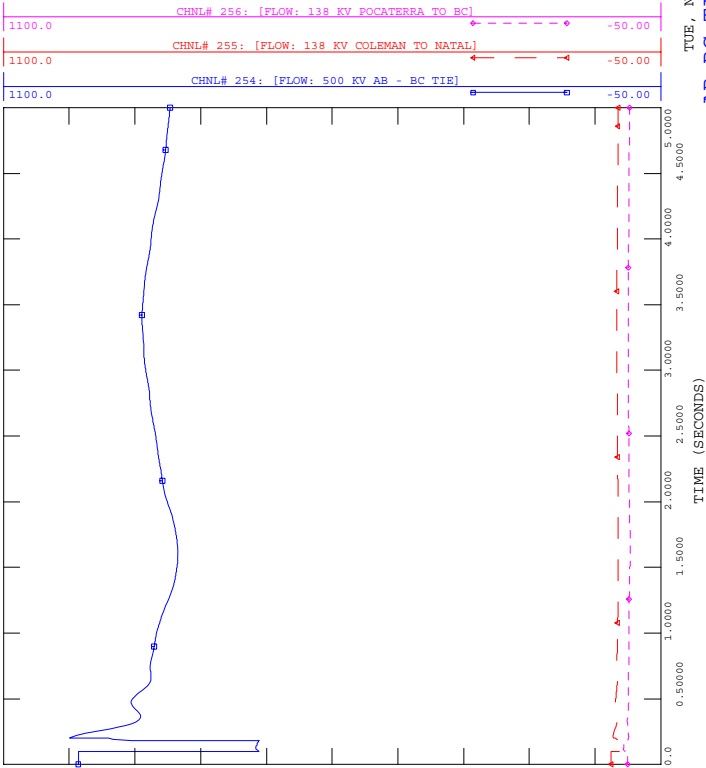


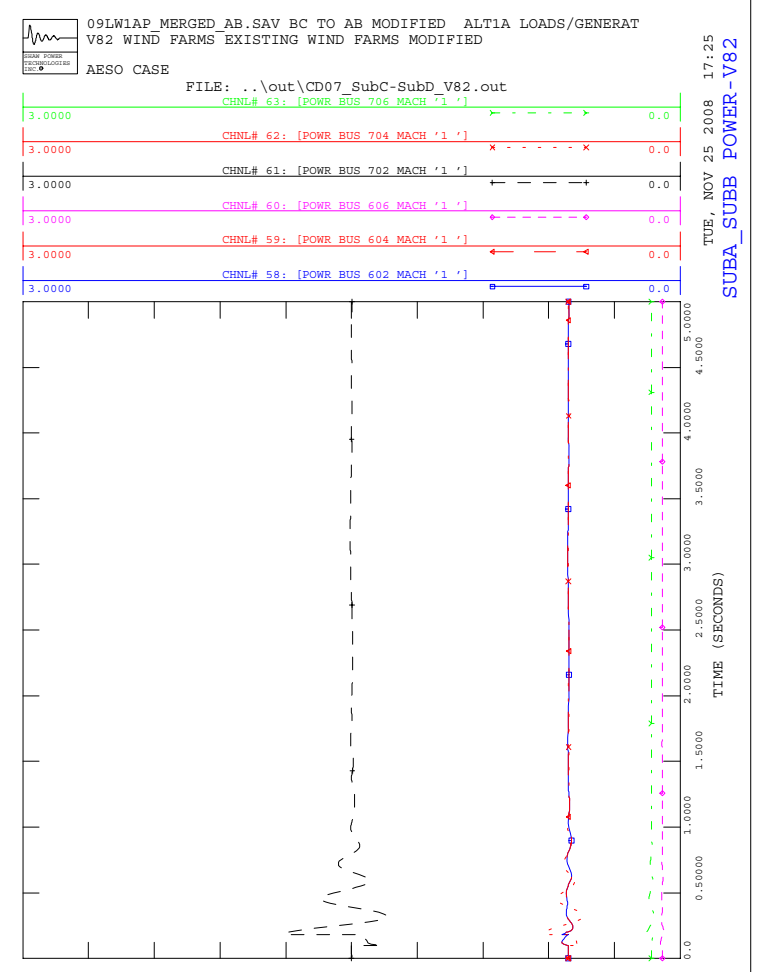
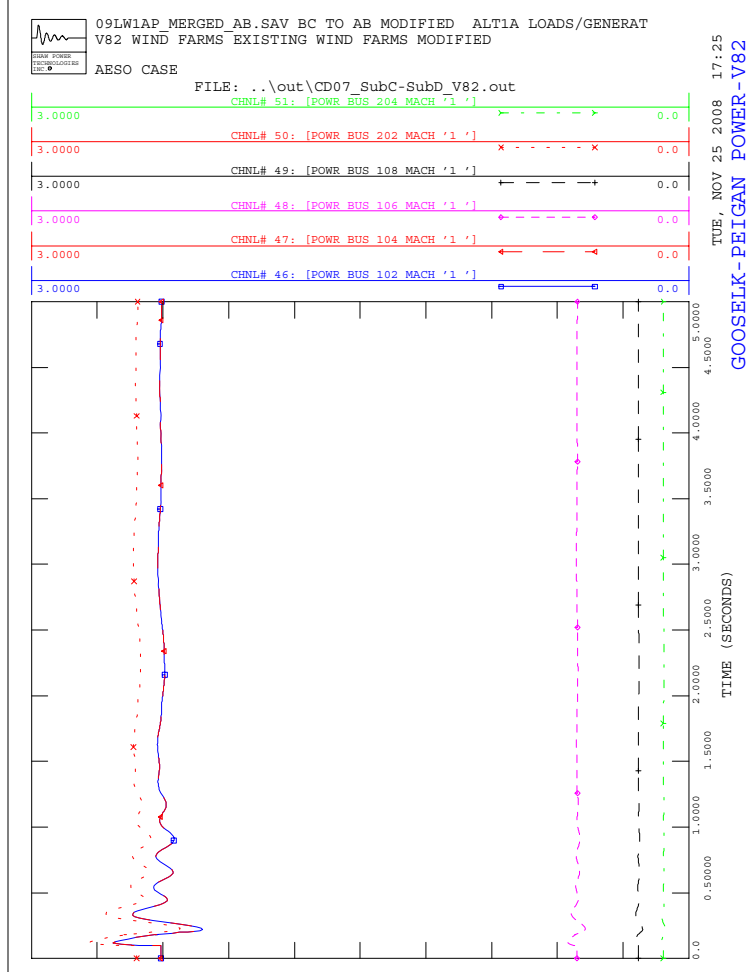
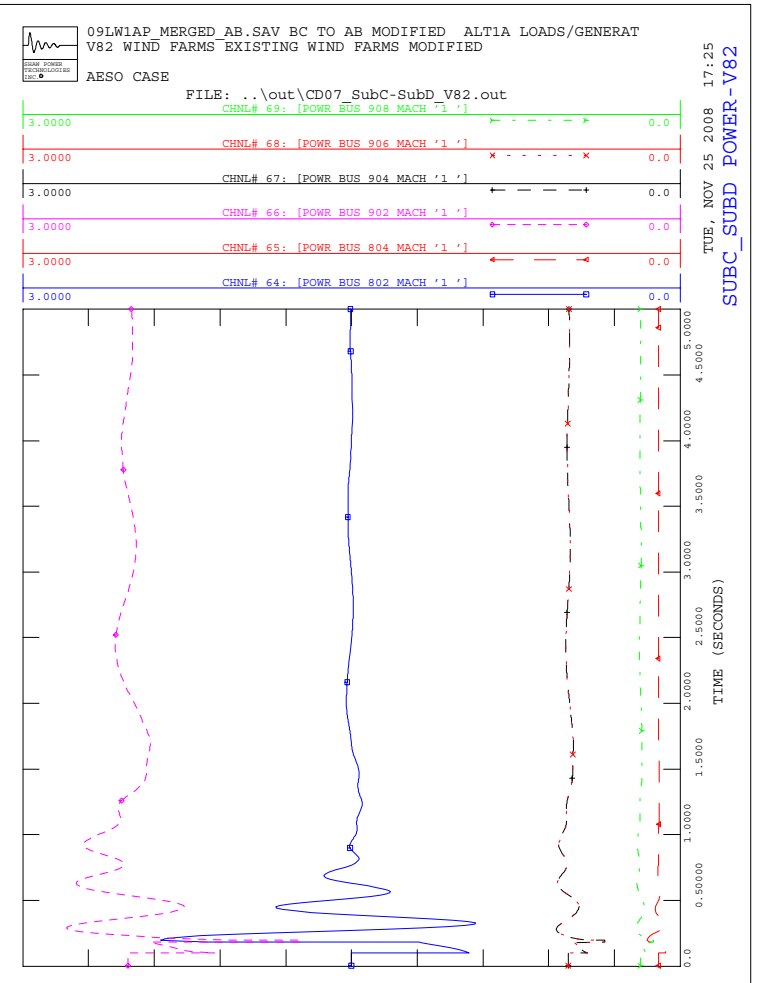
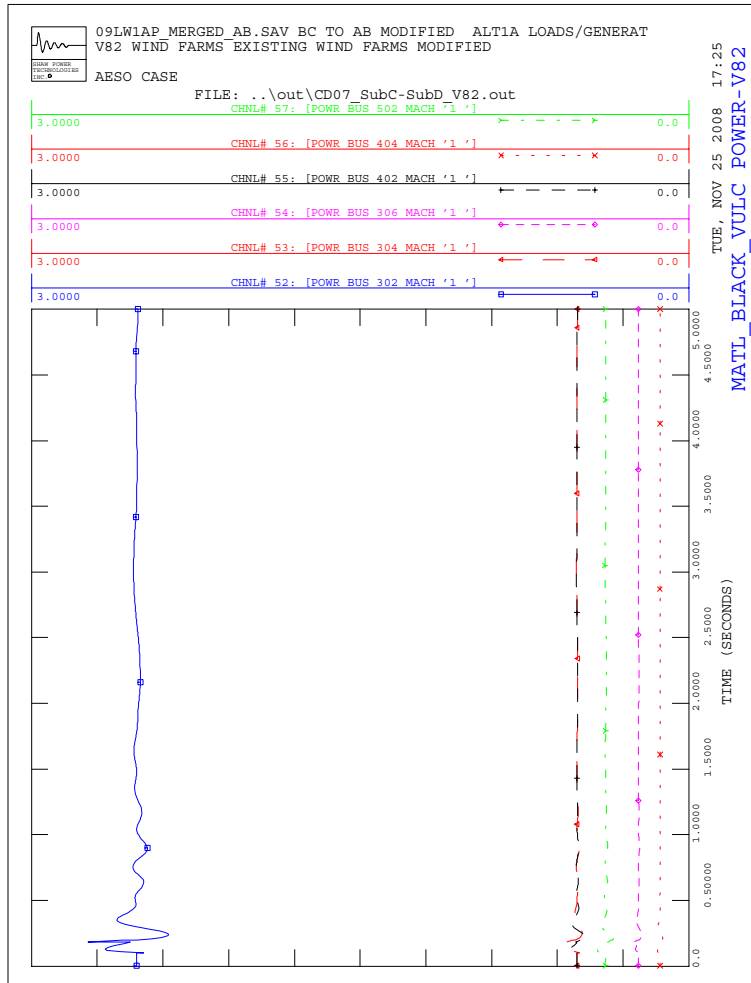
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

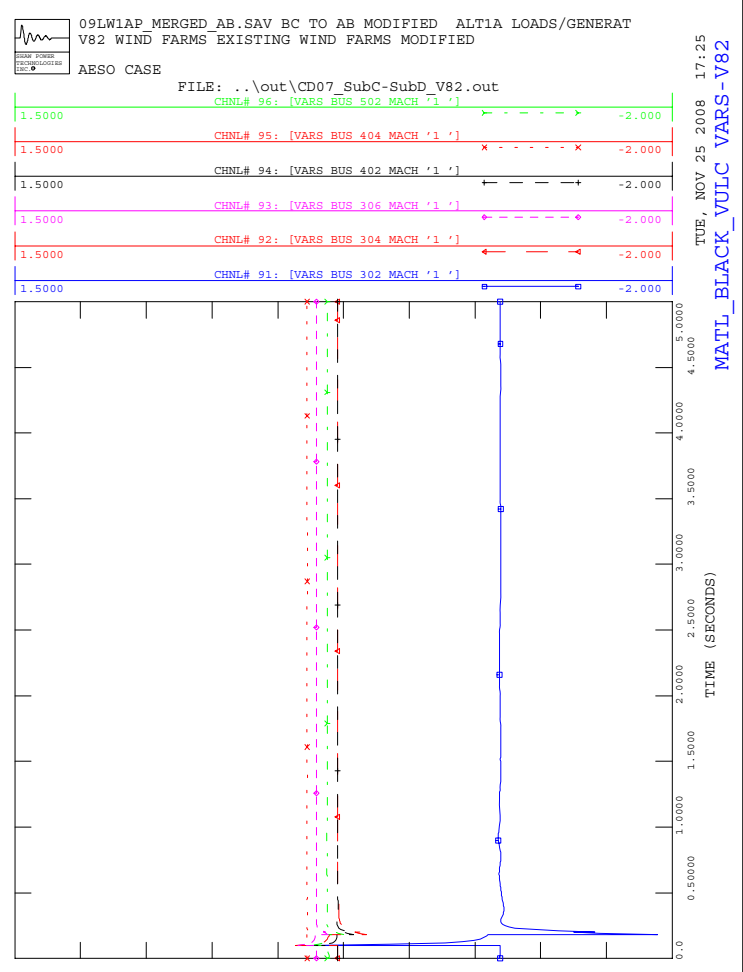
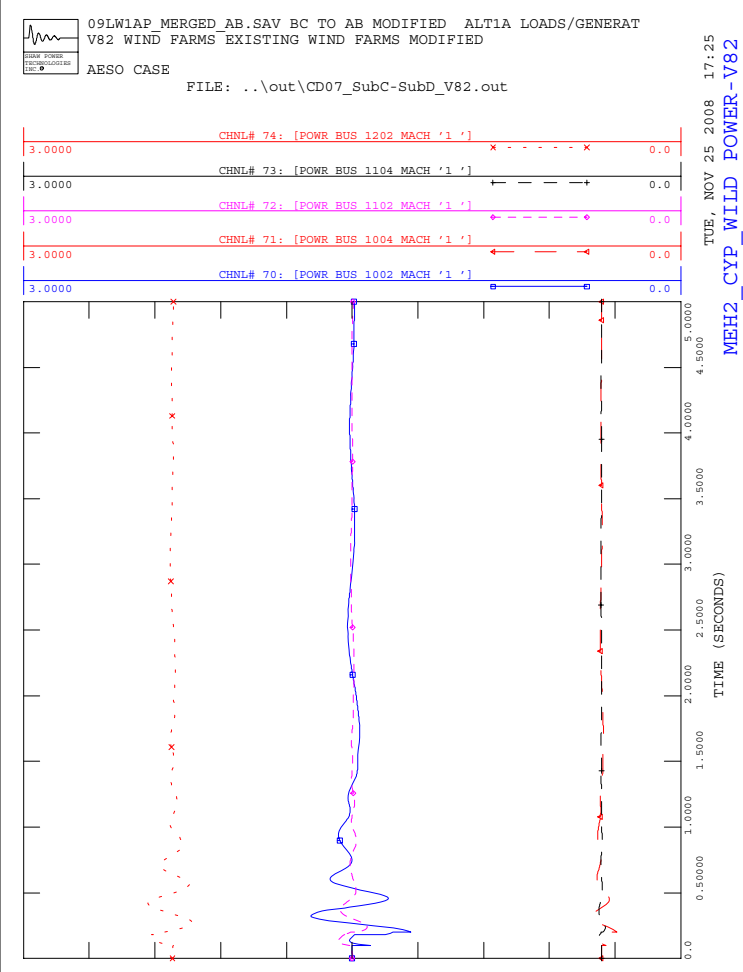
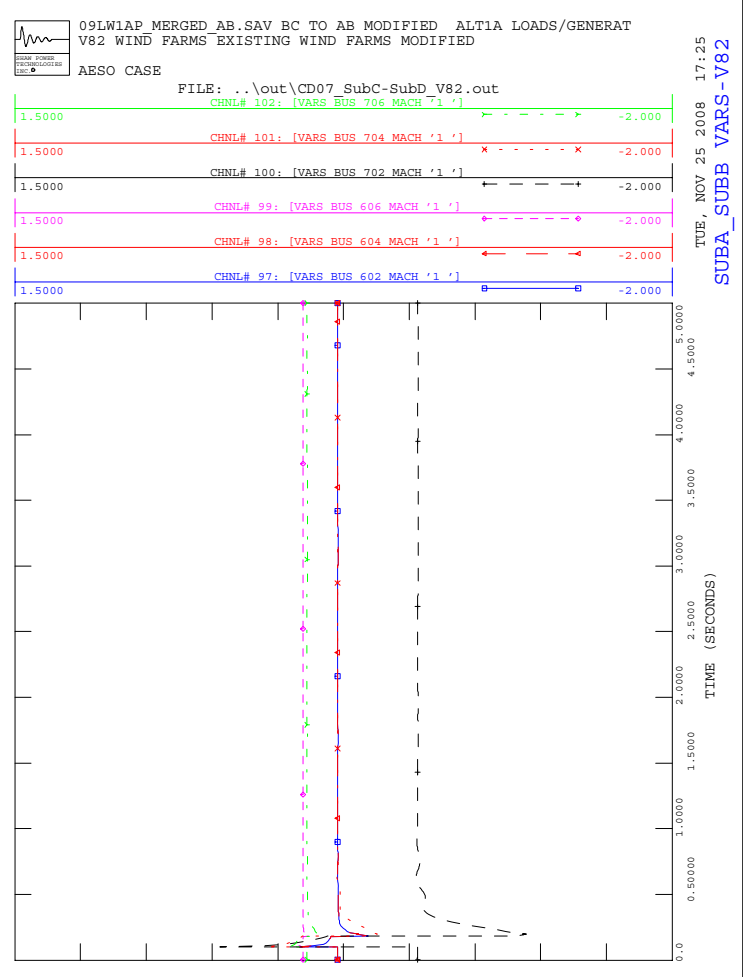
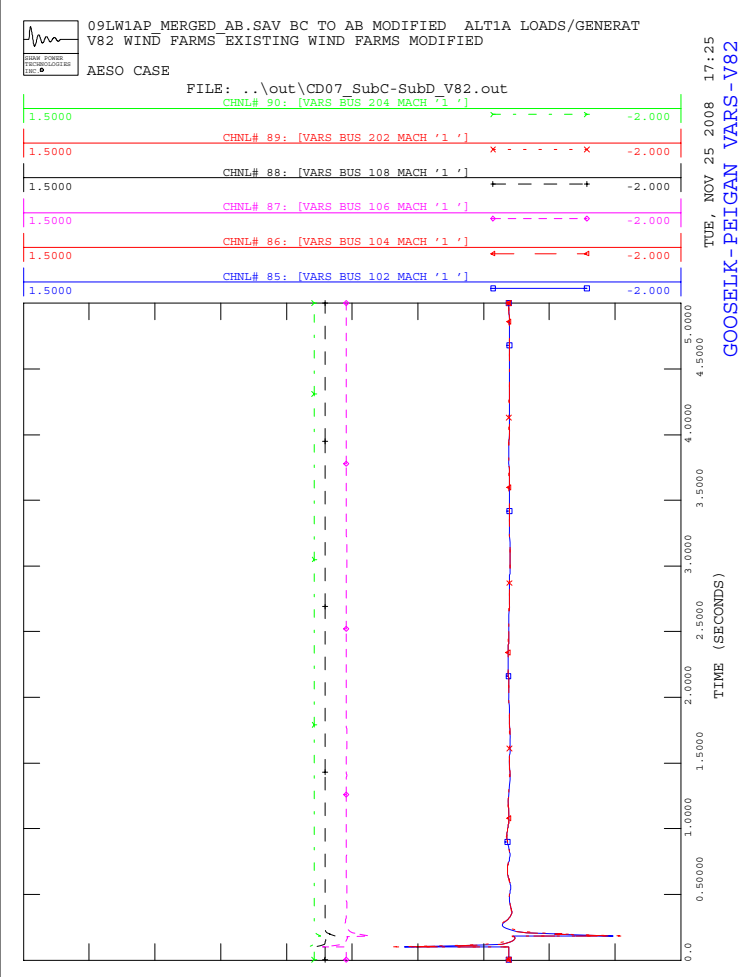
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TUE, NOV 25 2008 17:25
AB_BC_TIE_FLOWS-V82

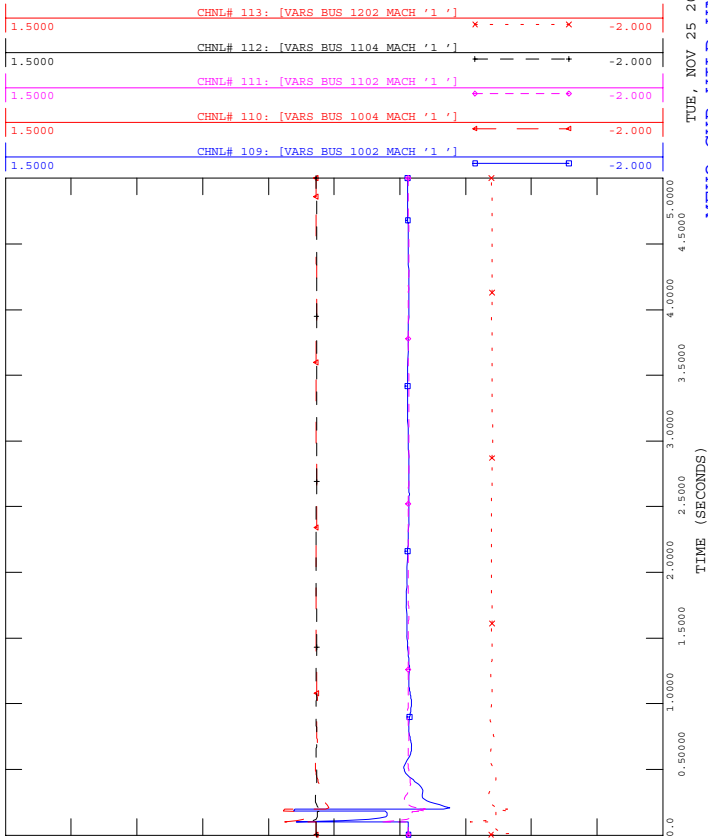






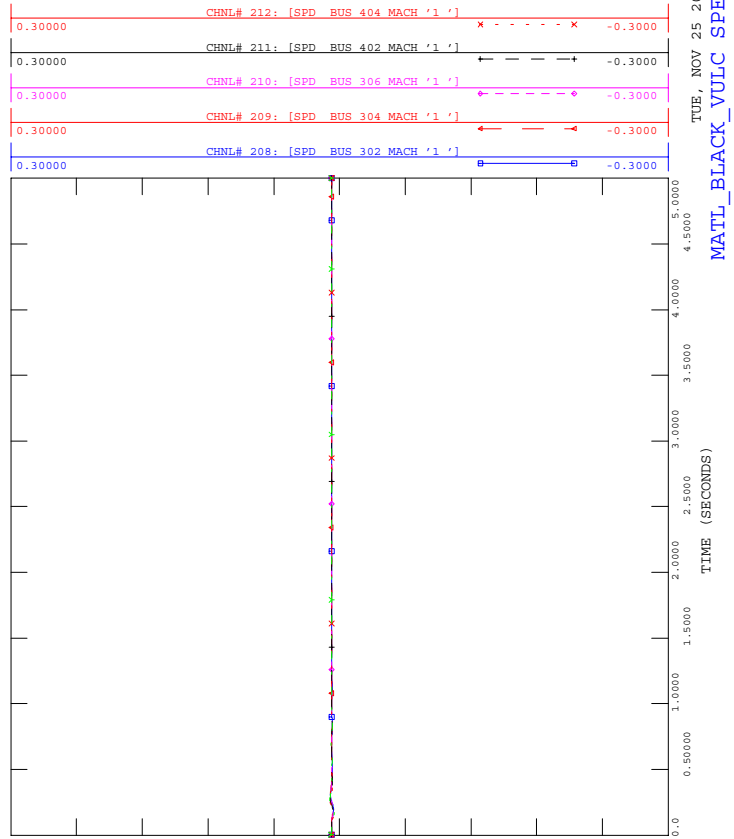
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

FILE: ..\out\CD07_SubC-SubD_V82.out



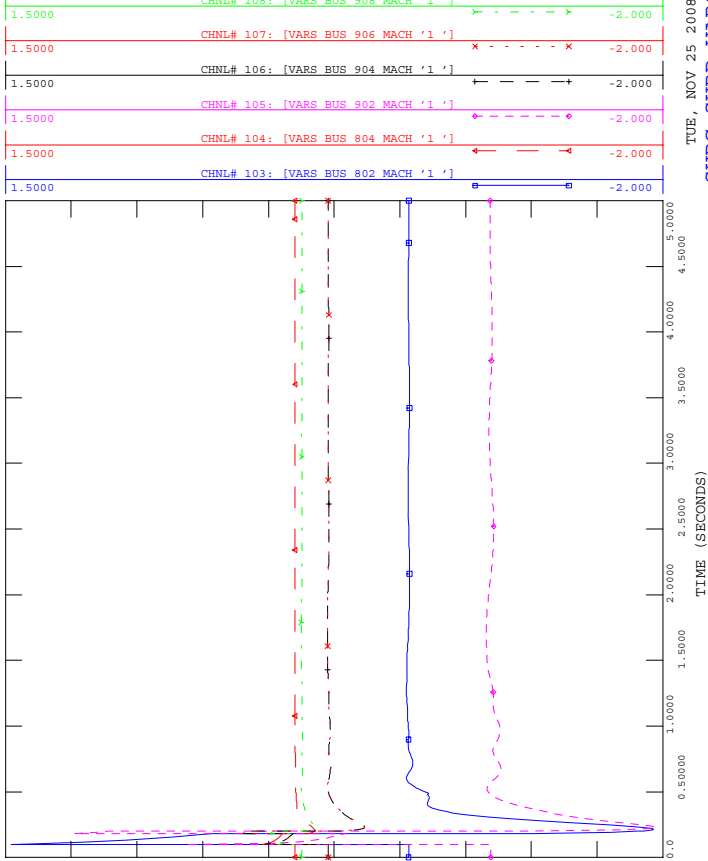
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

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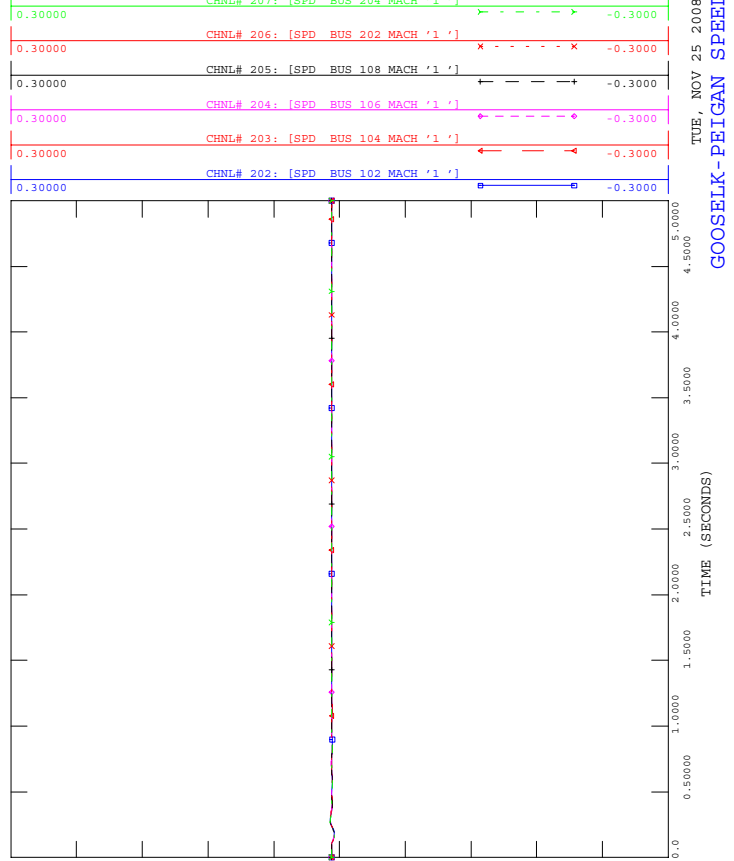
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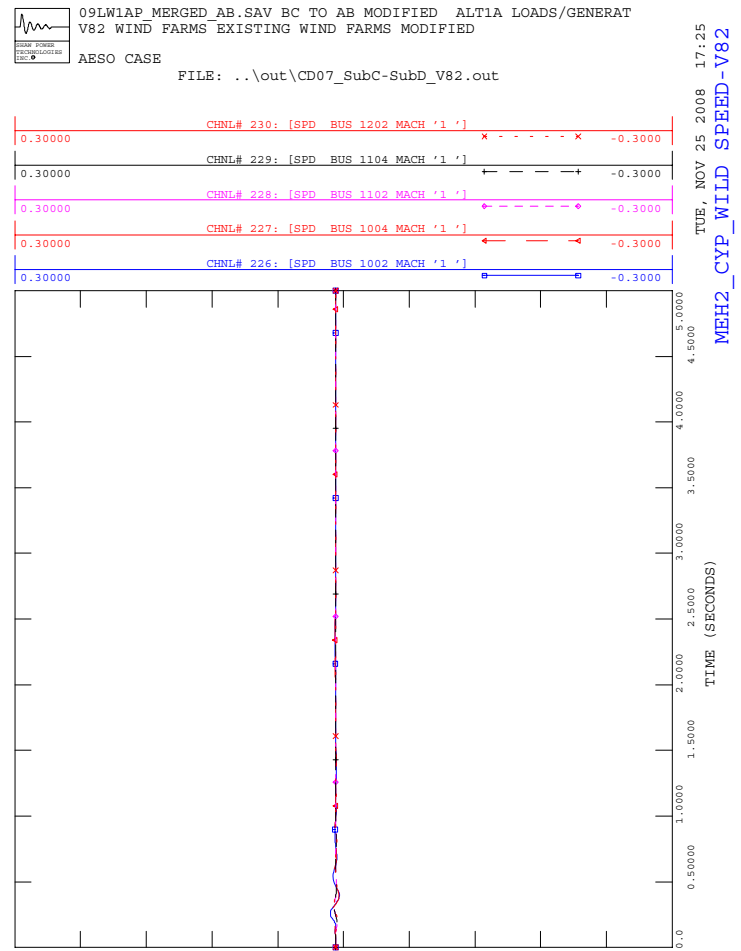
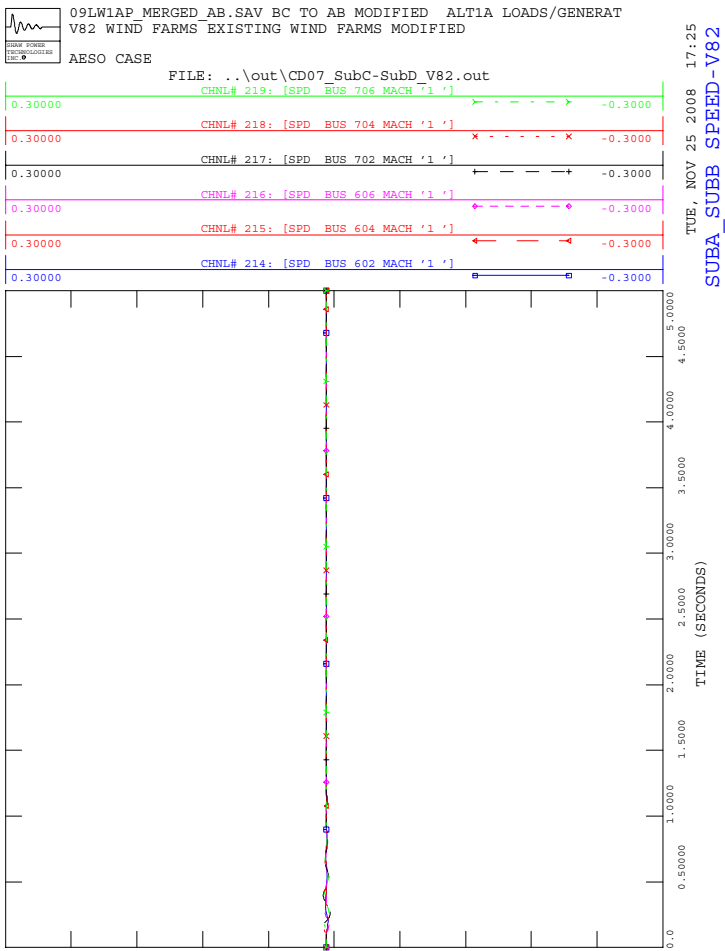
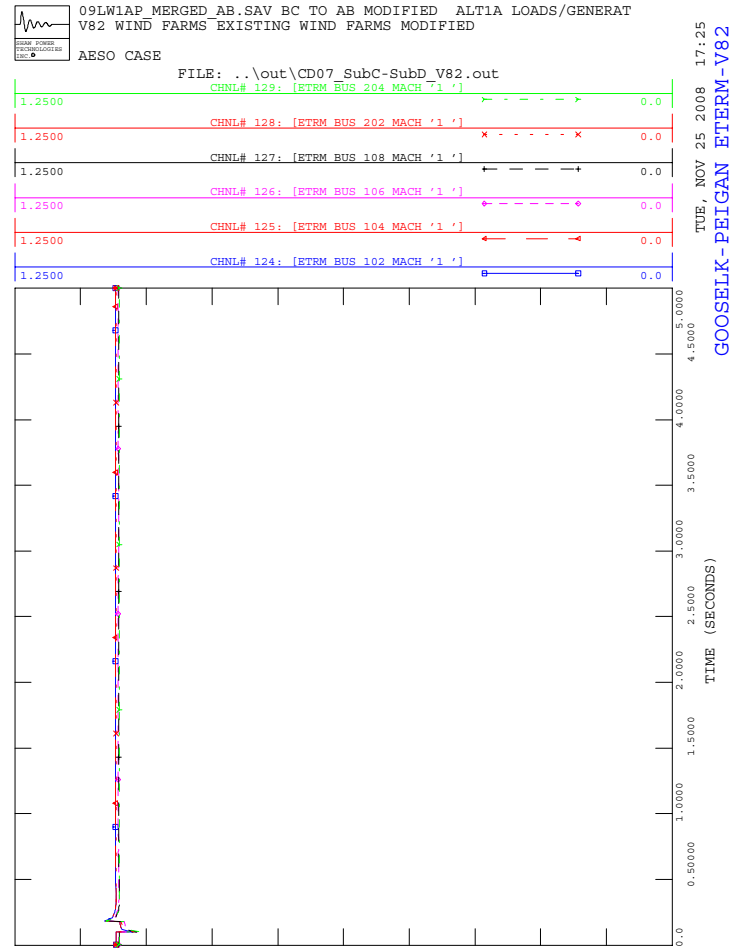
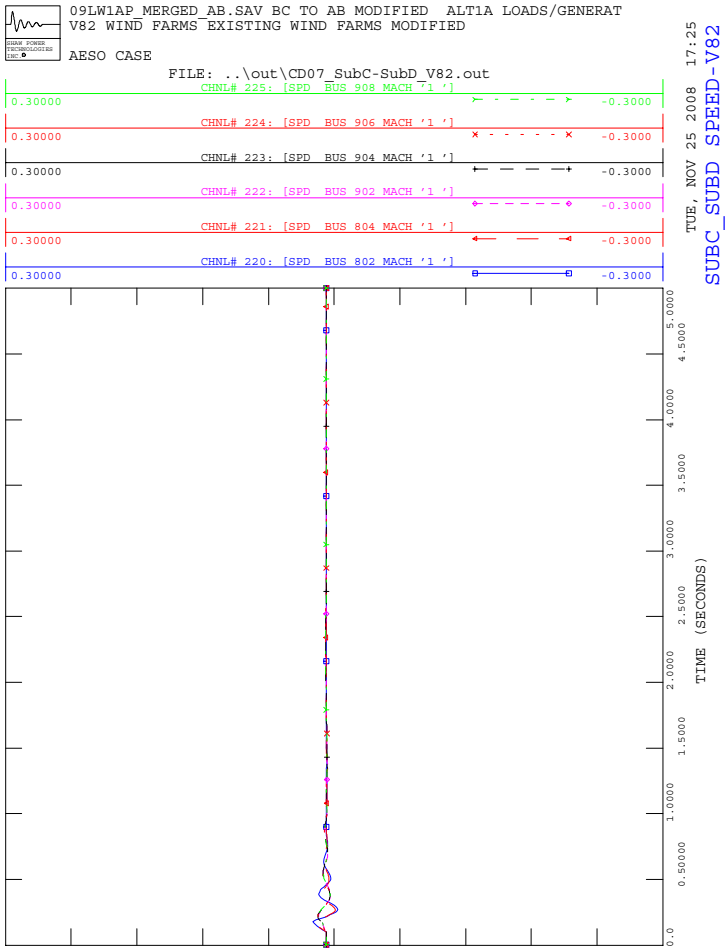
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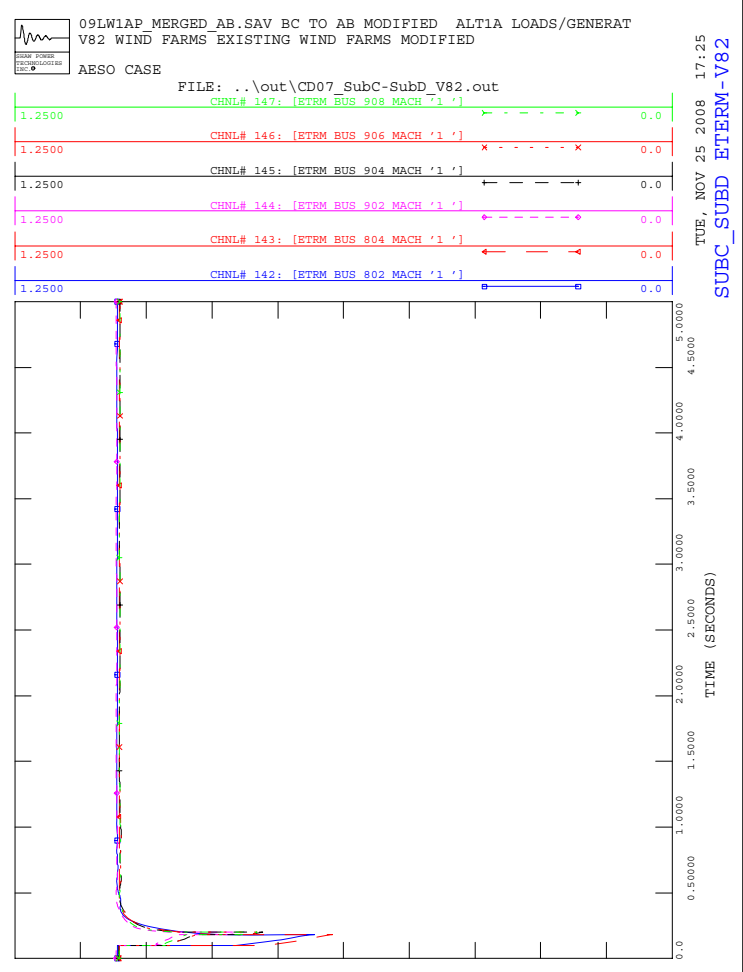
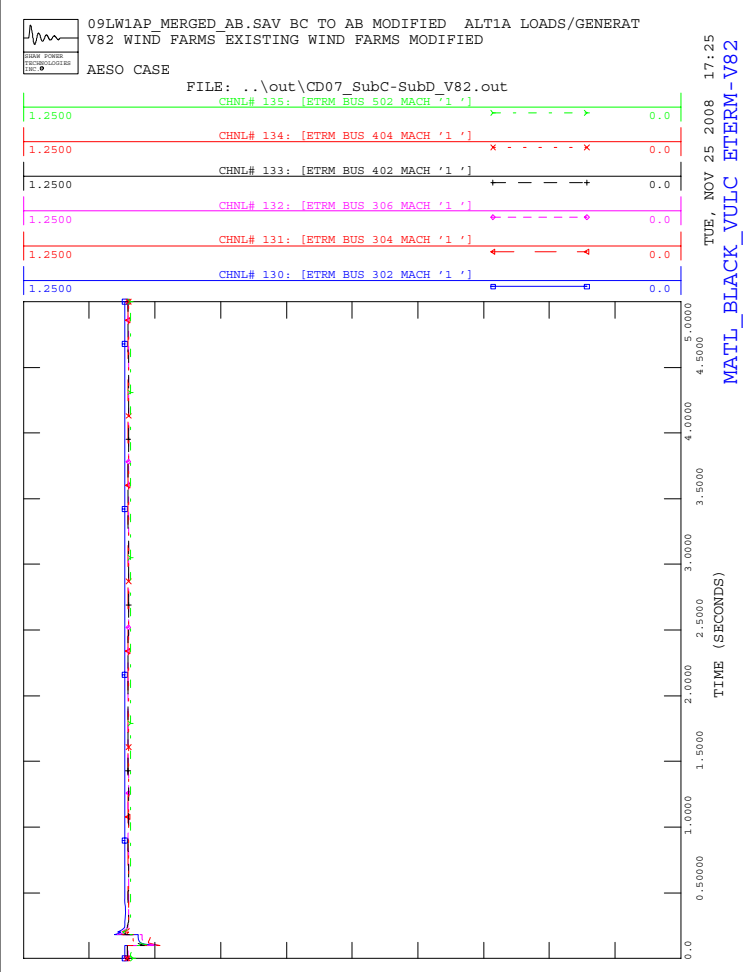
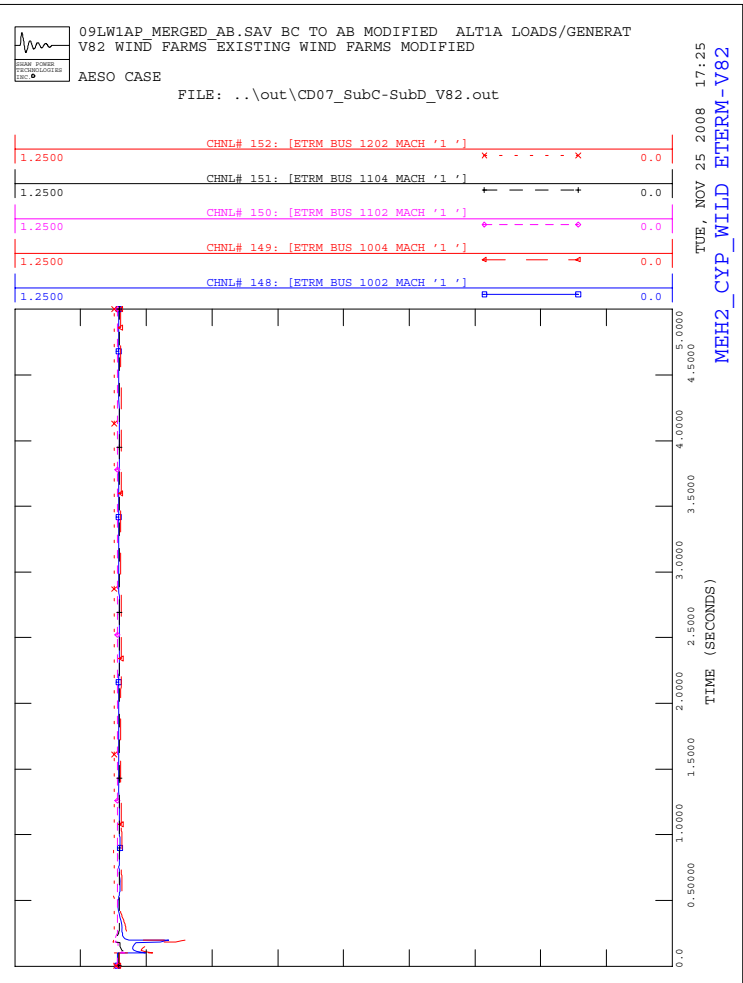
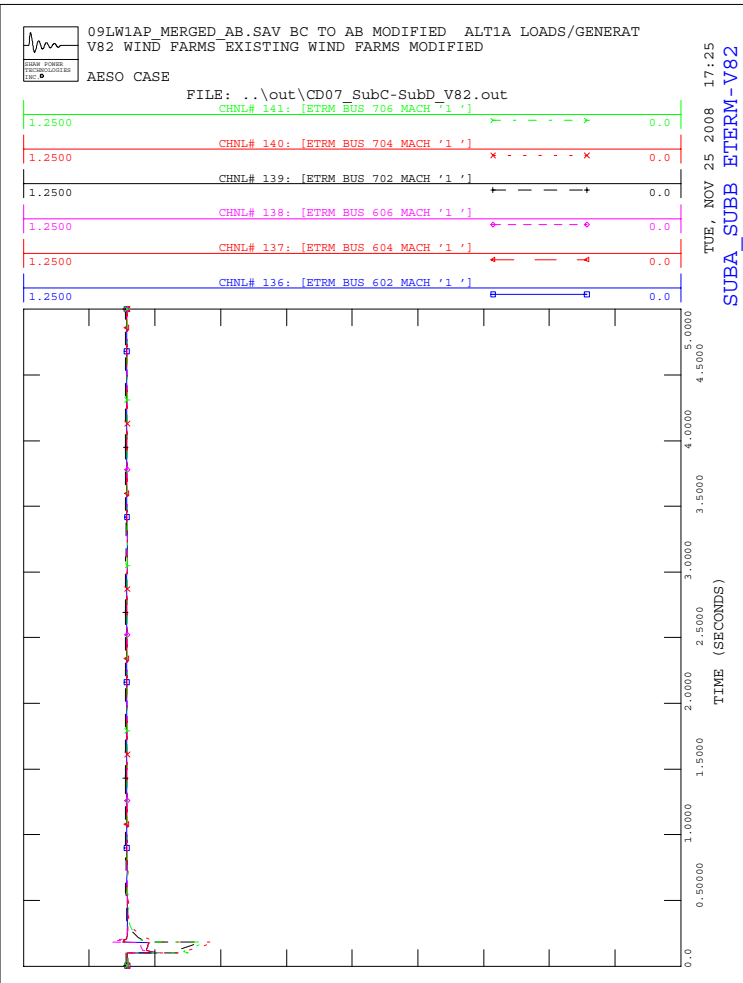


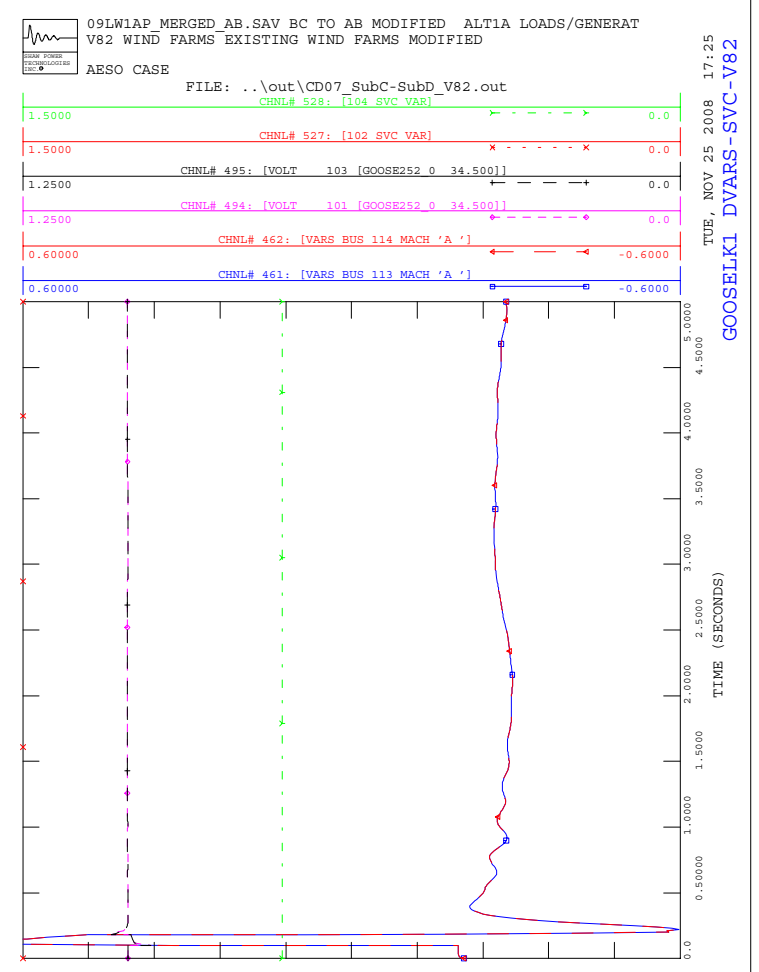
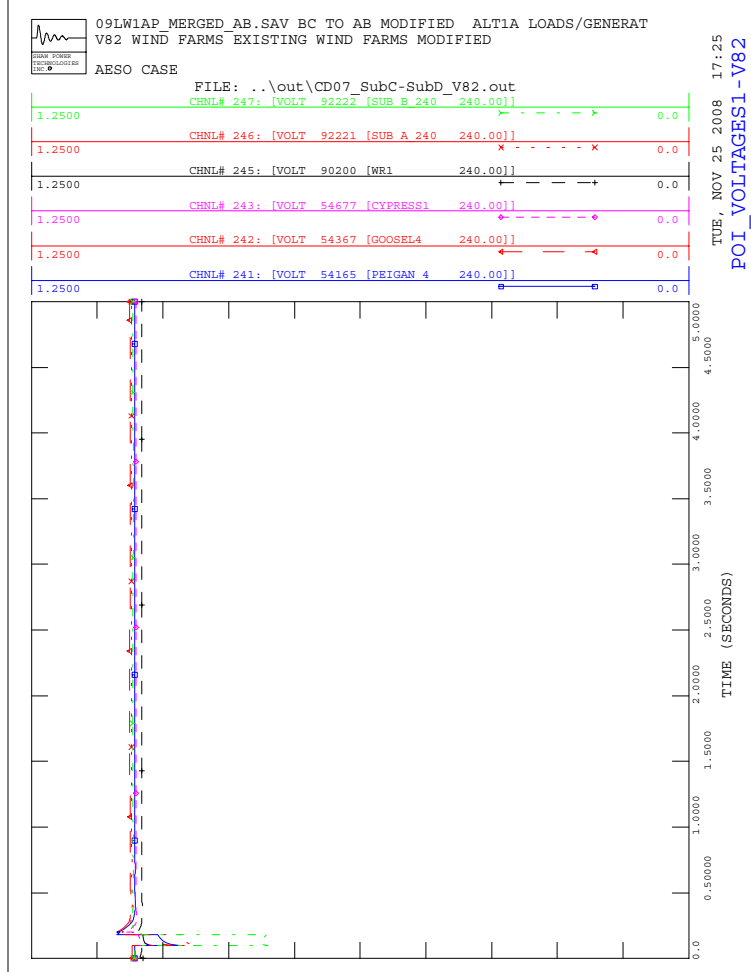
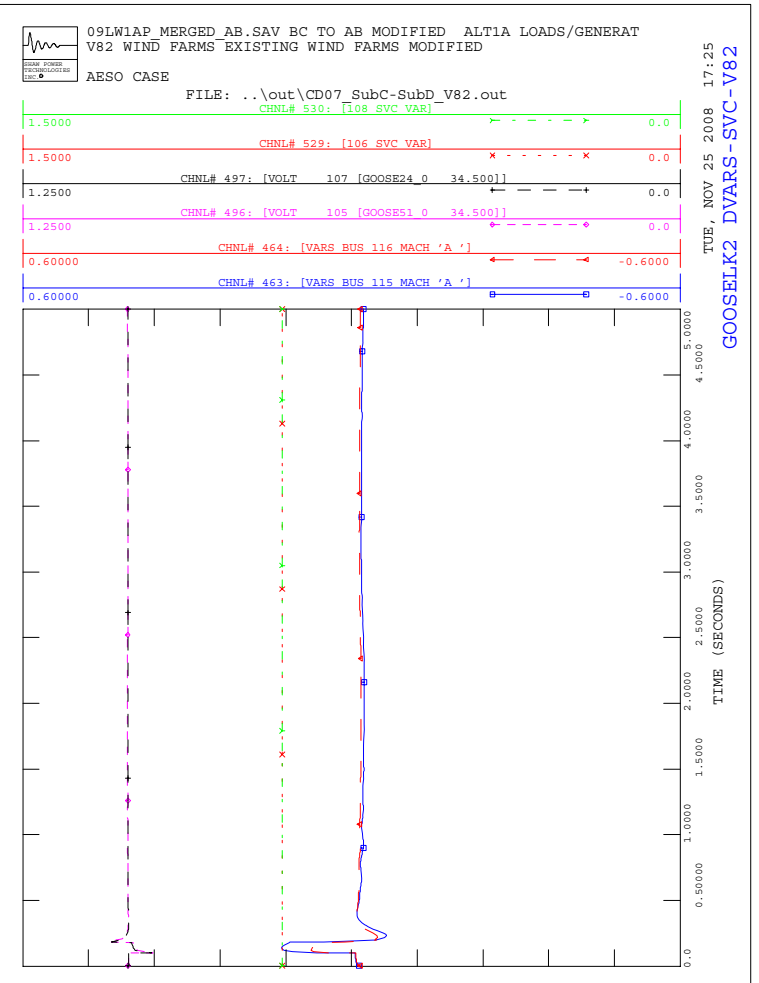
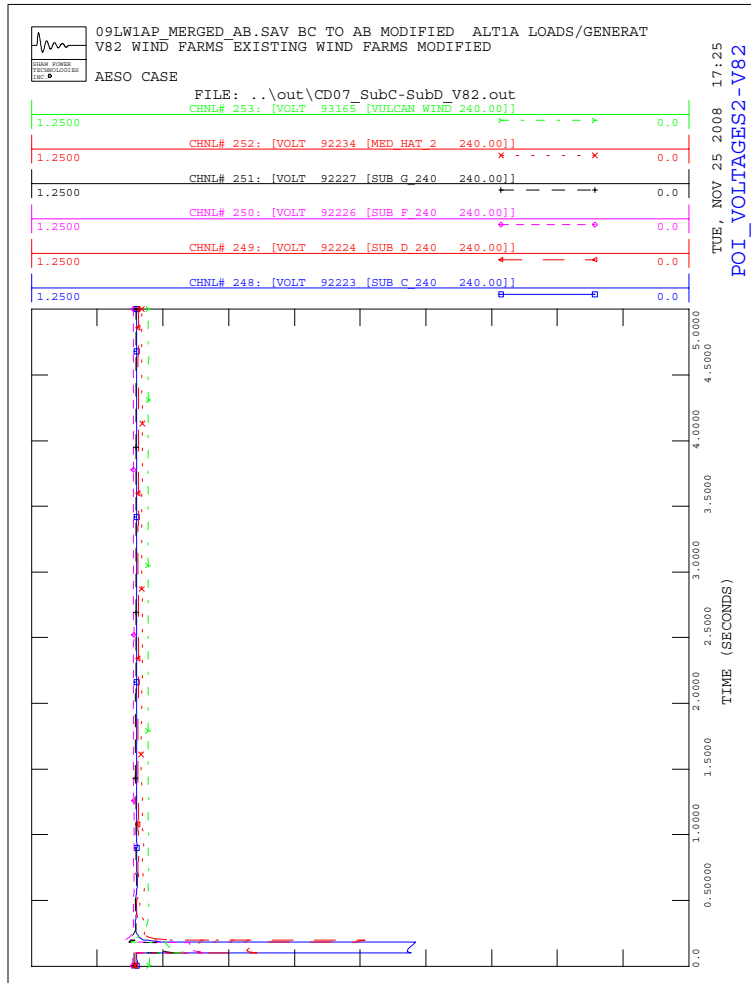
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

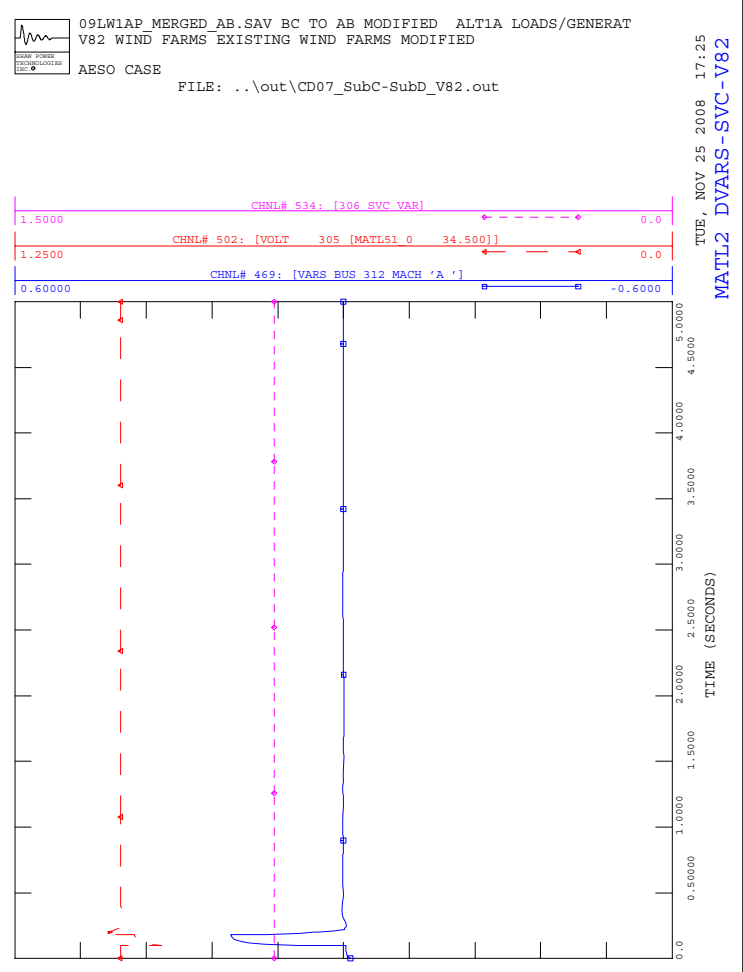
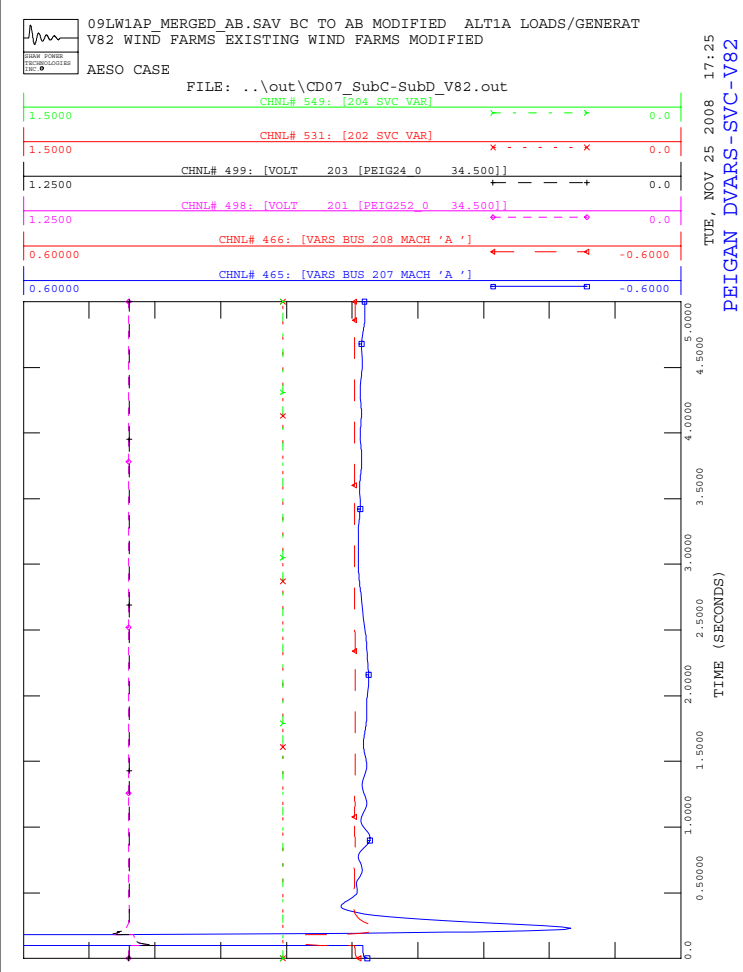
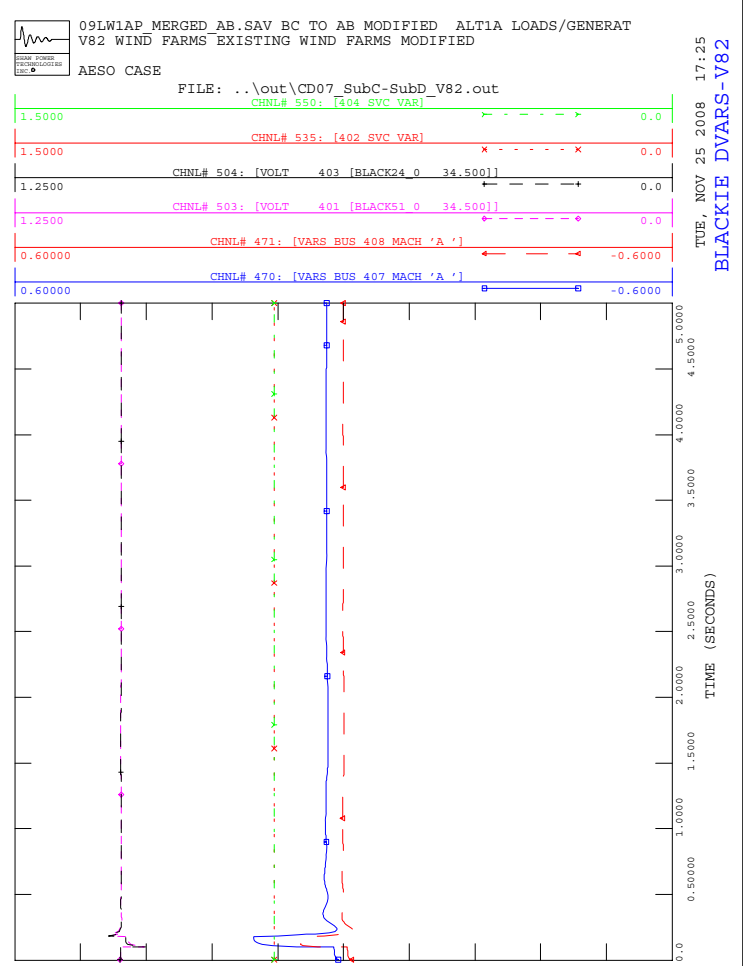
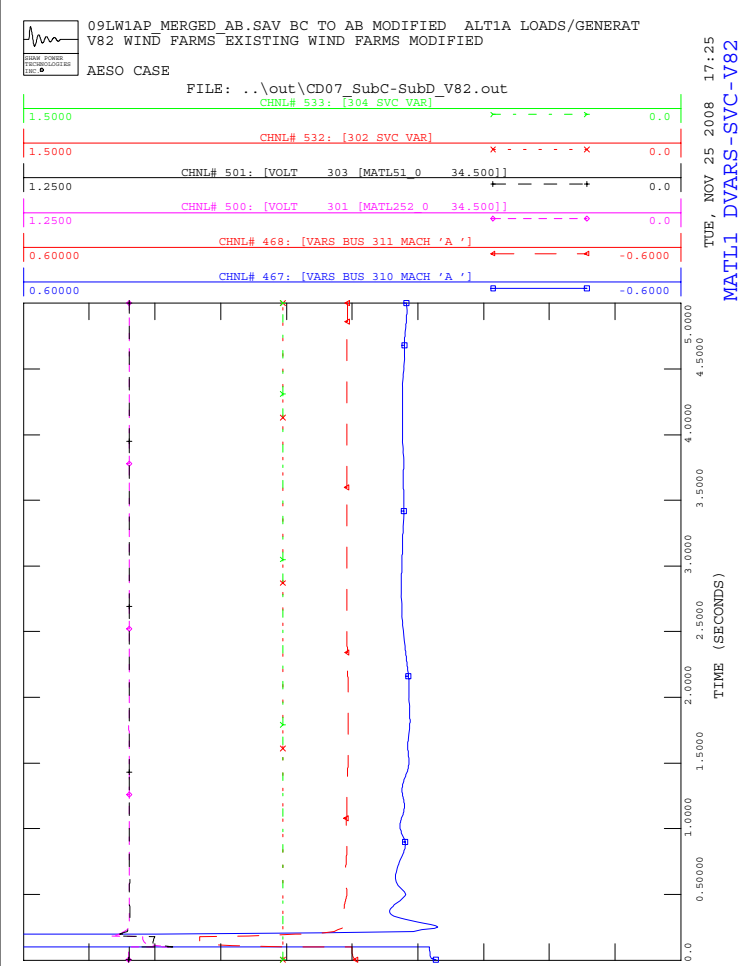
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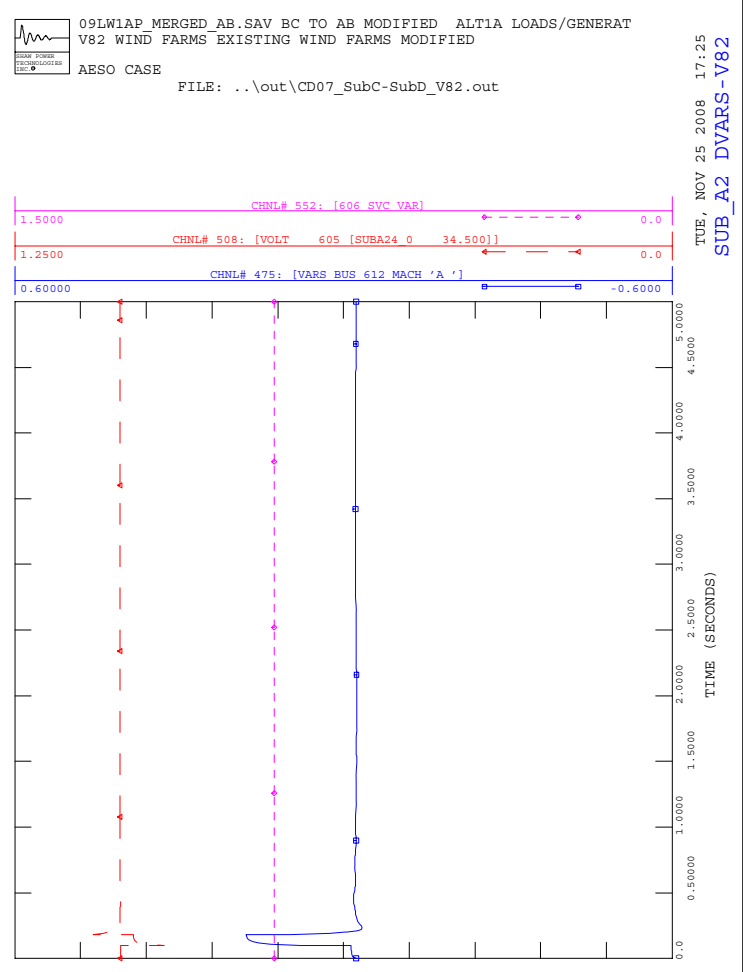
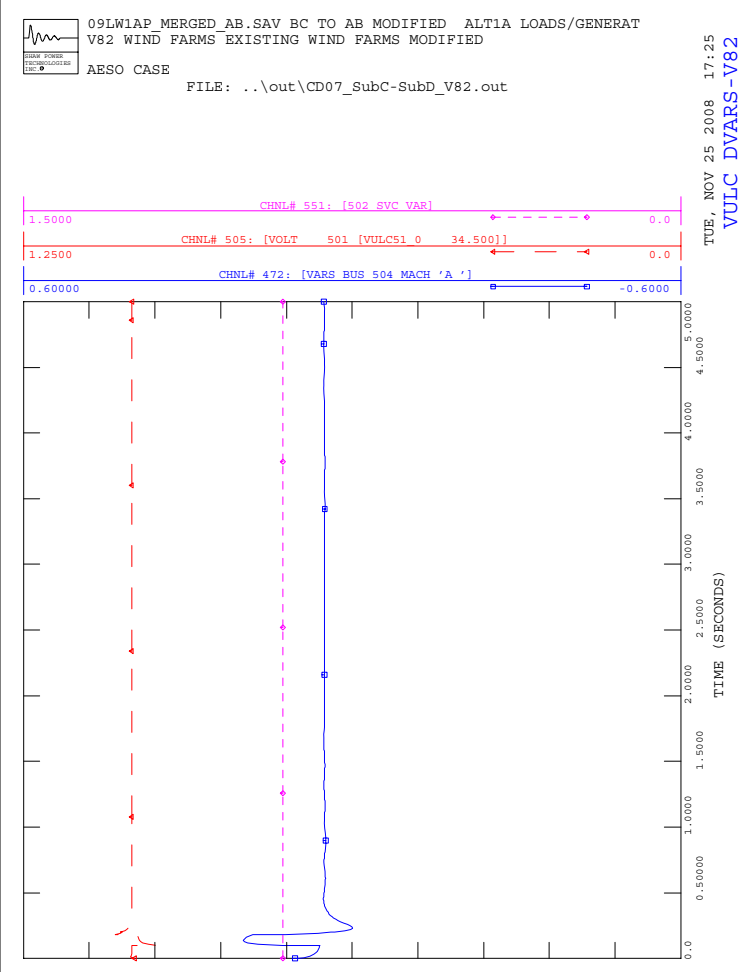
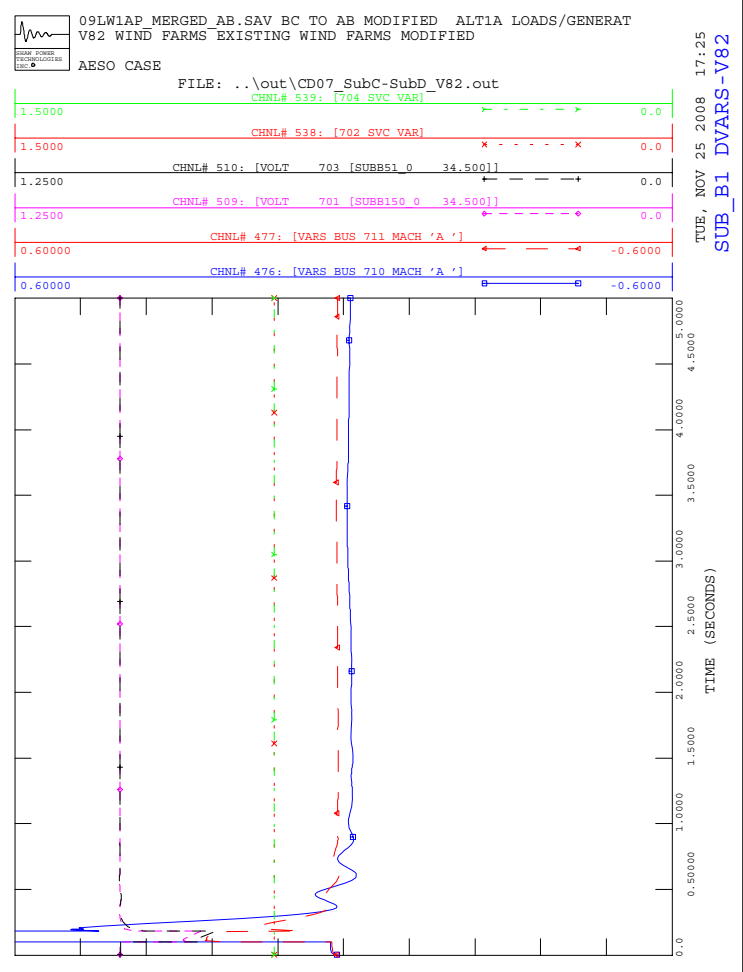
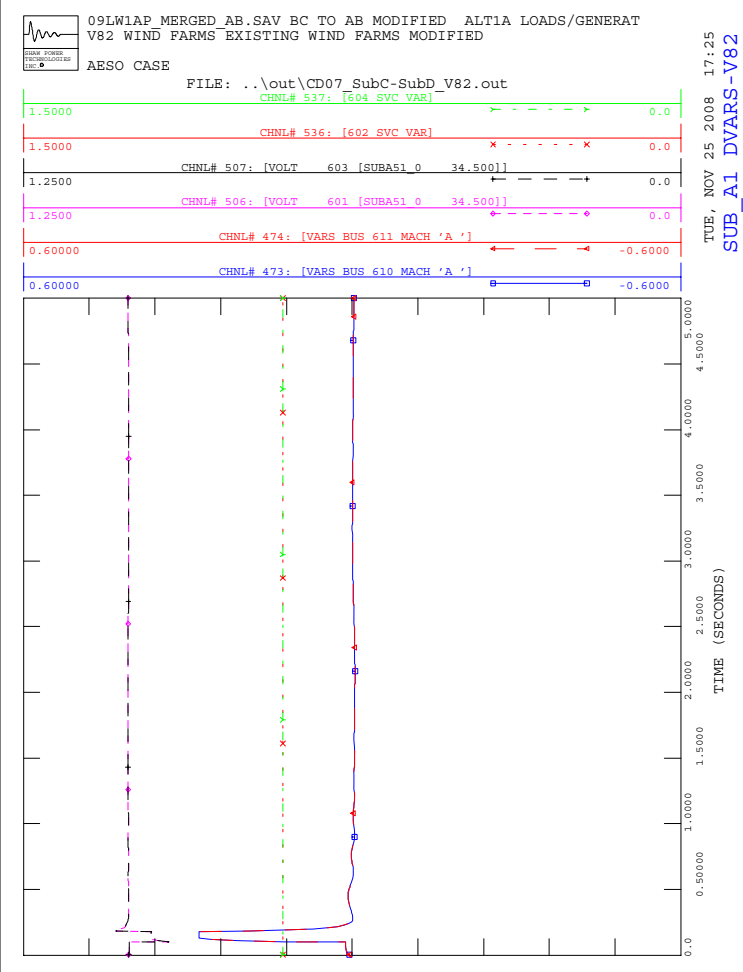


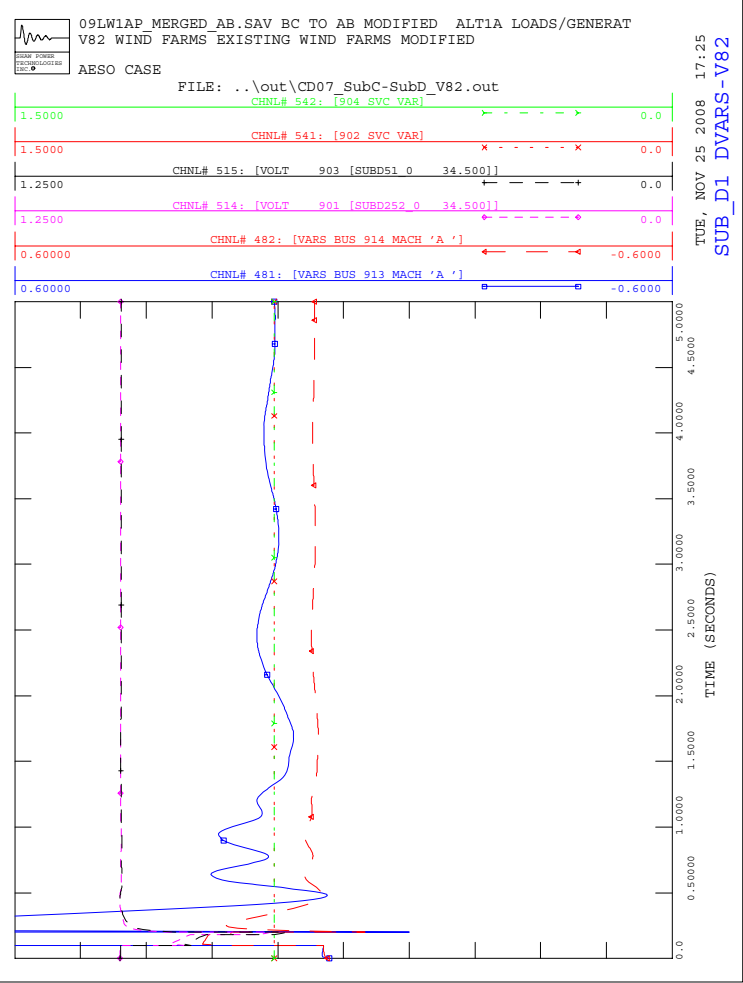
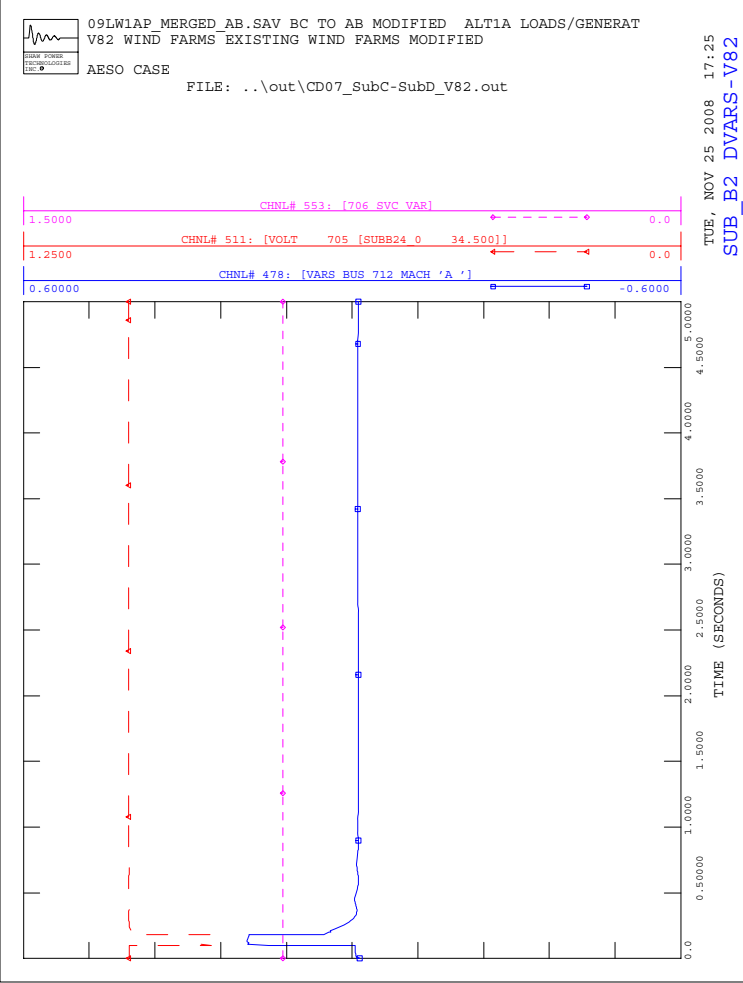
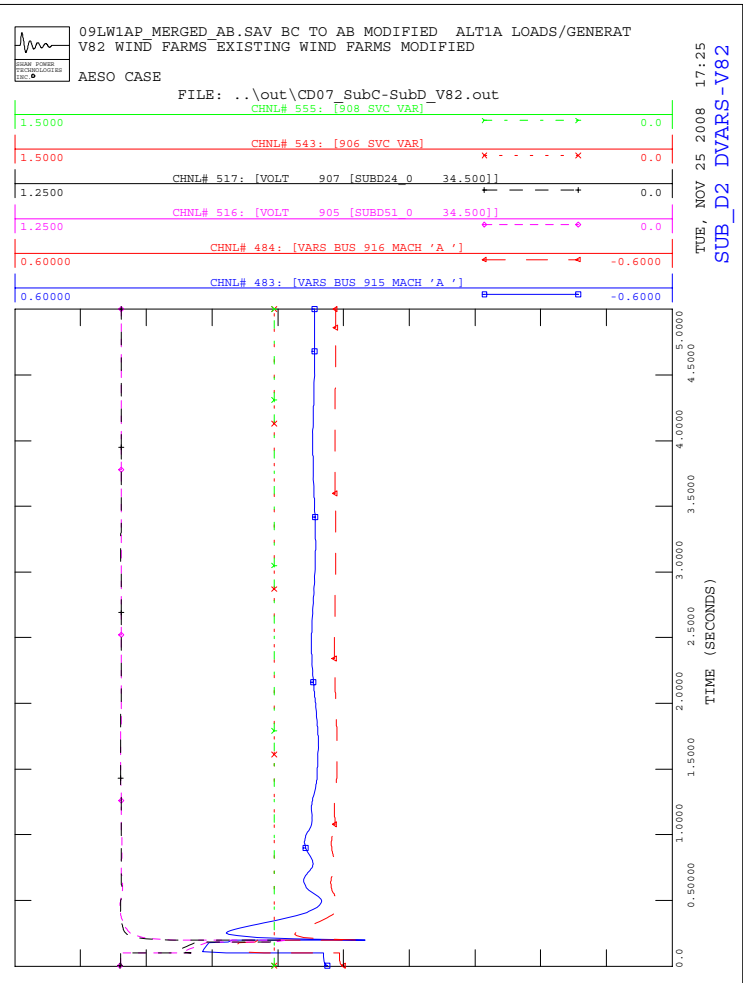
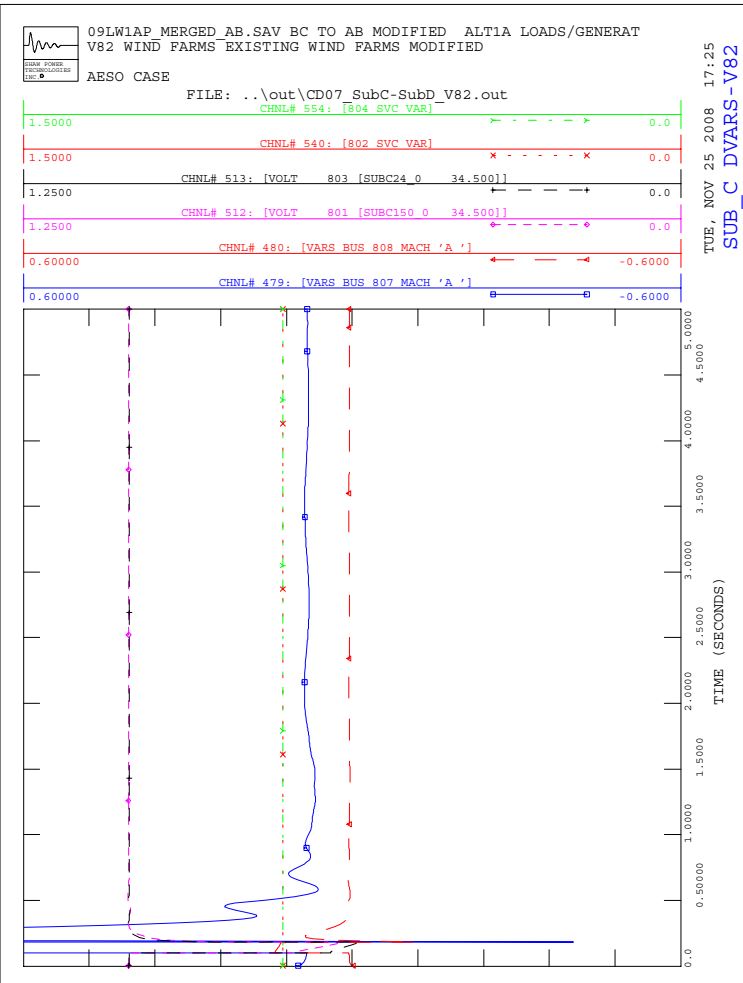


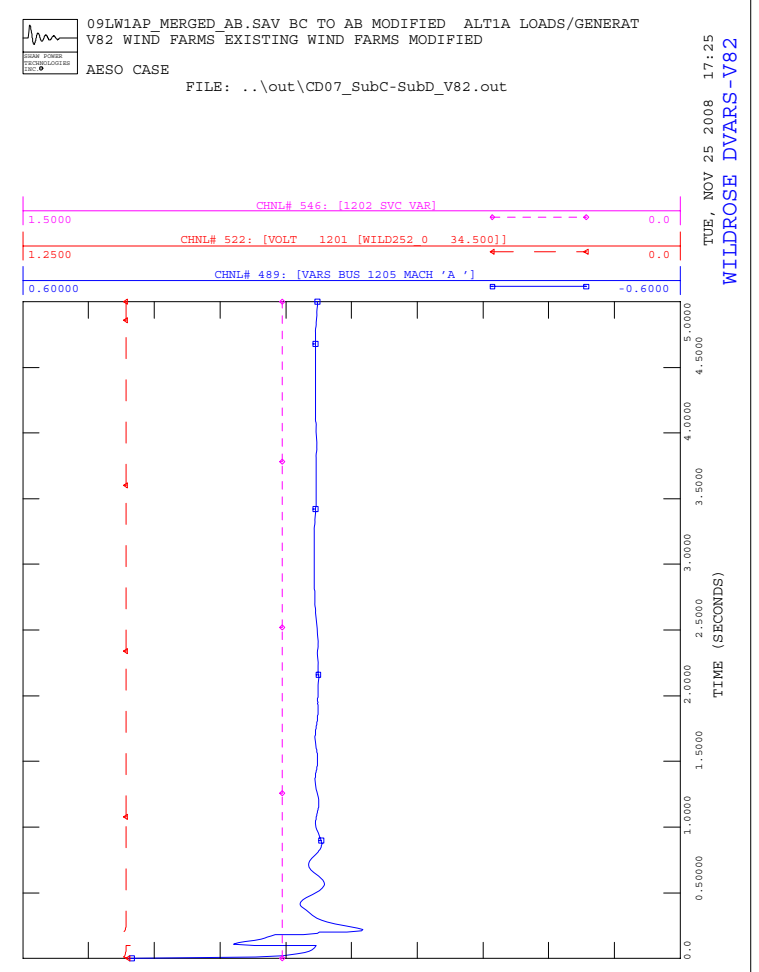
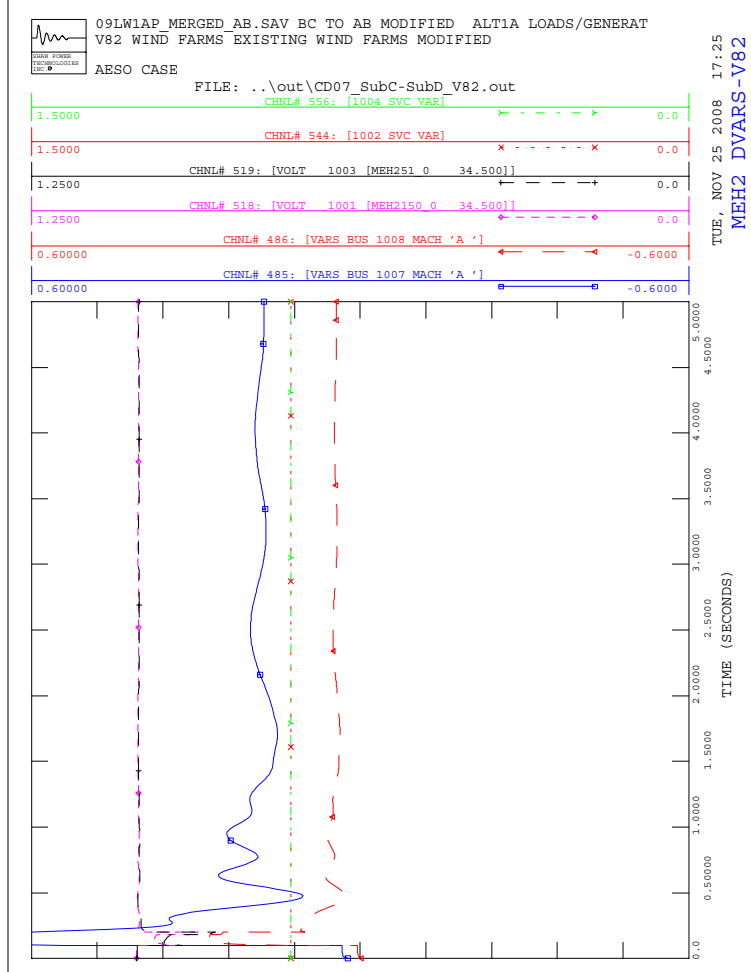
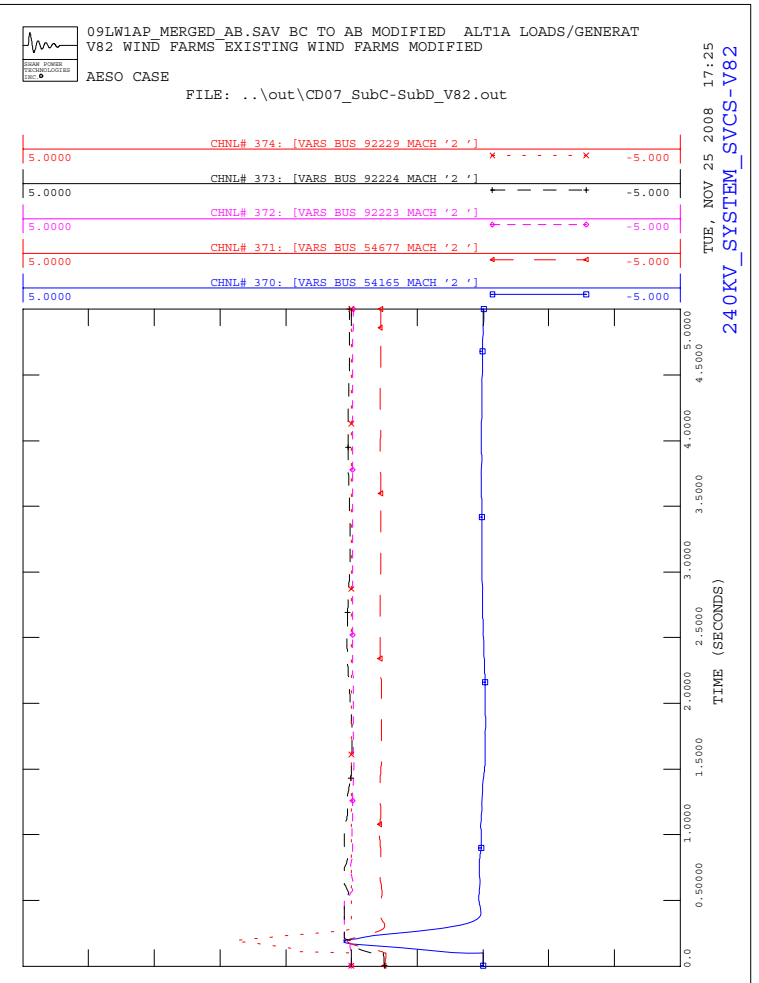
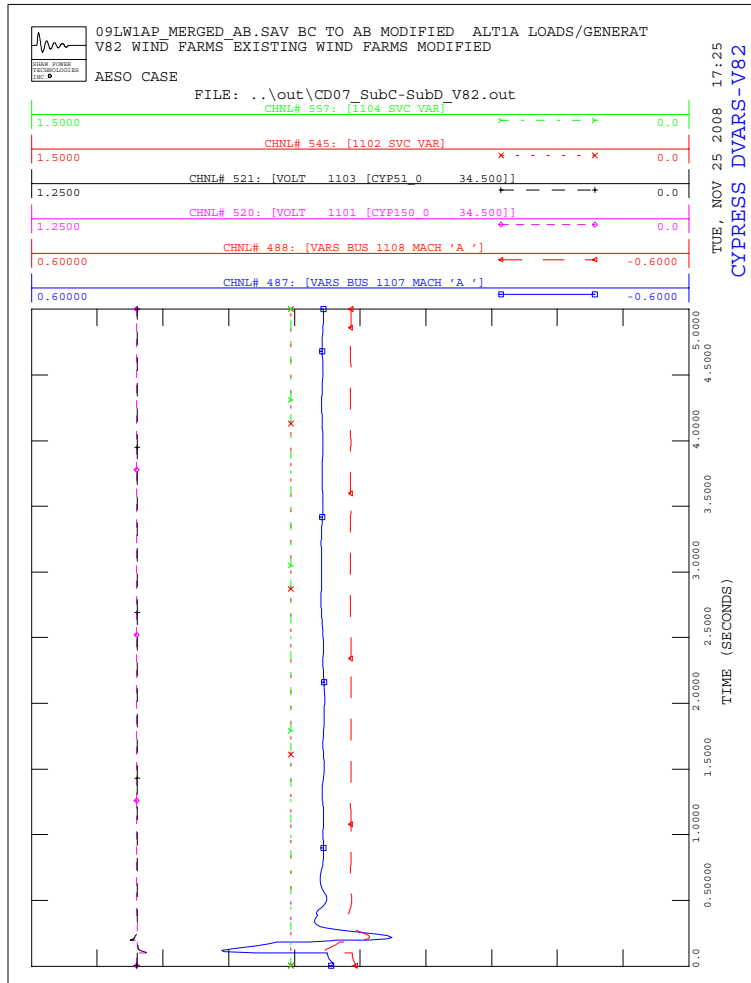












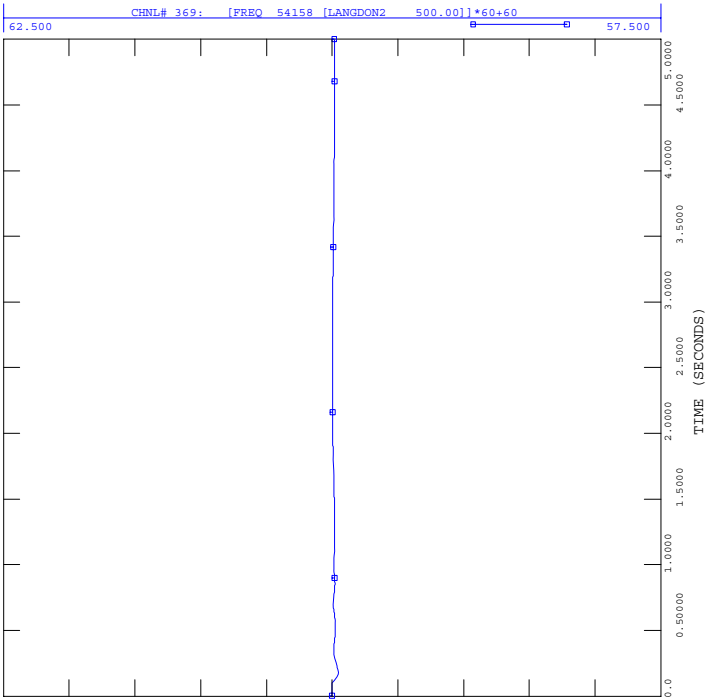


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD07_SubC-SubD_V82.out

TUE, NOV 25 2008 17:25
LANGDON_FRQ-V82

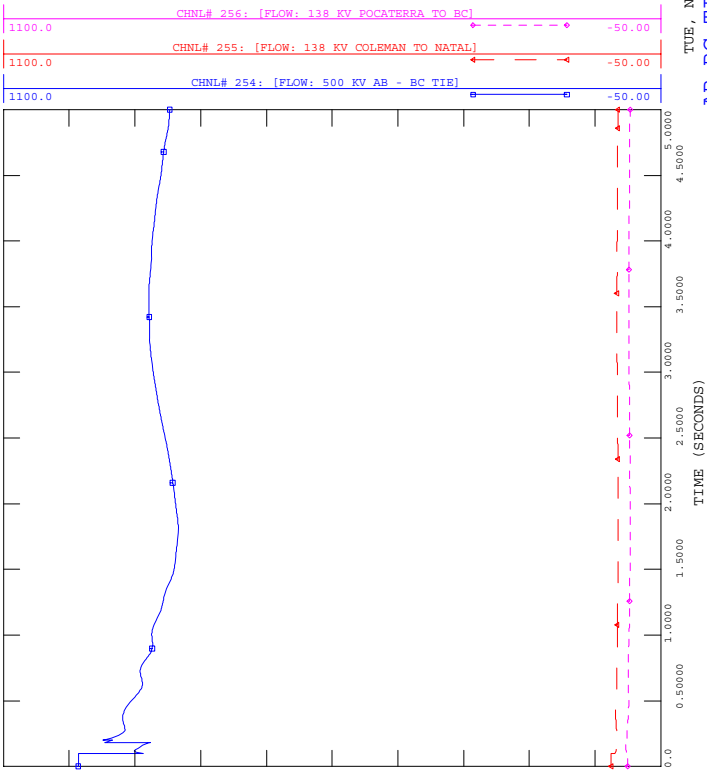


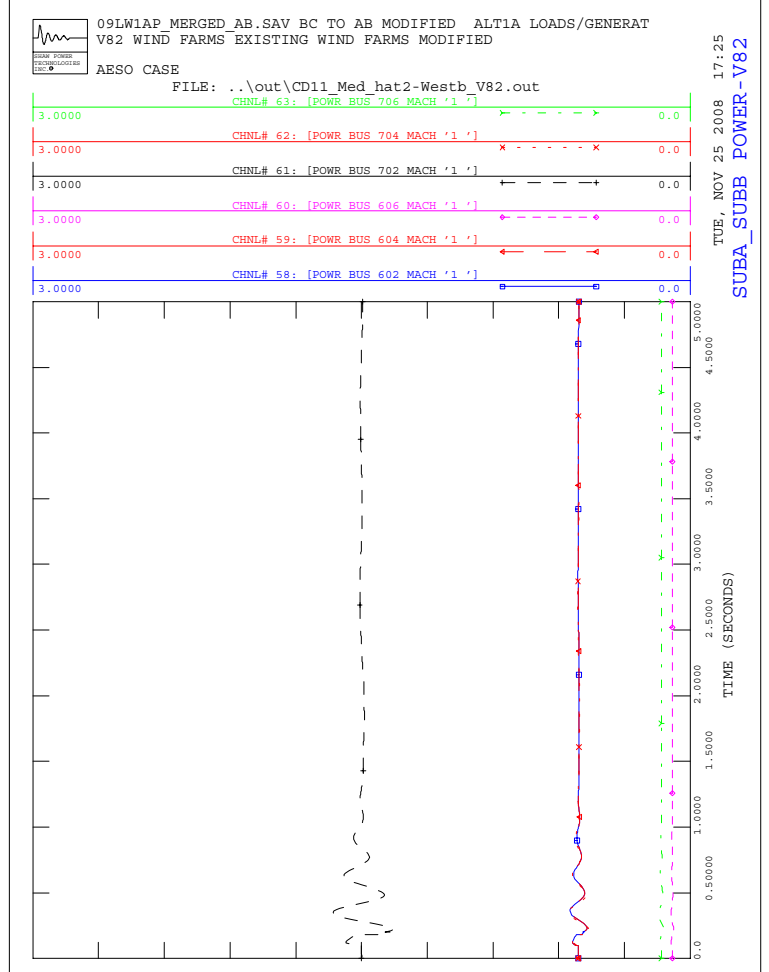
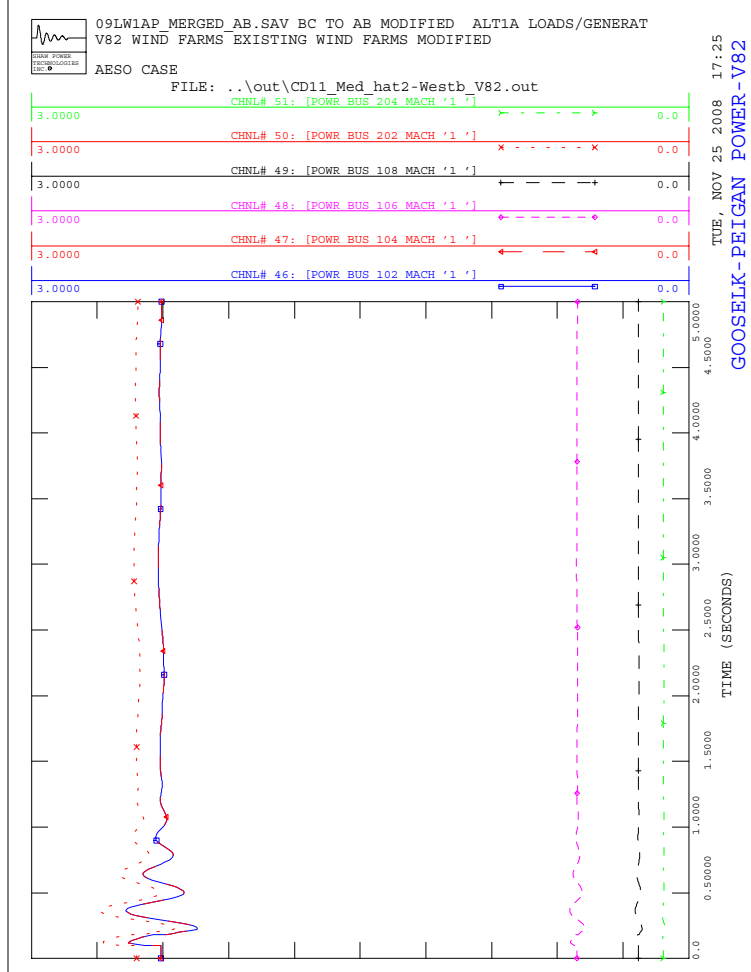
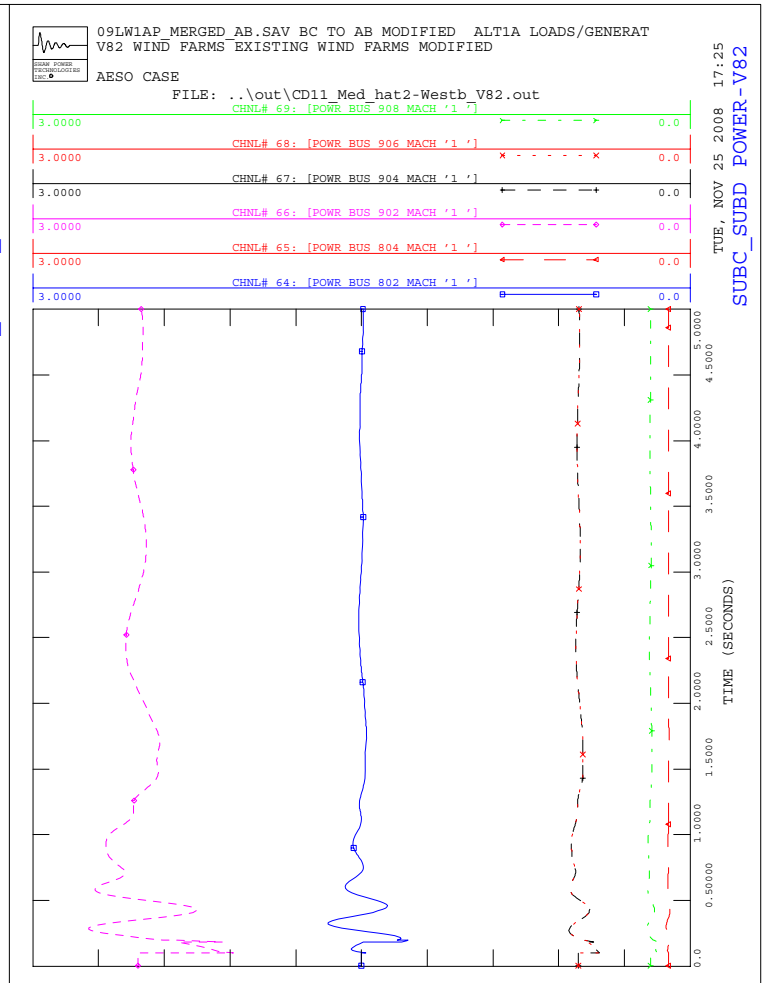
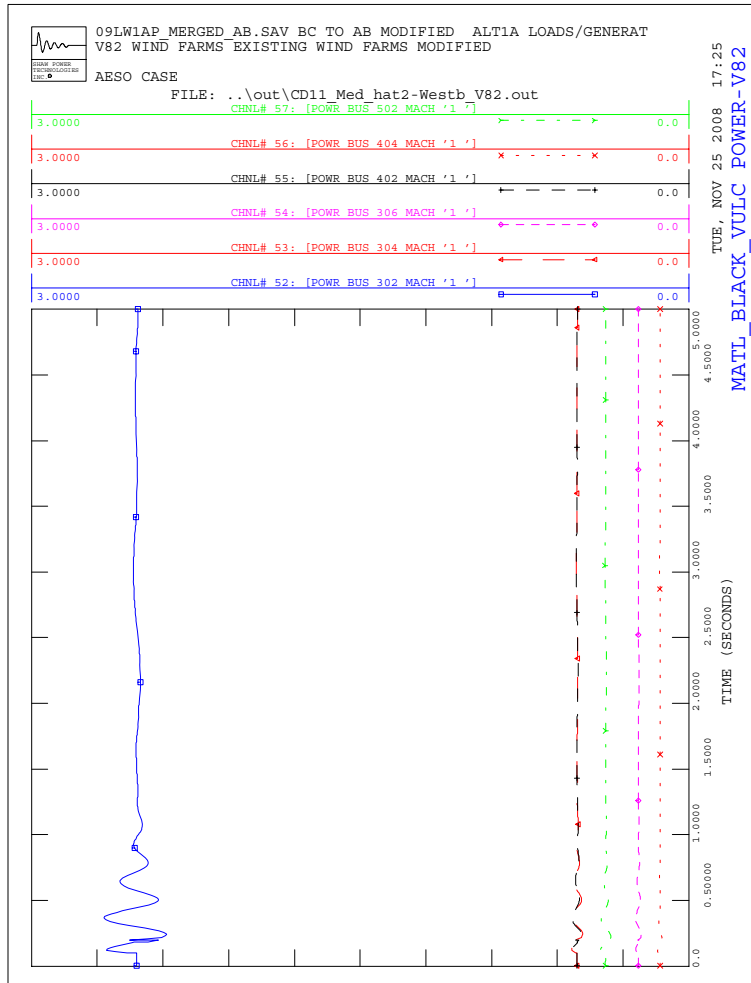
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

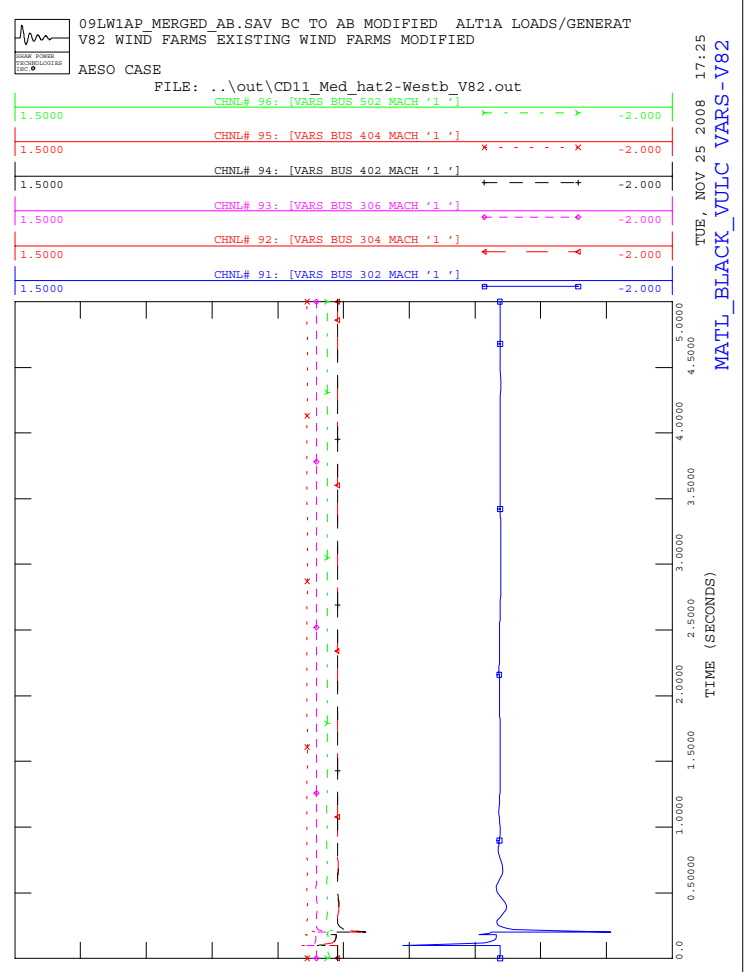
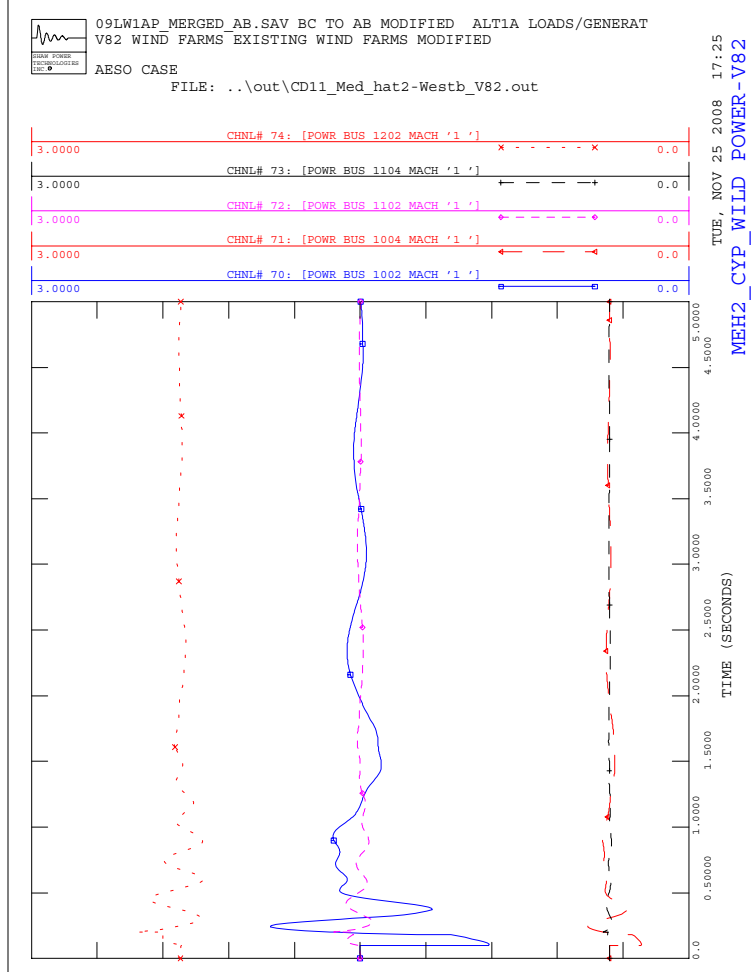
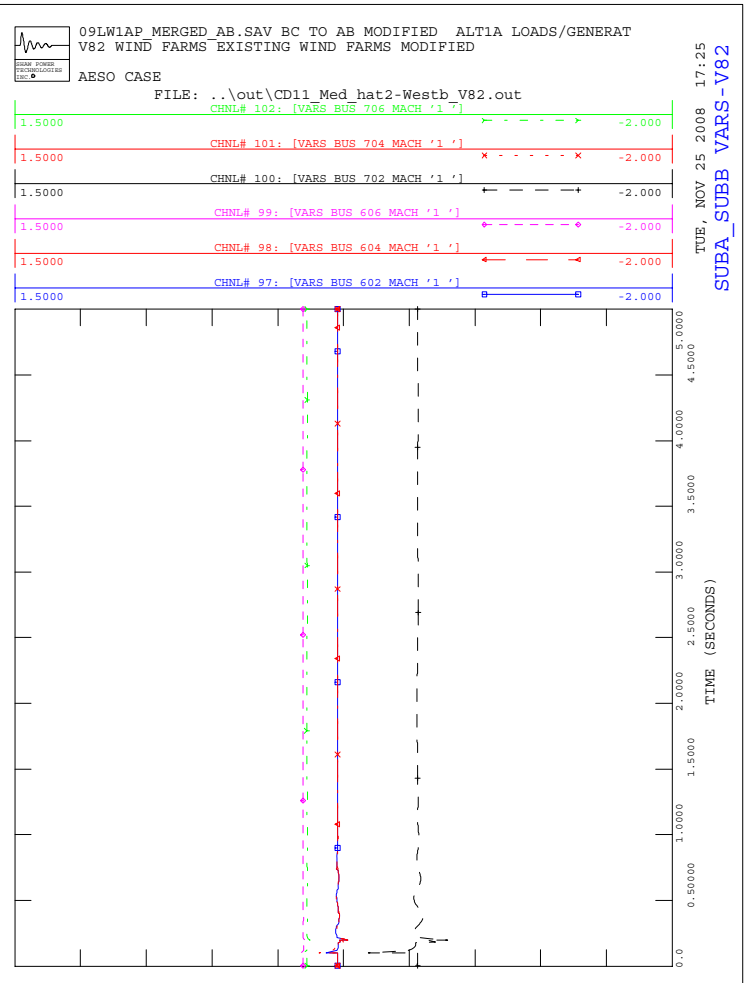
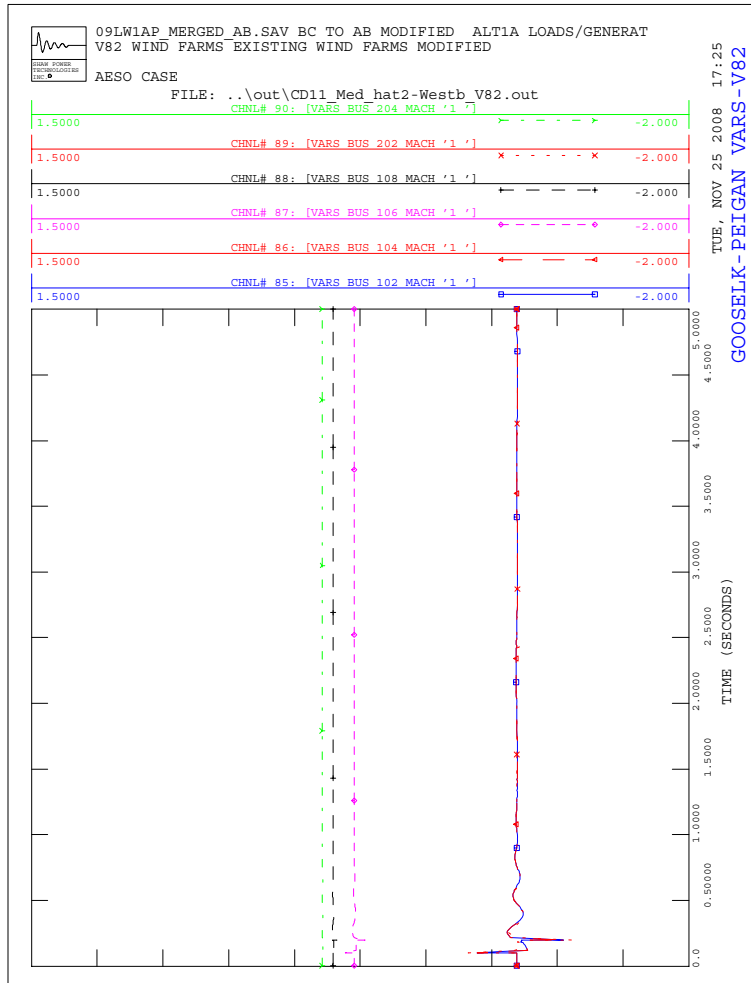
ABSO CASE

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TUE, NOV 25 2008 17:25
AB_BC_TIE_FLOWS-V82

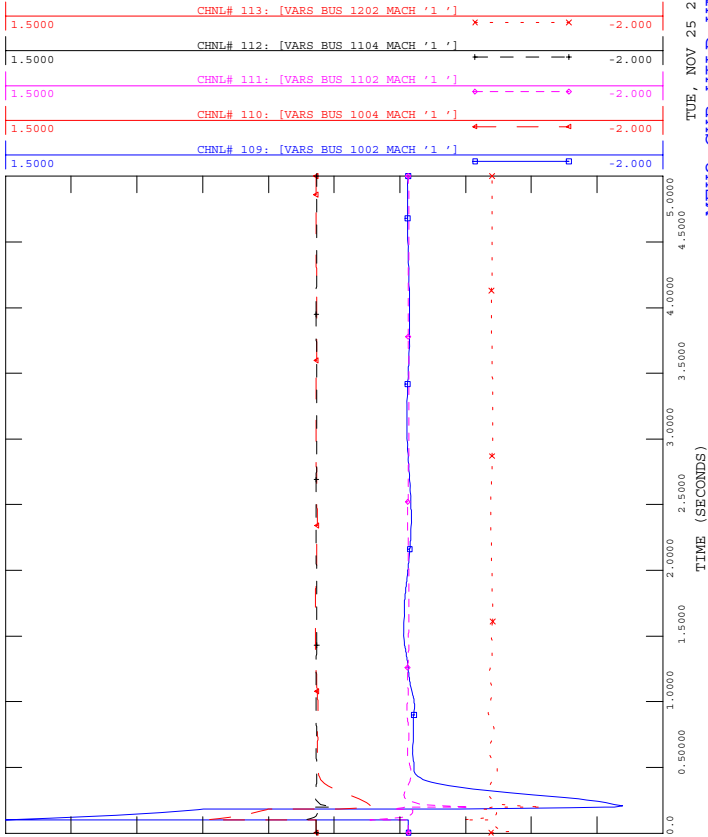






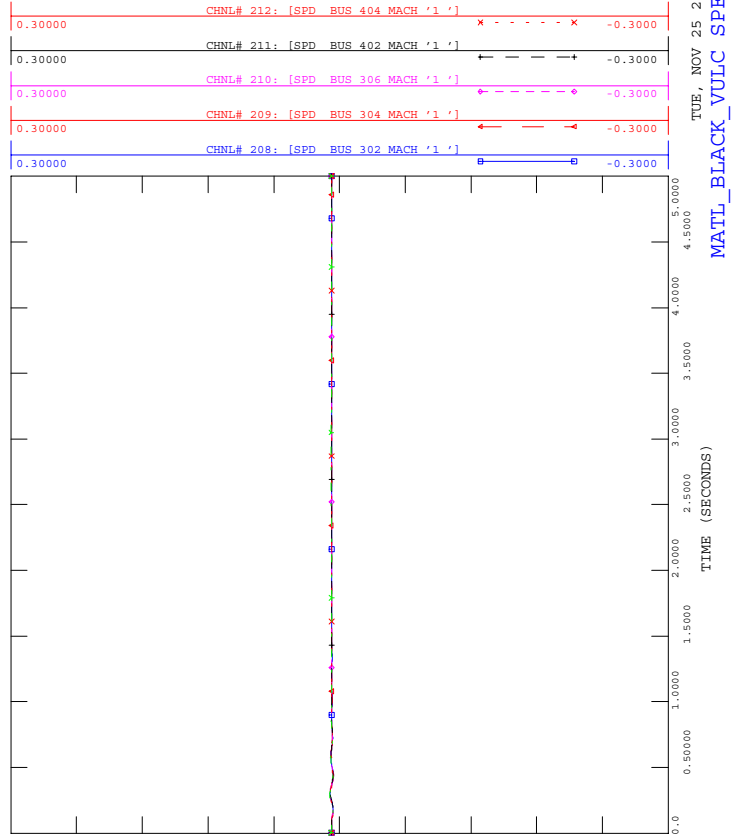
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

FILE: ..\out\CD11_Med_hat2-Westb_V82.out



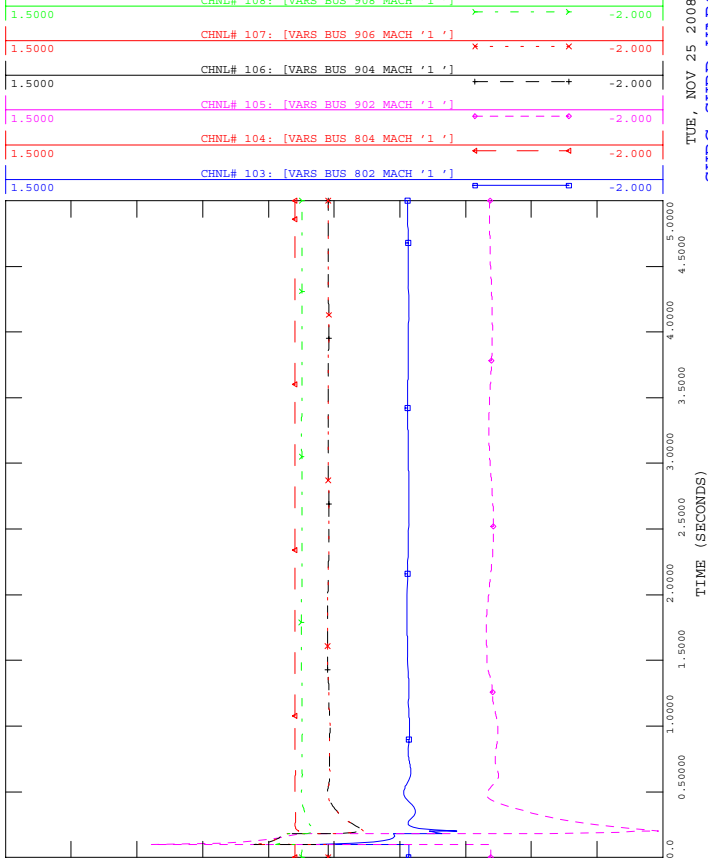
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

FILE: ..\out\CD11_Med_hat2-Westb_V82.out



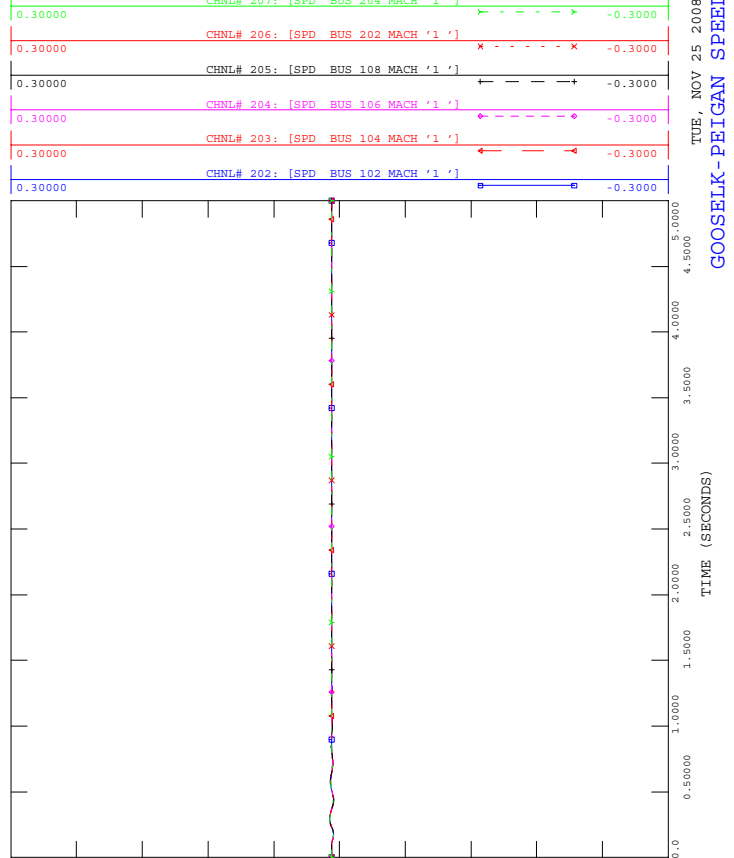
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

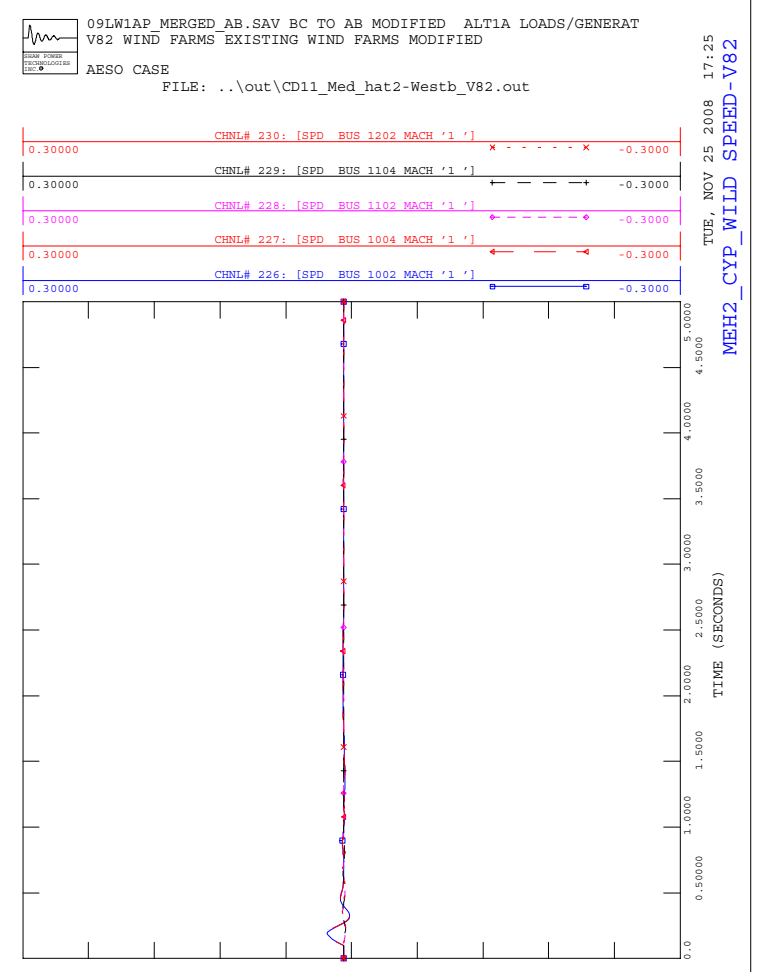
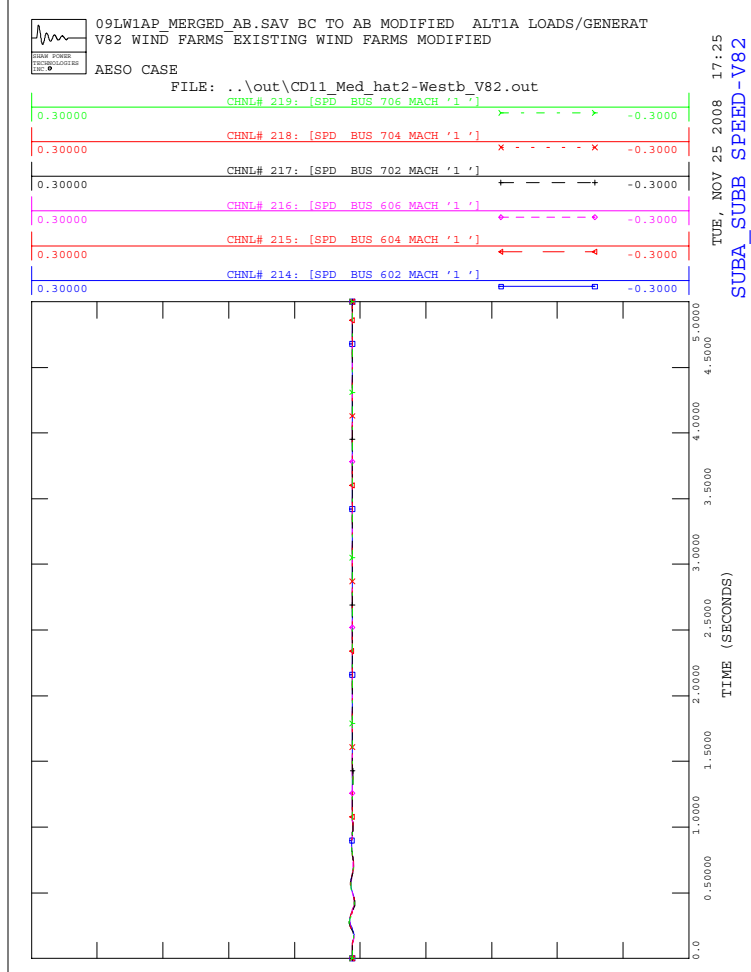
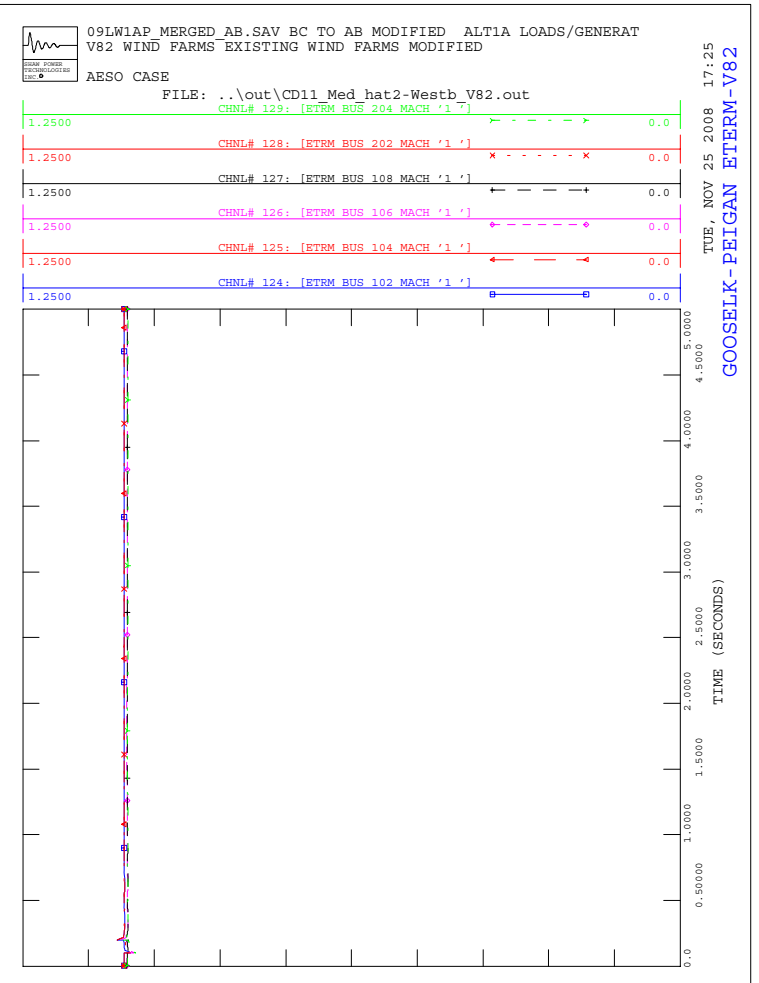
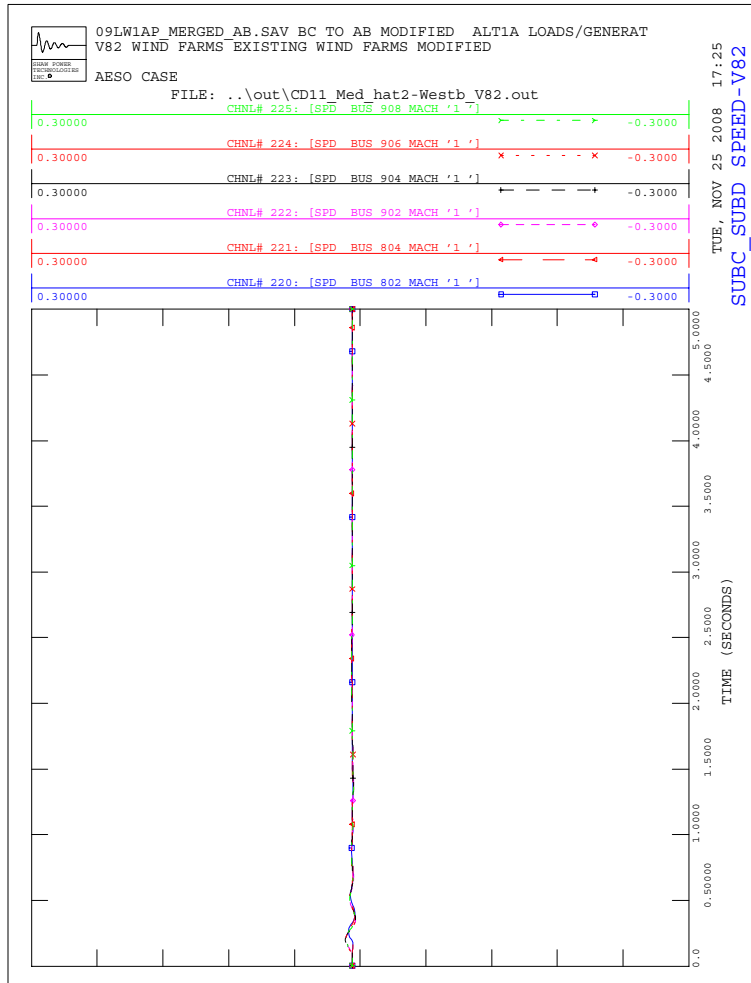
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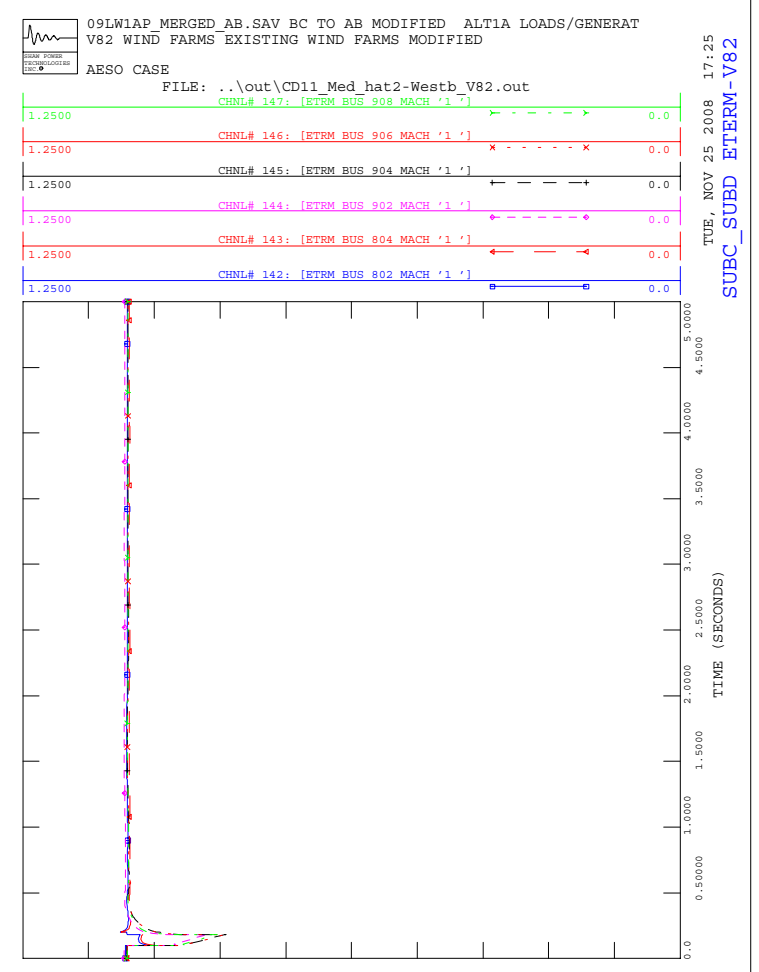
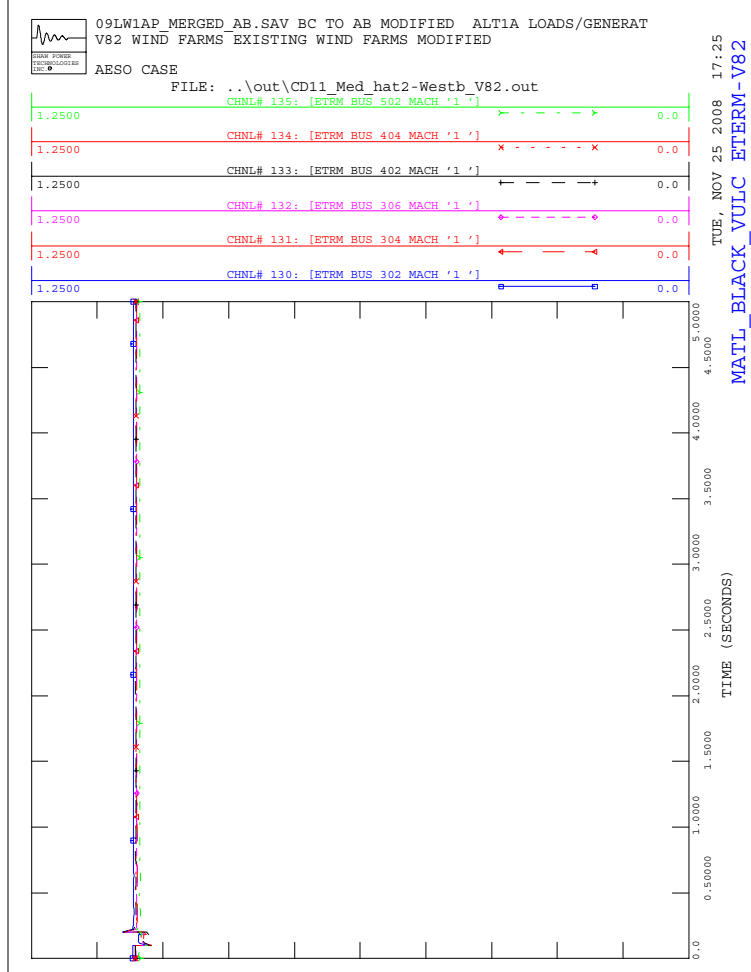
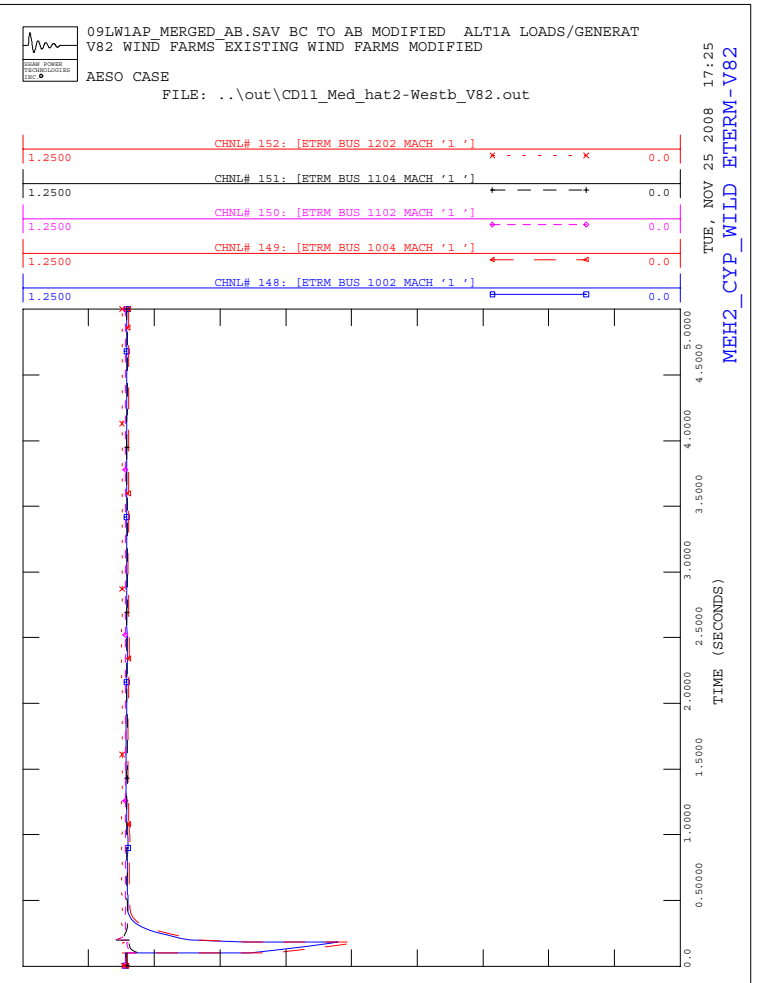
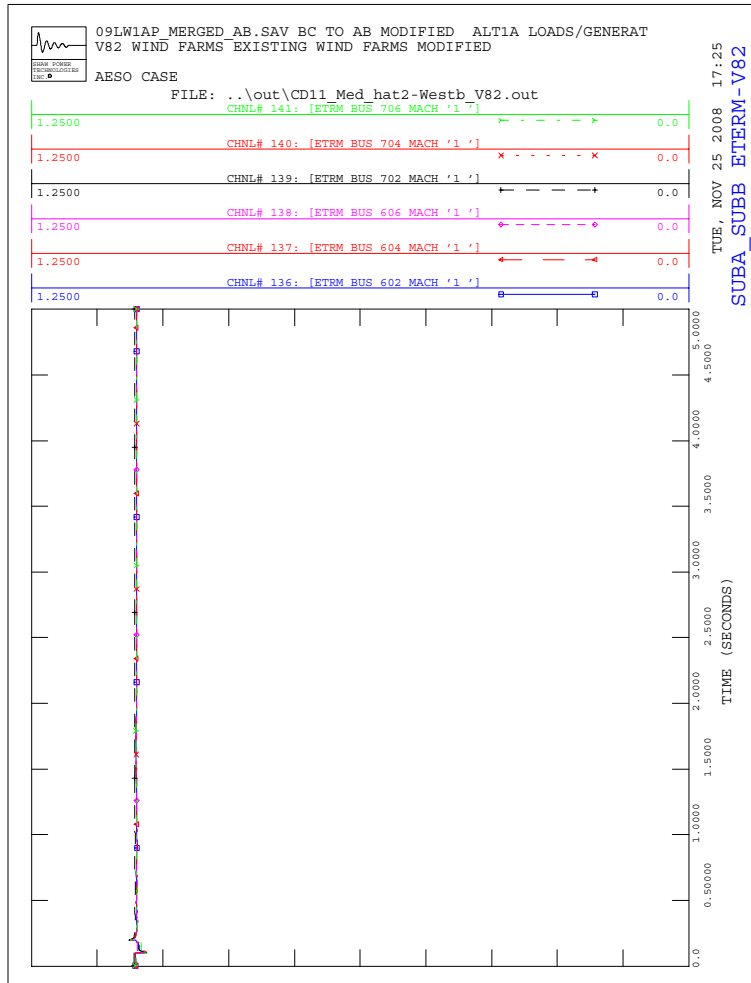


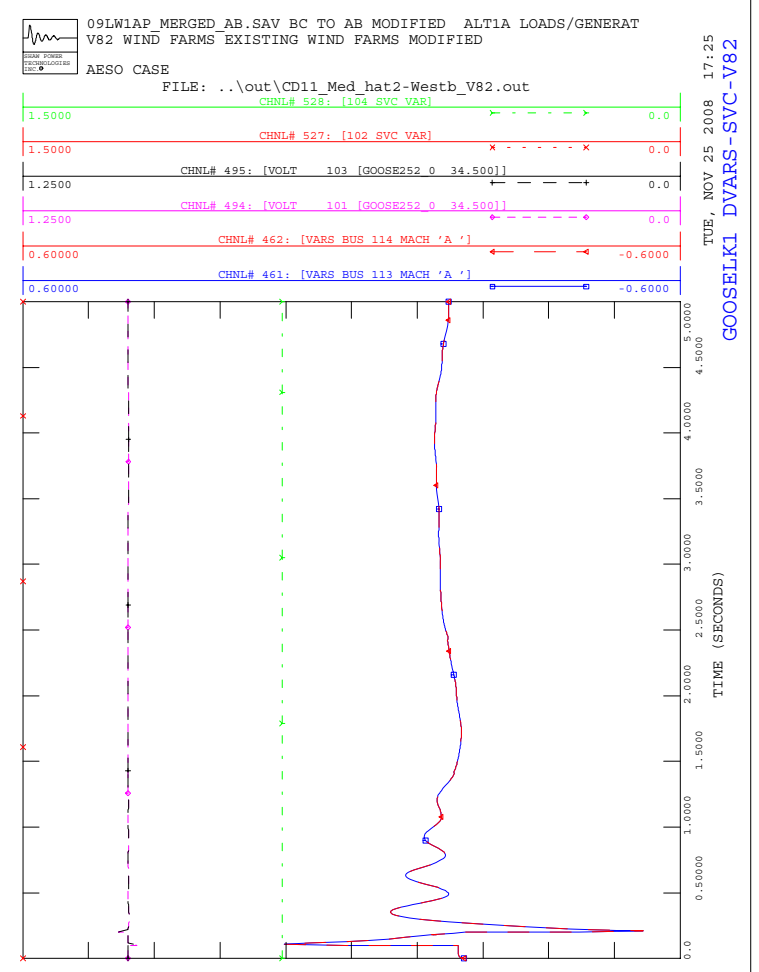
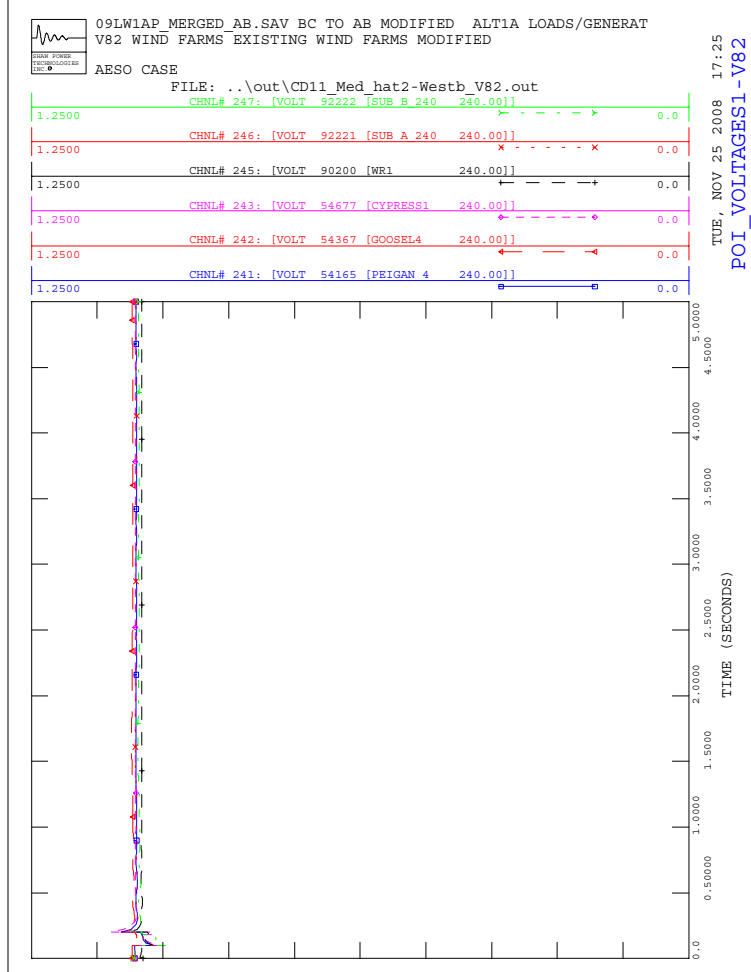
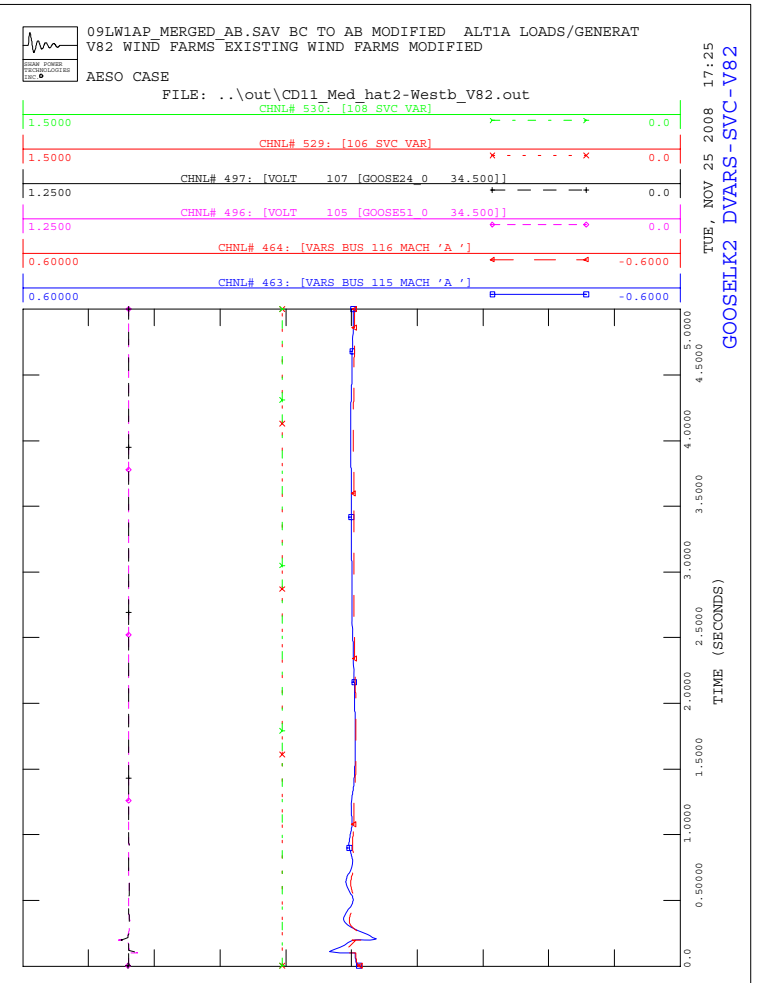
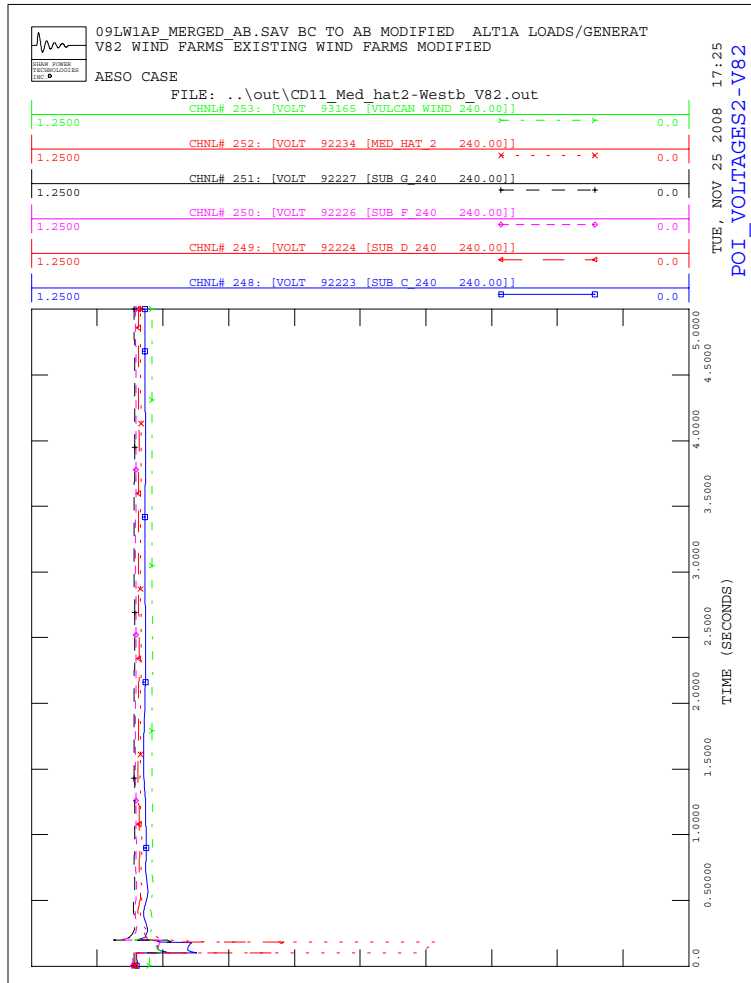
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

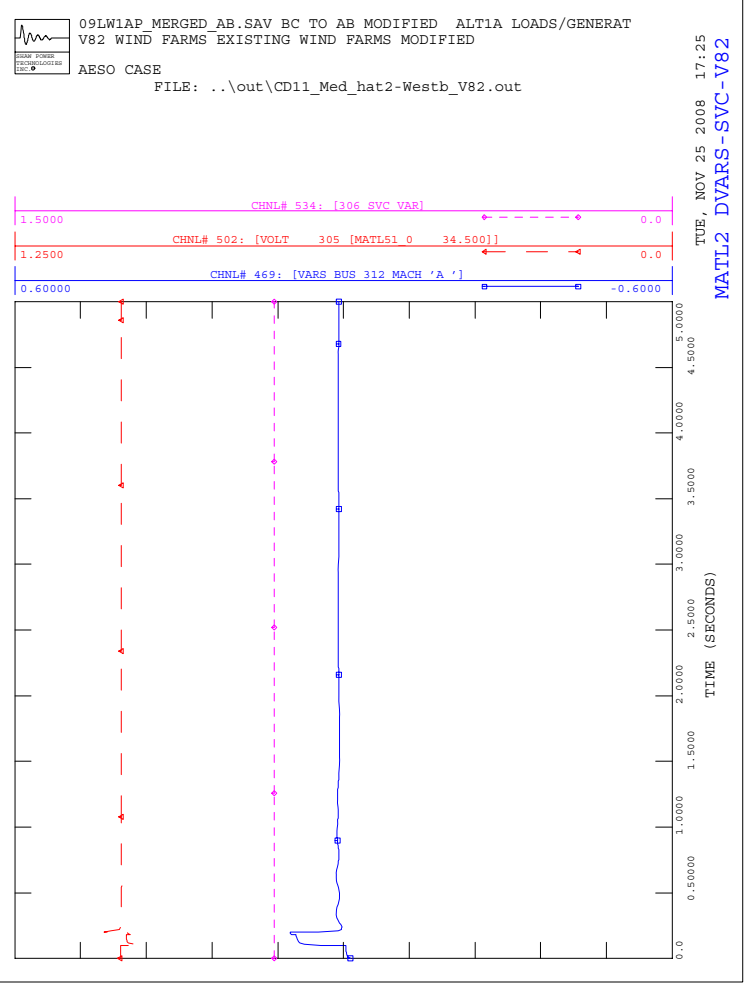
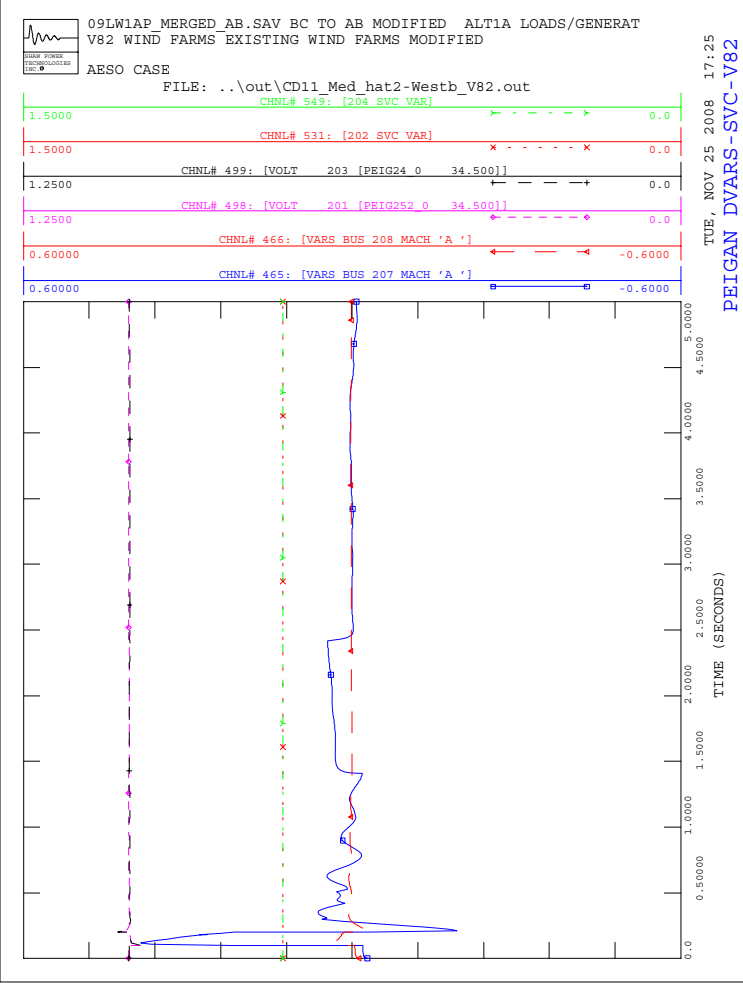
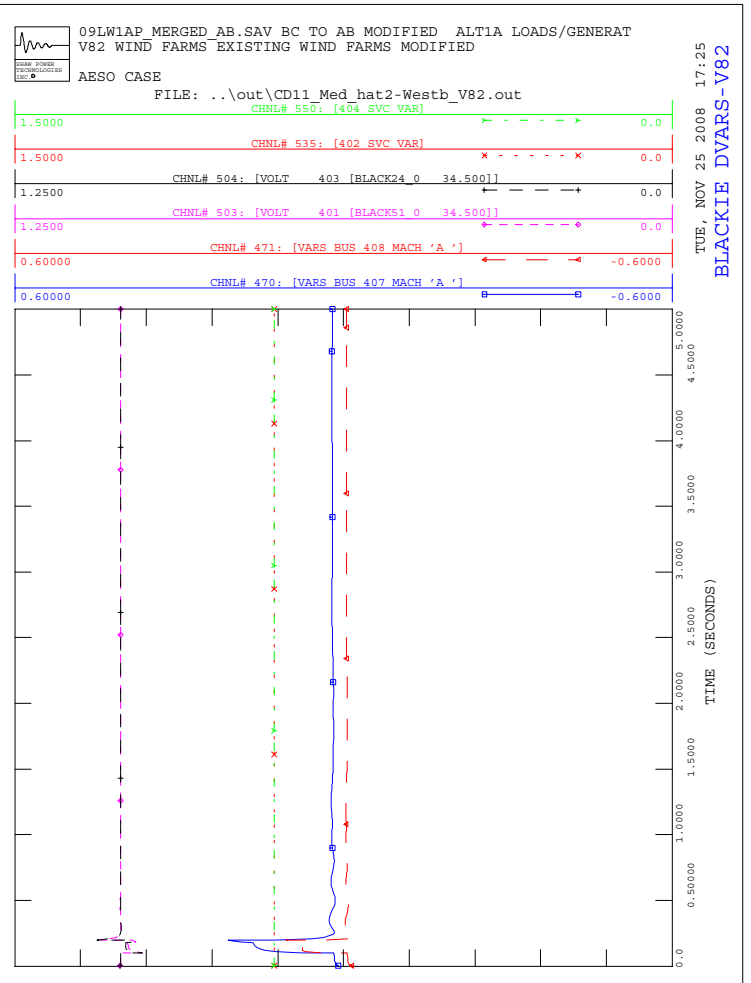
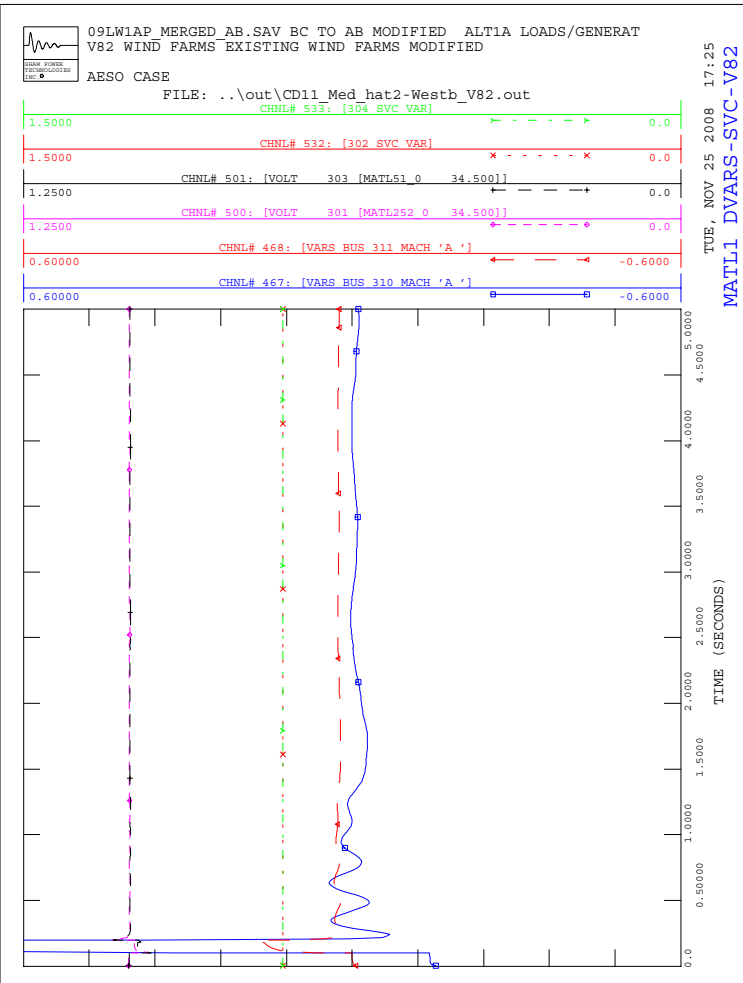
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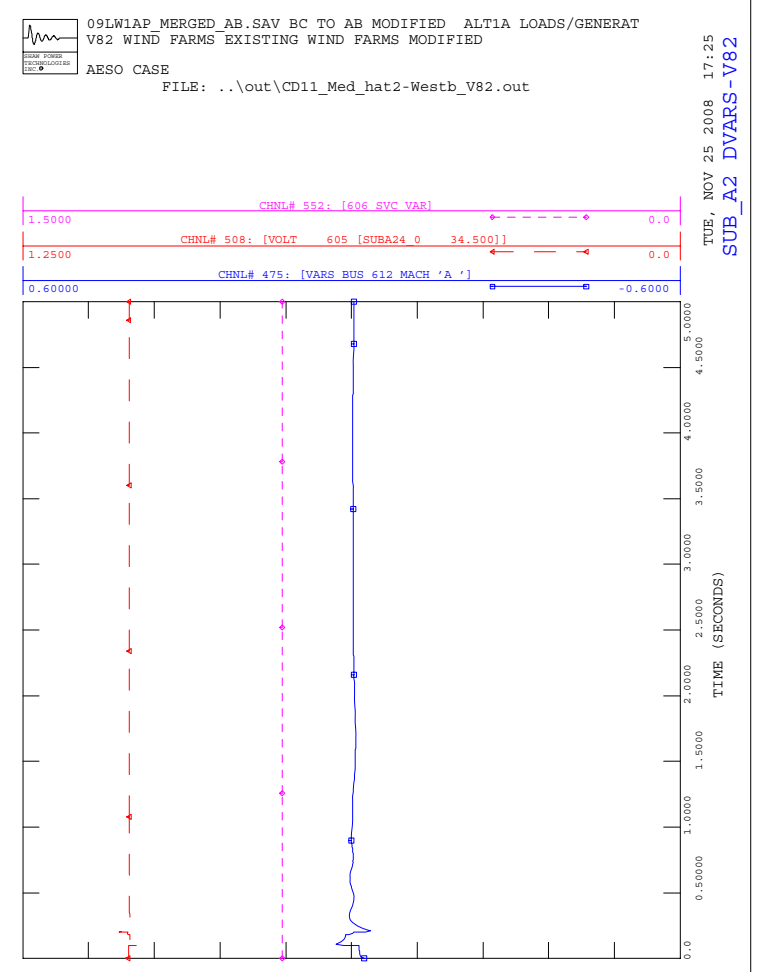
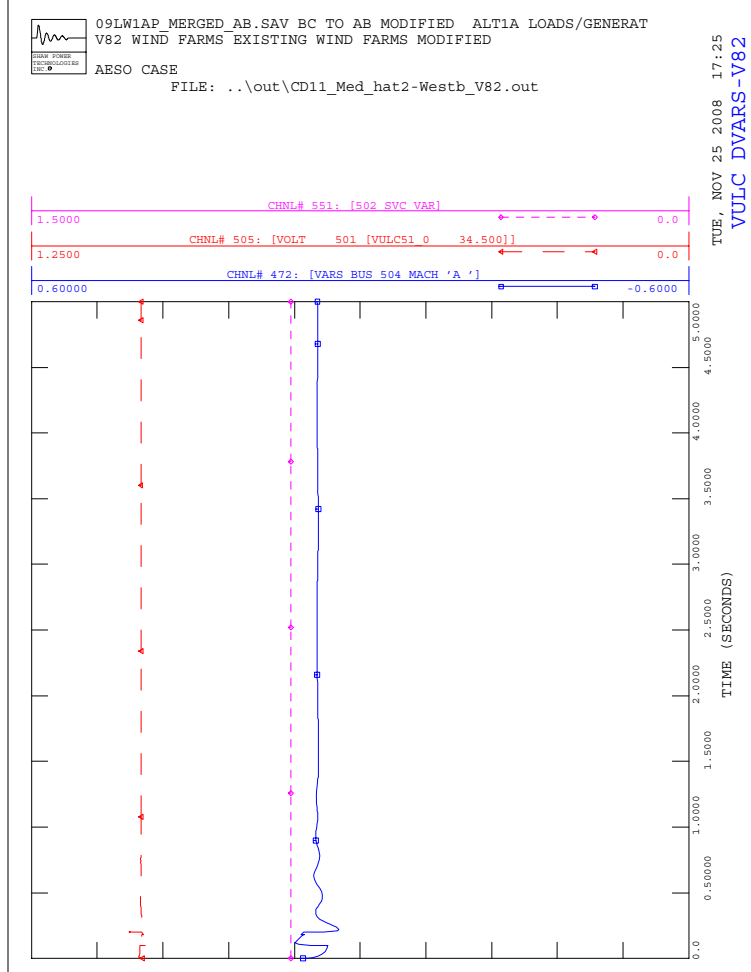
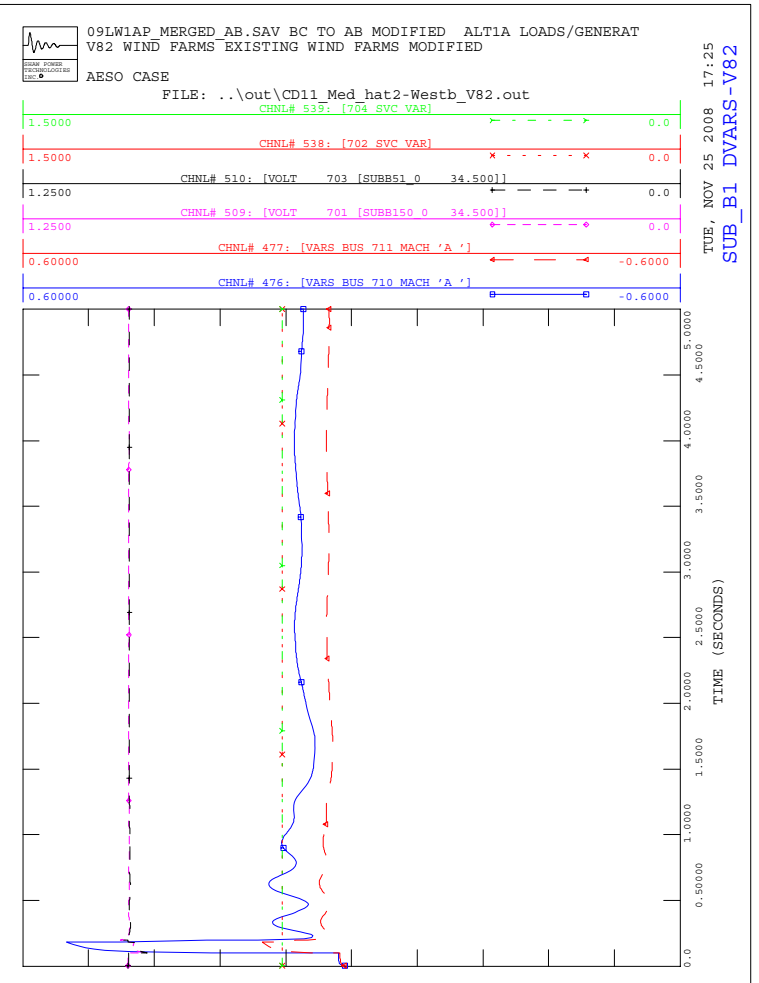
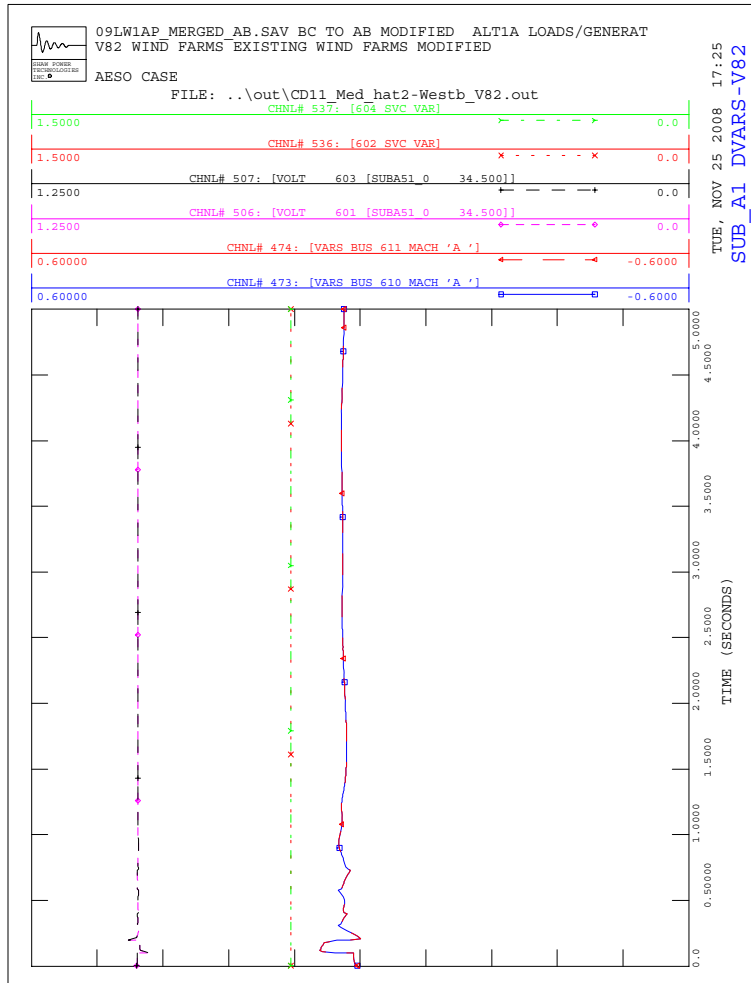


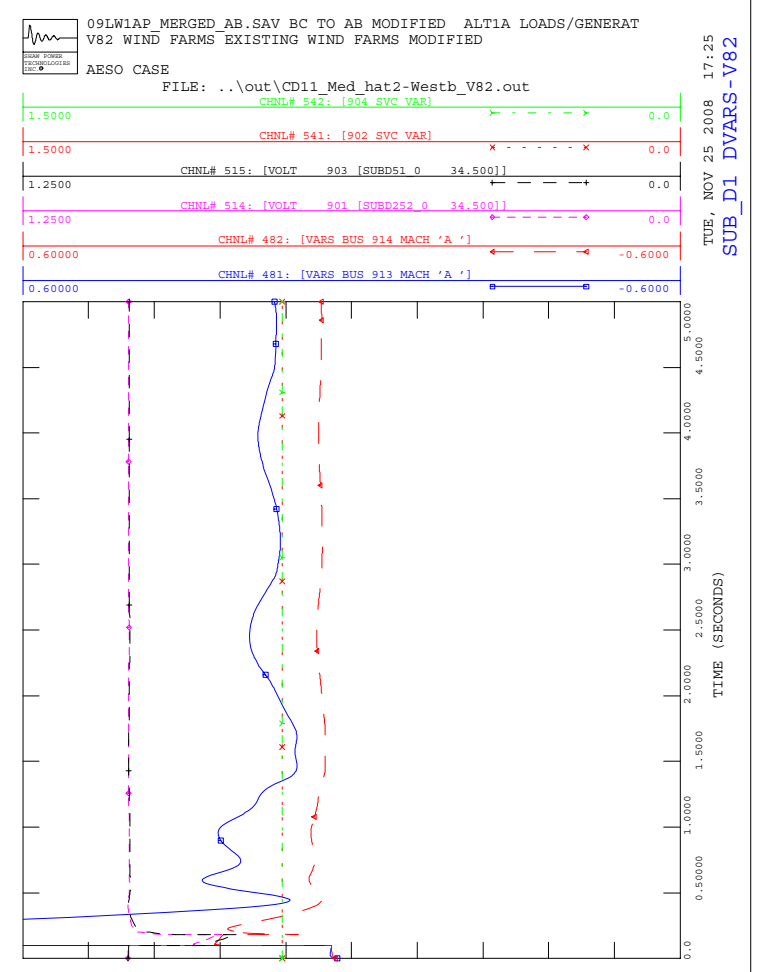
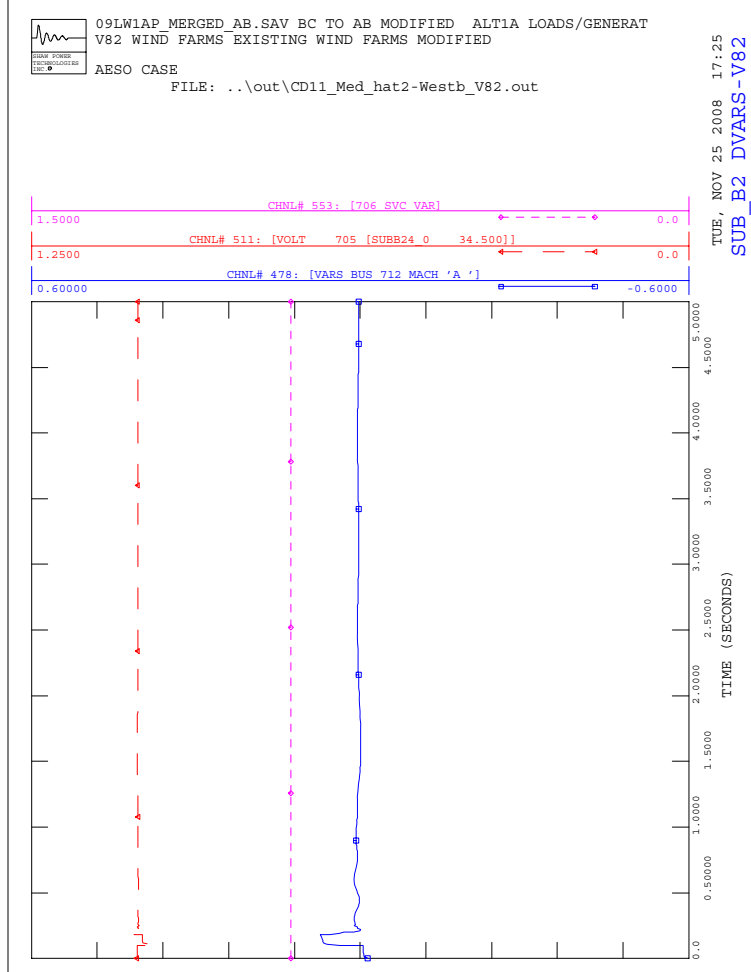
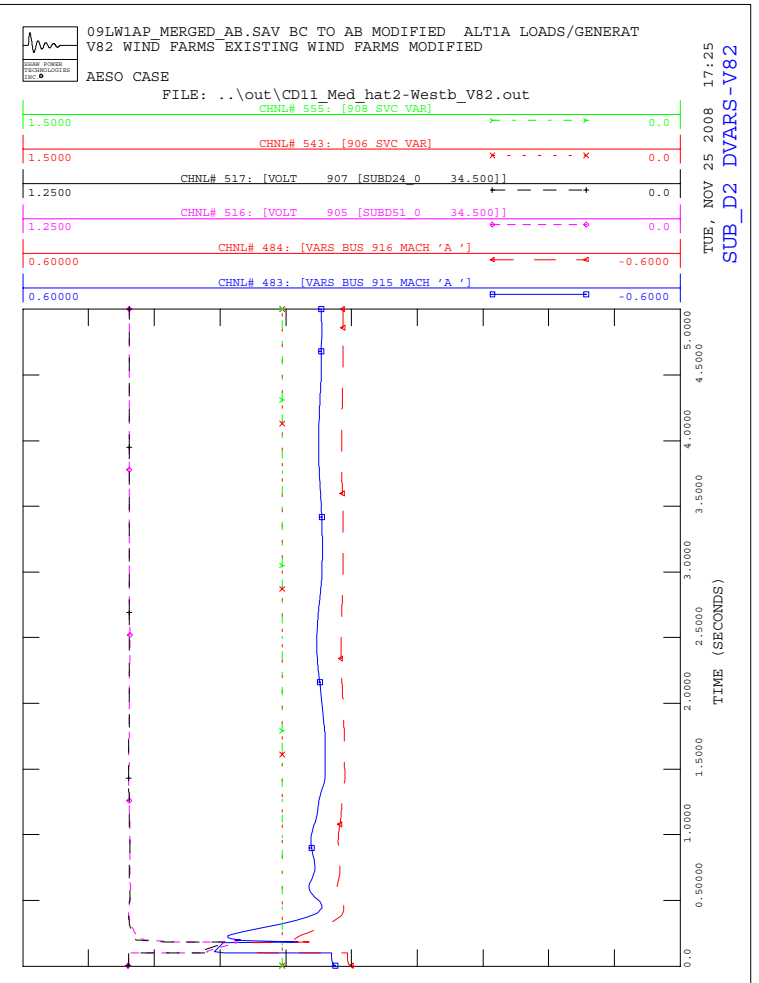
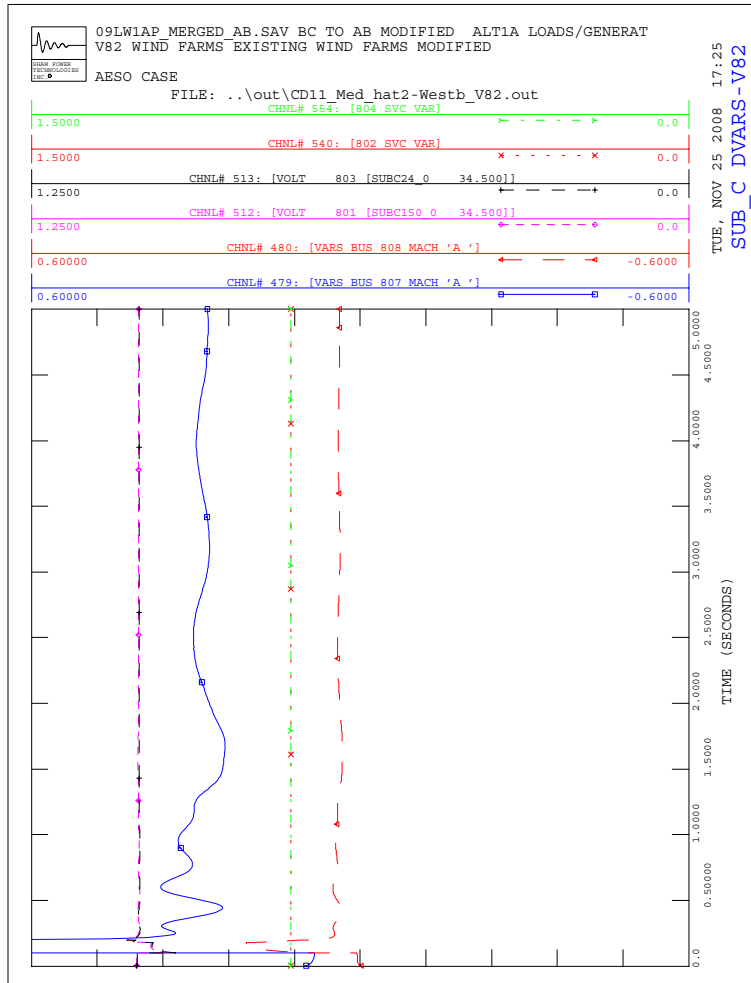


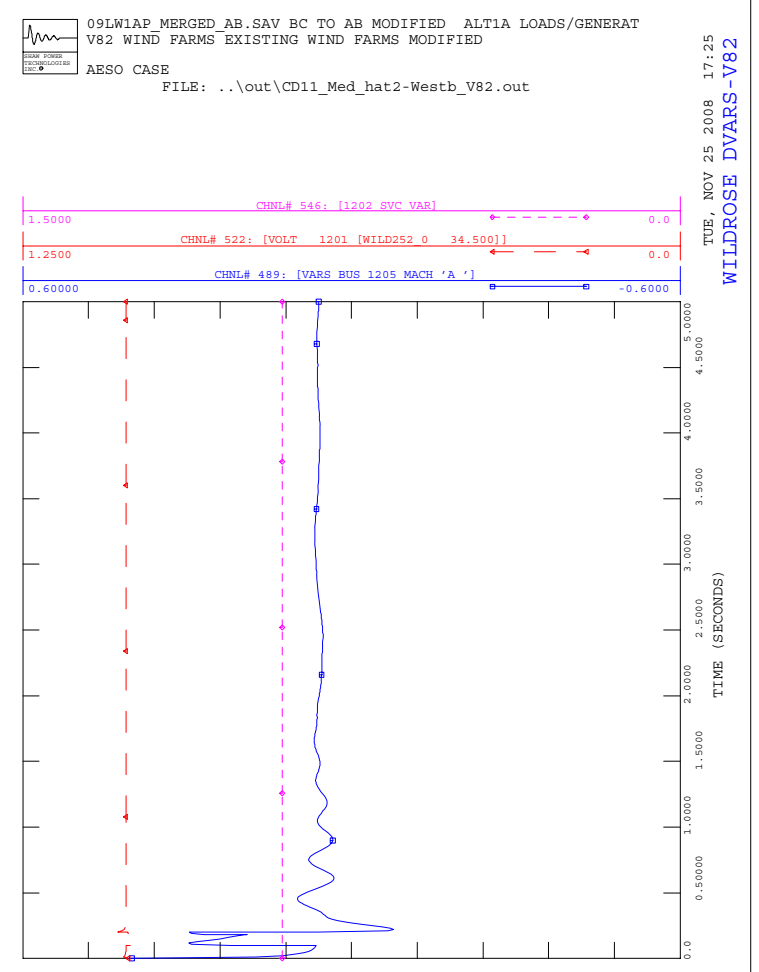
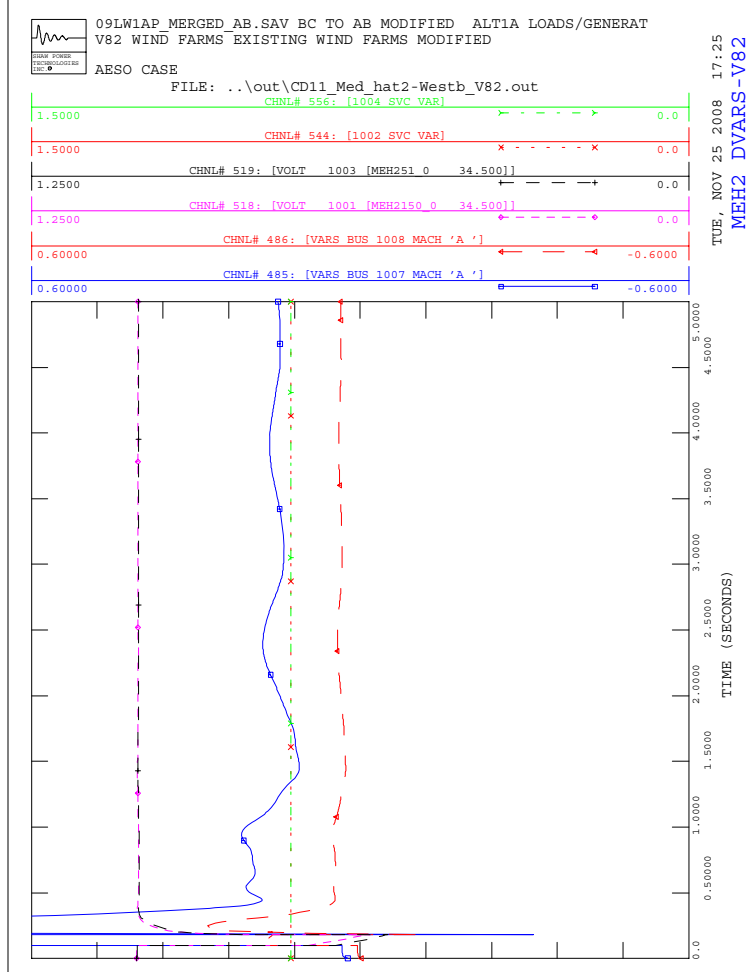
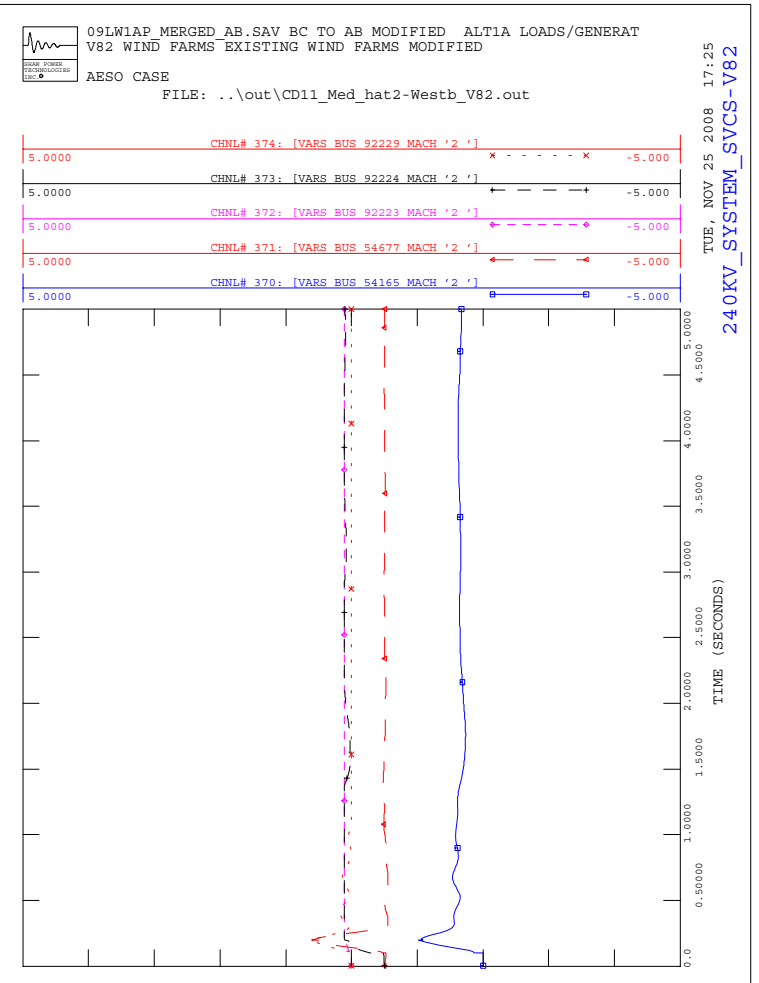
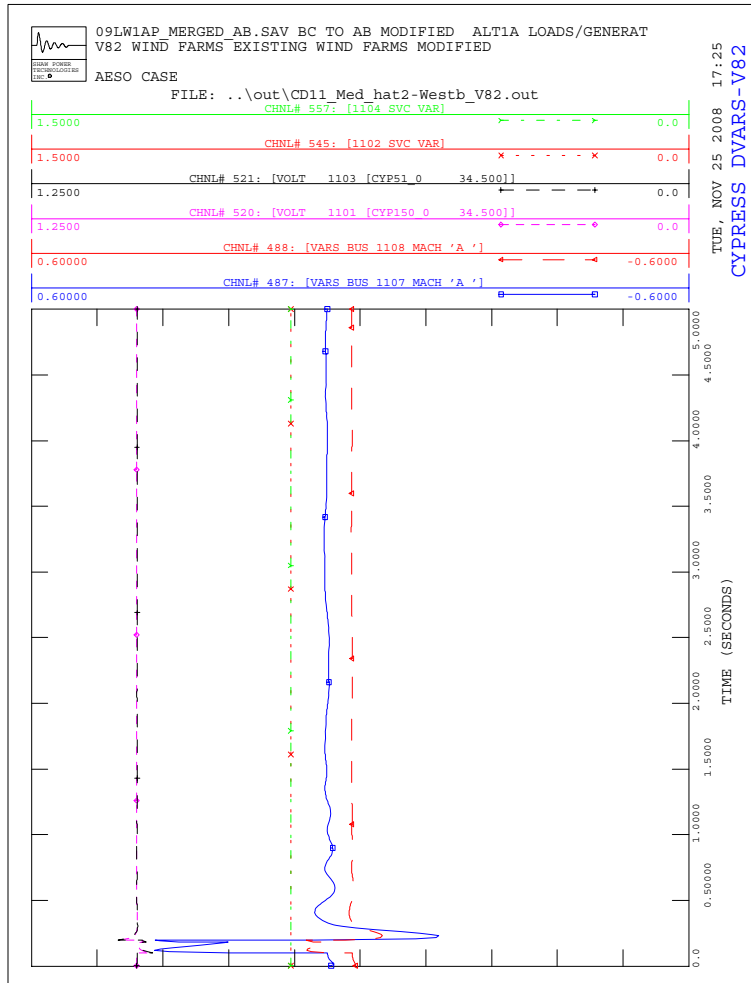












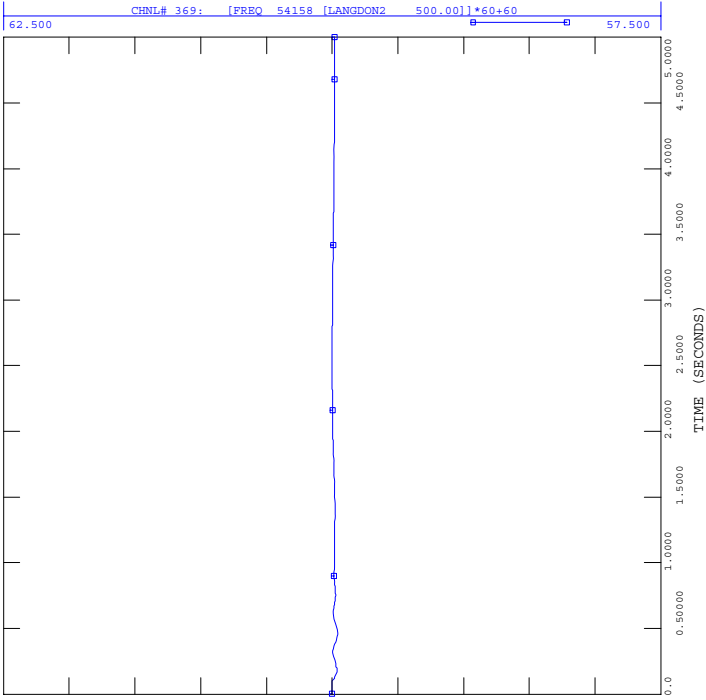


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD11_Med_hat2-Westb_V82.out

TUE, NOV 25 2008 17:25
LANGDON_FRQ-V82

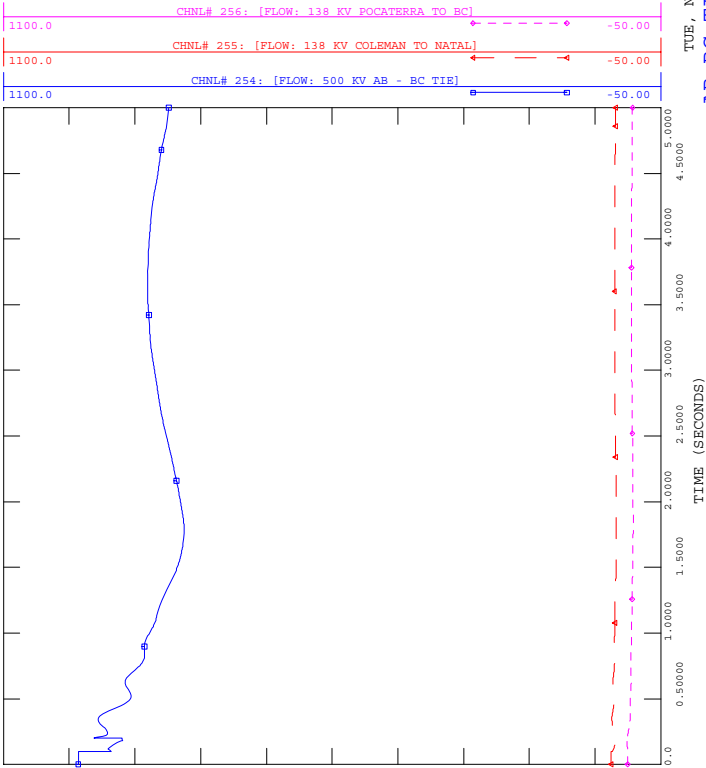


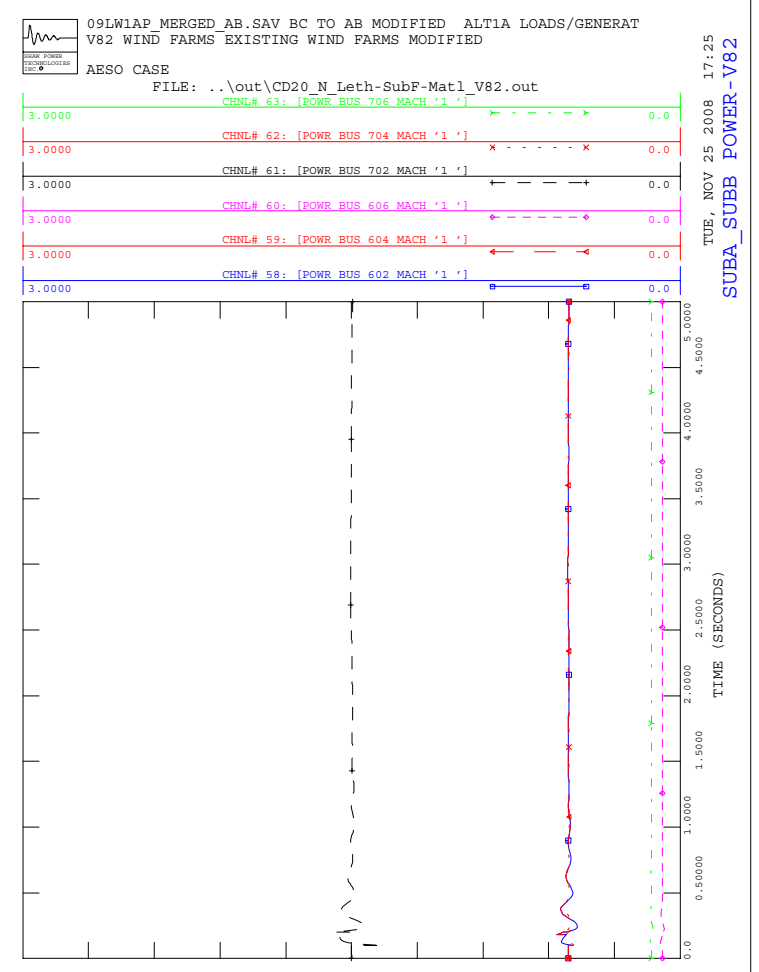
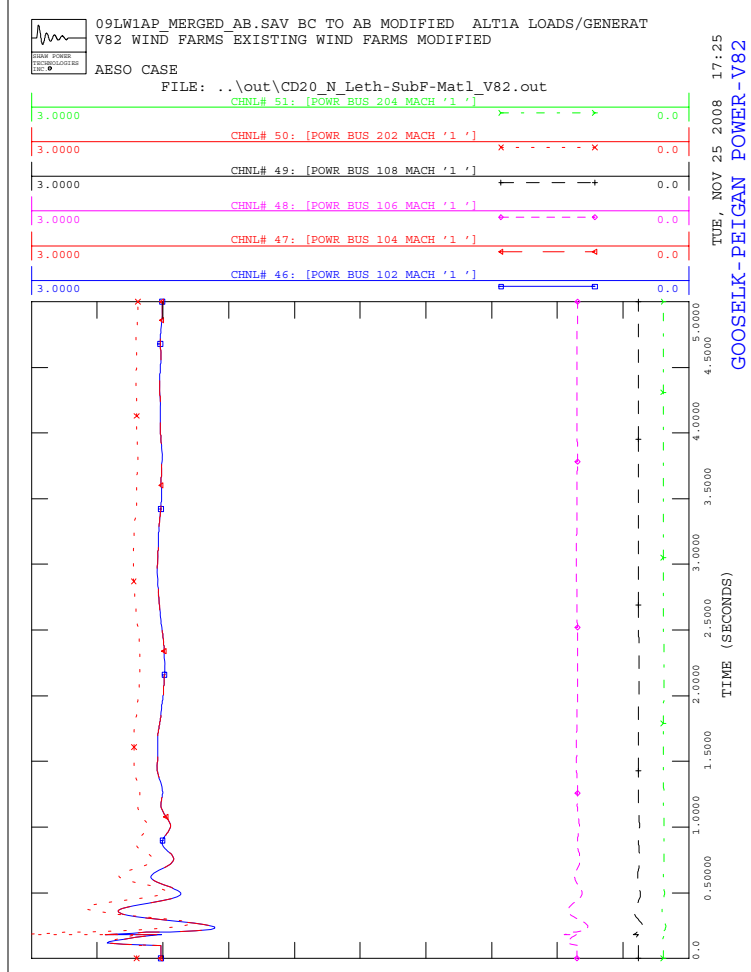
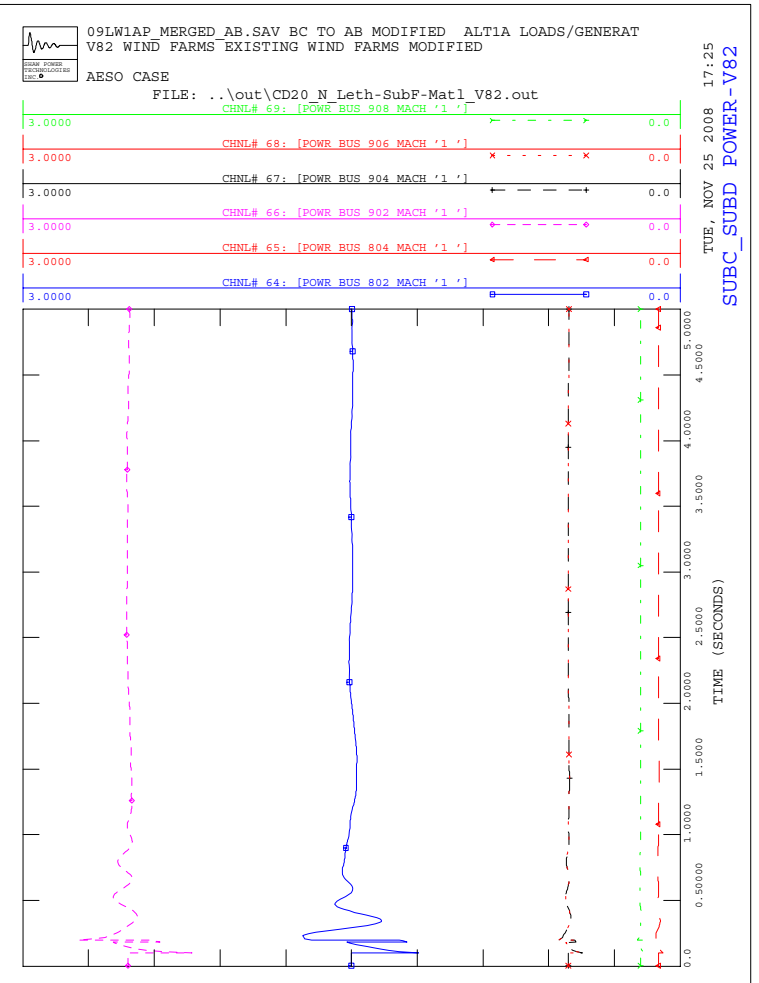
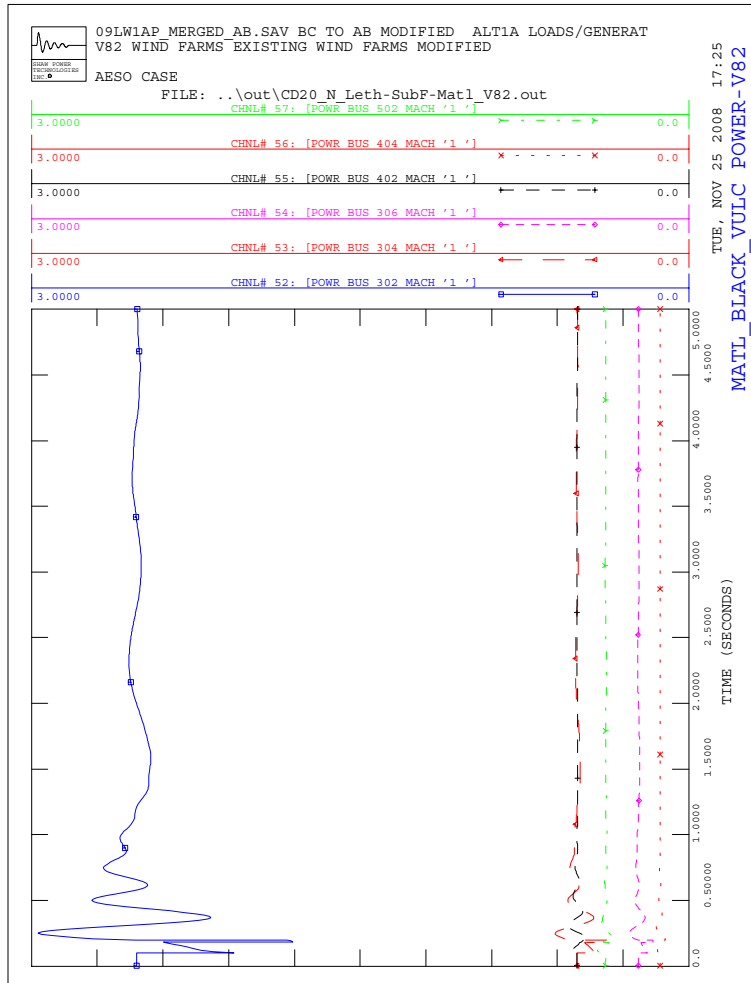
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

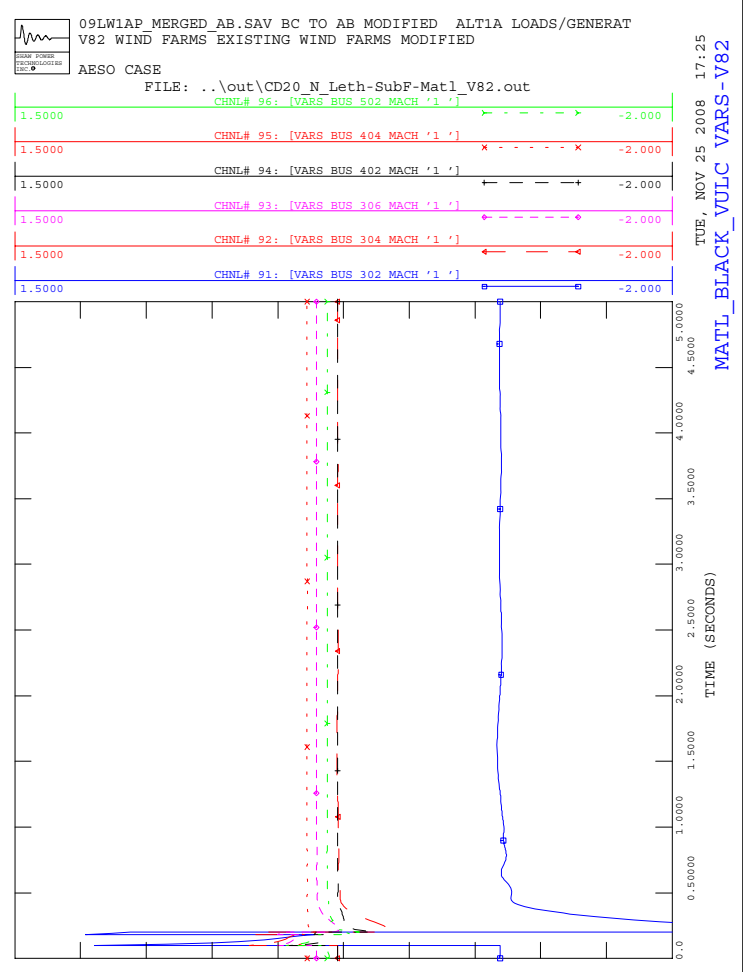
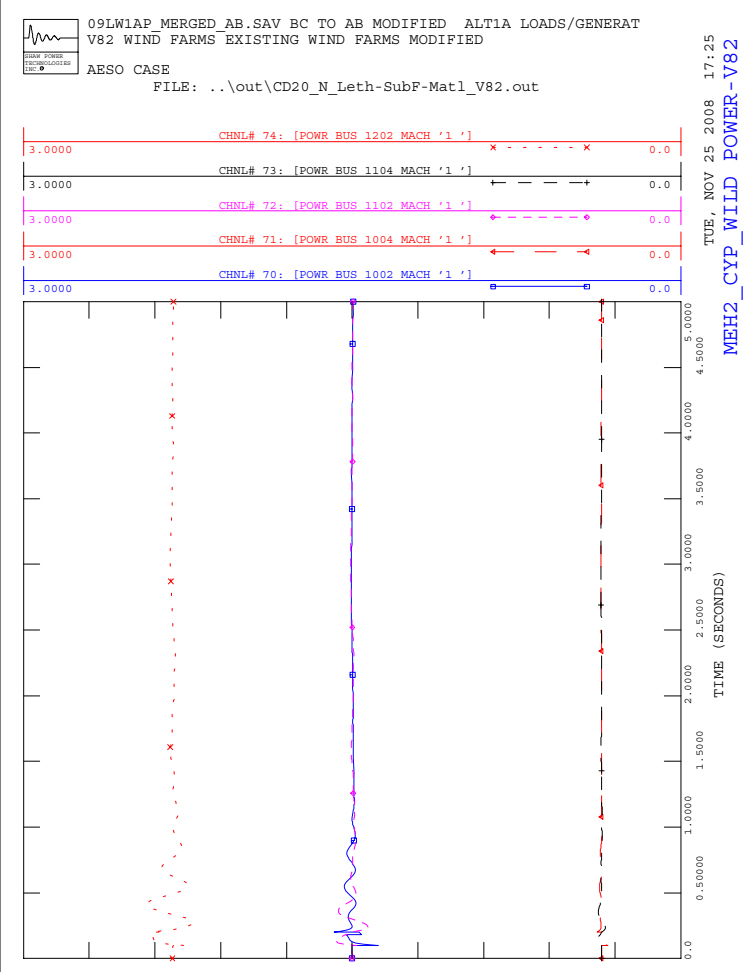
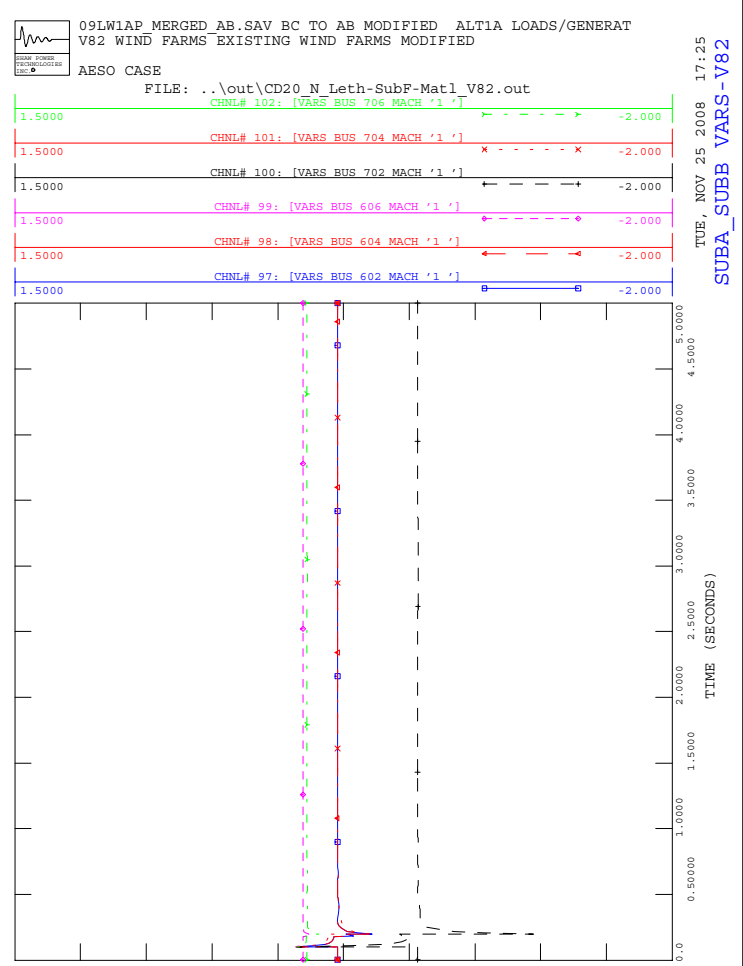
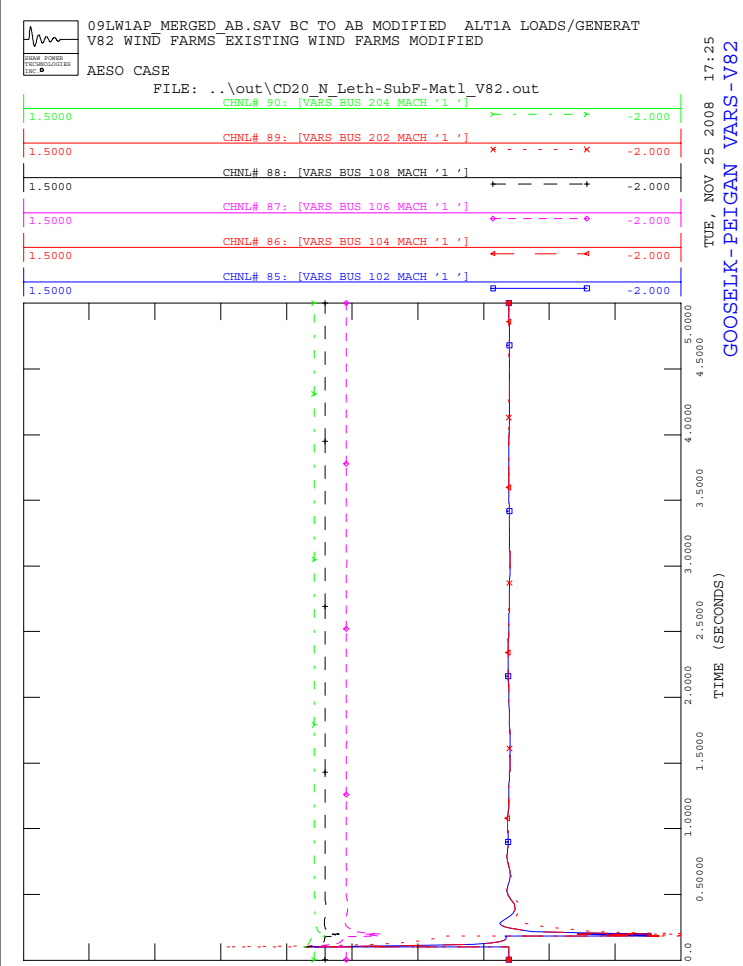
ABSO CASE

FILE: ..\out\CD11_Med_hat2-Westb_V82.out

TUE, NOV 25 2008 17:25
AB_BC_TIE_FLOWS-V82

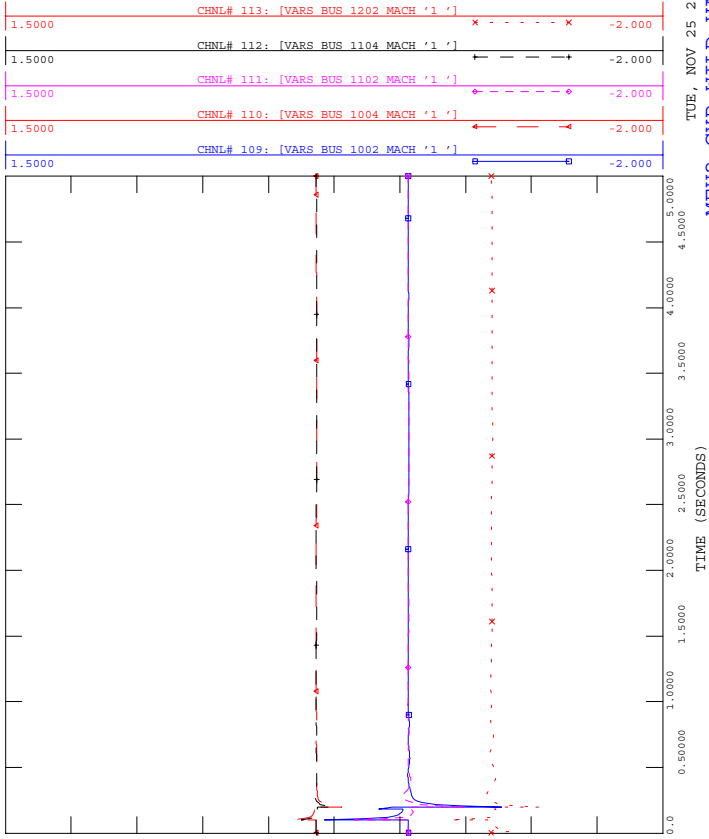






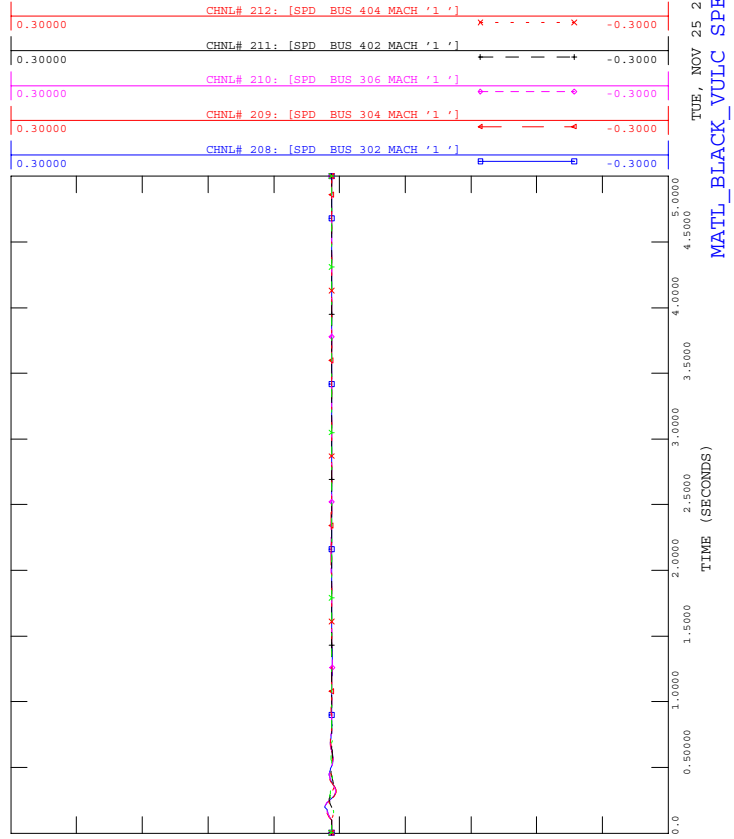
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\CD20_N_Leth-SubF-Mat1_V82.out



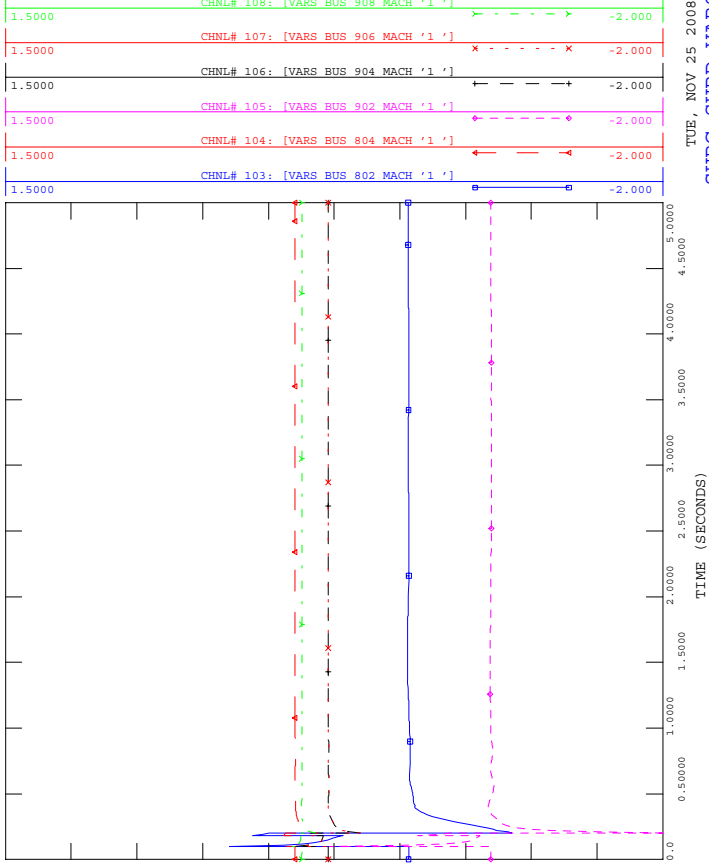
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\CD20_N_Leth-SubF-Mat1_V82.out



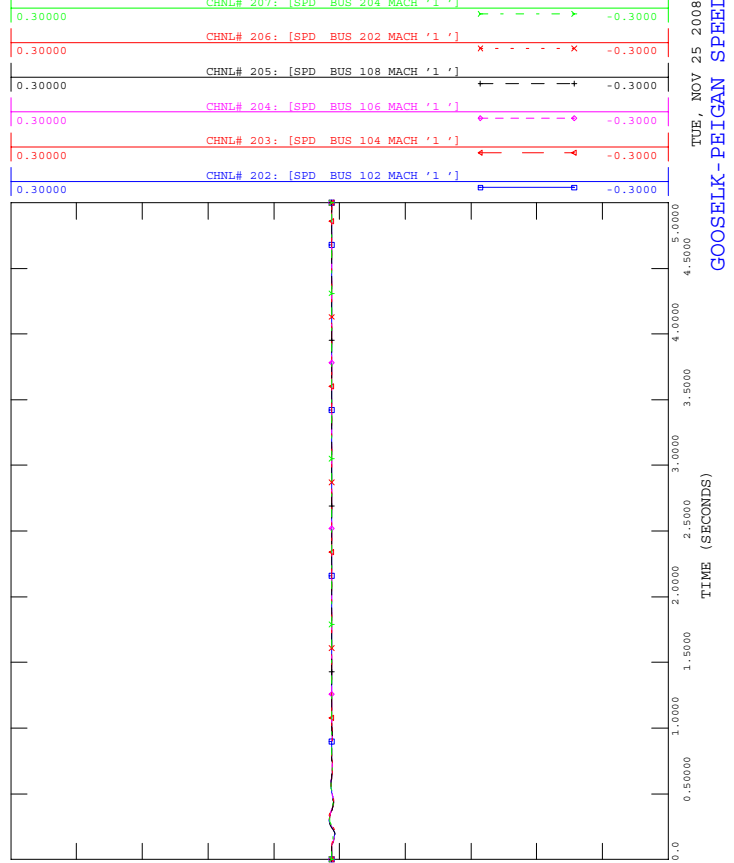
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

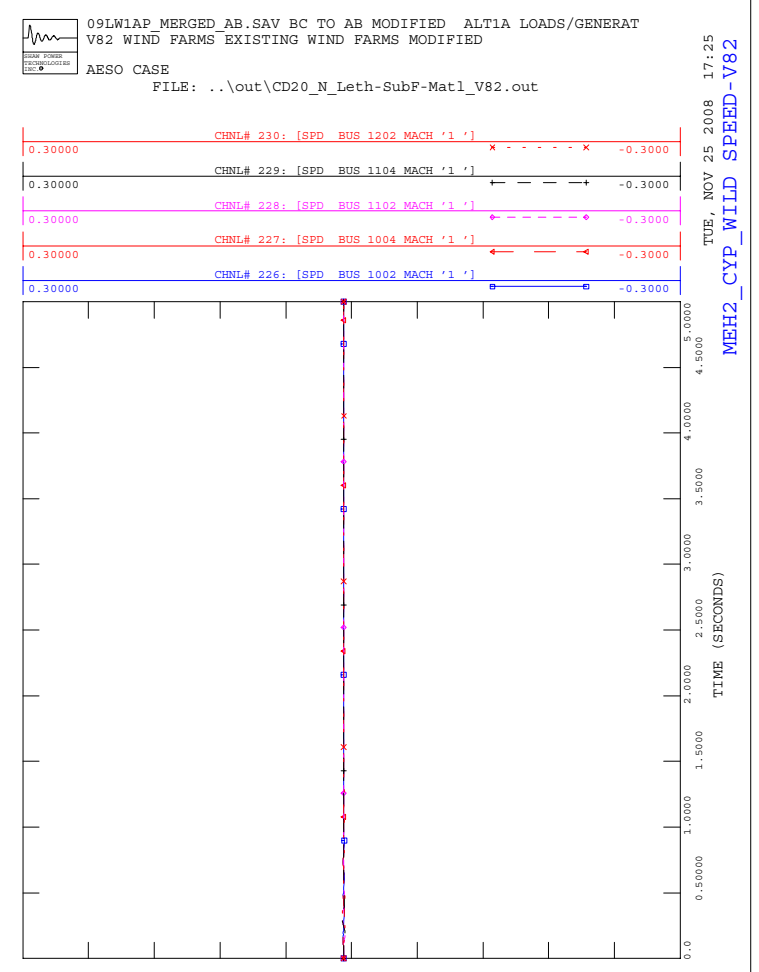
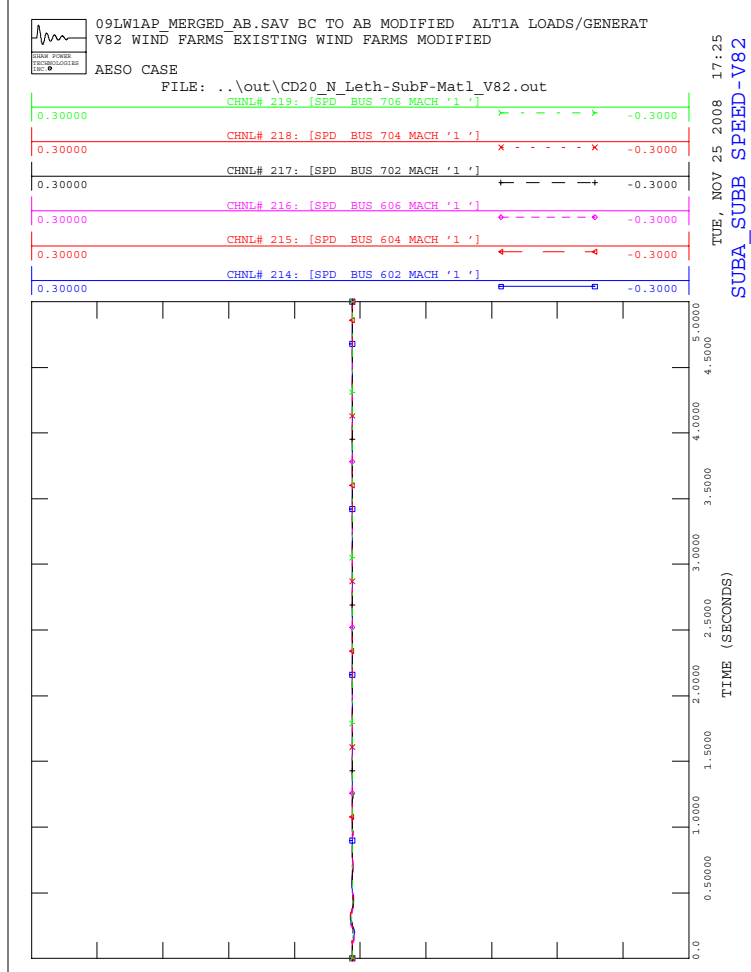
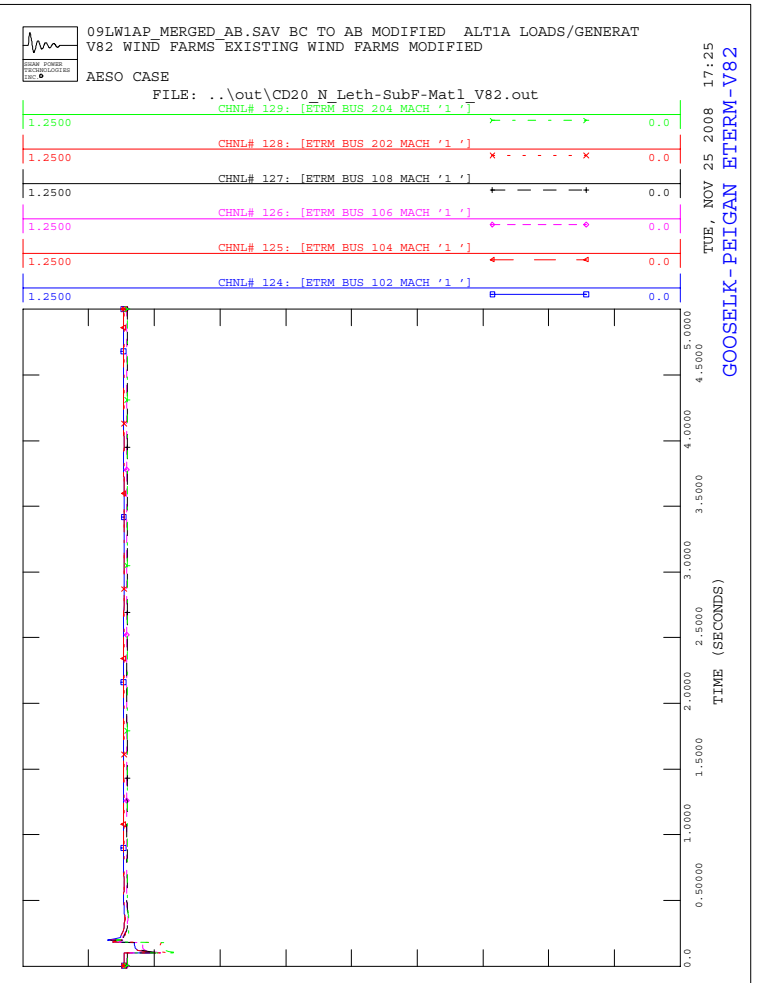
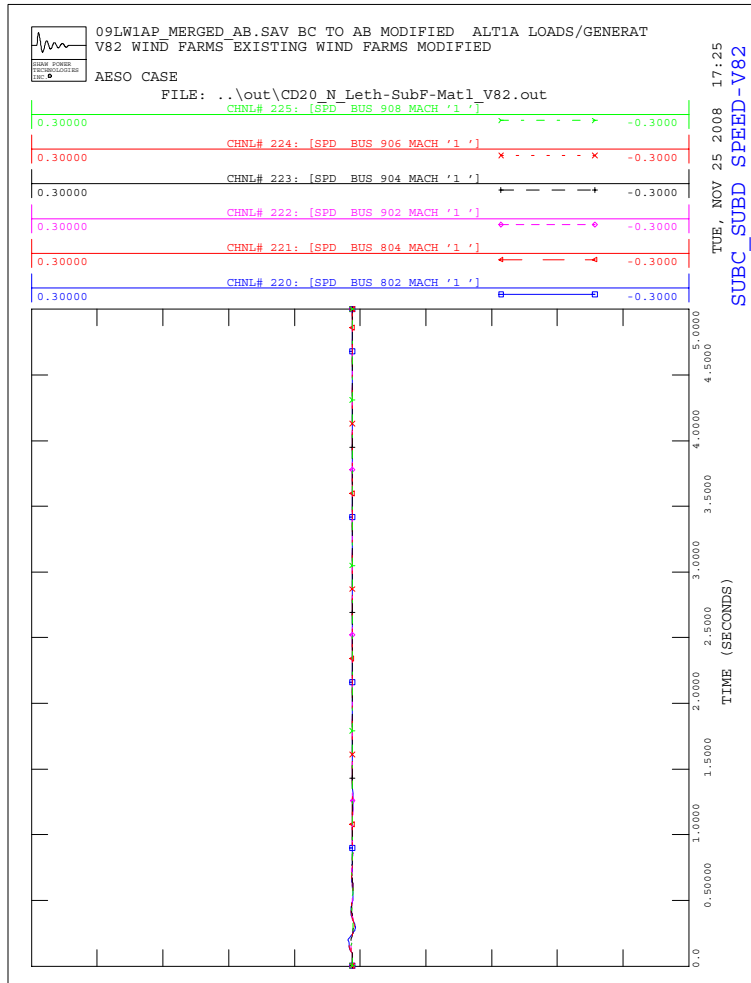
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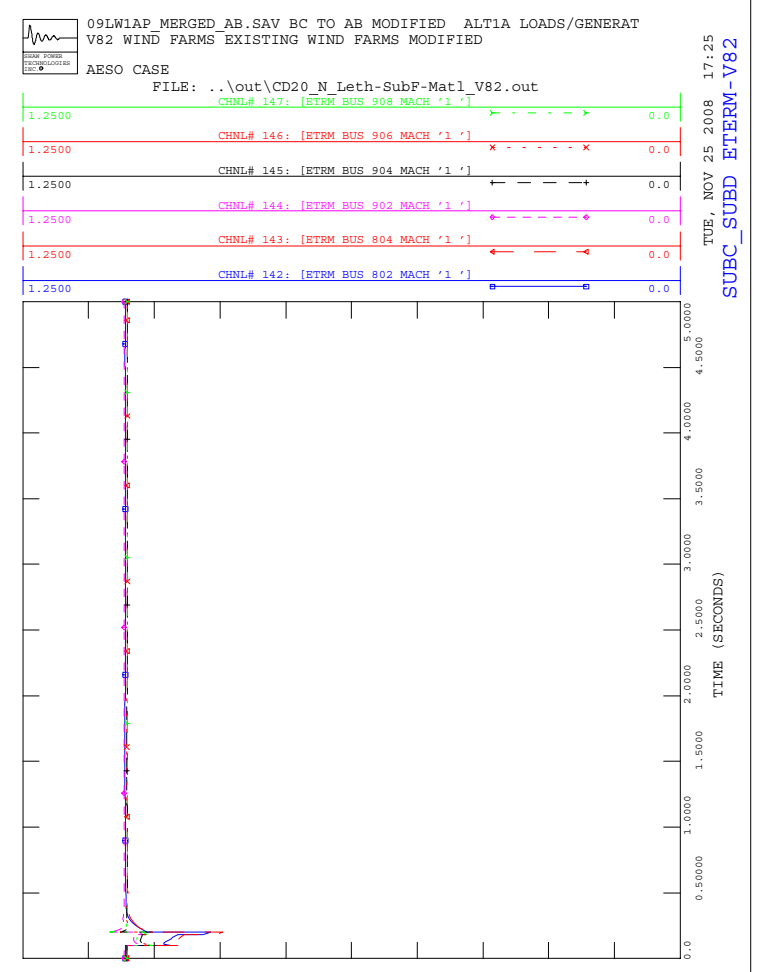
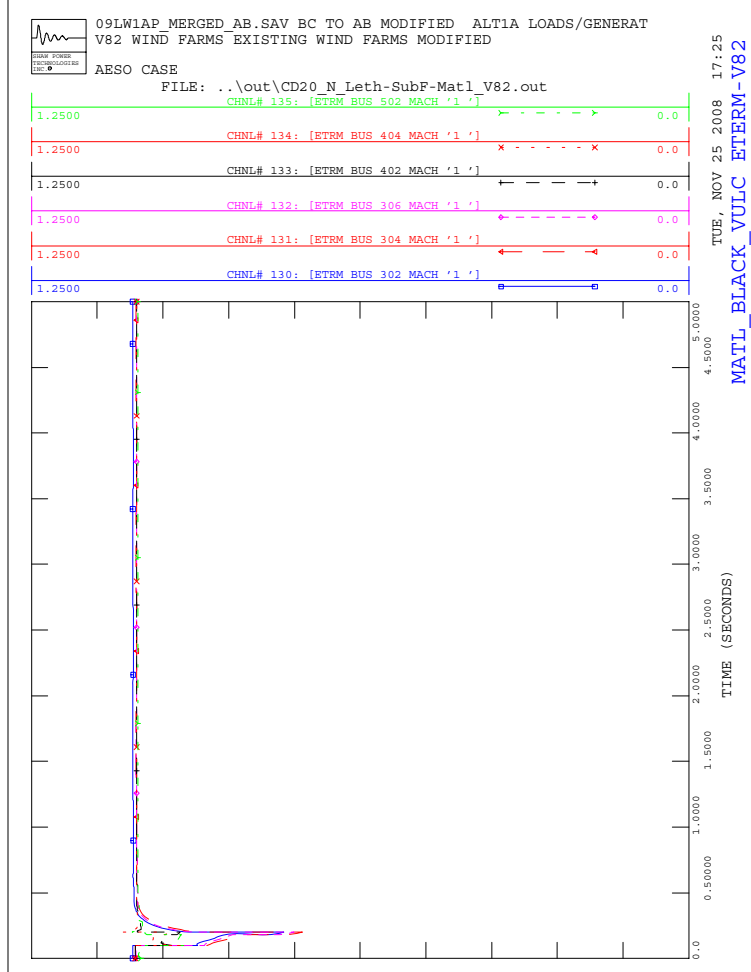
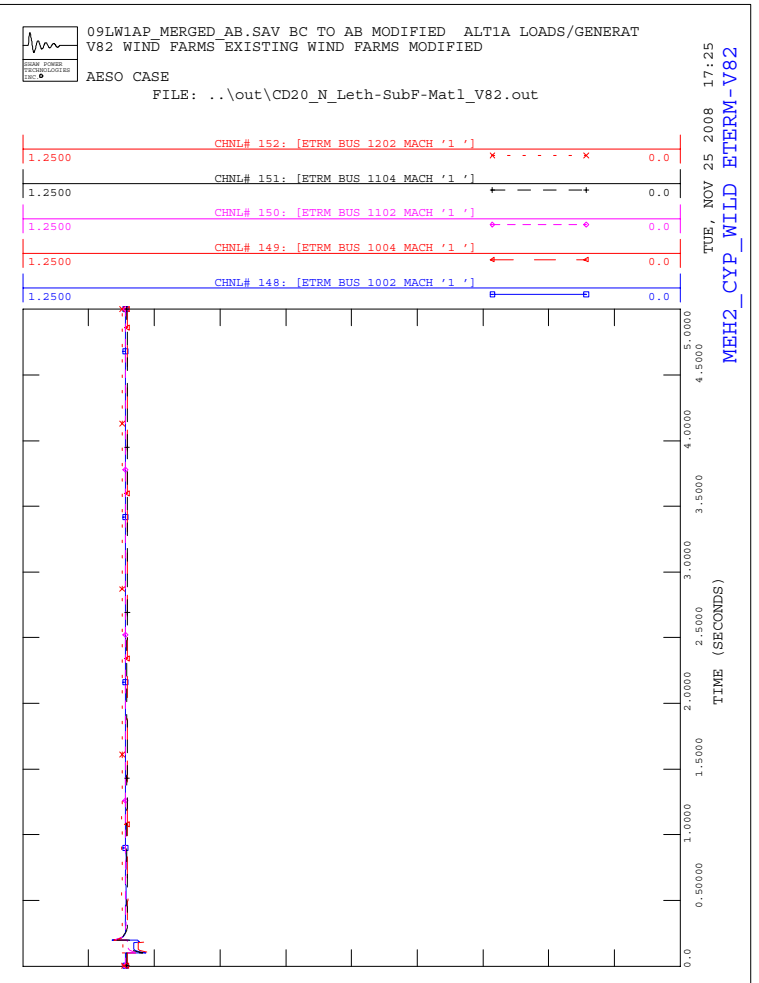
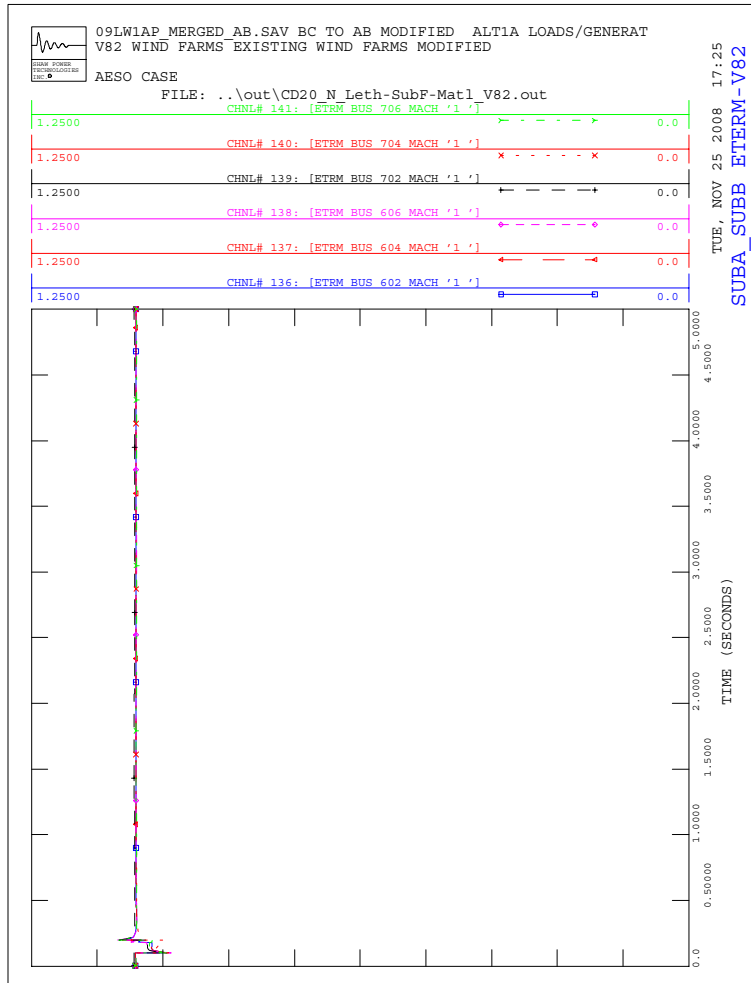


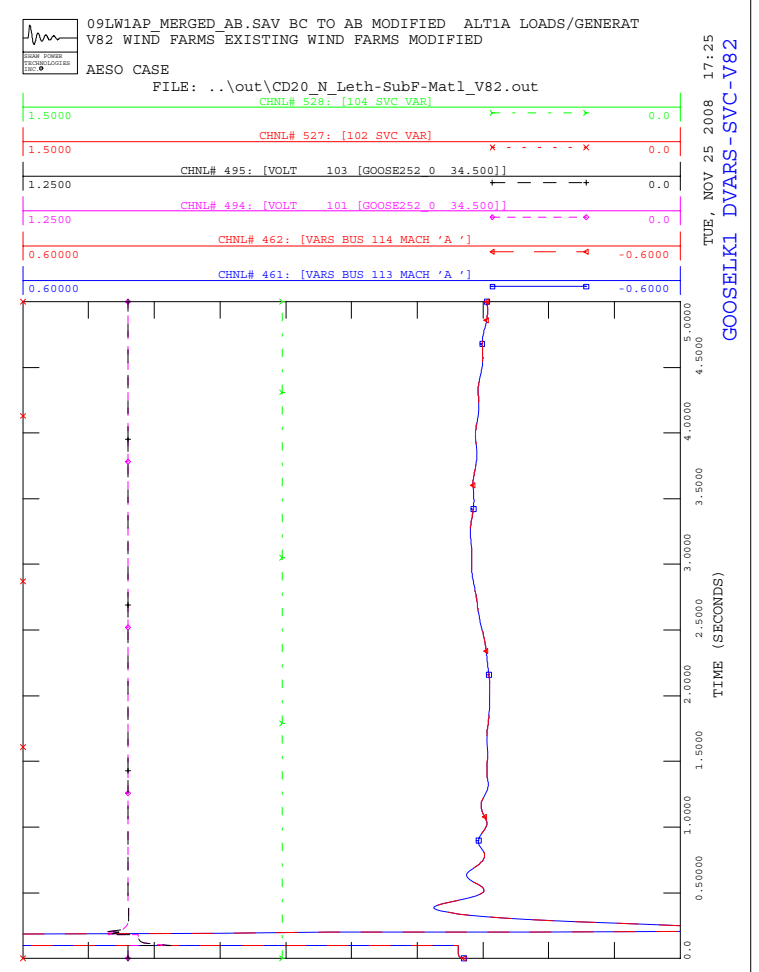
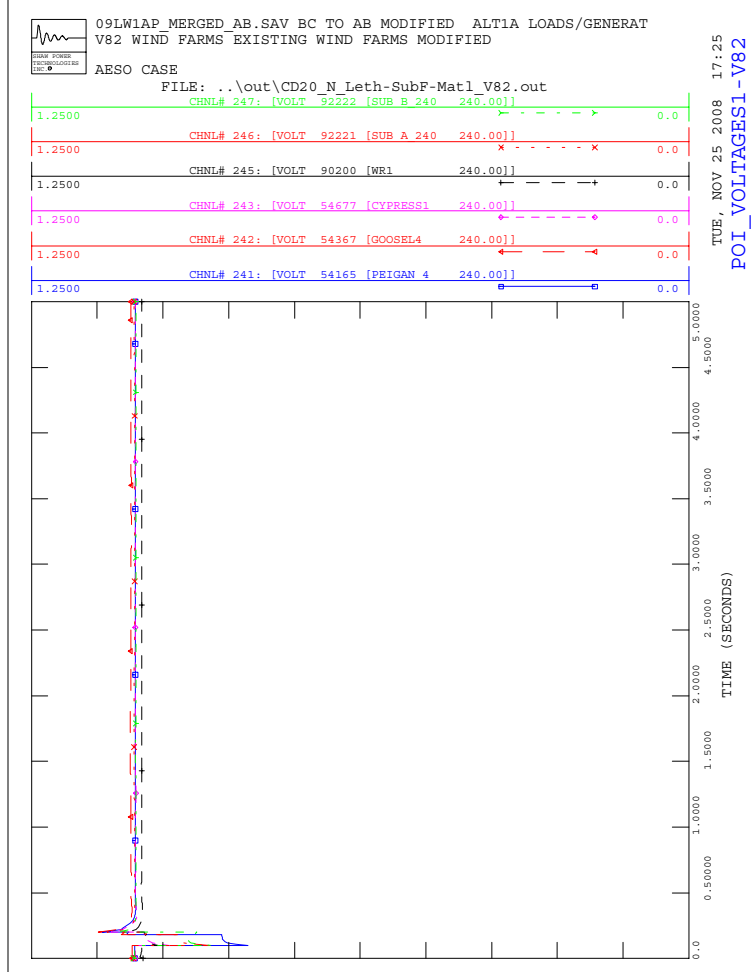
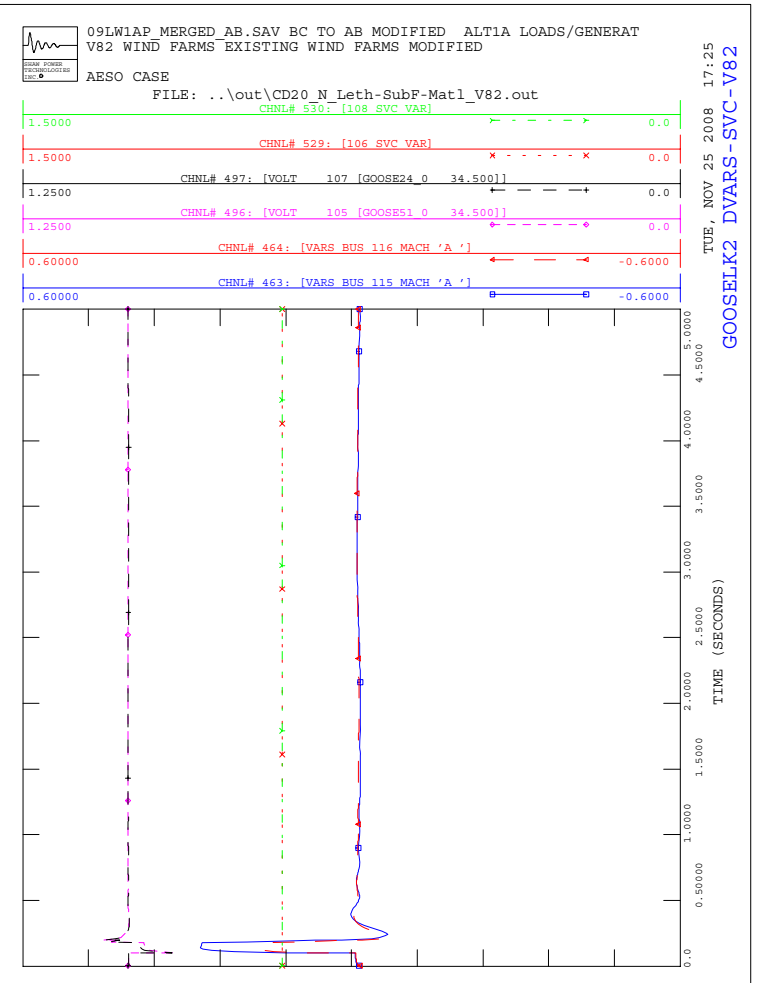
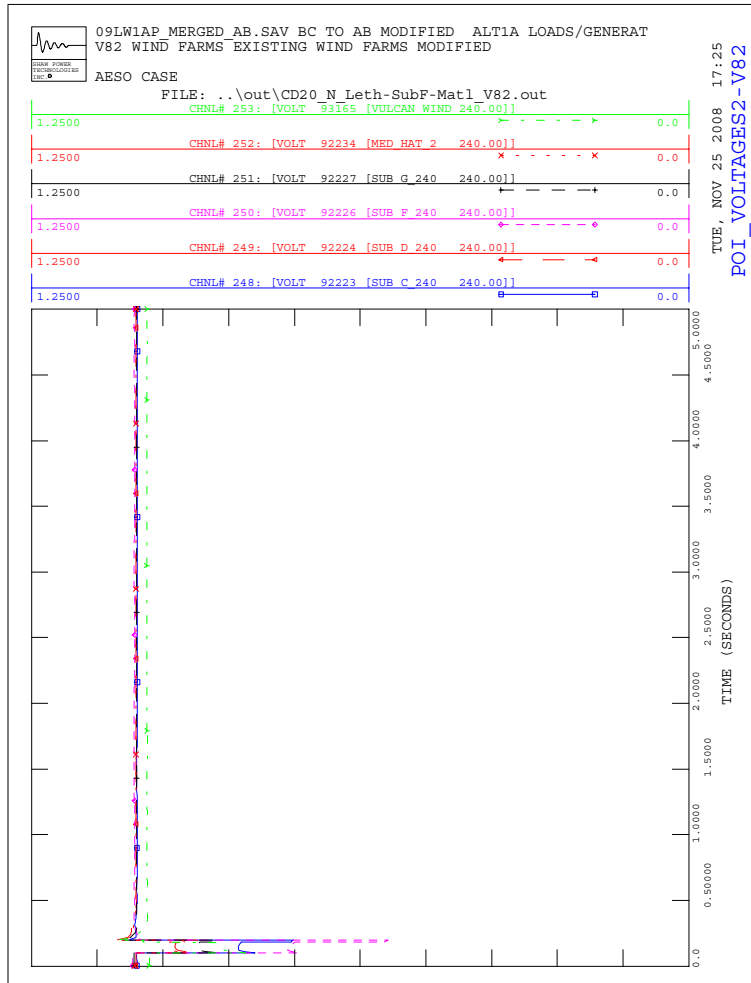
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

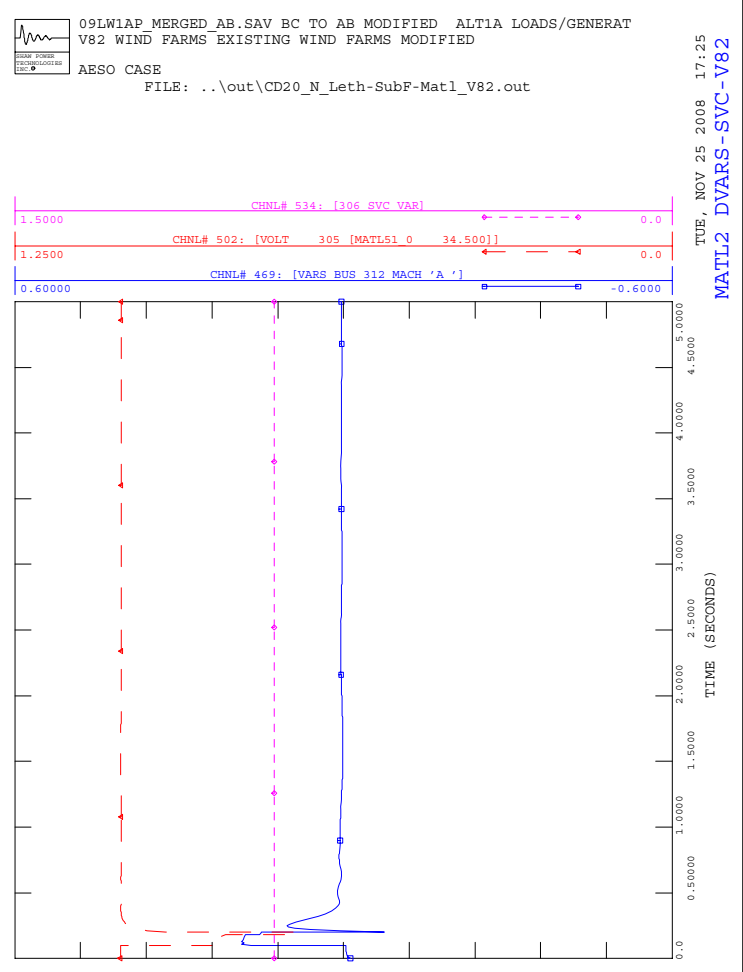
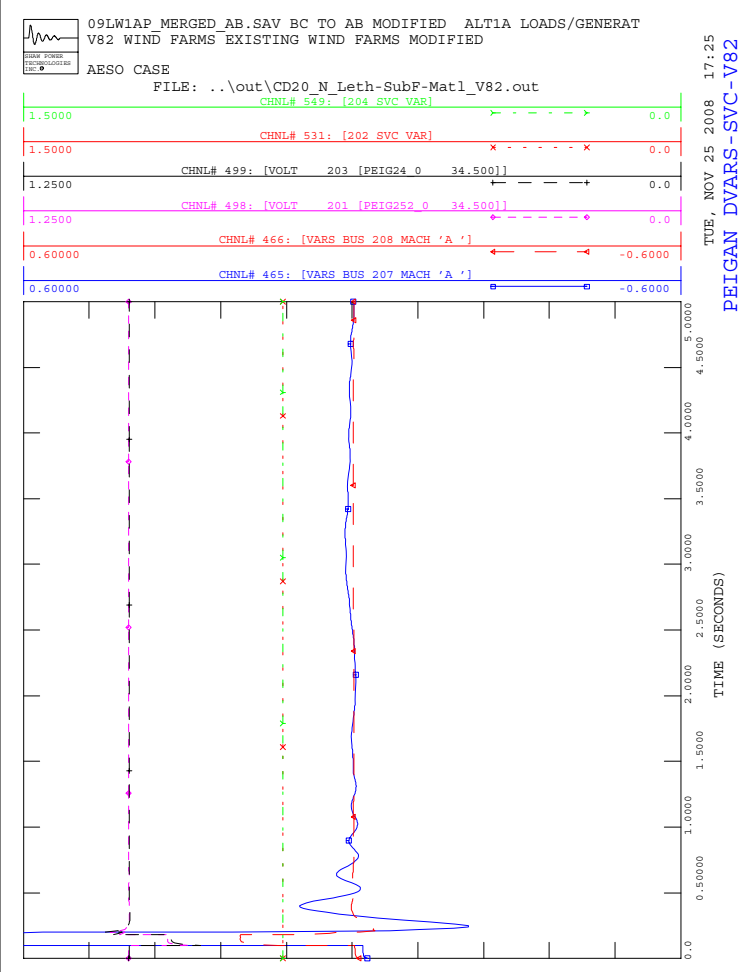
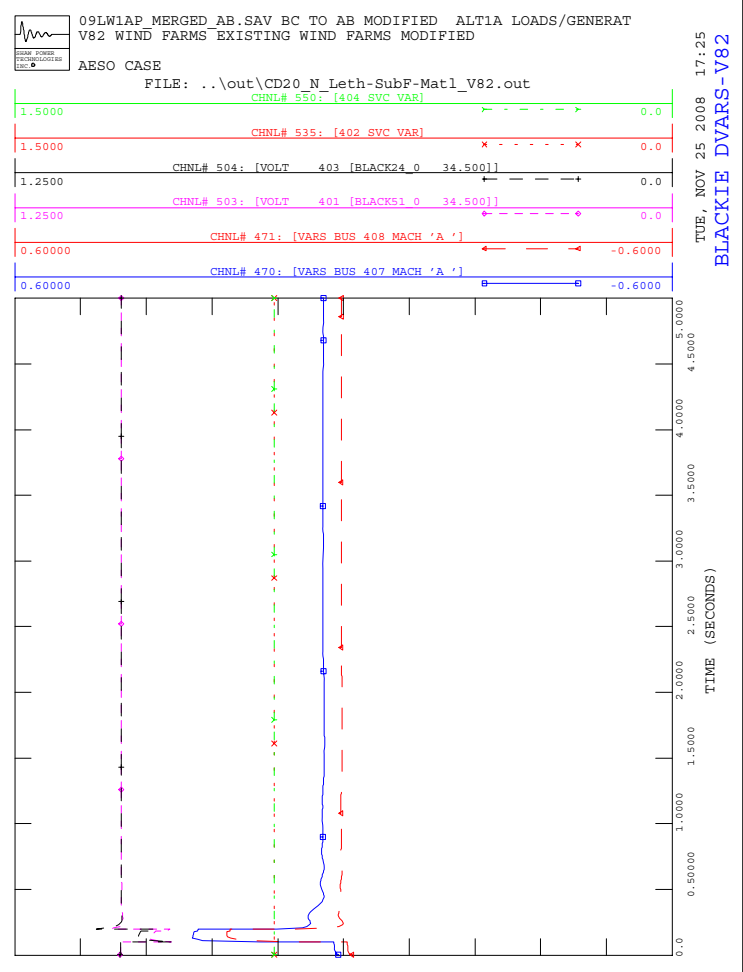
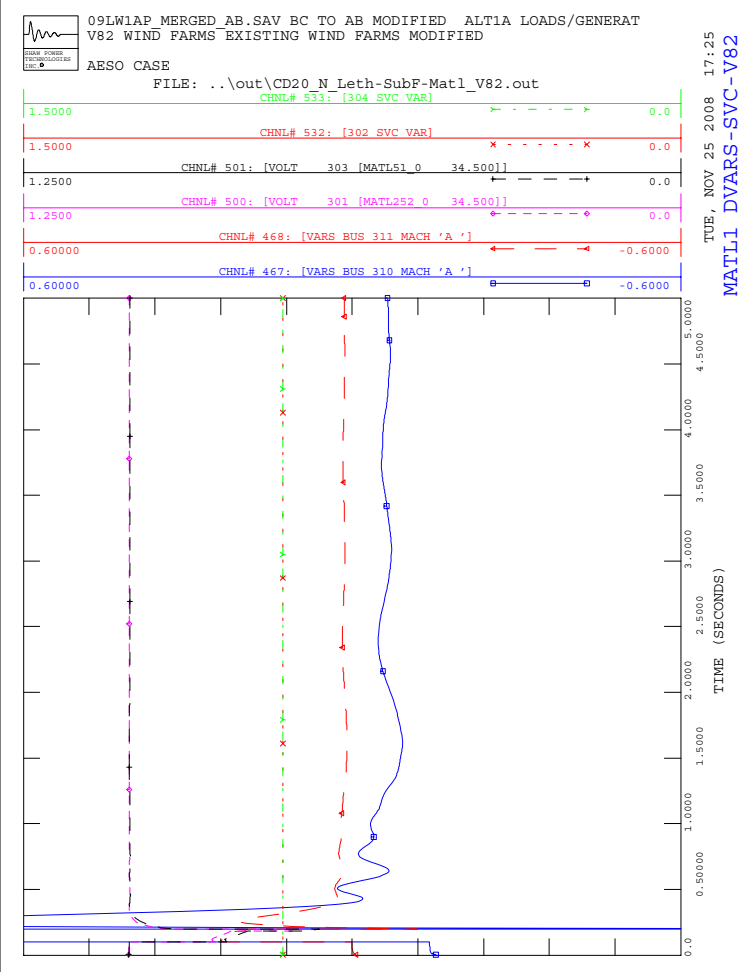
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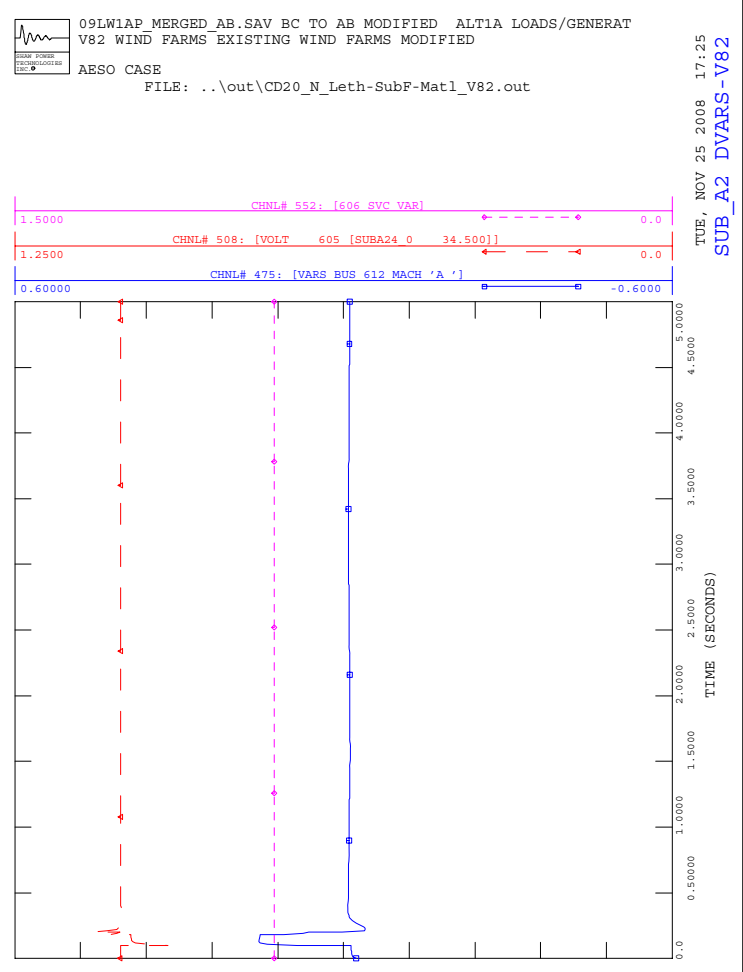
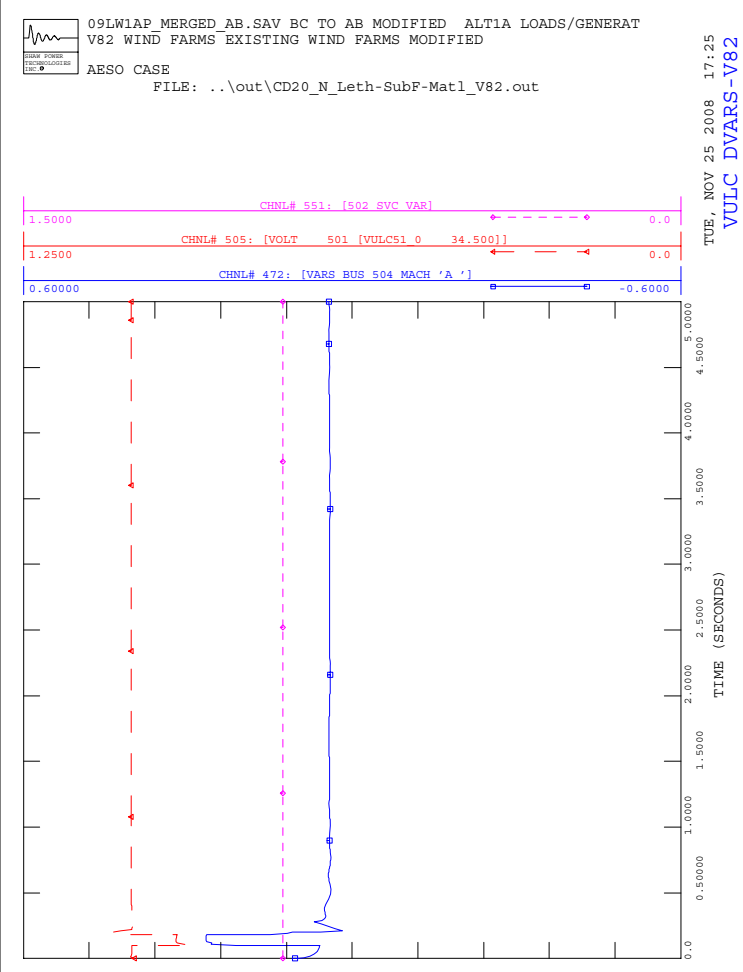
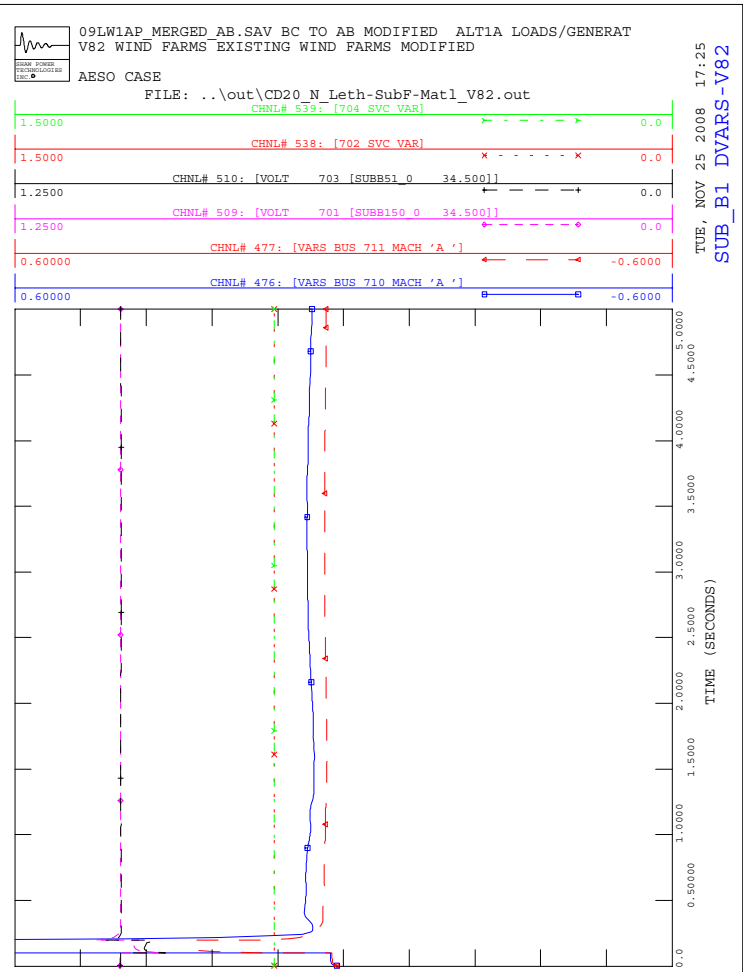
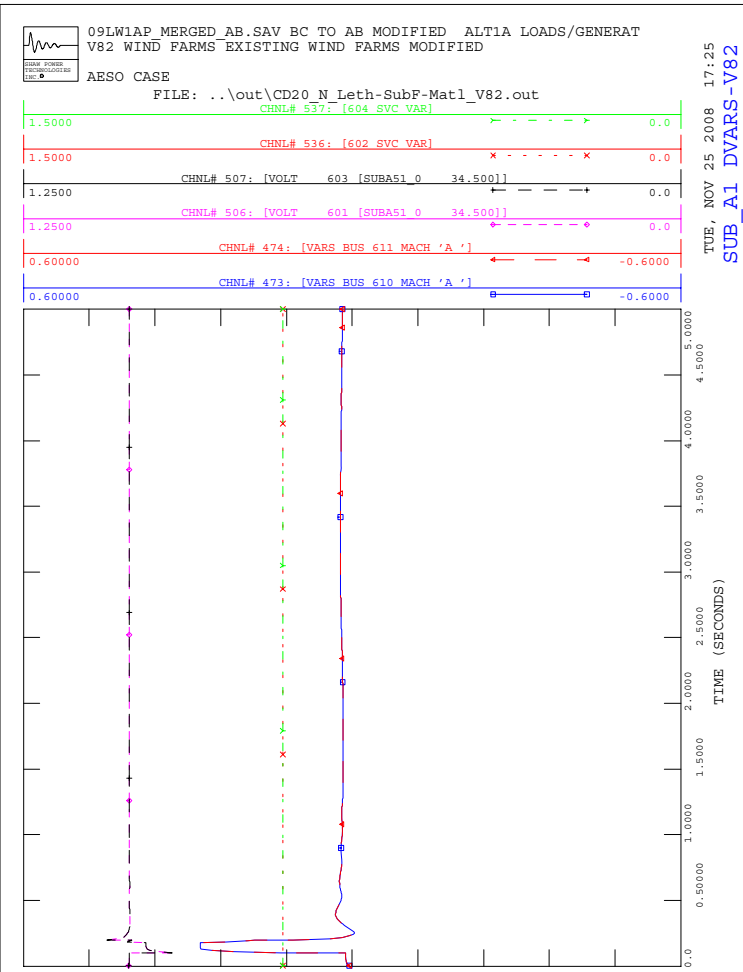


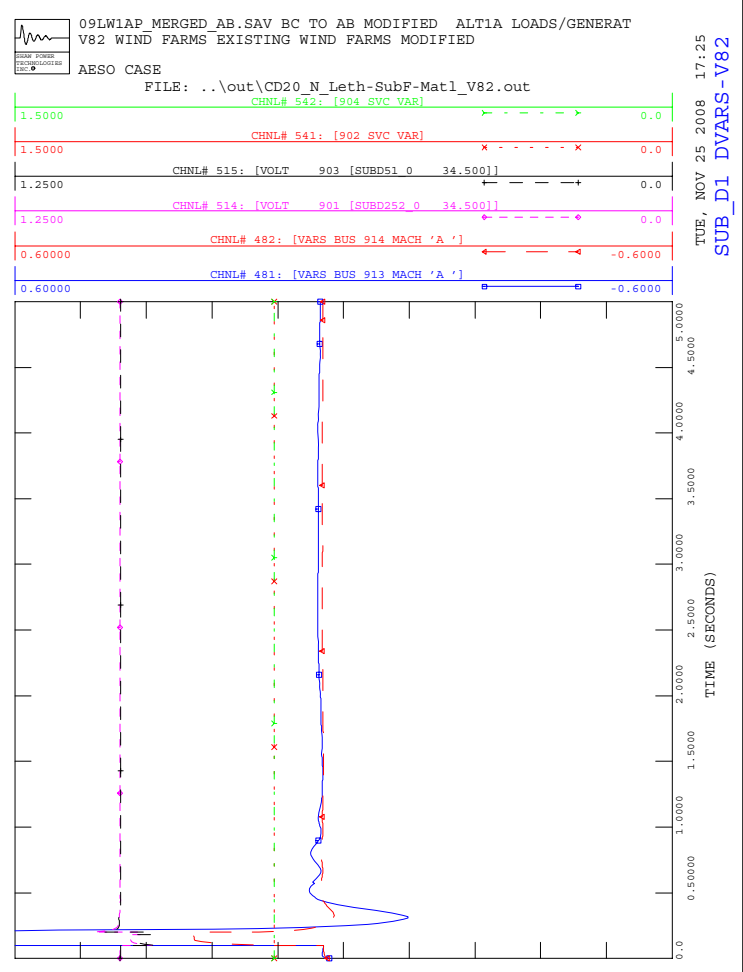
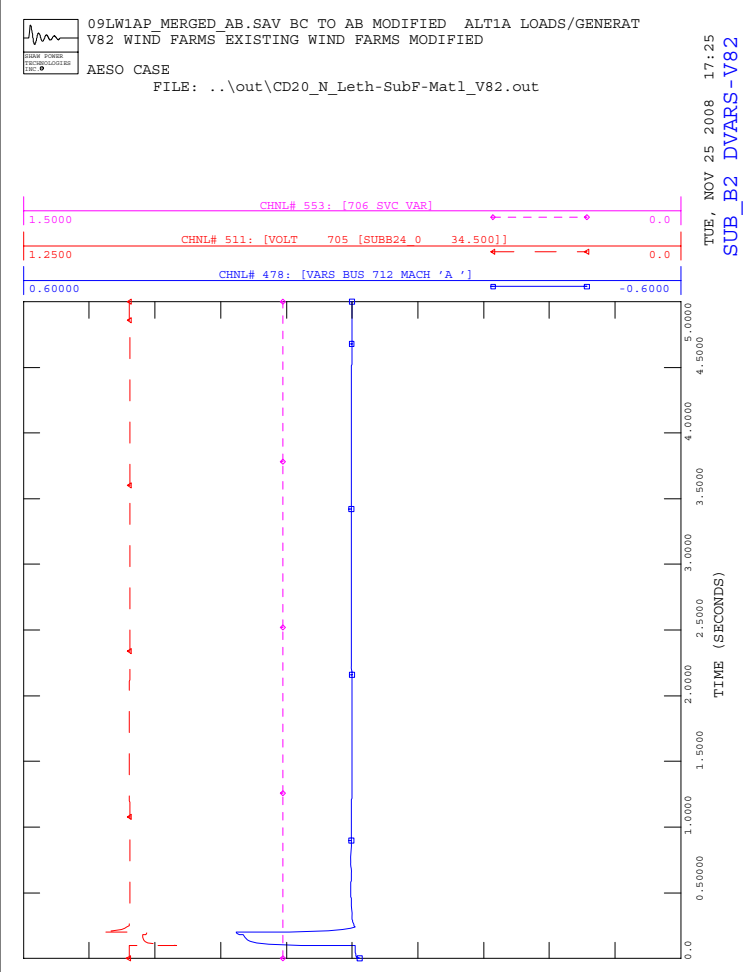
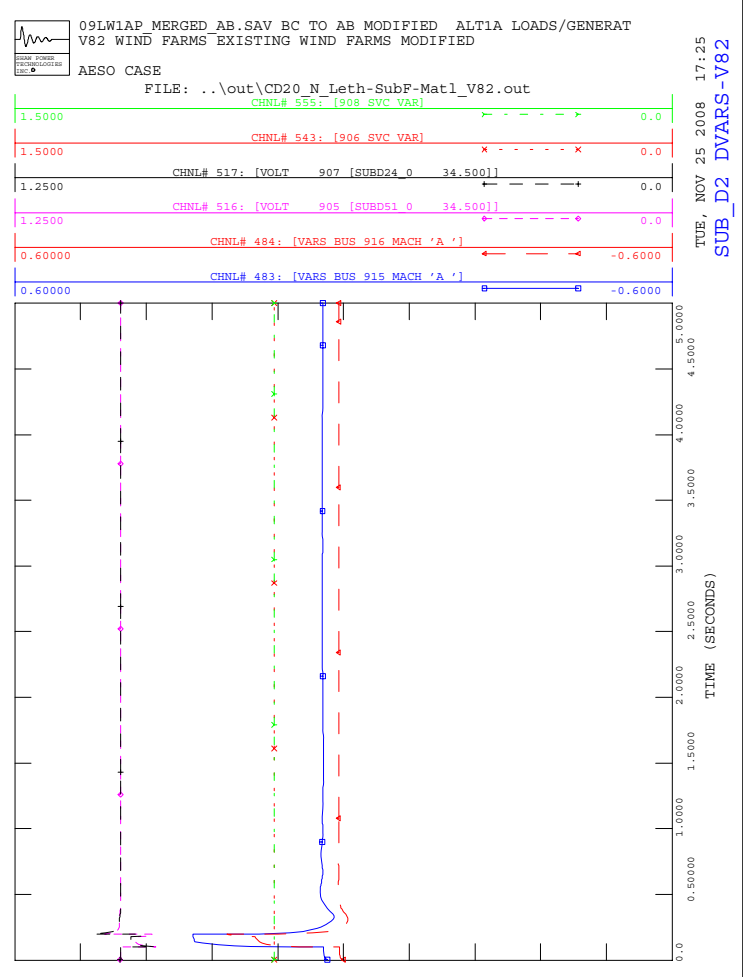
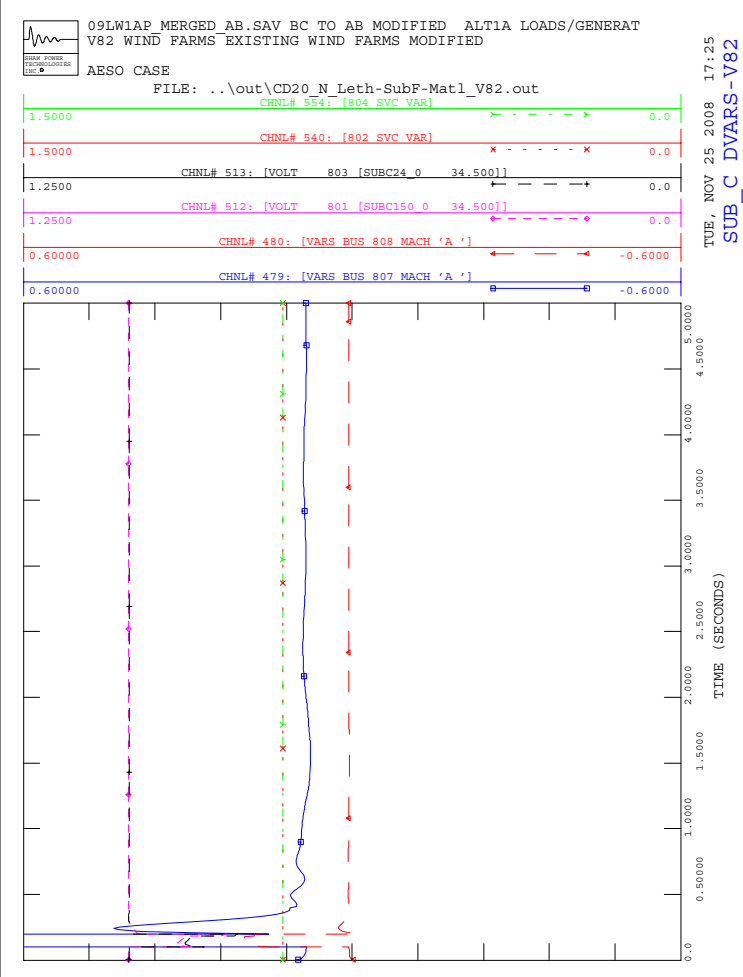


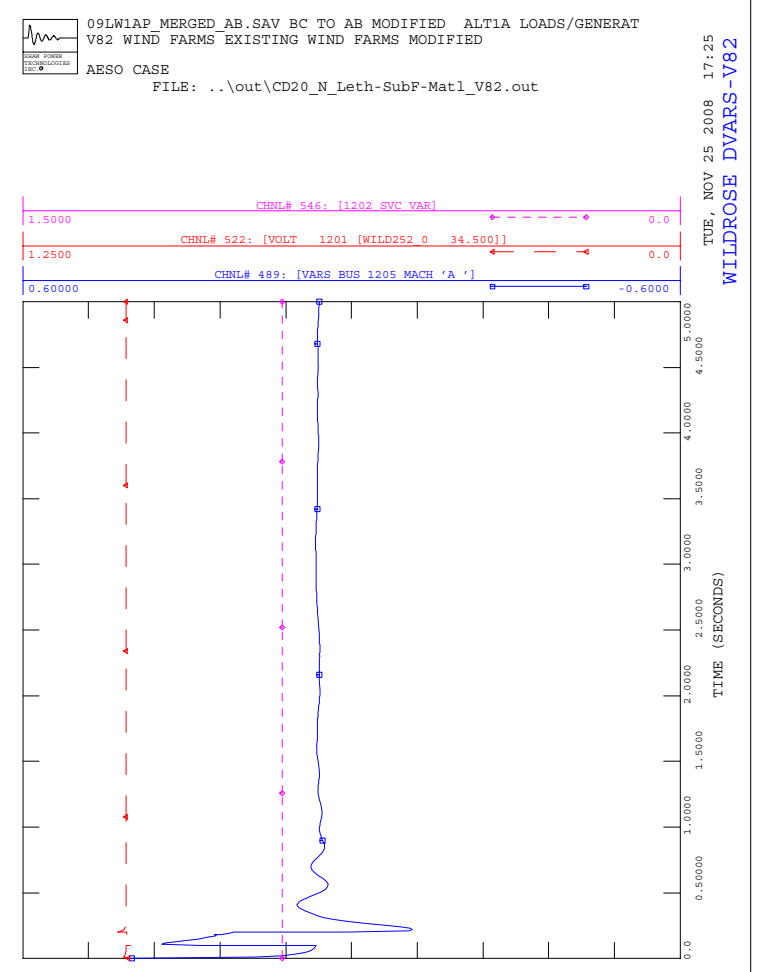
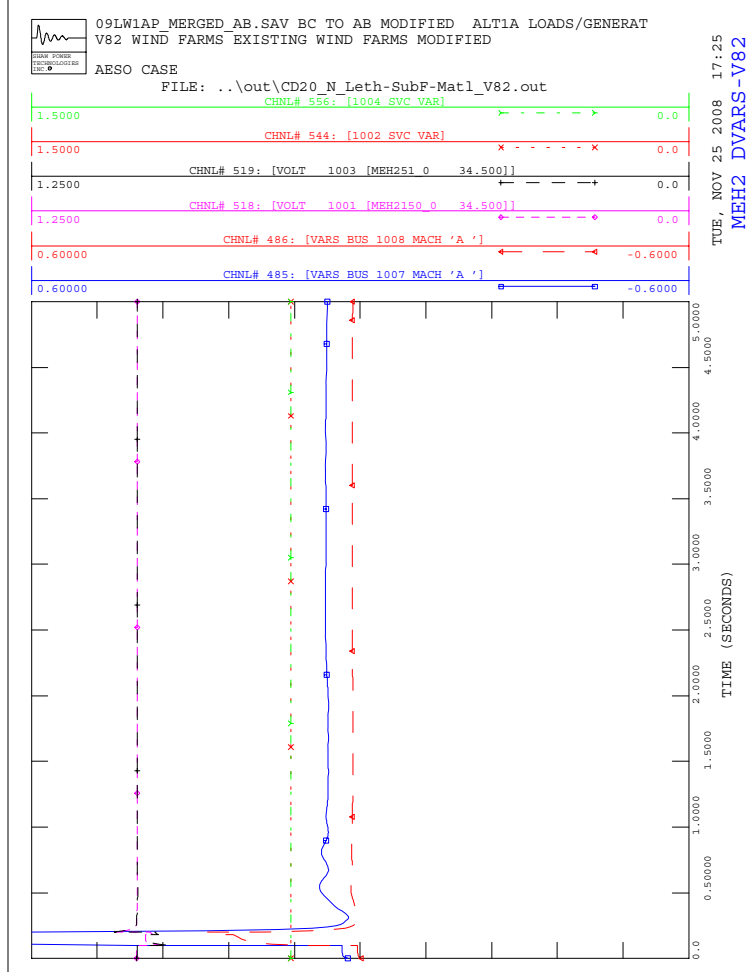
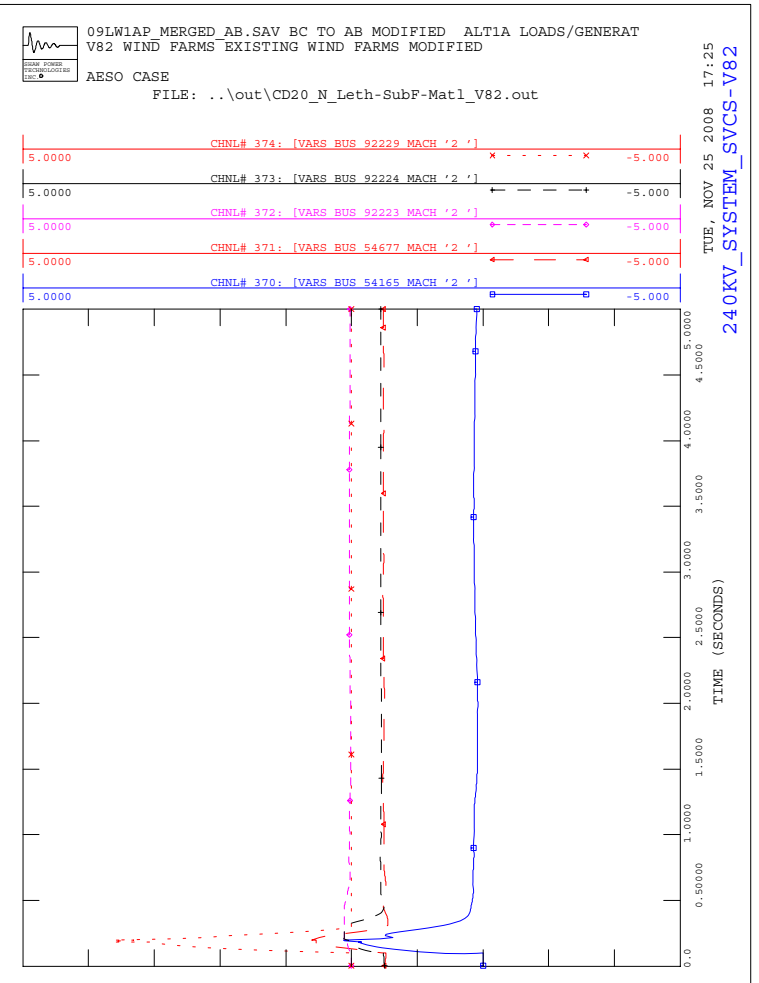
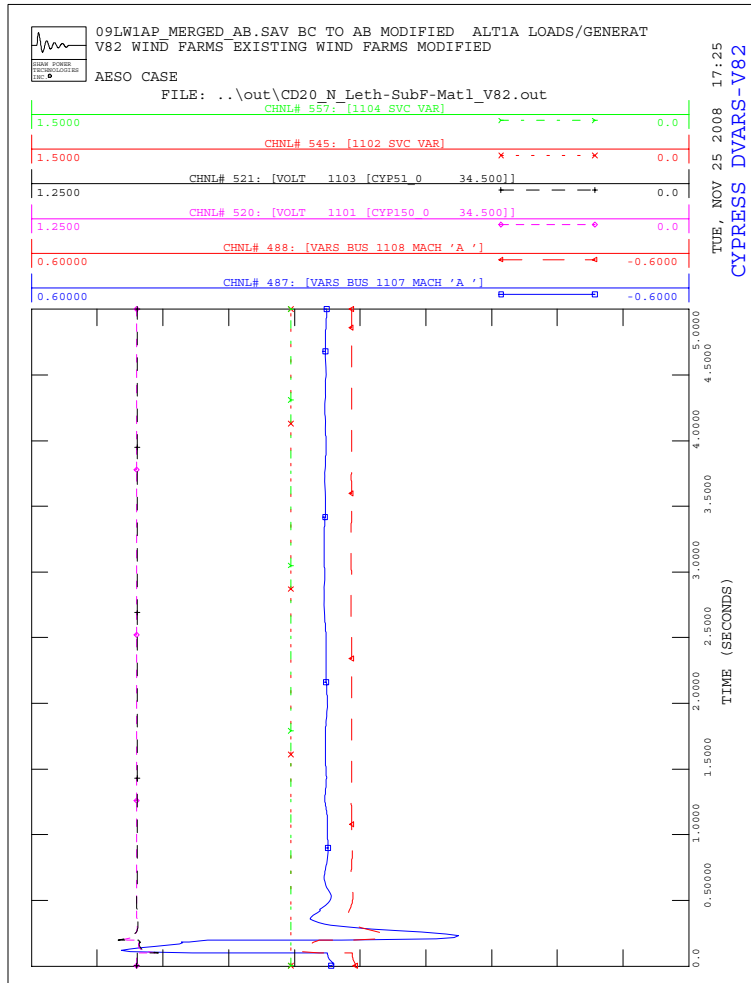






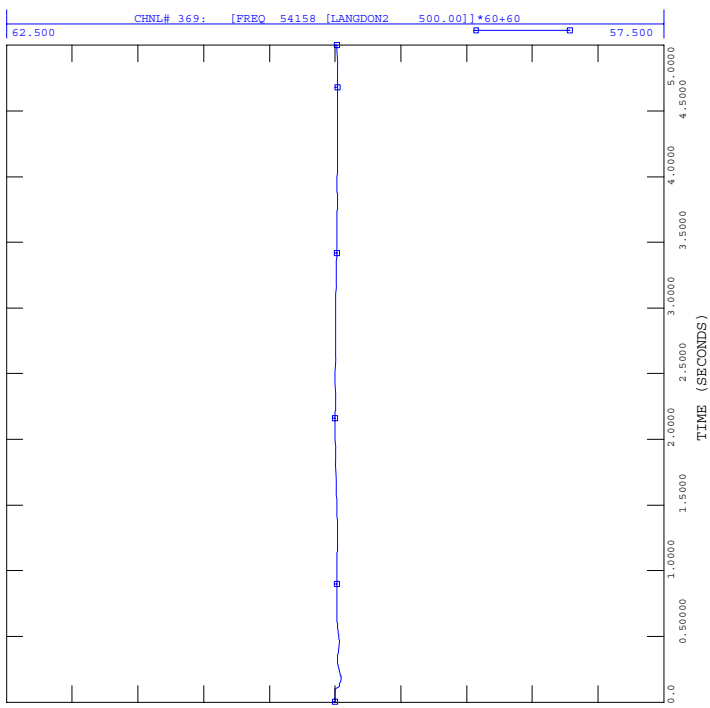






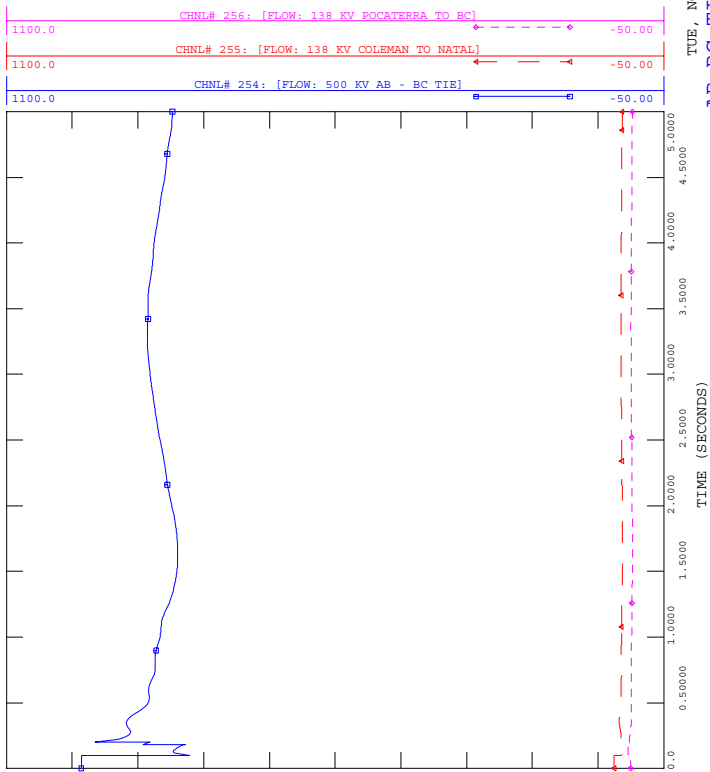
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ABSO CASE
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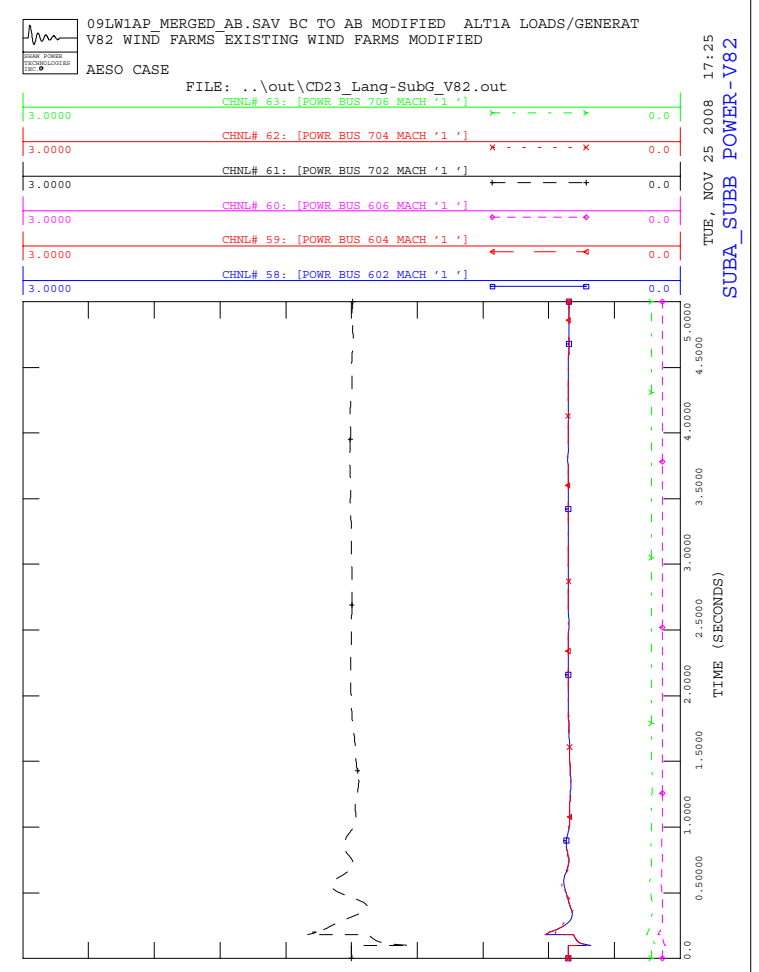
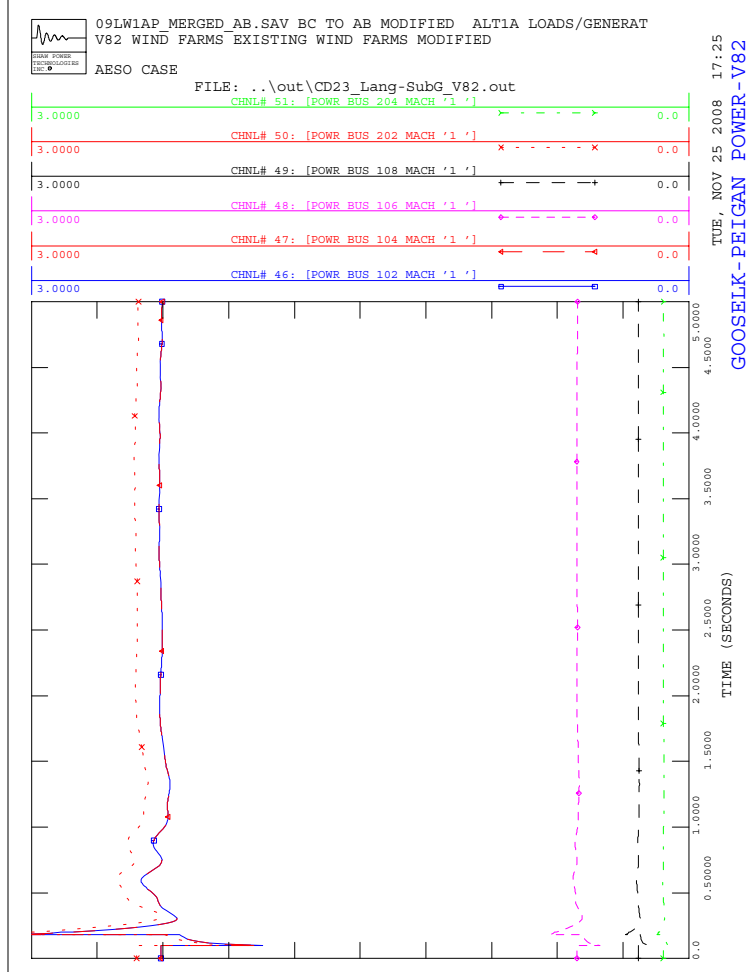
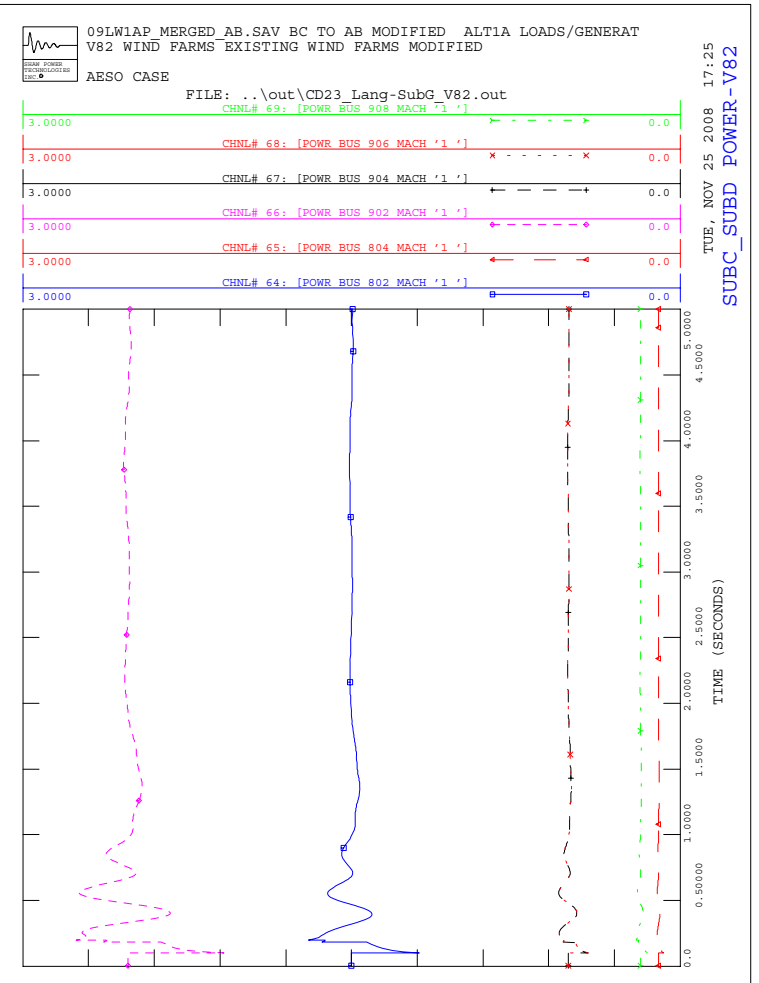
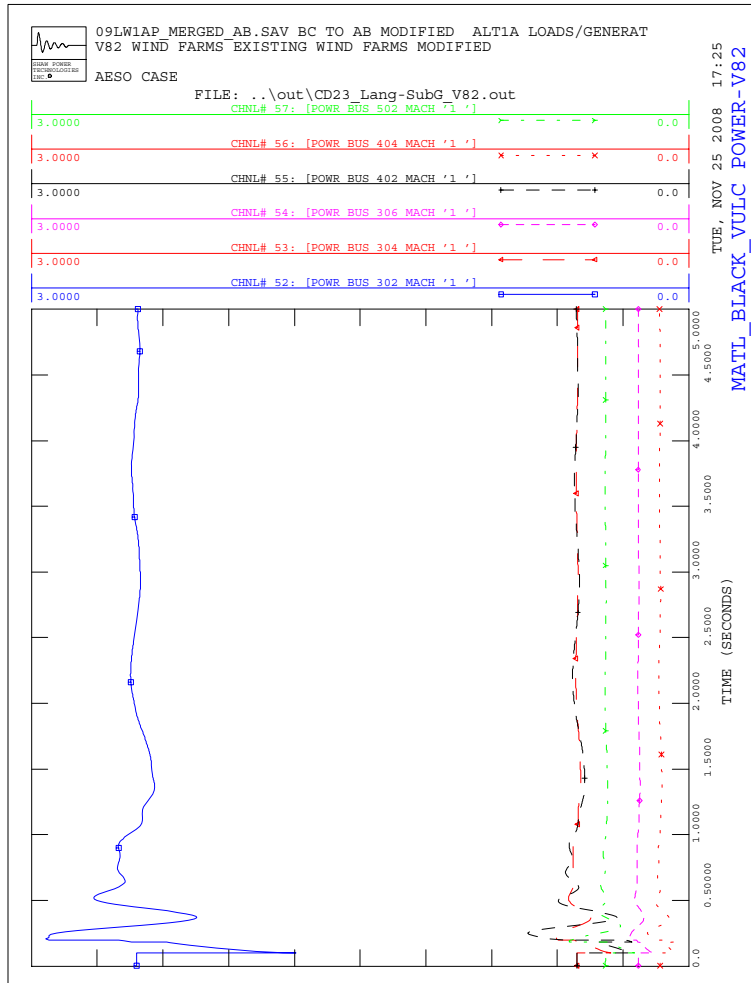
TUE, NOV 25 2008 17:25
LANGDON_FRQ-V82

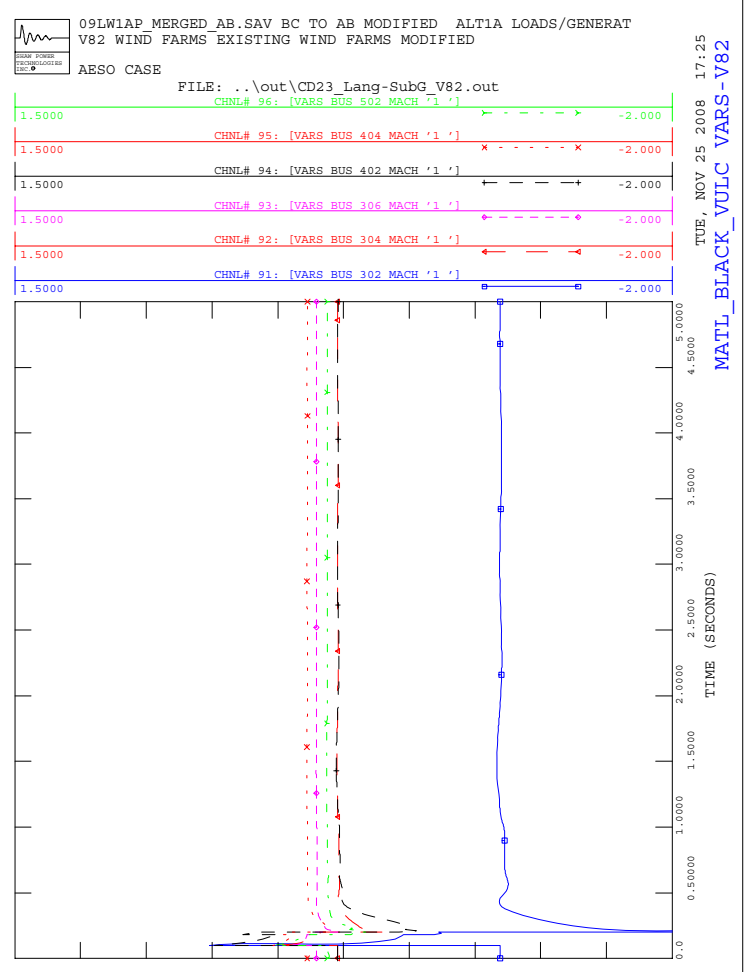
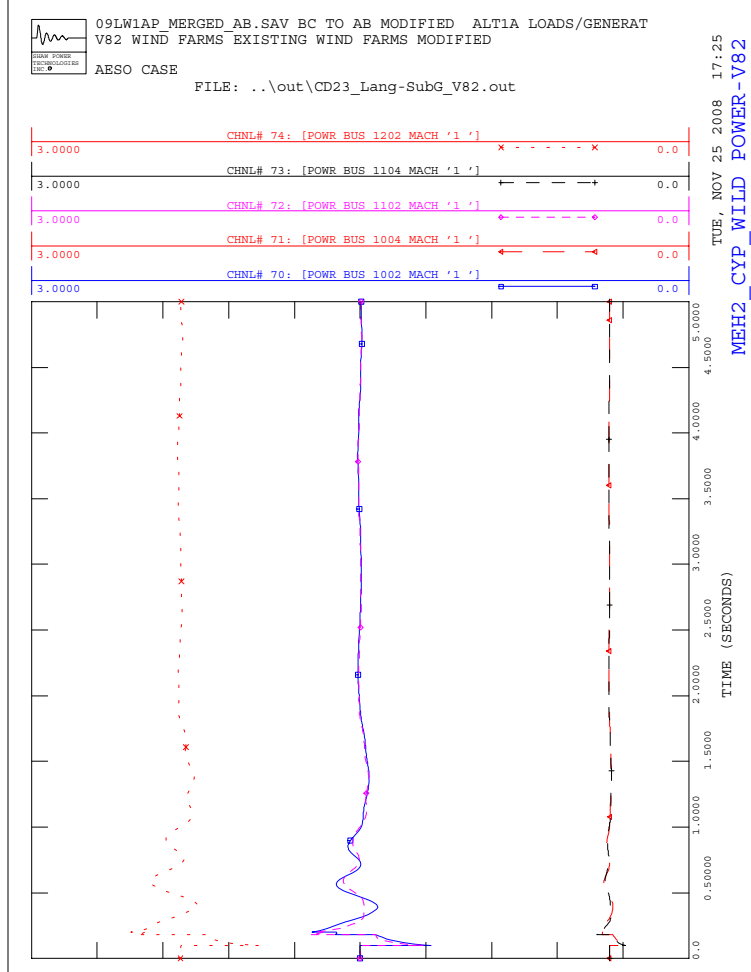
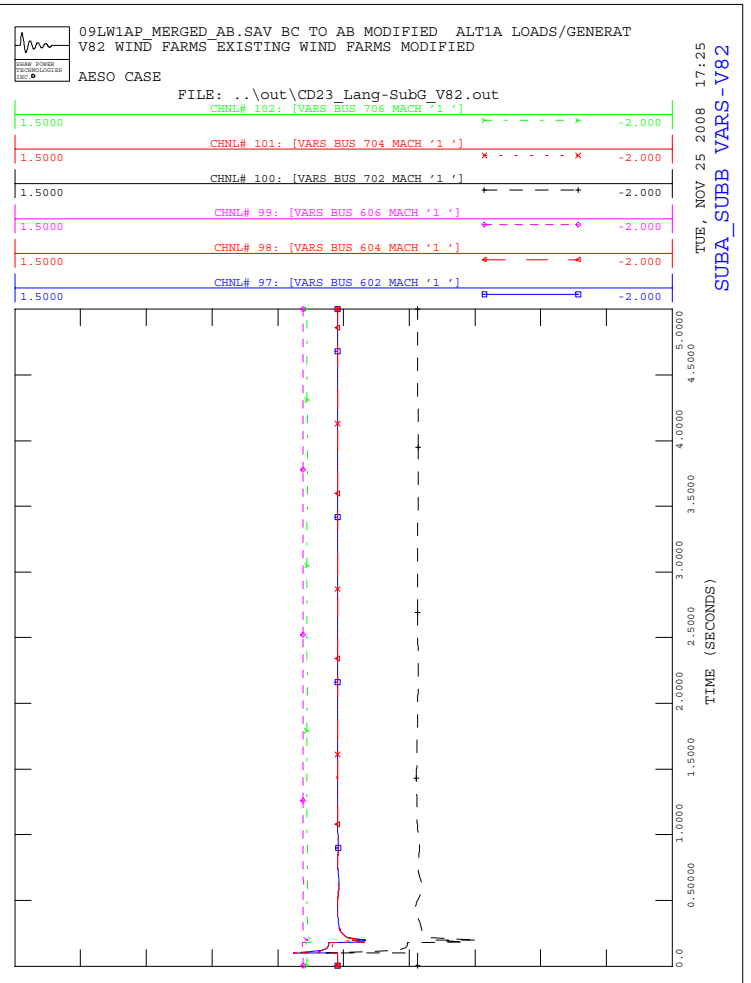
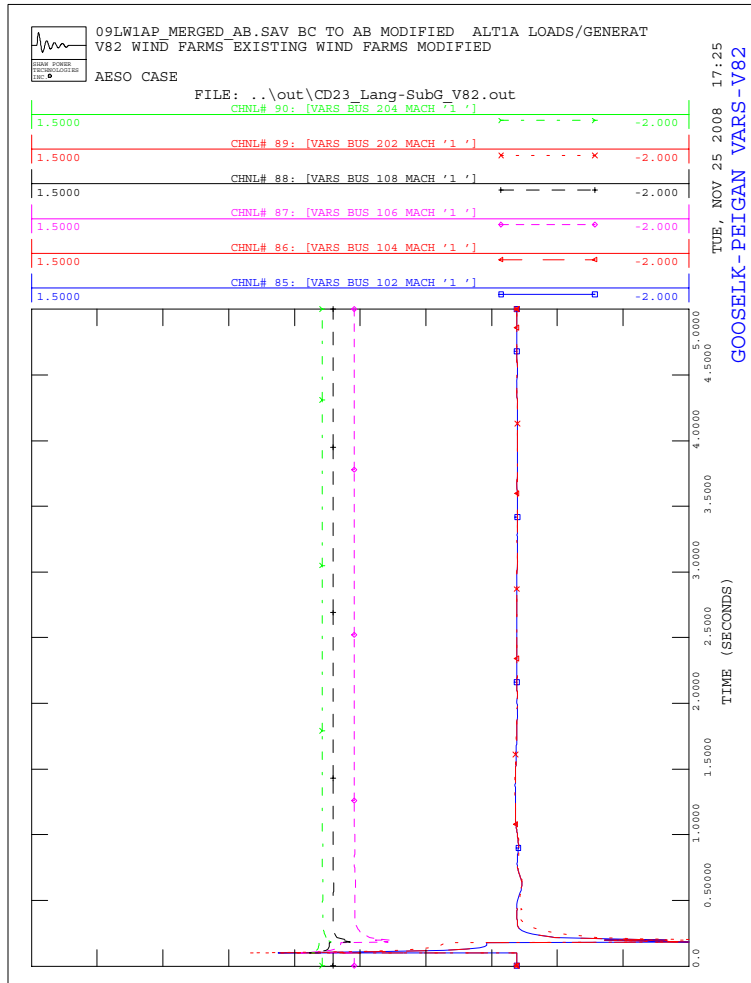


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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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AB_BC_TIE_FLOWS-V82

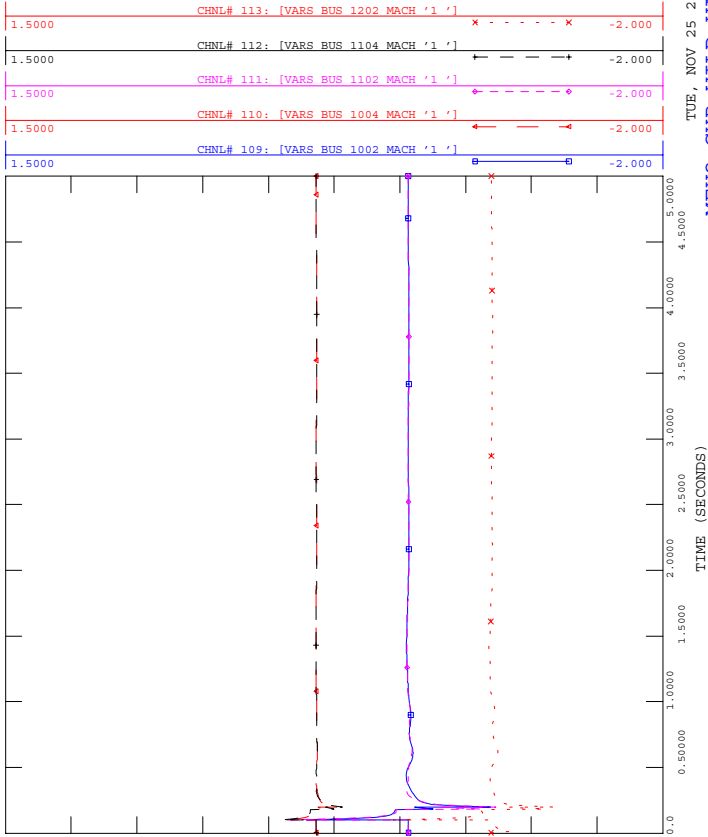






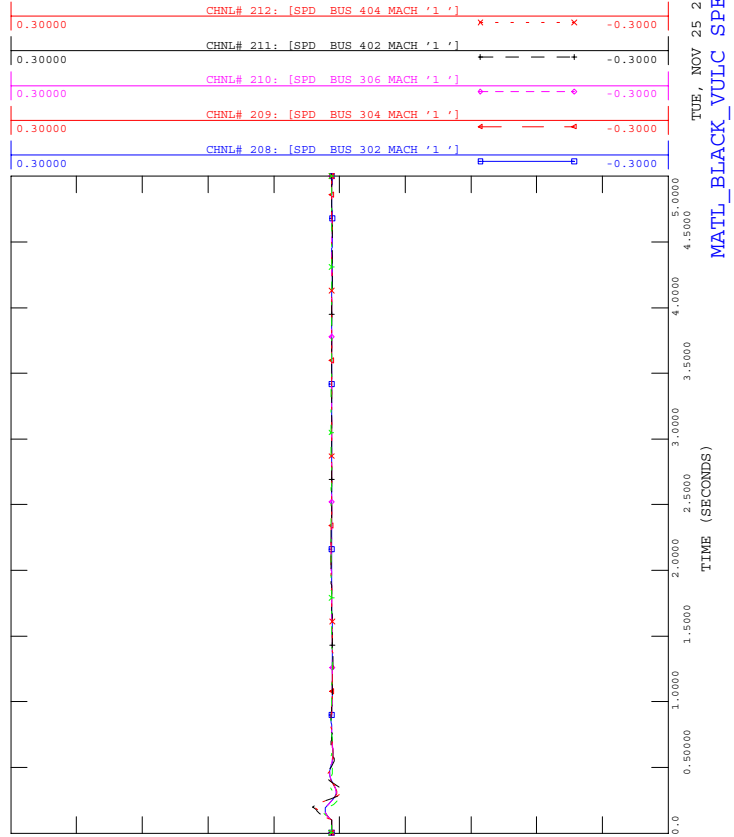
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 AESO CASE

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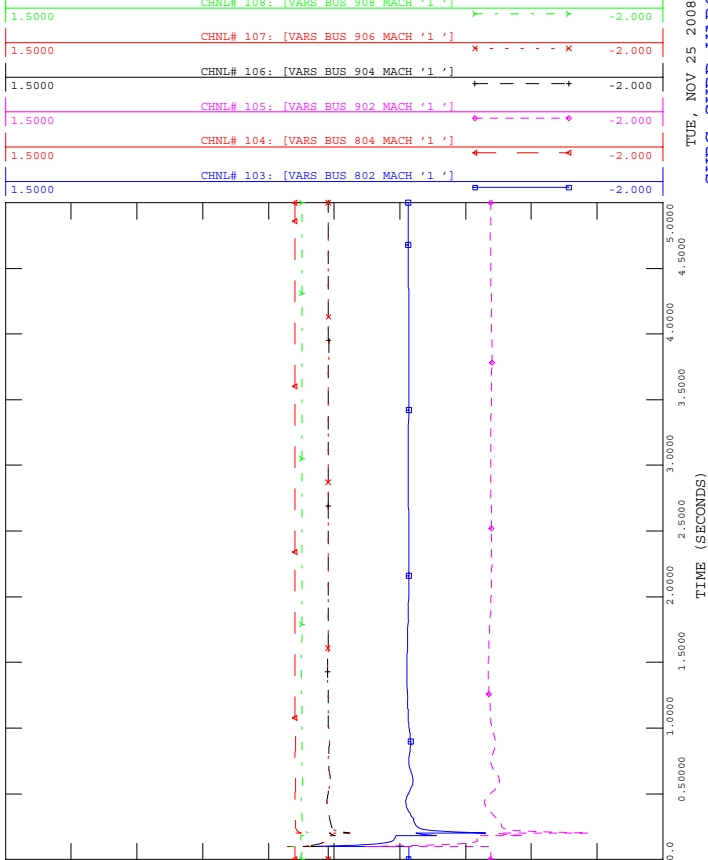
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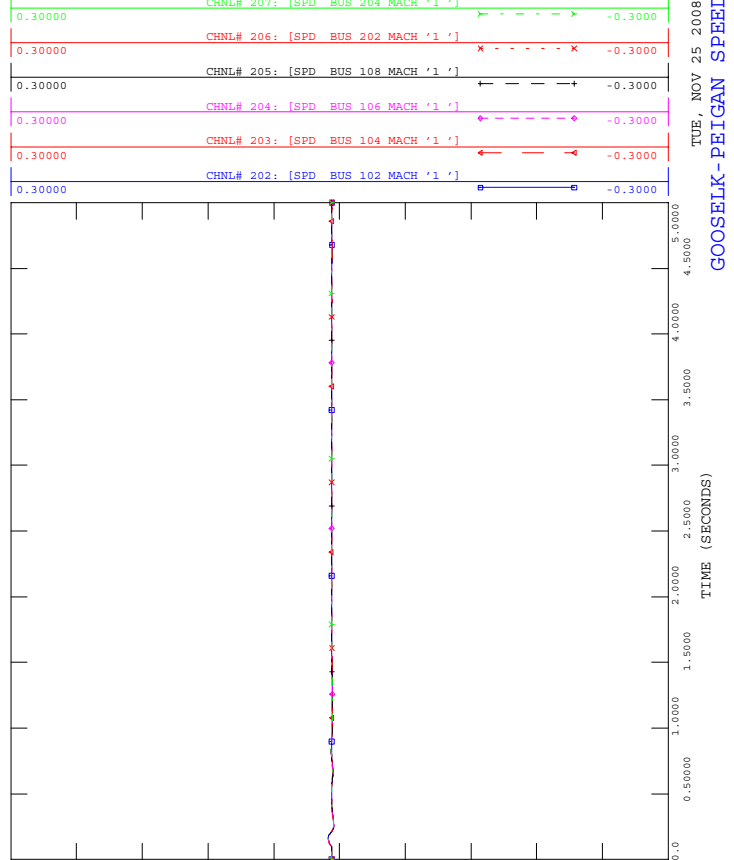
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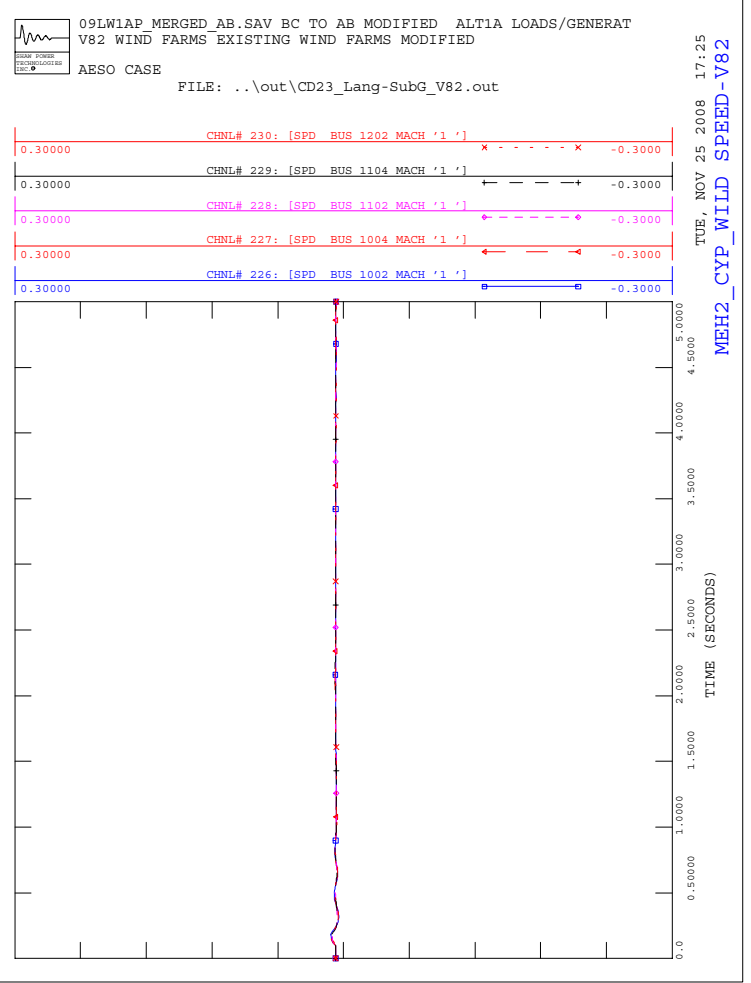
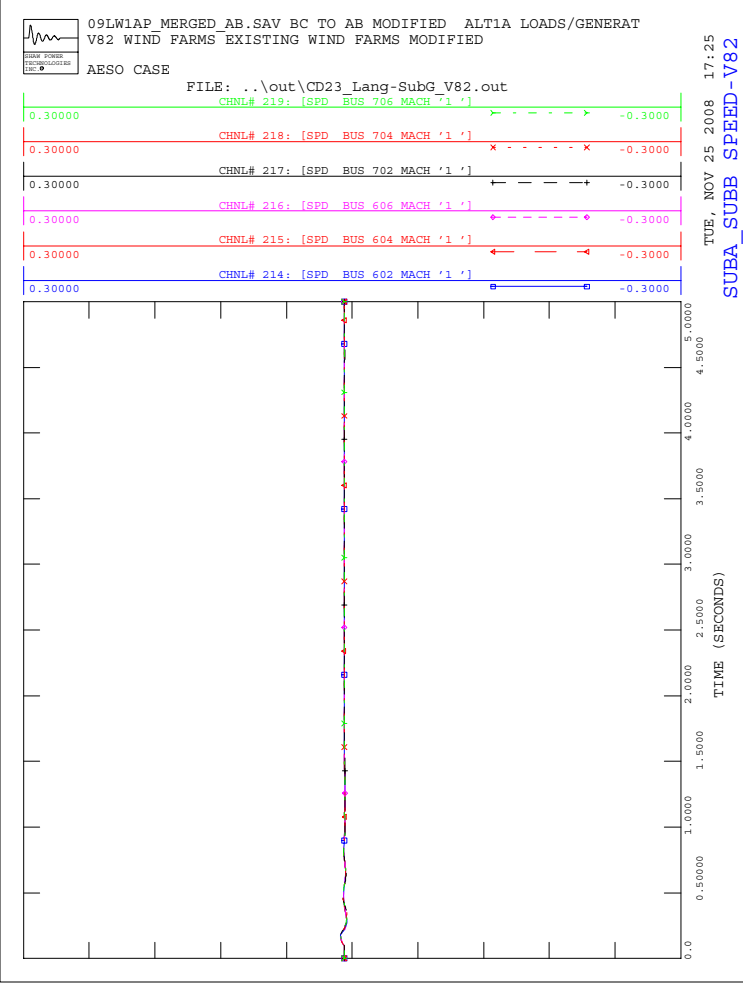
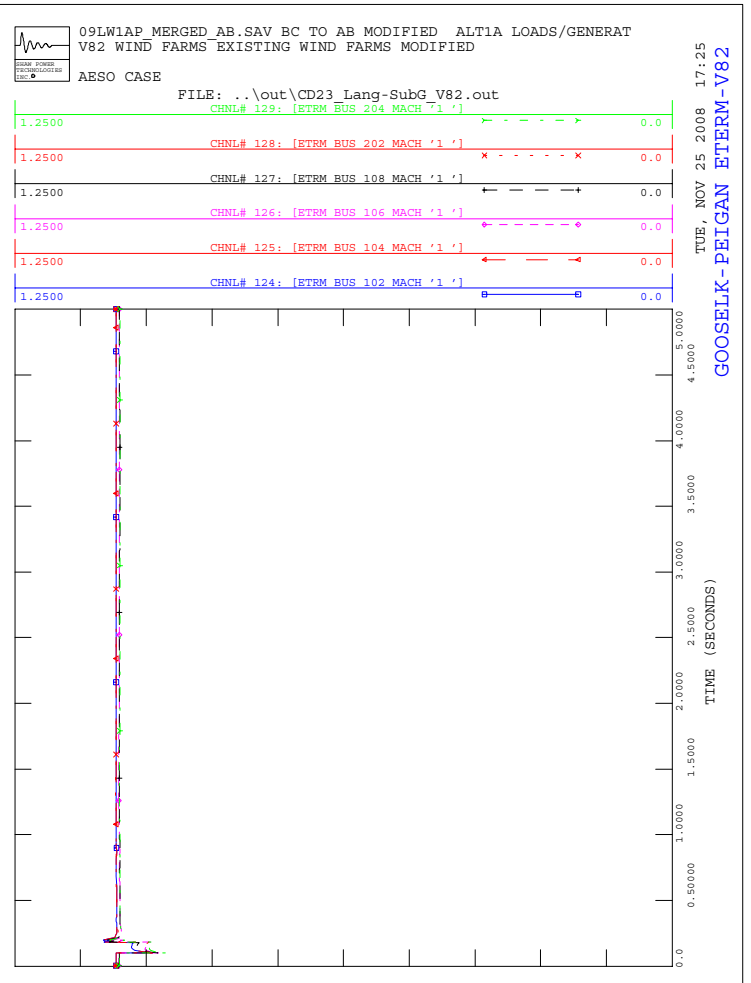
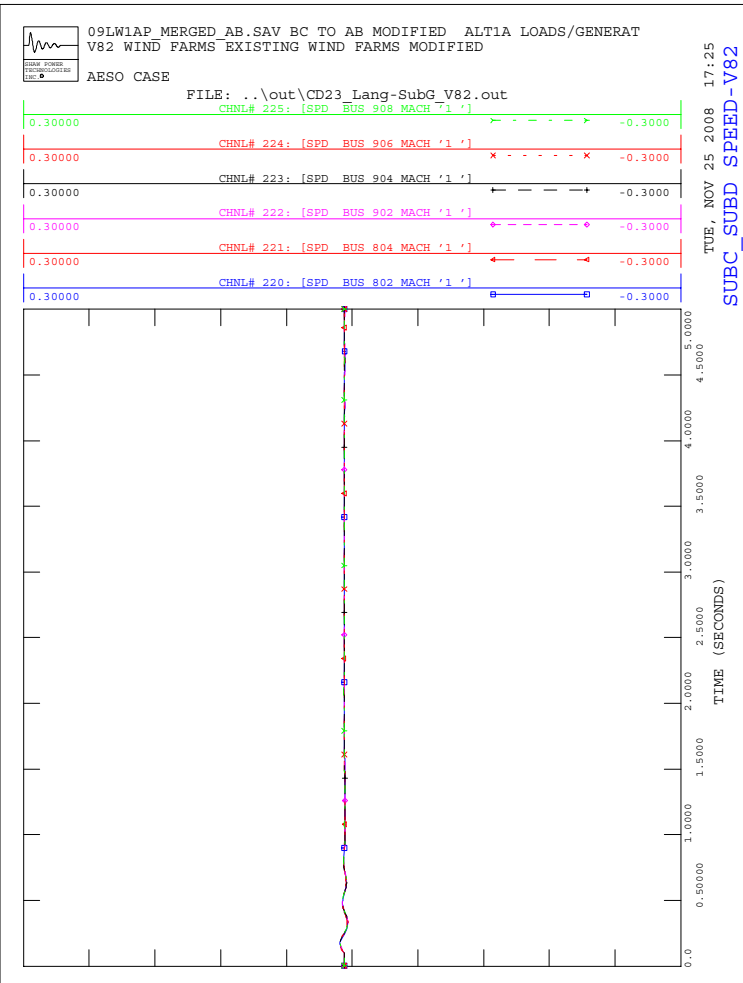
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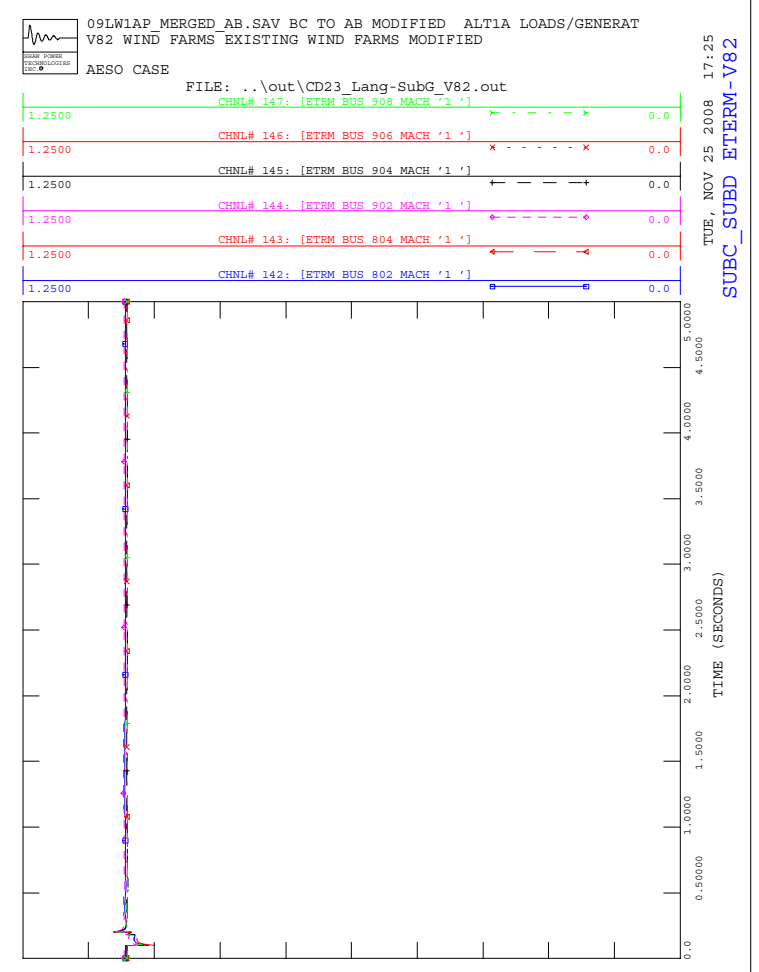
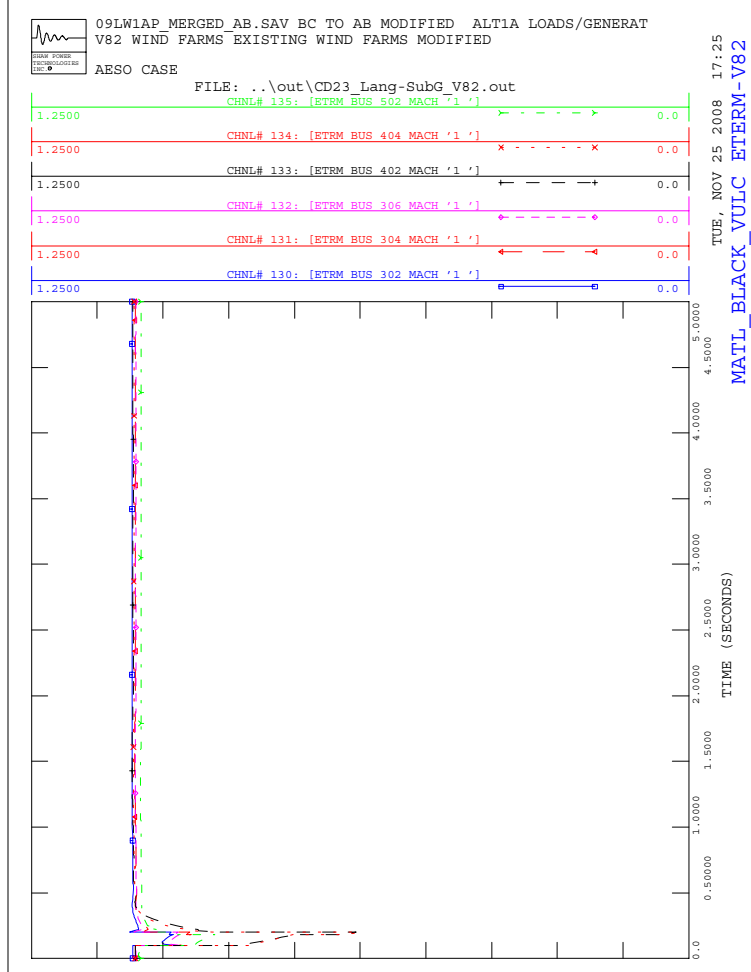
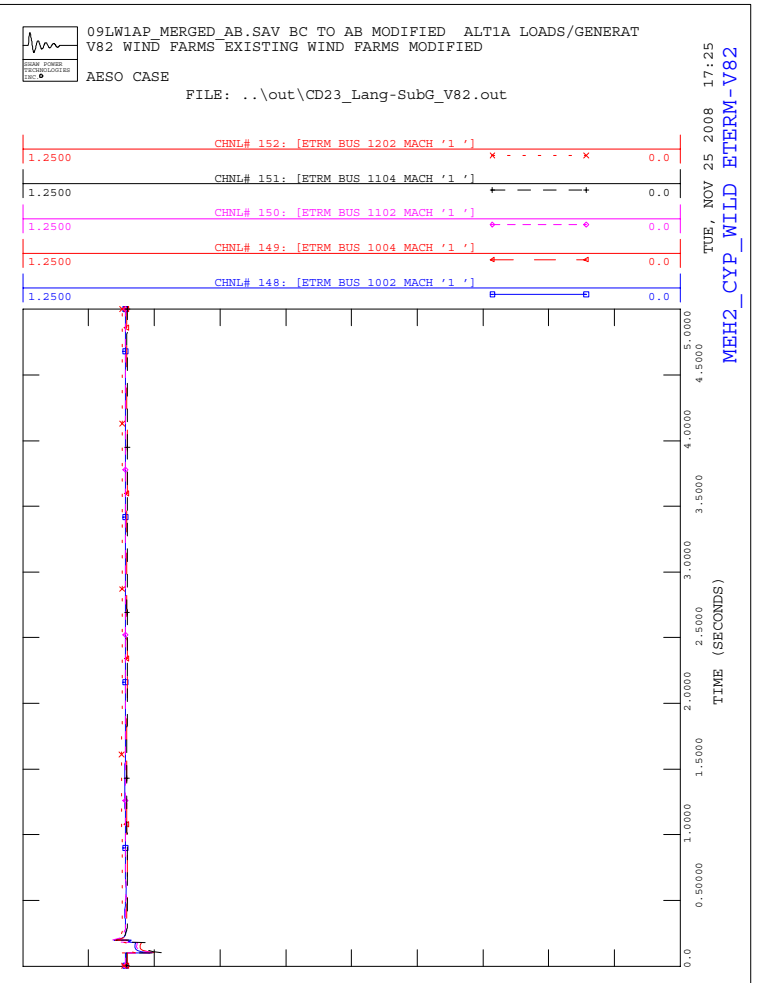
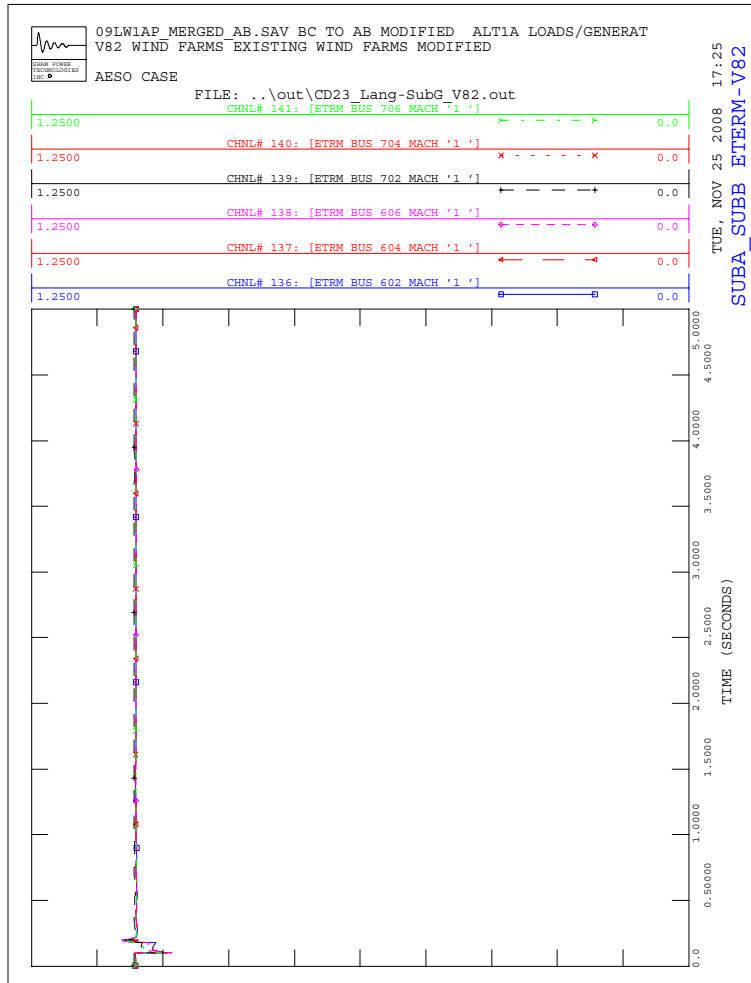


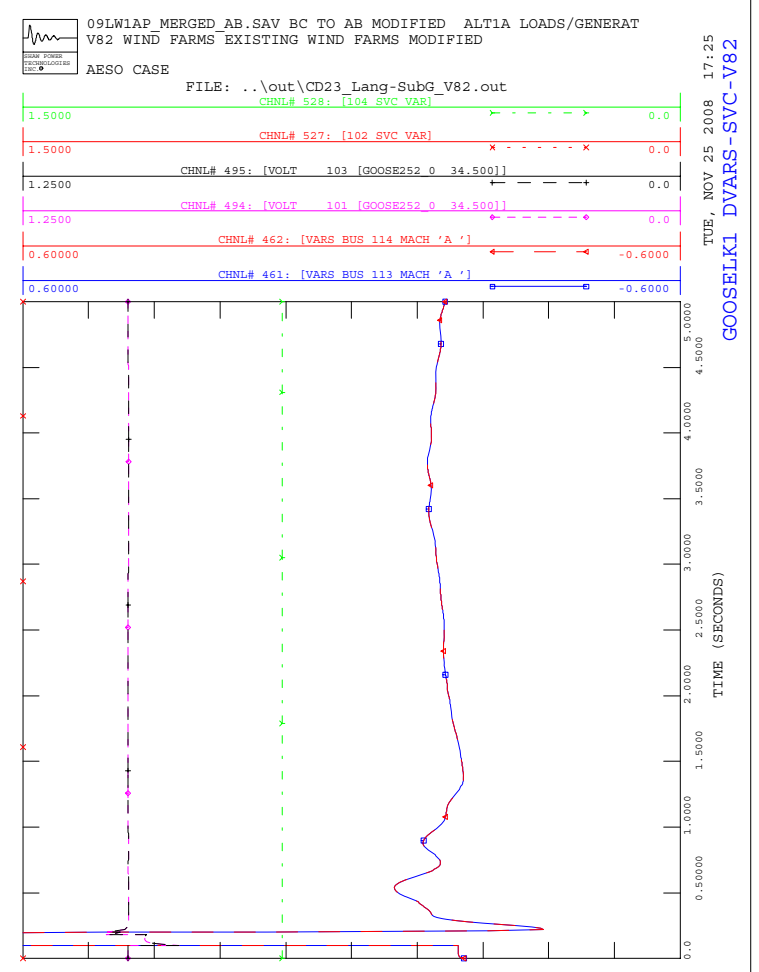
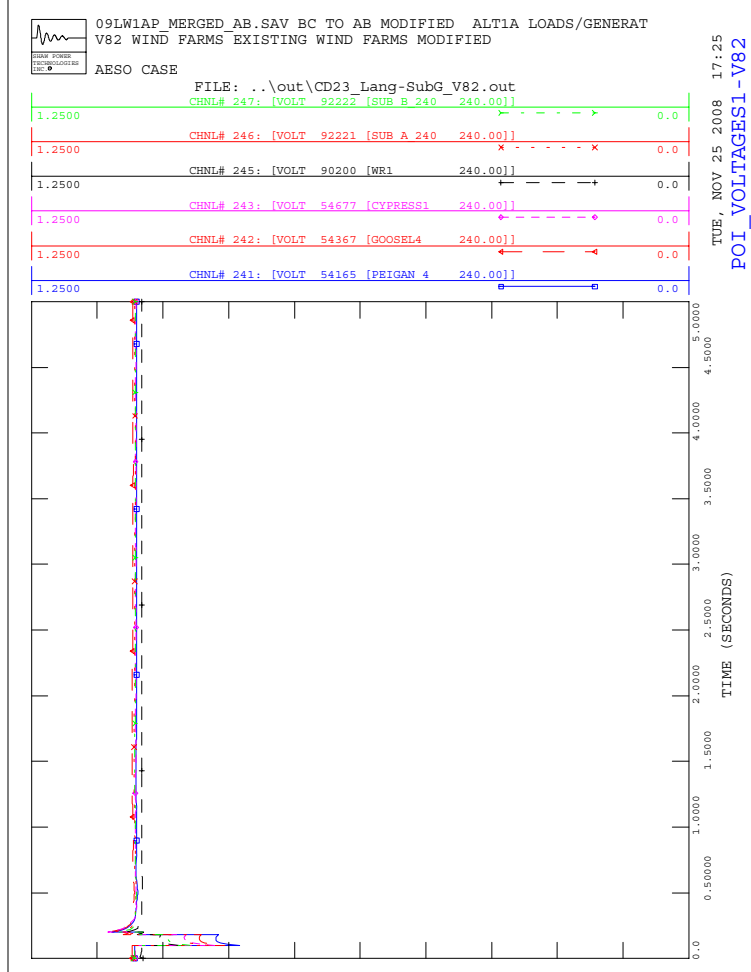
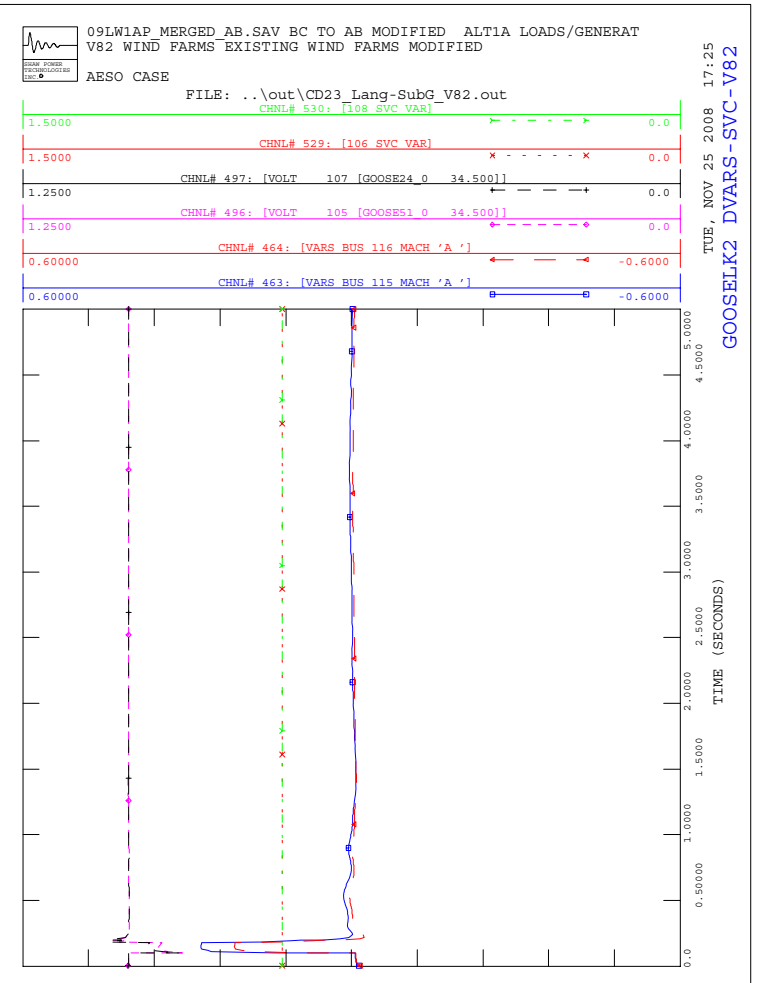
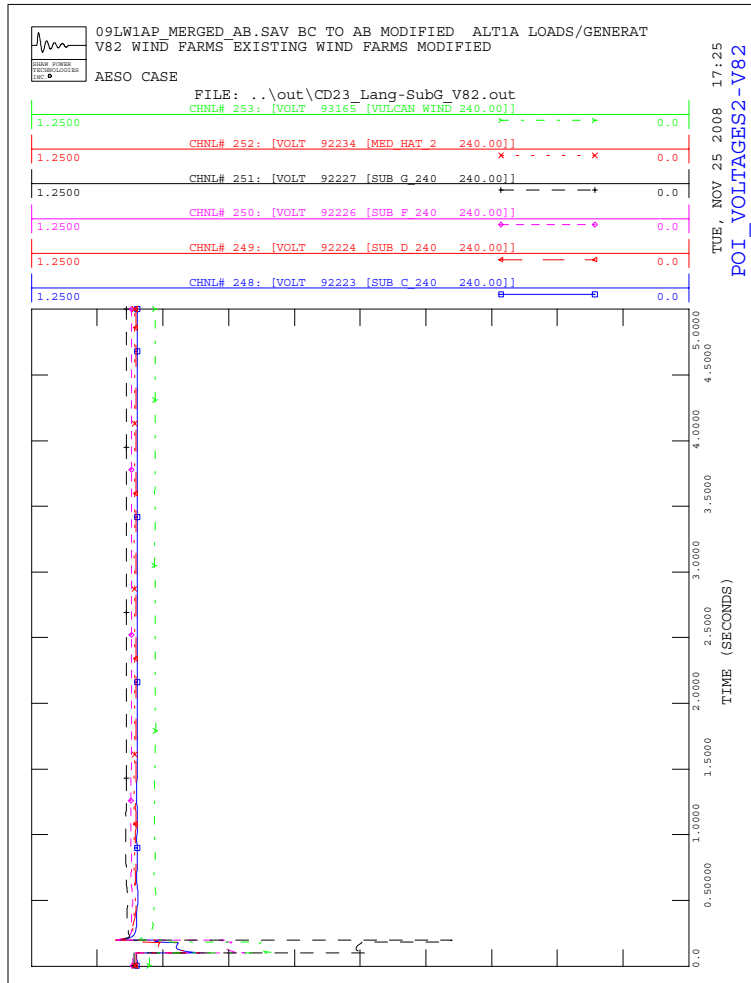
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

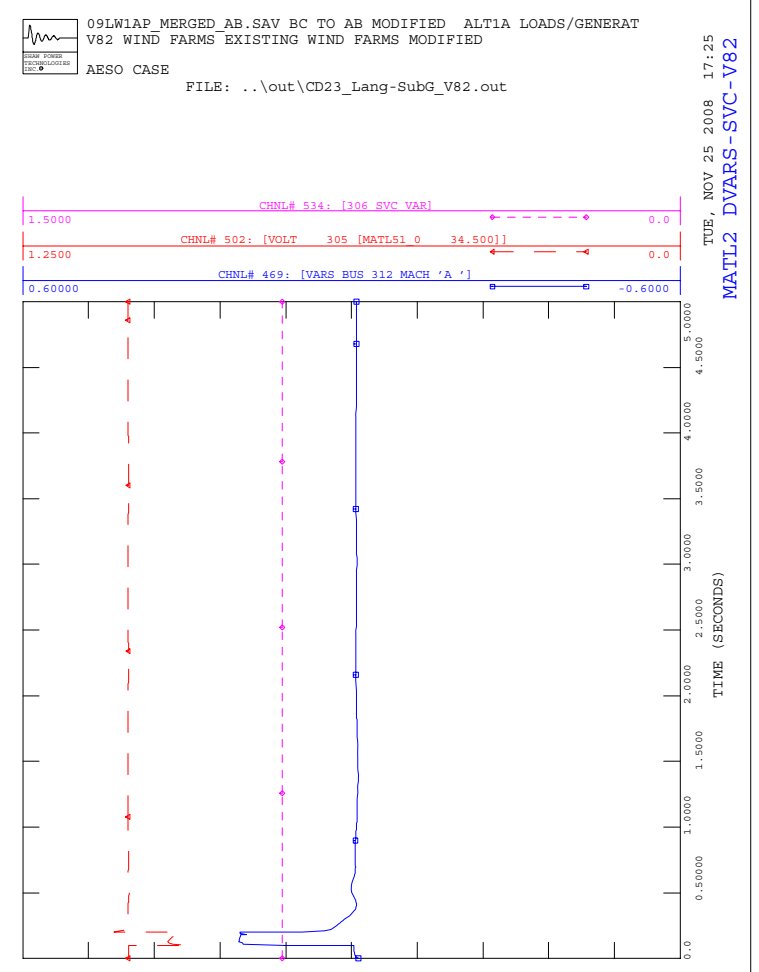
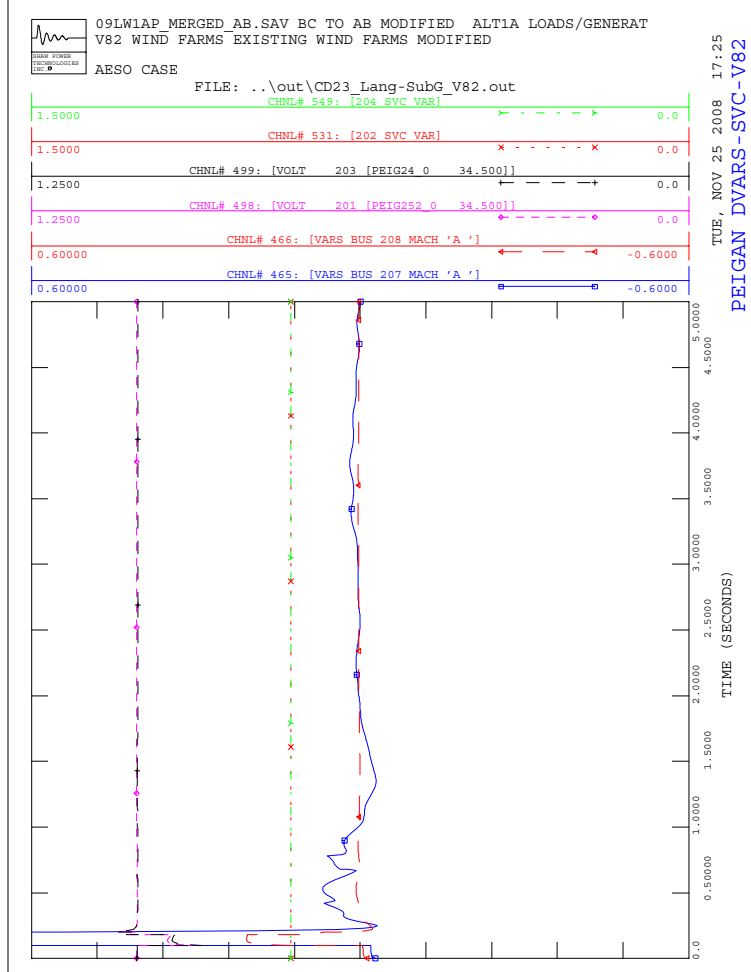
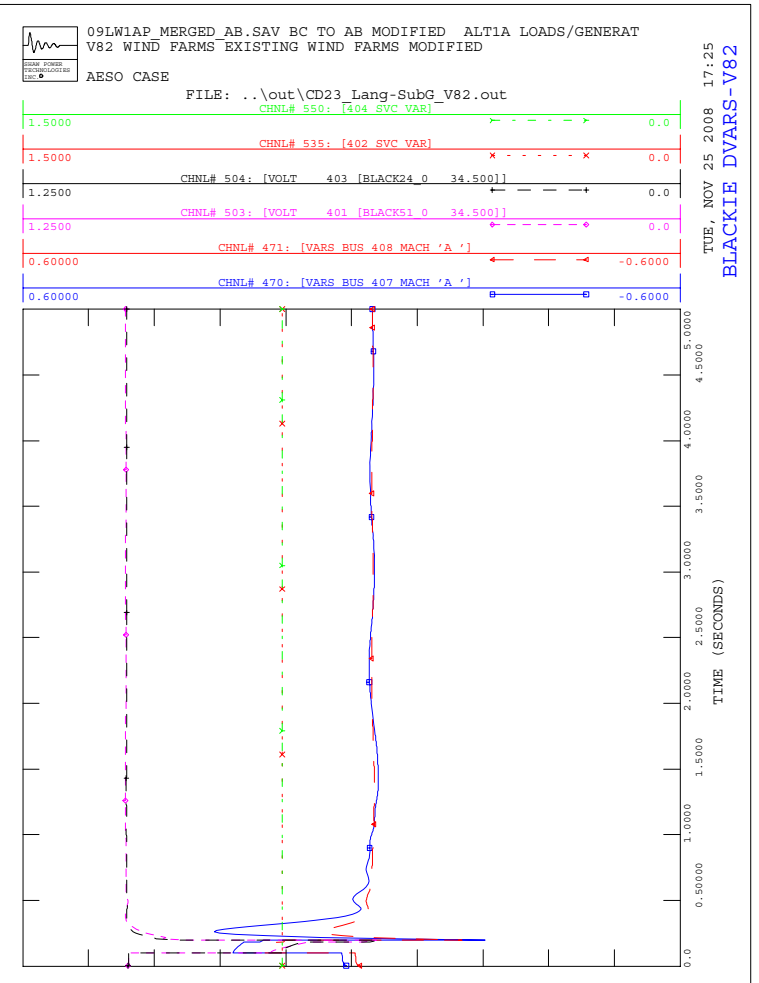
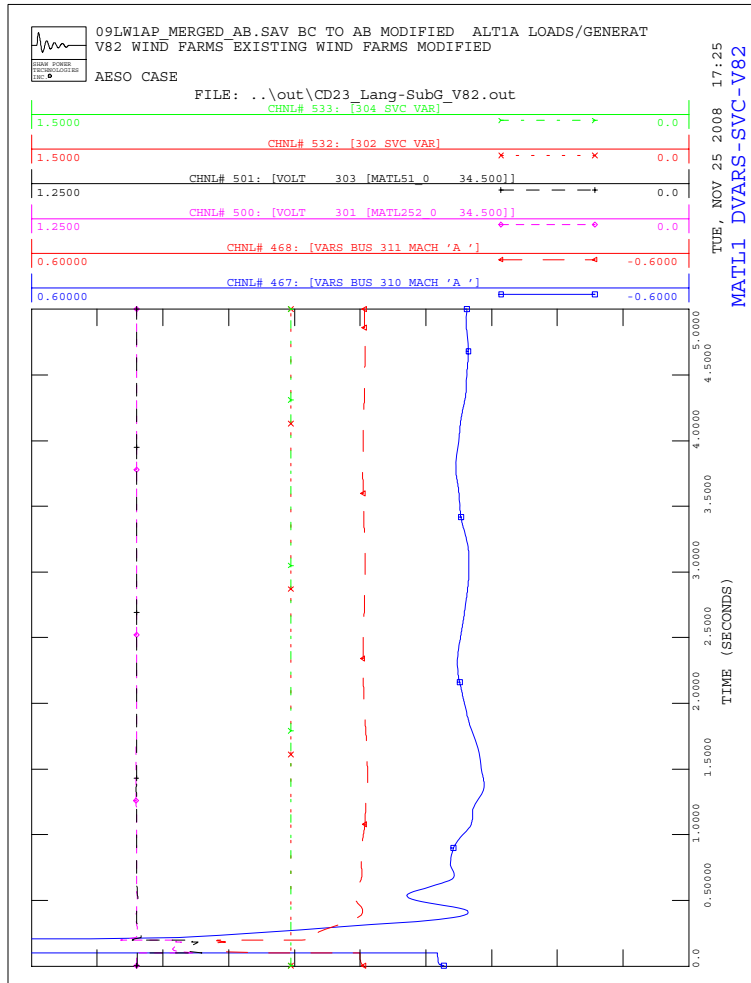
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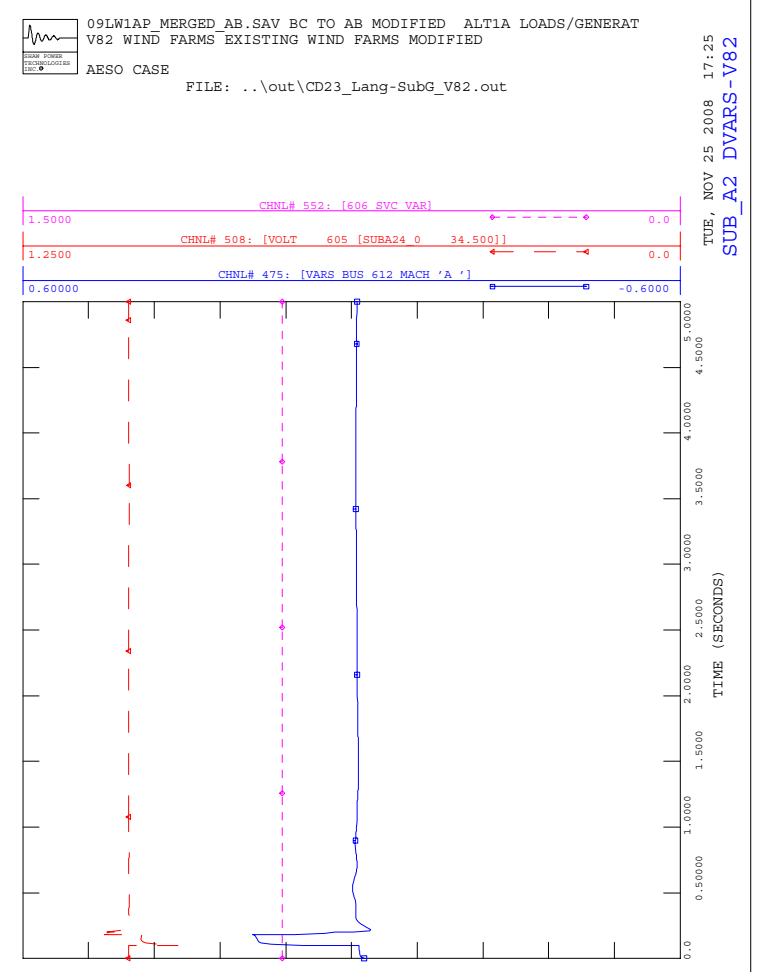
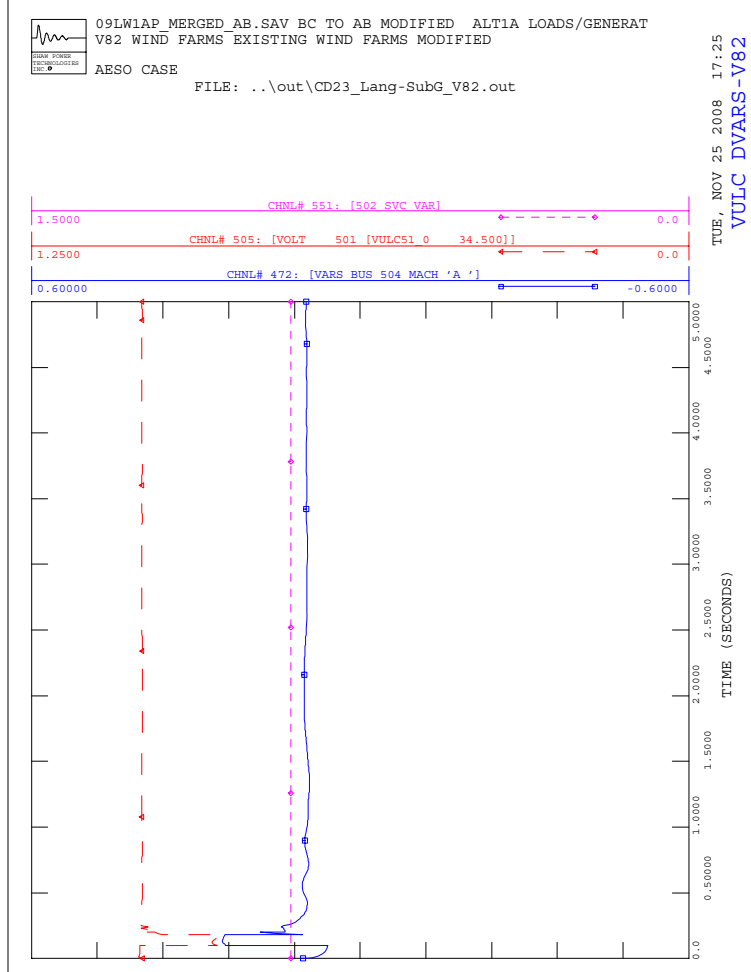
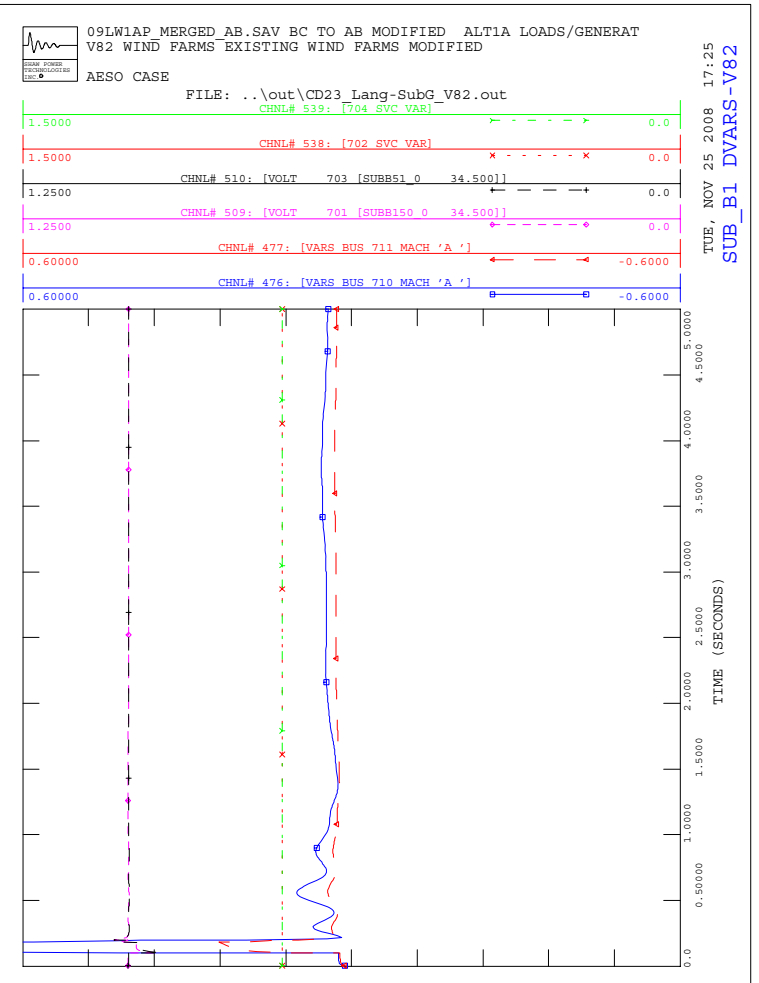
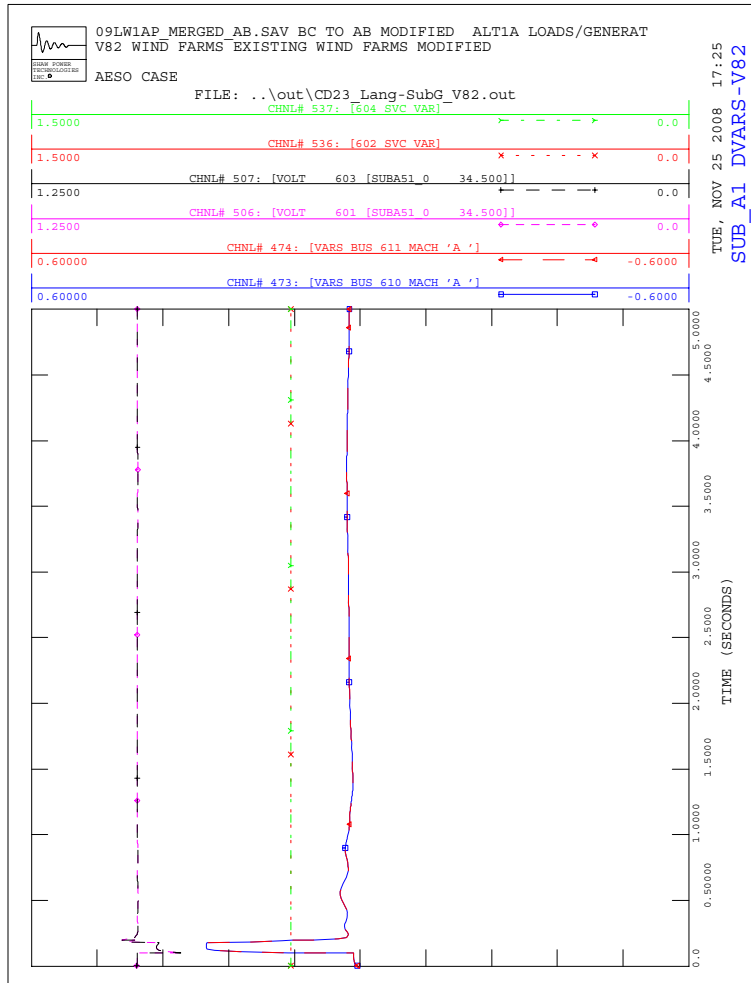


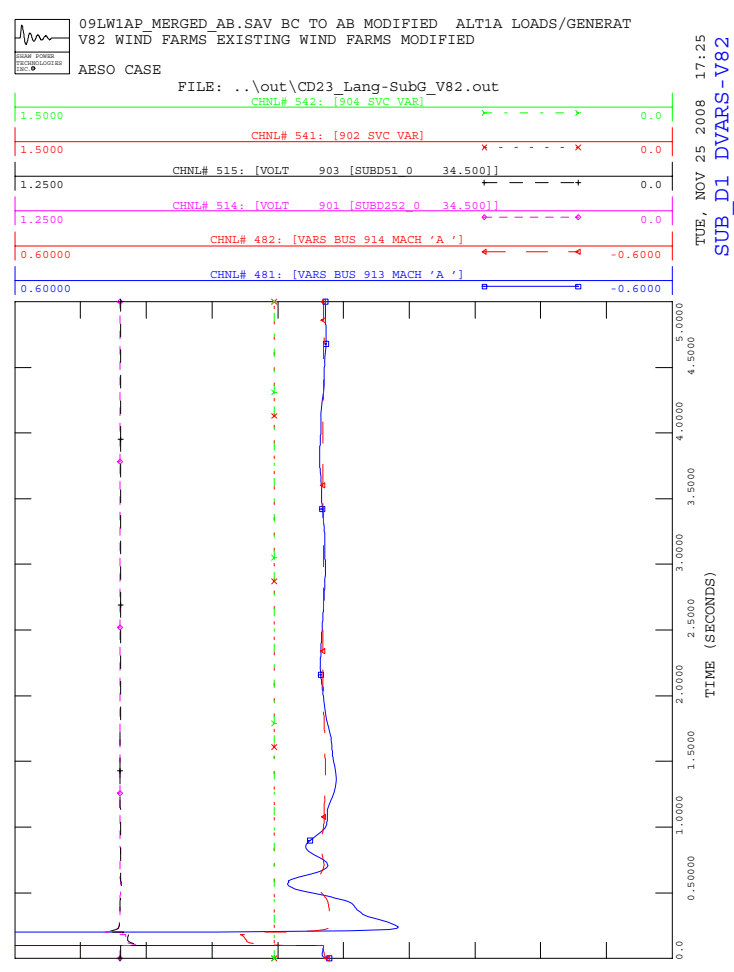
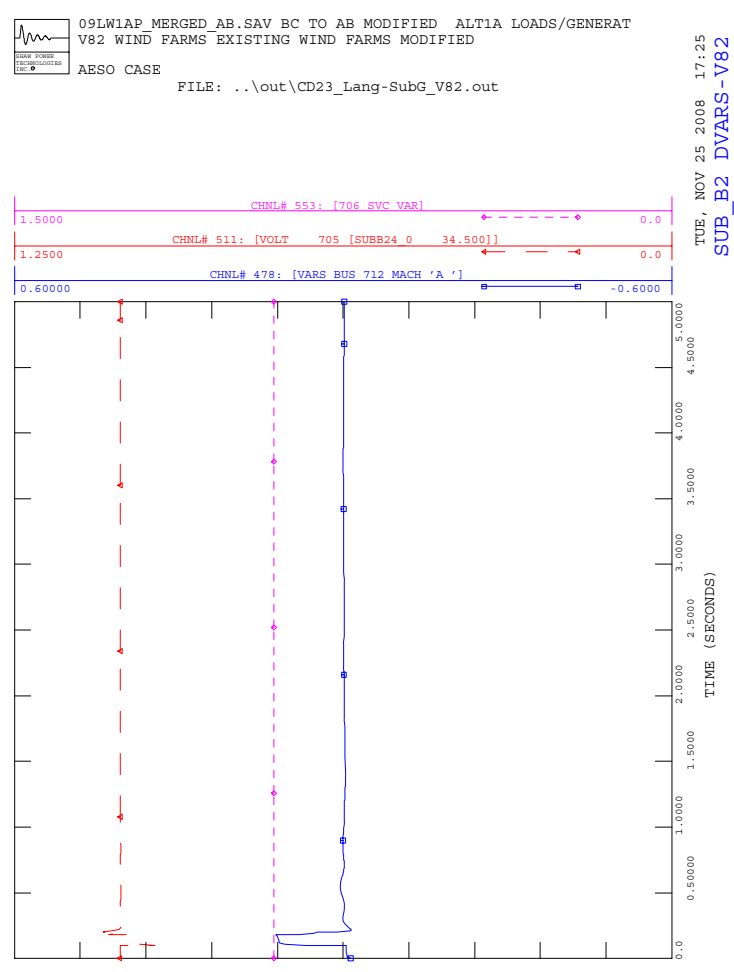
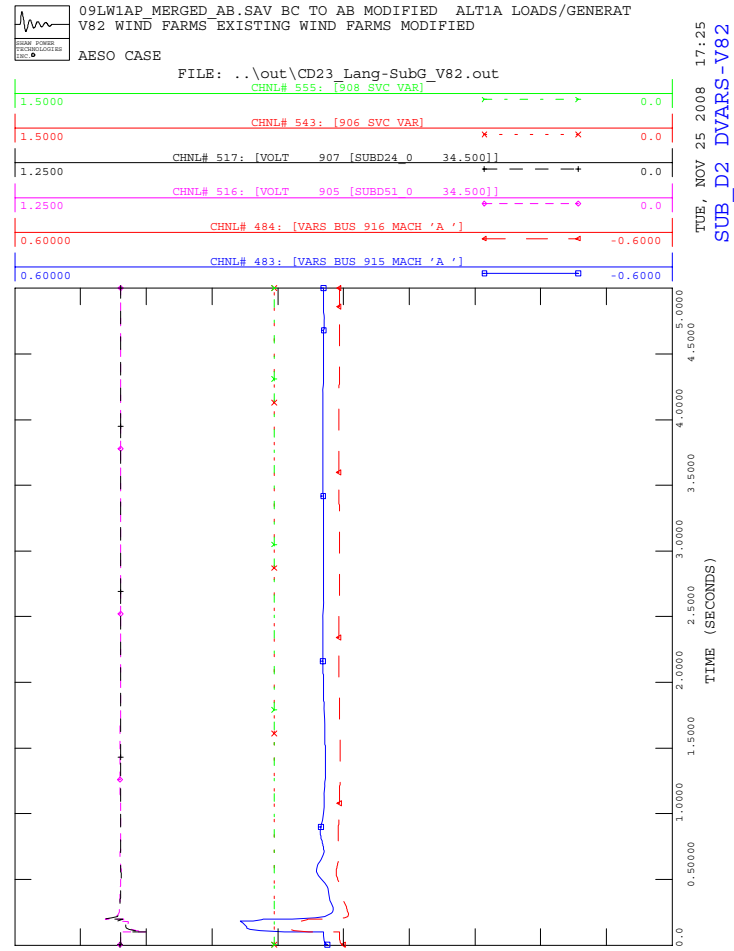
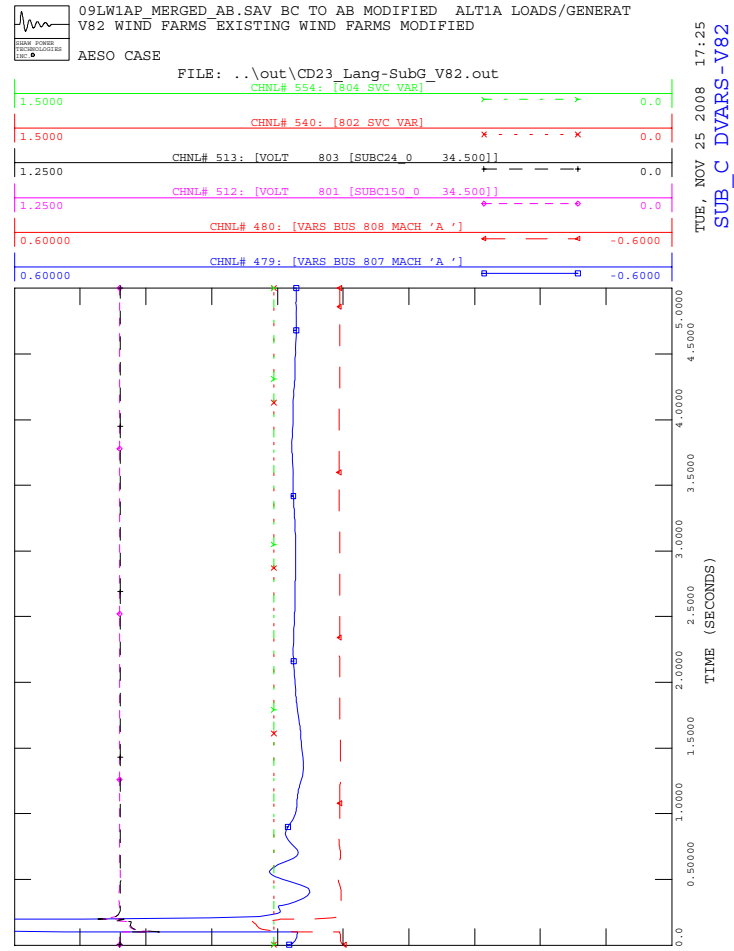


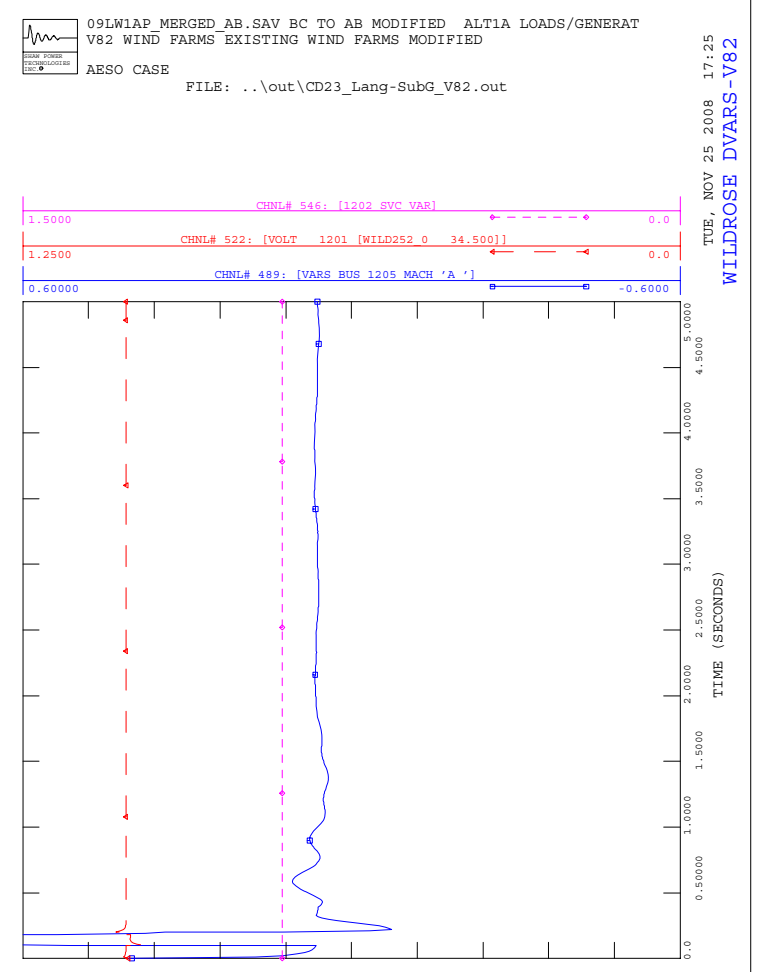
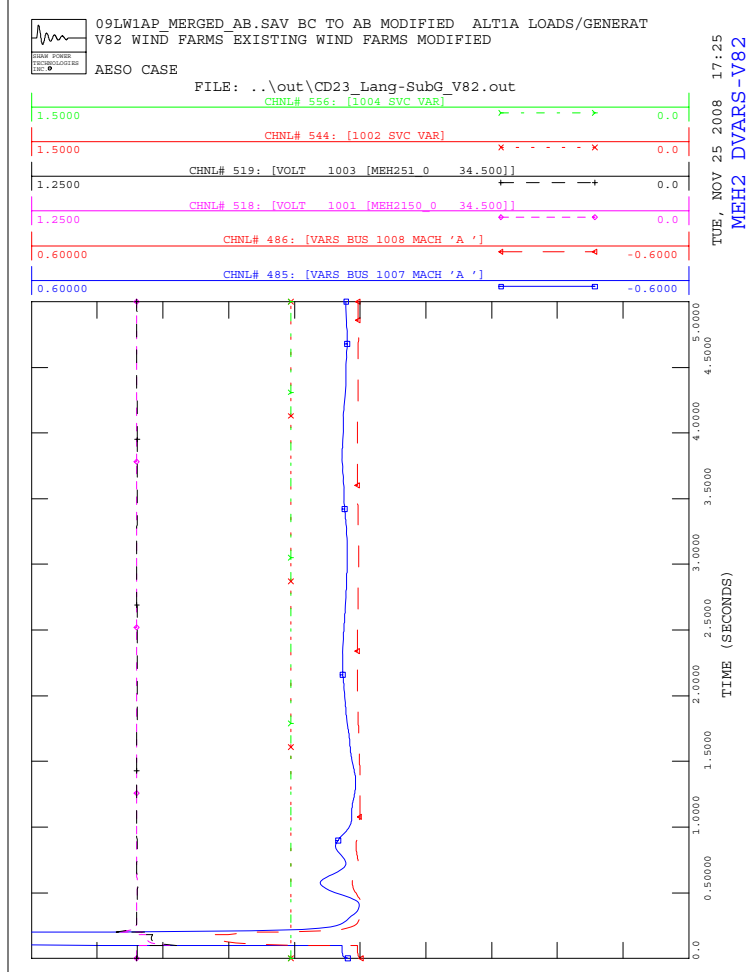
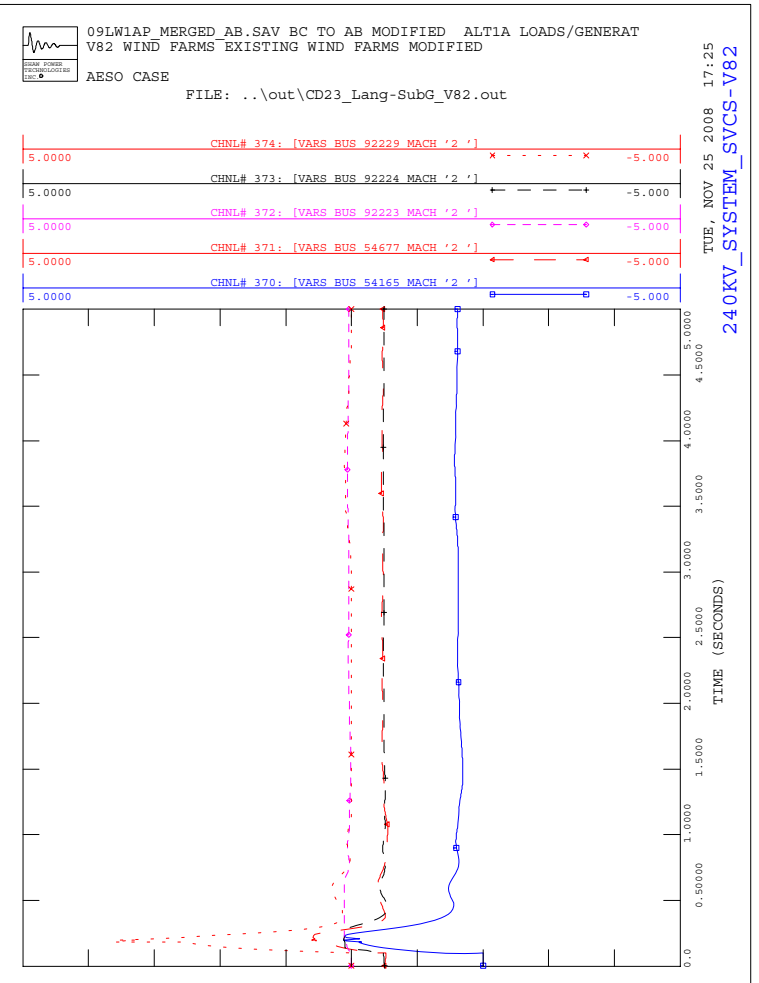
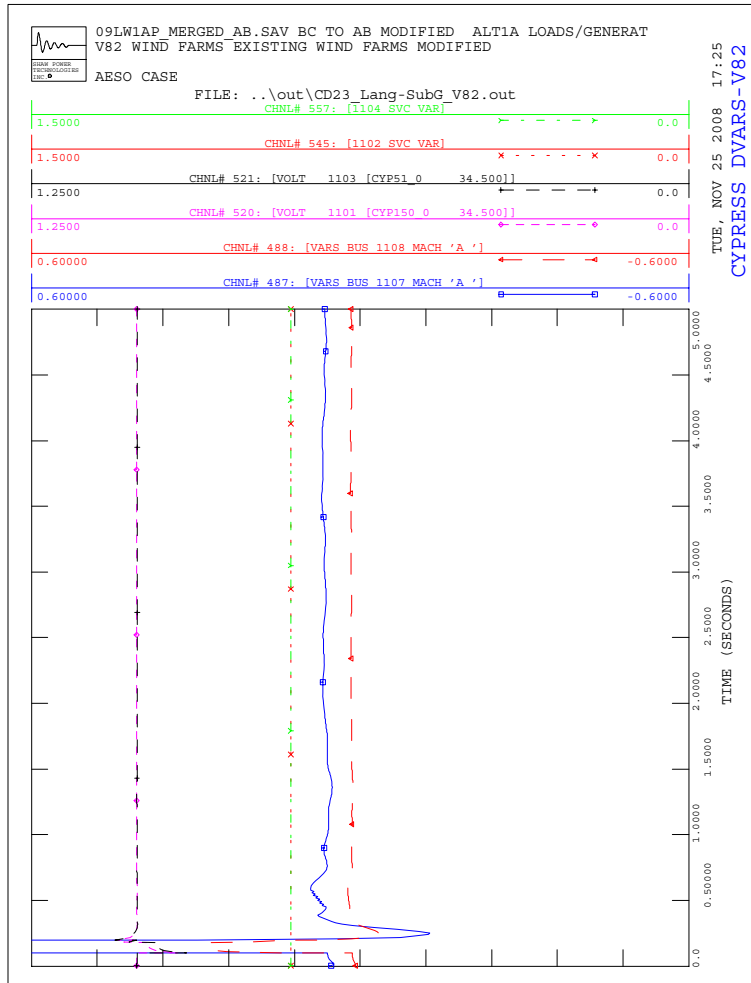












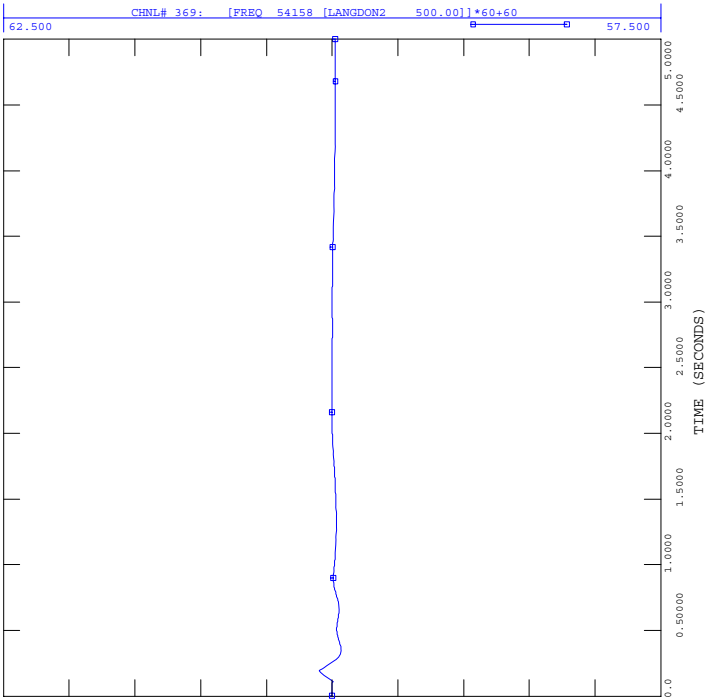


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD23_Lang-SubG_V82.out

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LANGDON_FRQ-V82

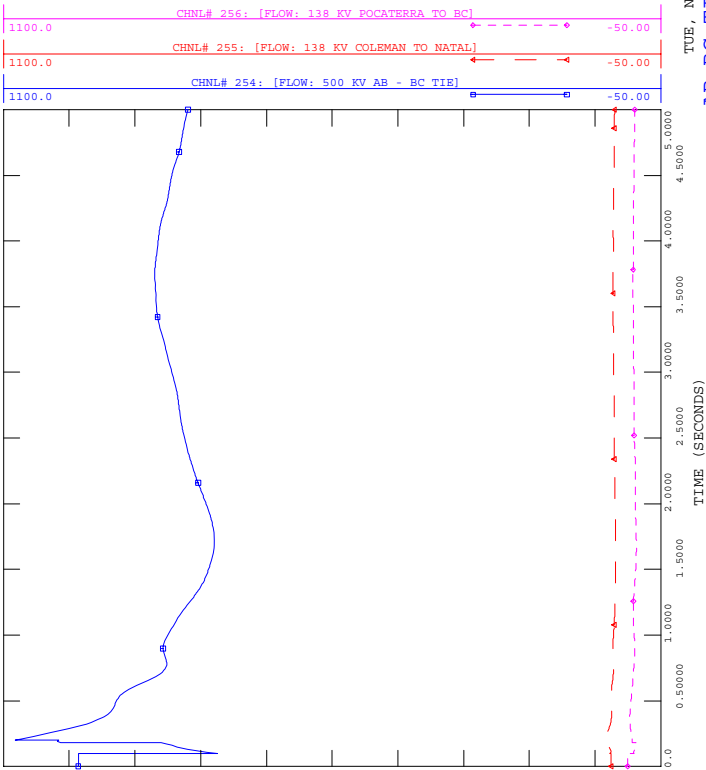


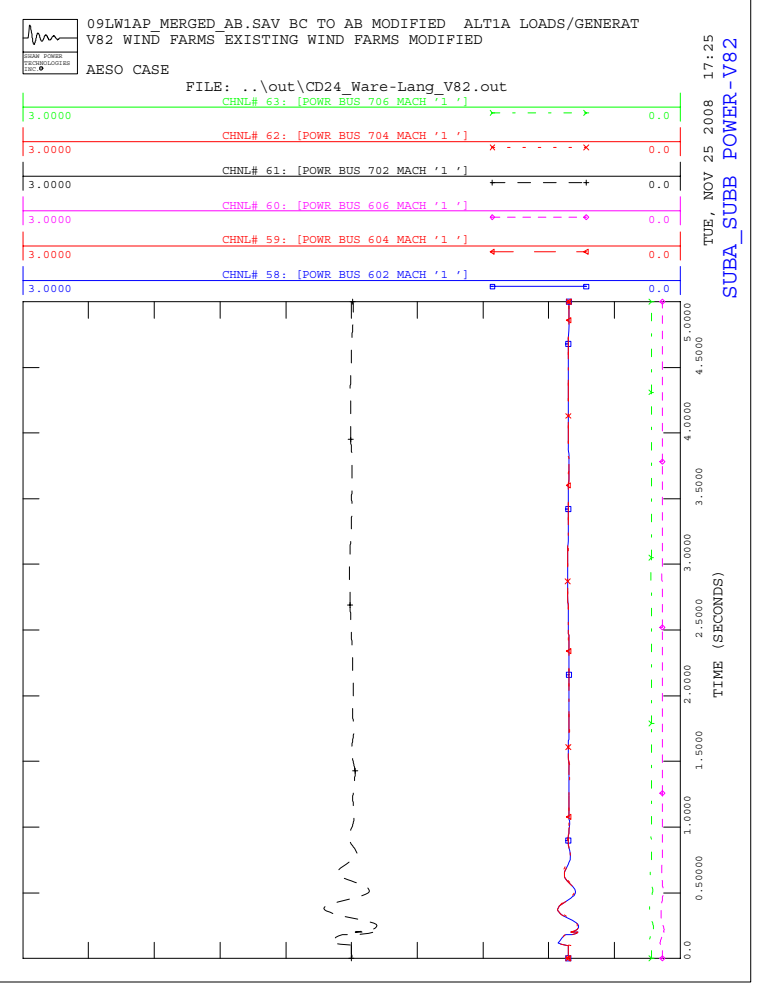
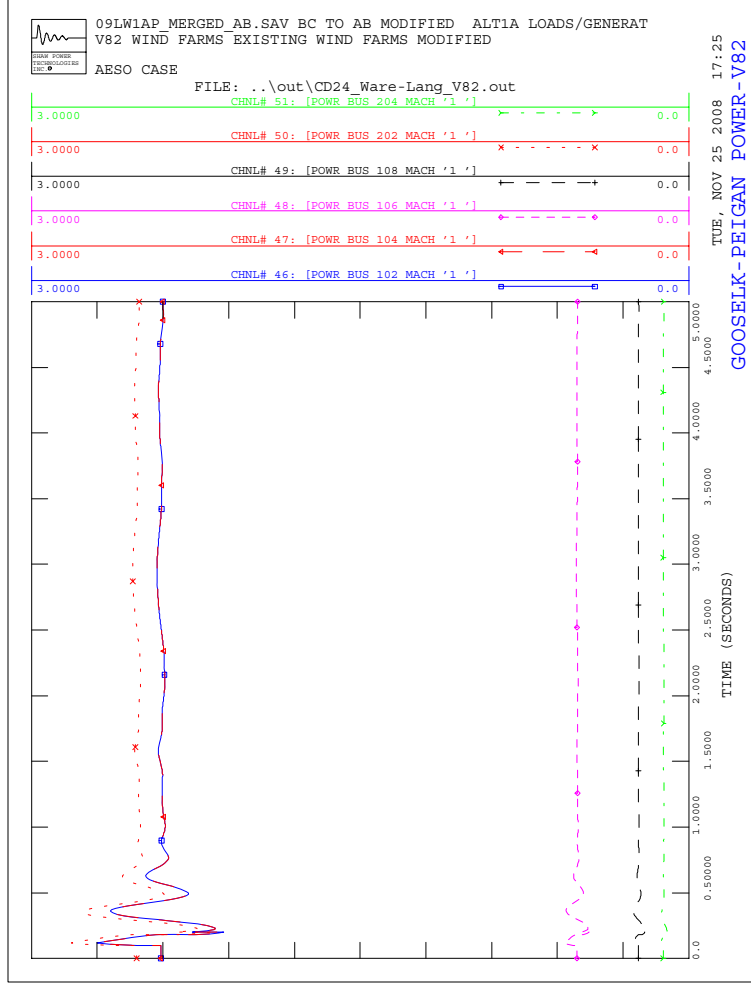
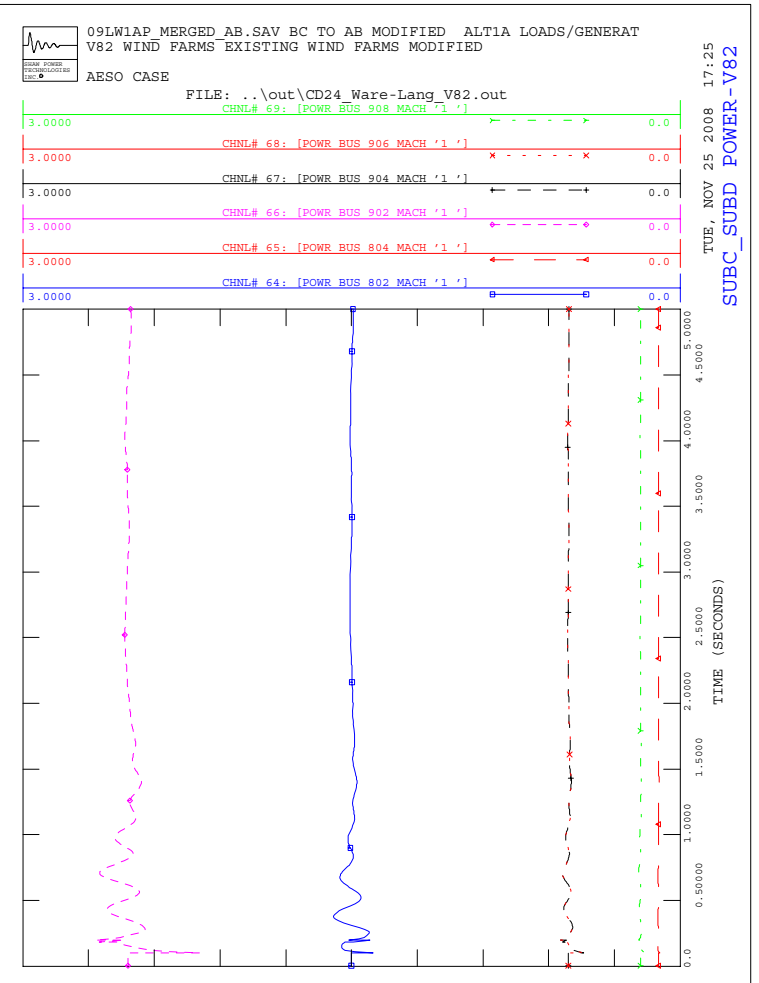
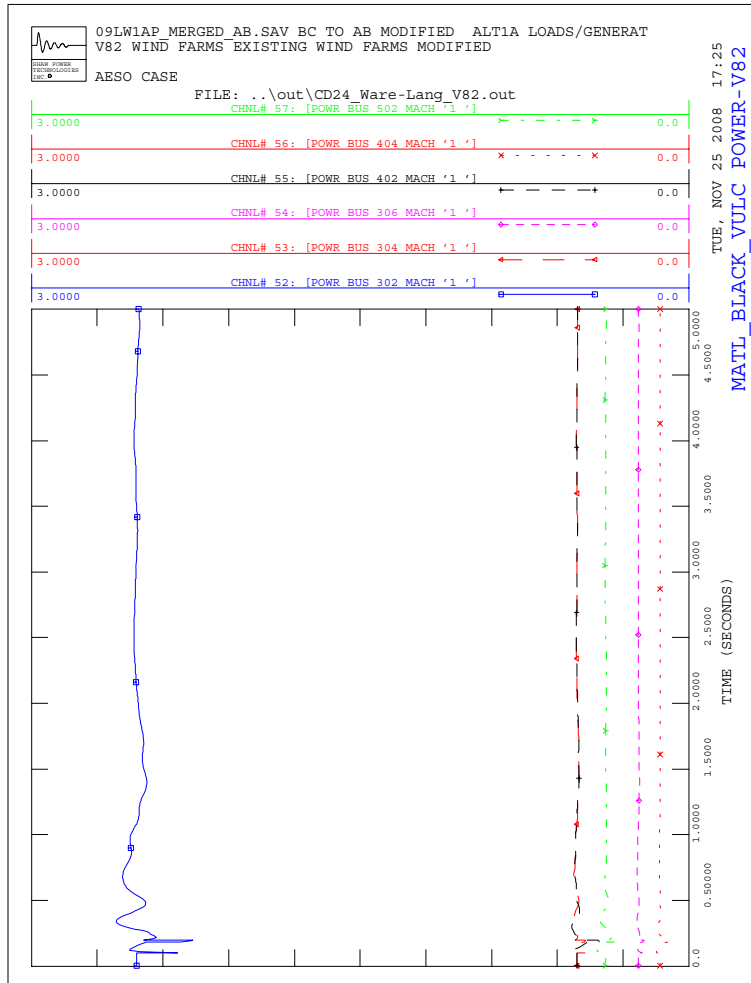
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

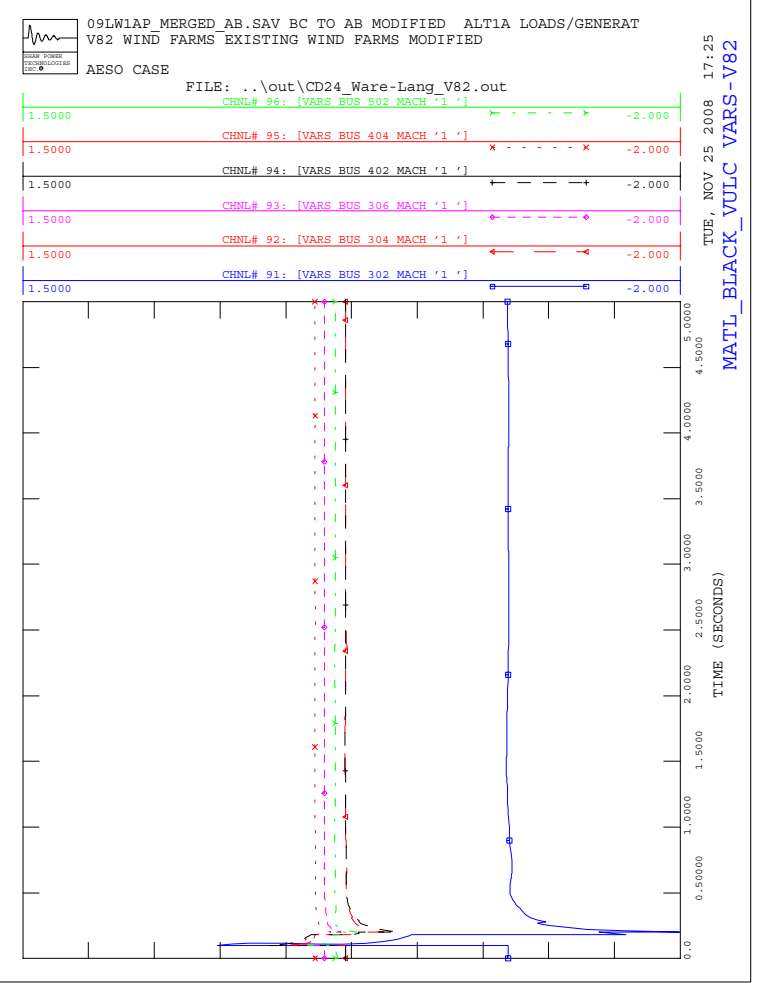
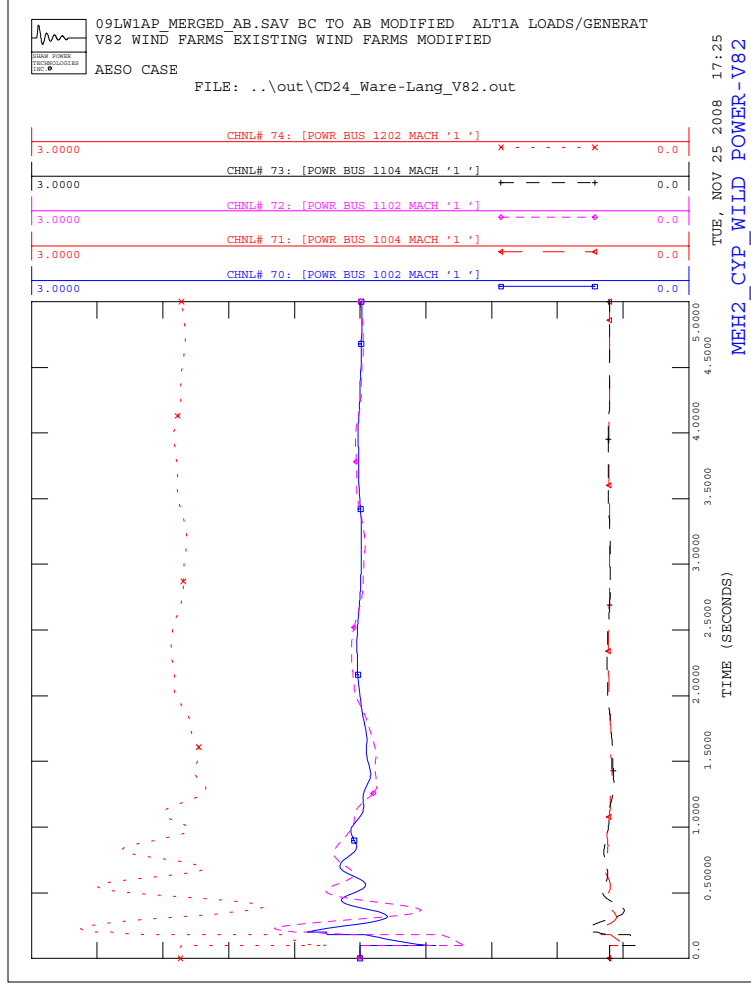
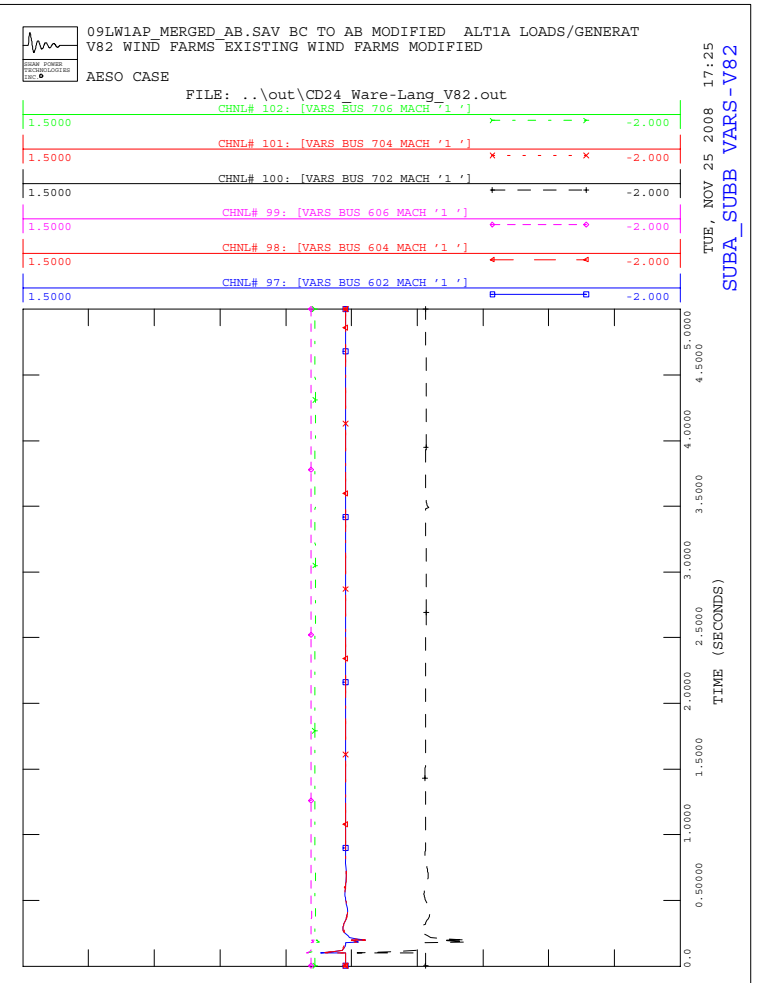
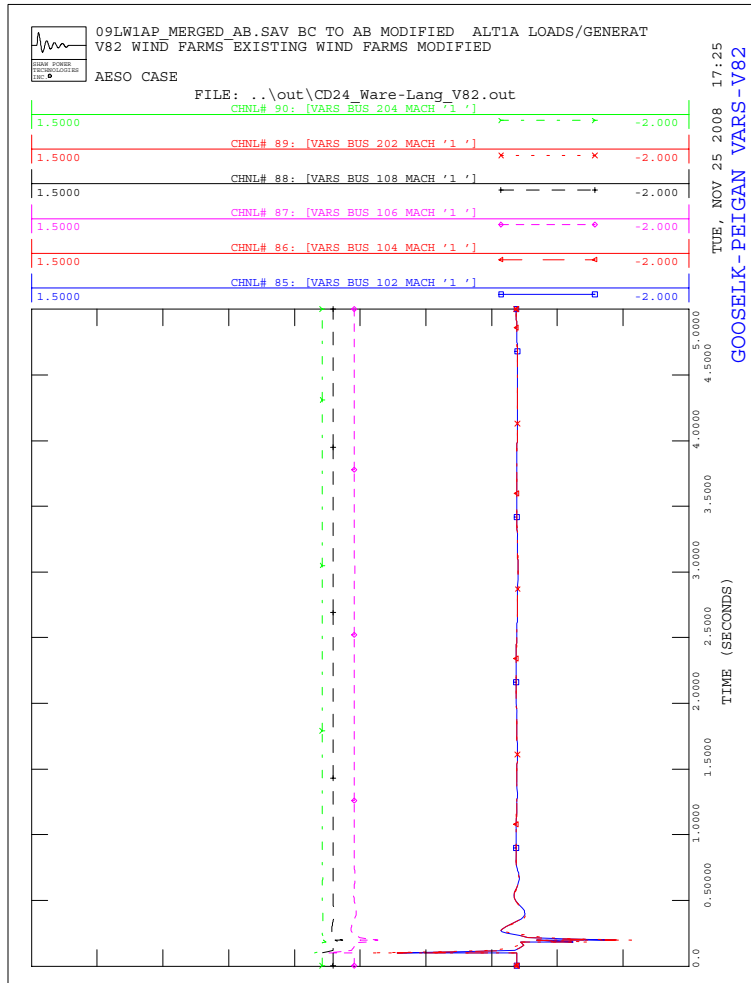
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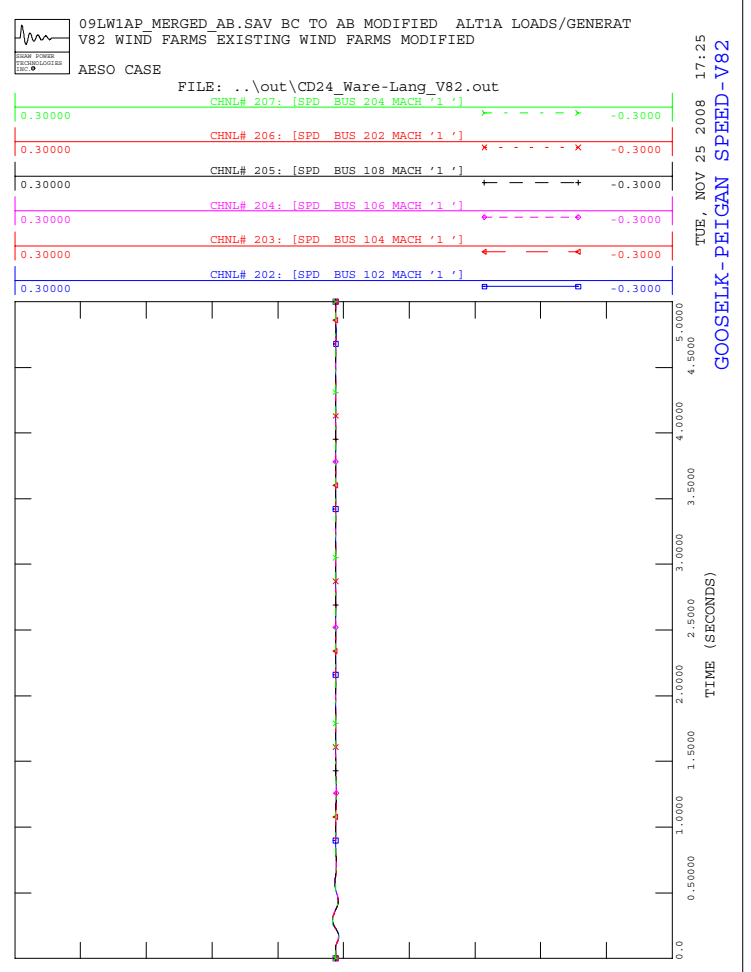
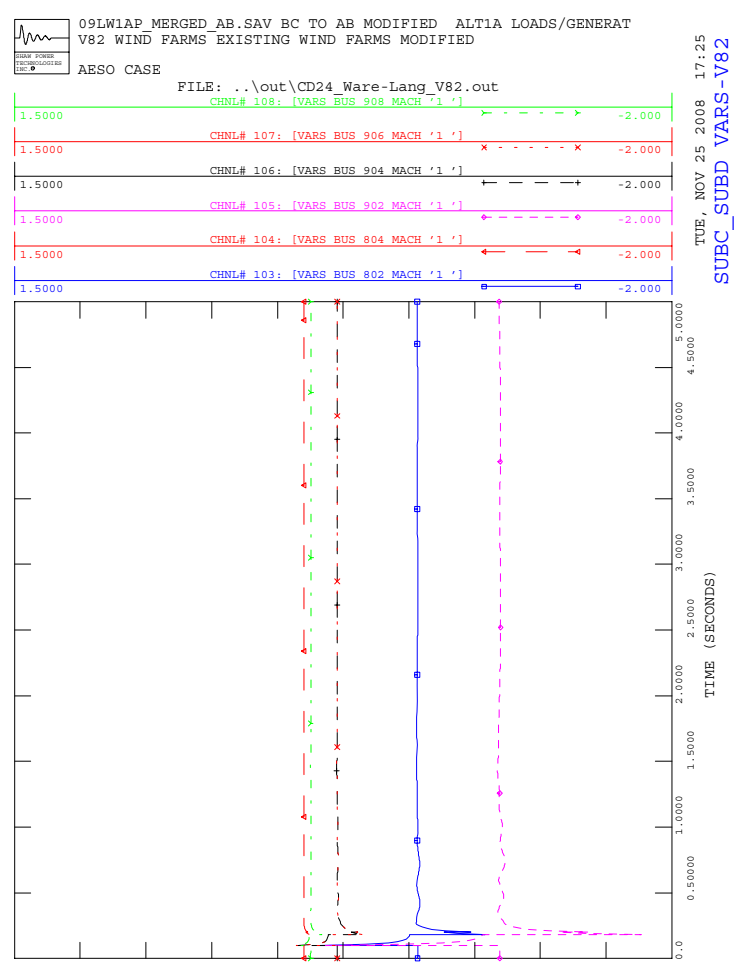
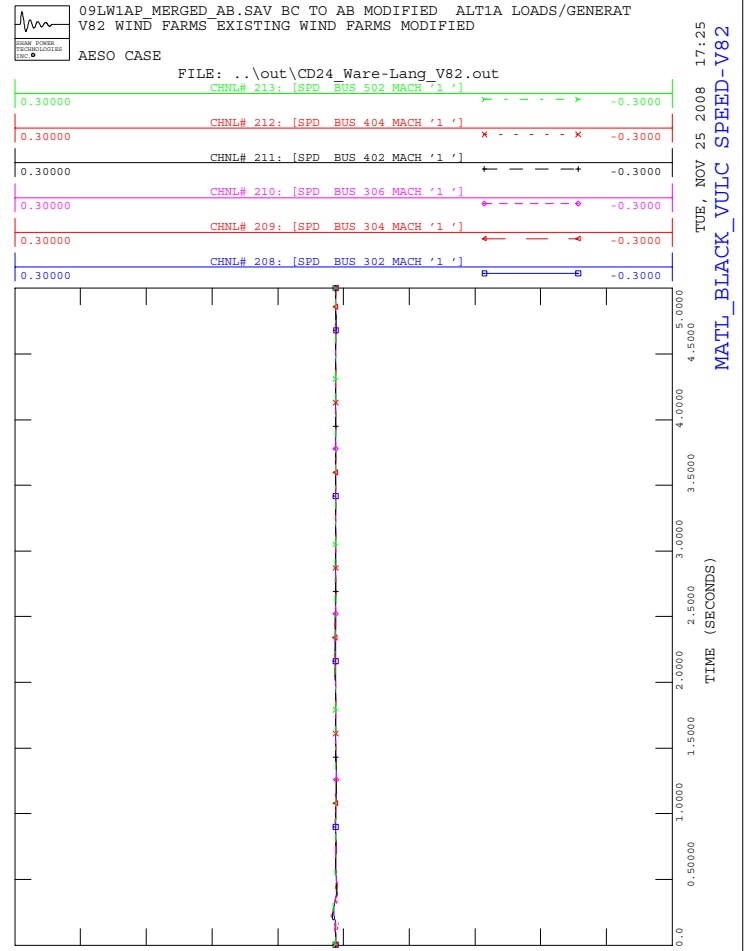
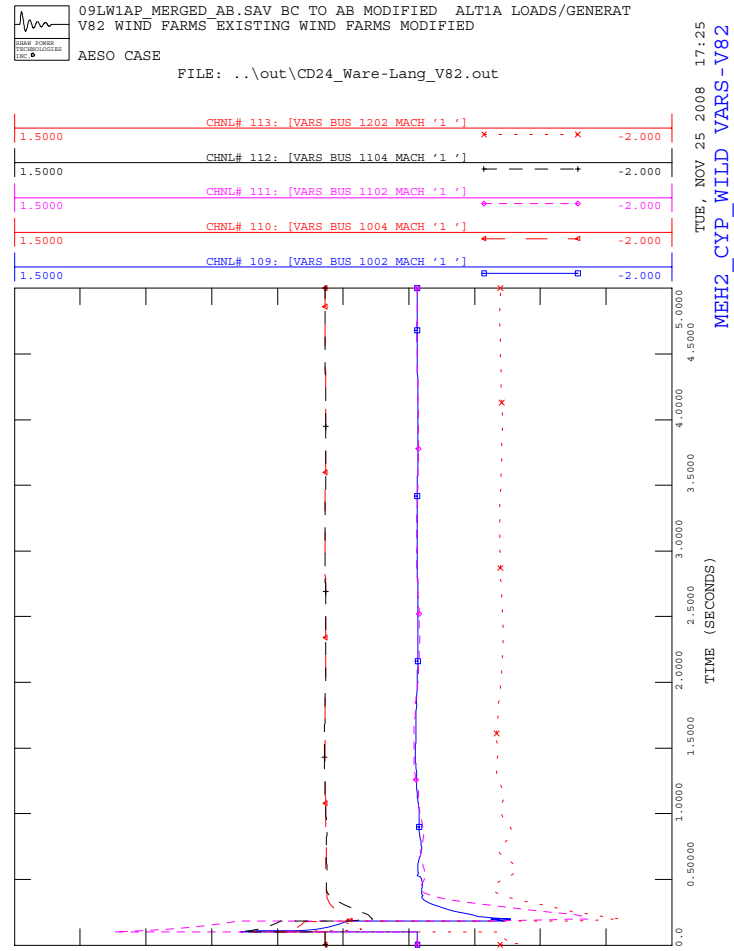
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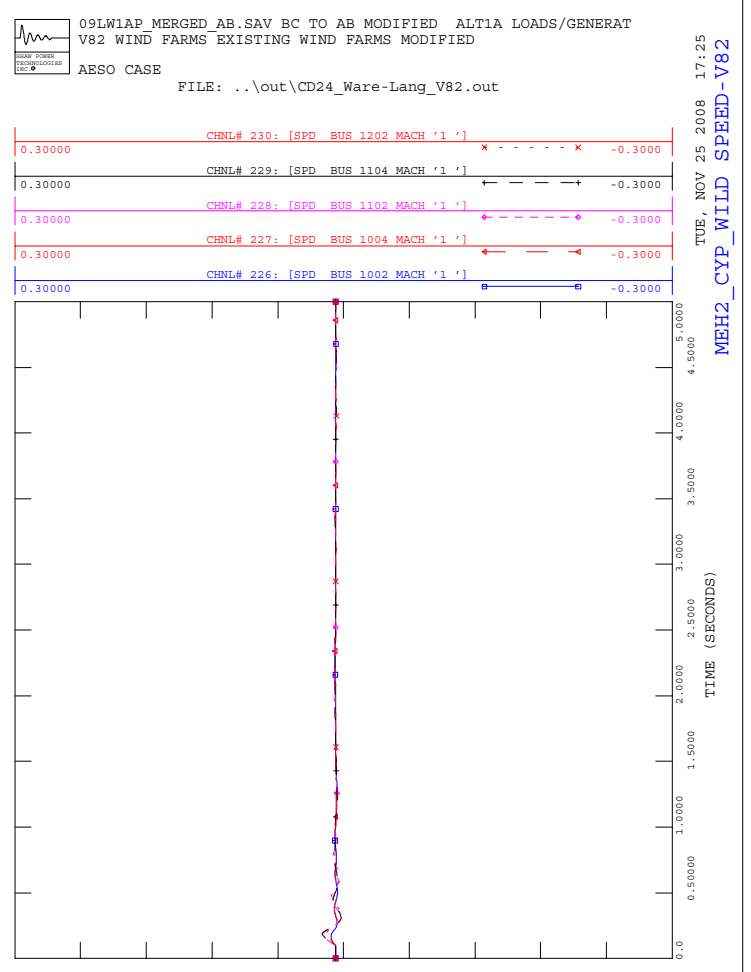
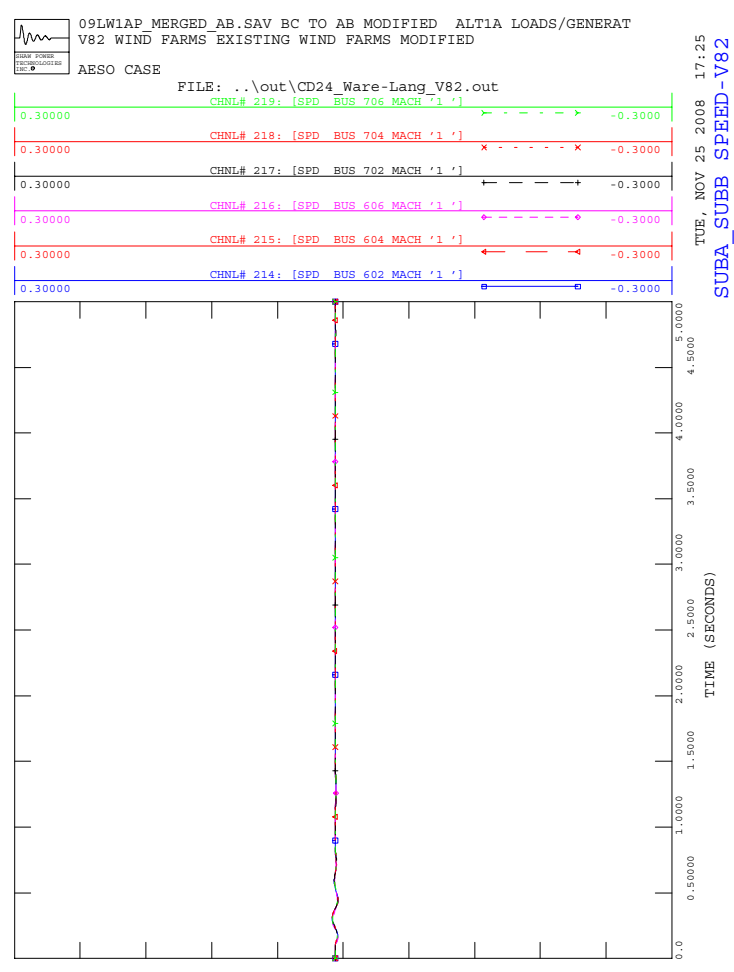
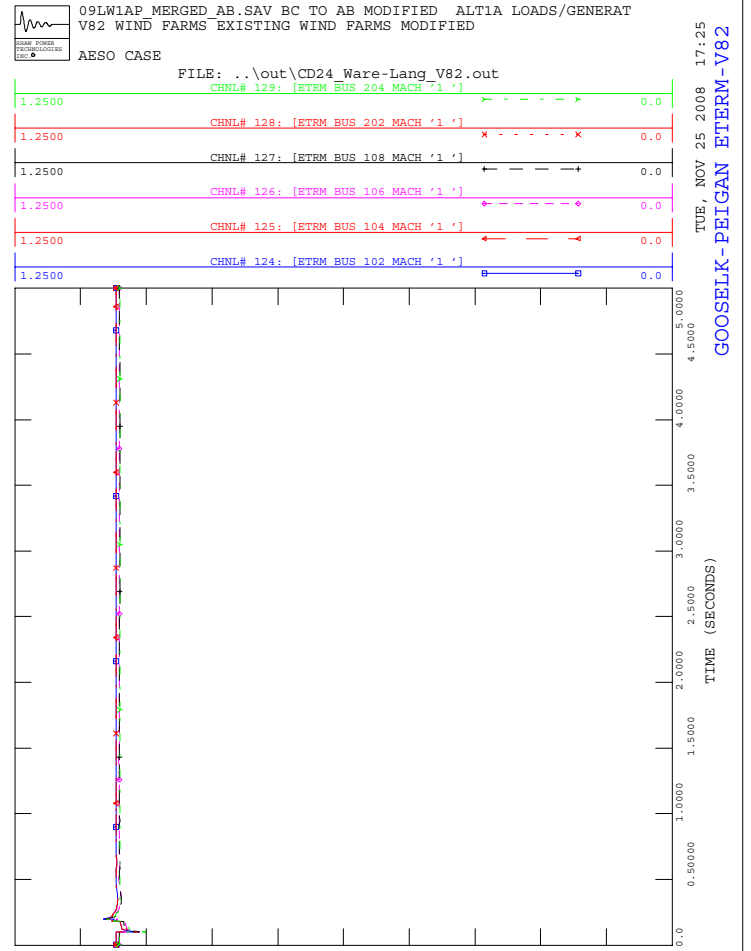
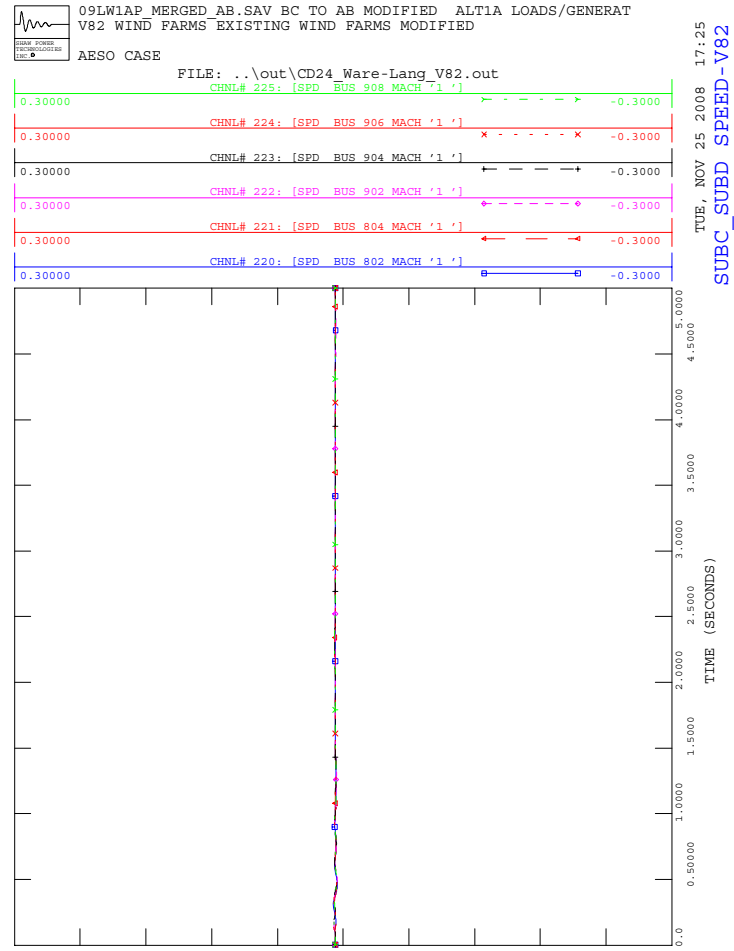
TUE, NOV 25 2008 17:25
AB_BC_TIE_FLOWS-V82

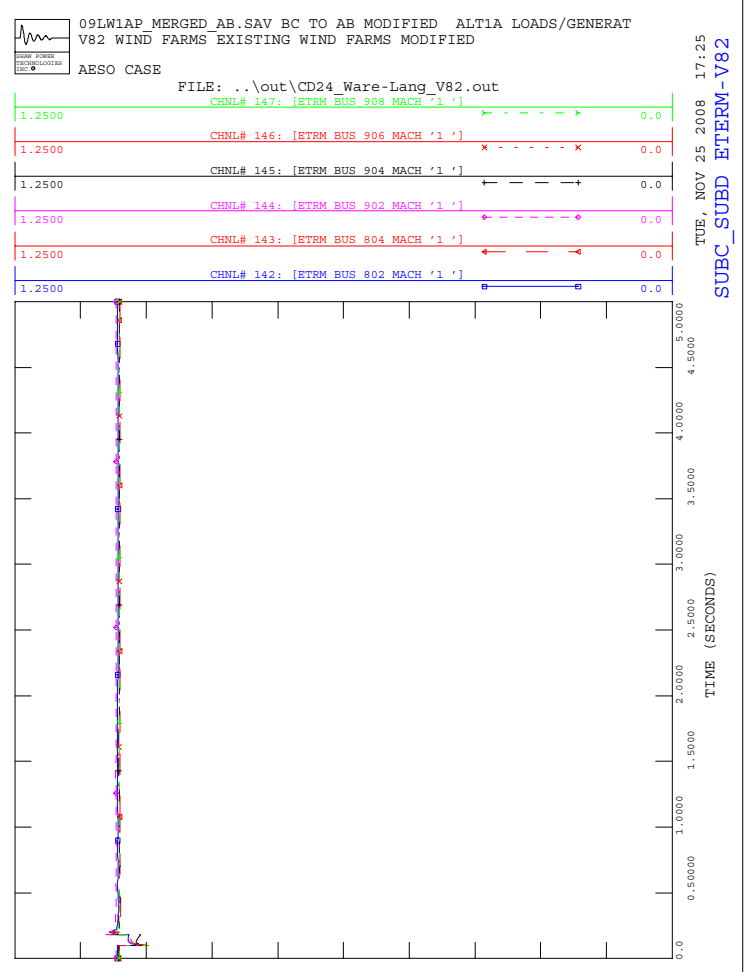
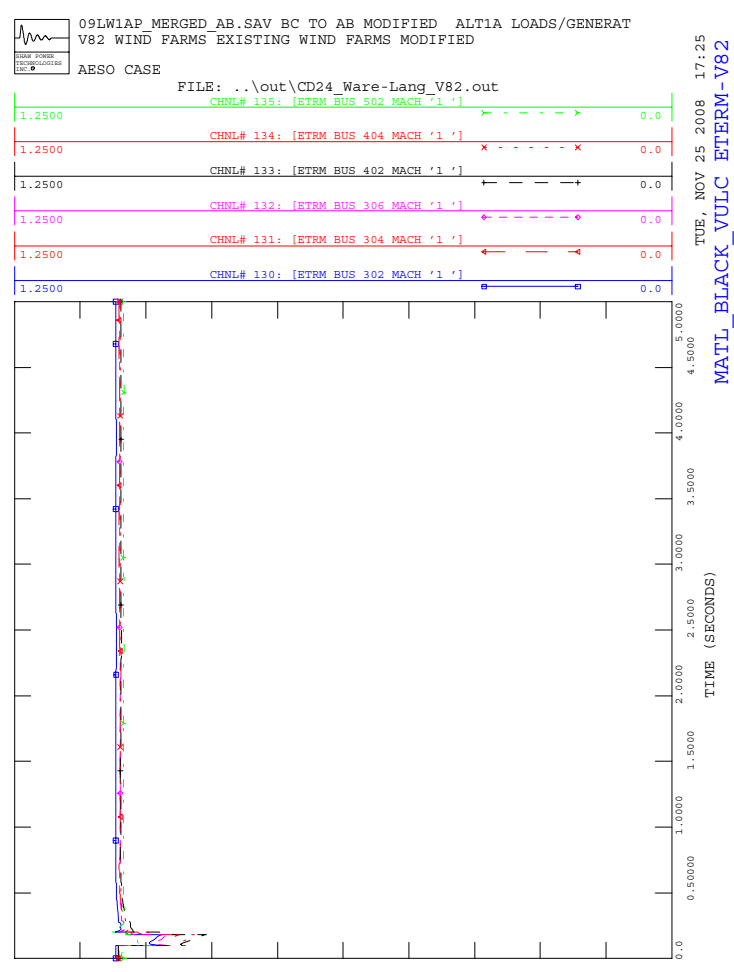
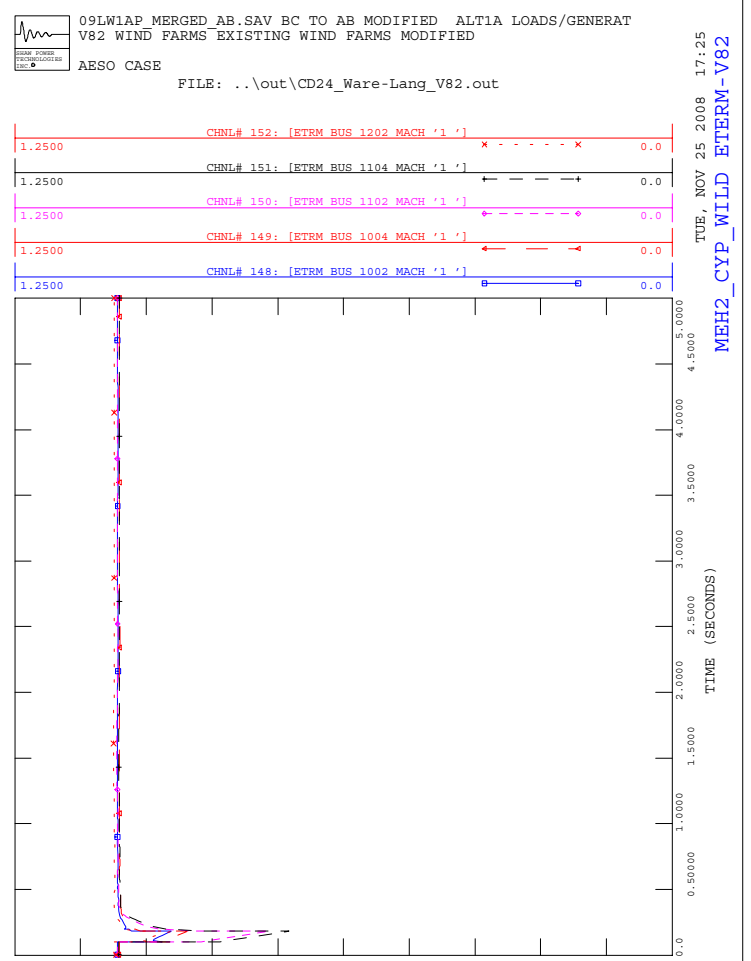
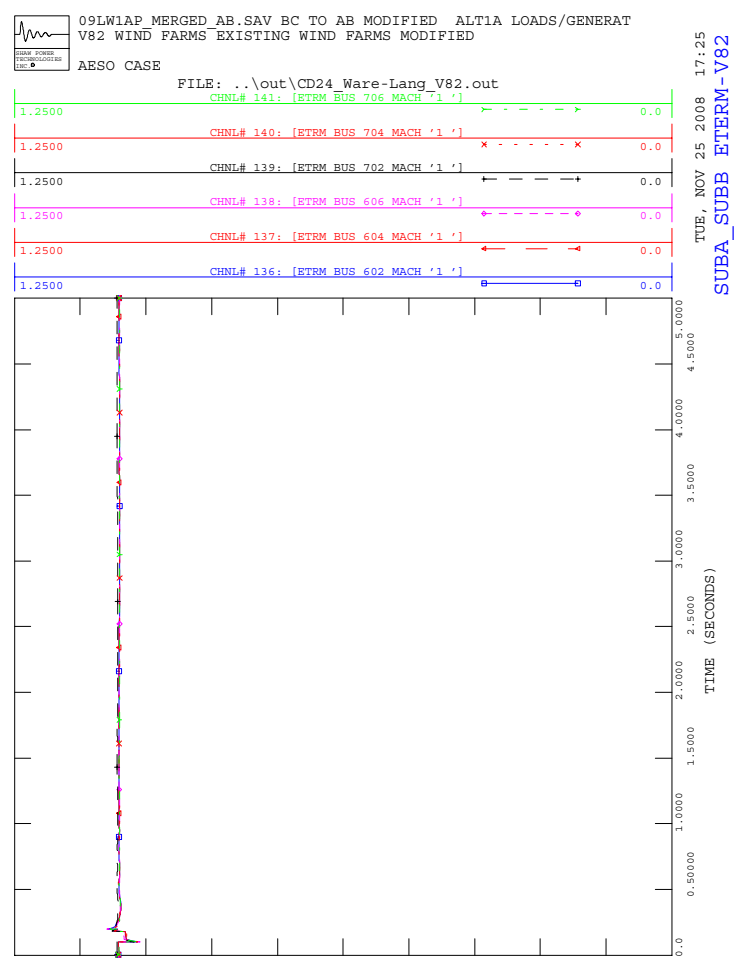


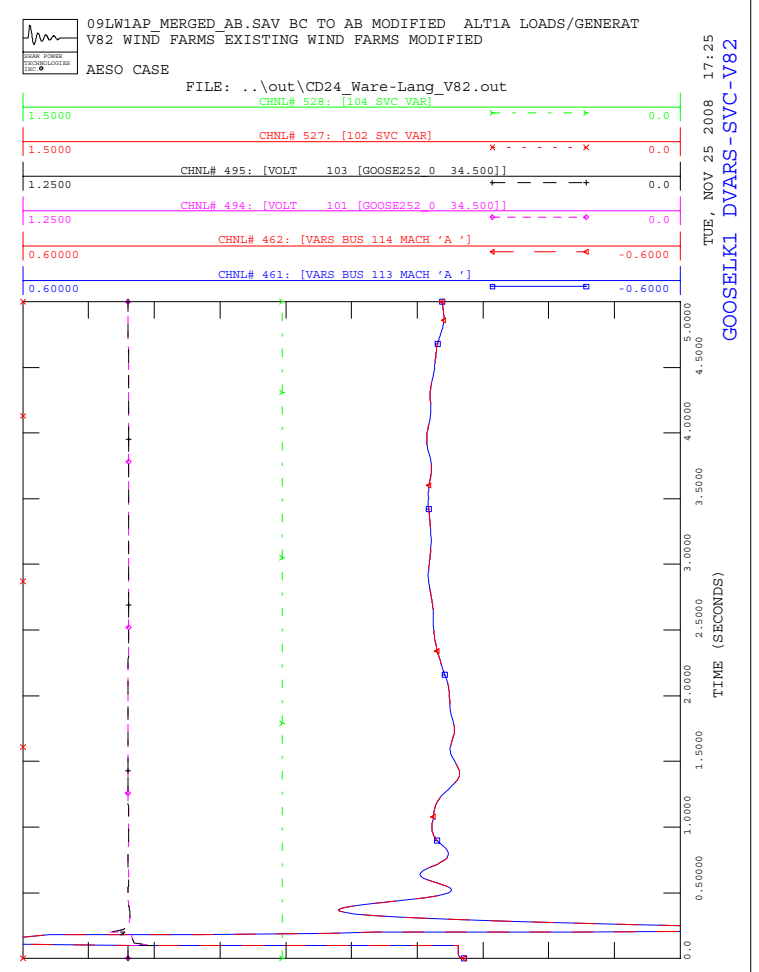
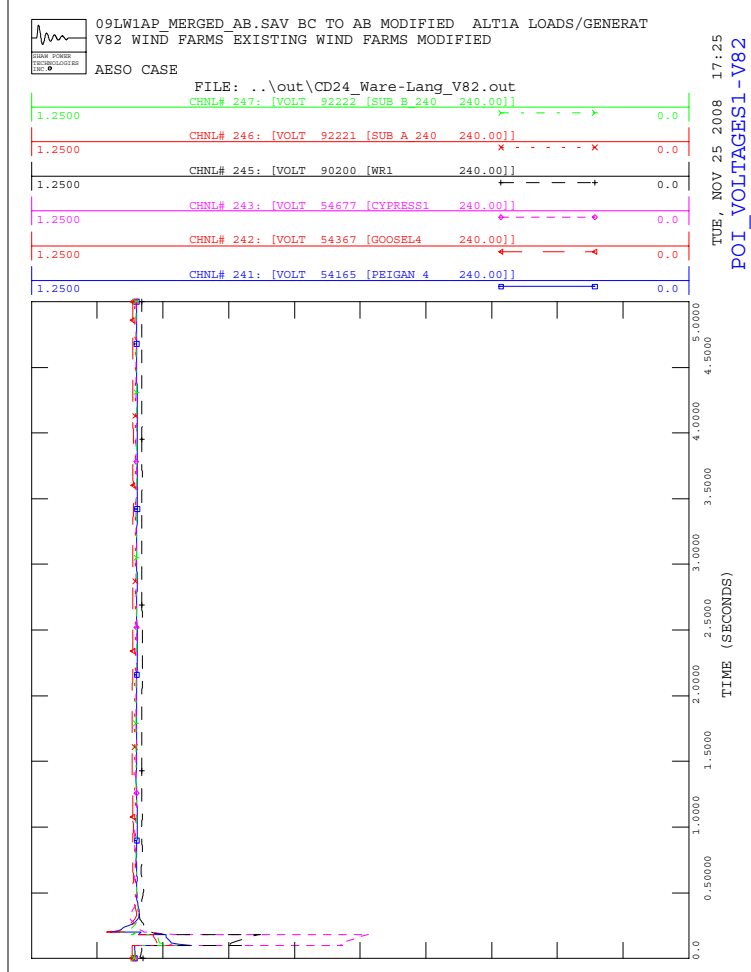
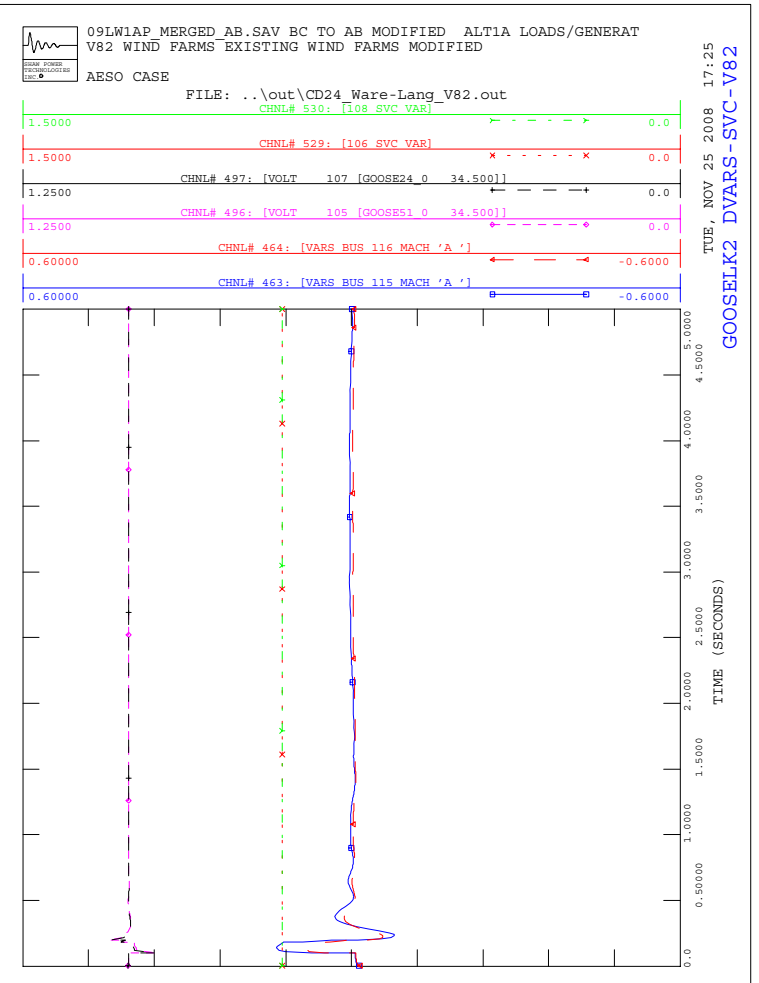
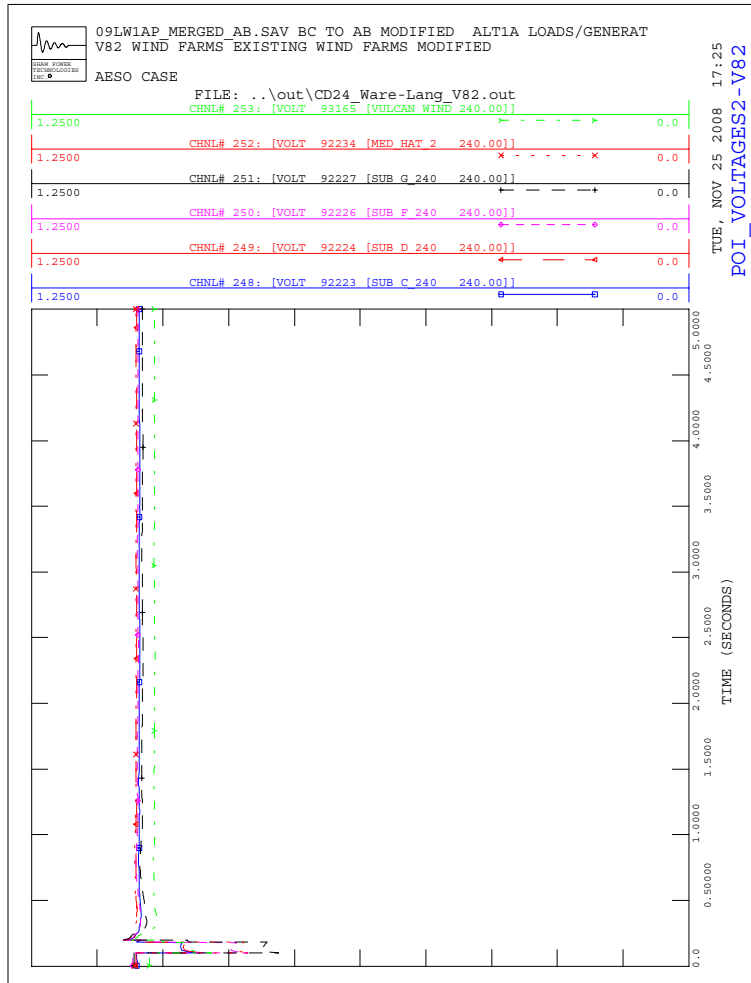


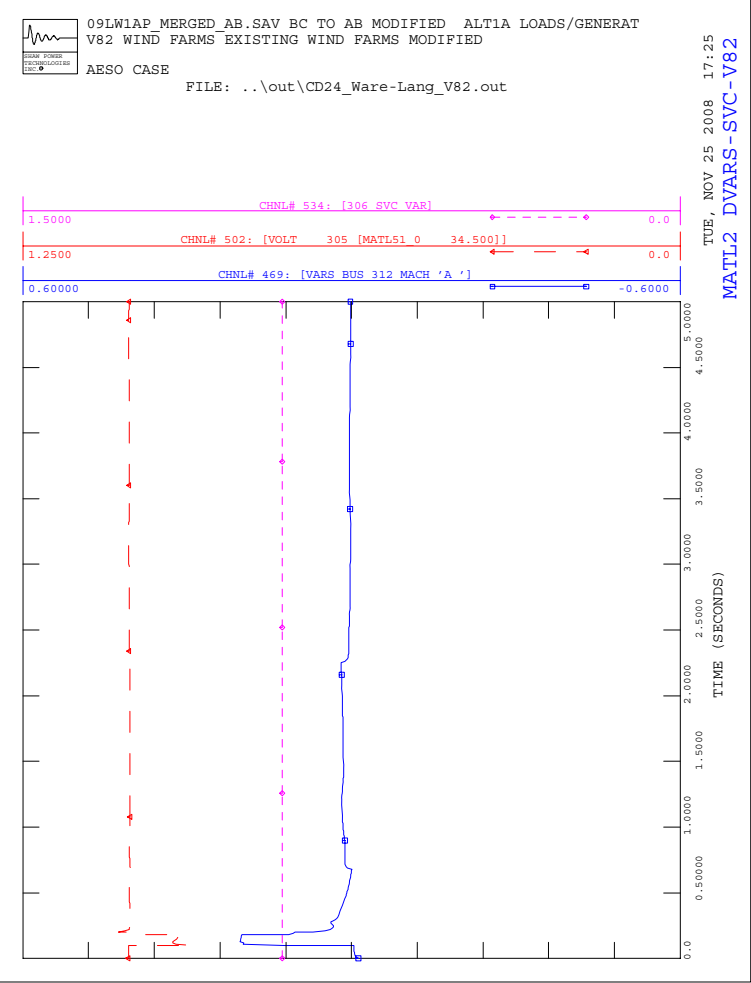
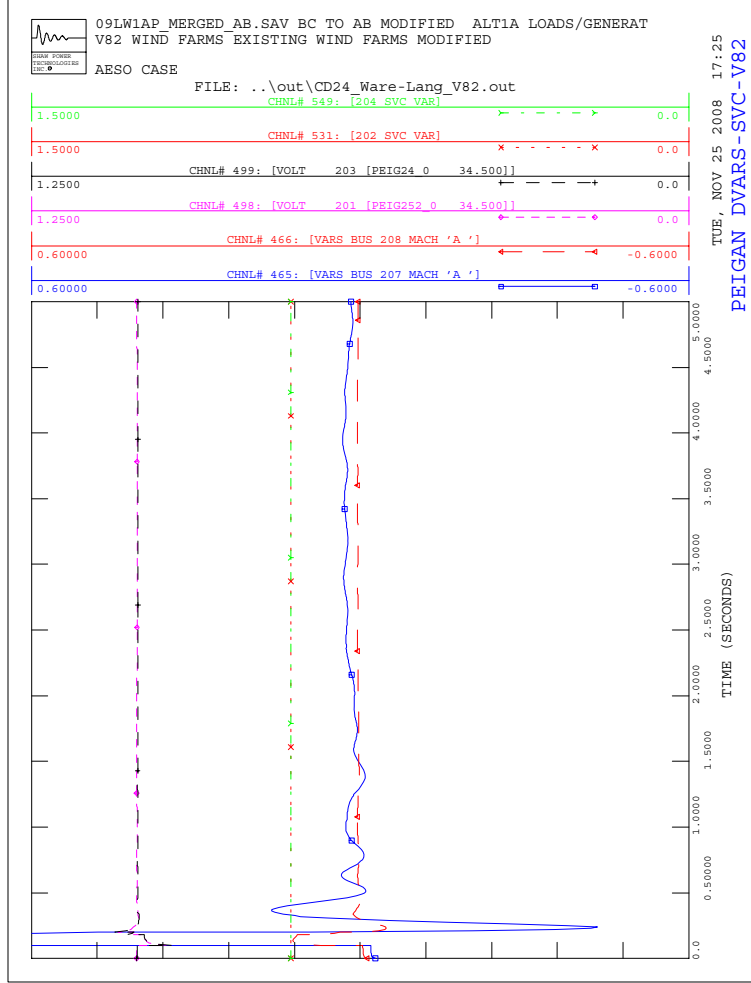
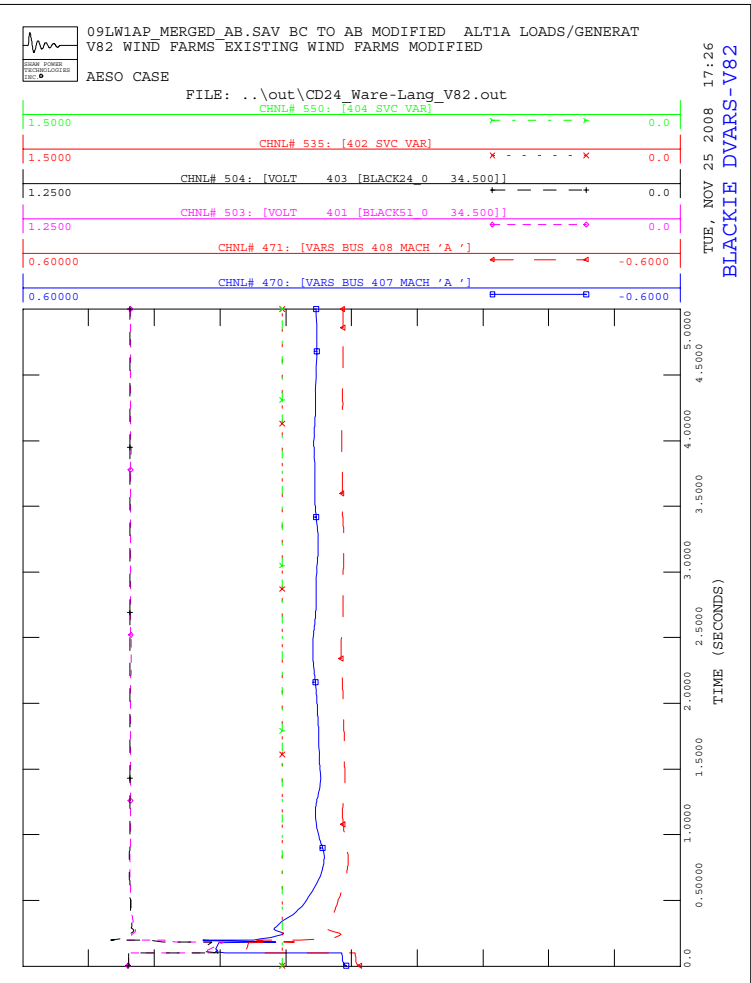
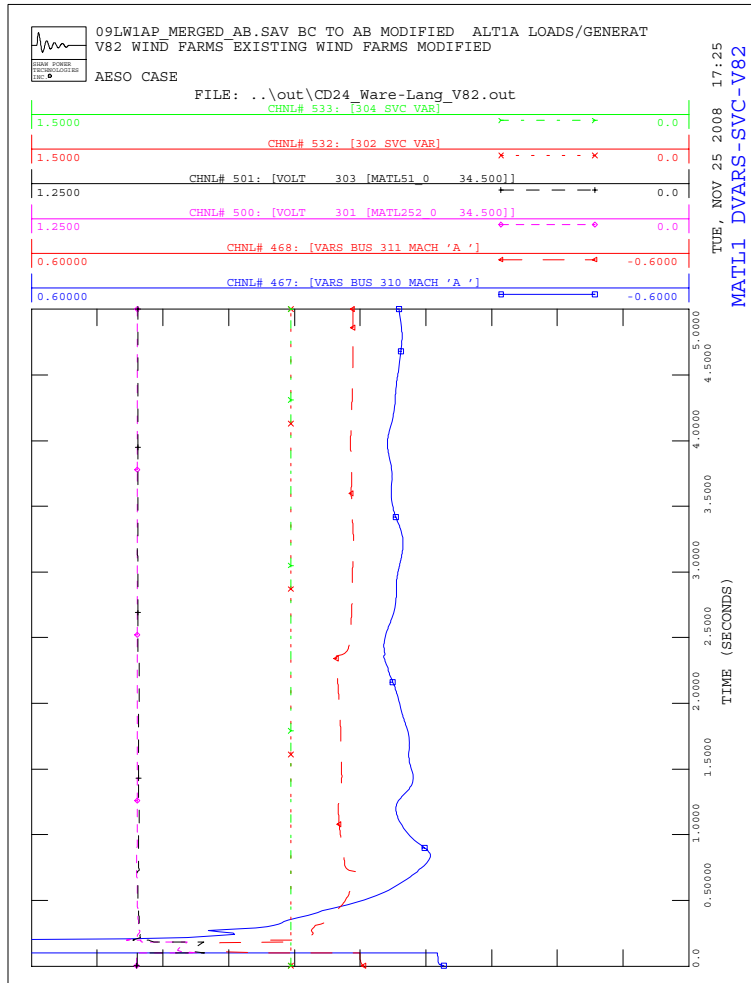


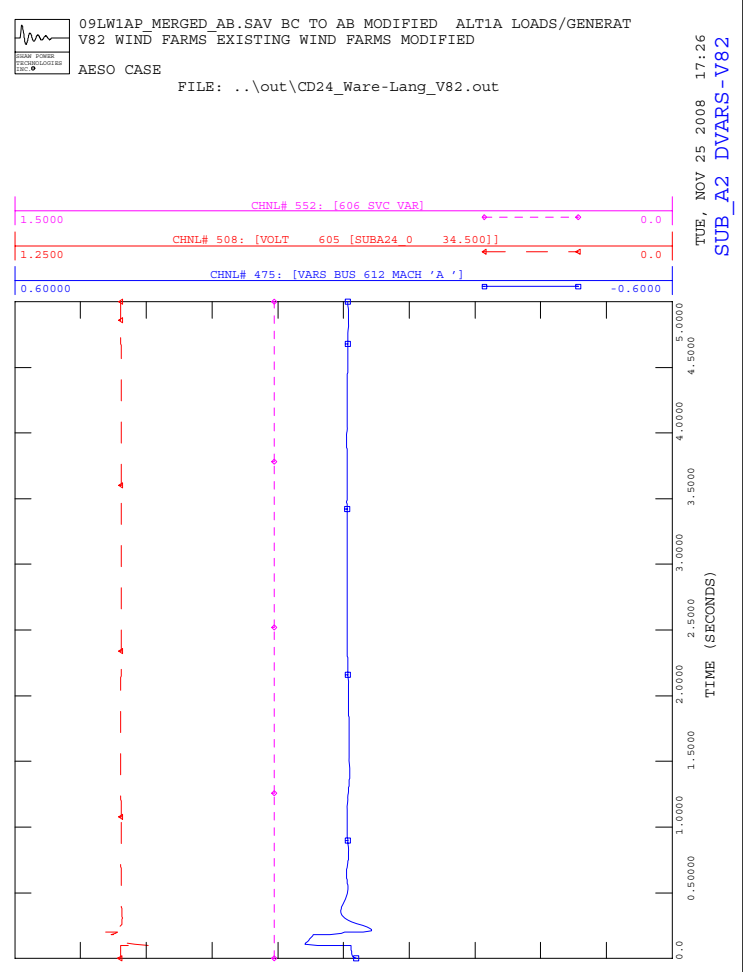
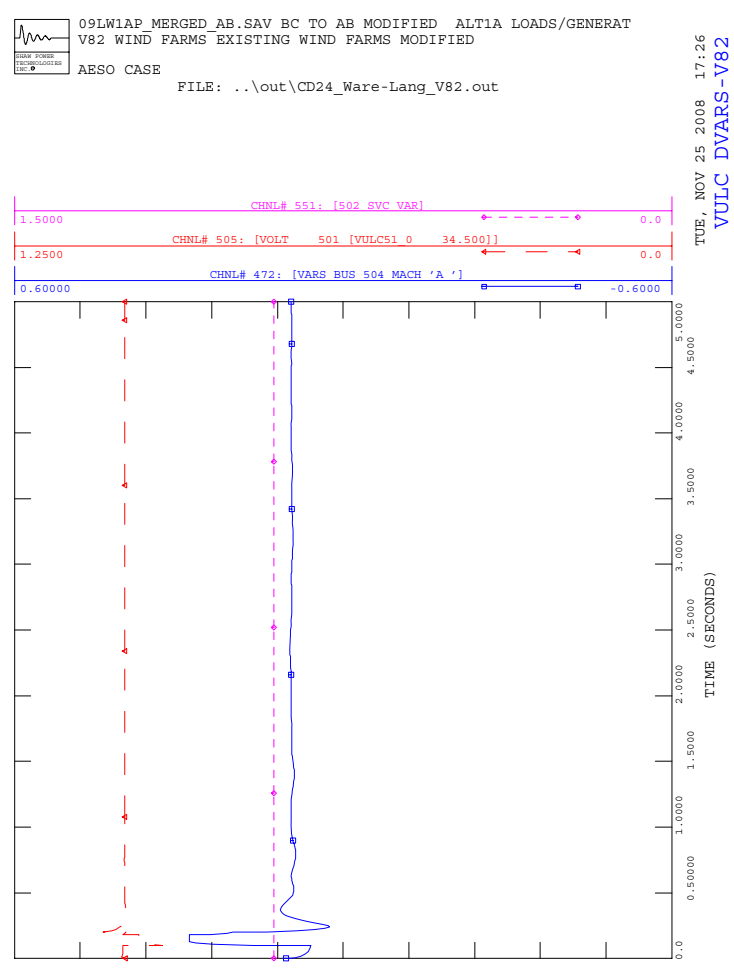
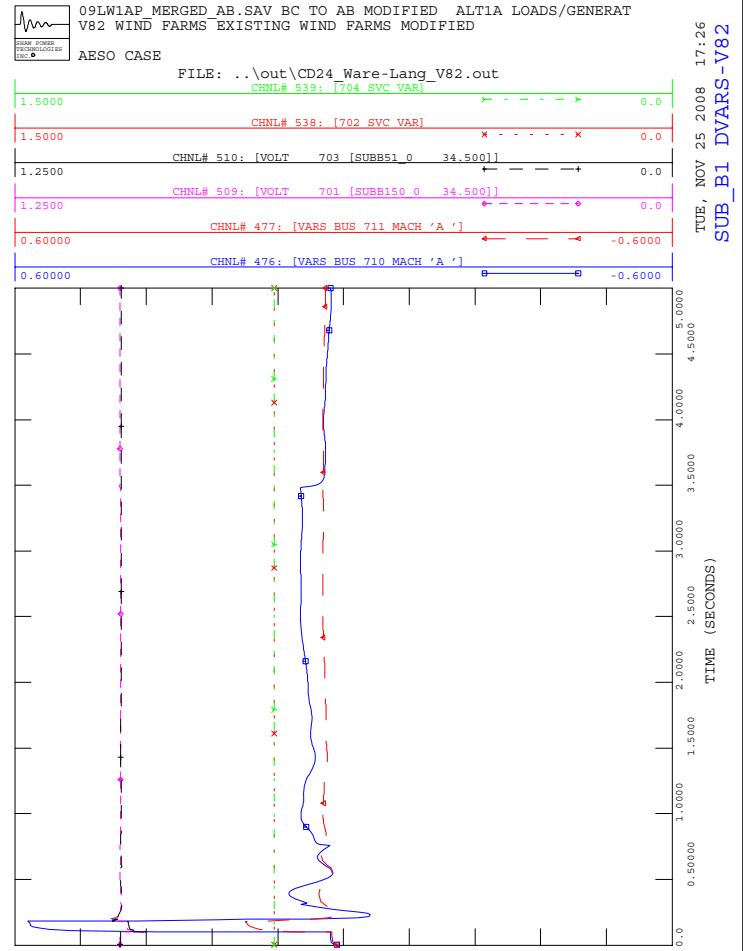
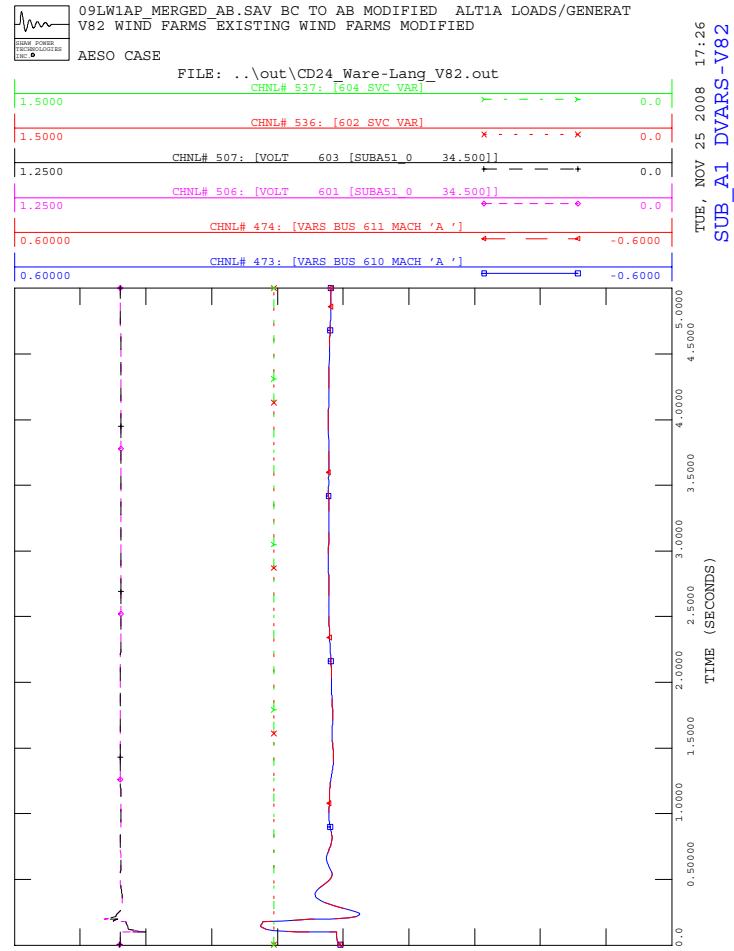


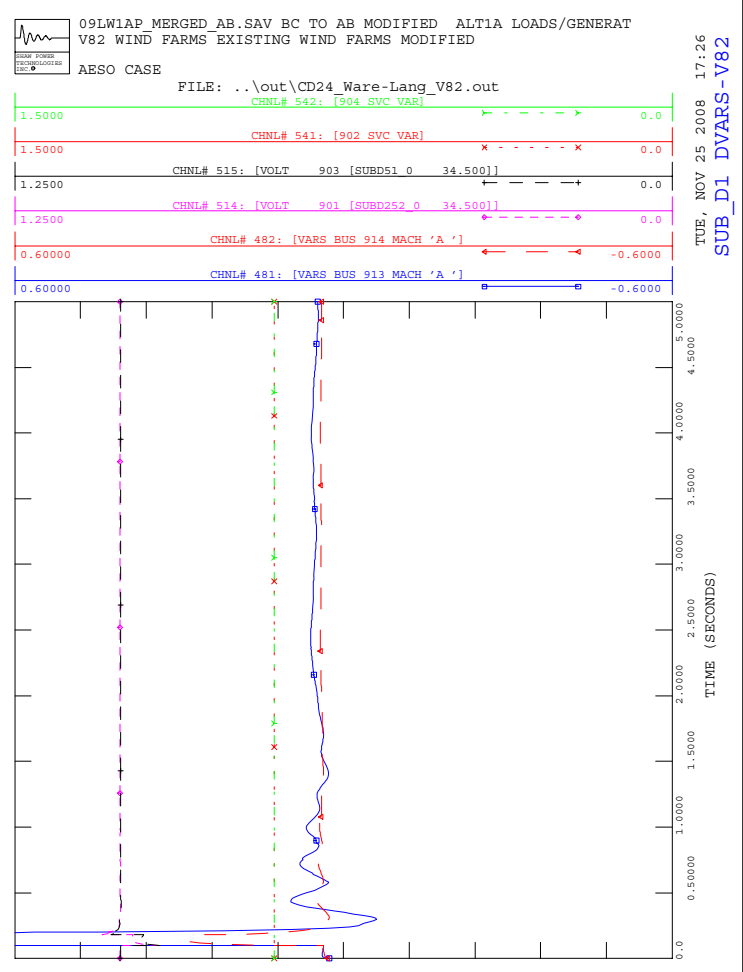
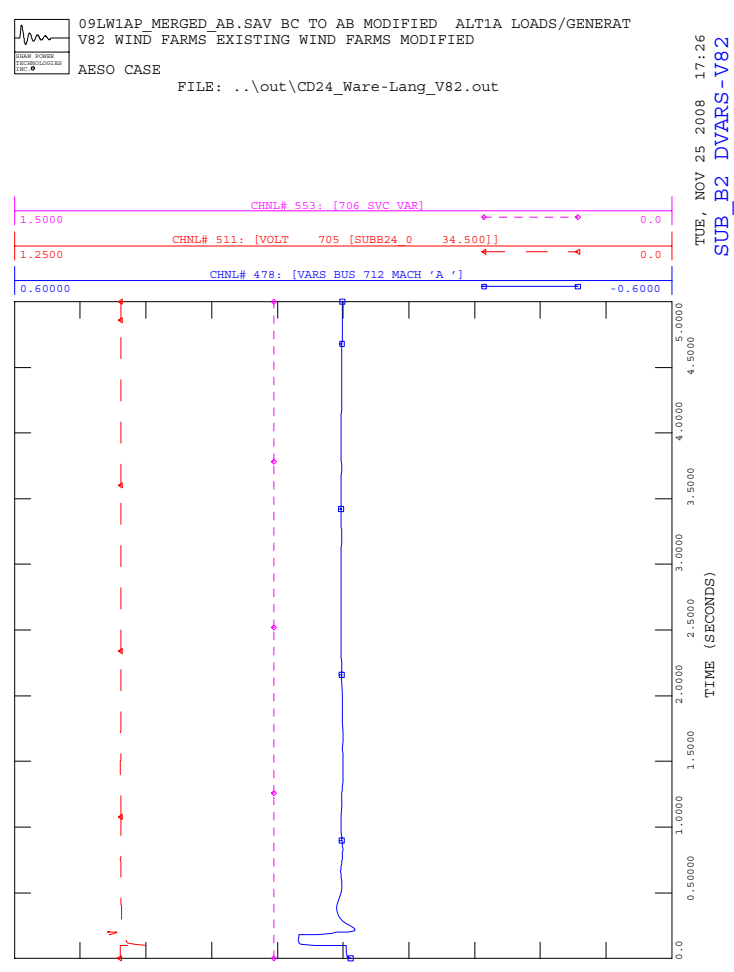
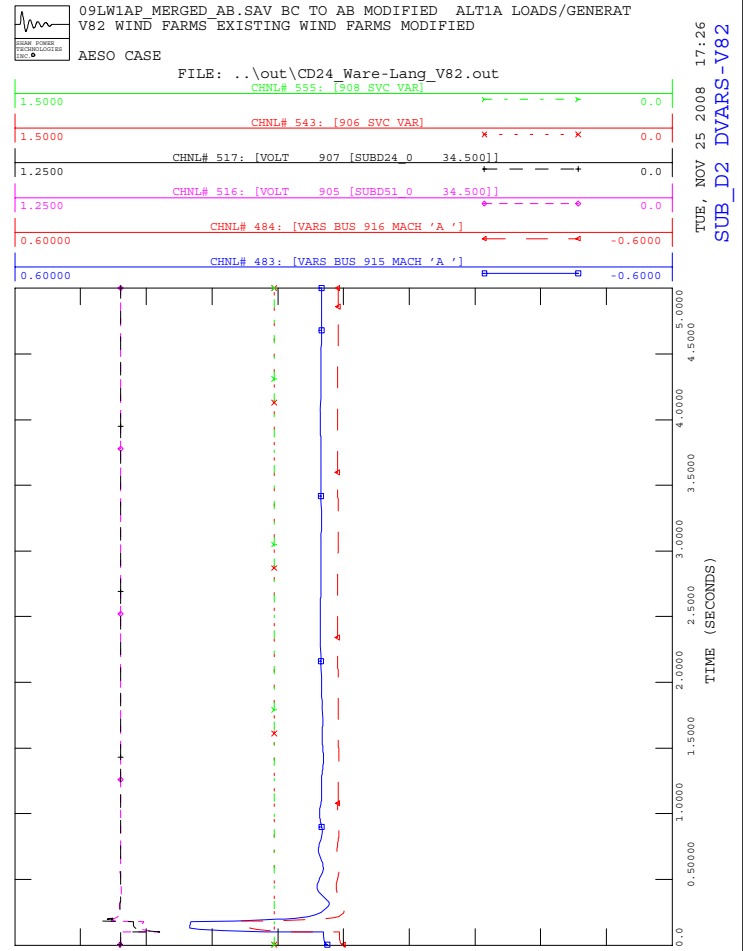
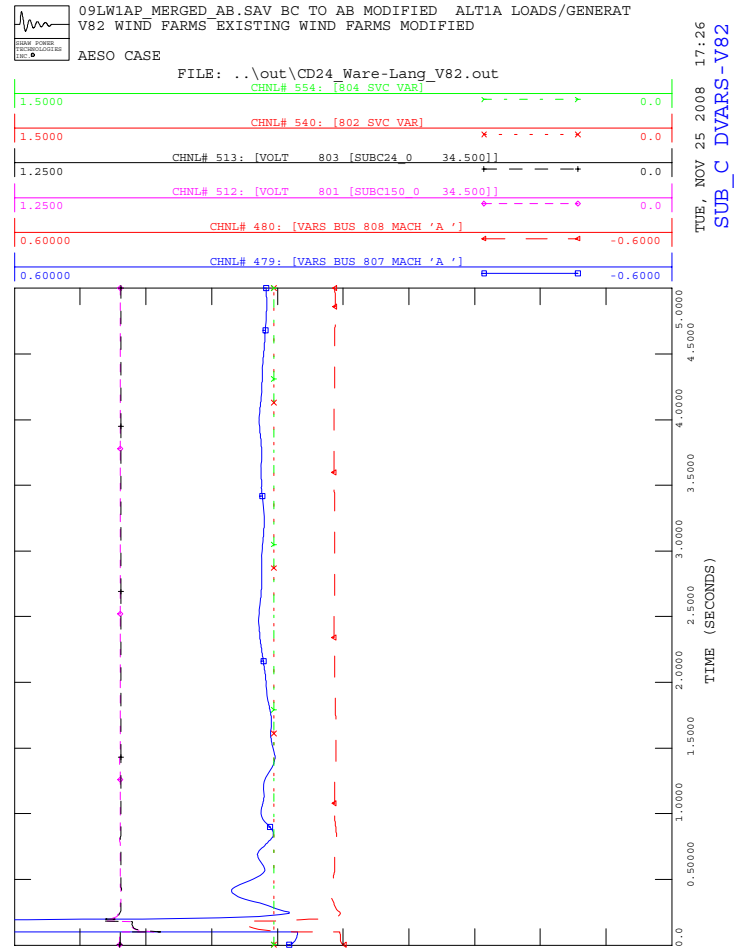


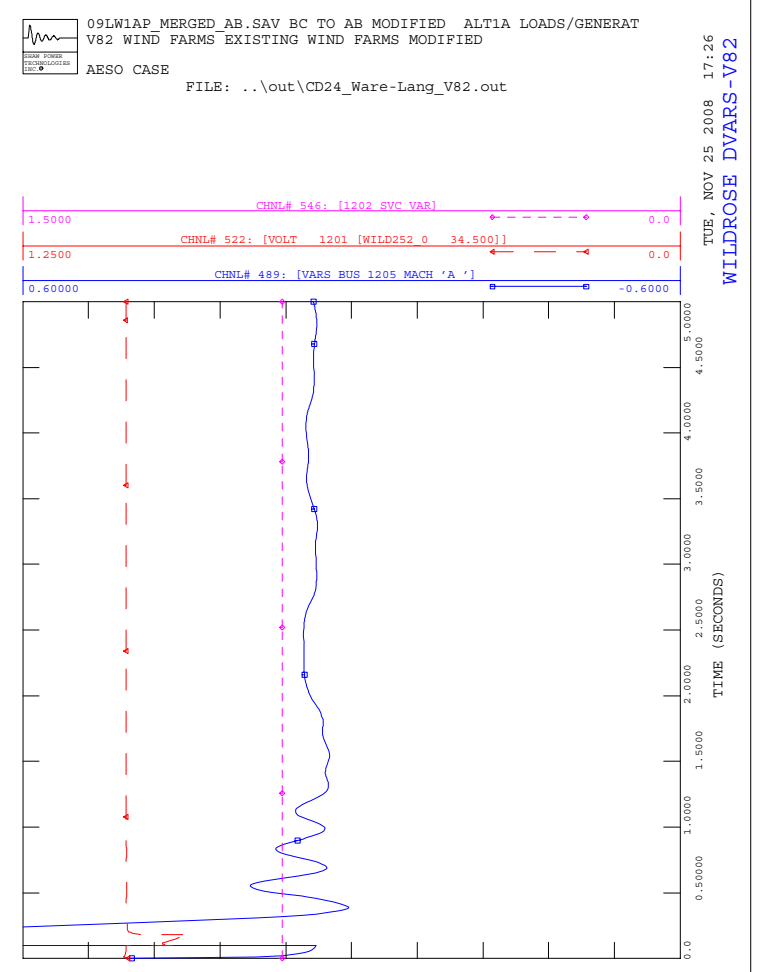
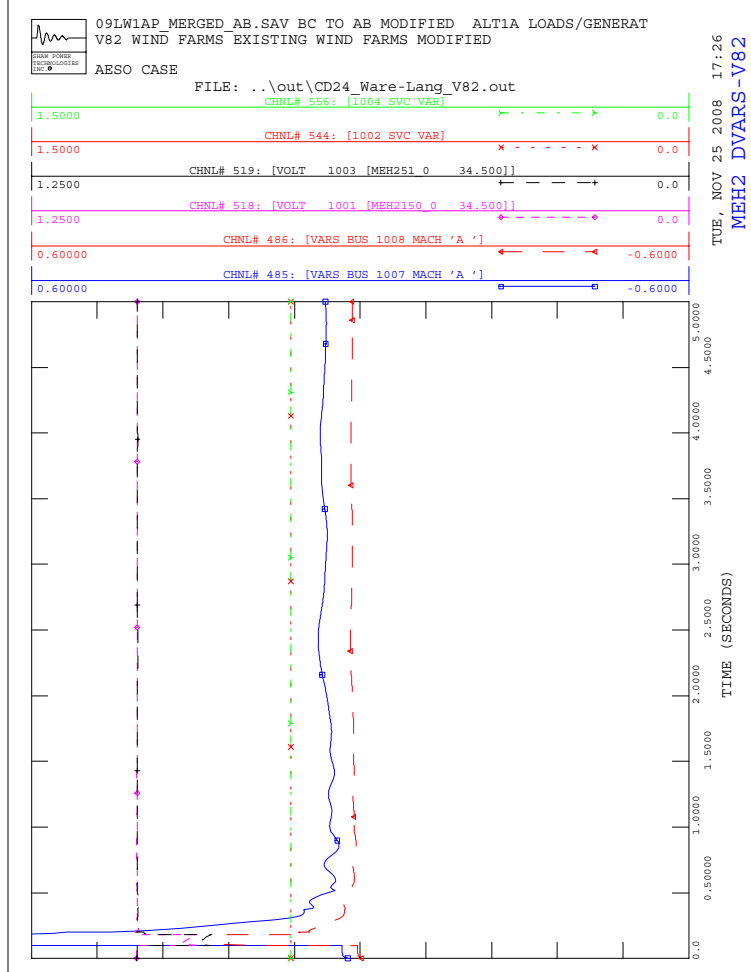
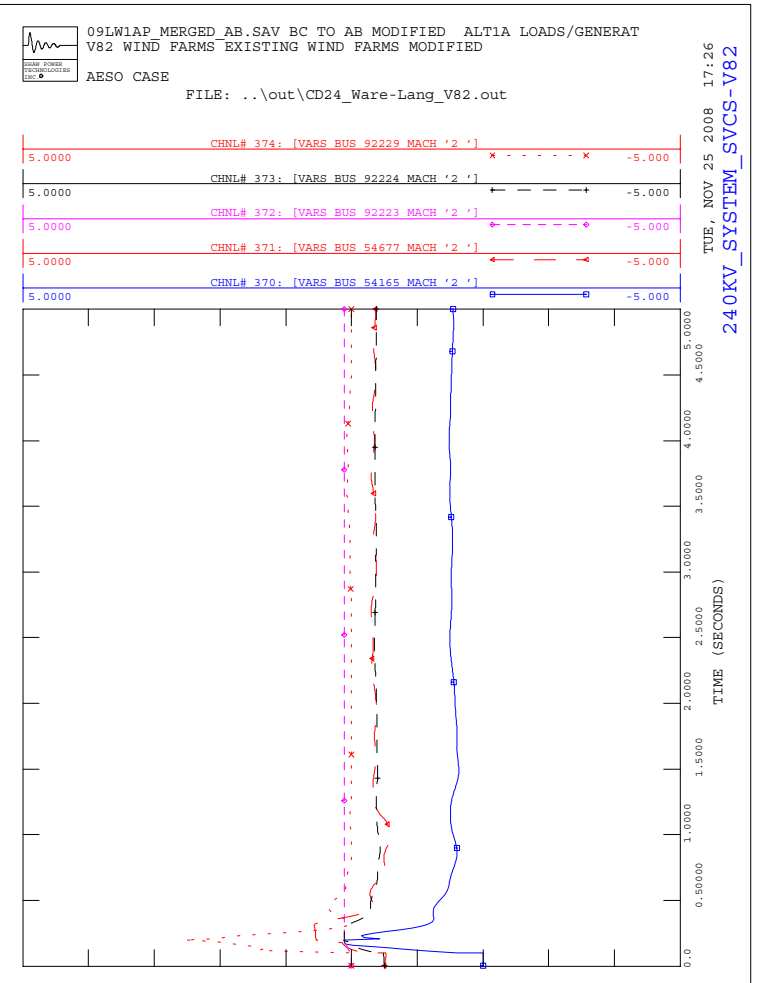
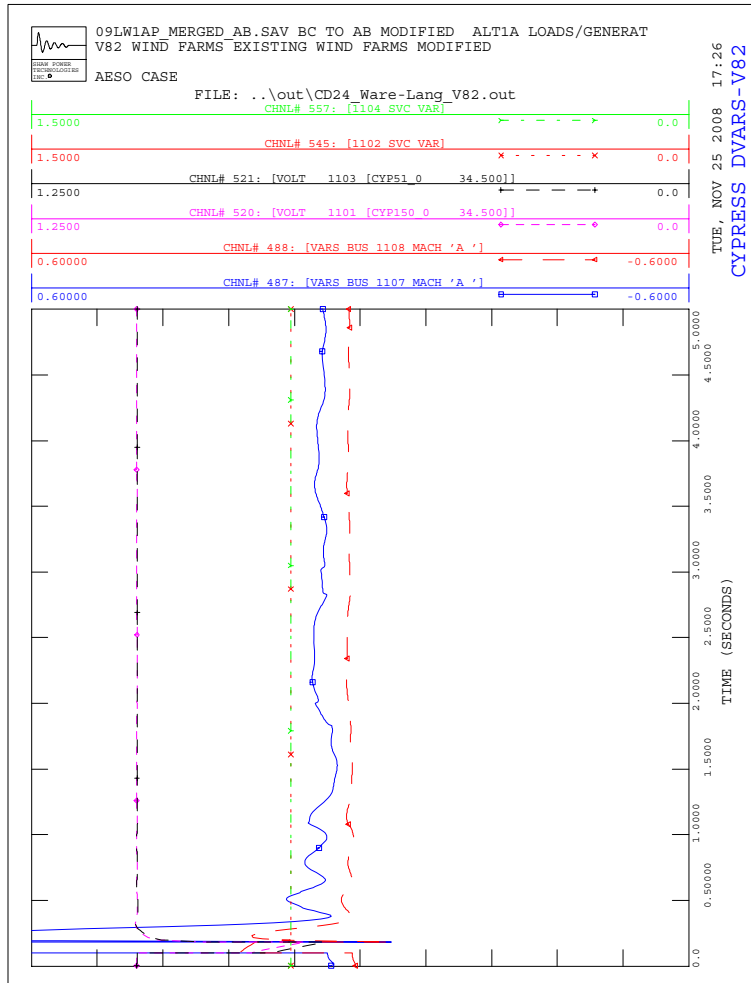












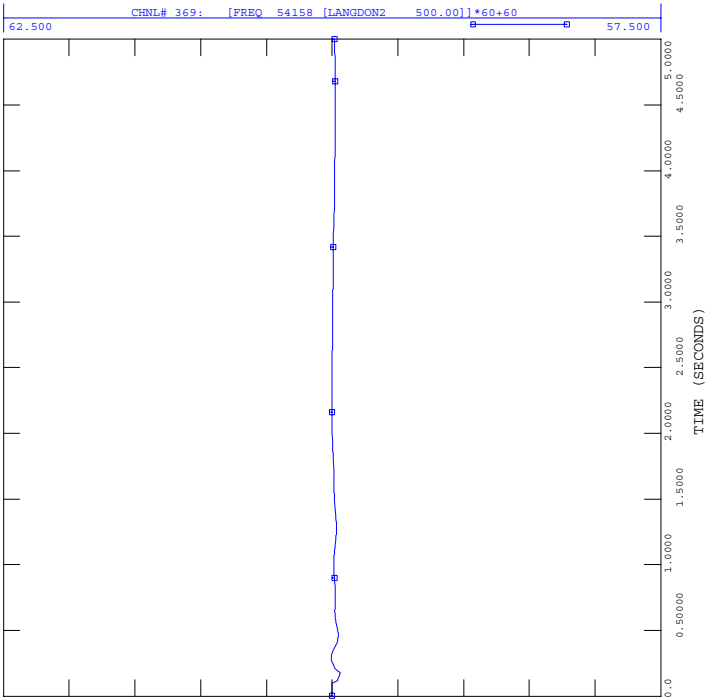


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD24_Ware-Lang_V82.out

TUE, NOV 25 2008 17:26
LANGDON_FRQ-V82

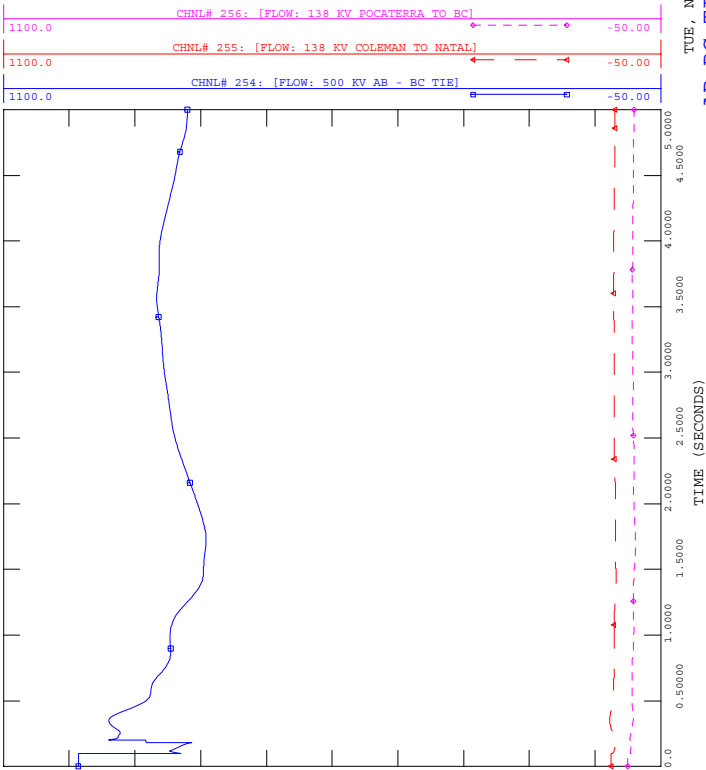


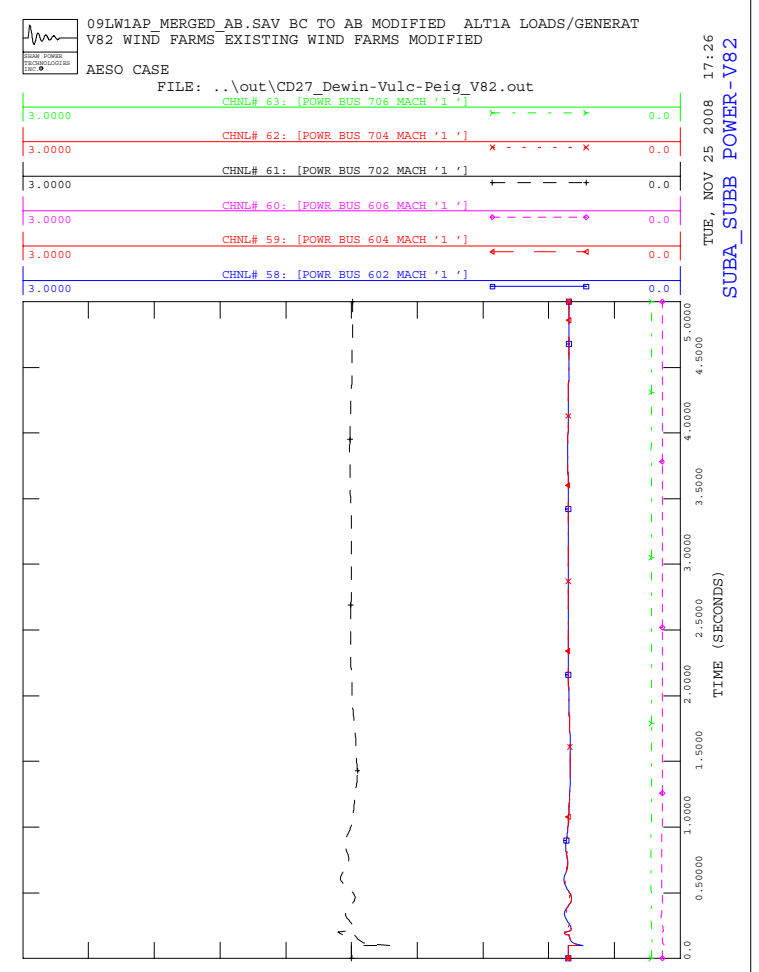
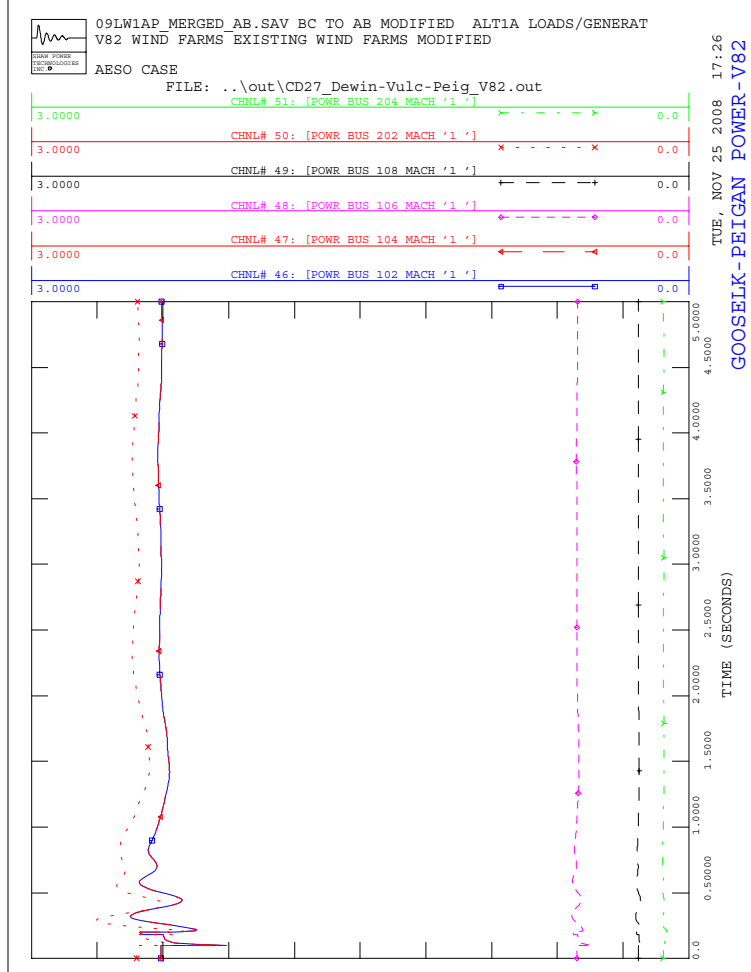
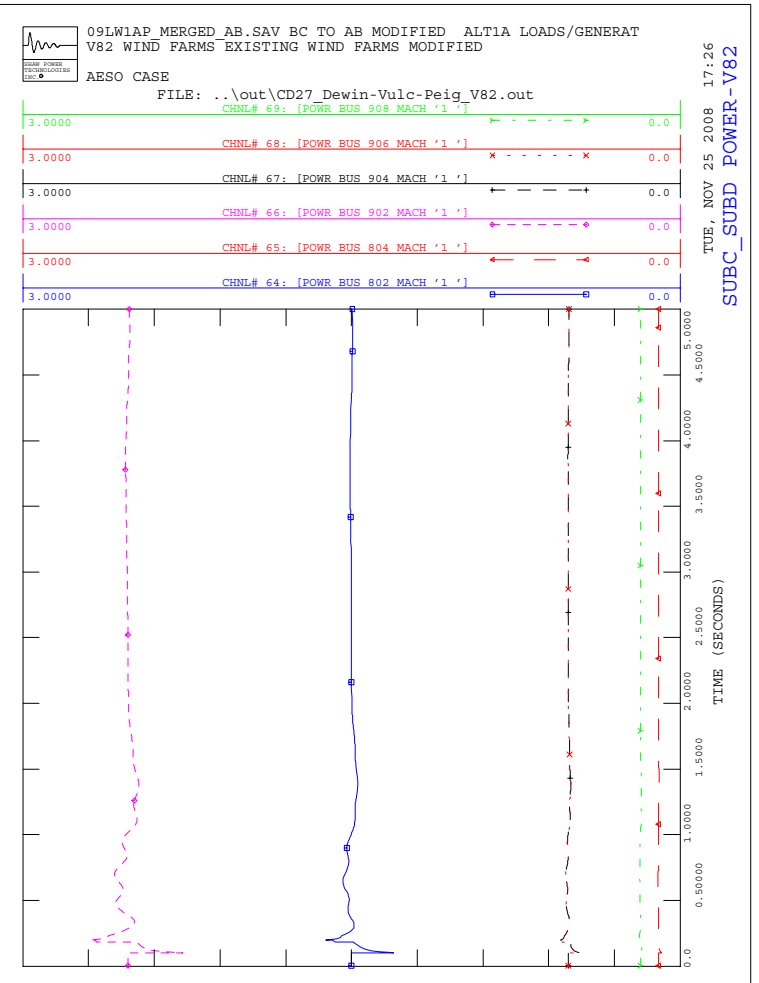
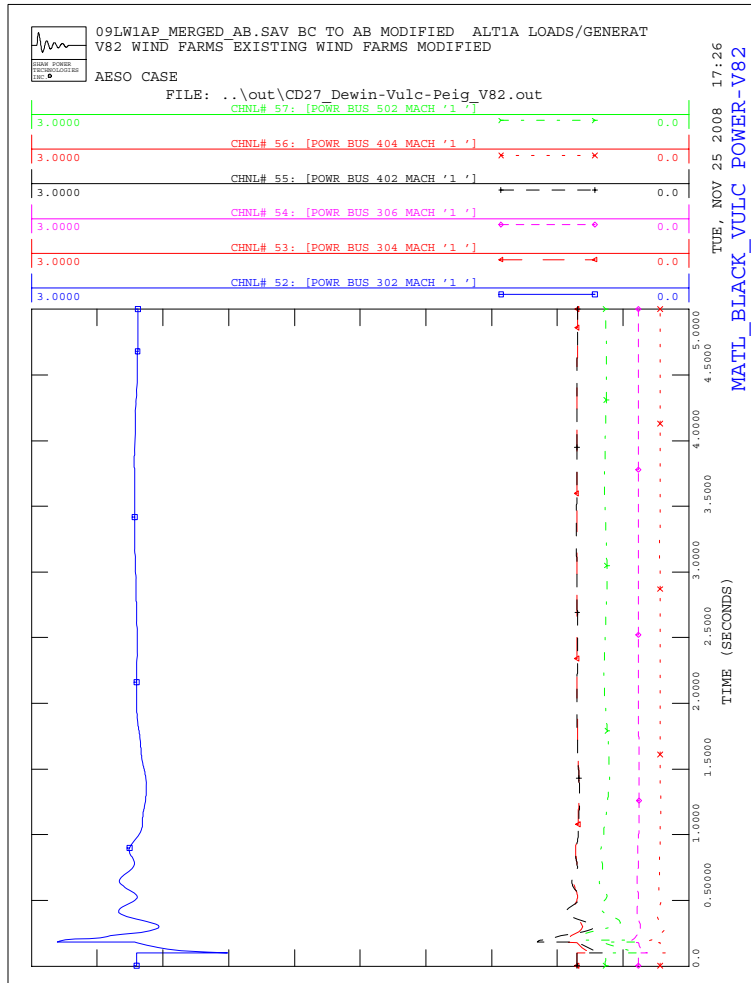
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

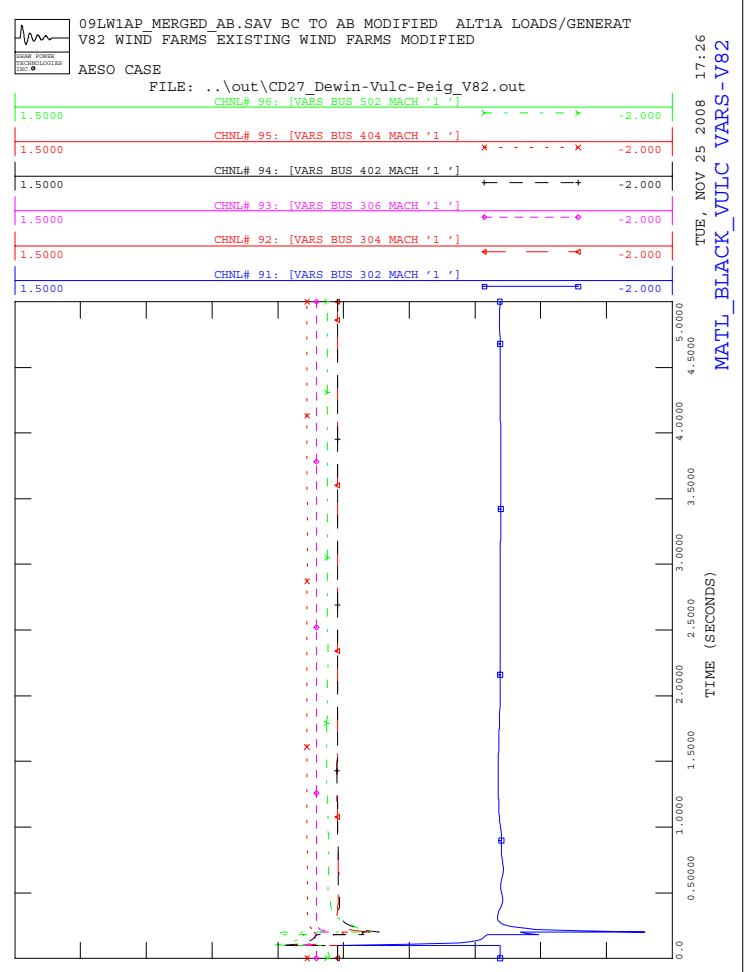
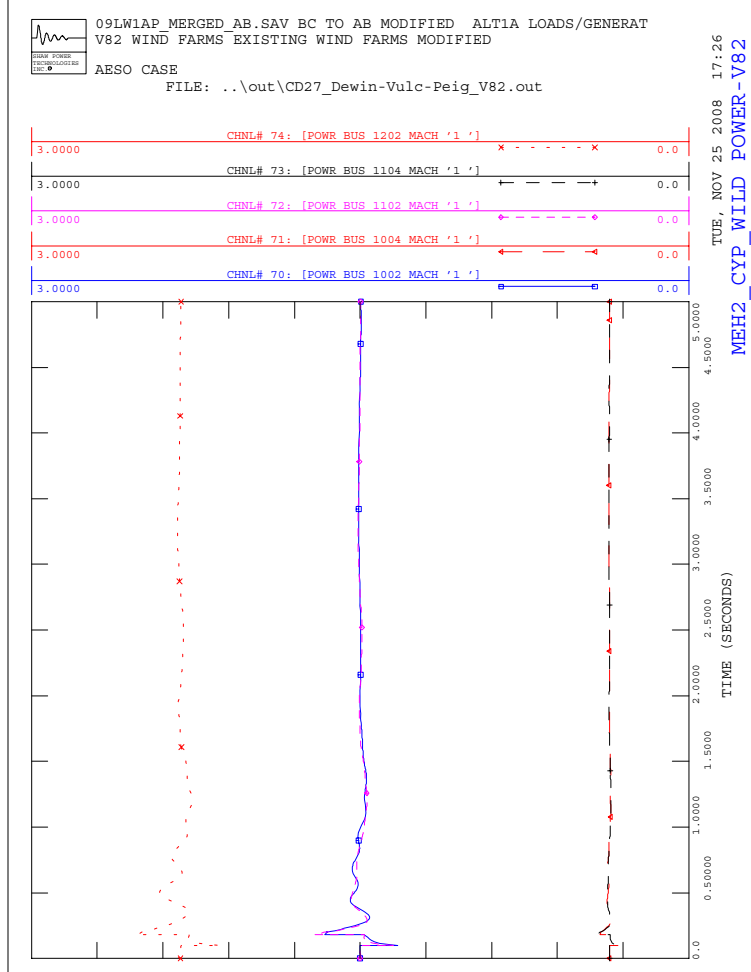
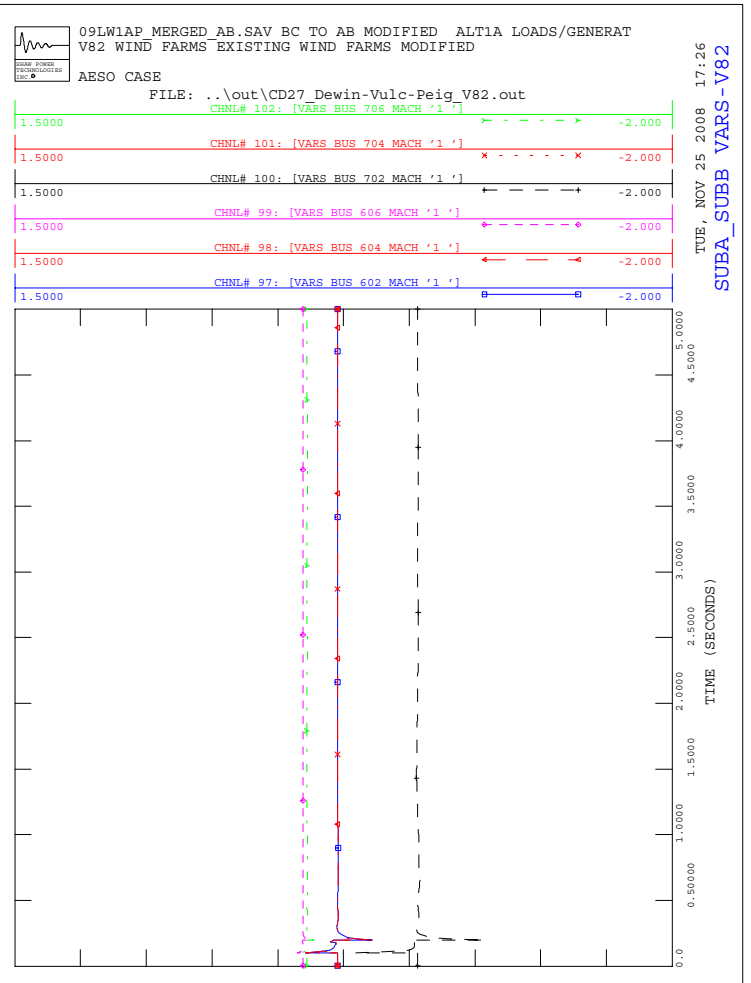
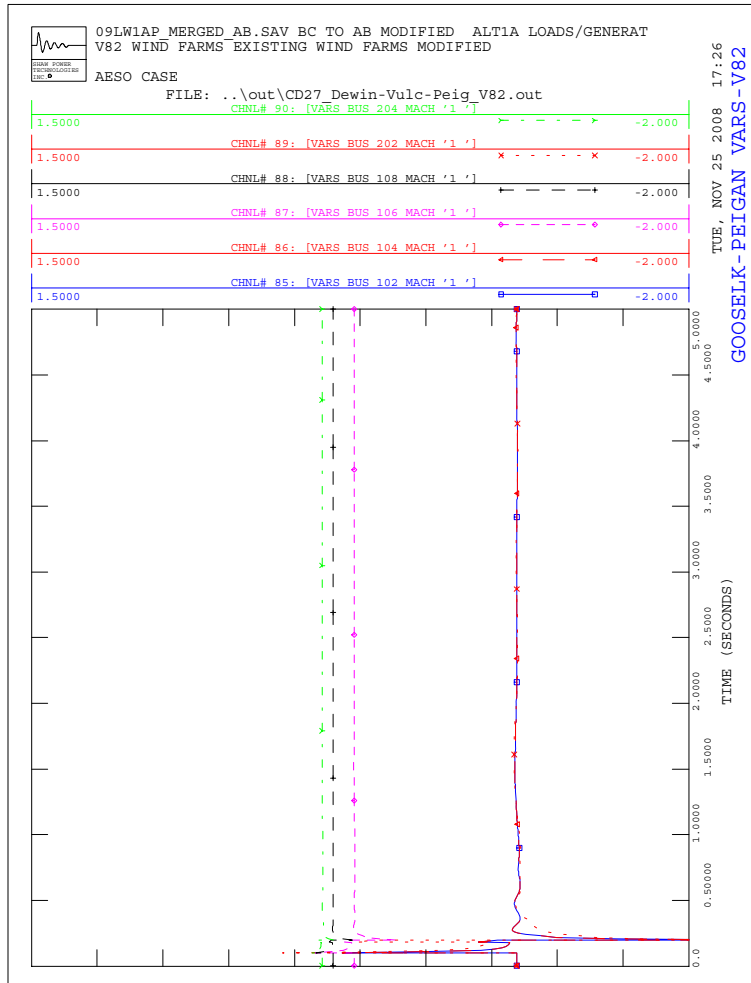
ABSO CASE

FILE: ..\out\CD24_Ware-Lang_V82.out

TUE, NOV 25 2008 17:26
AB_BC_TIE_FLOWS-V82





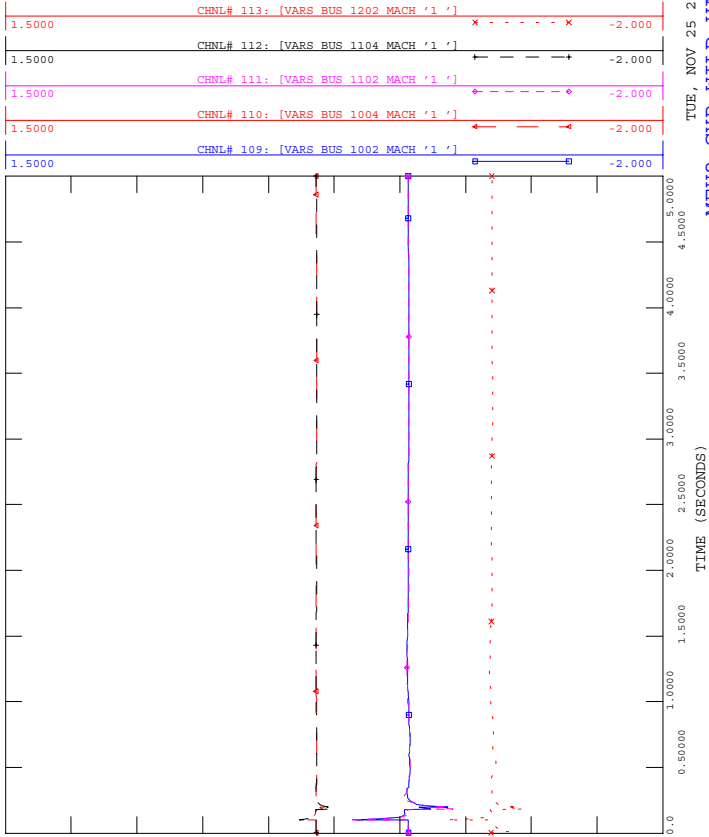


09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



AEBSO CASE

FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out



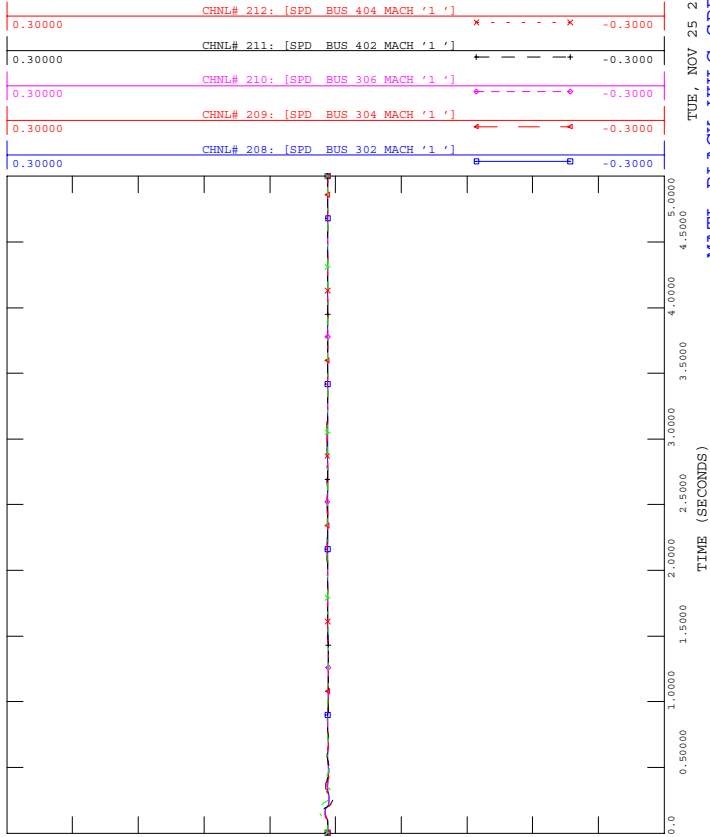
TUE, NOV 25 2008 17:26

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



AEBSO CASE

FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out



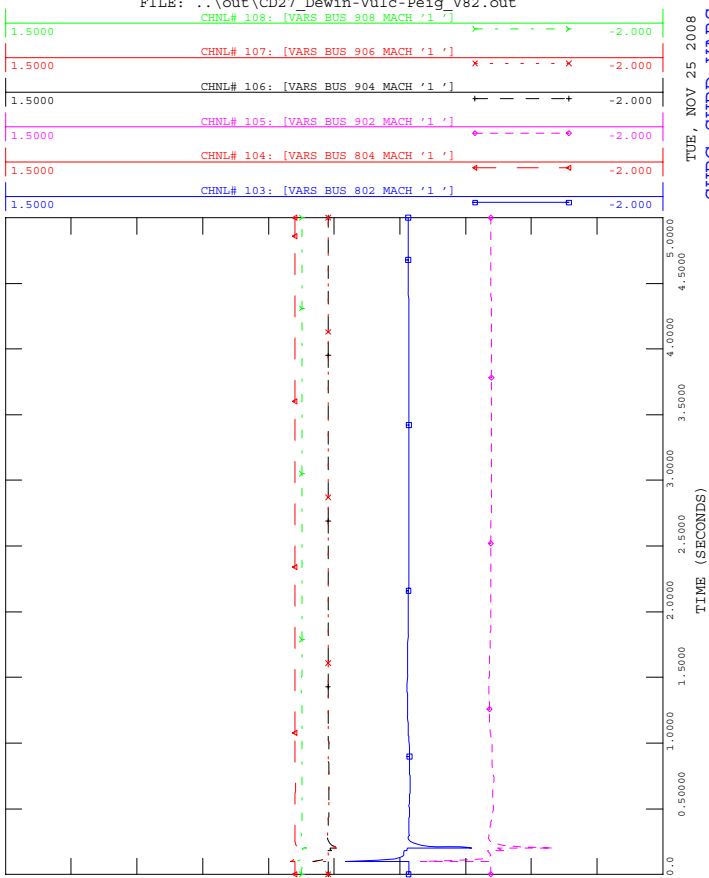
TUE, NOV 25 2008 17:26

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



AEBSO CASE

FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out



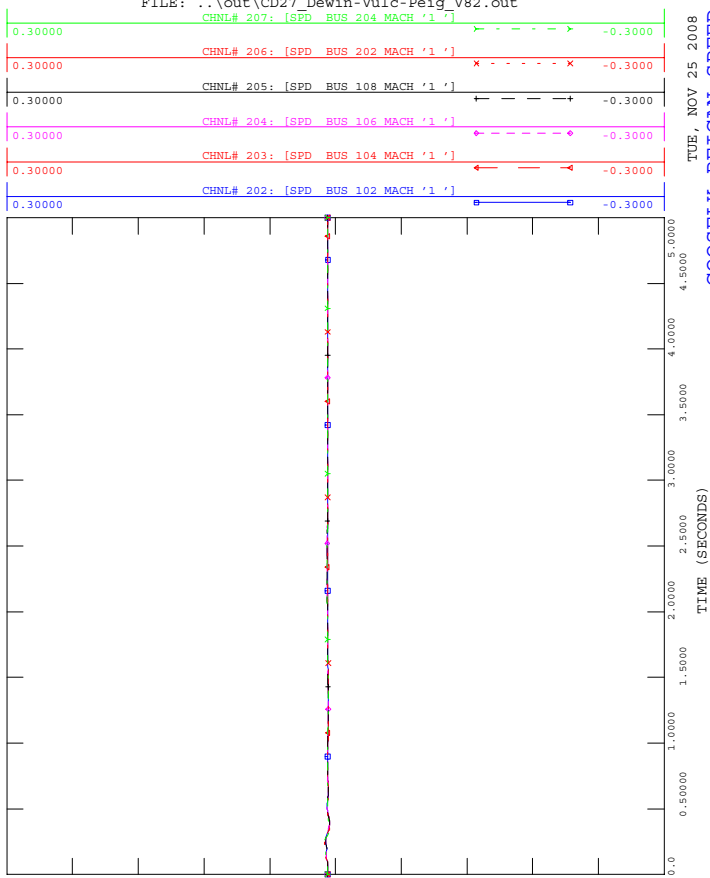
TUE, NOV 25 2008 17:26

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

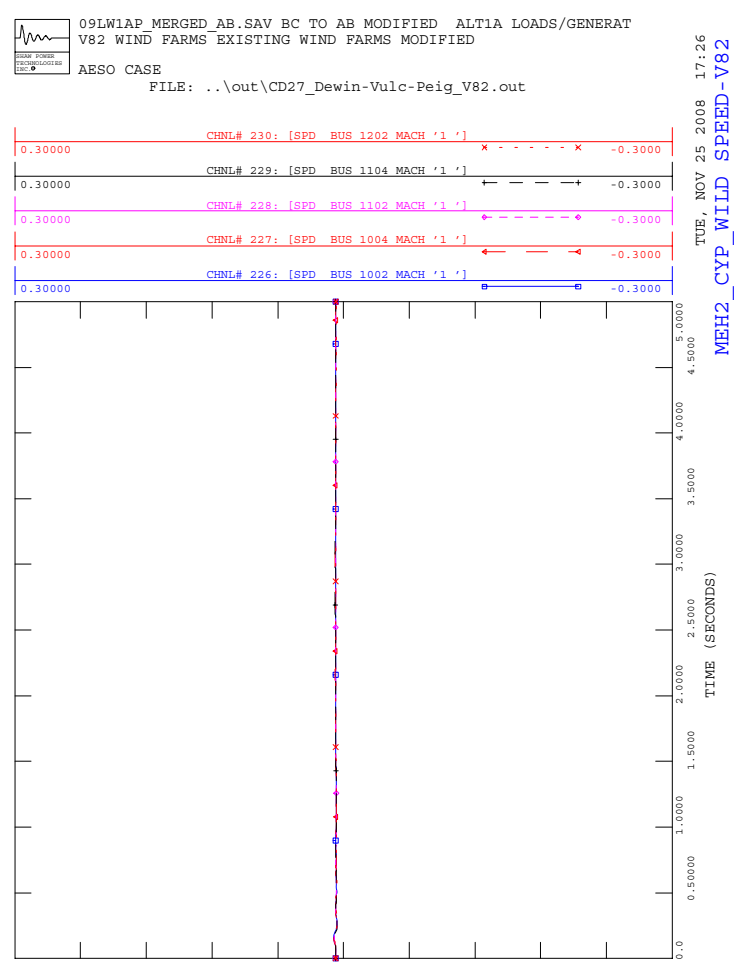
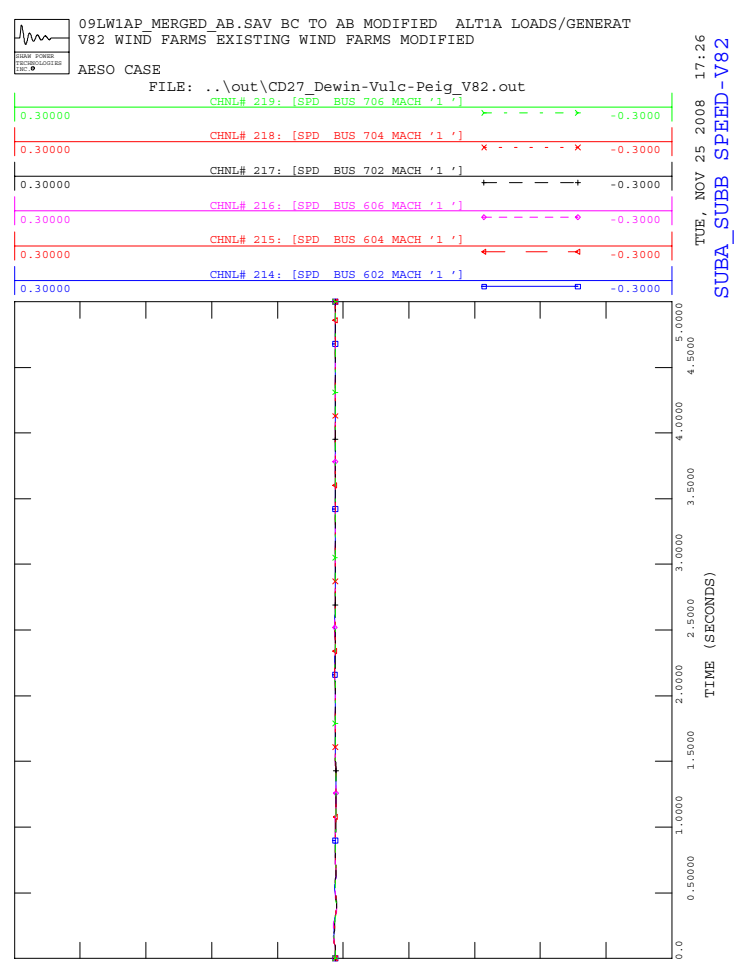
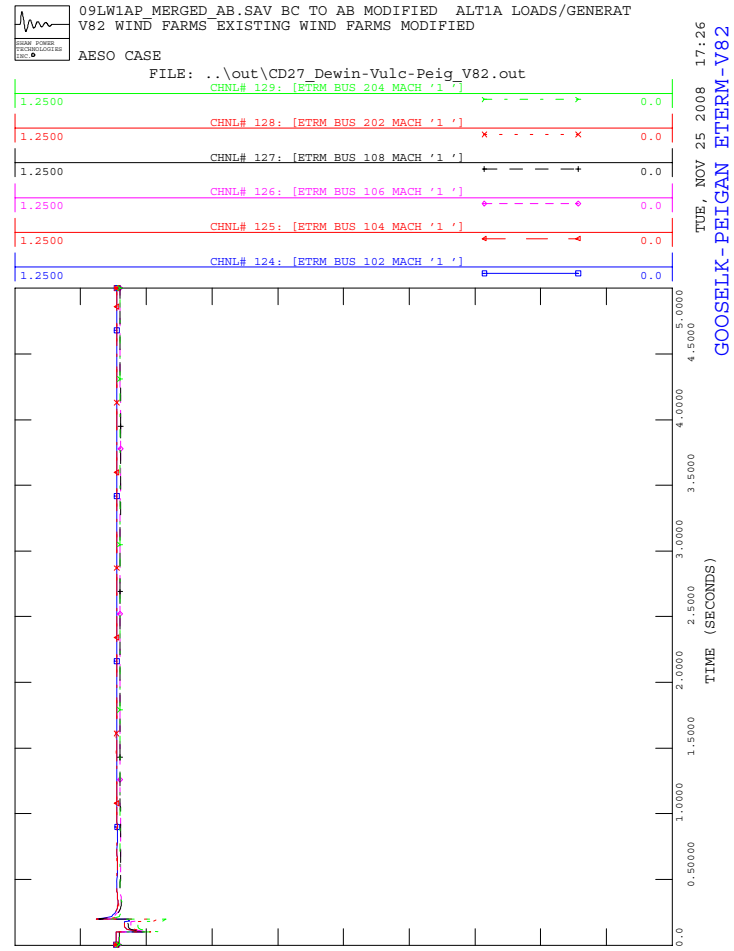
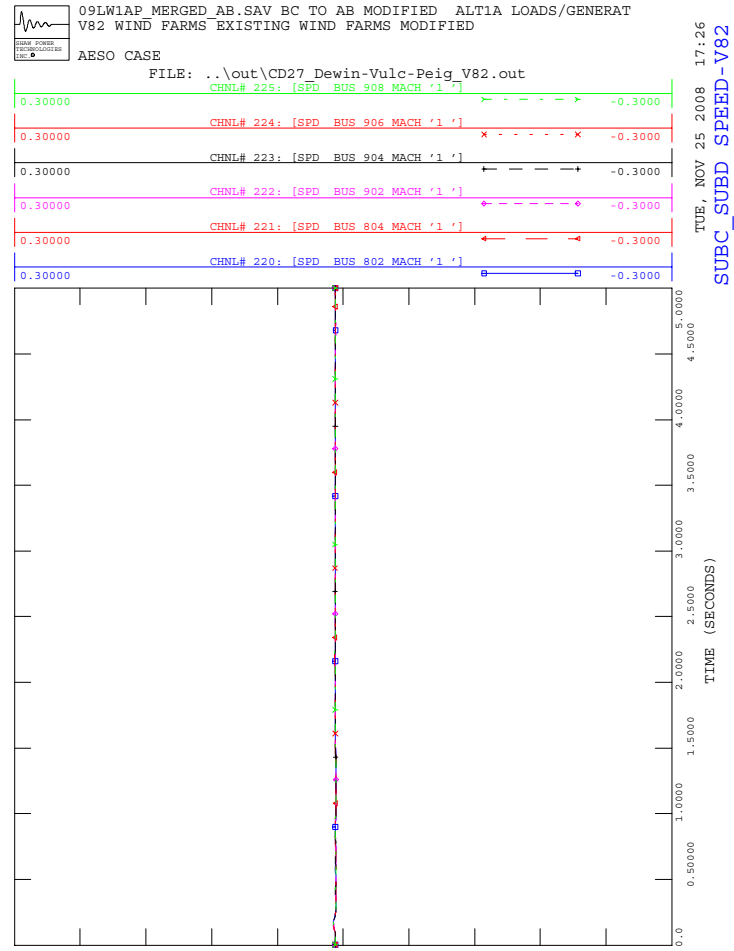


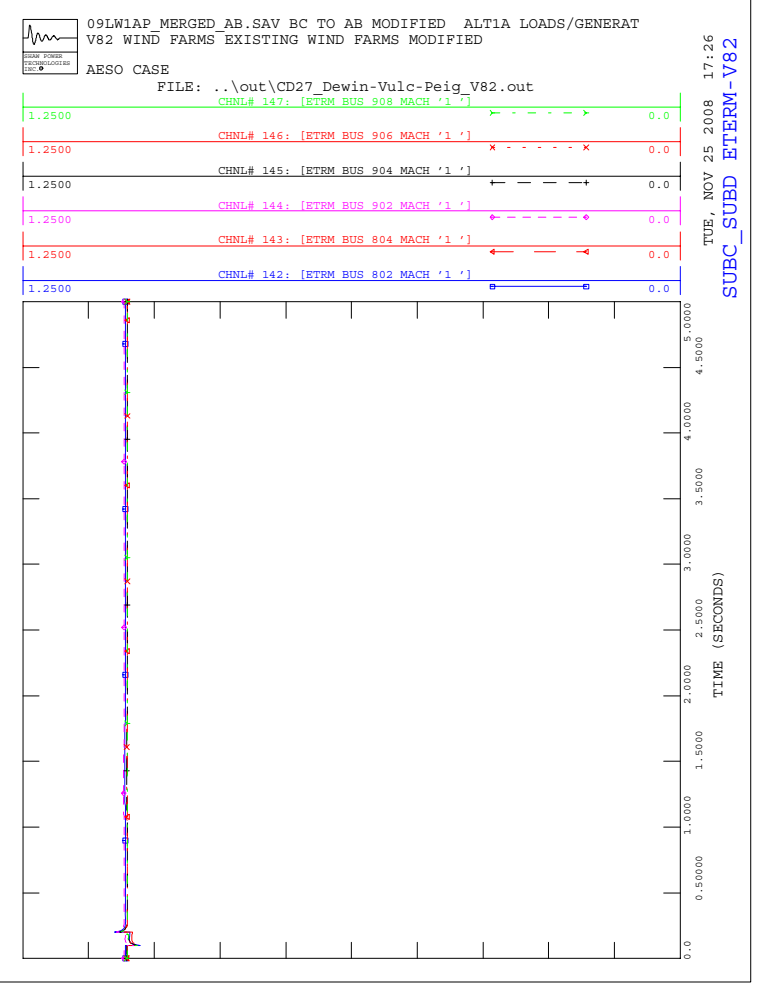
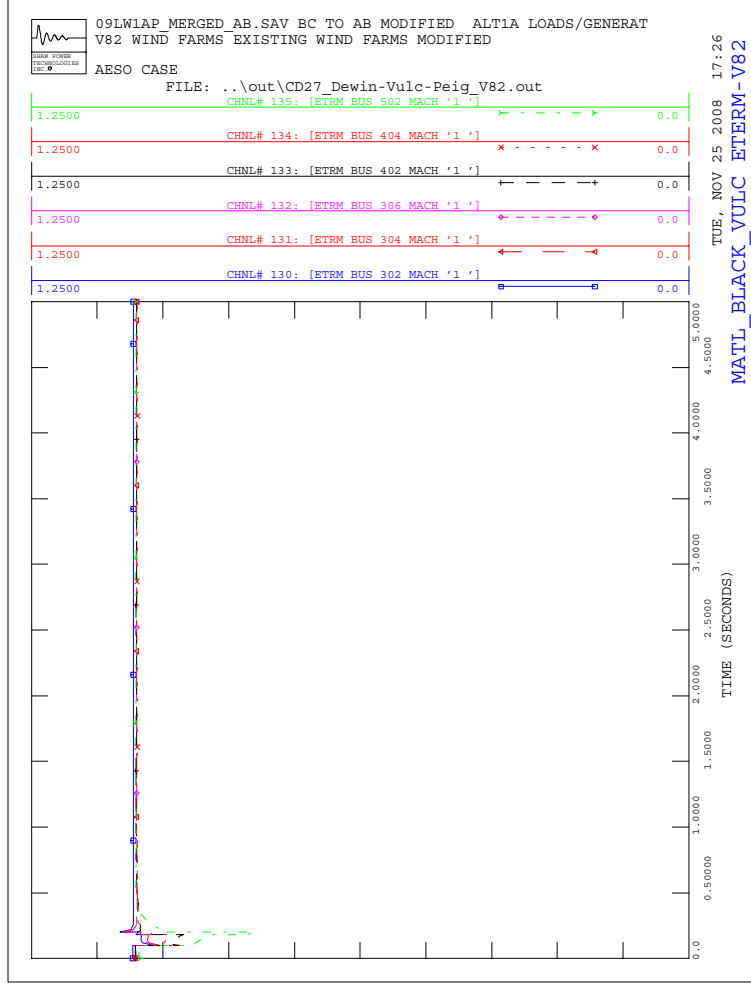
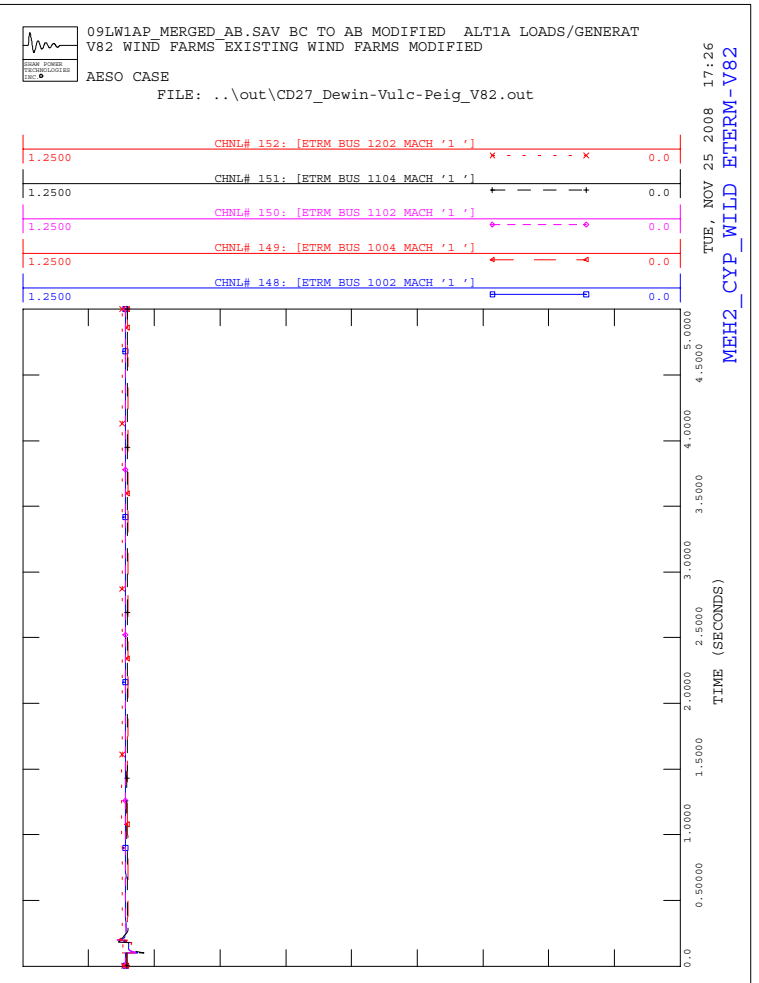
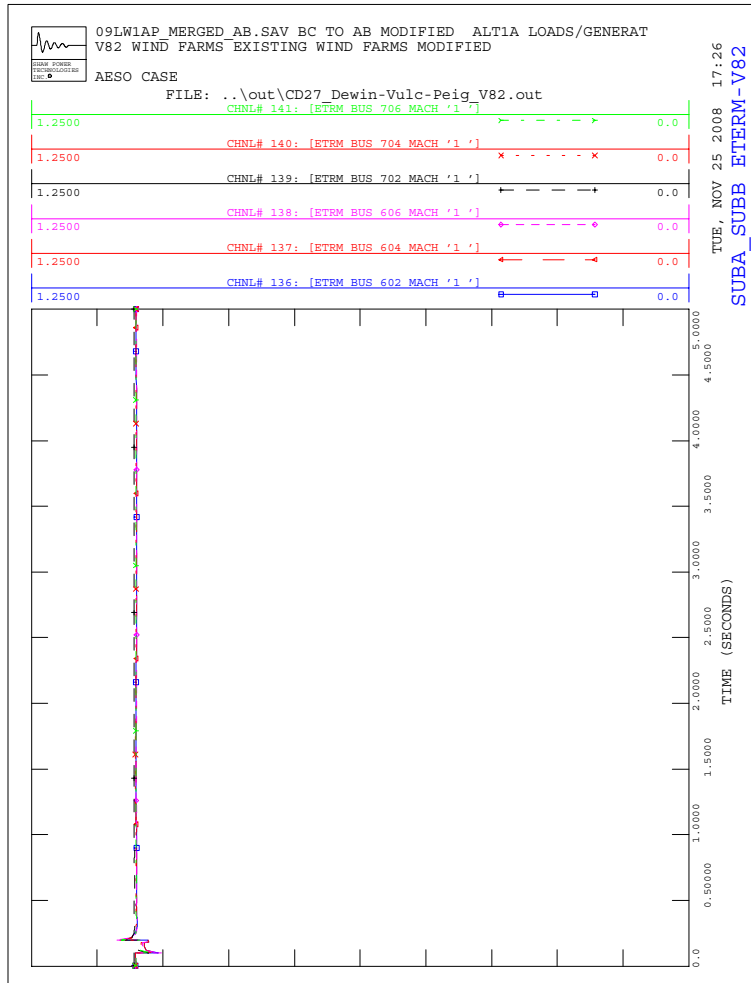
AEBSO CASE

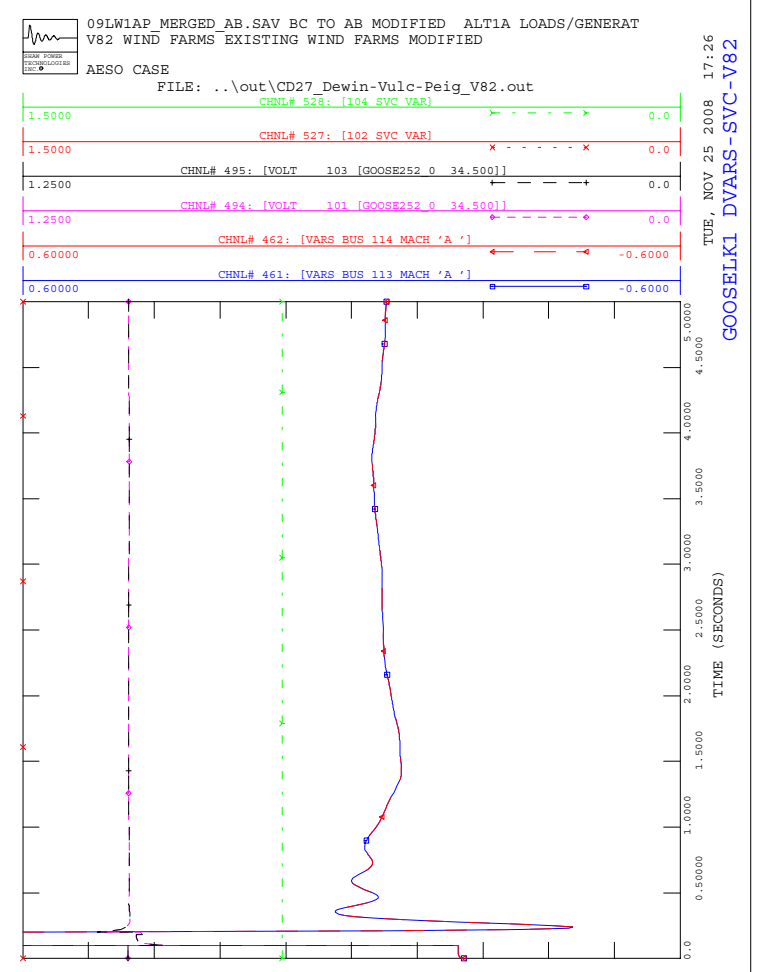
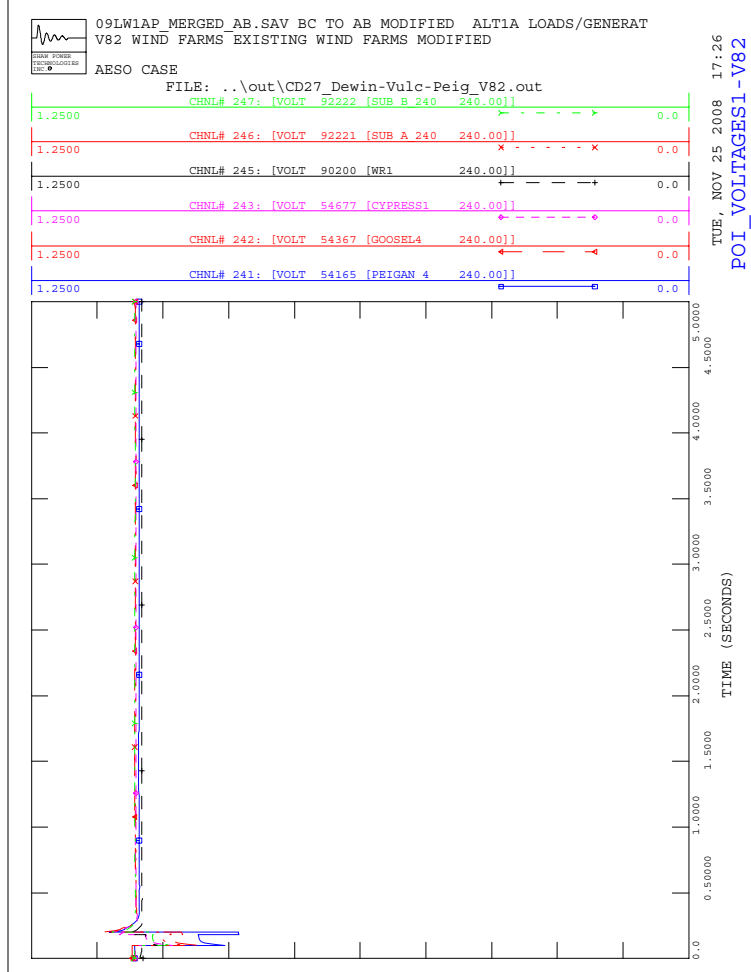
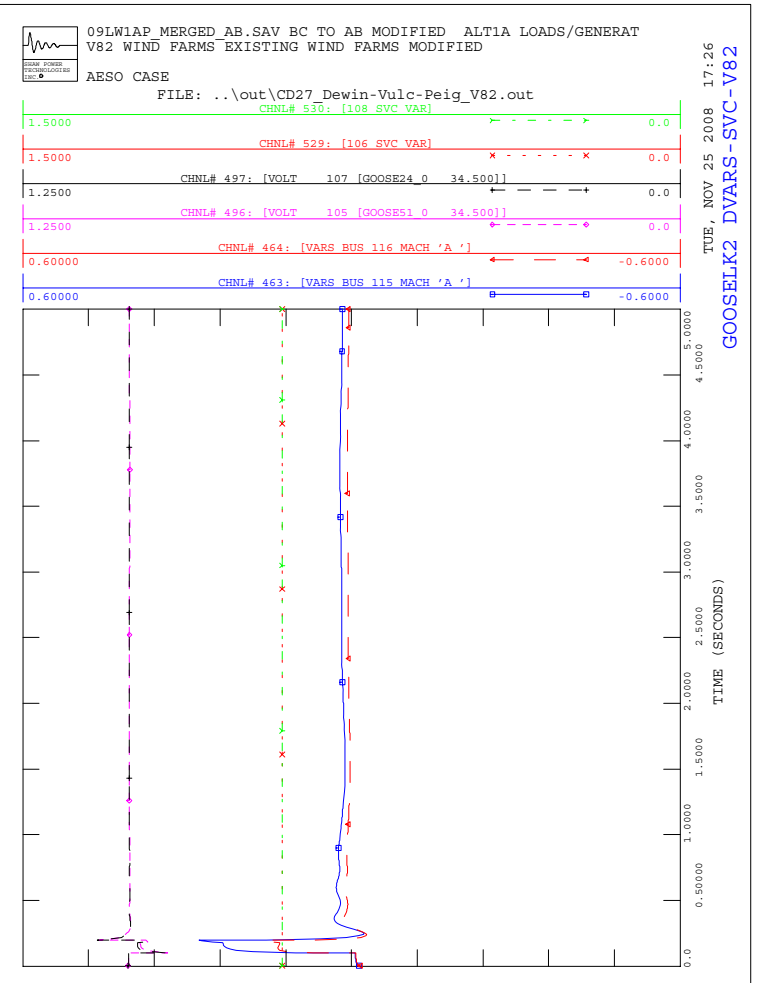
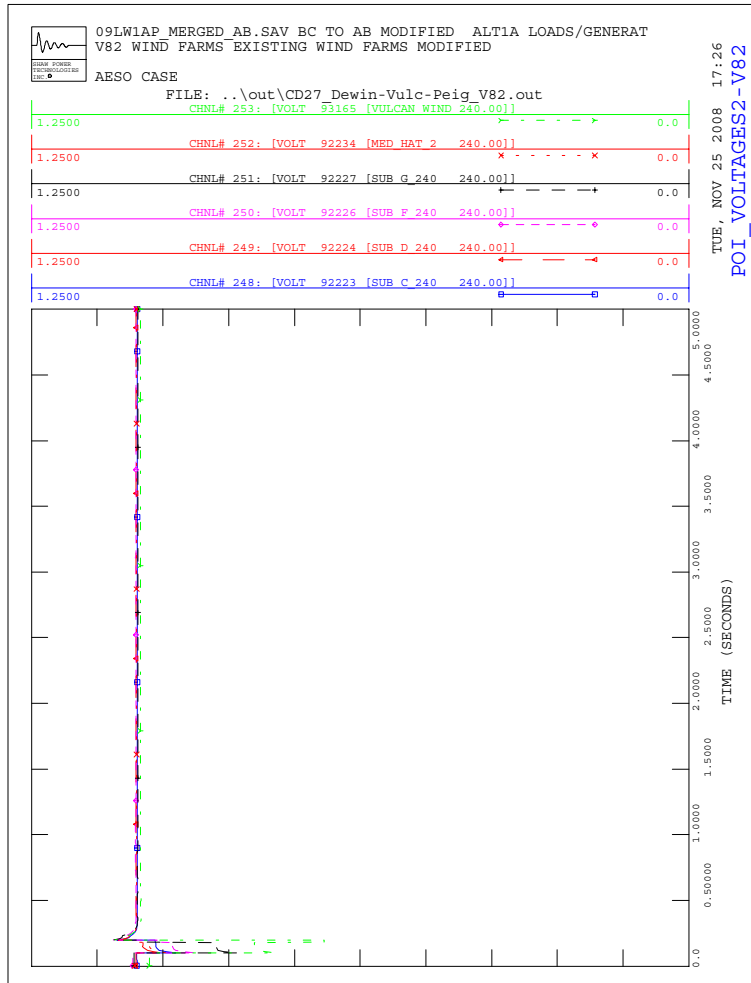
FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out



TUE, NOV 25 2008 17:26

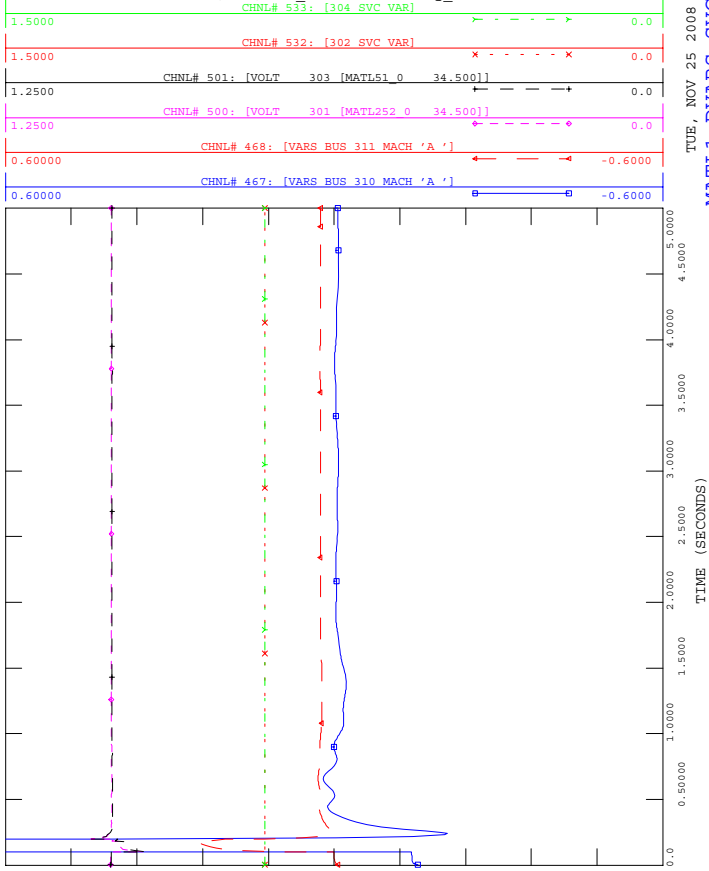






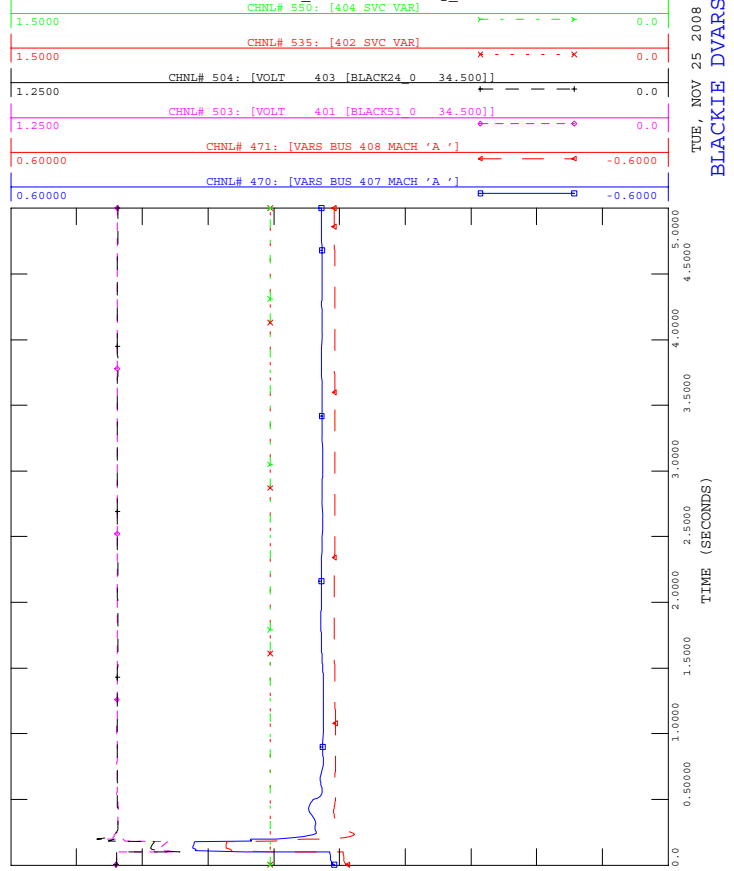
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out



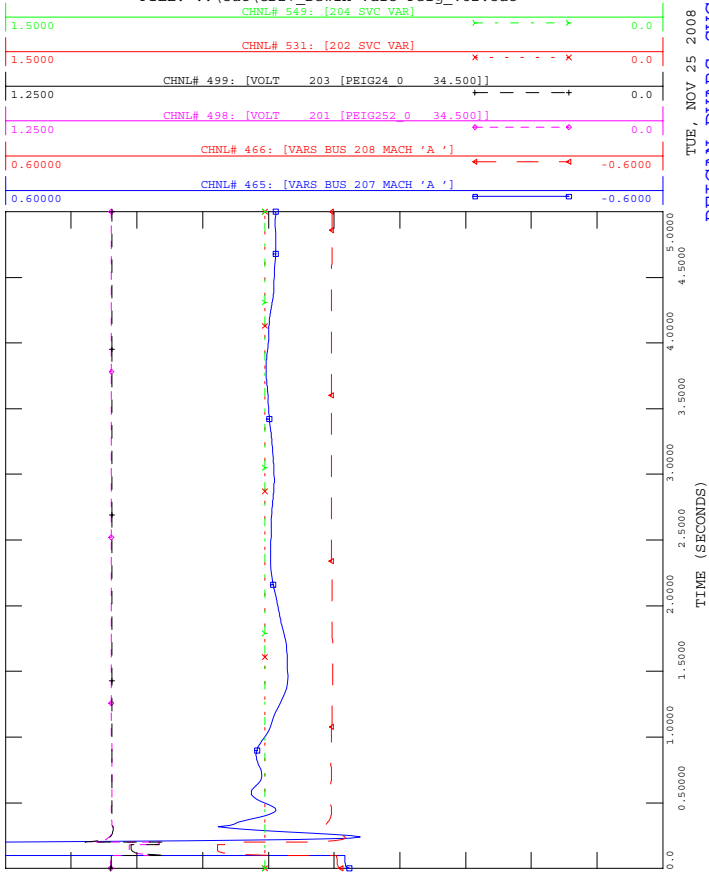
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 AESO CASE

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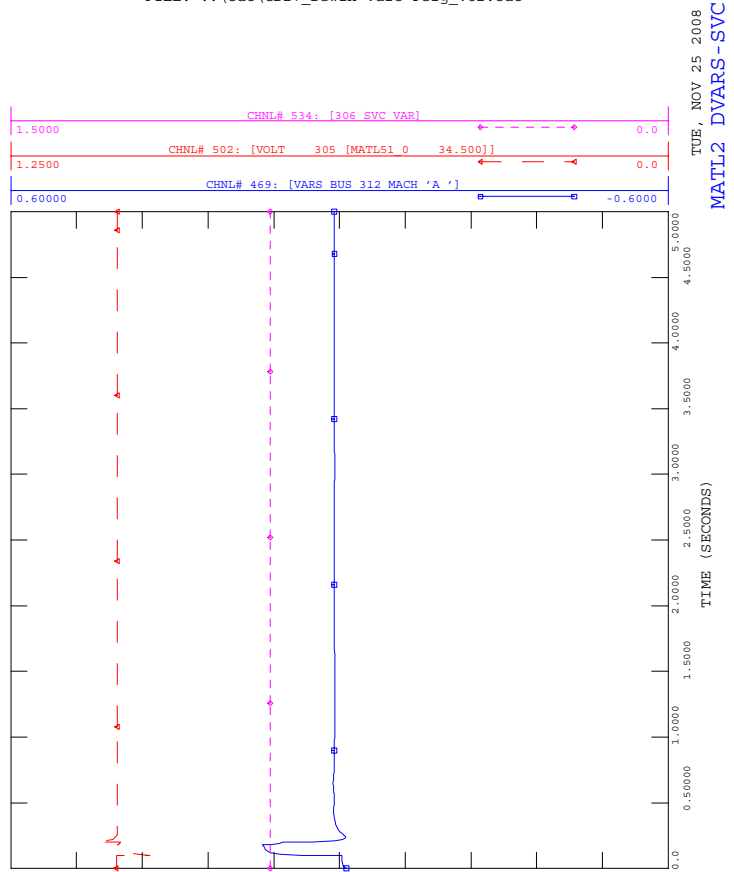
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

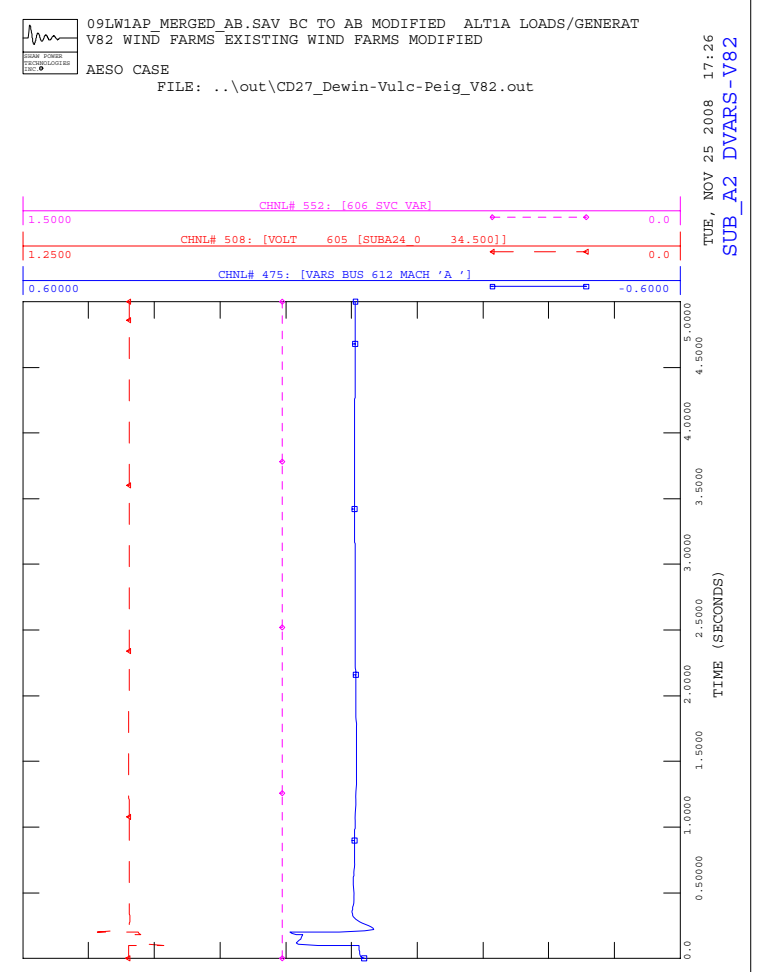
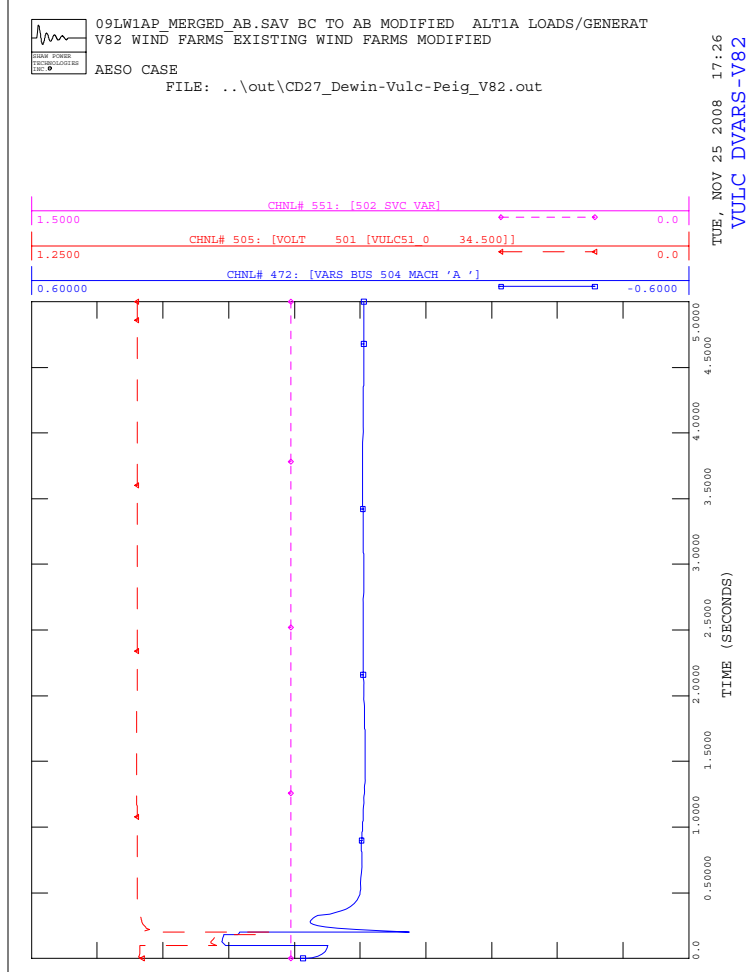
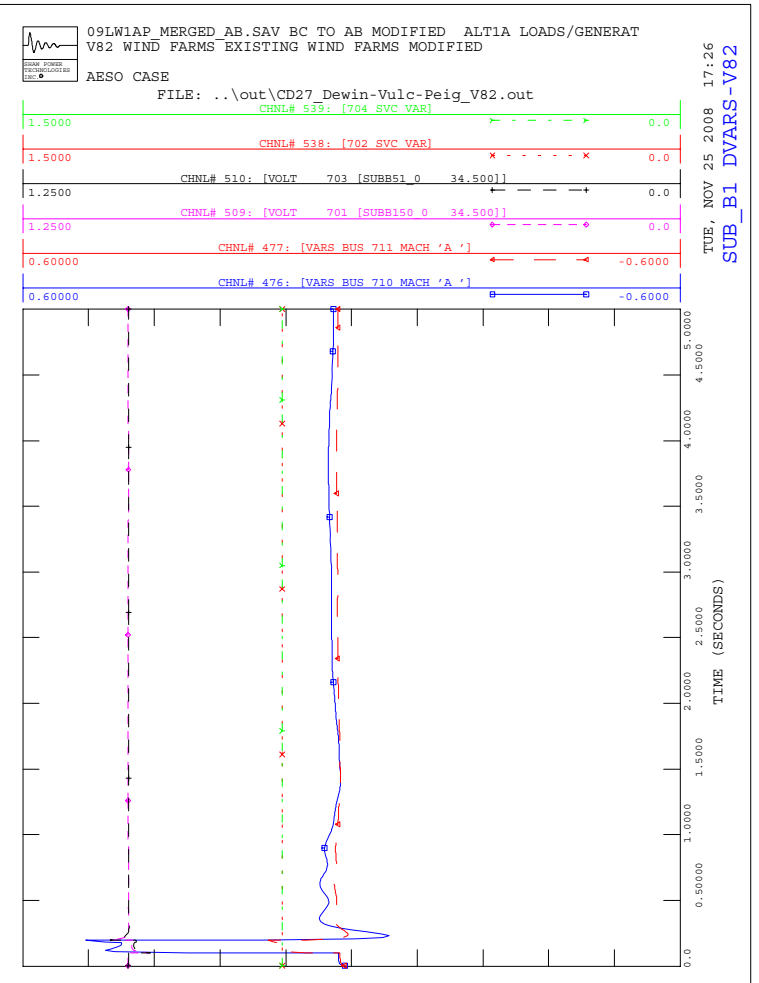
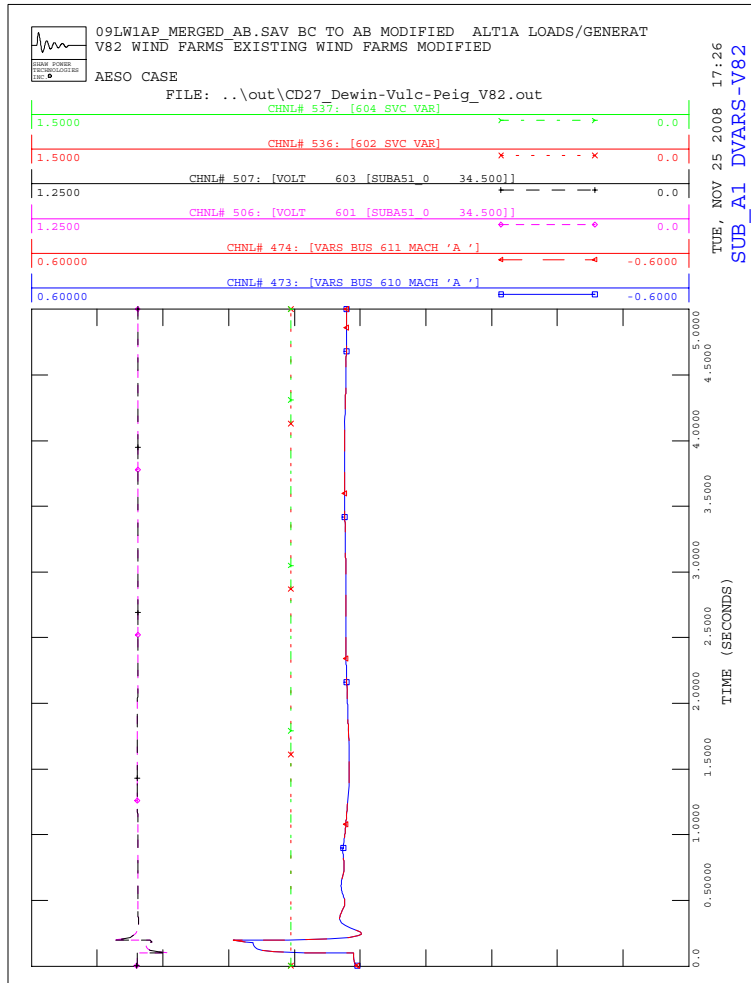
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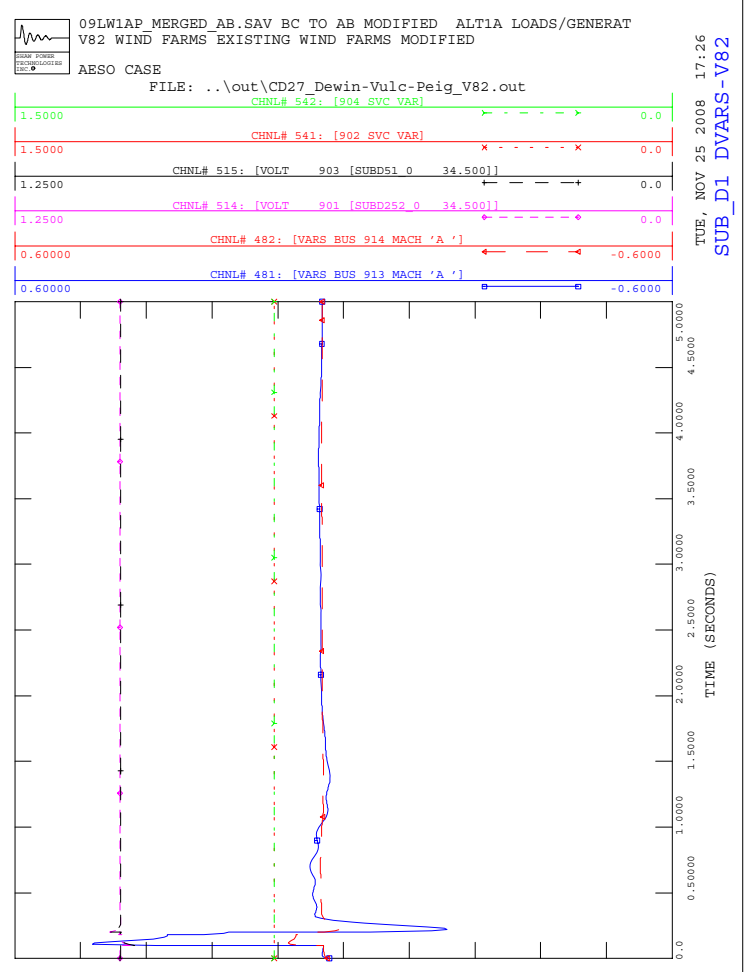
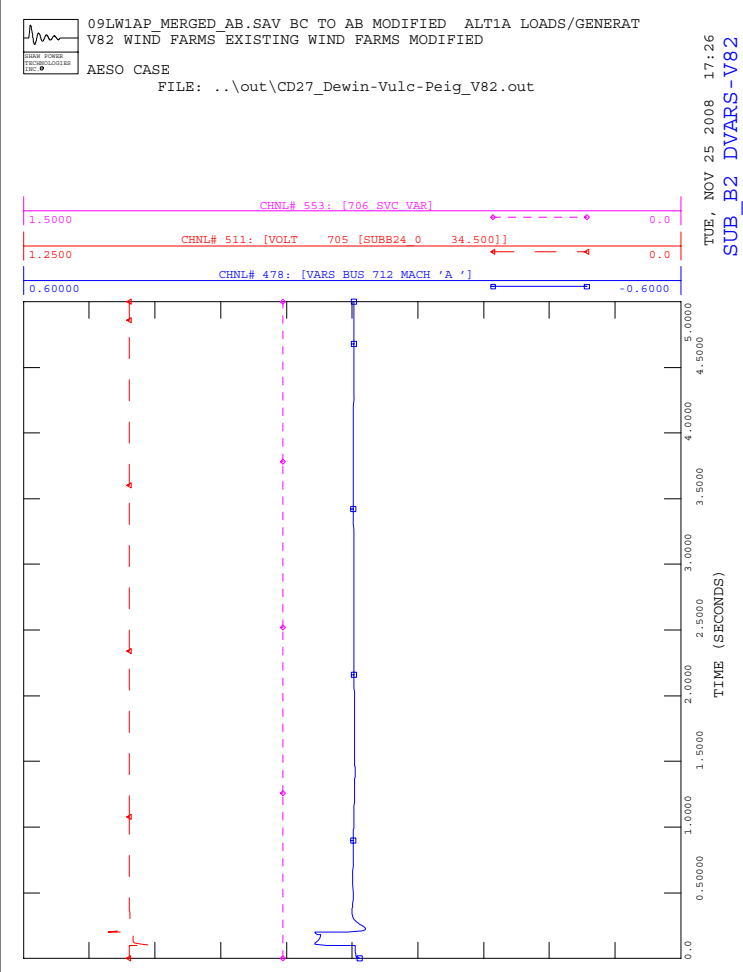
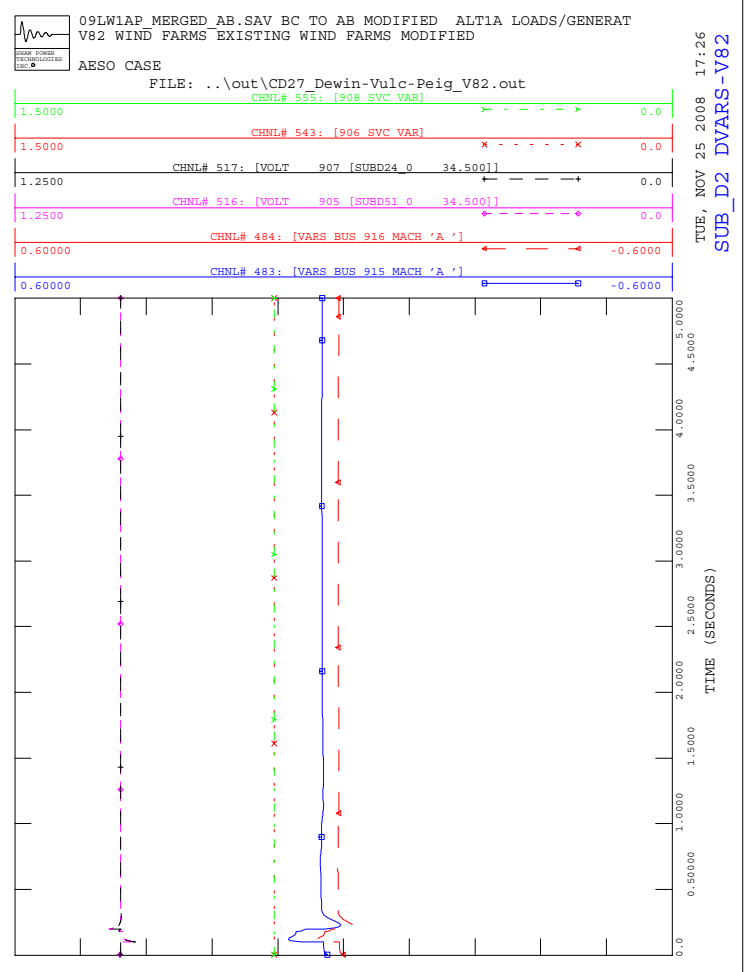
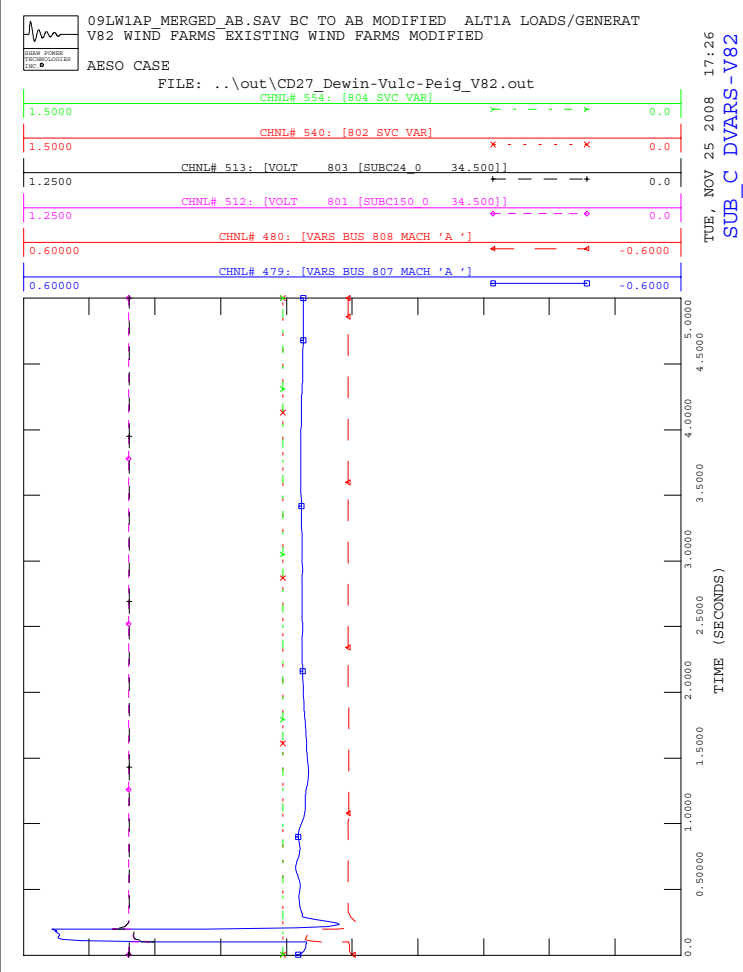


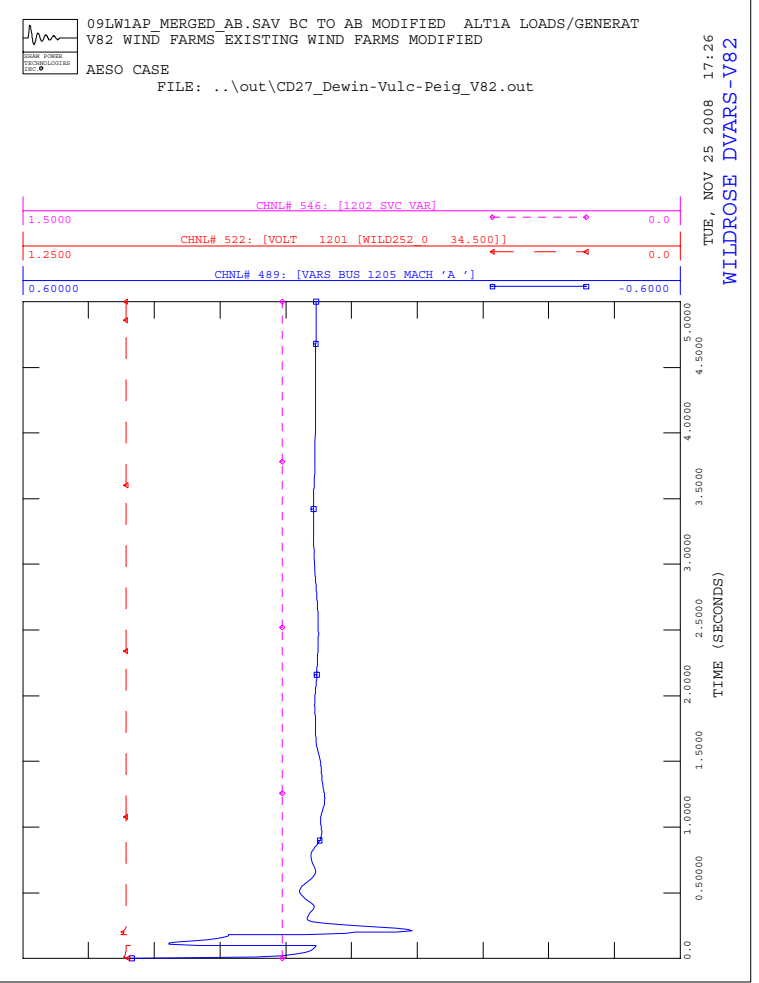
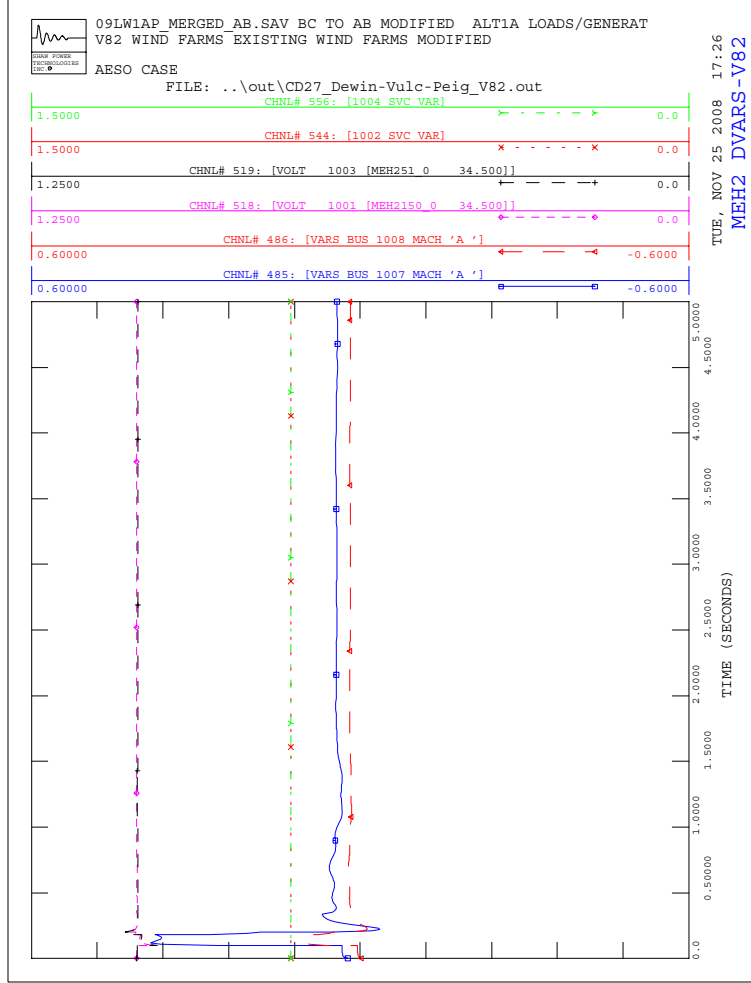
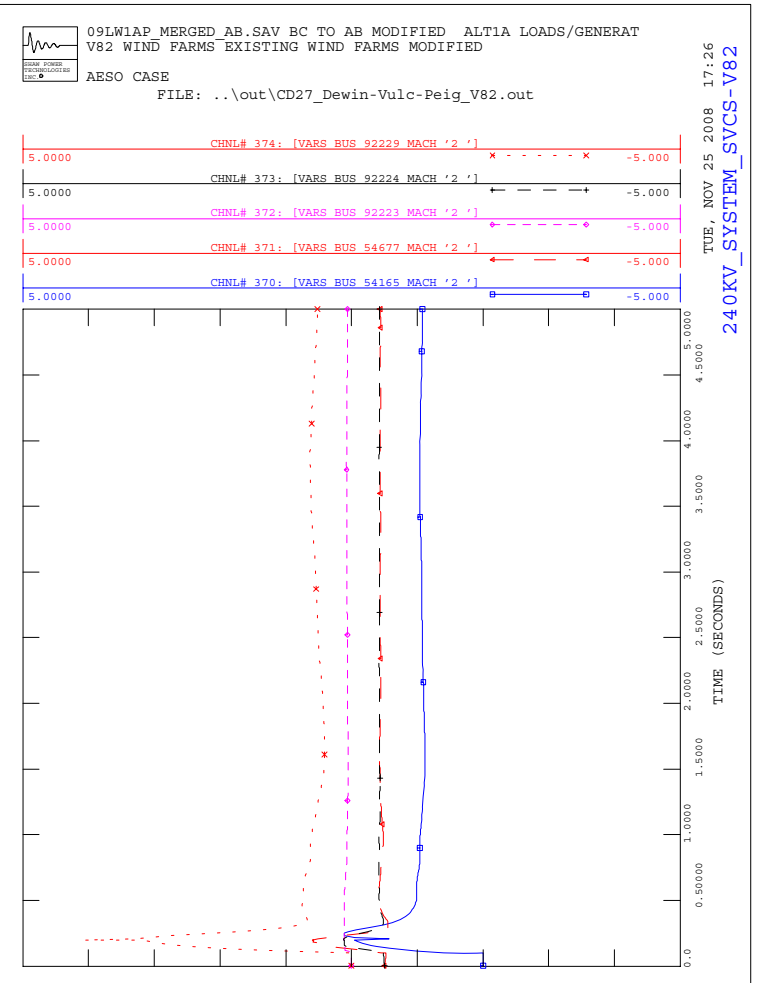
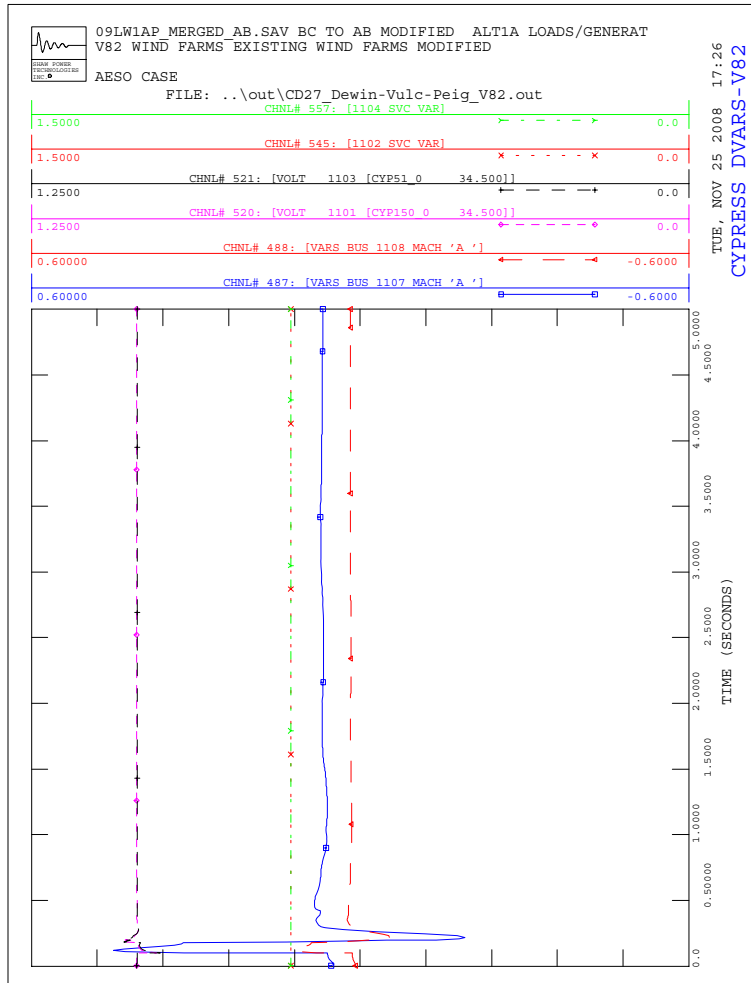
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out





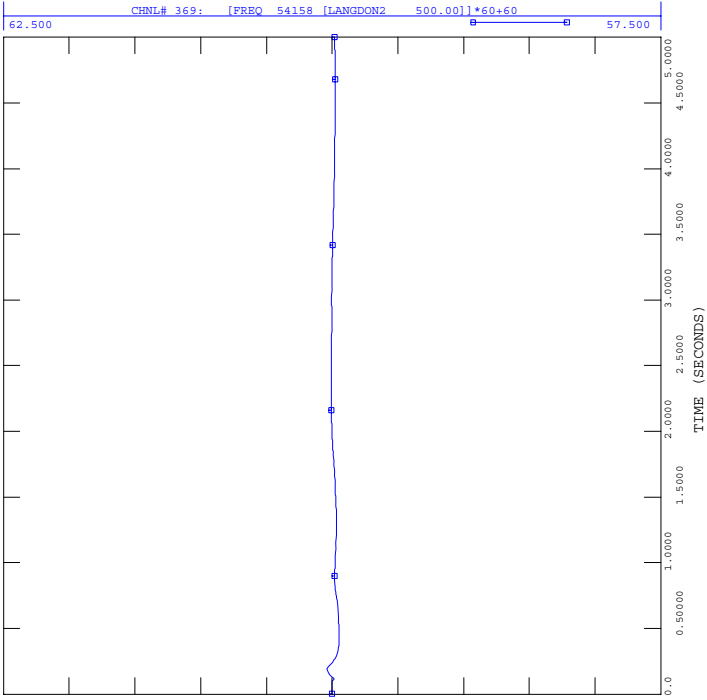






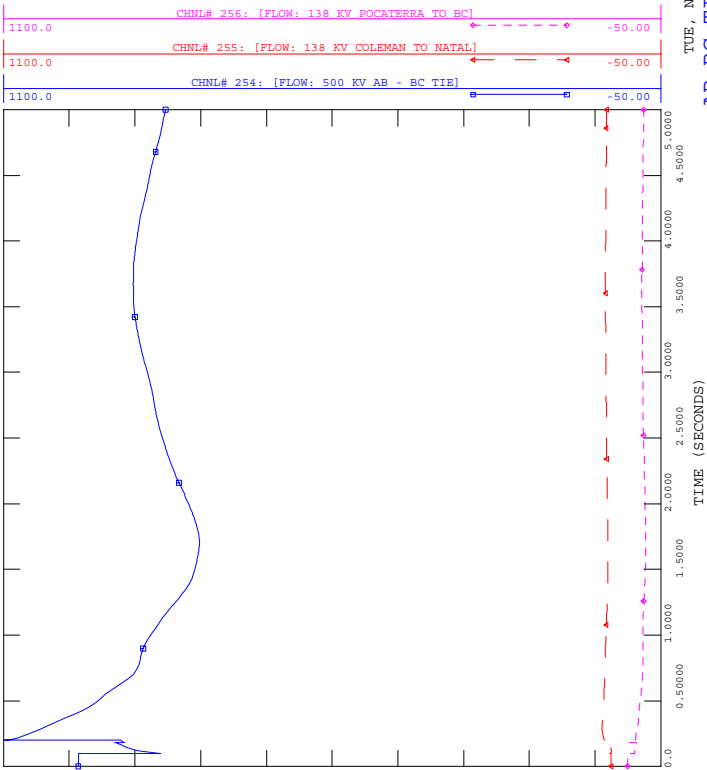
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out

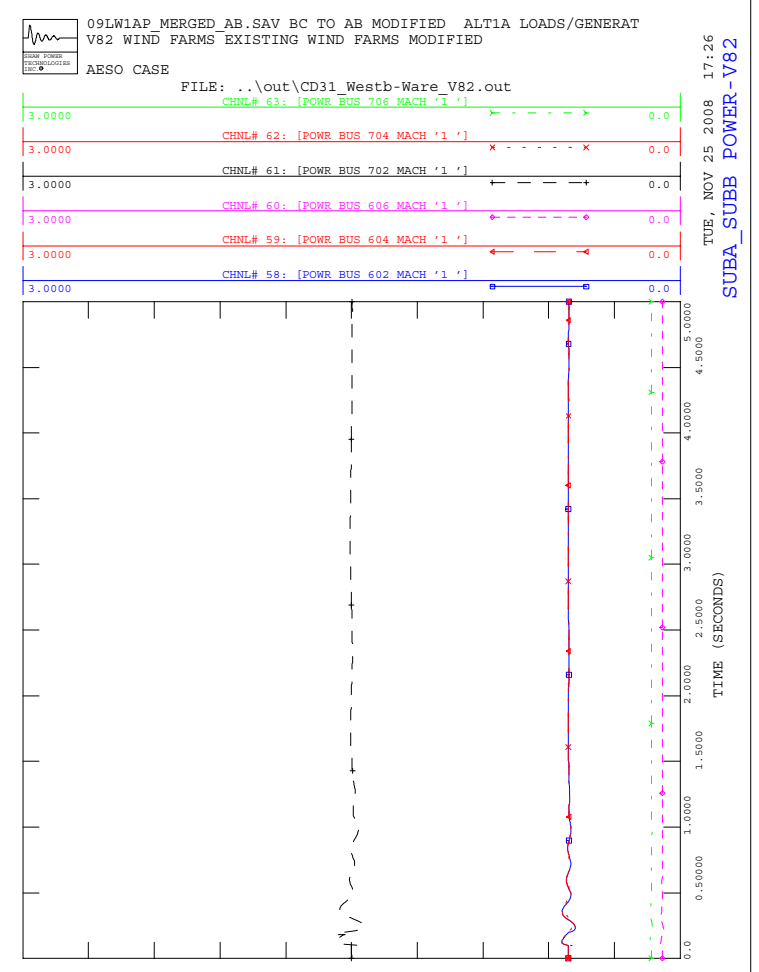
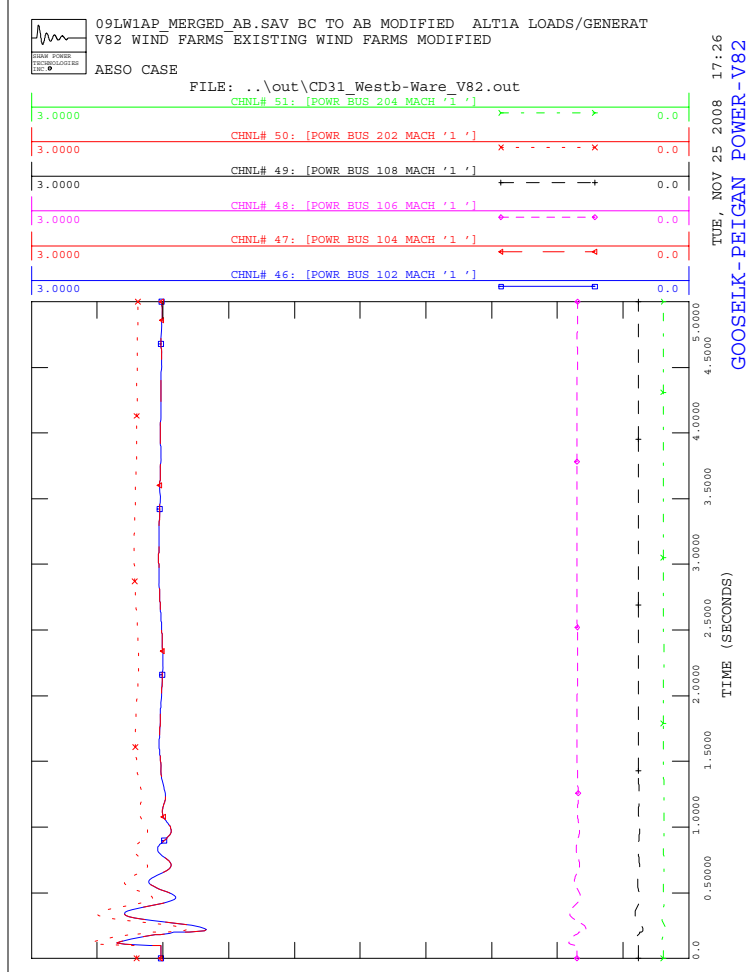
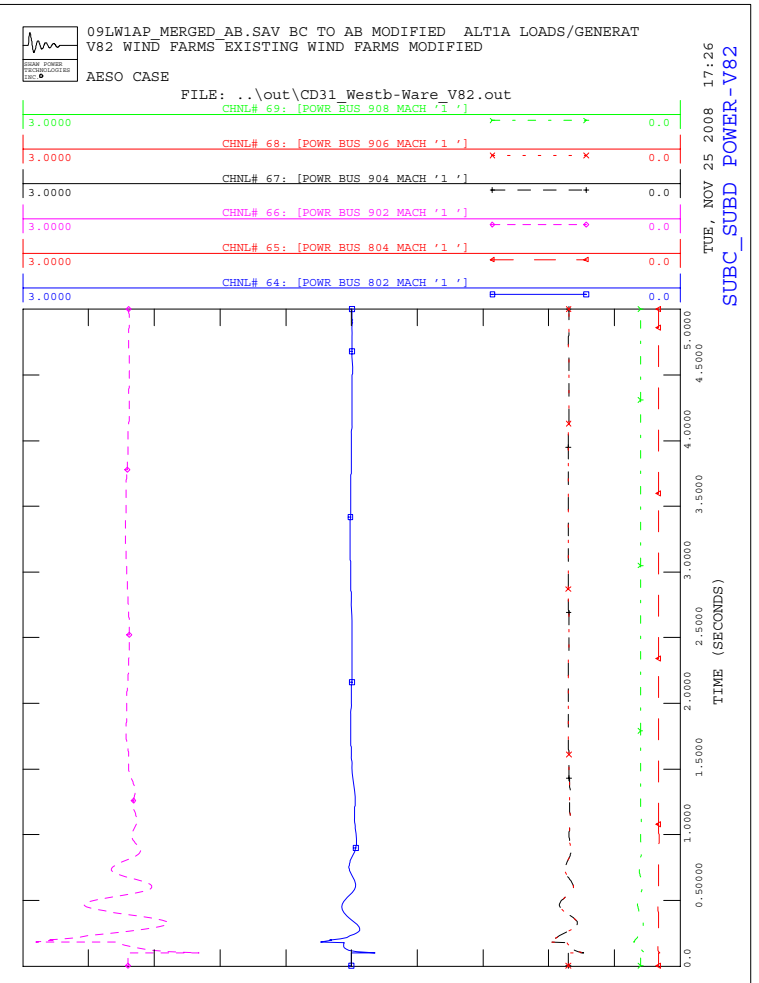
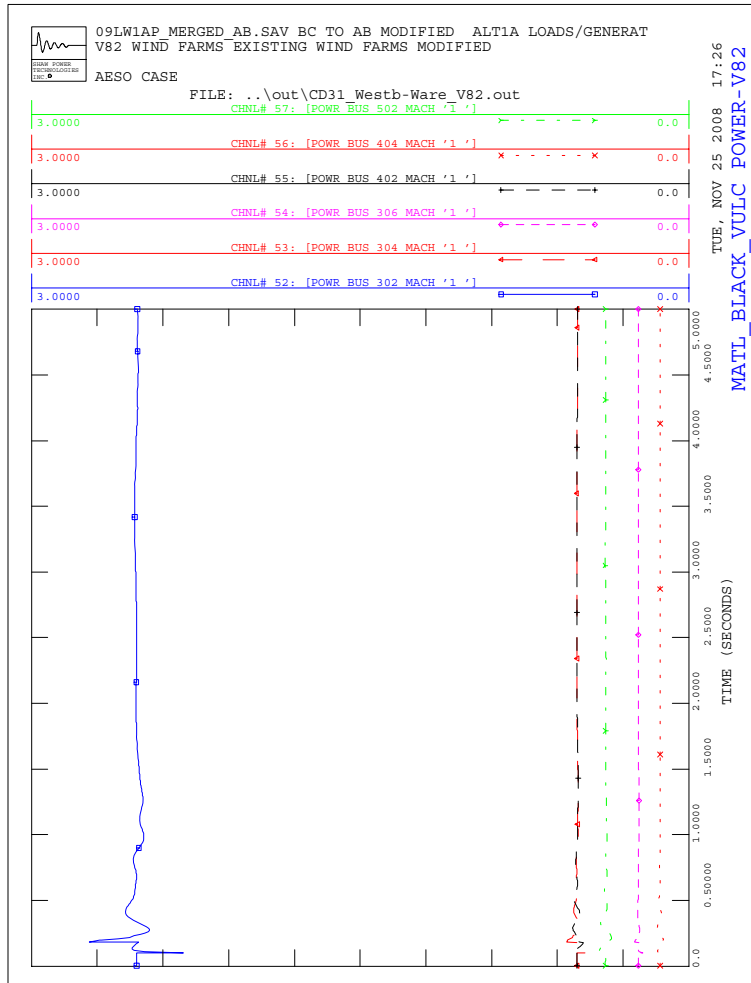
TUE, NOV 25 2008 17:26
LANGDON_FRQ-V82

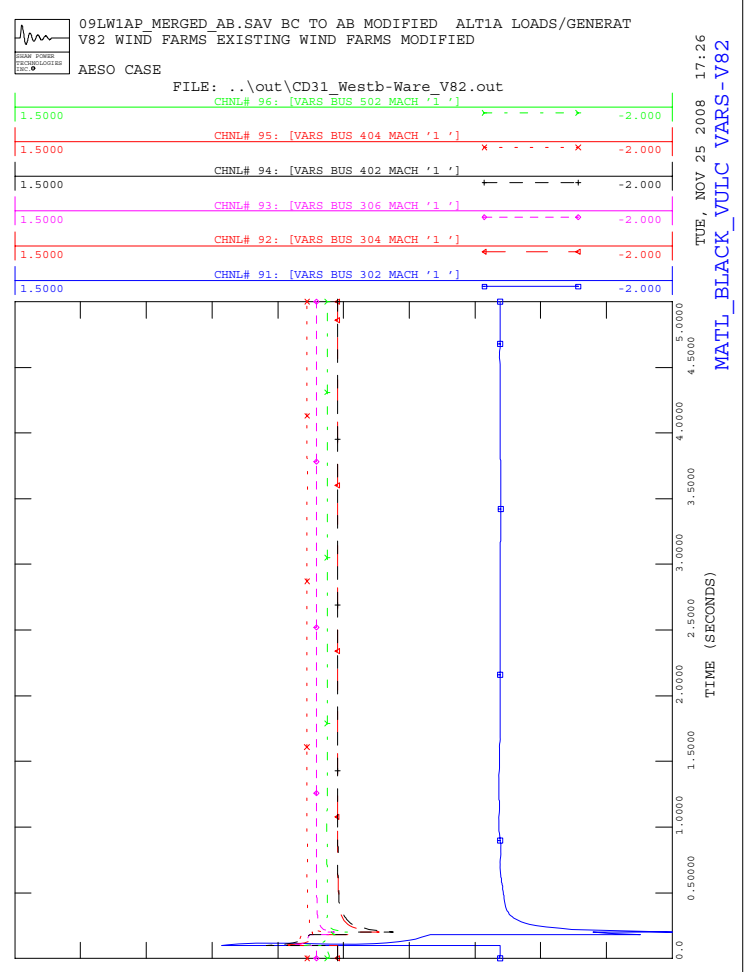
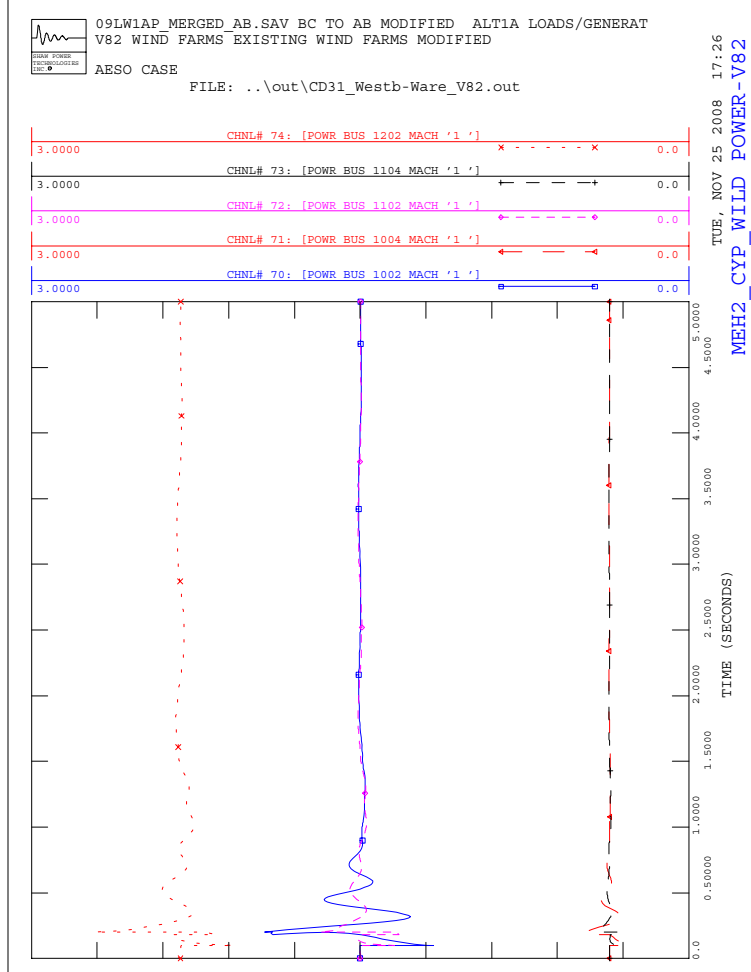
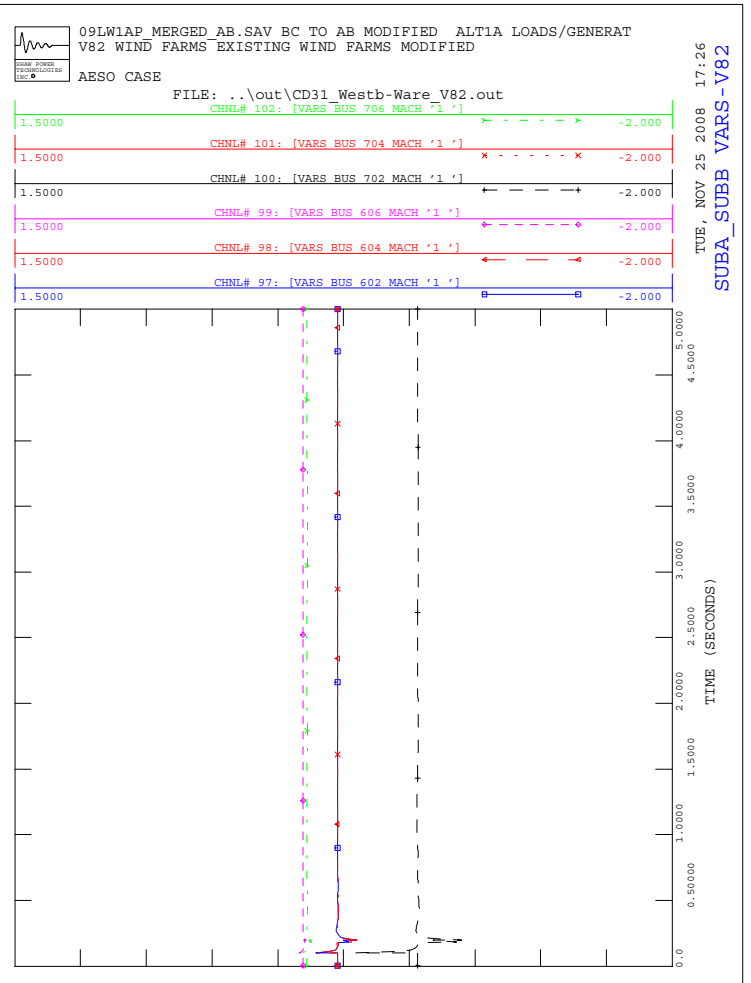
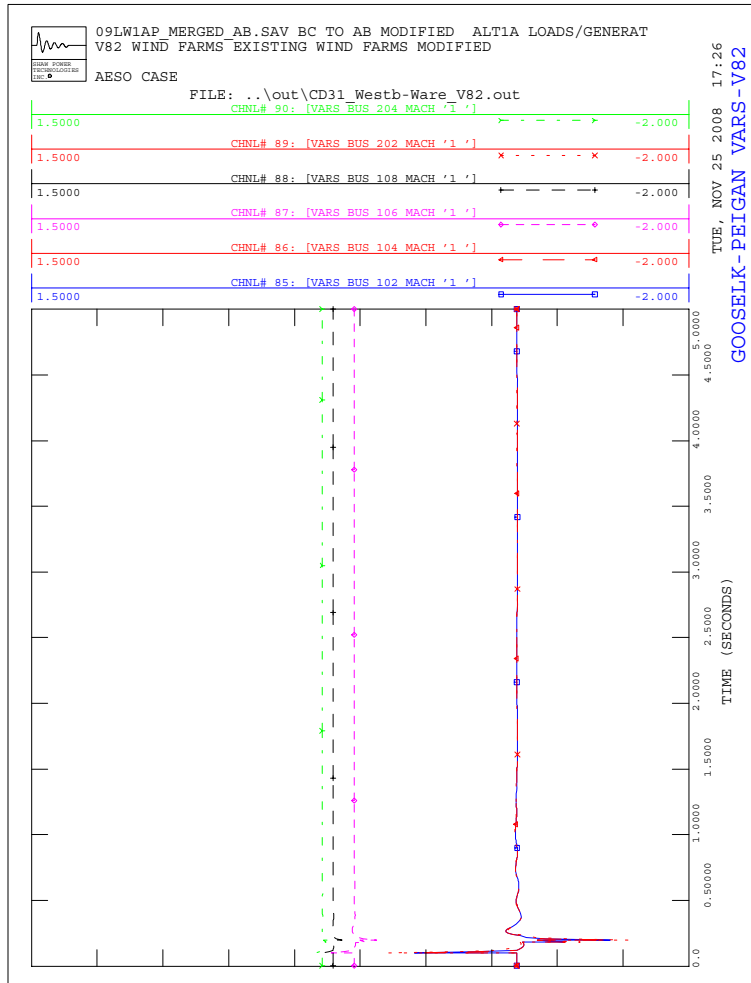


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\CD27_Dewin-Vulc-Peig_V82.out

TUE, NOV 25 2008 17:26
AB_BC_TIE_FLOWS-V82

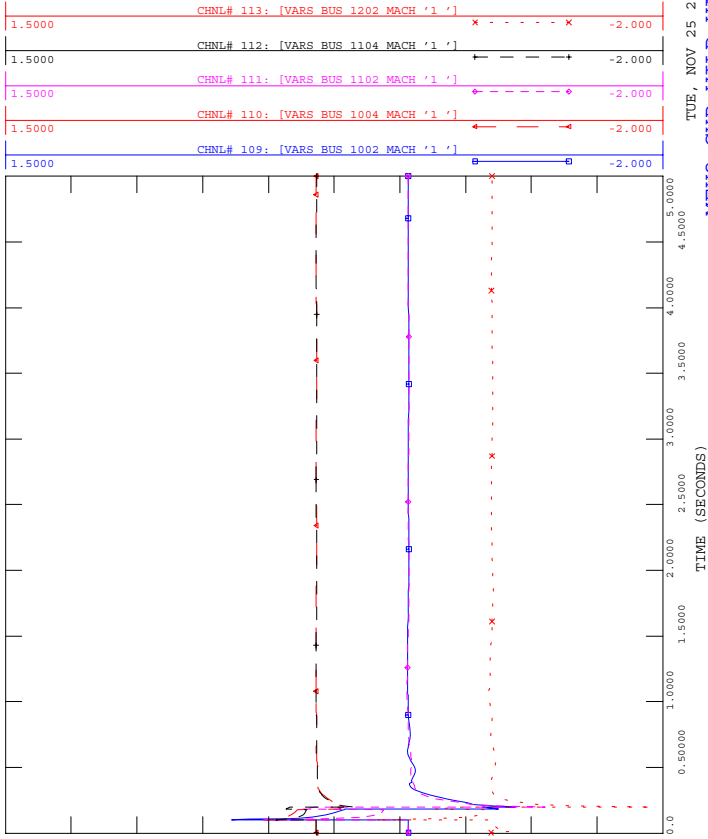






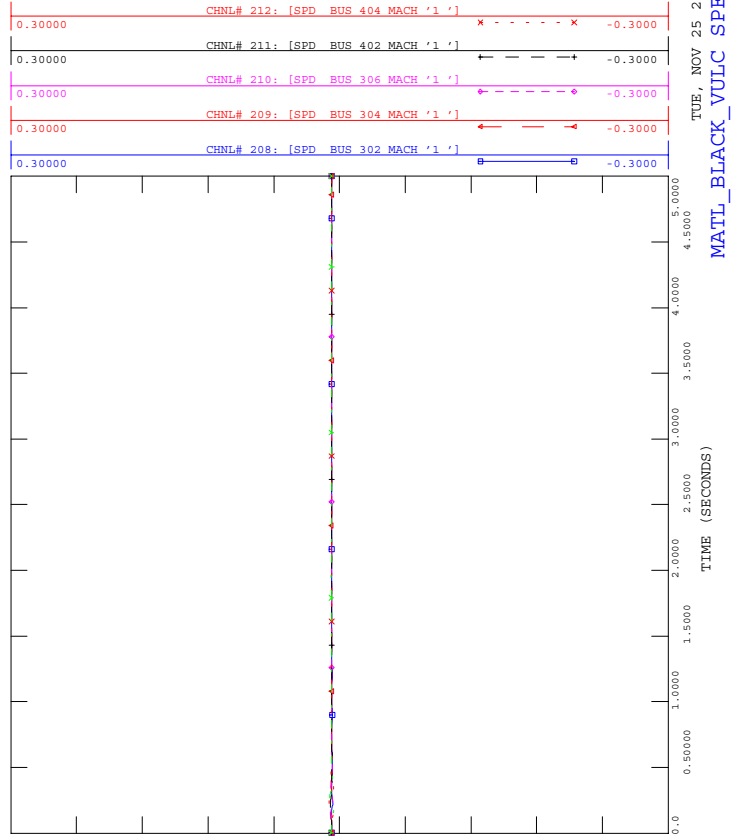
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out



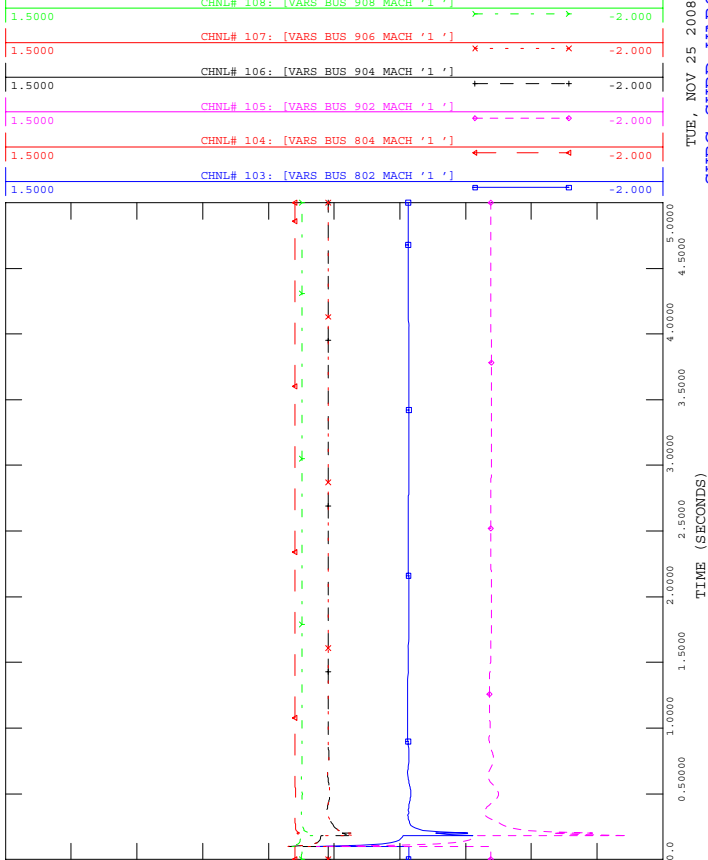
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out



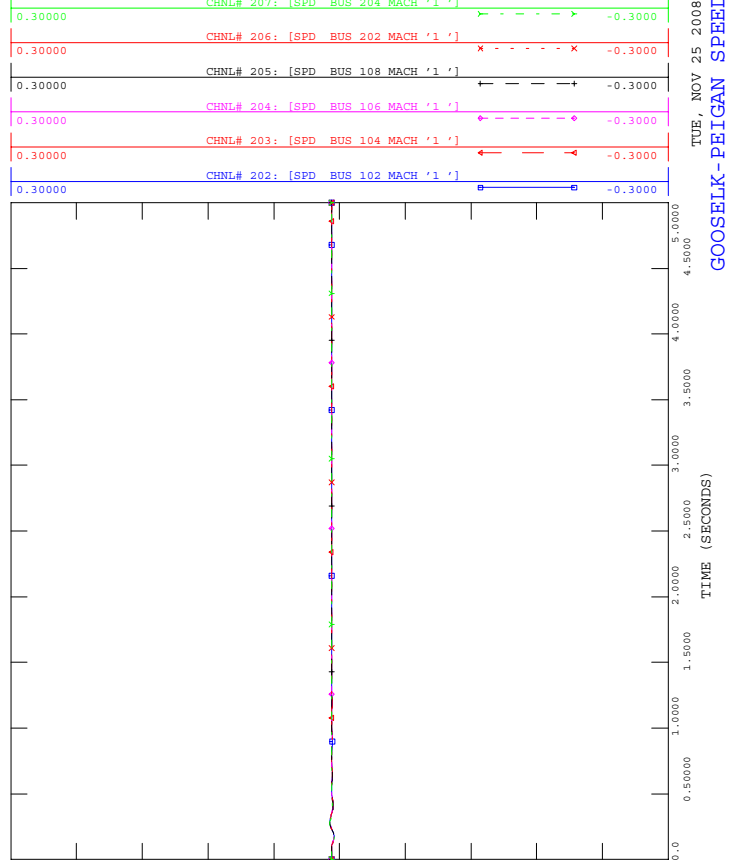
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 AESO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out



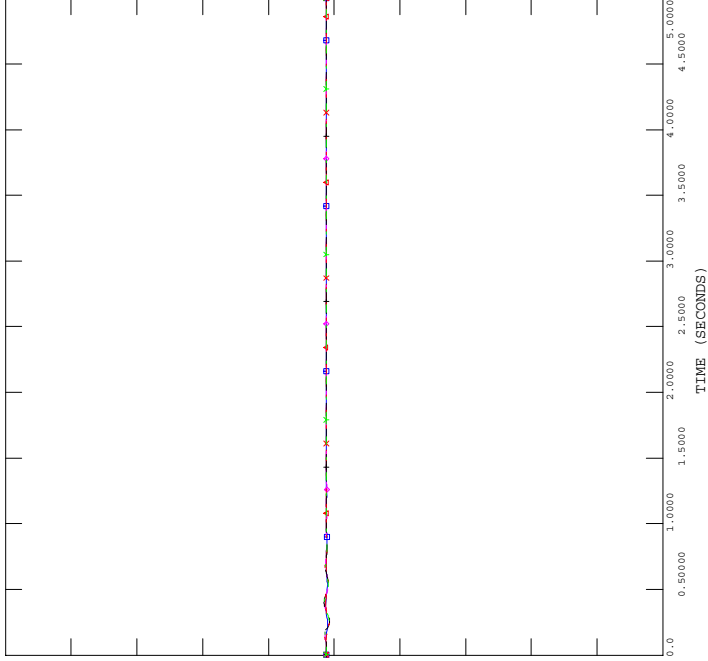
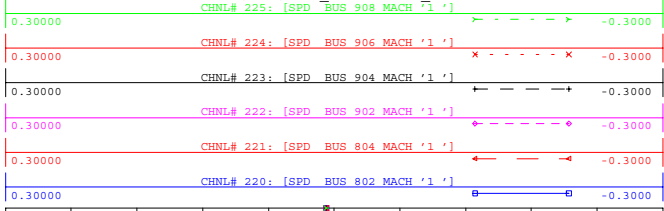
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out



09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

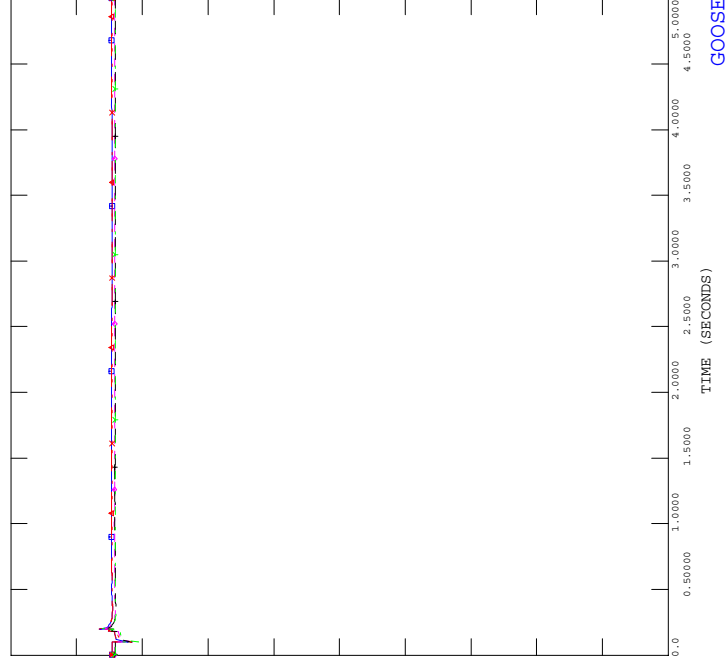
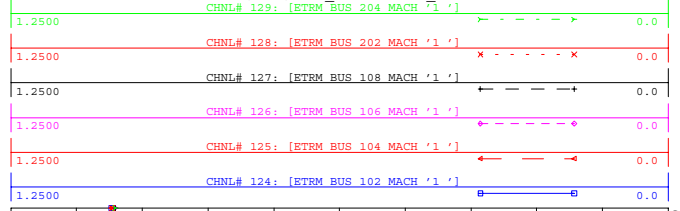
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TUE, NOV 25 2008 17:26
SUBC_SUBD SPEED-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

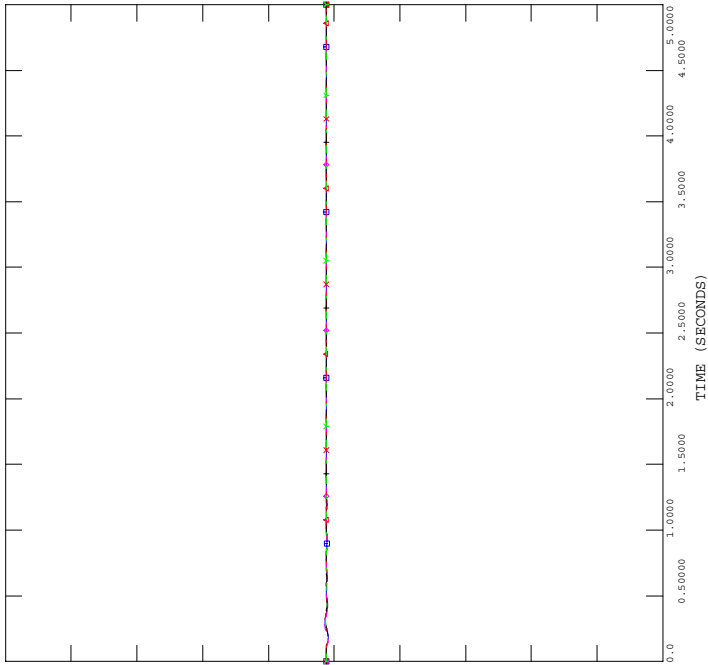
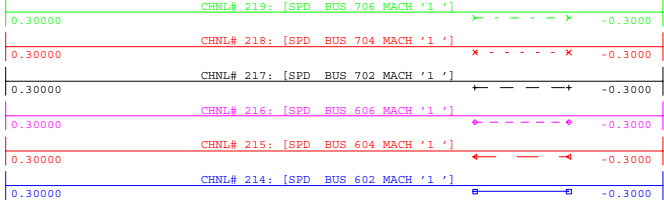
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TUE, NOV 25 2008 17:26
GOOSELK-PEIGAN ETERM-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

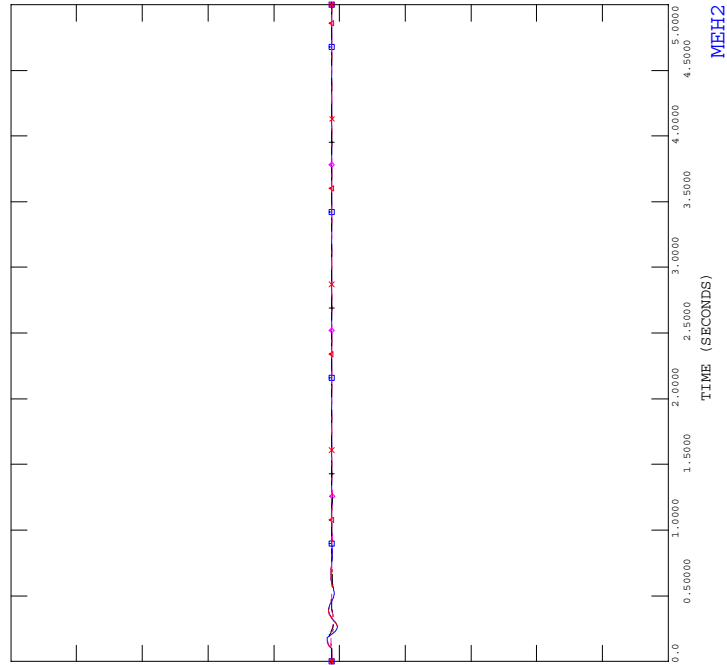
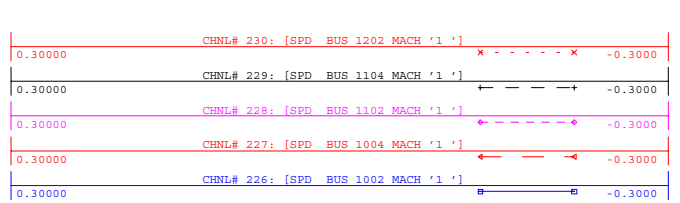
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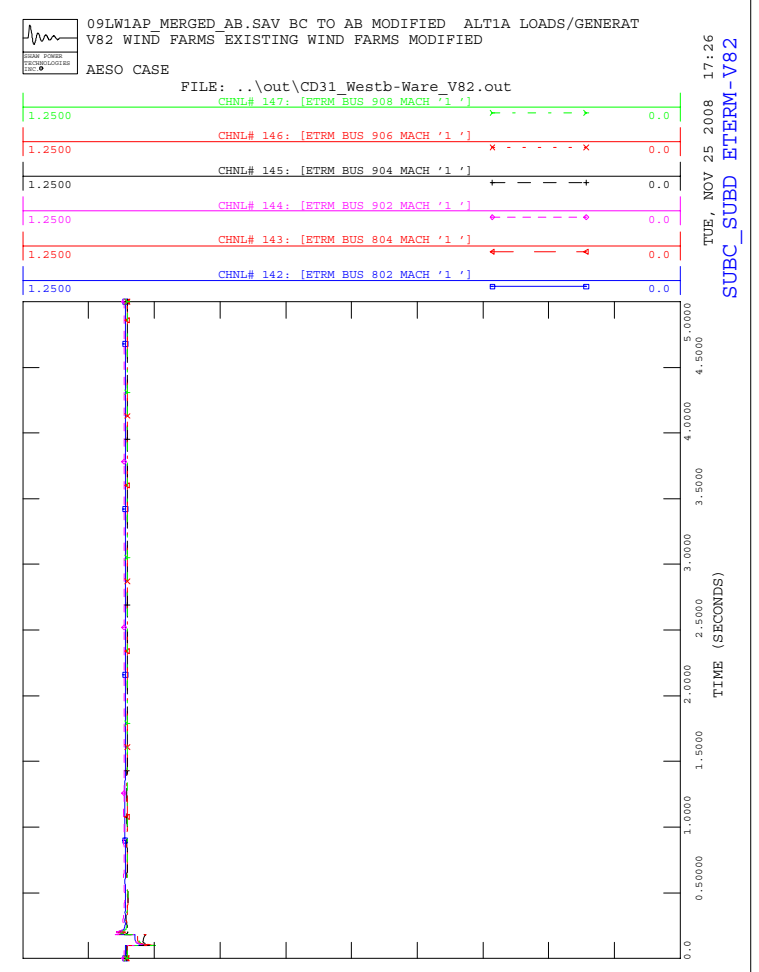
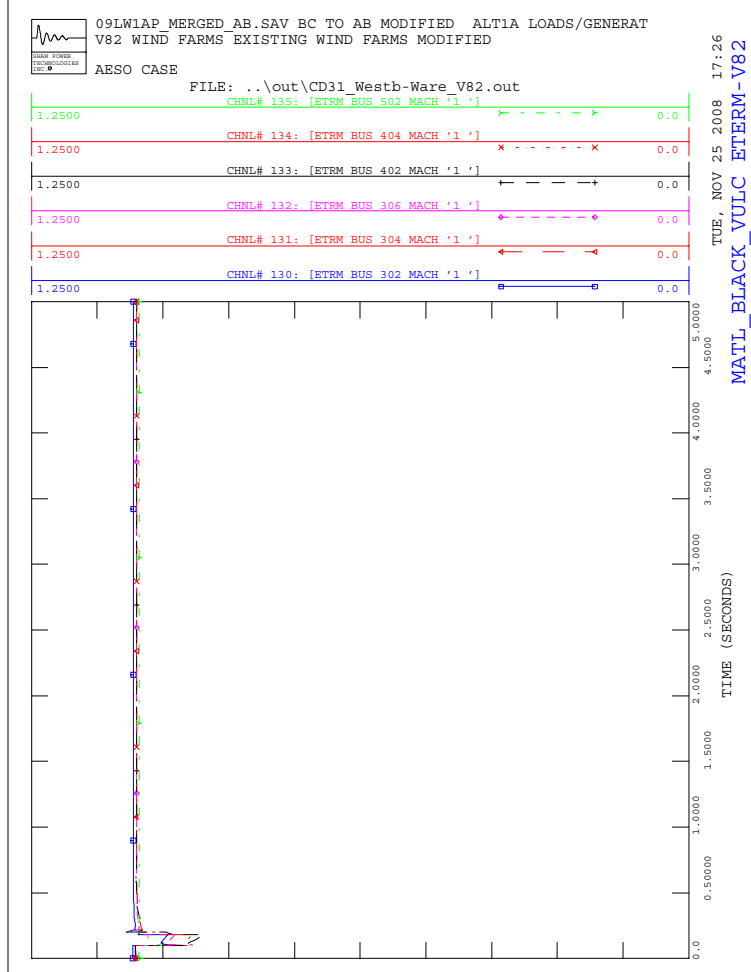
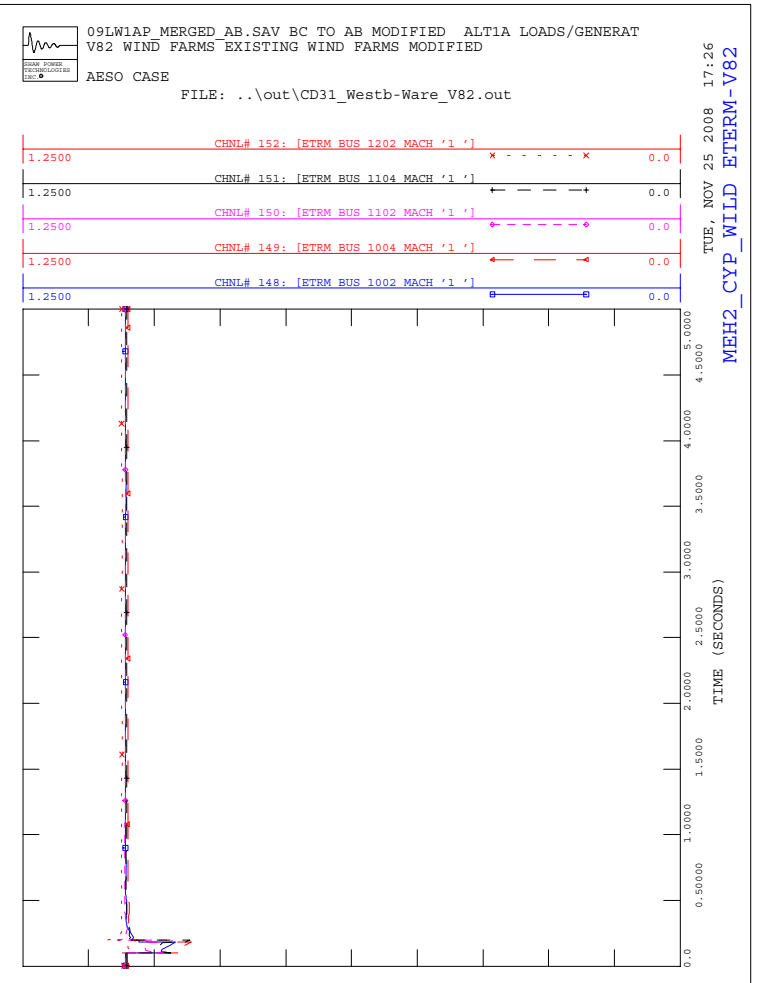
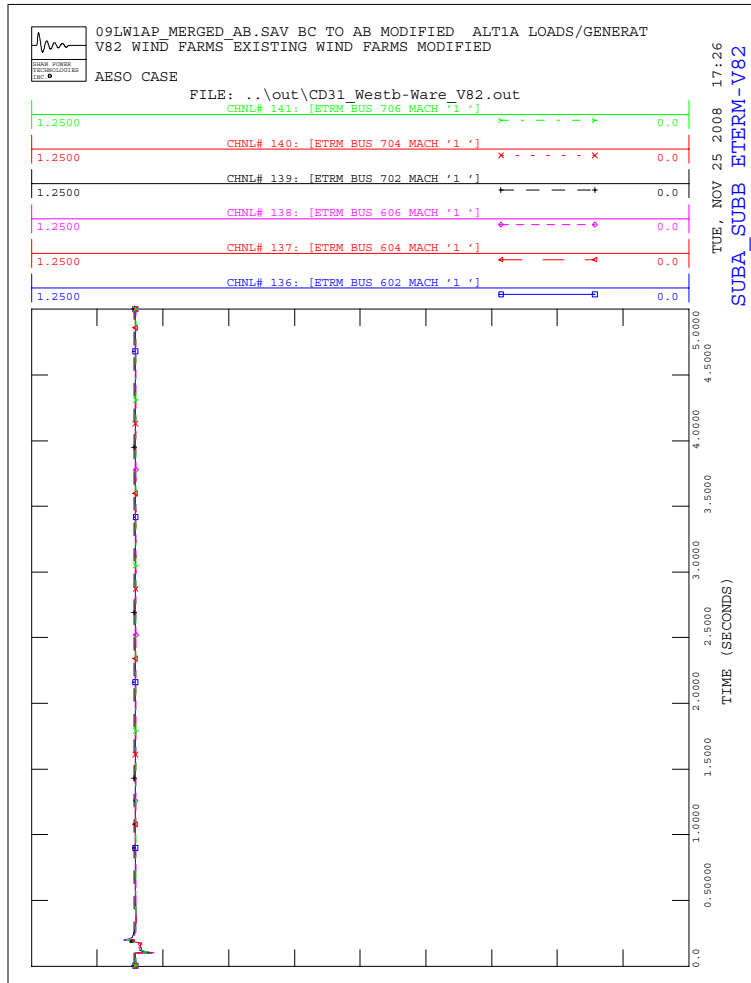
TUE, NOV 25 2008 17:26
SUBA_SUBD SPEED-V82

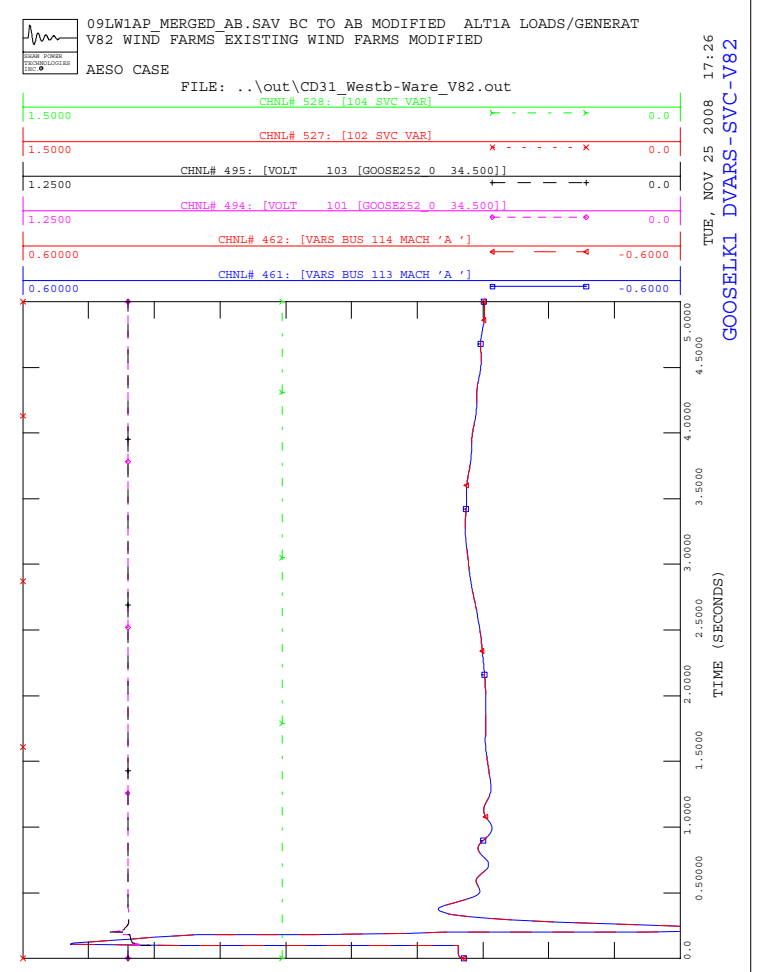
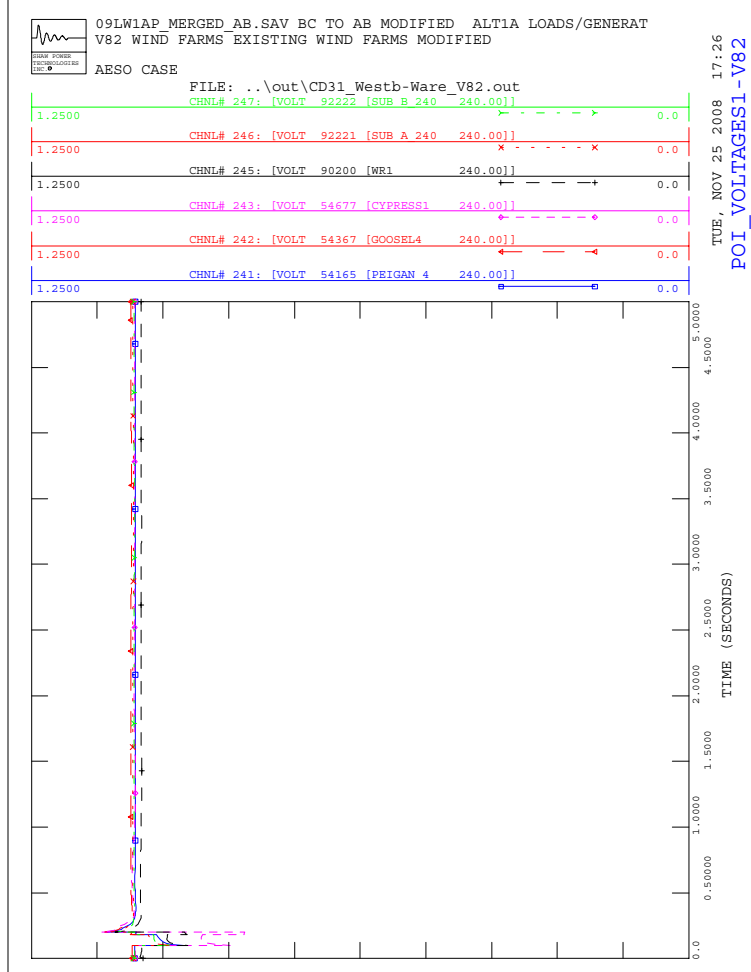
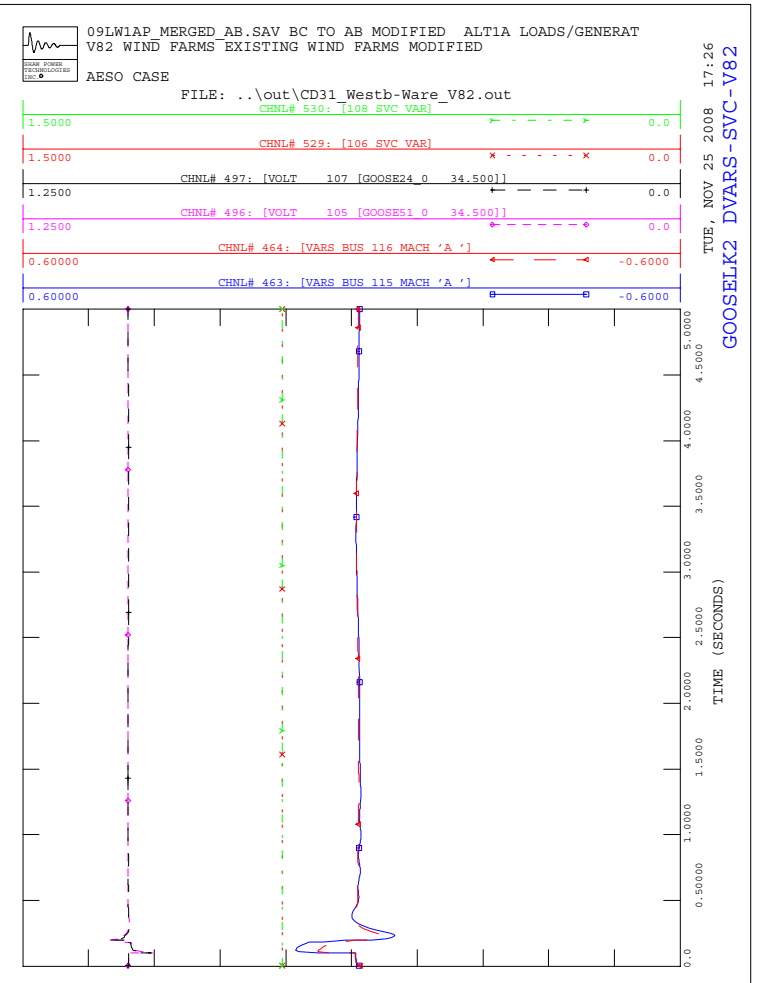
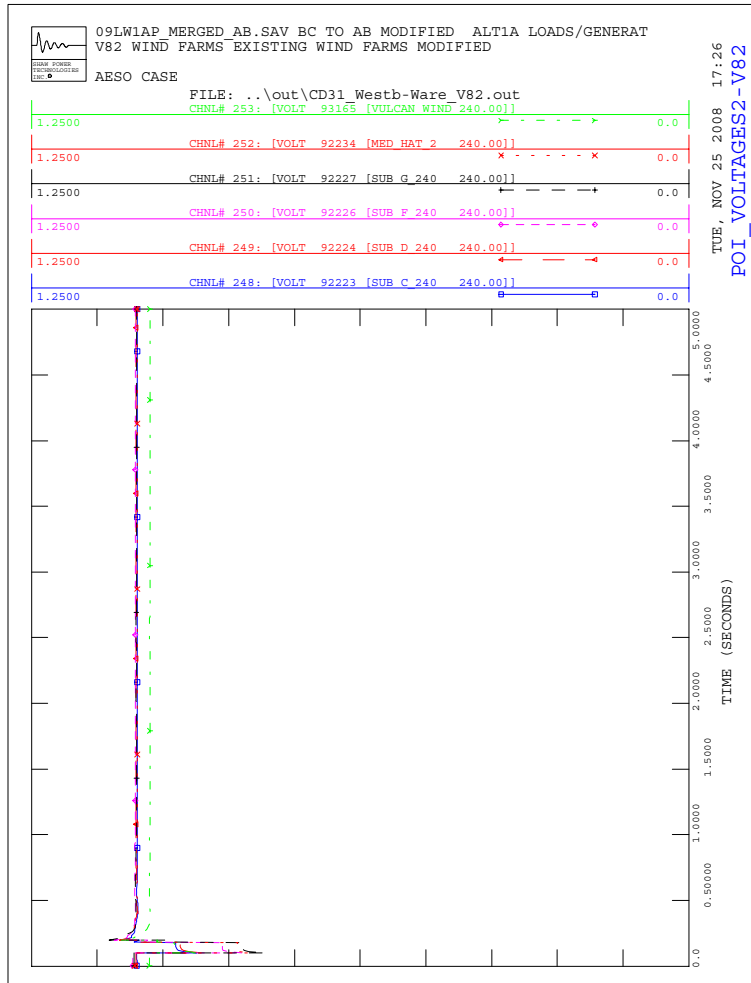
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

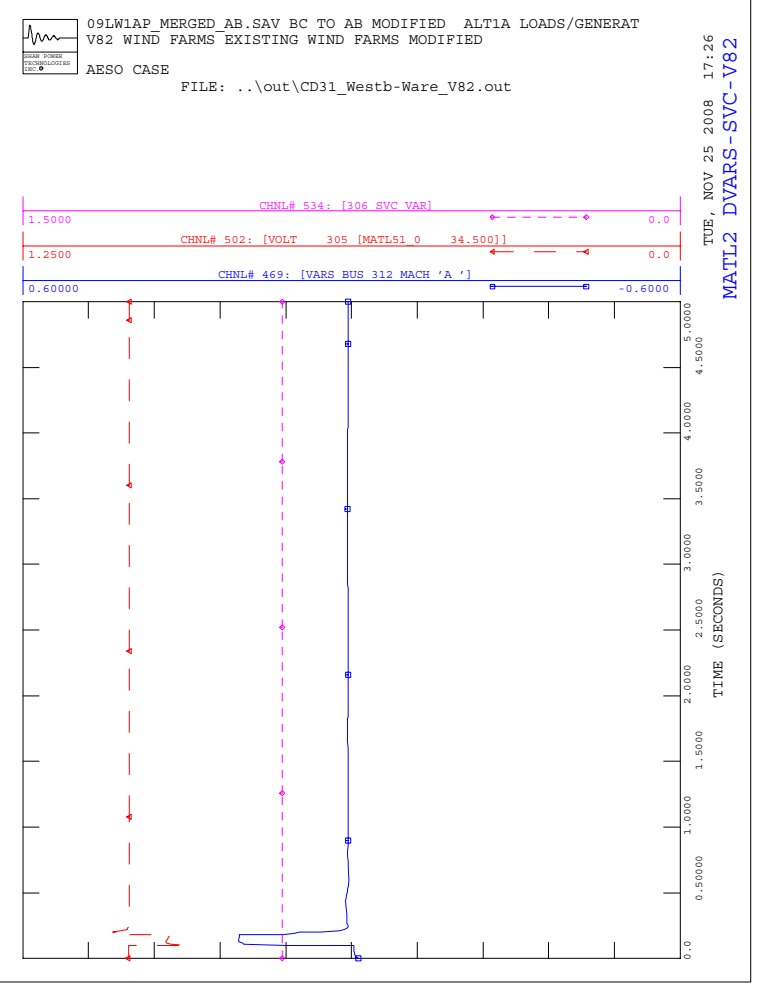
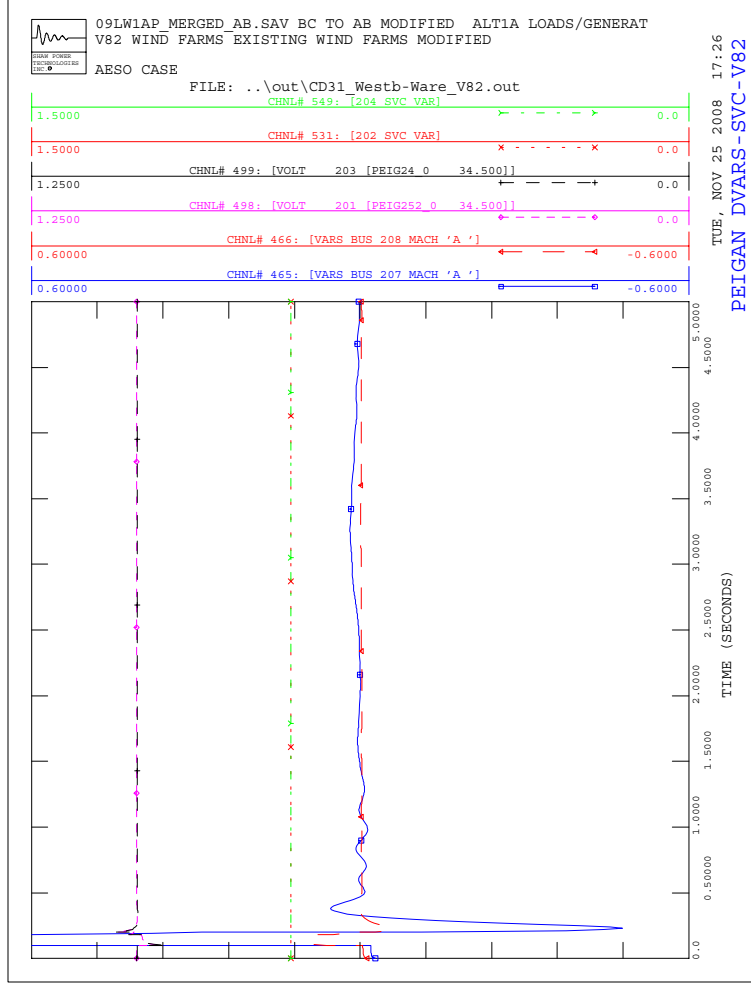
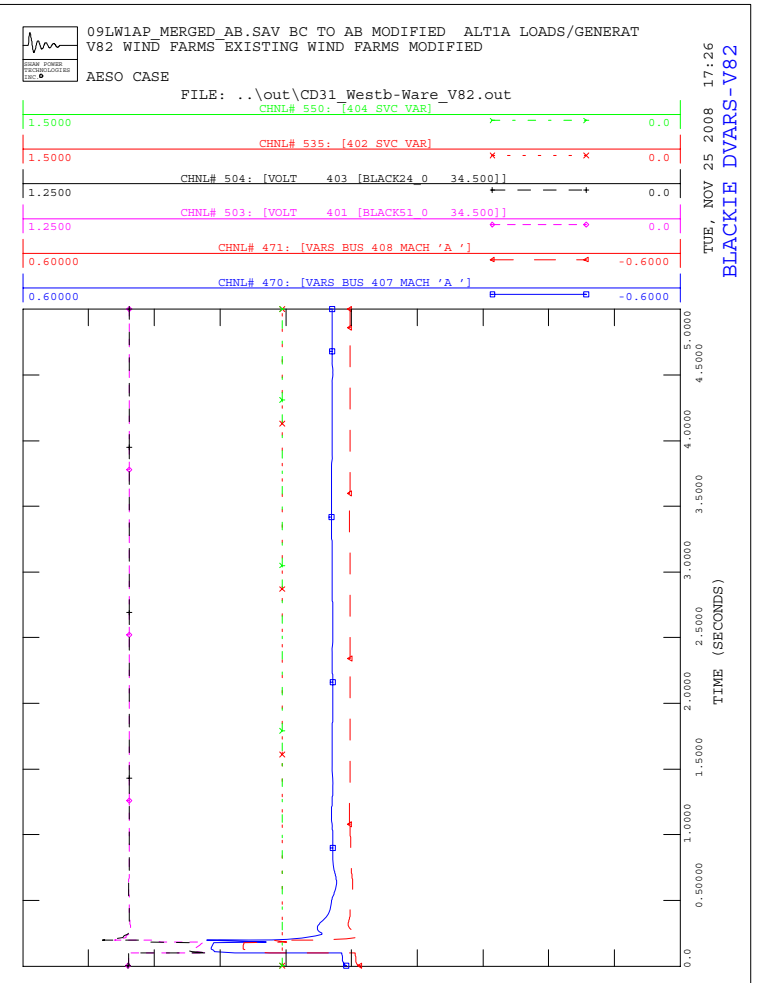
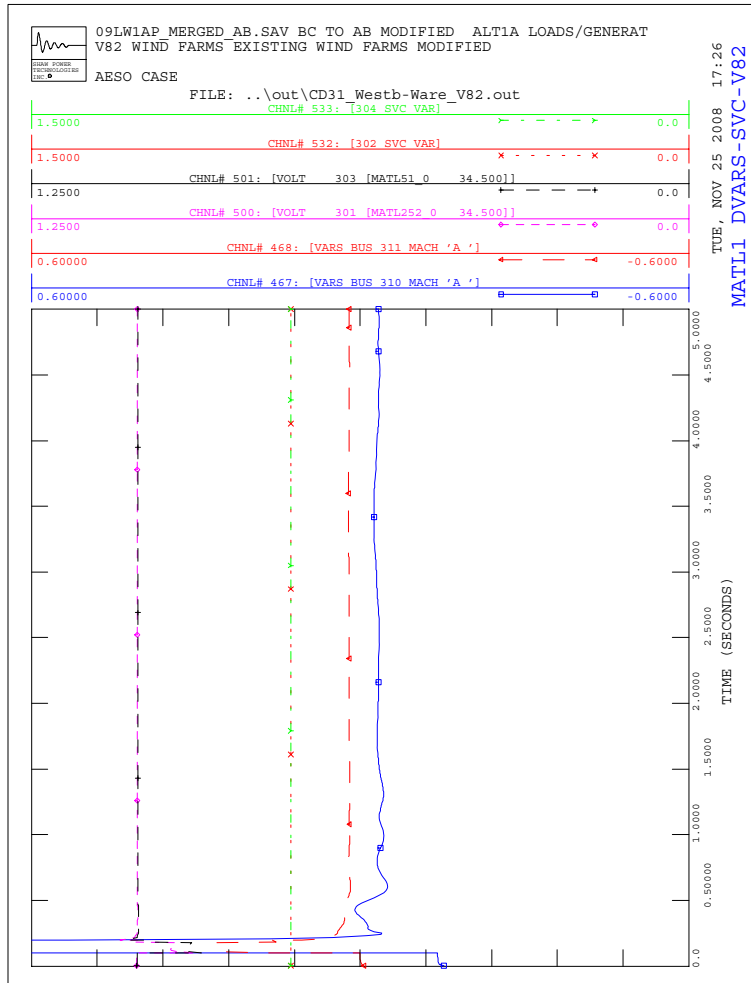
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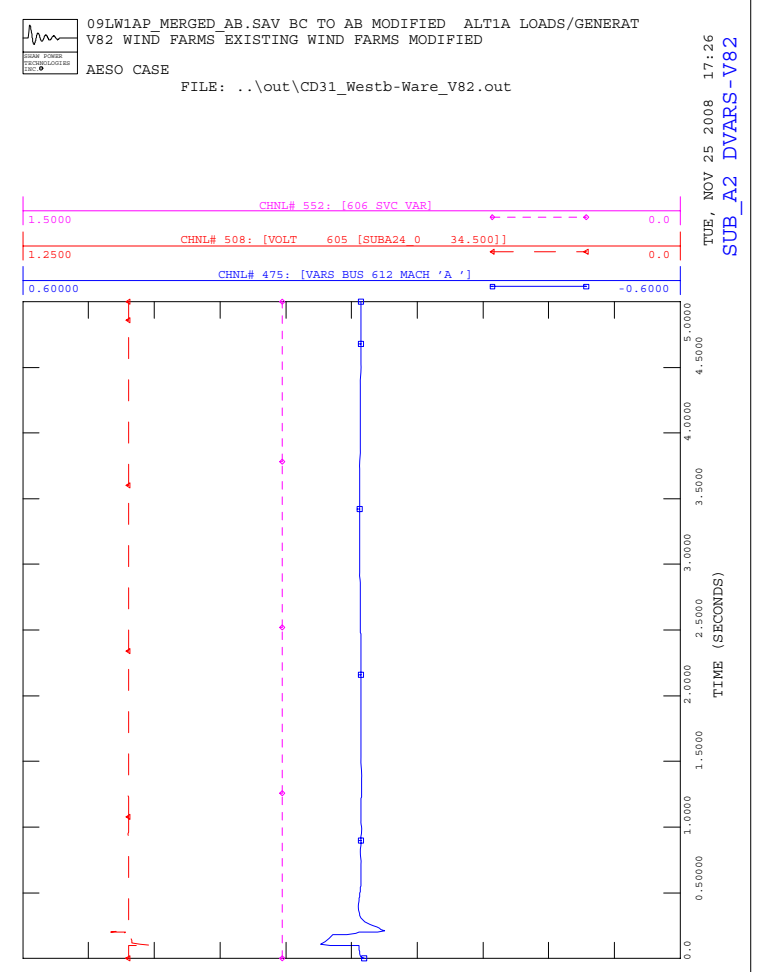
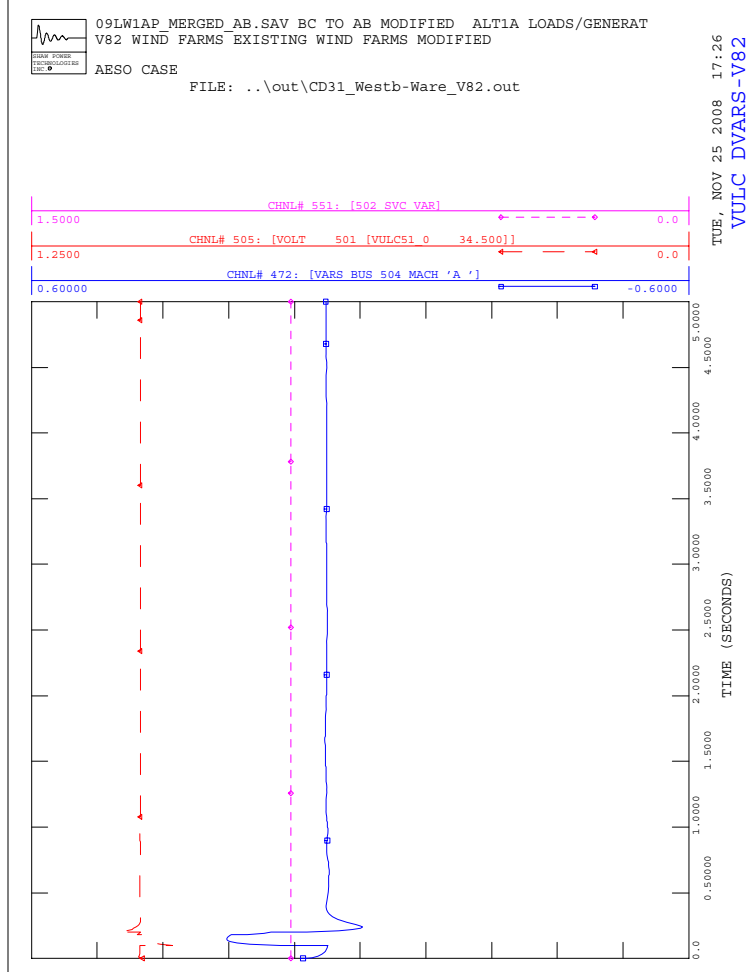
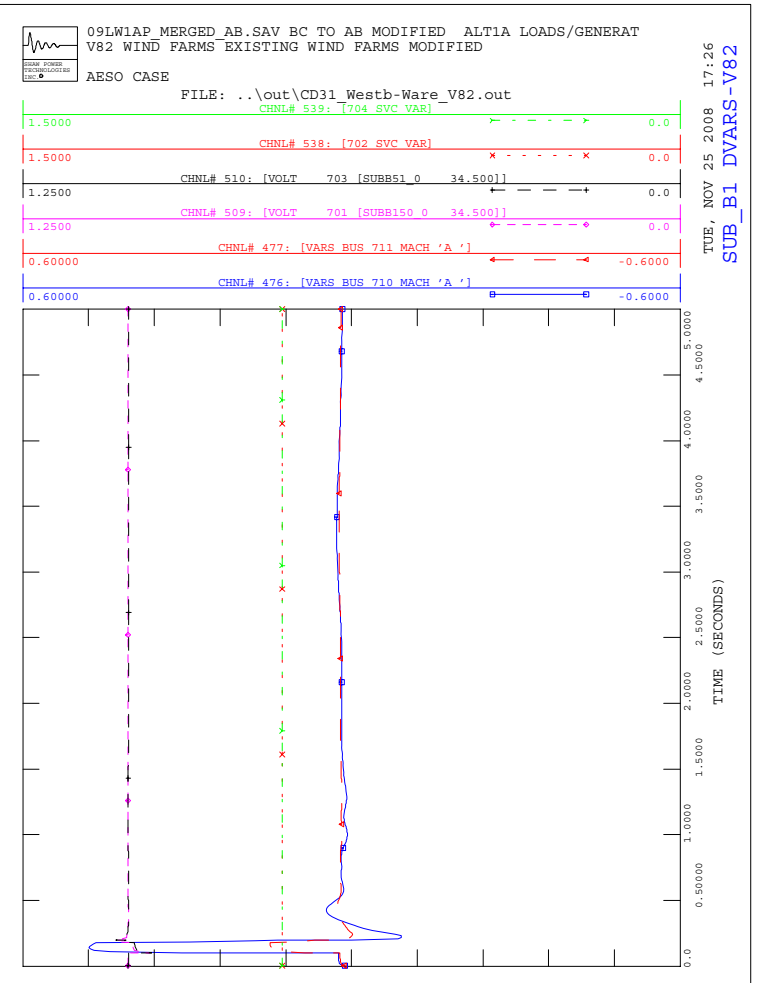
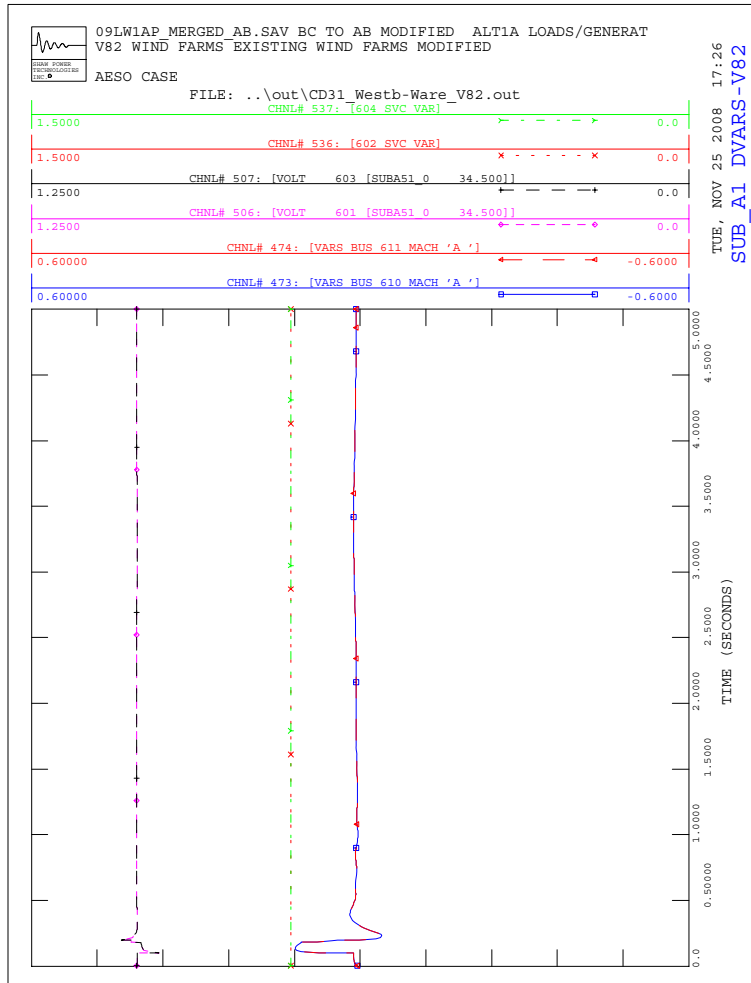


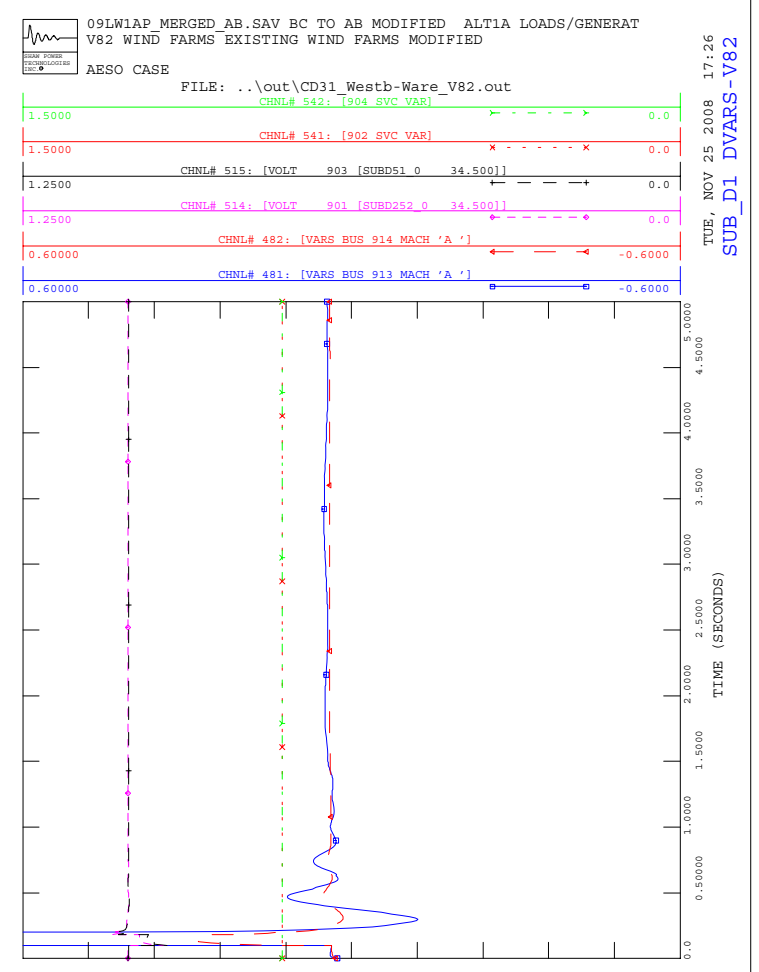
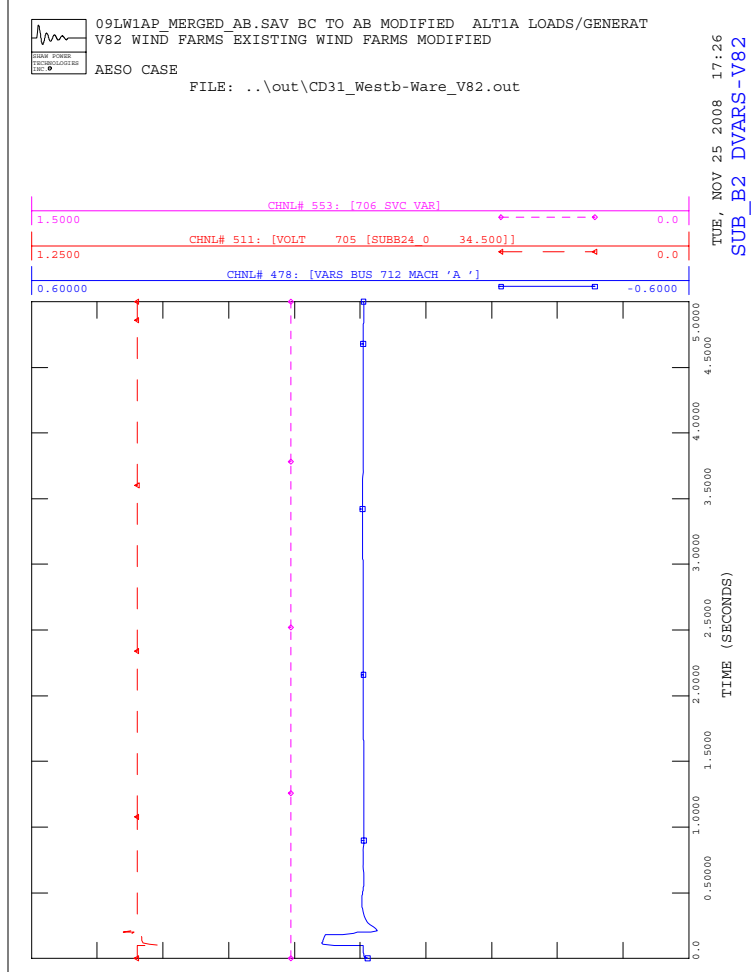
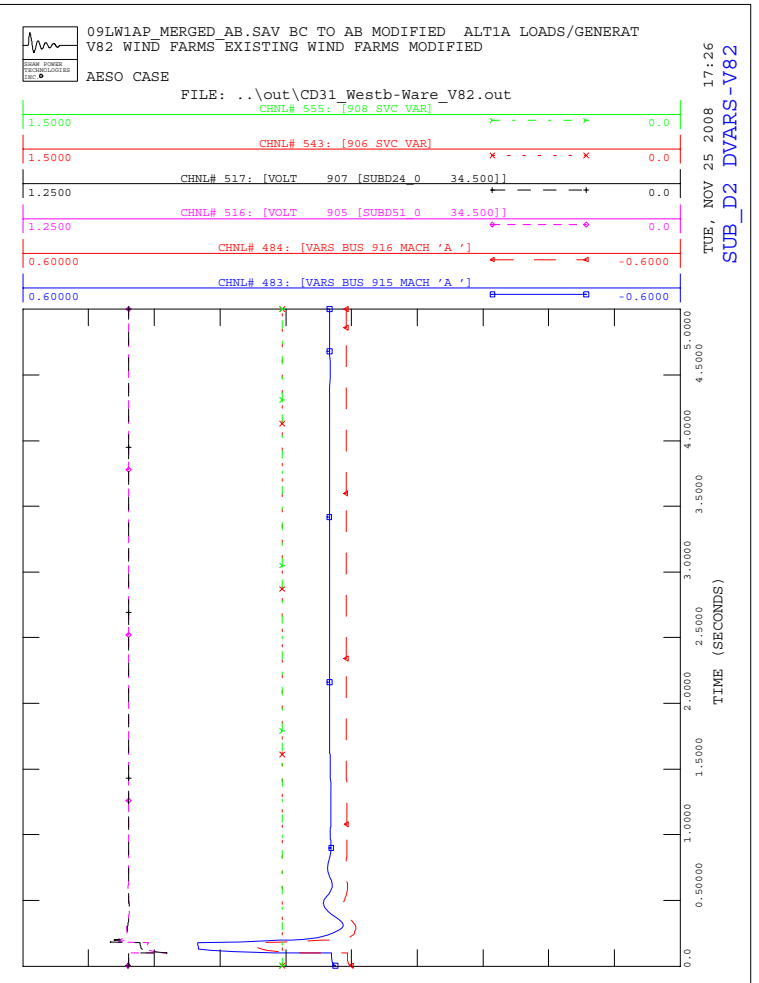
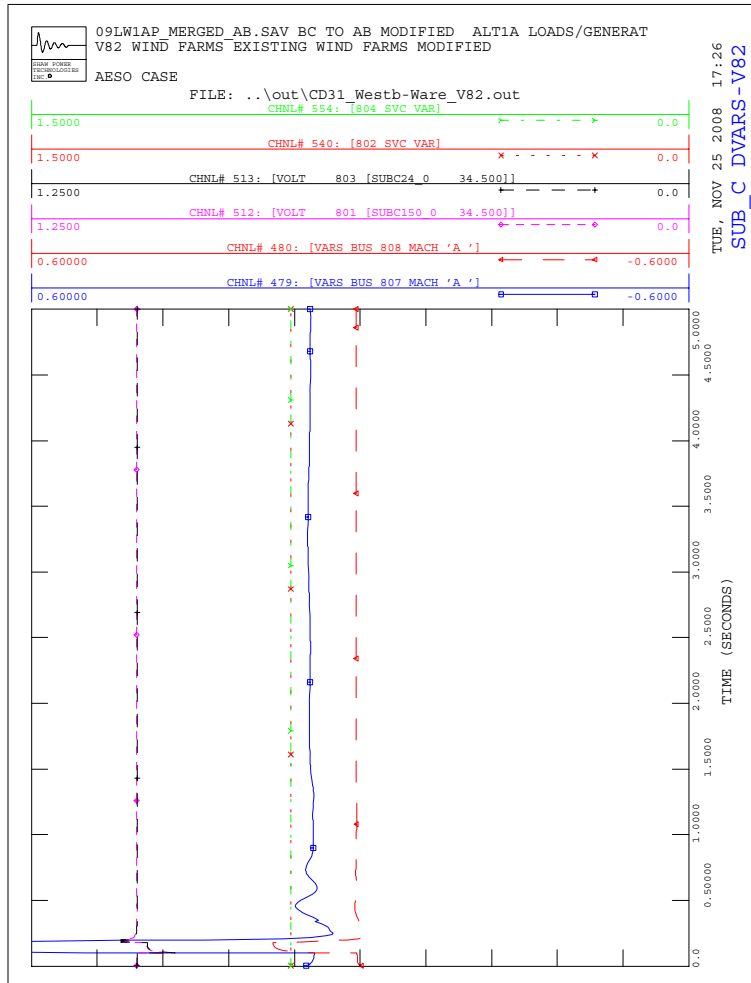
TUE, NOV 25 2008 17:26
MEH2_CYP_WILD SPEED-V82

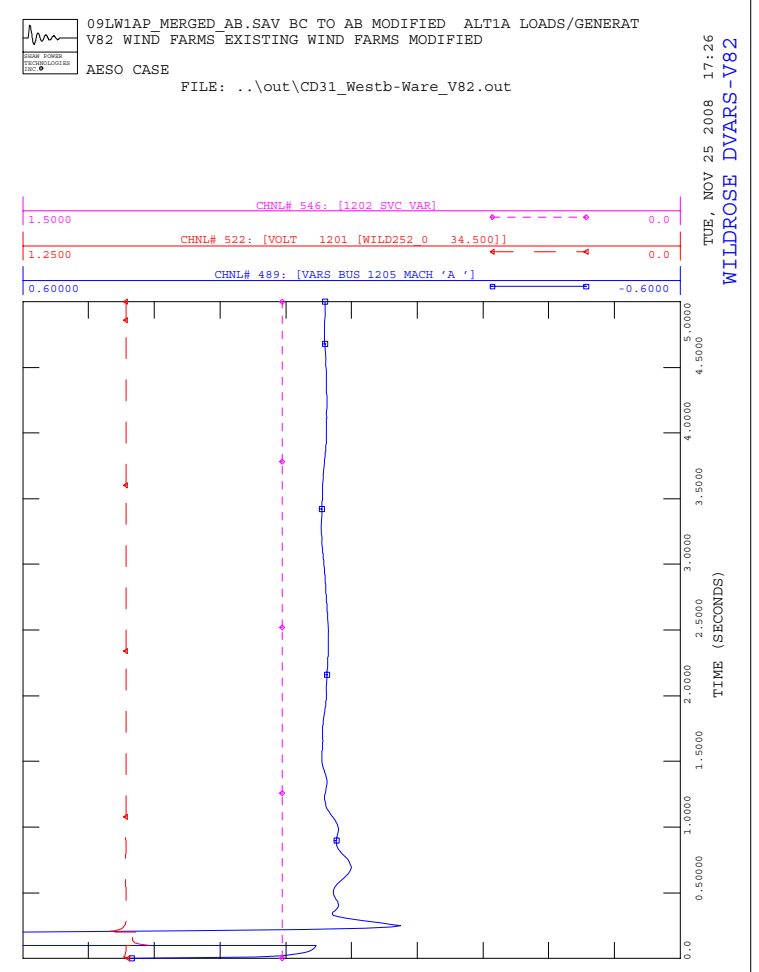
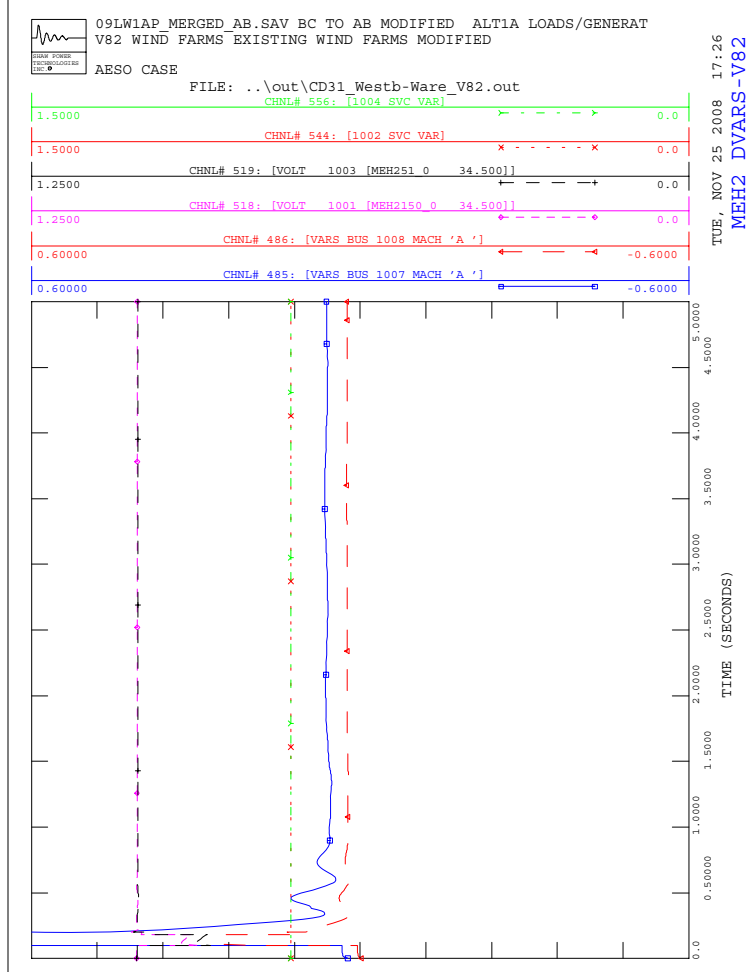
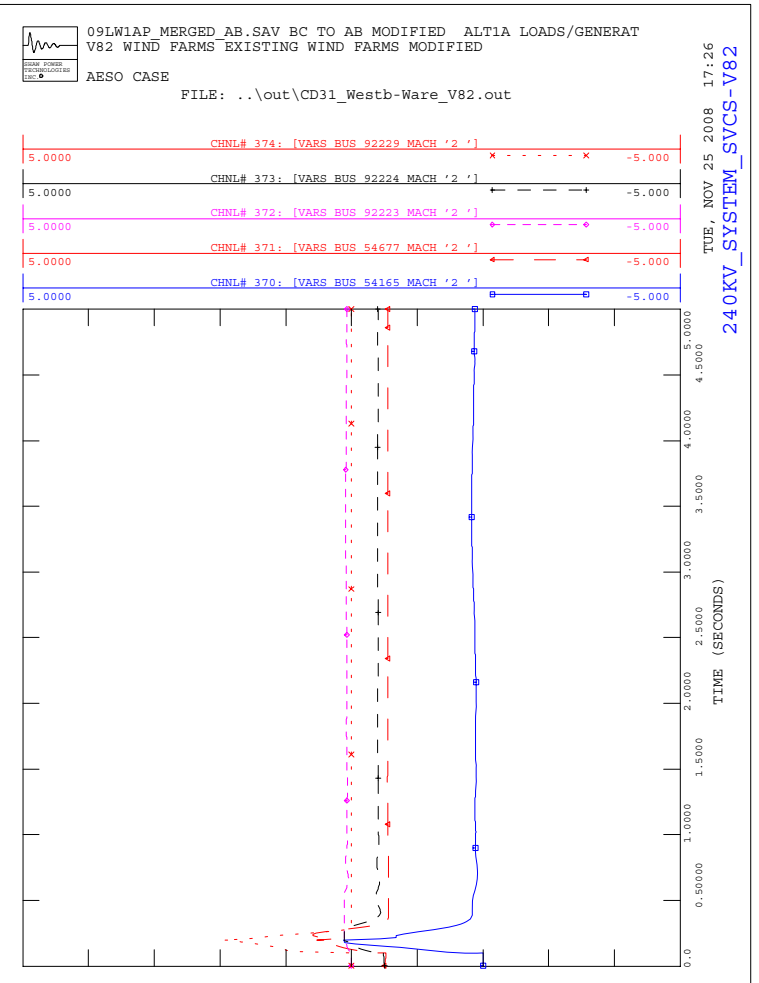
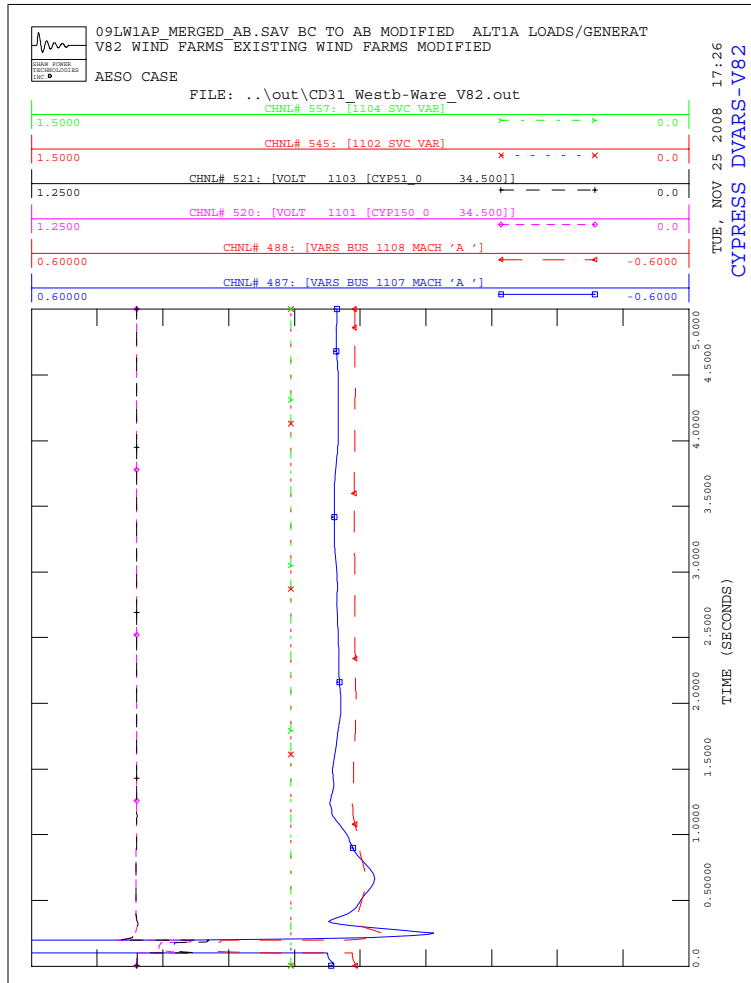












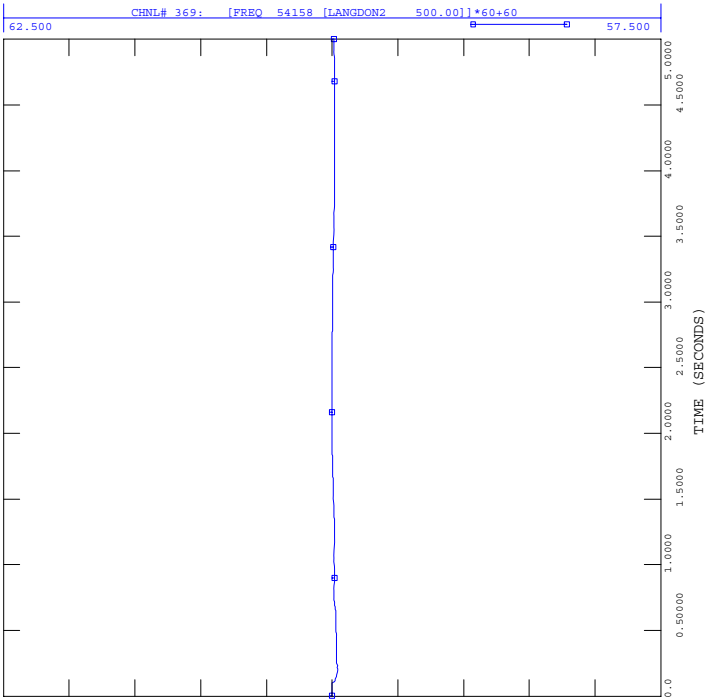


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out

TUE, NOV 25 2008 17:26
LANGDON_FRQ-V82

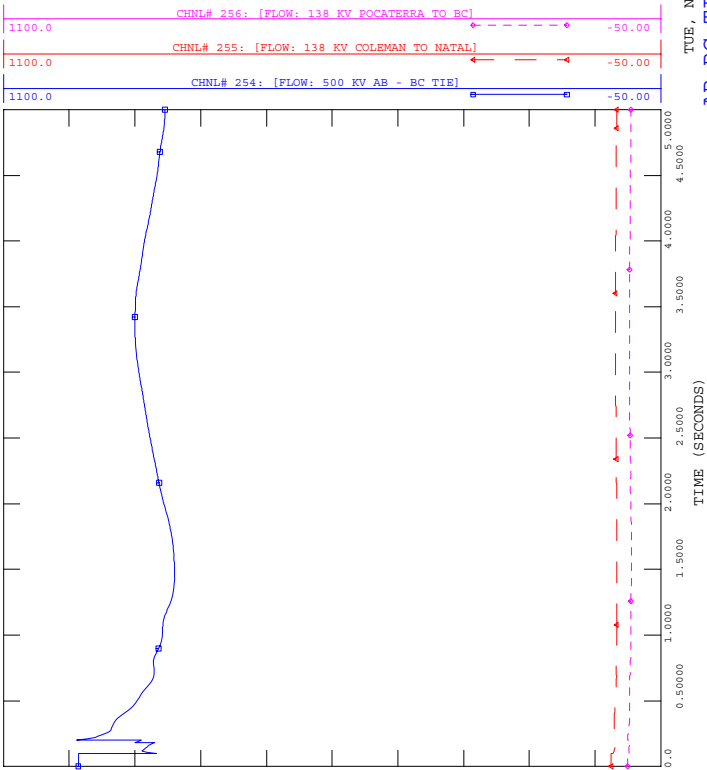


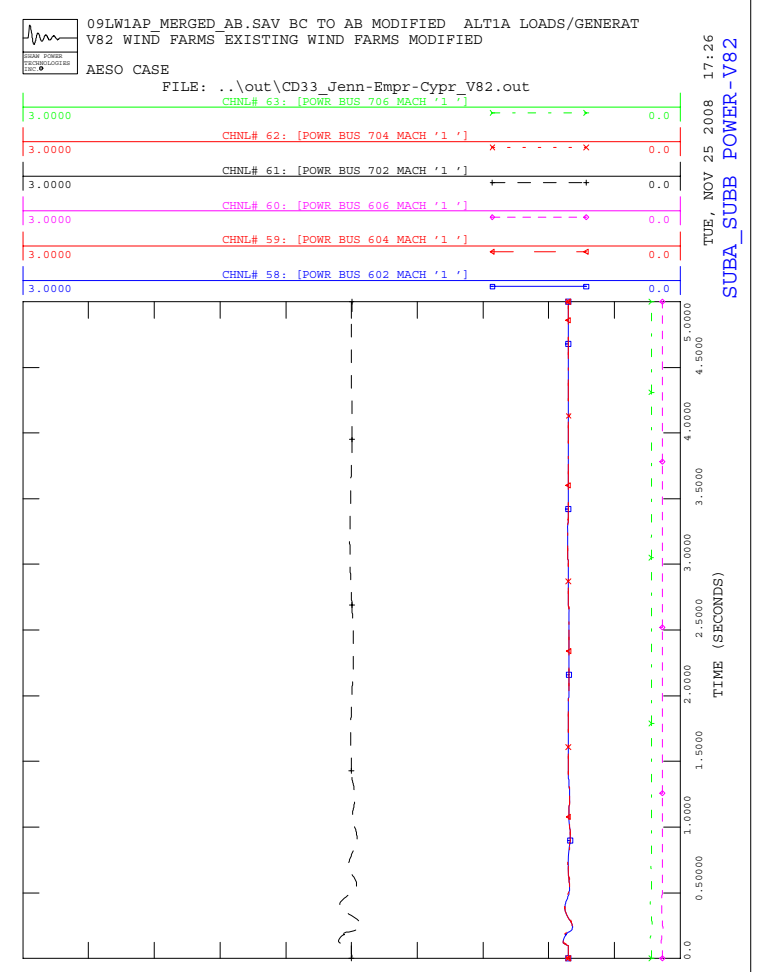
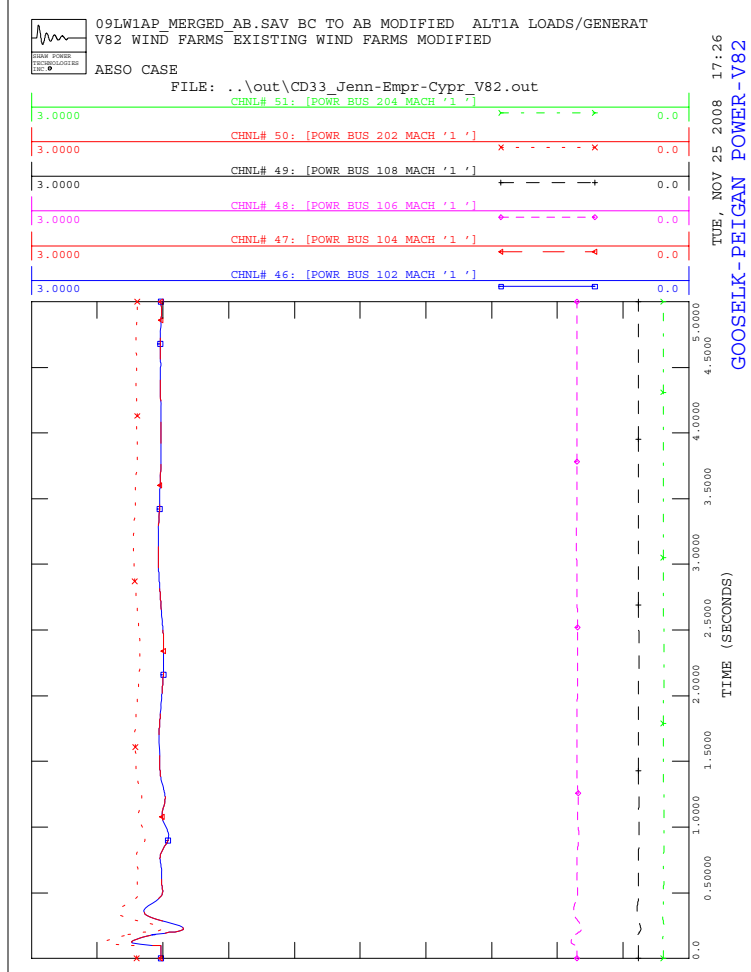
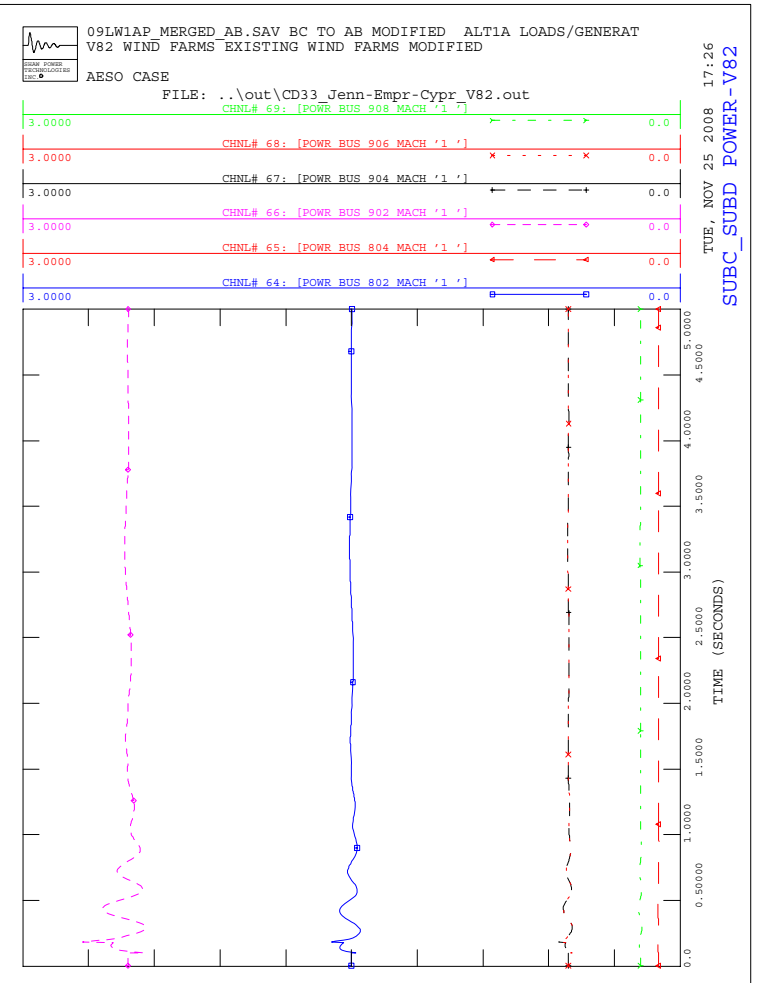
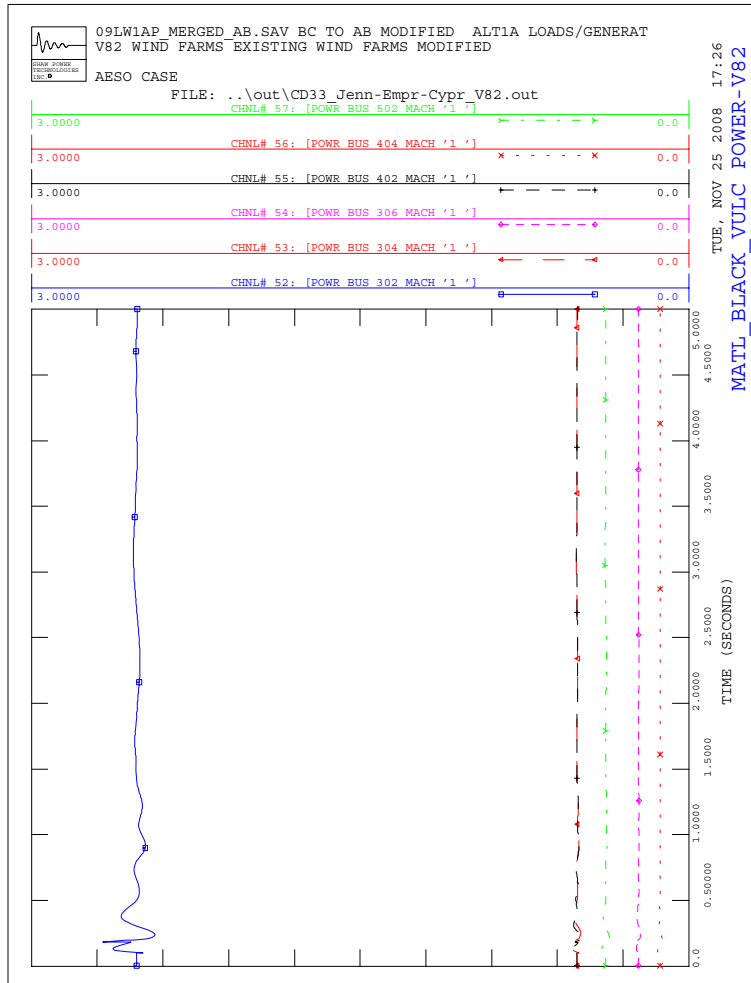
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD31_Westb-Ware_V82.out

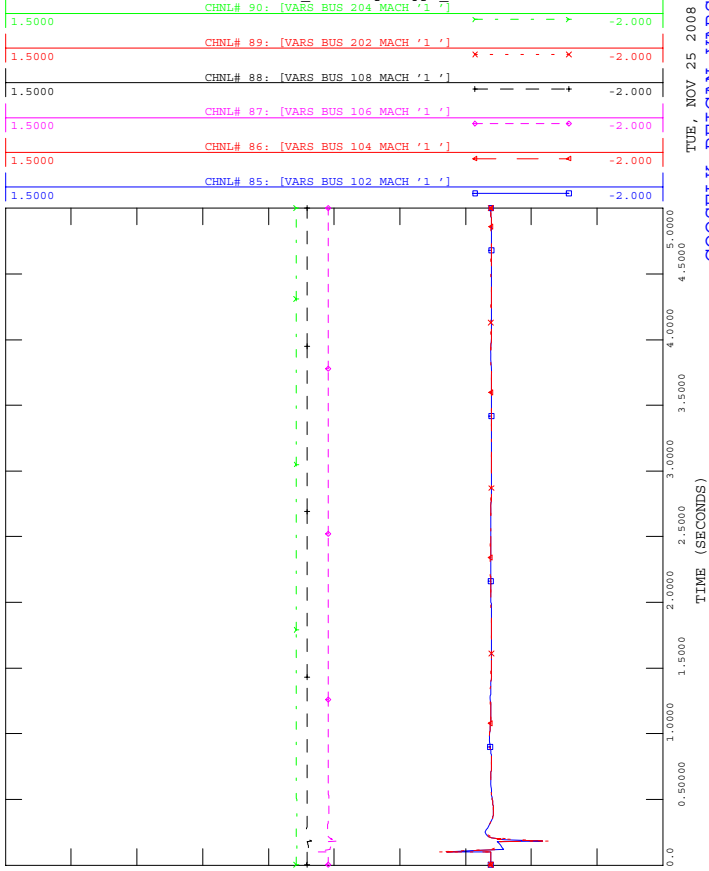
TUE, NOV 25 2008 17:26
AB_BC_TIE_FLOWS-V82





09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

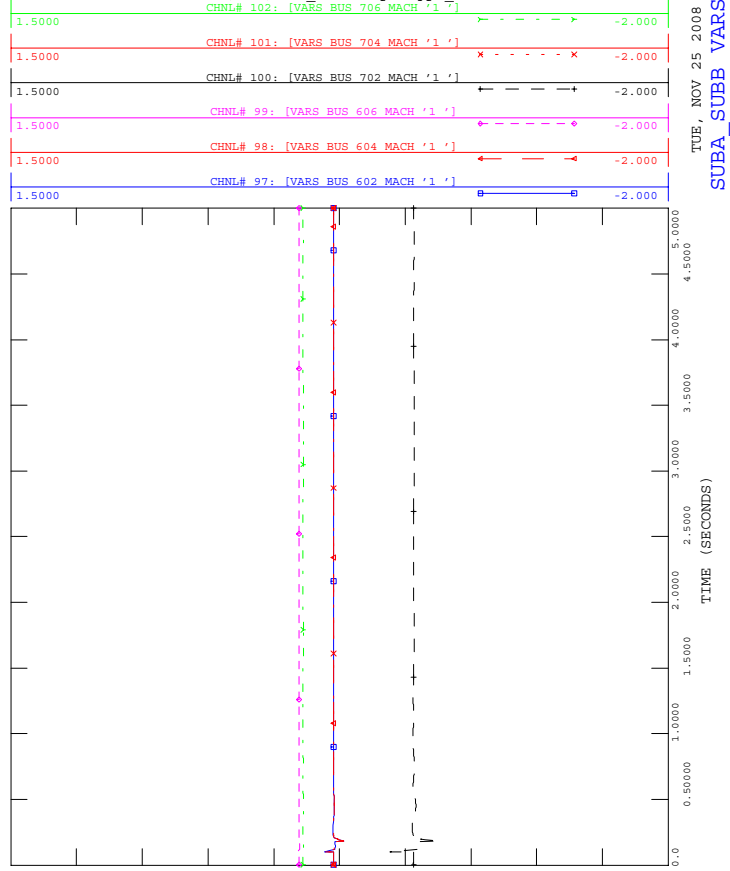
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TUE, NOV 25 2008 17:26
GOOSELK-PEIGAN VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

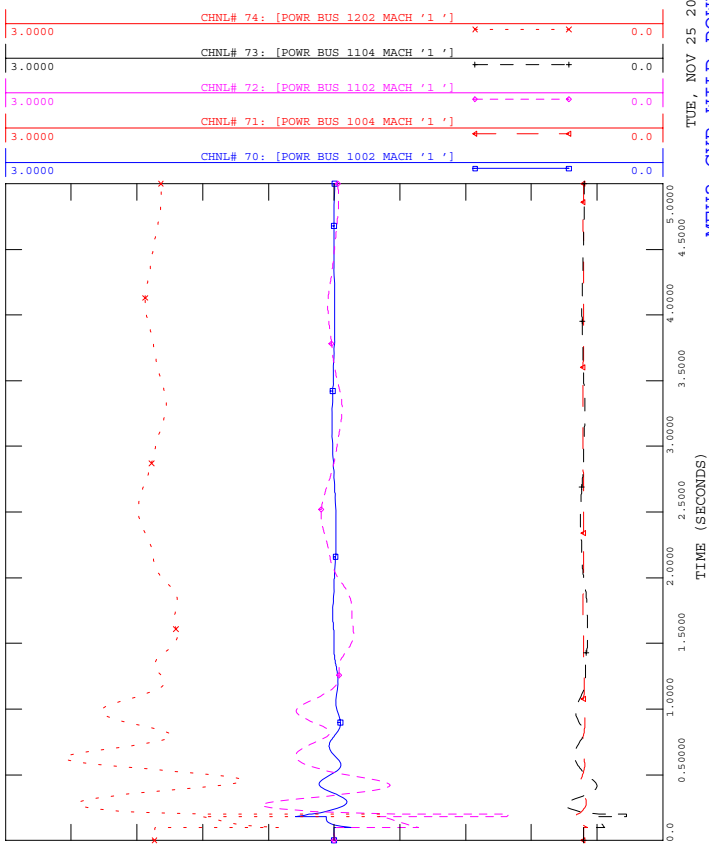
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TUE, NOV 25 2008 17:26
SUBA_SUBB VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

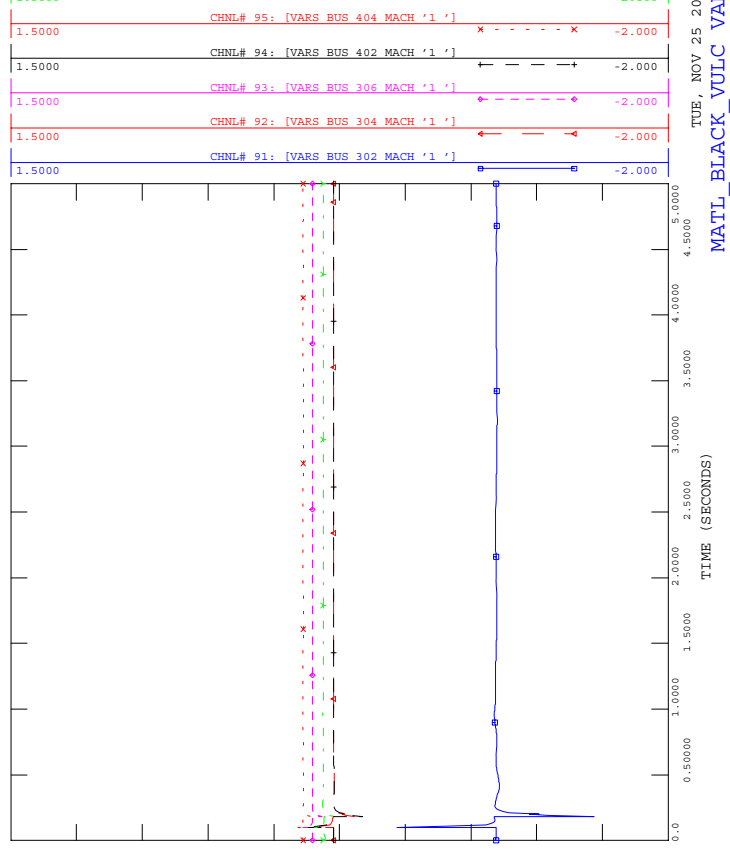
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TUE, NOV 25 2008 17:26
MEH2_CYP_WILD_POWER-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

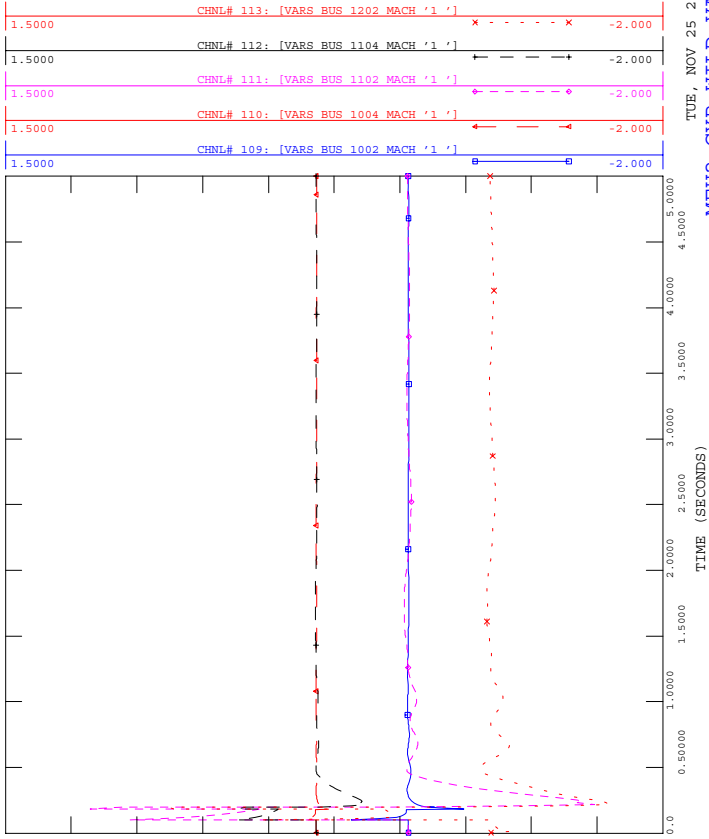
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MATL_BLACK_VULC VARS-V82

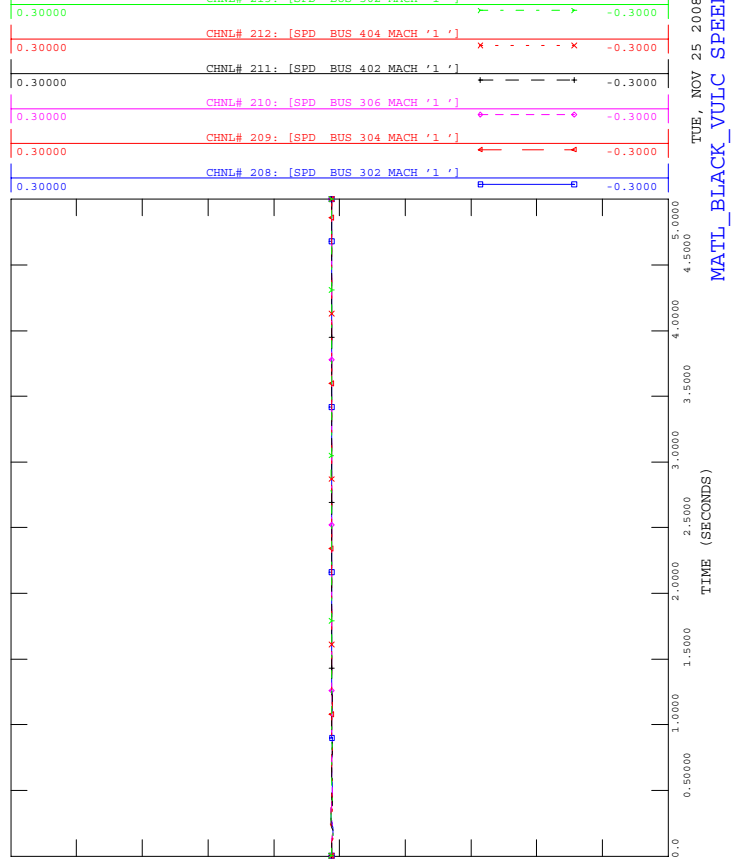
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

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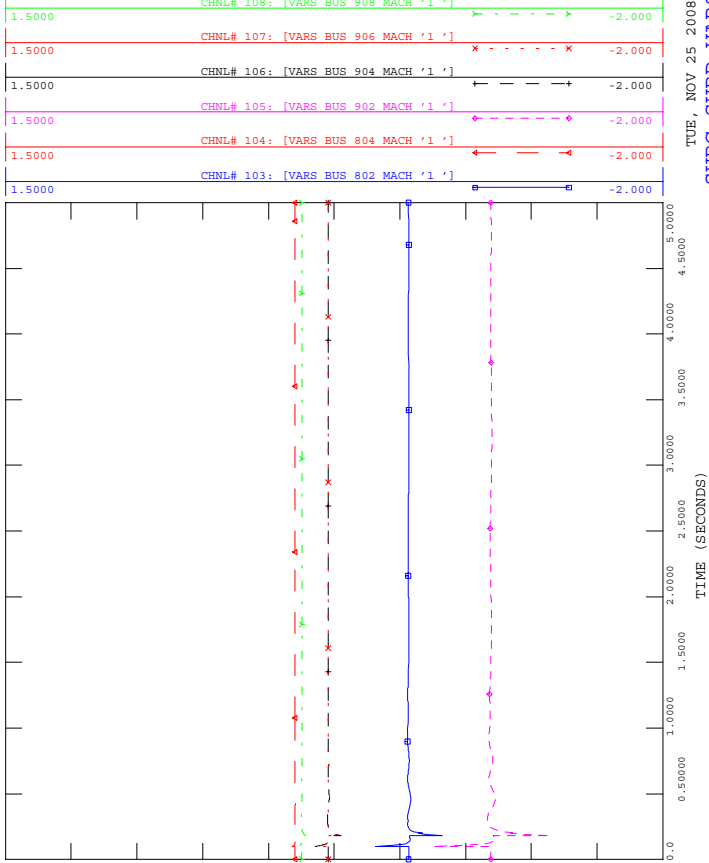
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ABSO CASE

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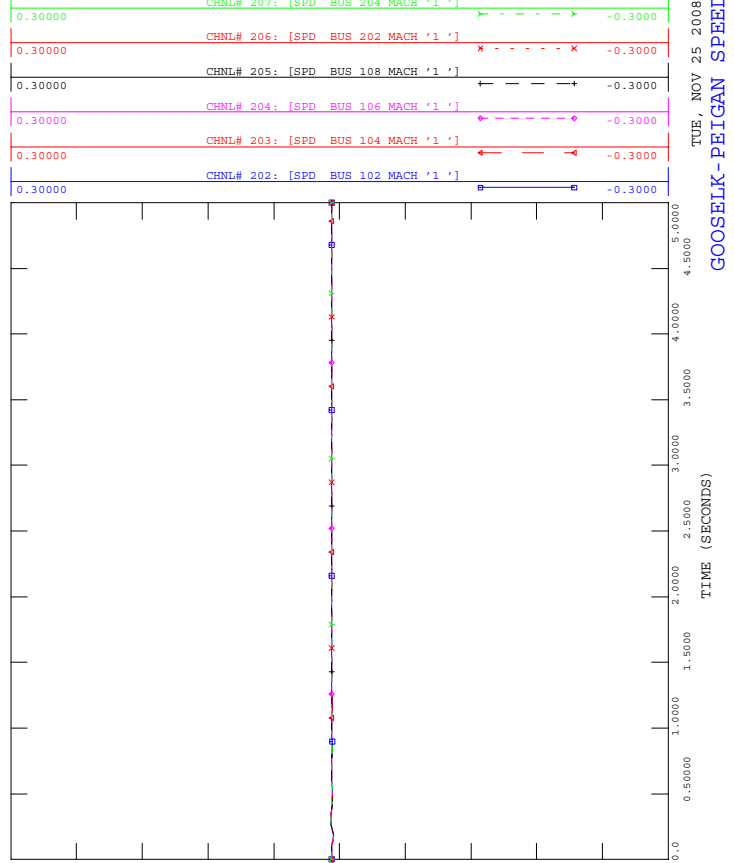
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

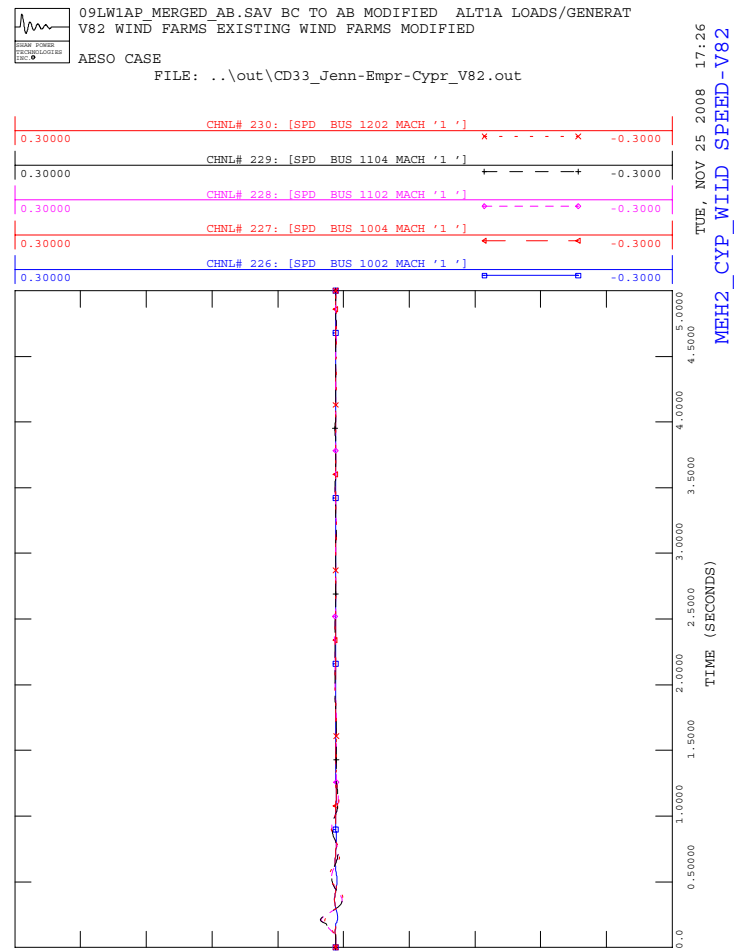
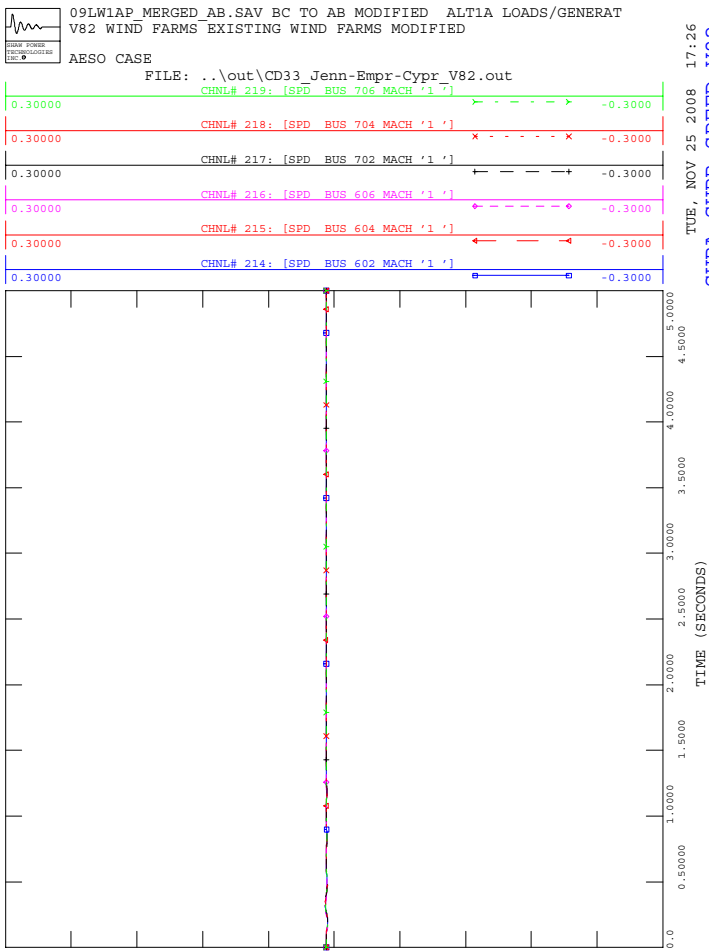
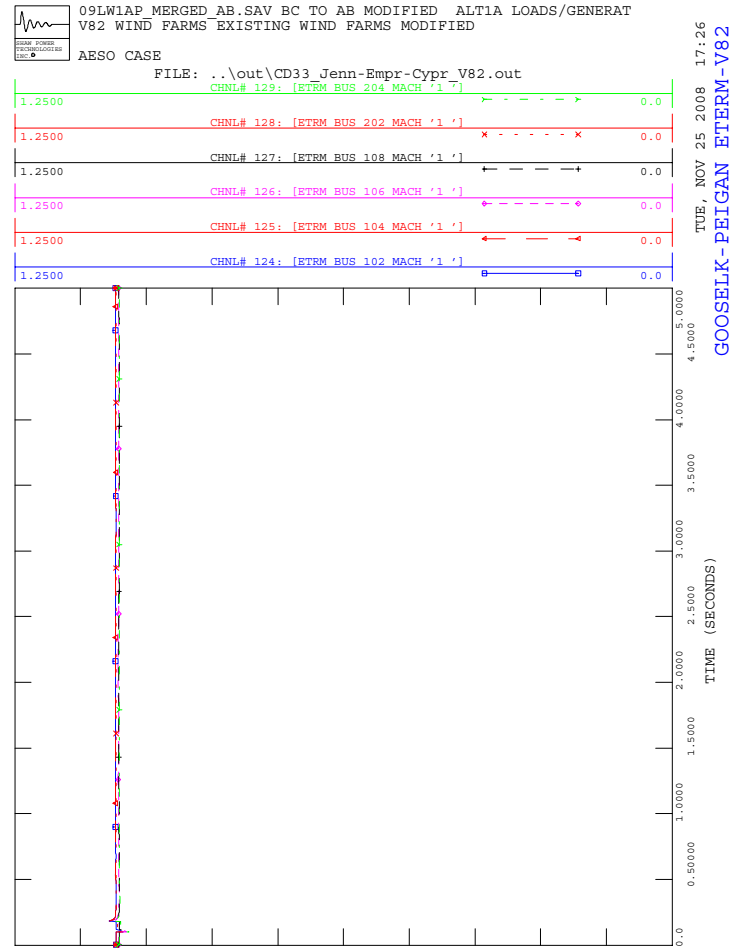
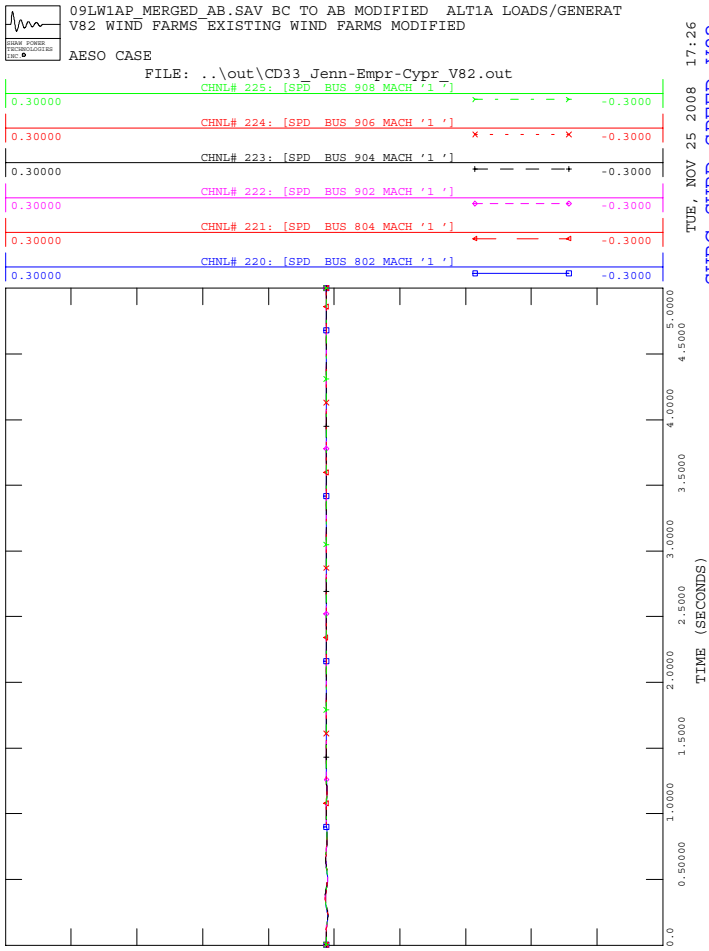
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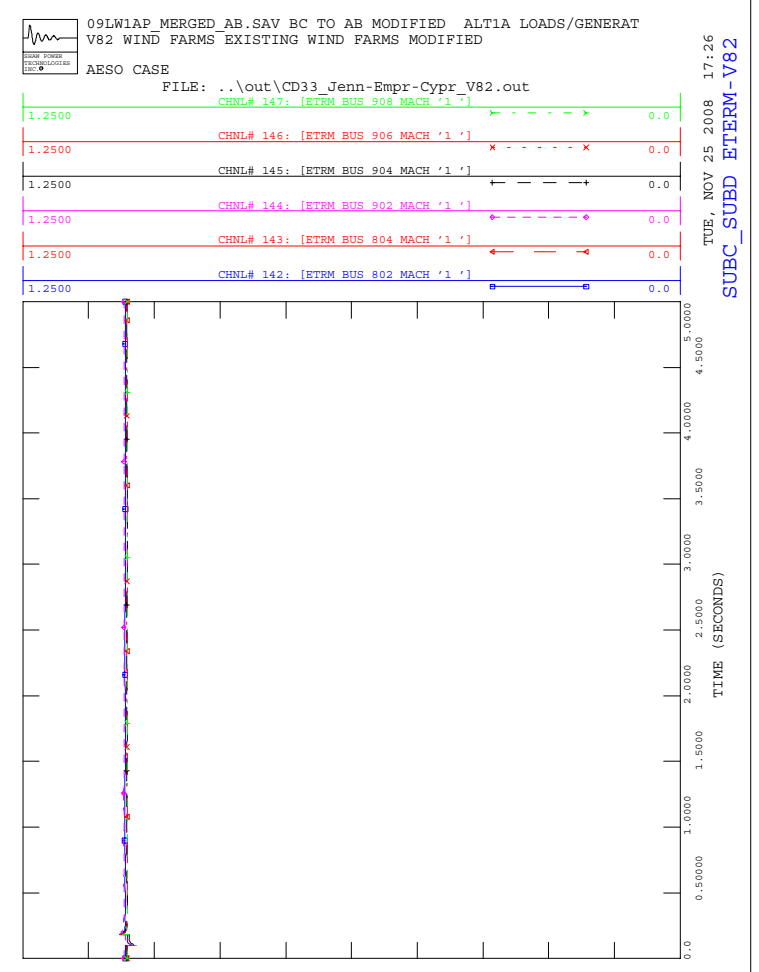
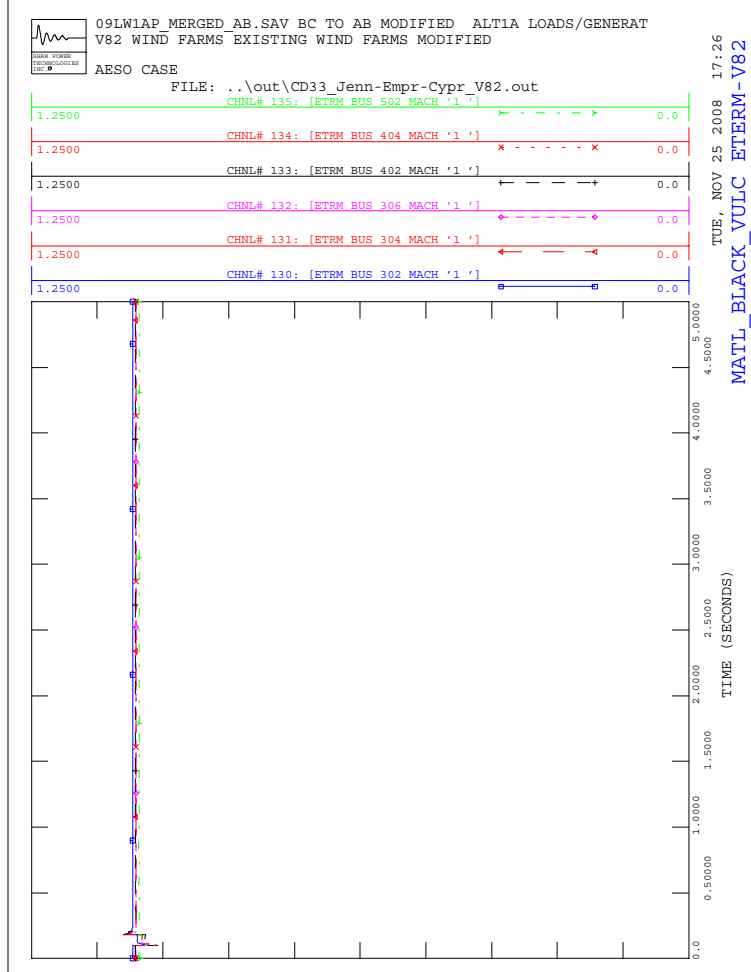
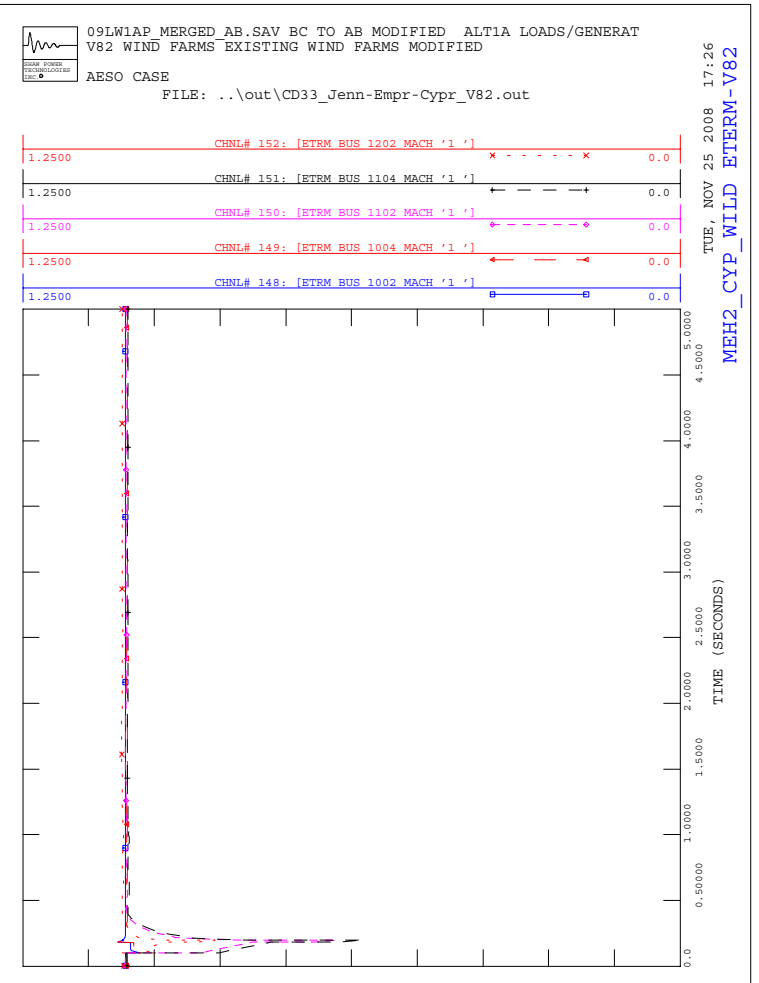
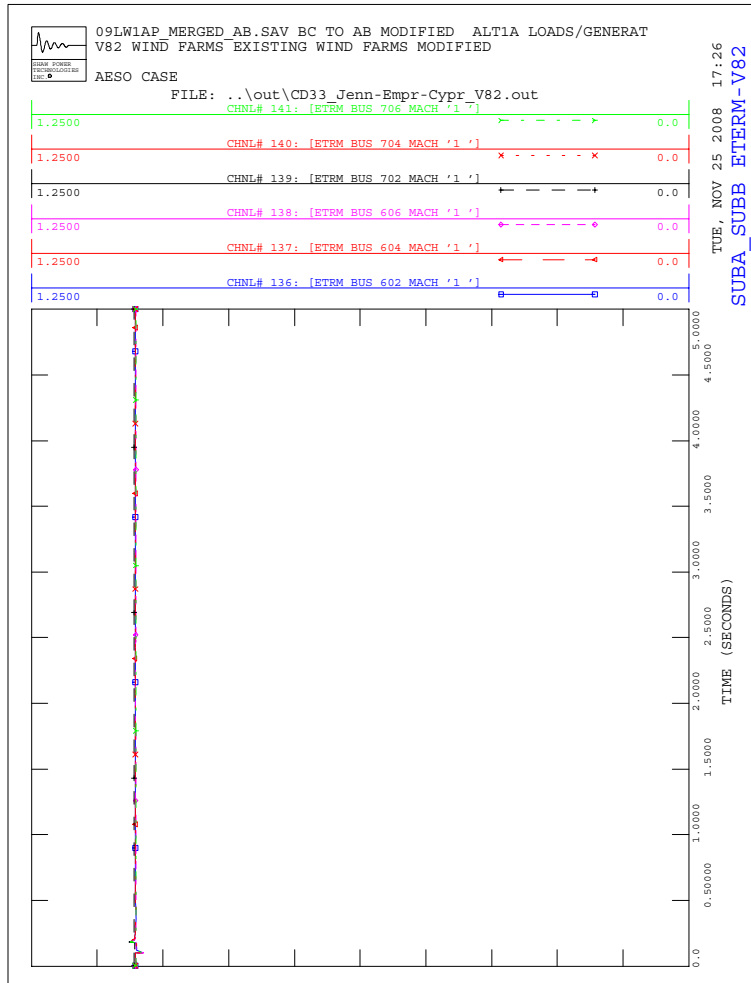


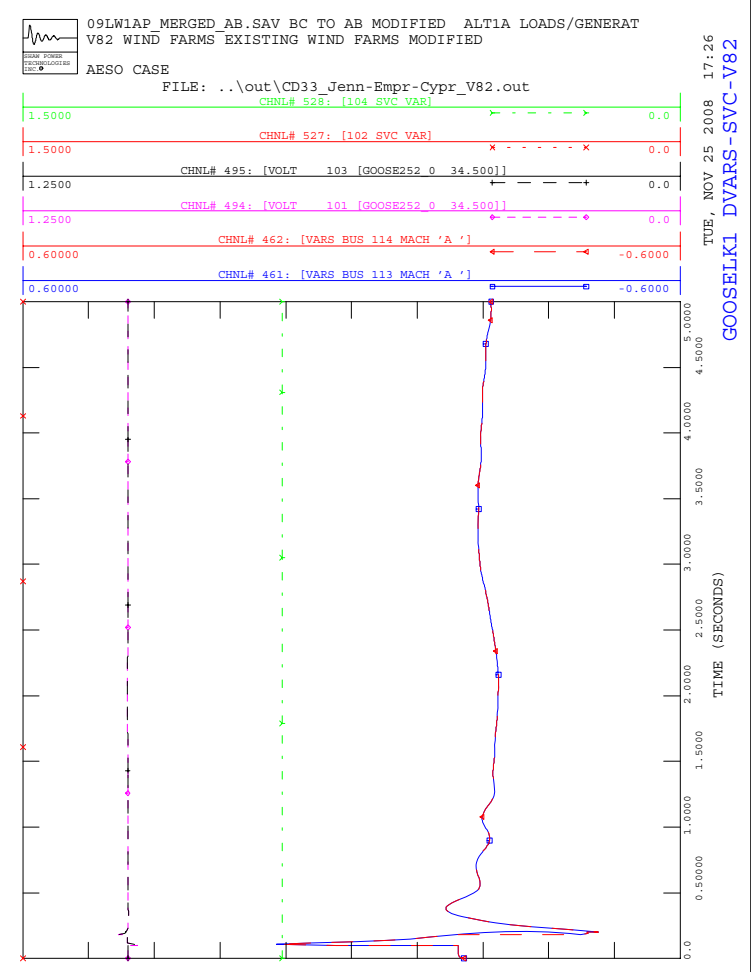
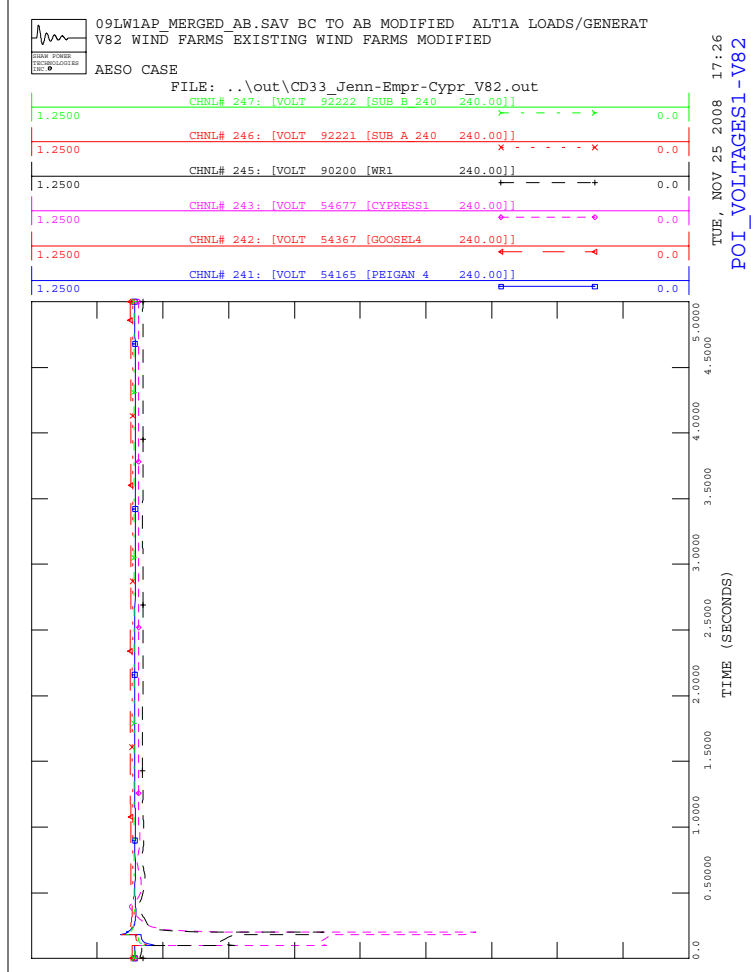
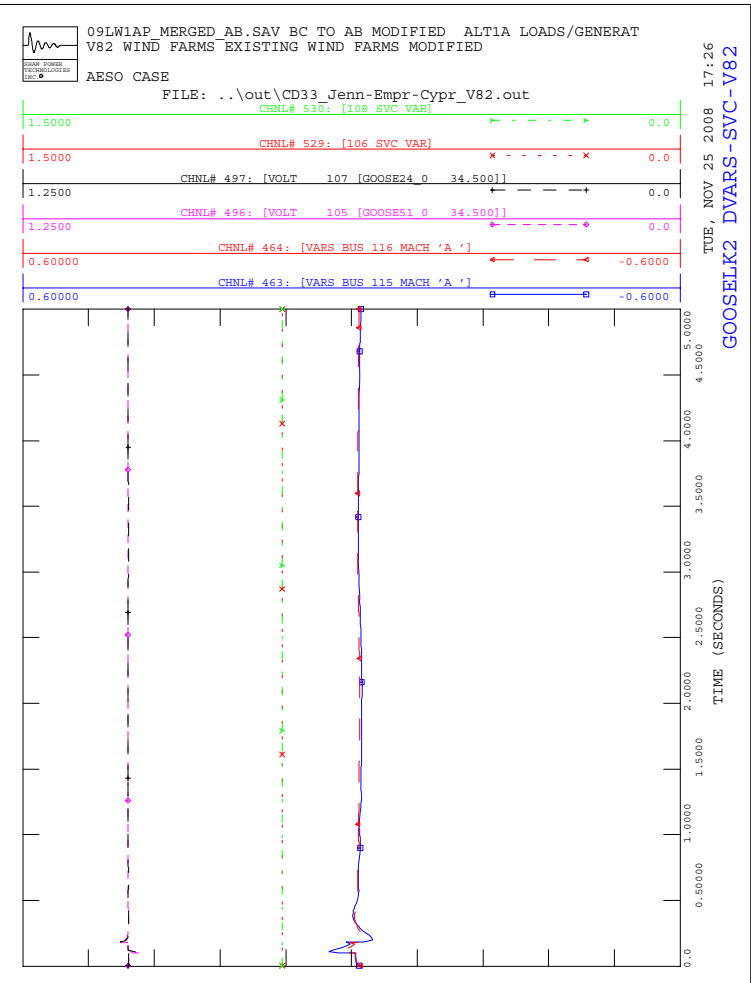
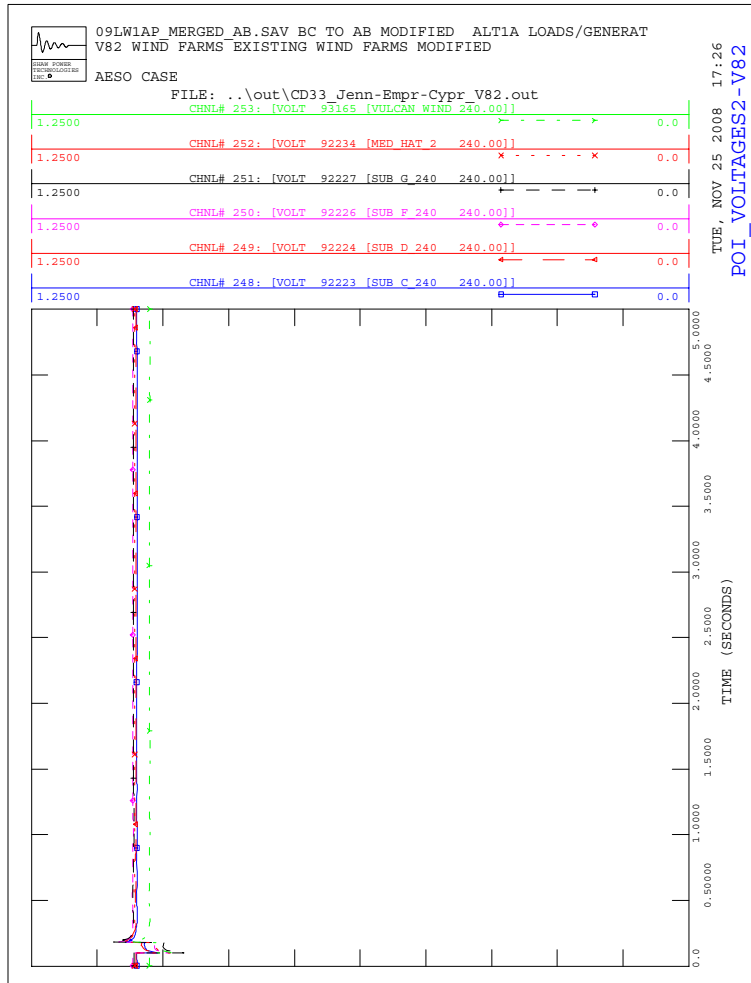
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

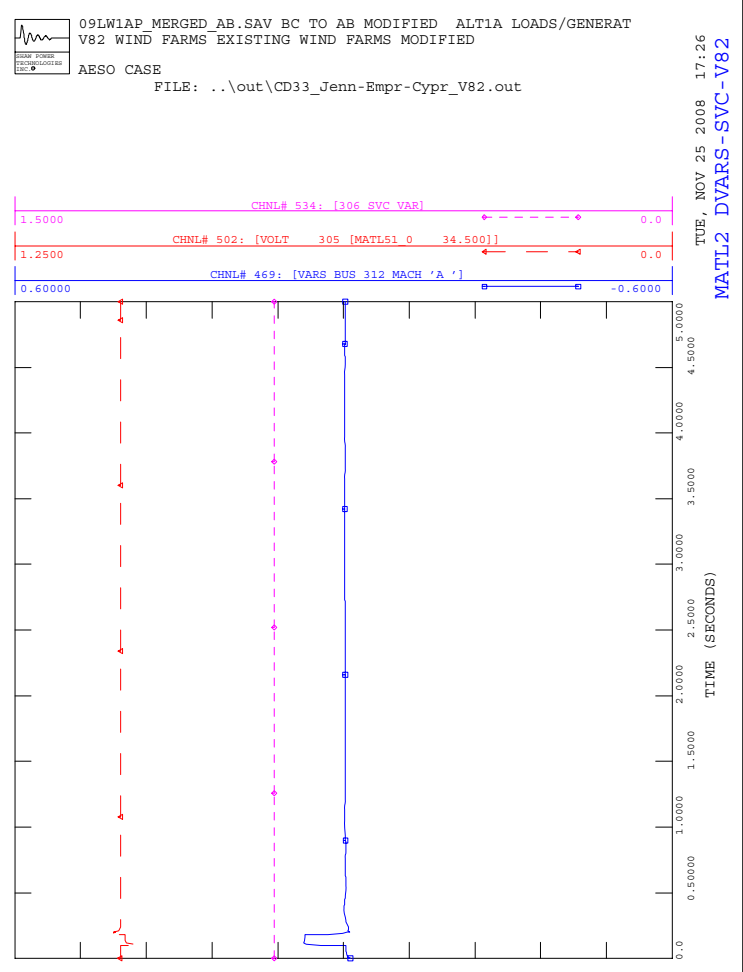
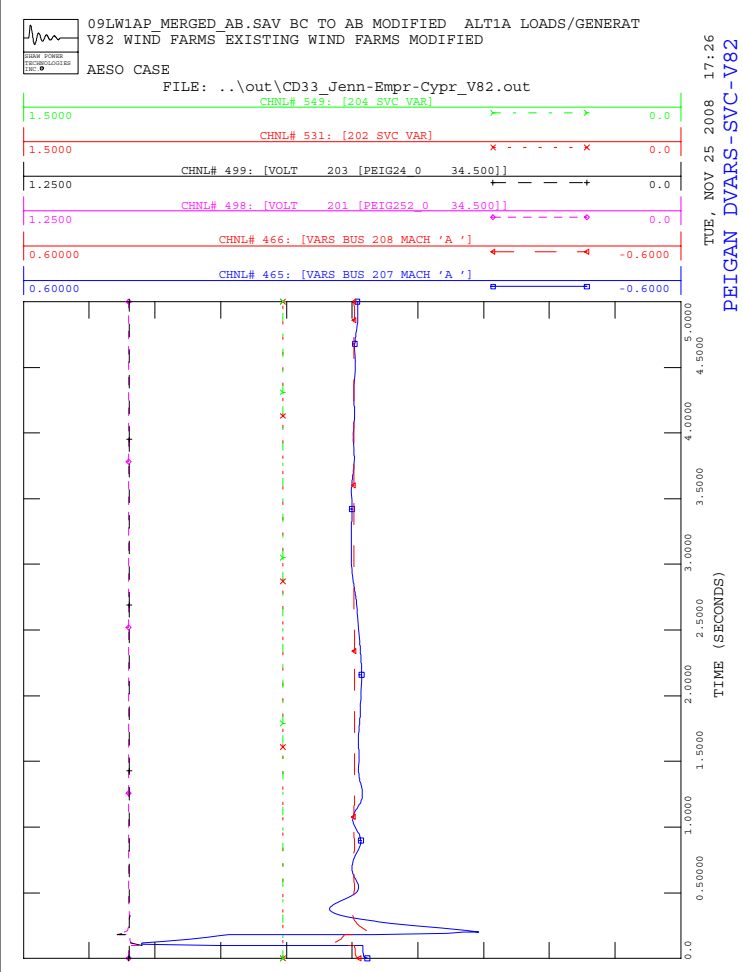
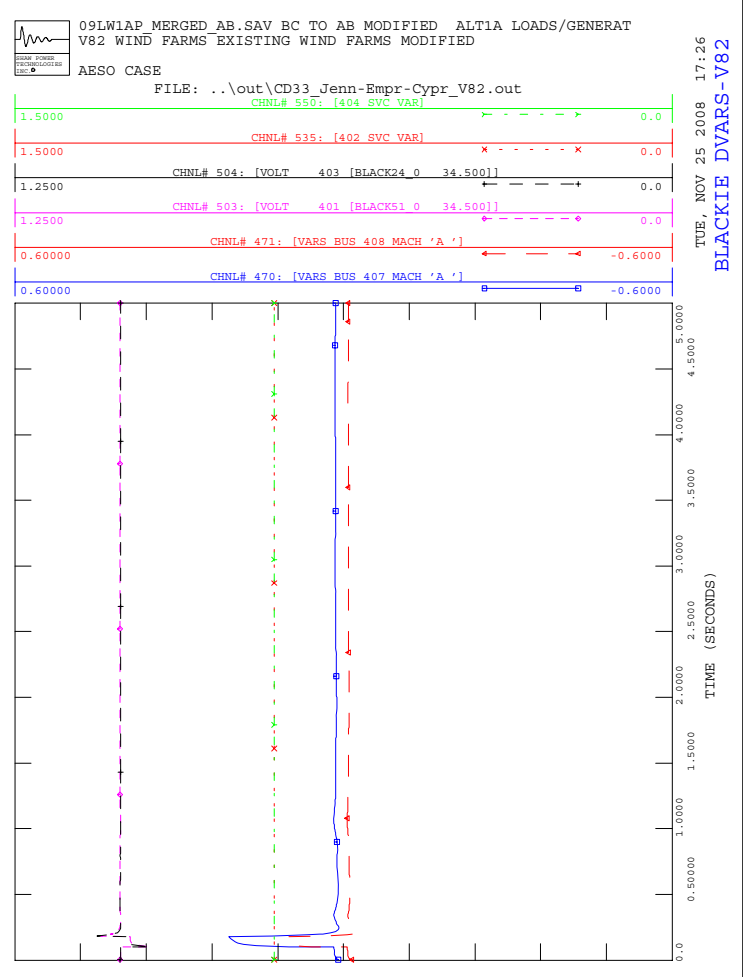
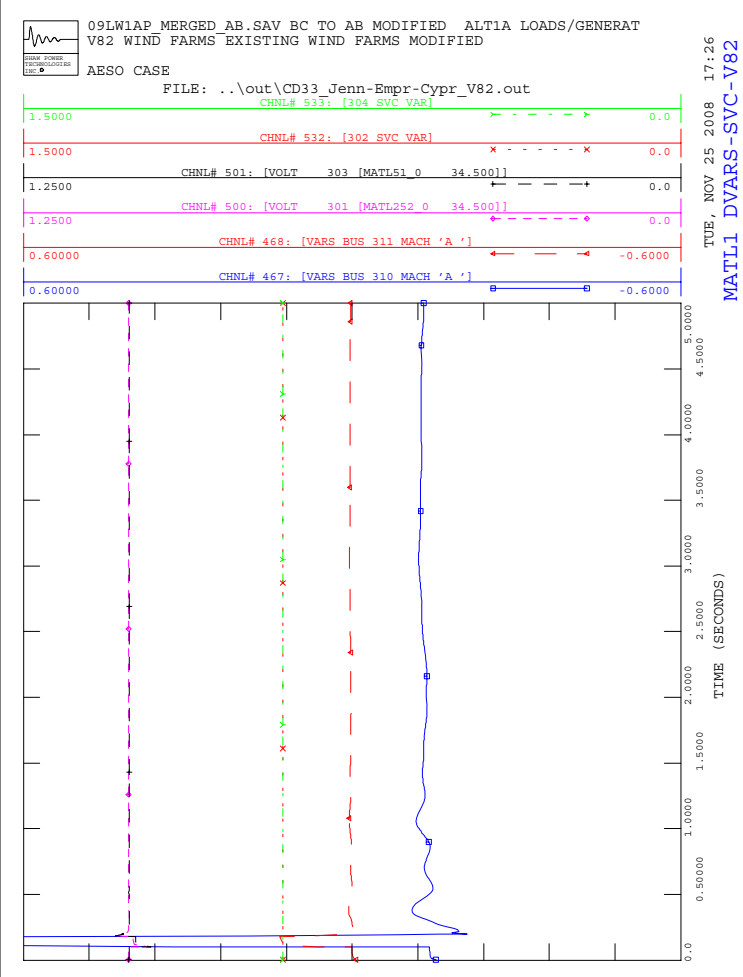
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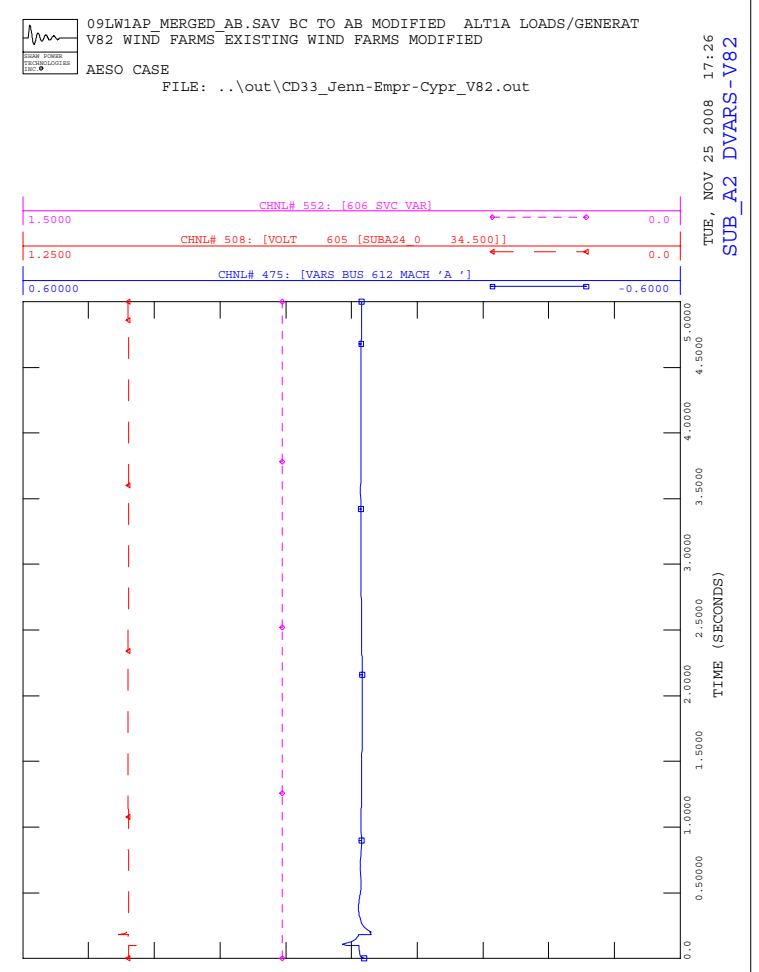
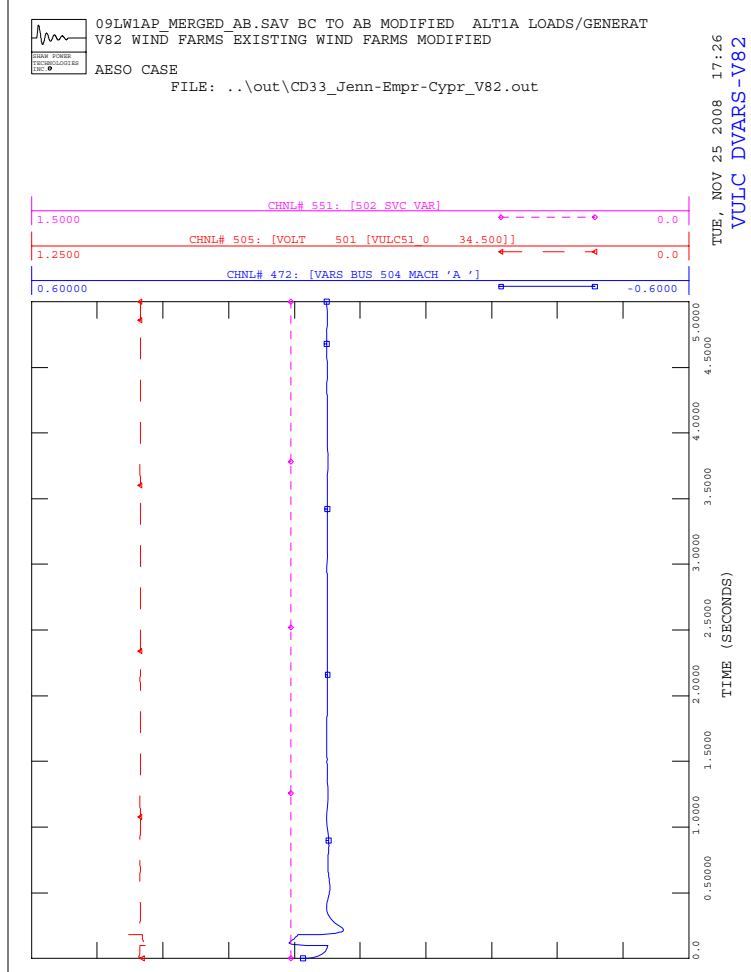
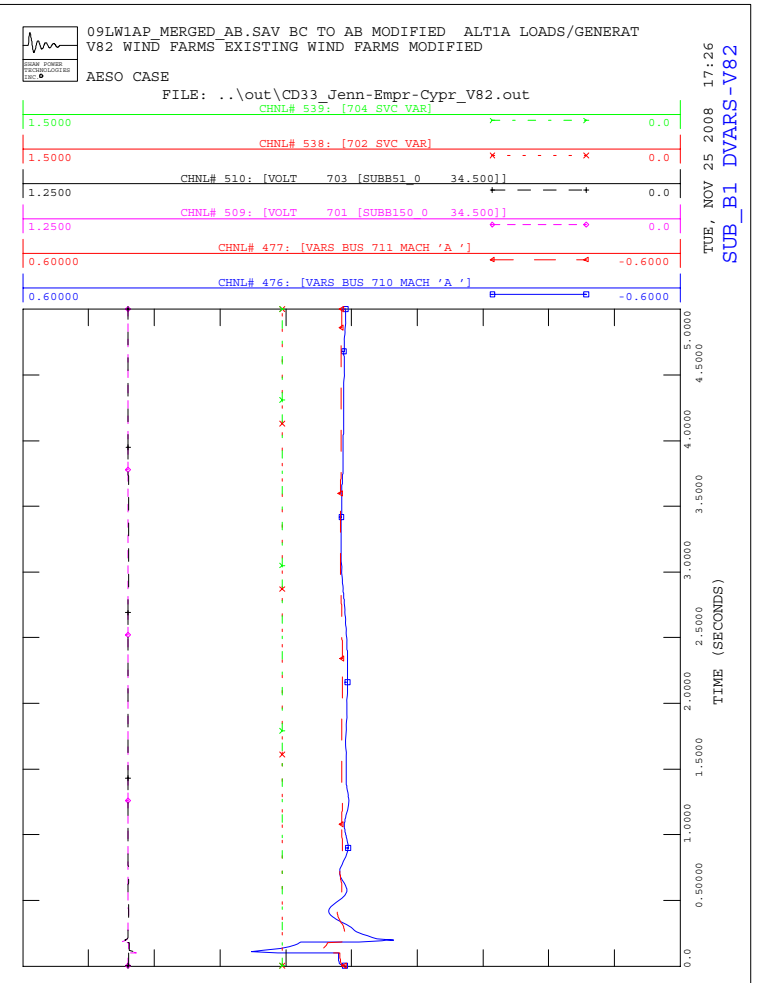
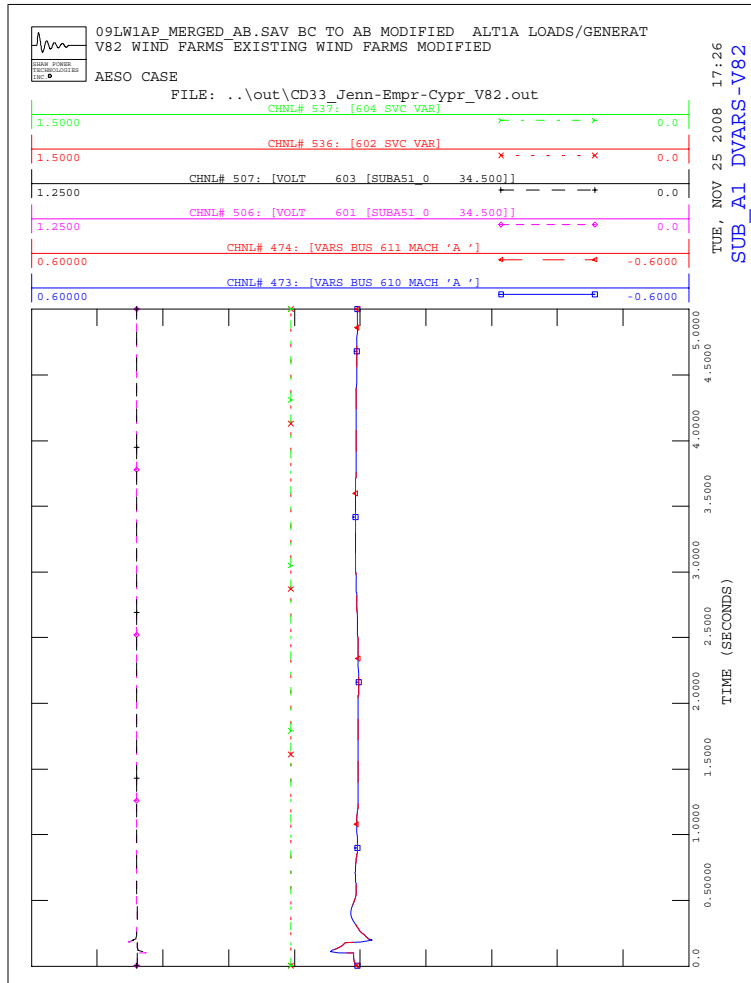


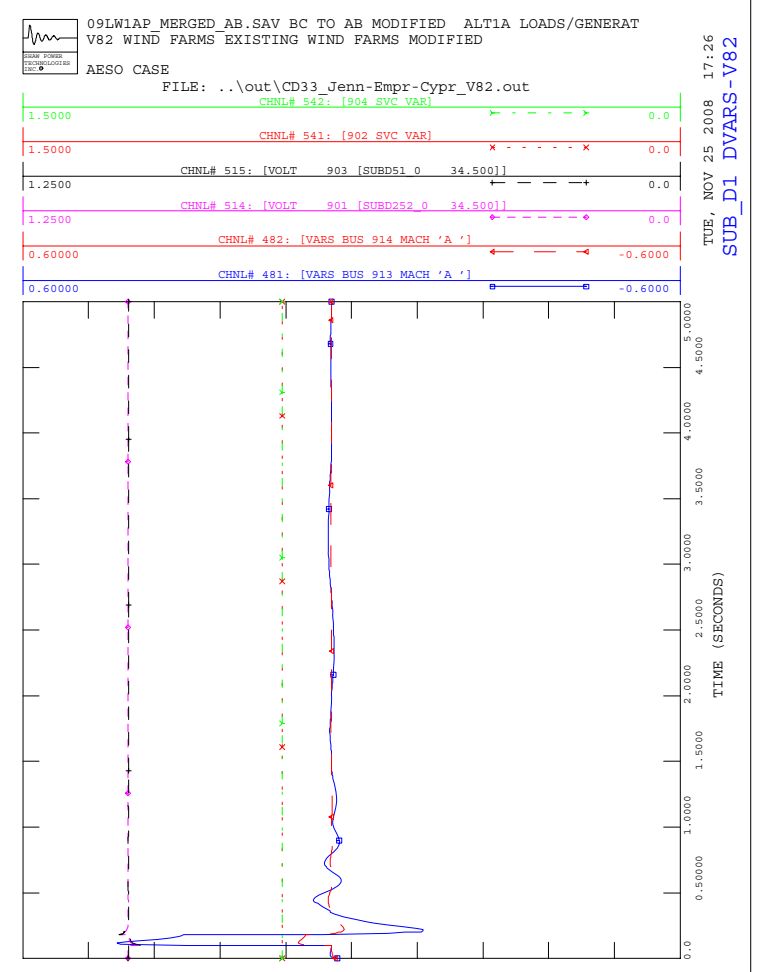
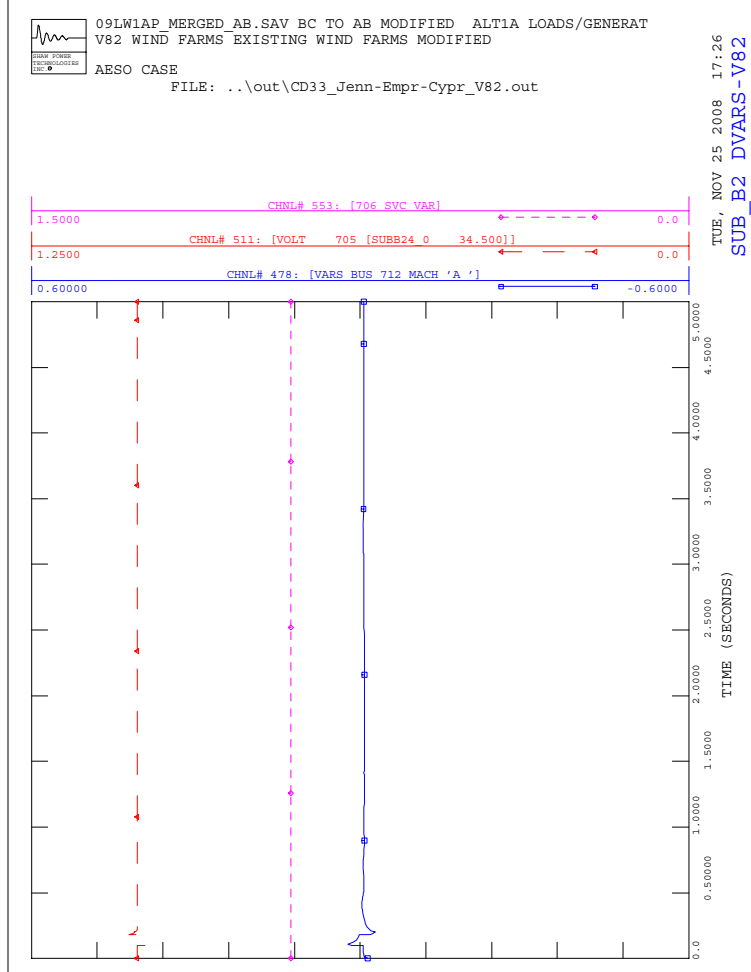
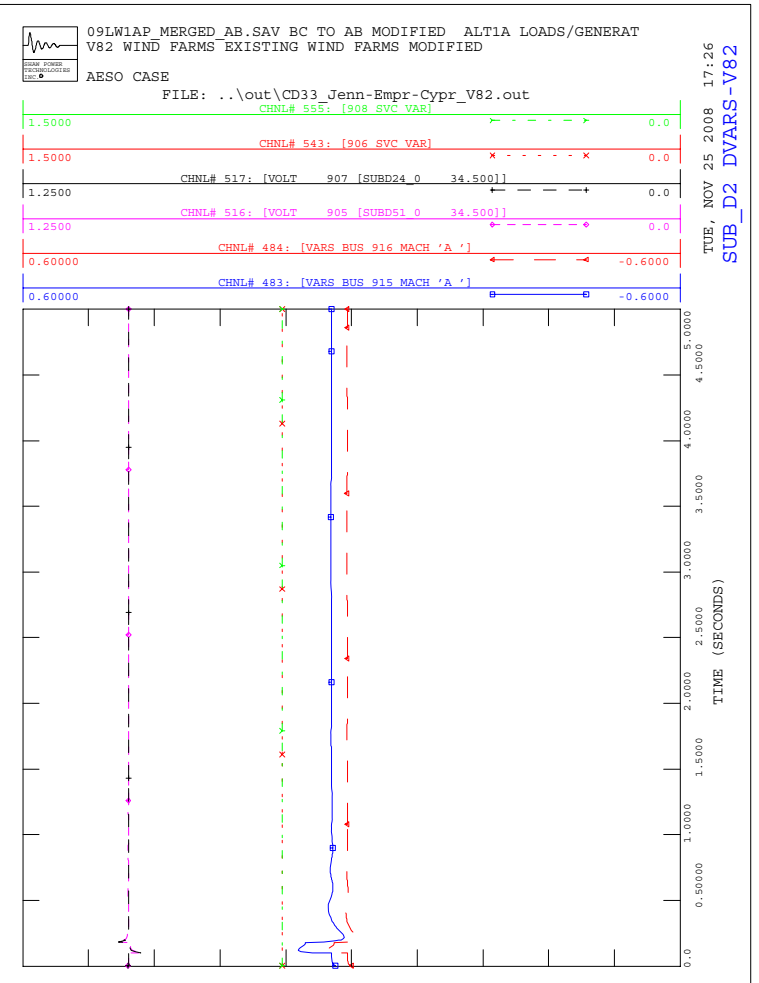
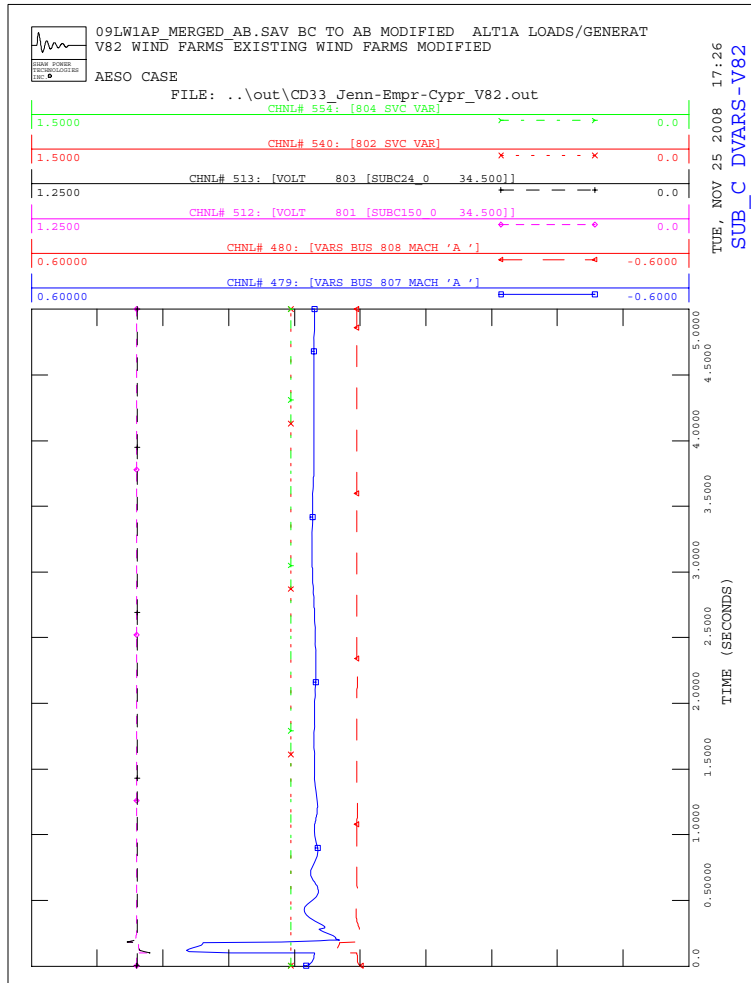


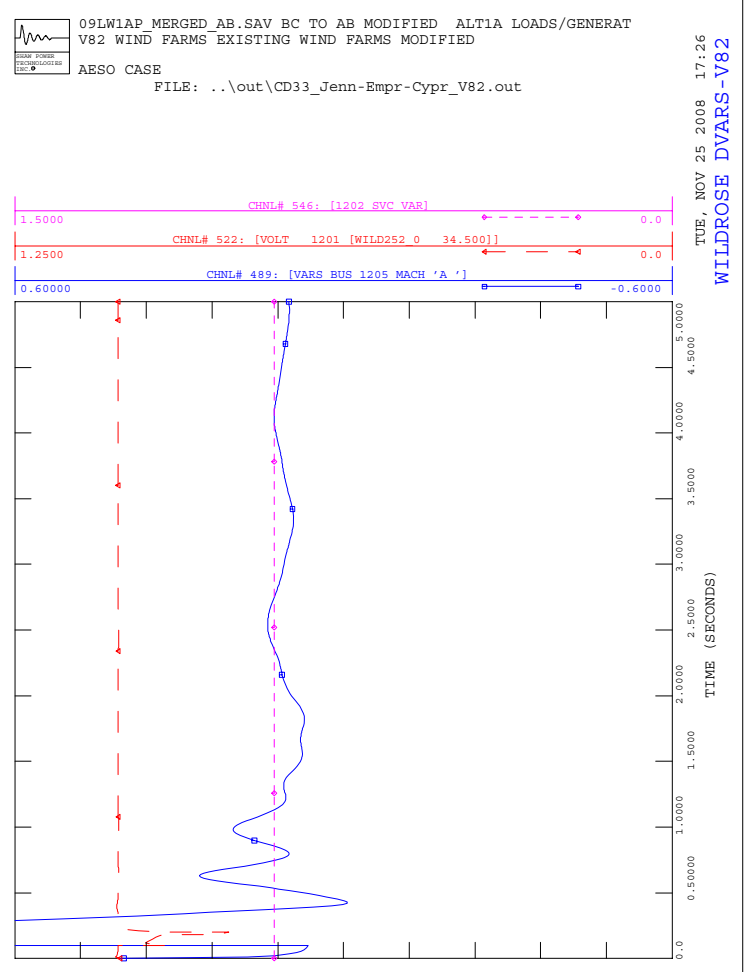
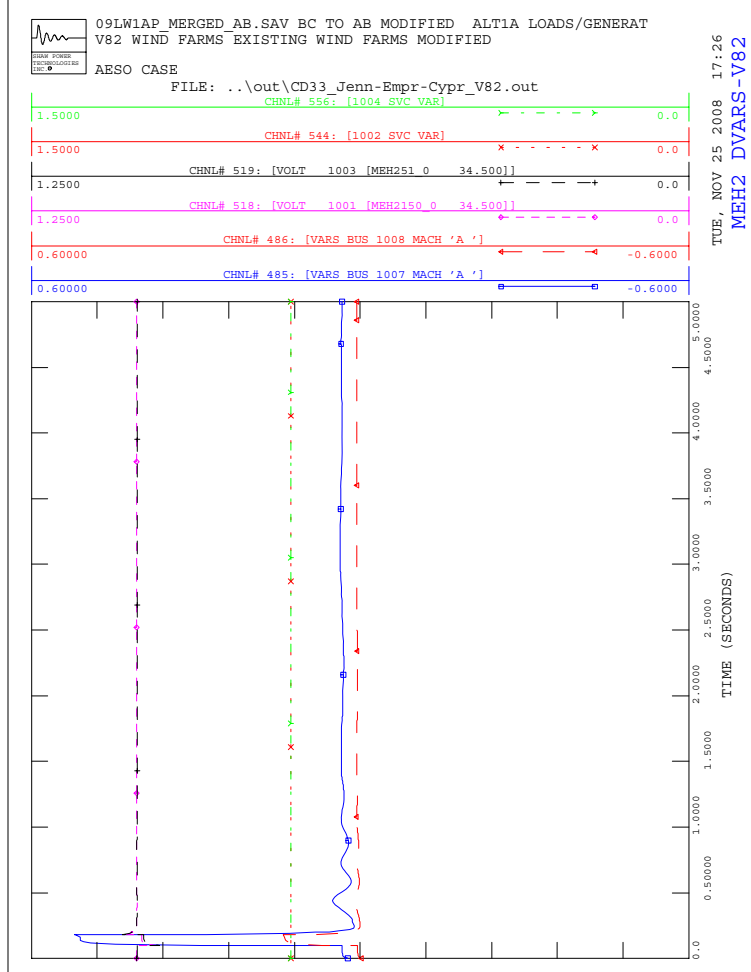
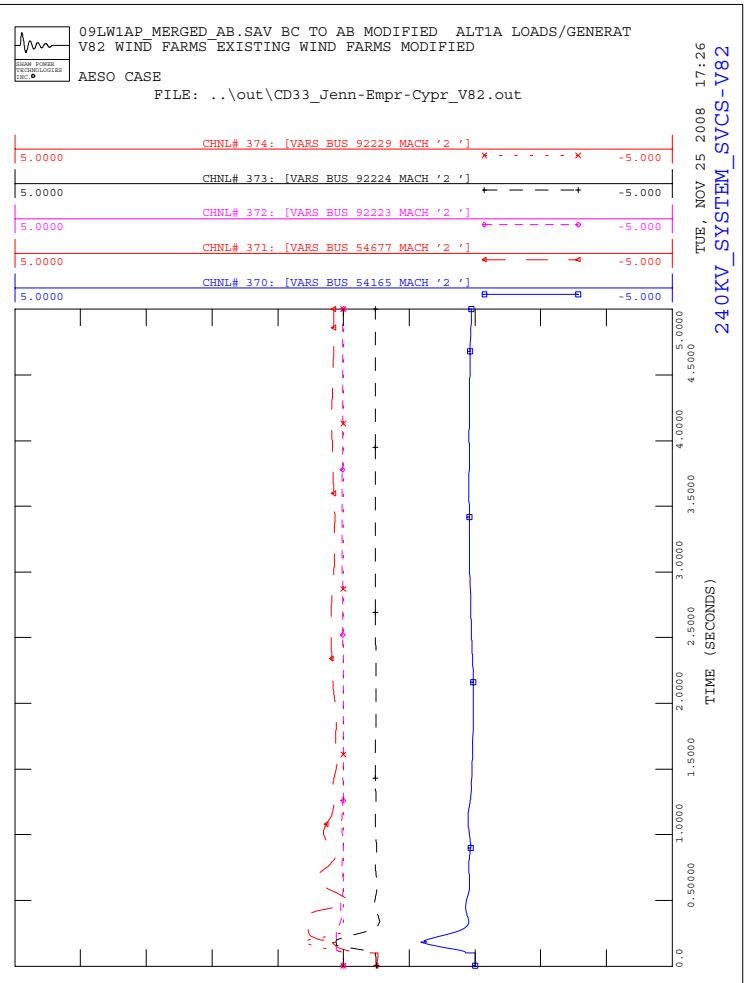
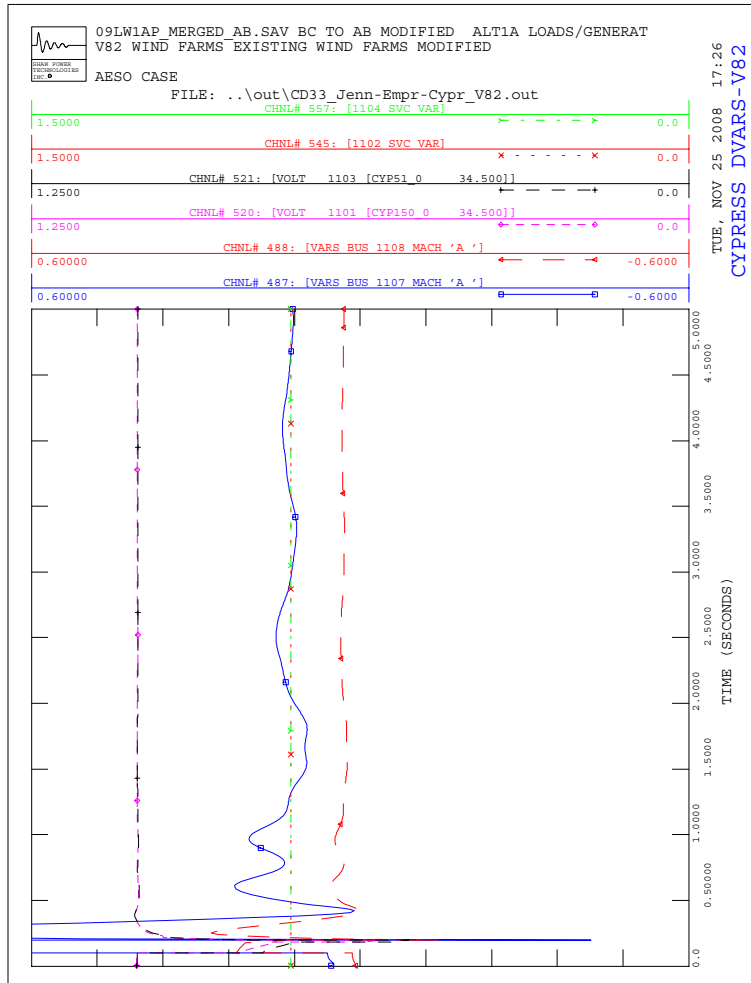












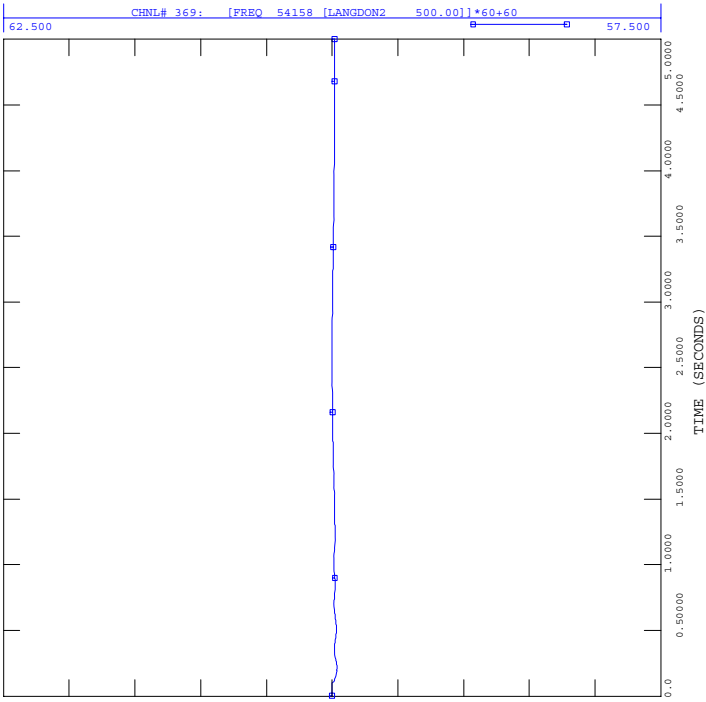


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\CD33_Jenn-Empr-Cypr_V82.out

TUE, NOV 25 2008 17:26
LANGDON_FRQ-V82

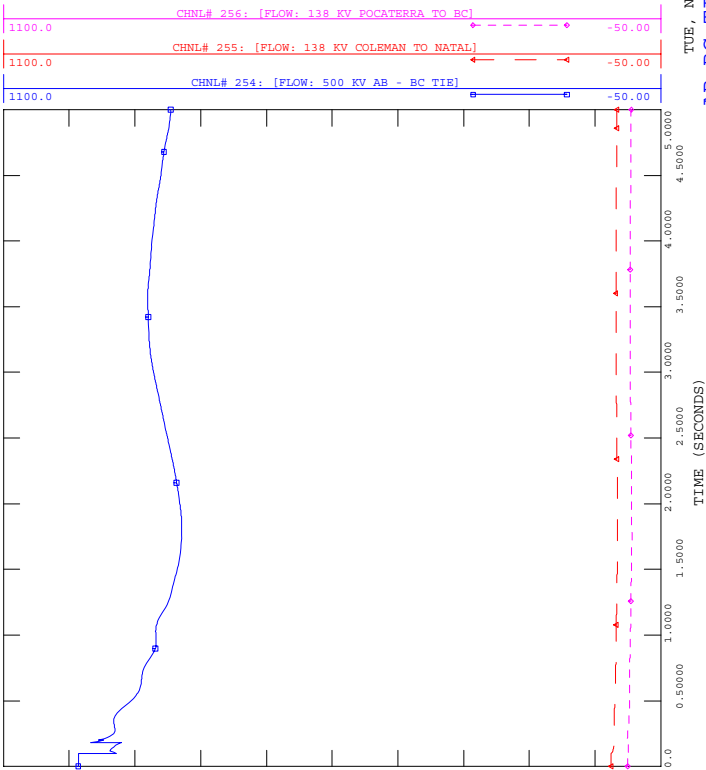


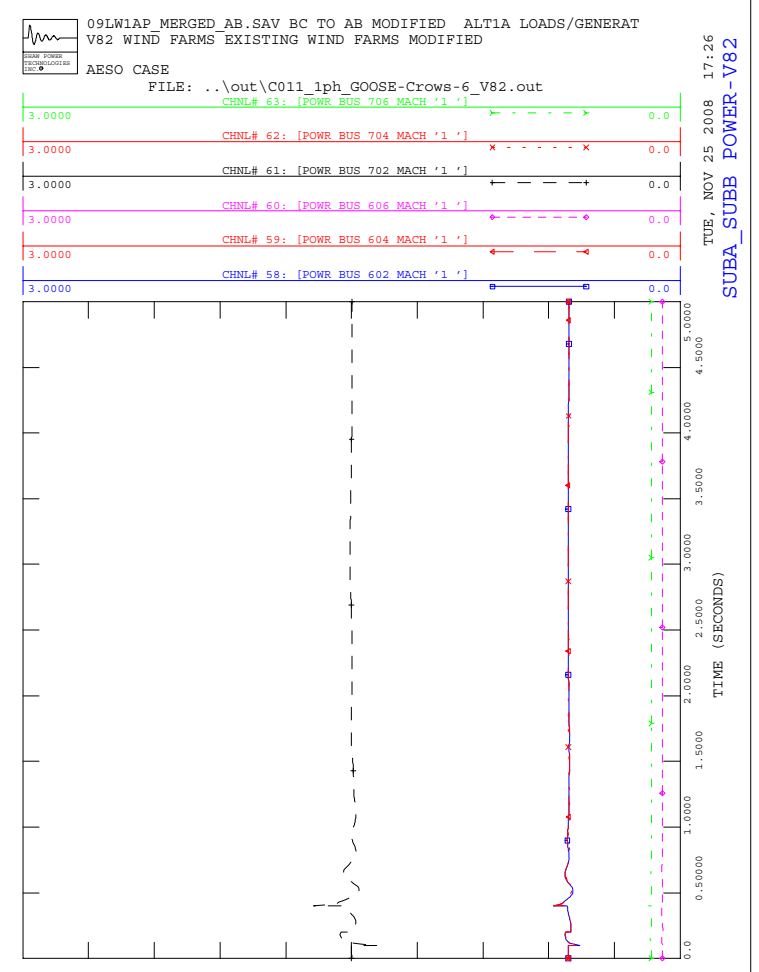
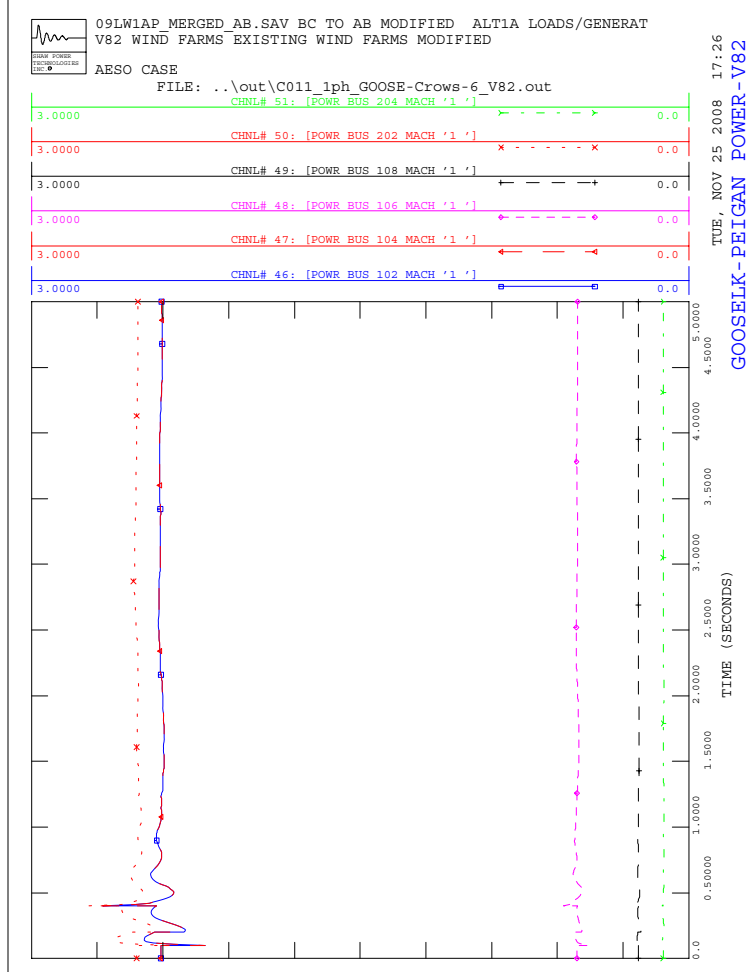
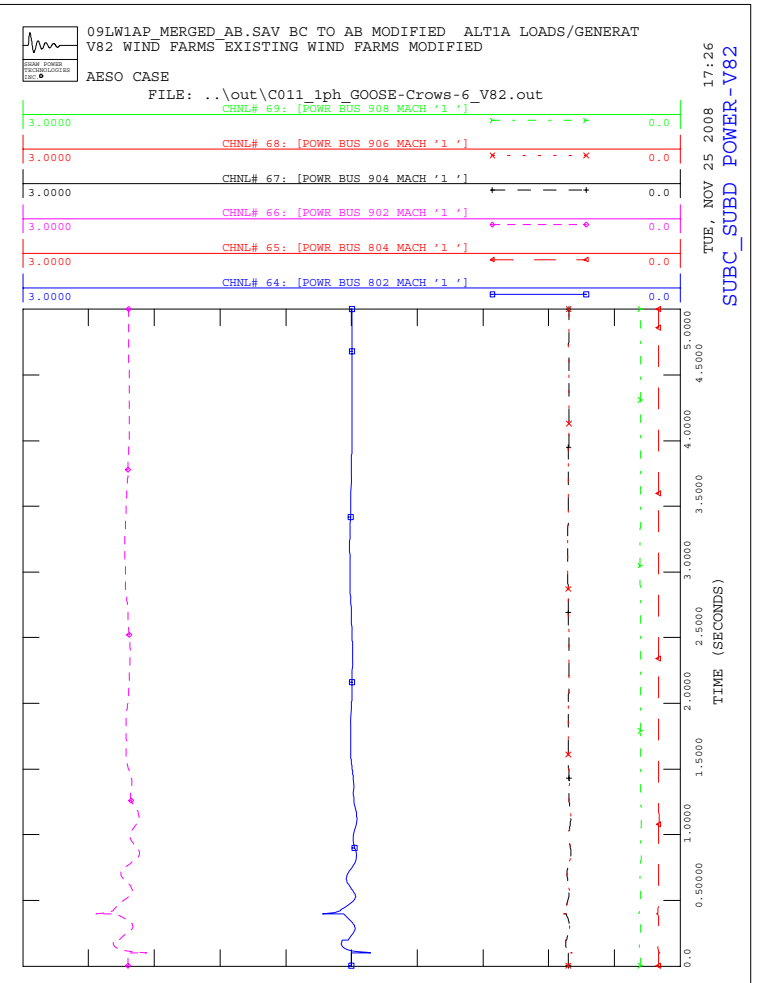
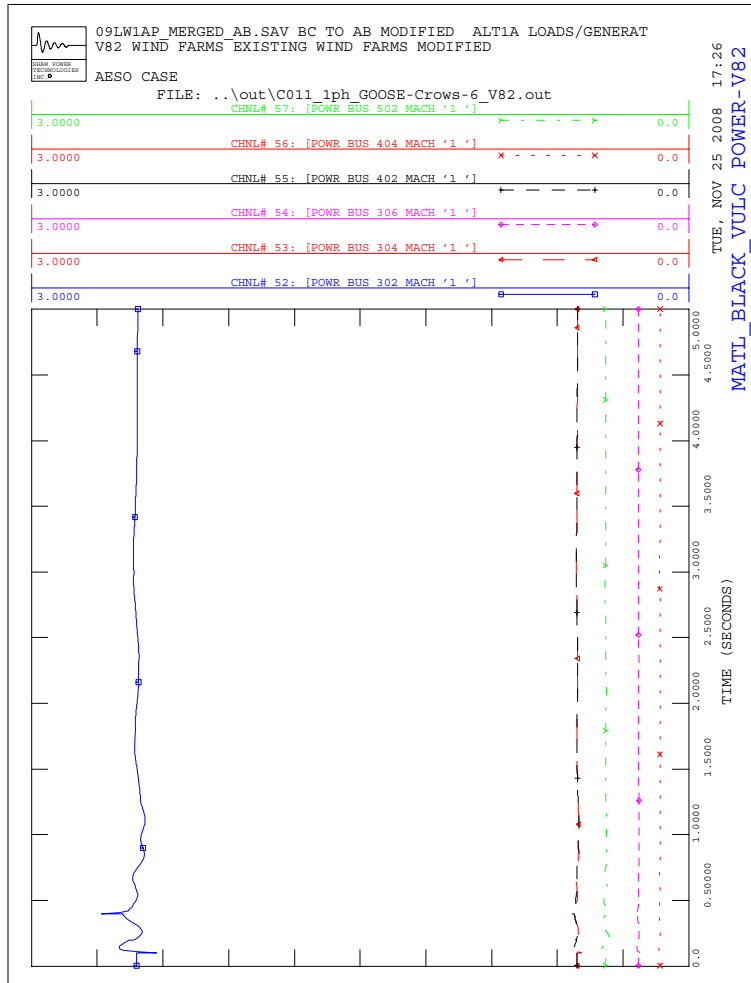
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

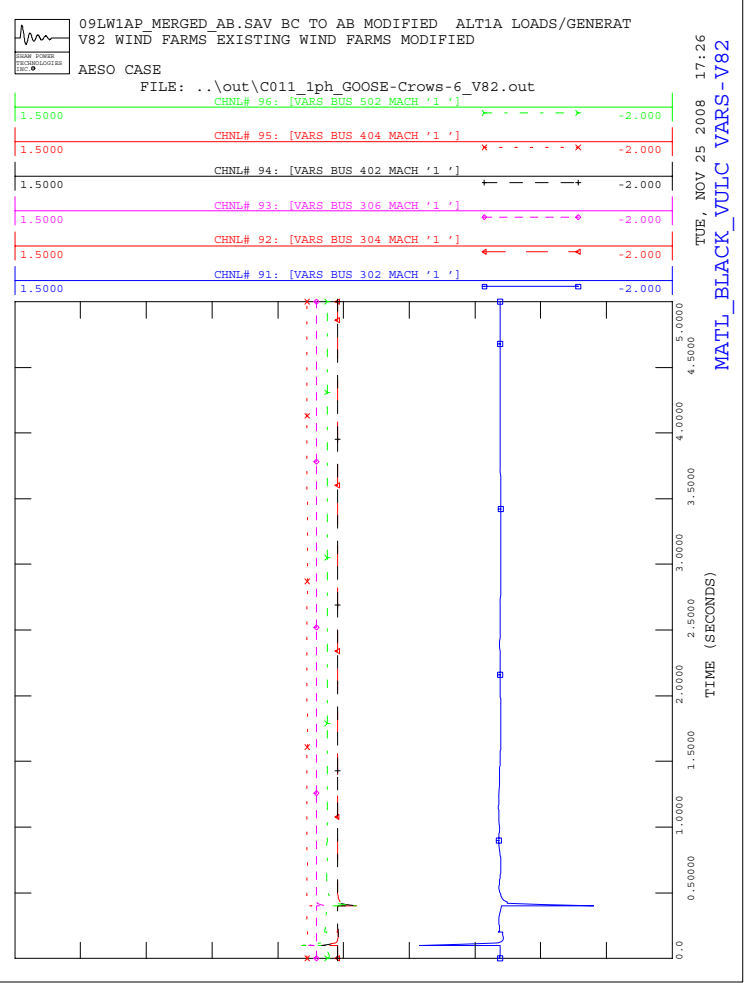
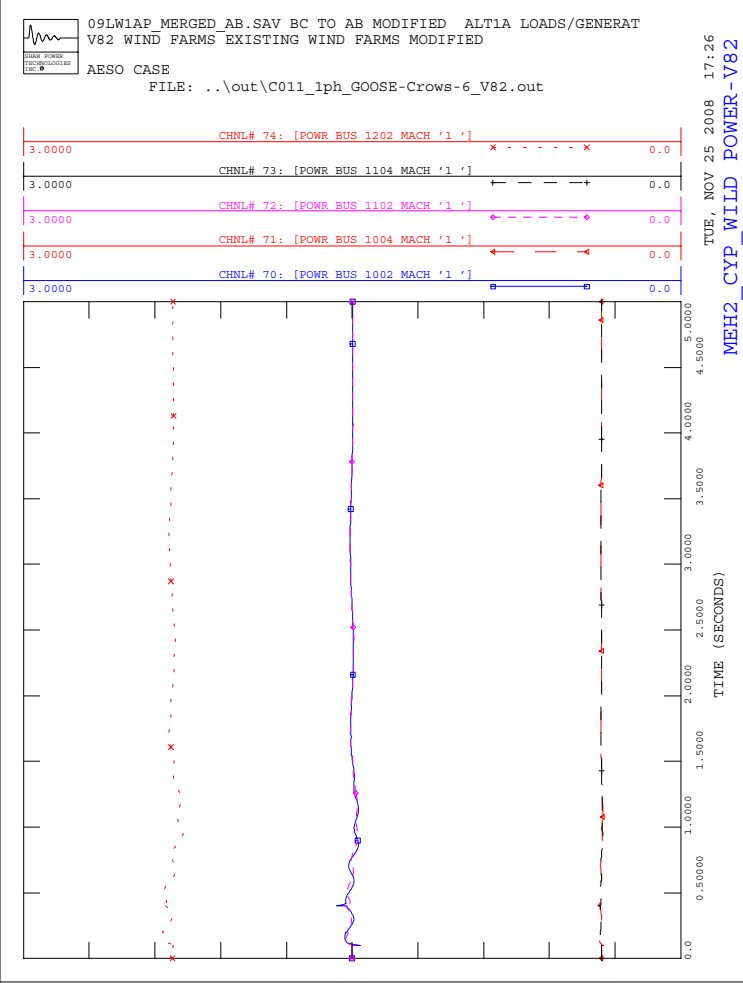
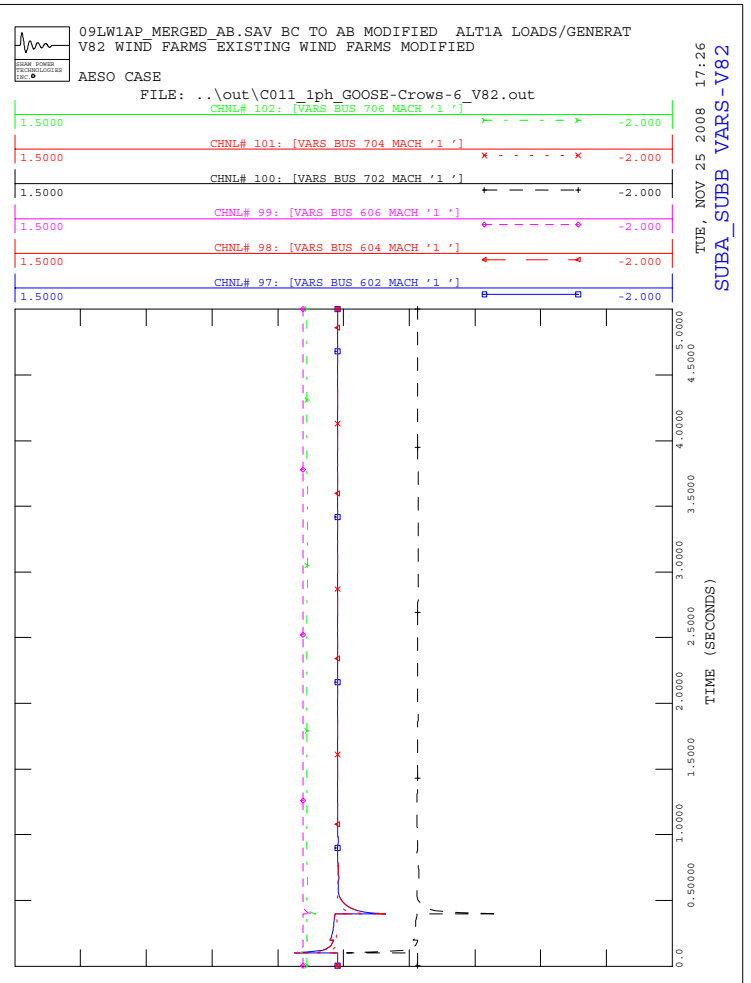
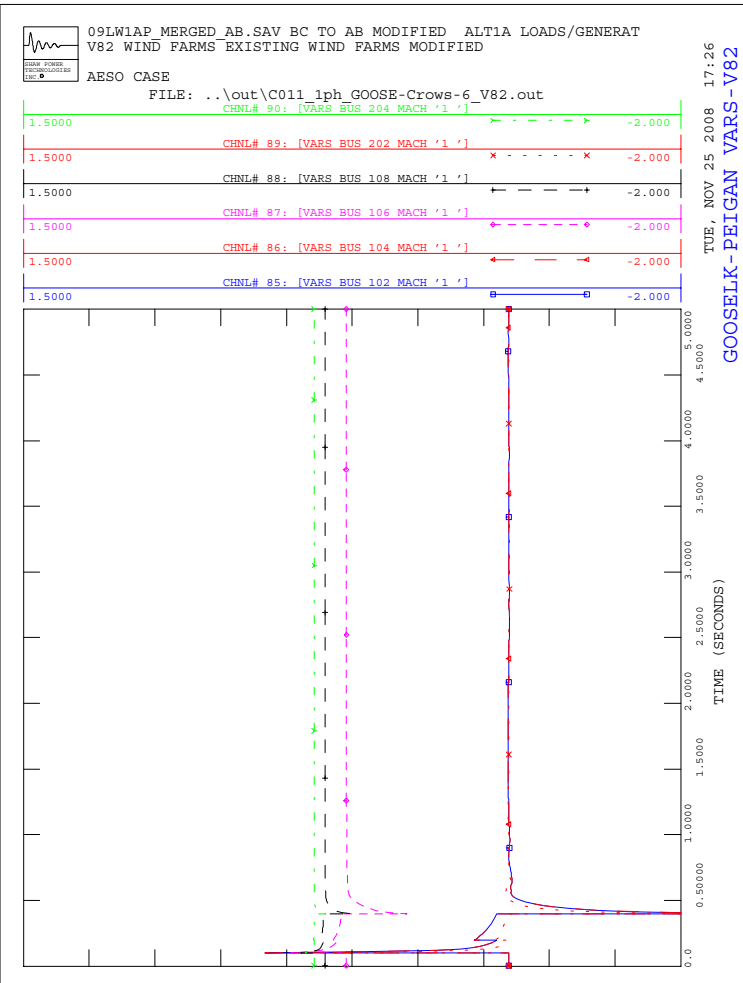
ABSO CASE

FILE: ..\out\CD33_Jenn-Empr-Cypr_V82.out

TUE, NOV 25 2008 17:26
AB_BC_TIE_FLOWS-V82

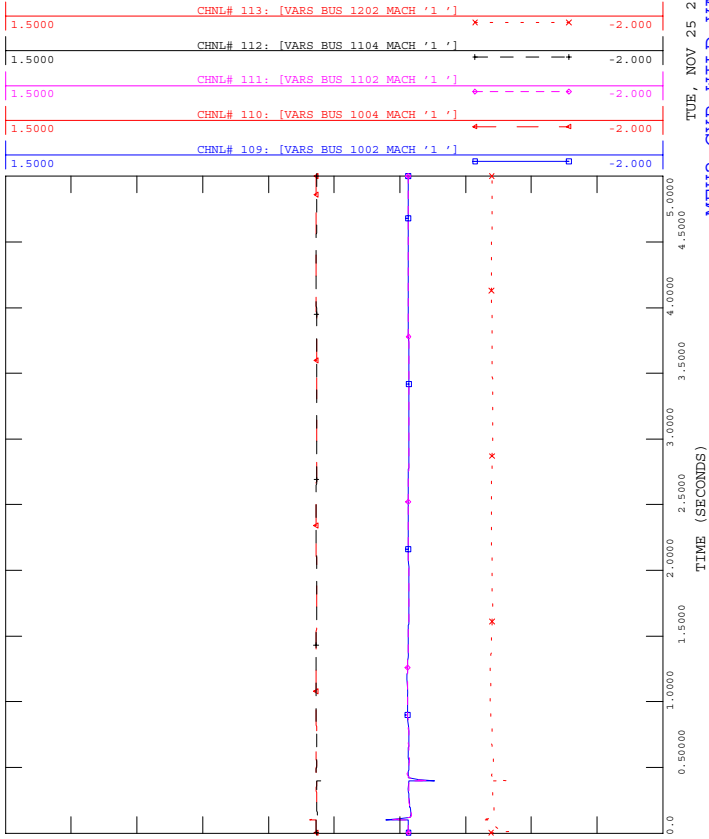






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

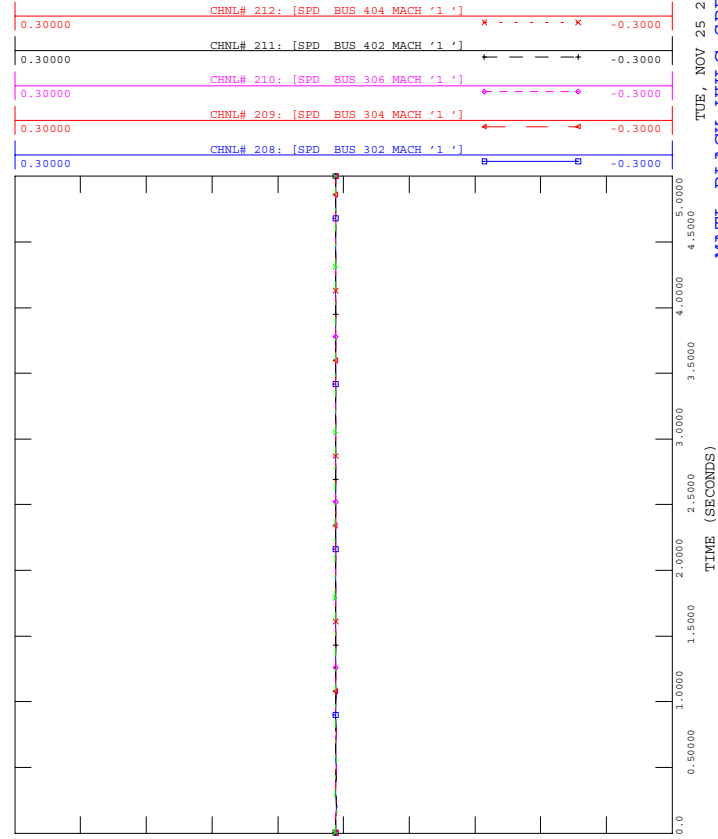
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TUE, NOV 25 2008 17:26

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

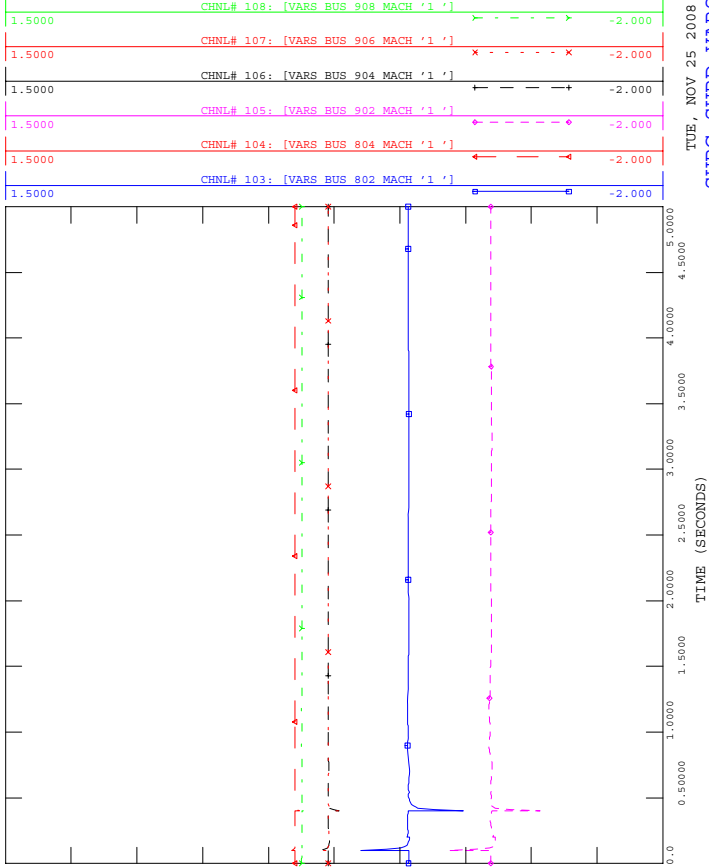
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TUE, NOV 25 2008 17:26

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

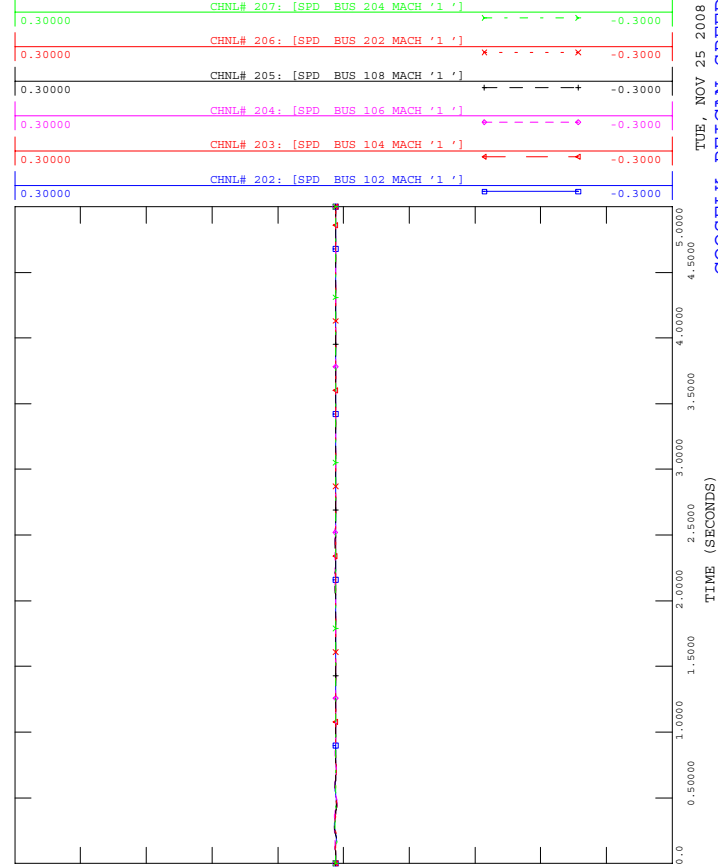
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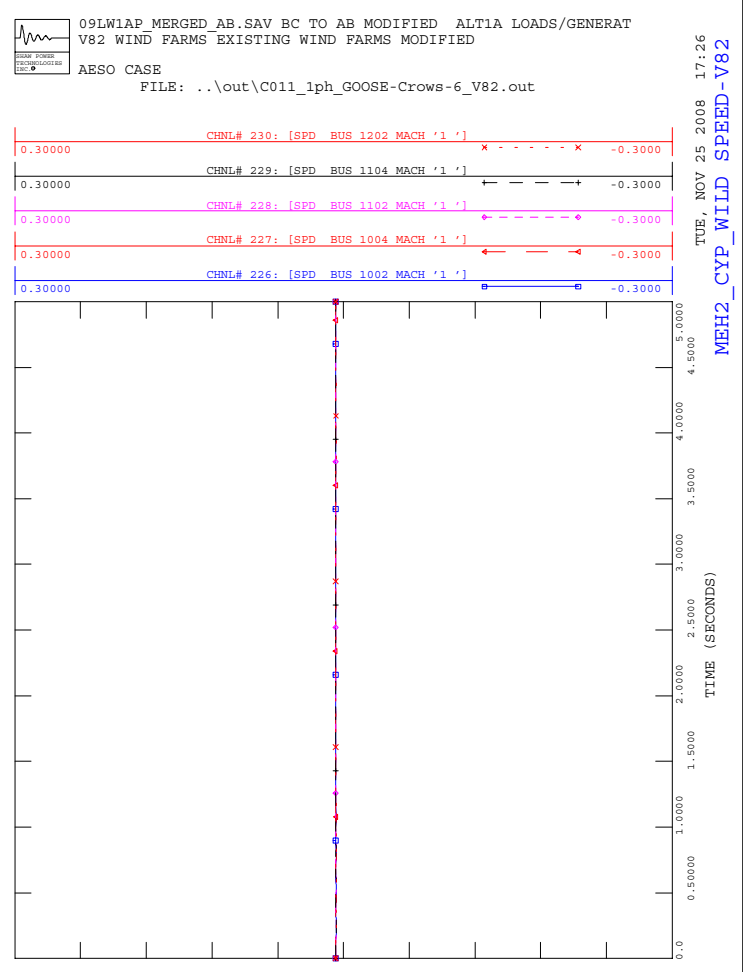
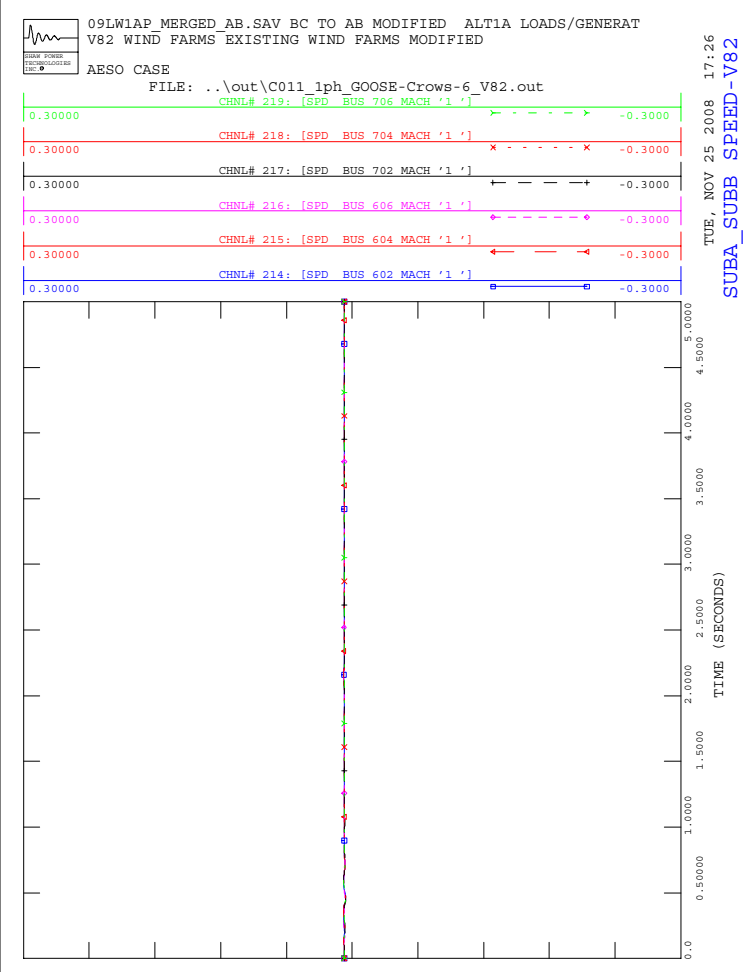
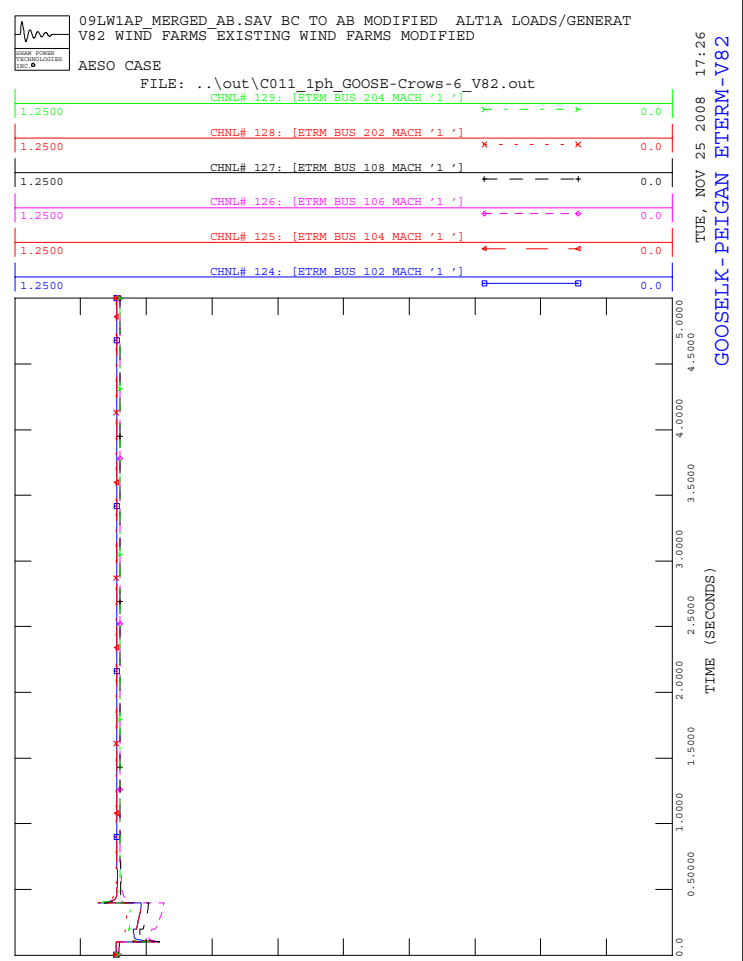
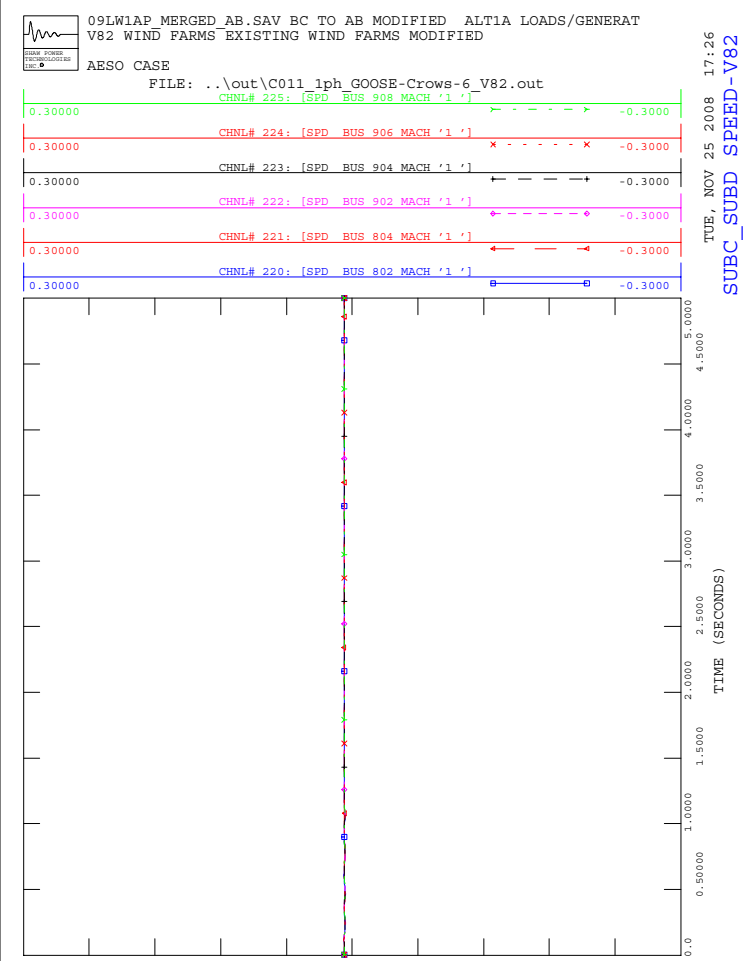
TUE, NOV 25 2008 17:26

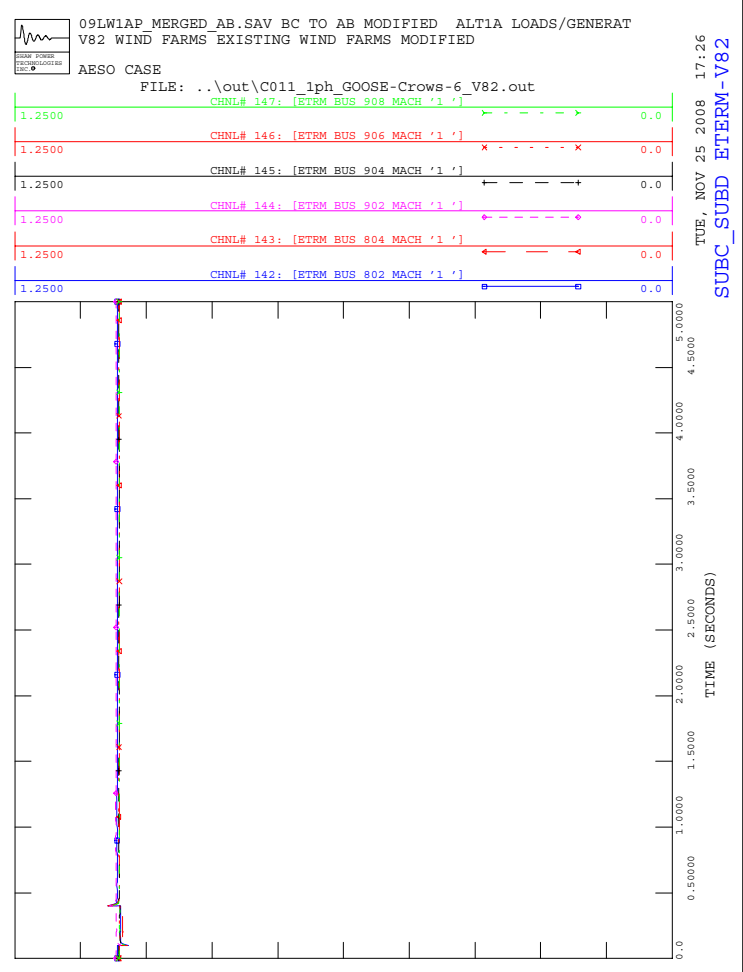
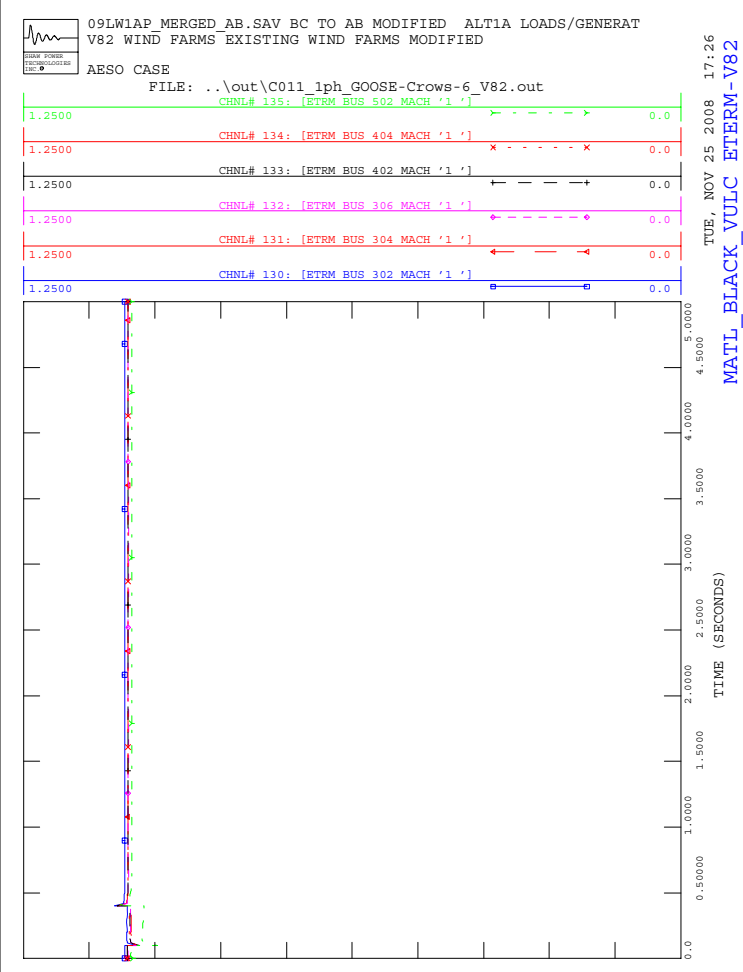
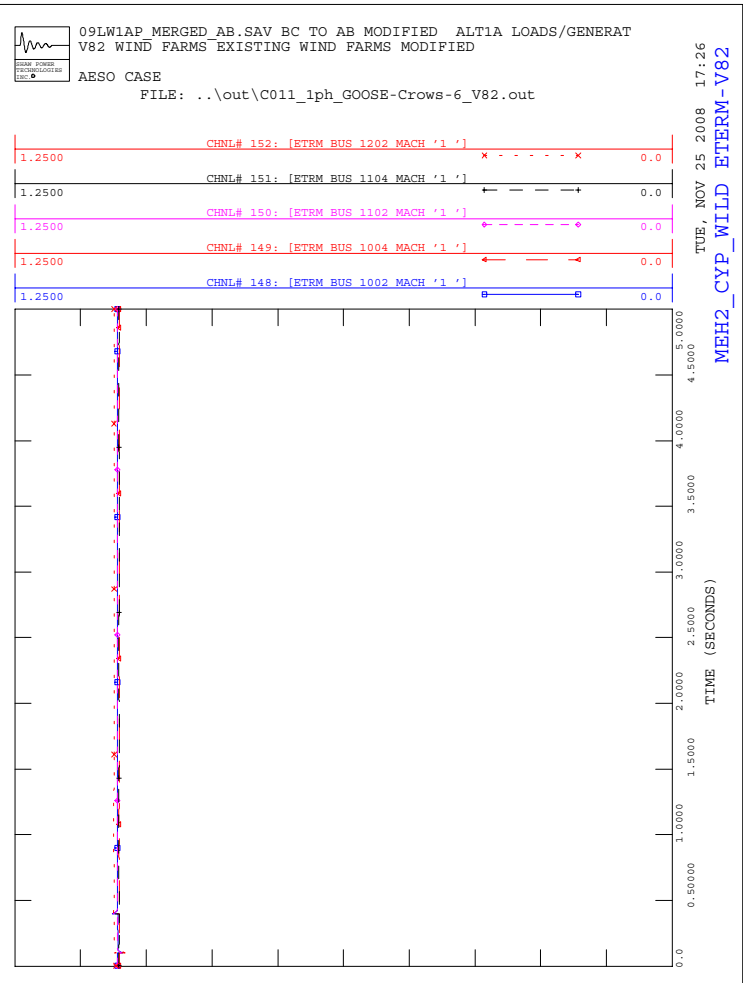
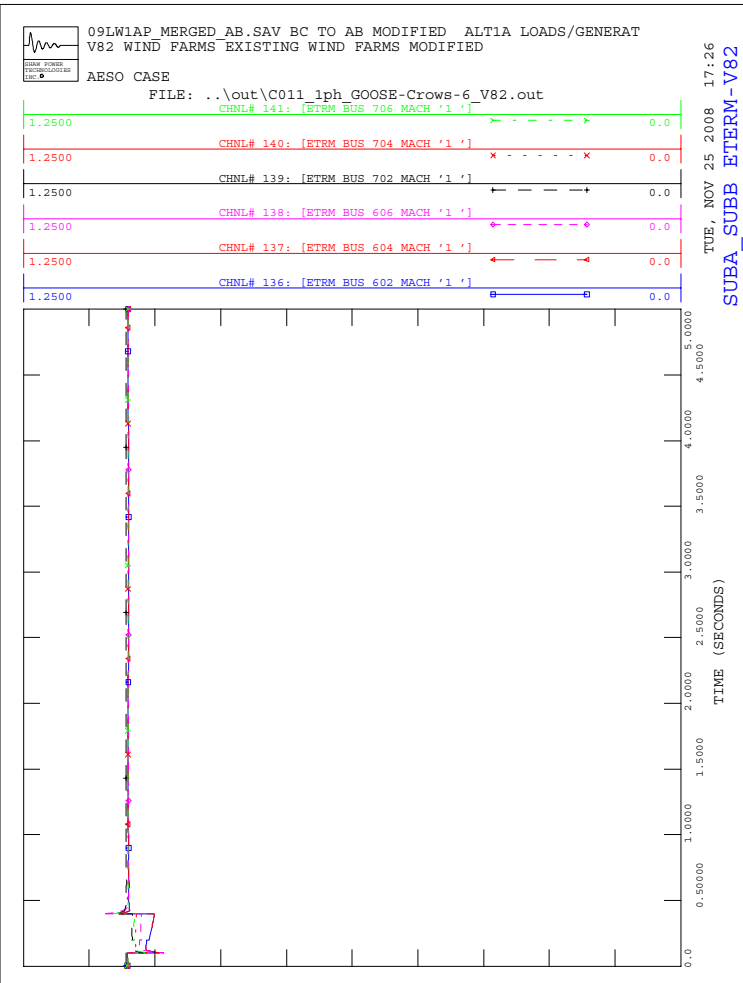
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

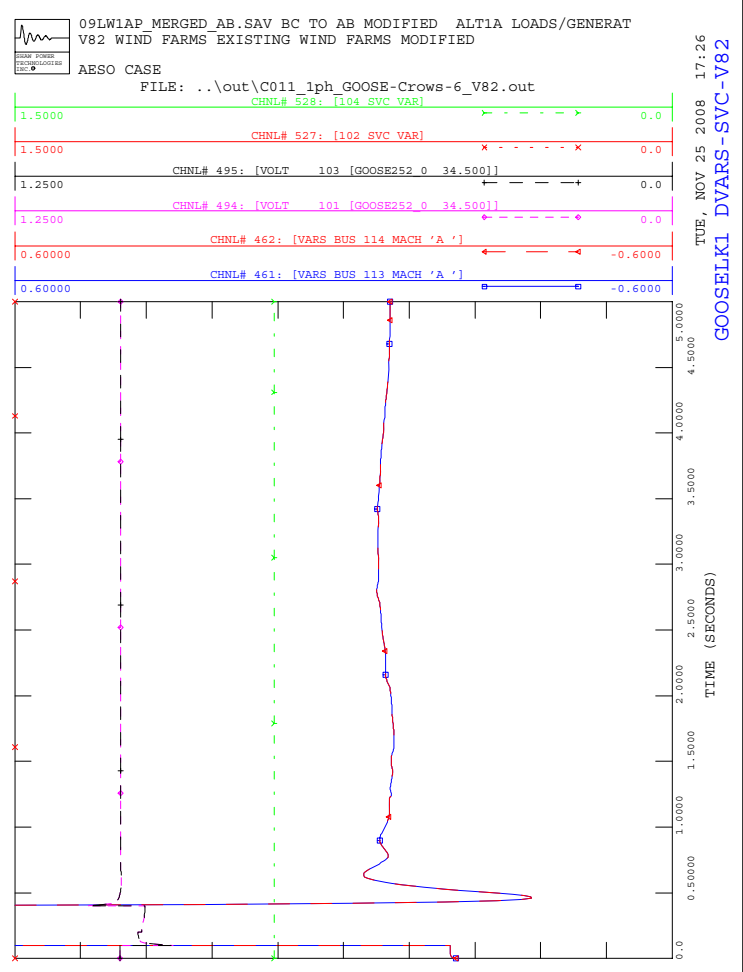
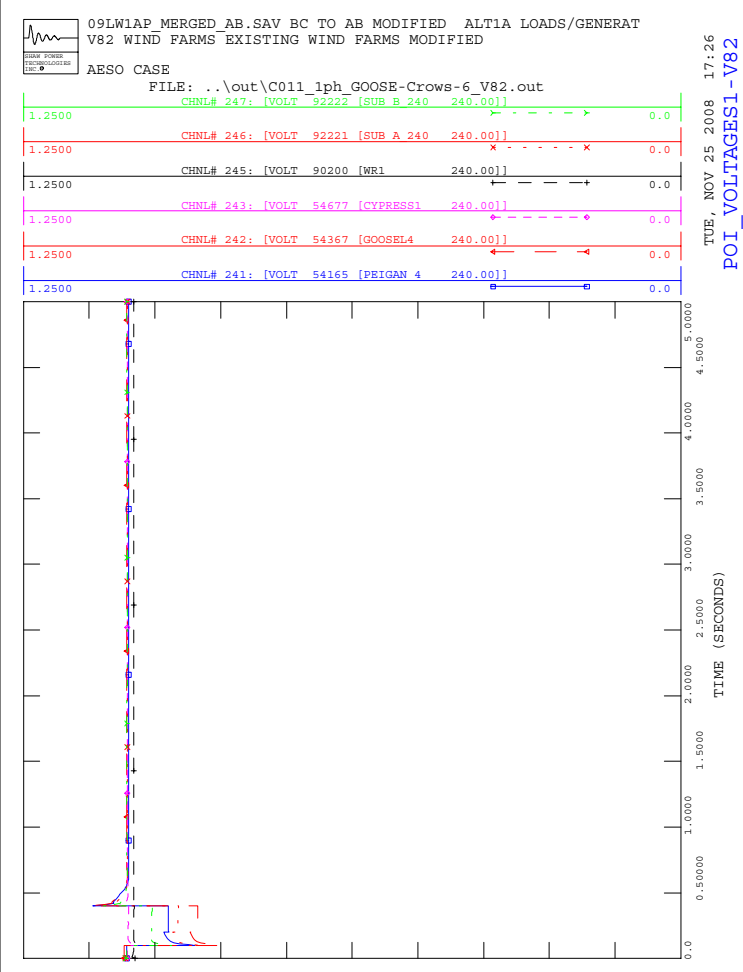
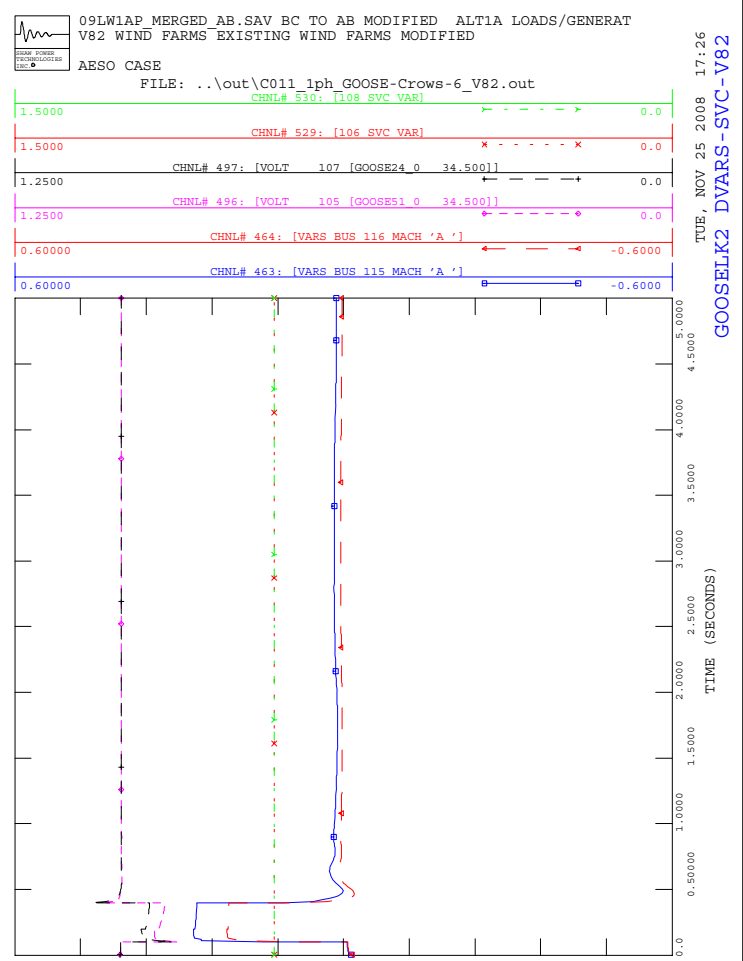
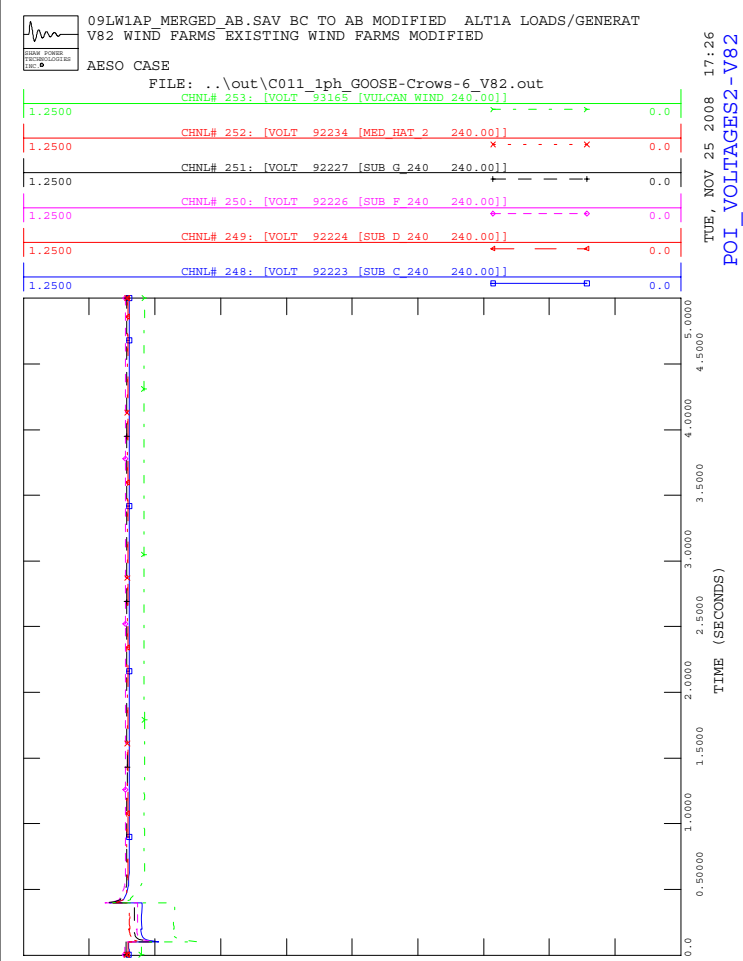
FILE: ..\out\C011_1ph_GOOSE-Crows-6_V82.out

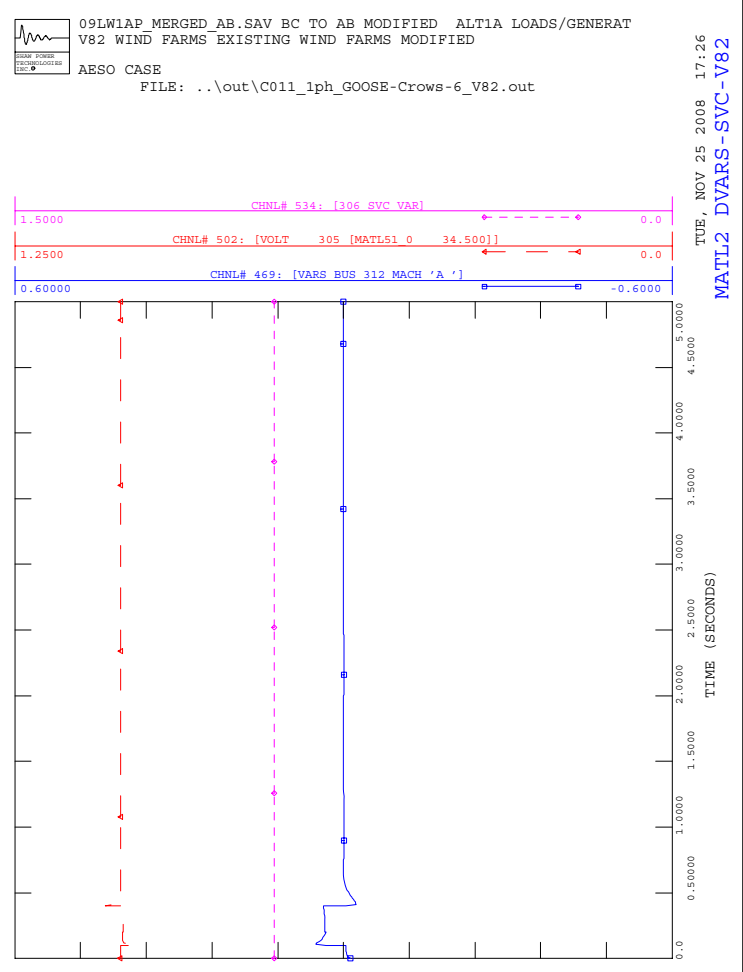
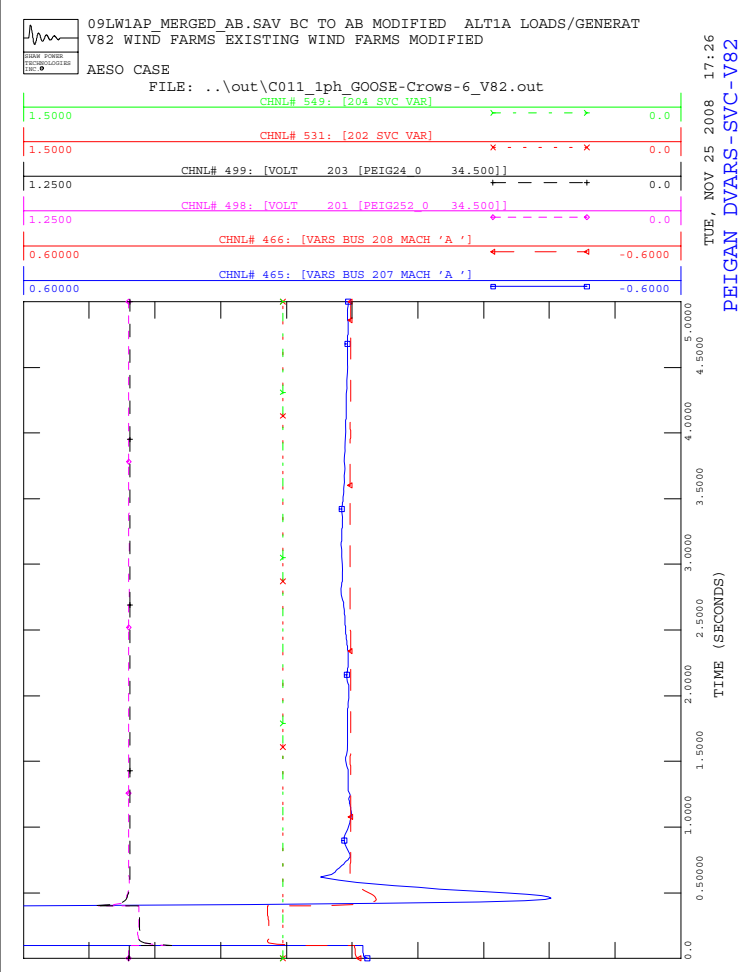
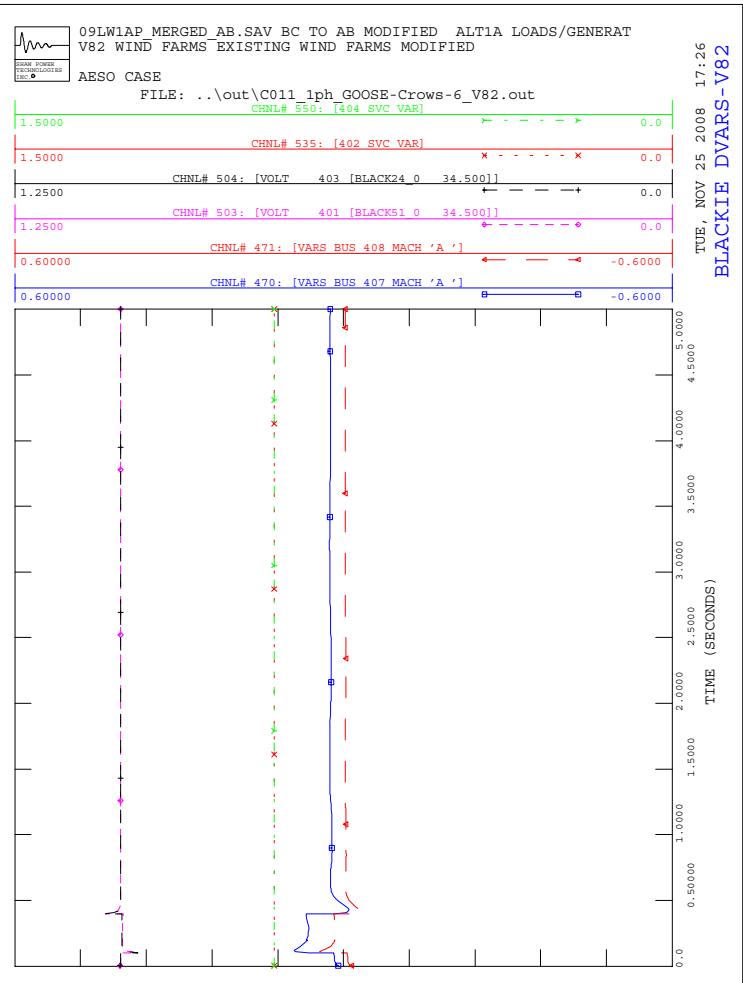
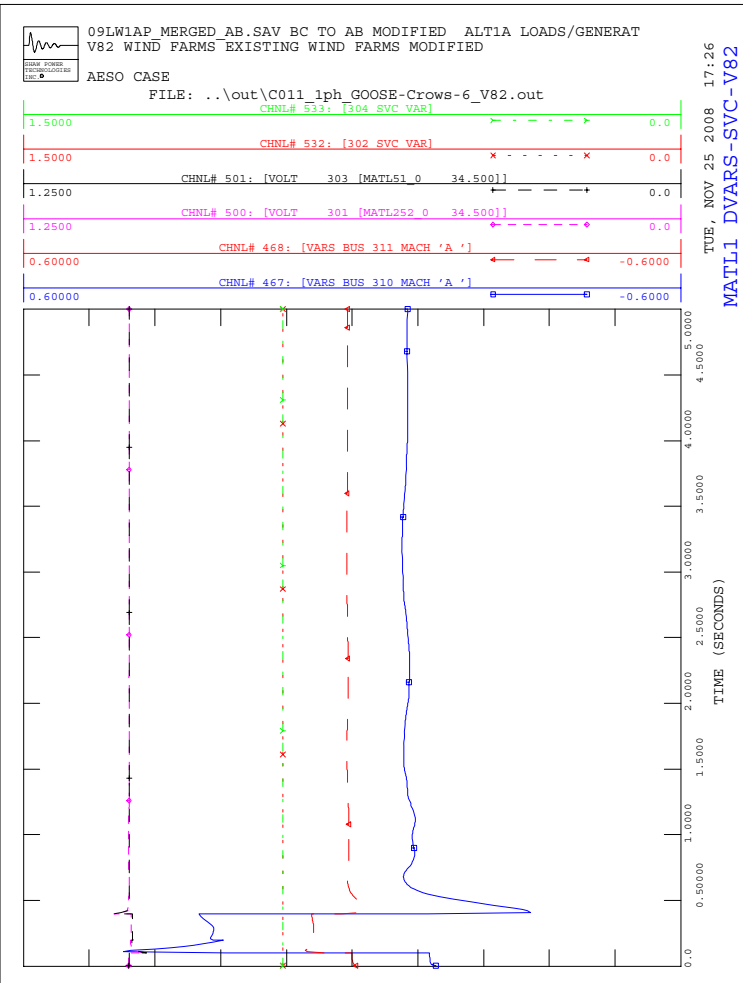


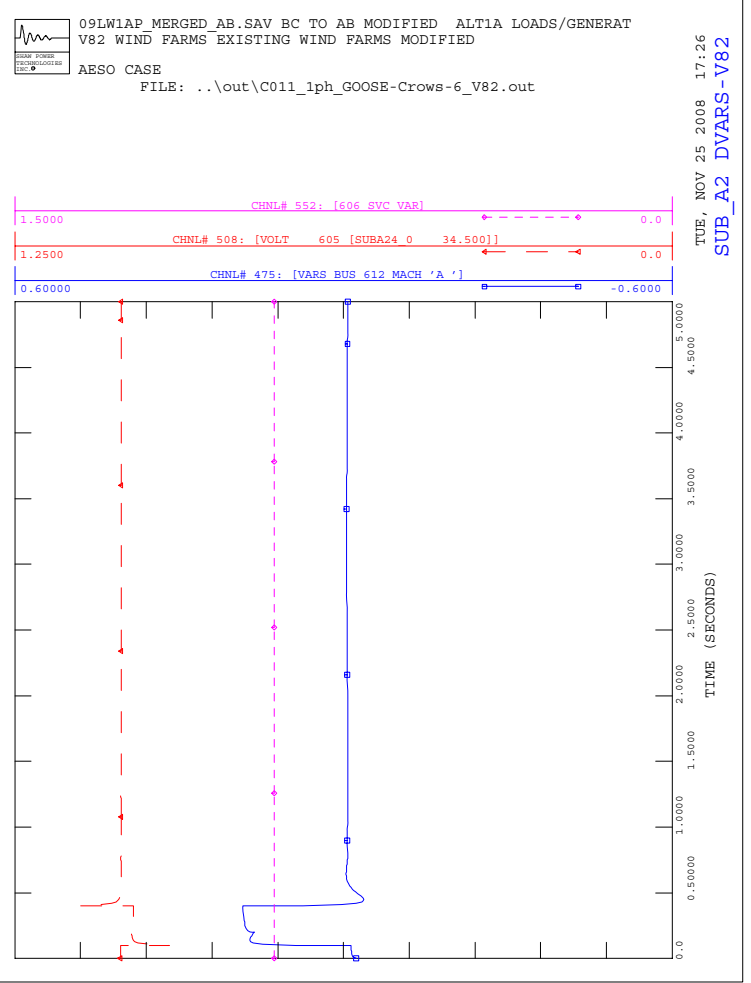
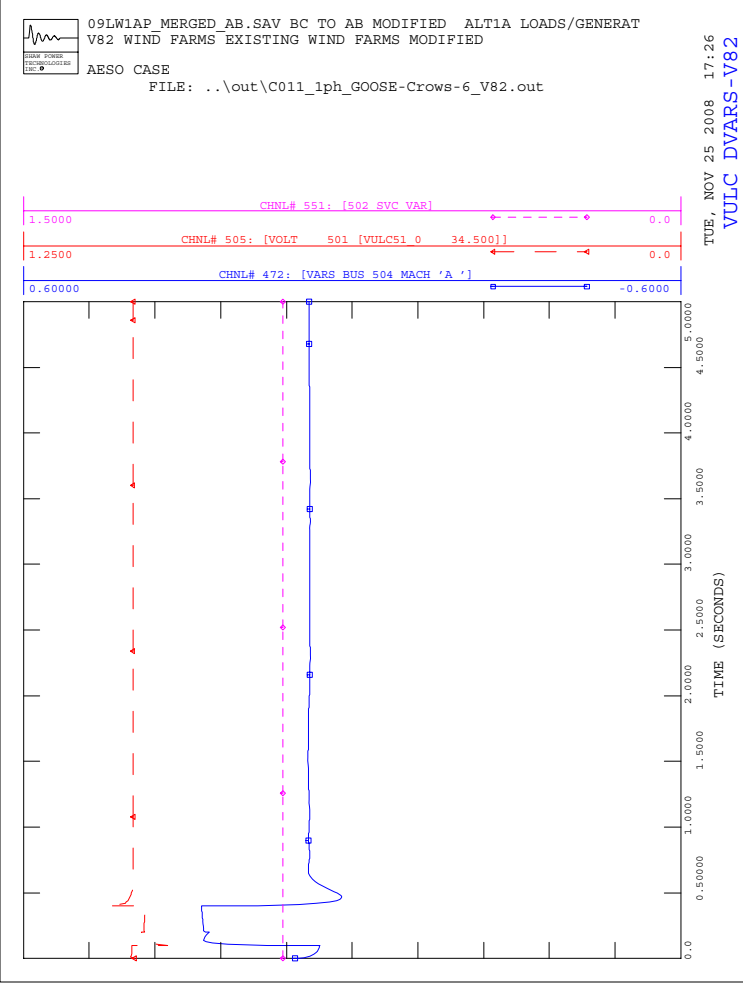
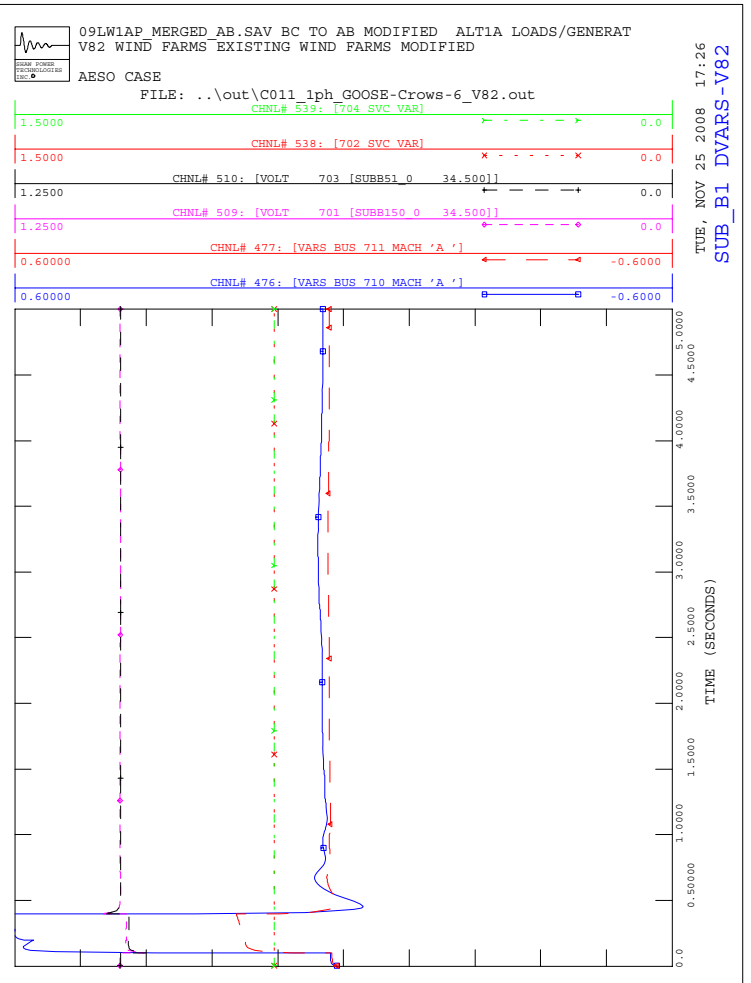
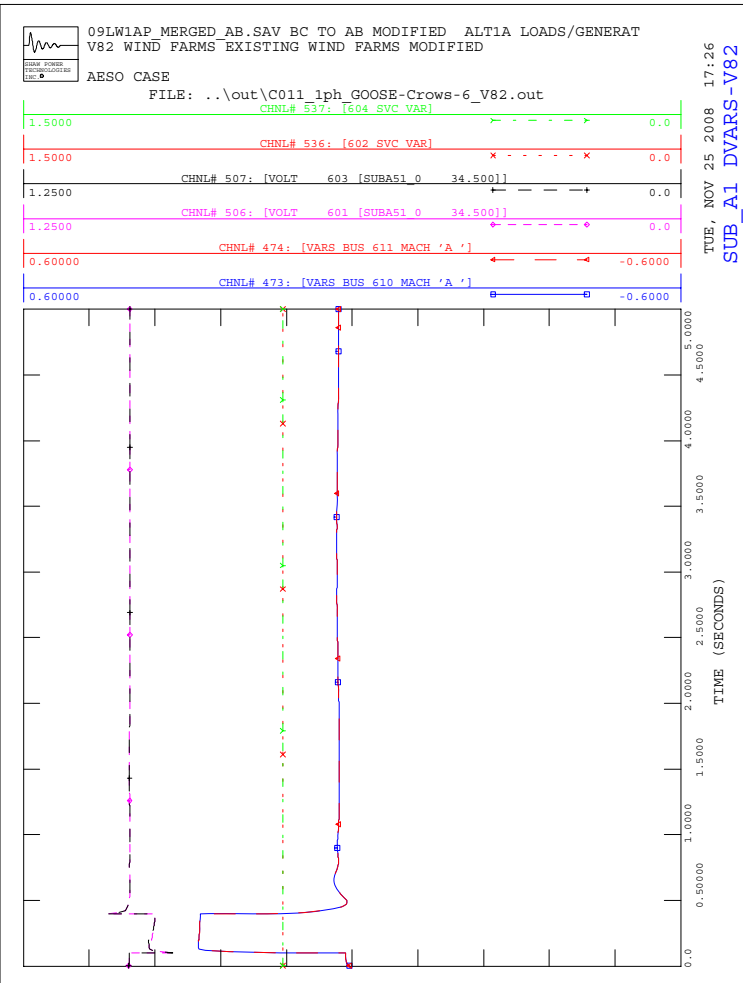
TUE, NOV 25 2008 17:26

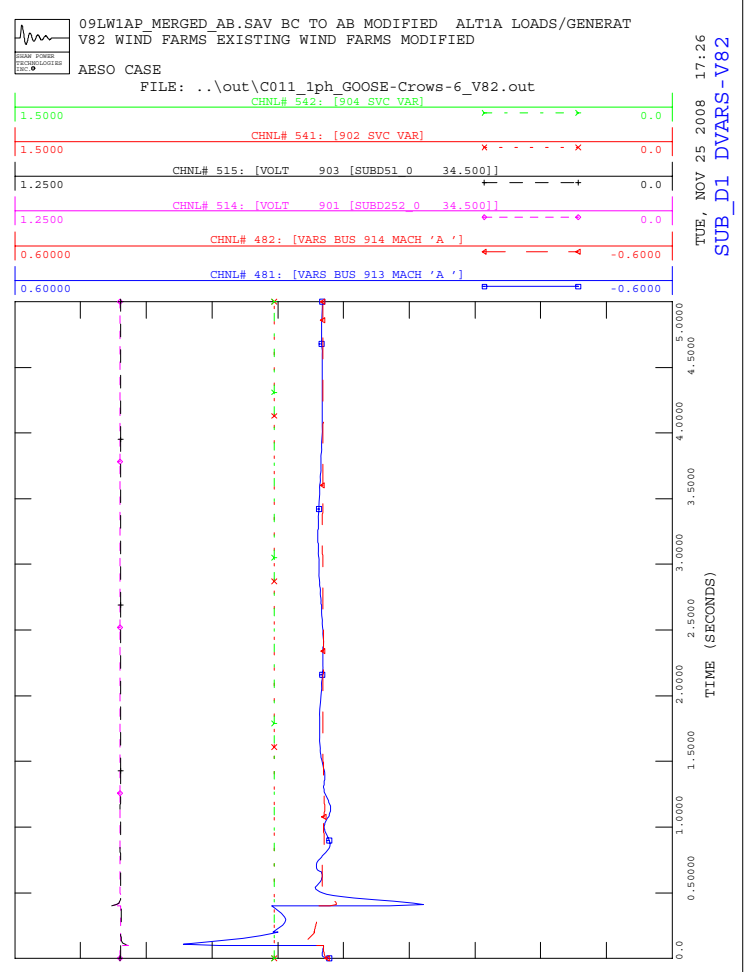
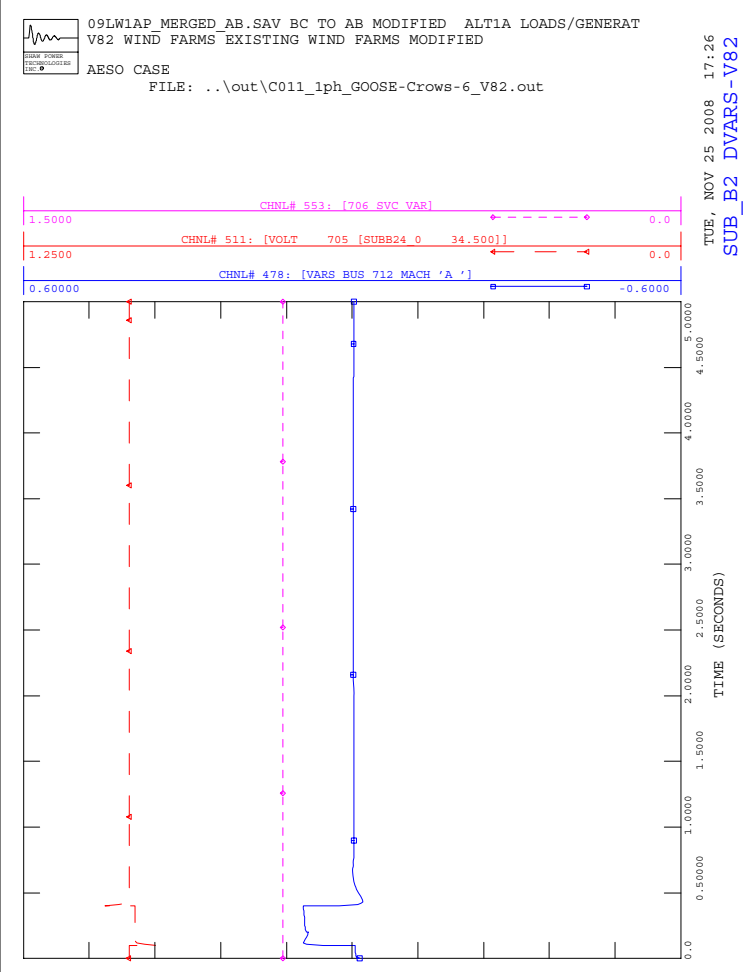
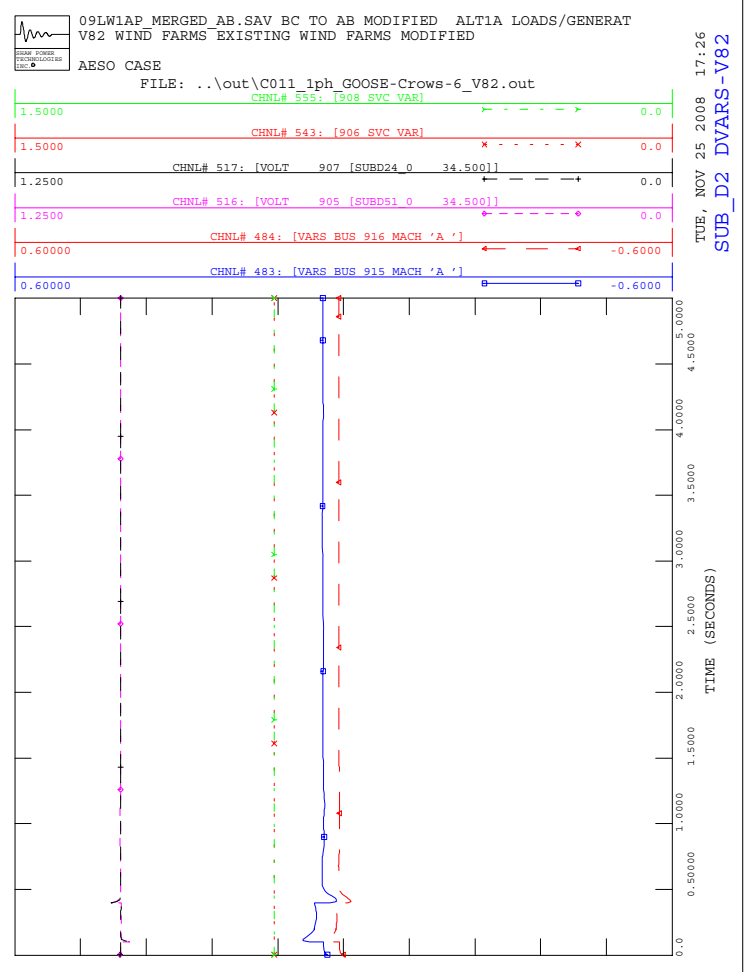
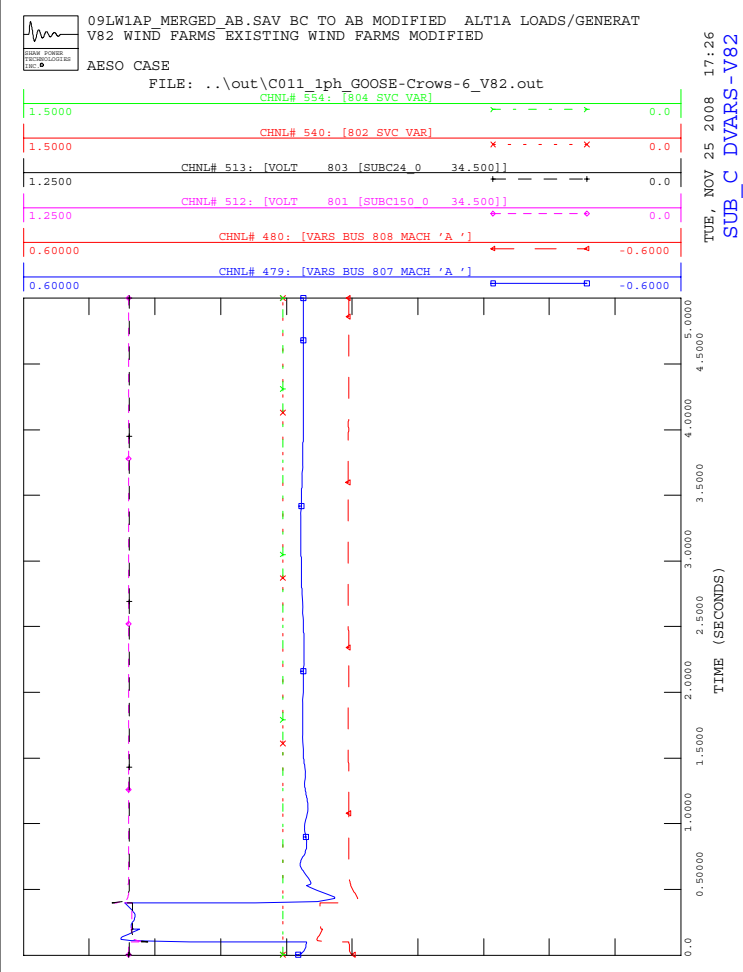


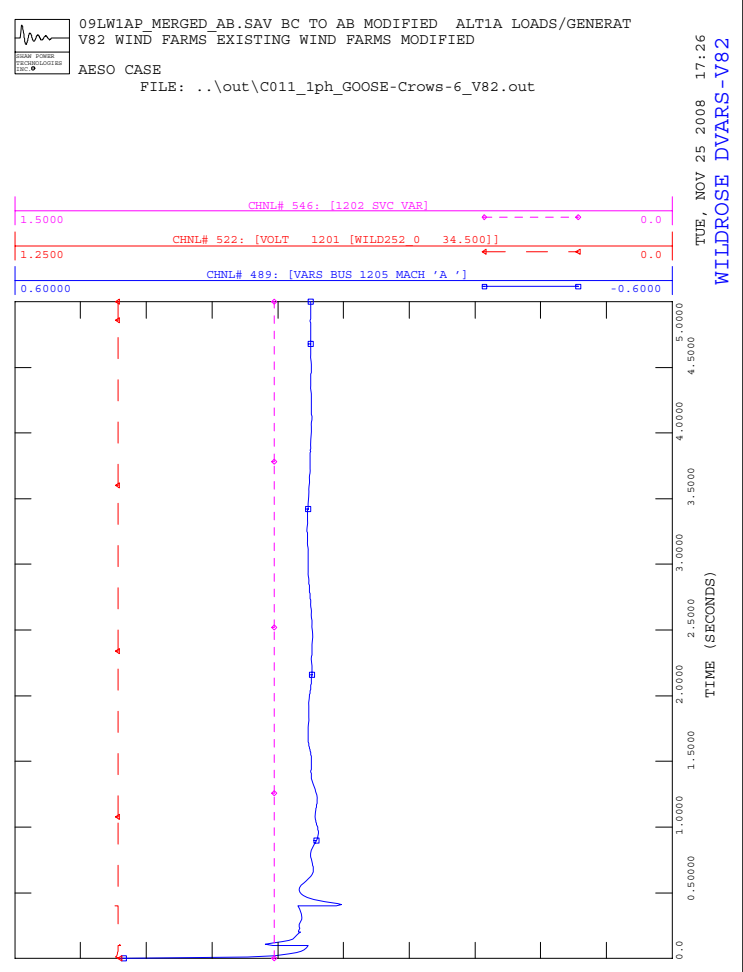
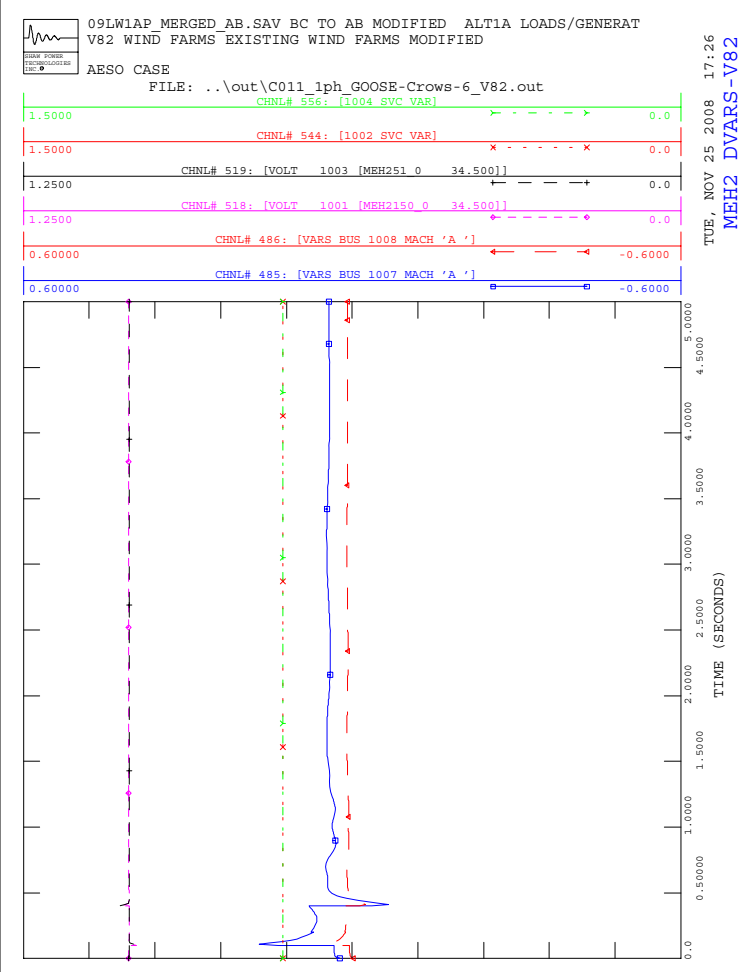
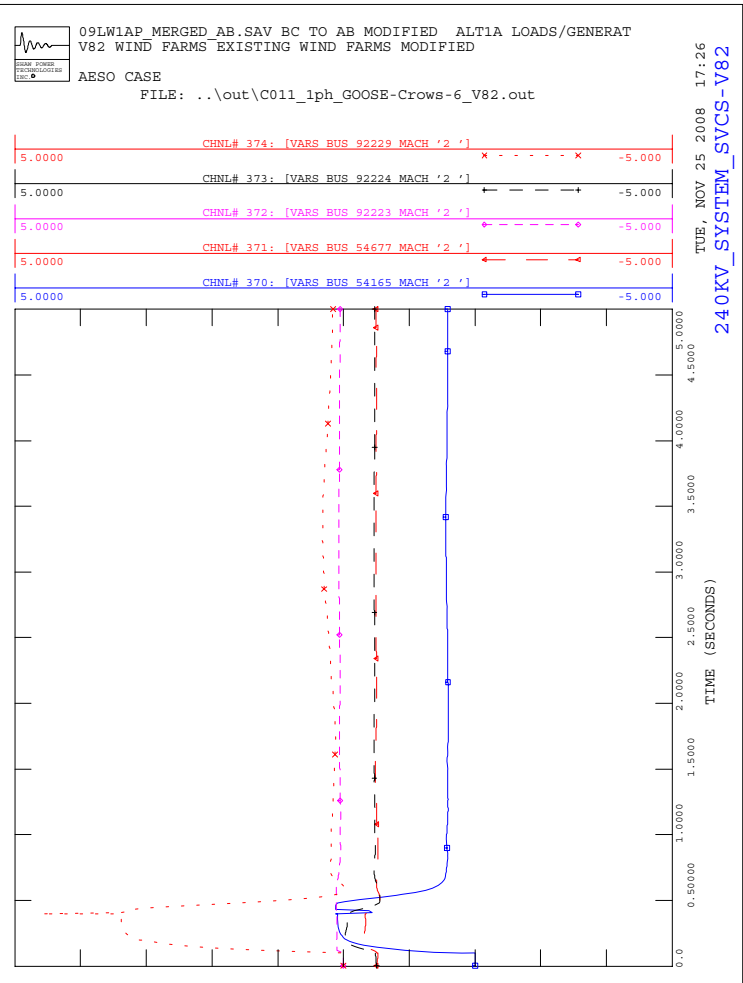
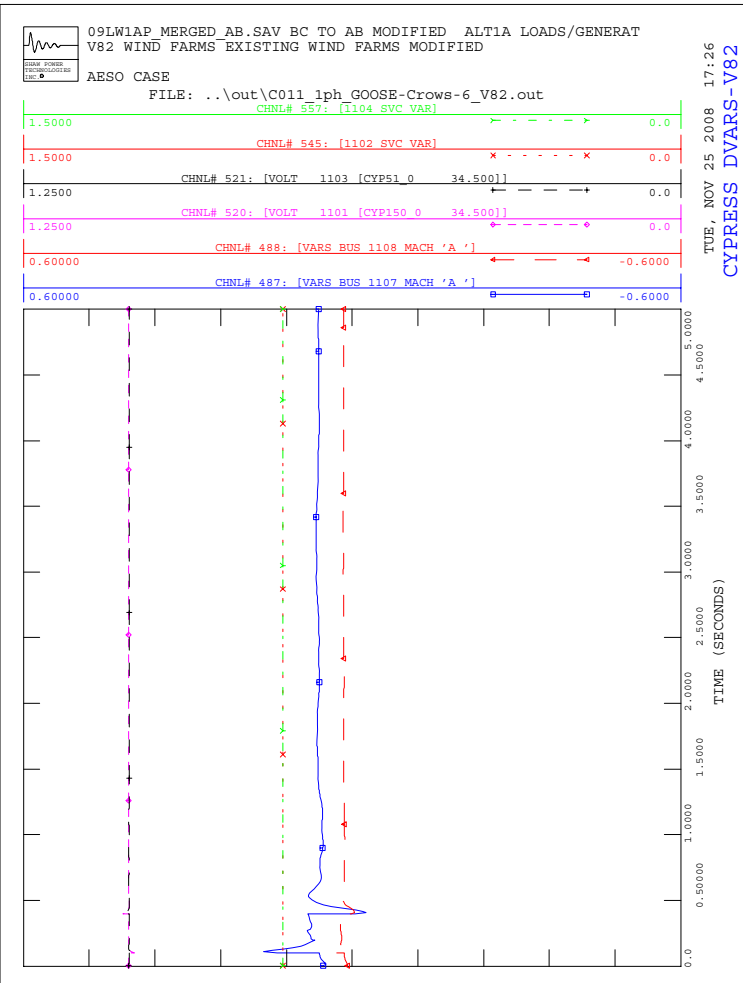












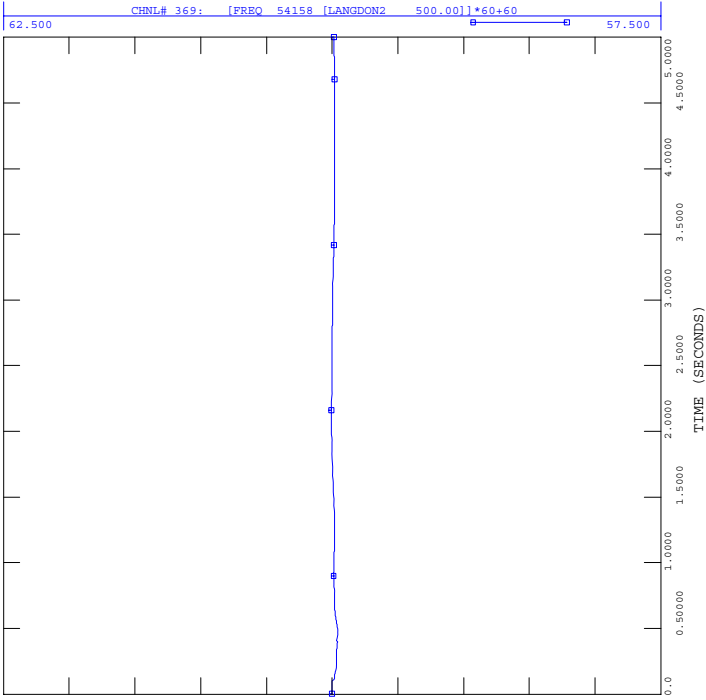


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

FILE: ..\out\C011_1ph_GOOSE-Crows-6_V82.out

TUE, NOV 25 2008 17:26
LANGDON_FRQ-V82

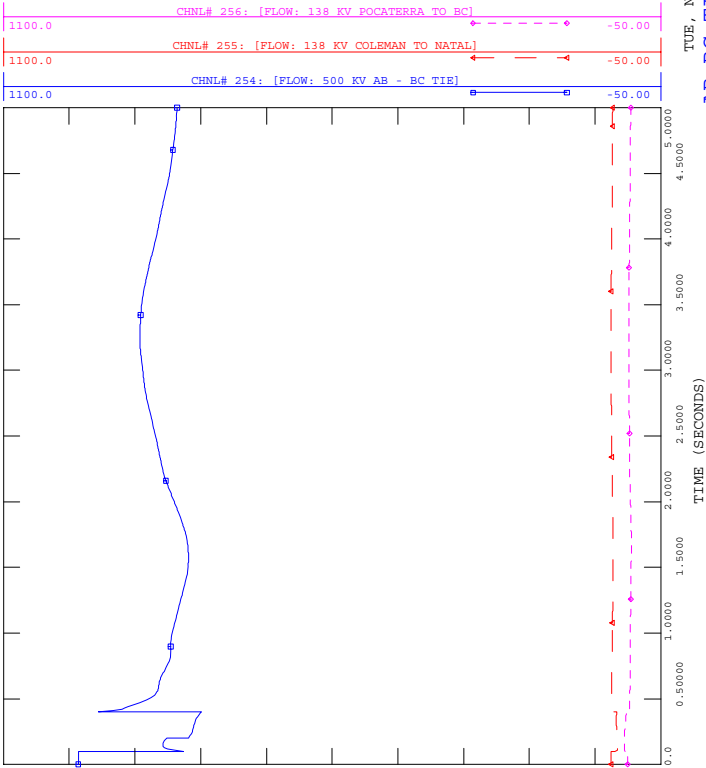


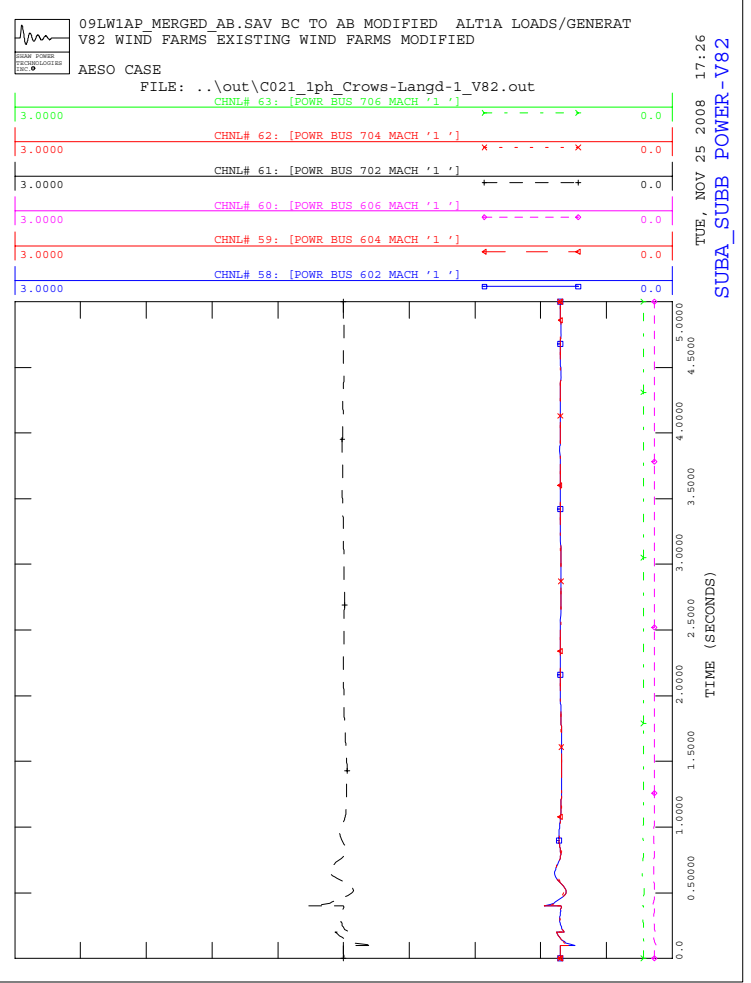
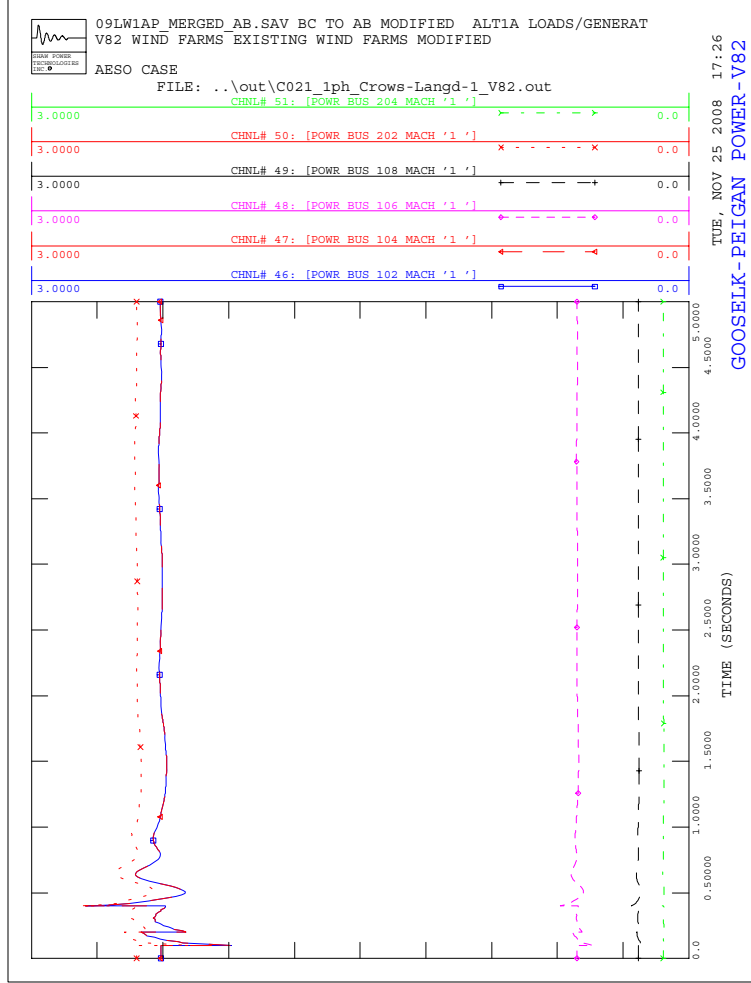
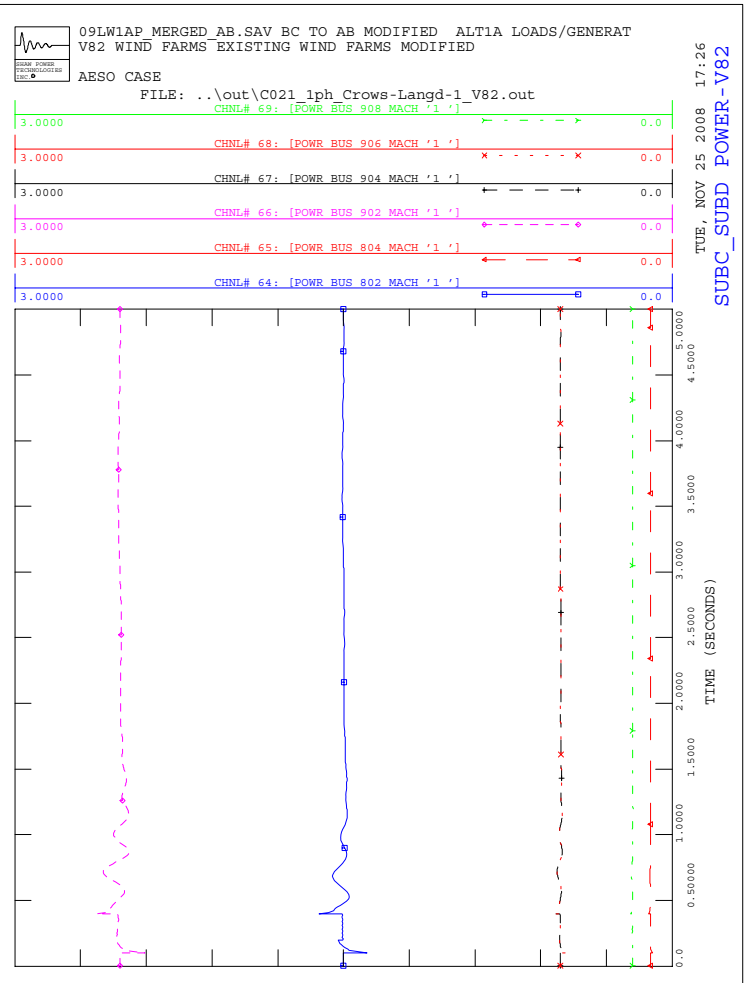
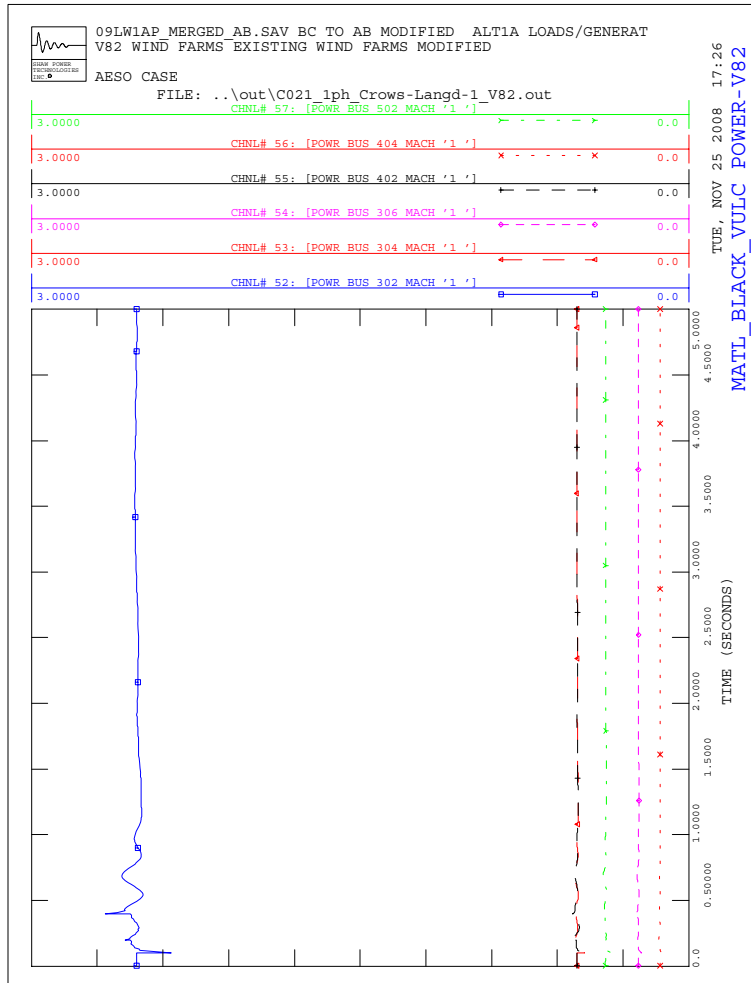
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED

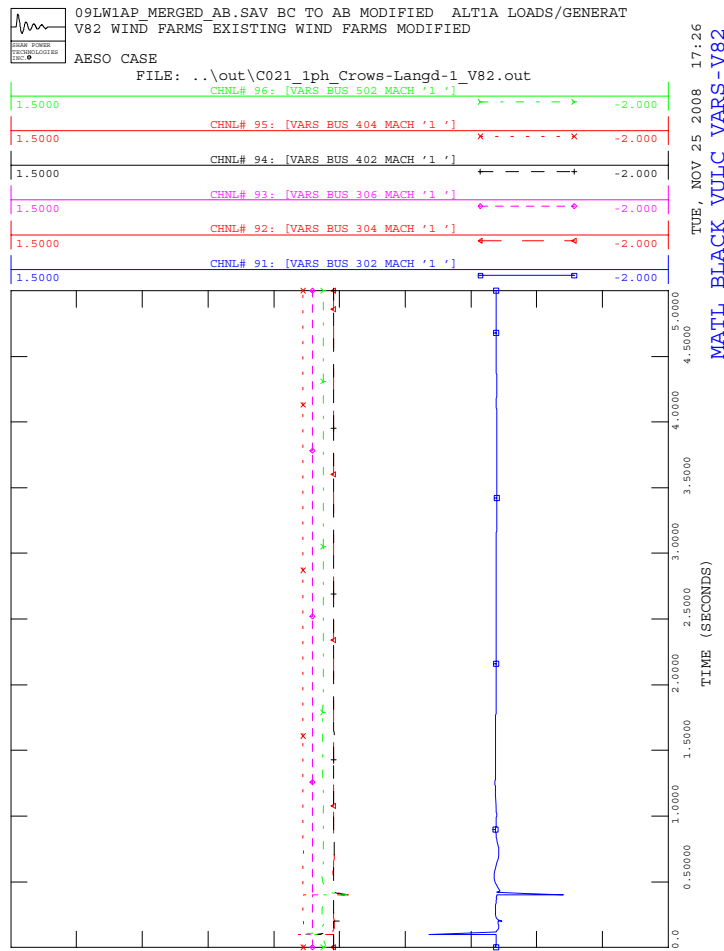
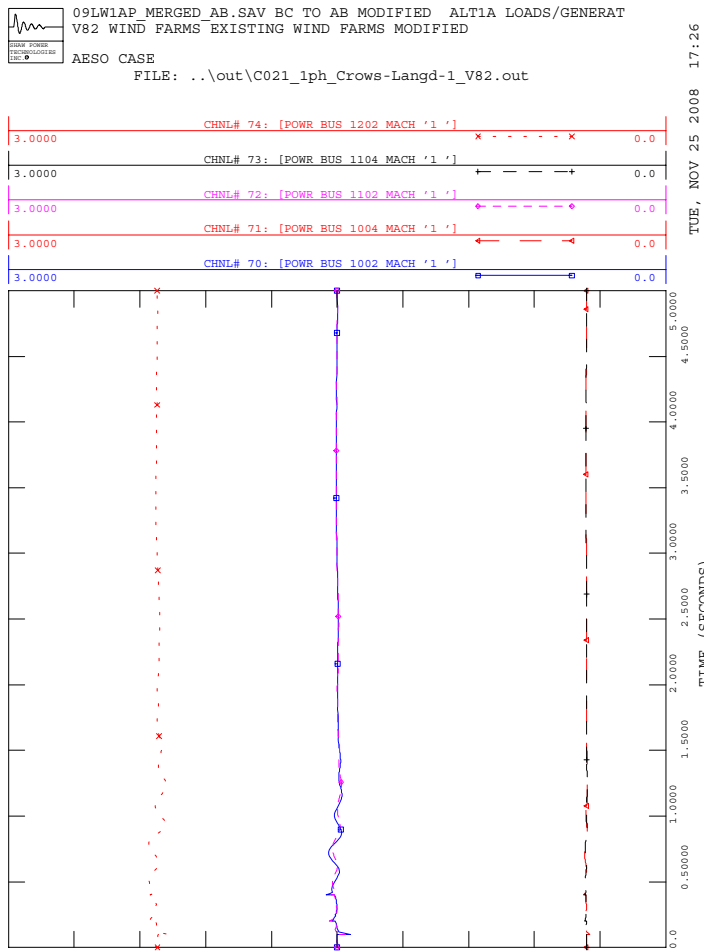
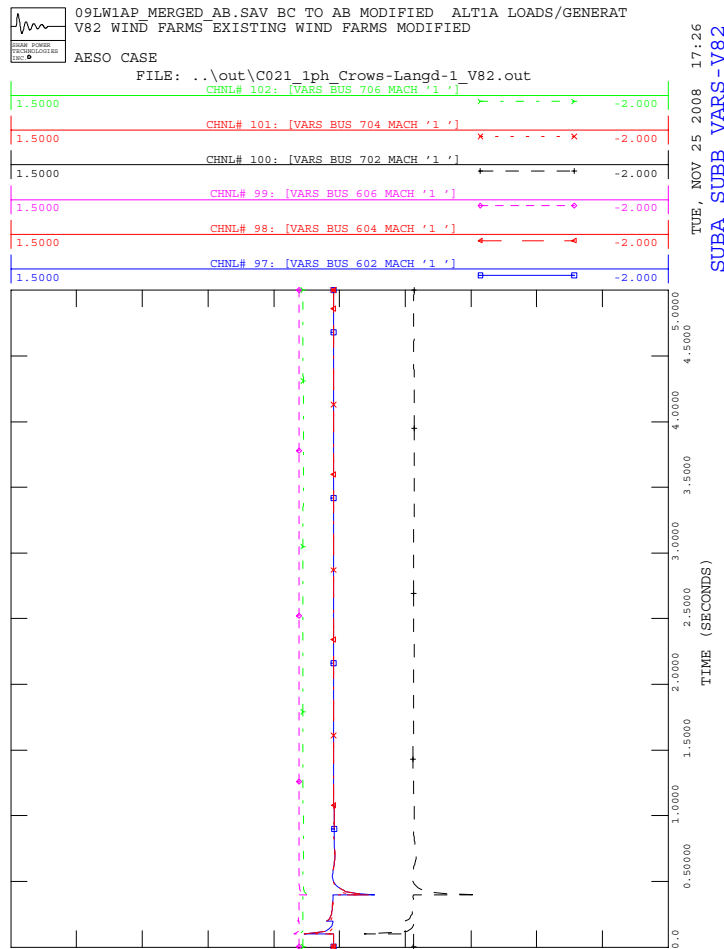
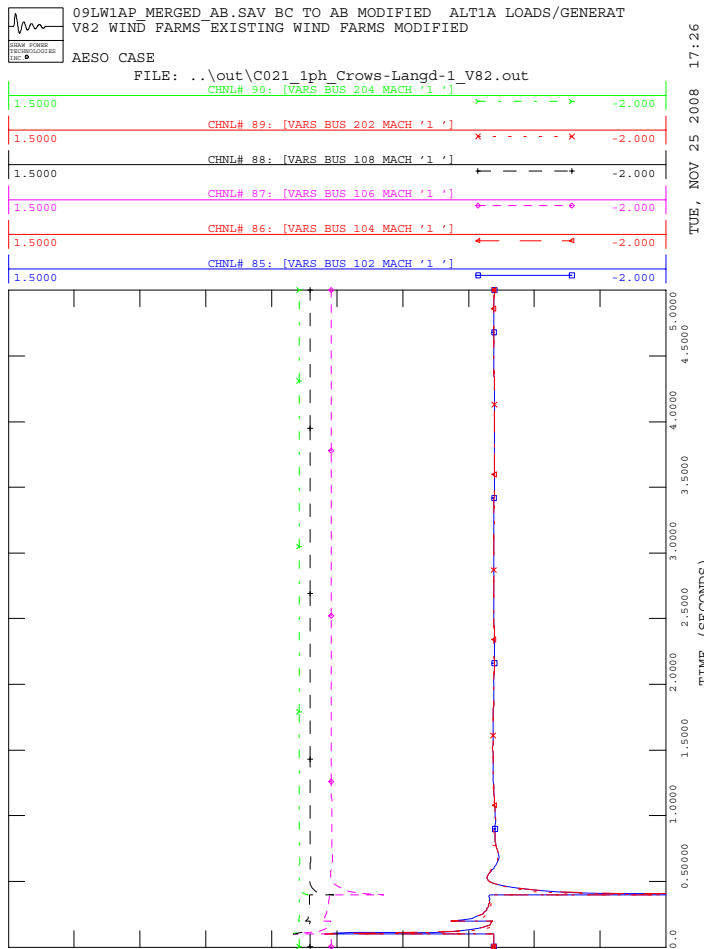
ABSO CASE

FILE: ..\out\C011_1ph_GOOSE-Crows-6_V82.out

TUE, NOV 25 2008 17:26
AB_BC_TIE_FLOWS-V82





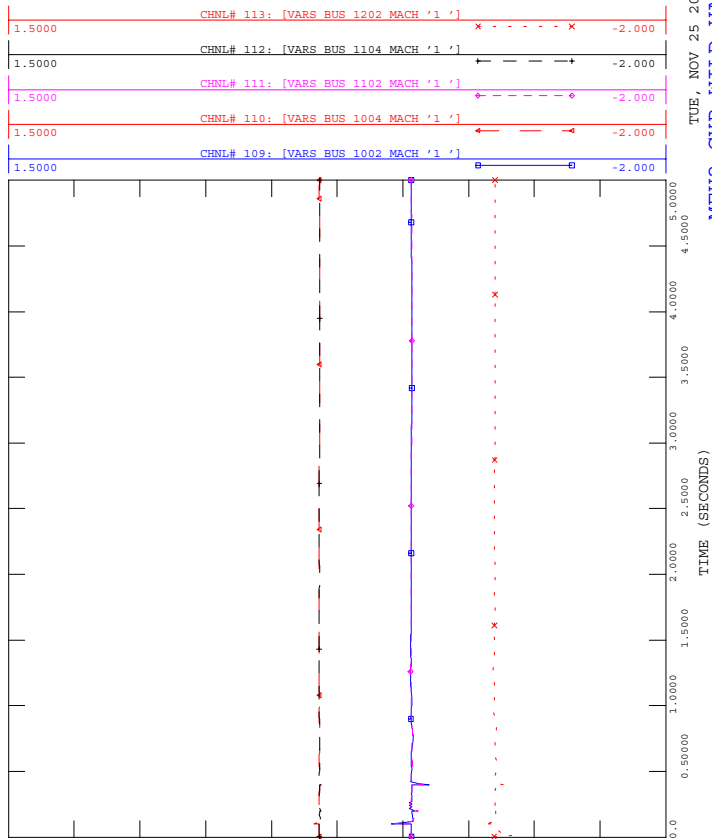


09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



ABSO CASE

FILE: ..\out\C021_1ph_Crows-Langd-1_V82.out



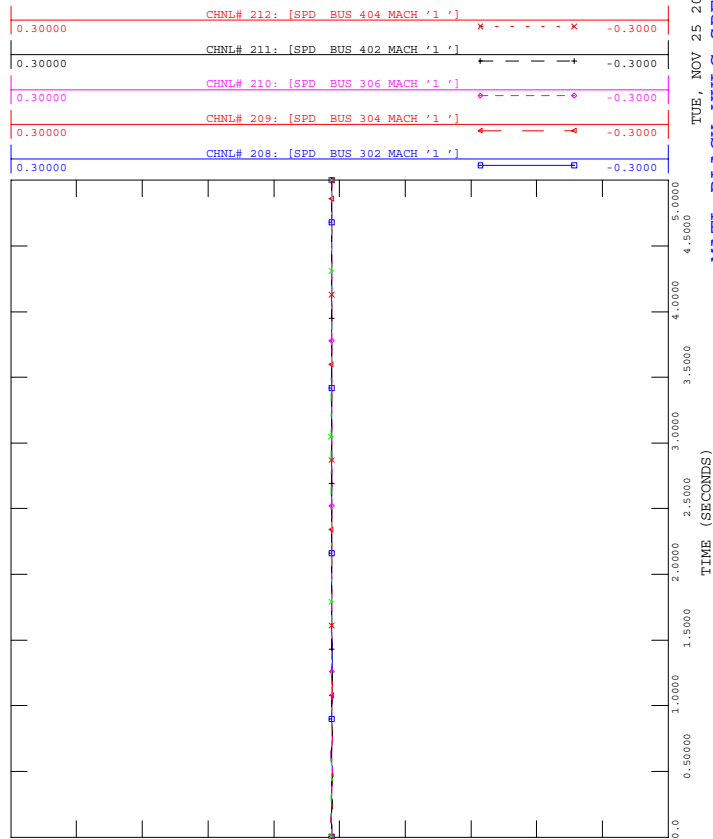
TUE, NOV 25 2008 17:26
MEH2_CYP_WILD_VARS-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



ABSO CASE

FILE: ..\out\C021_1ph_Crows-Langd-1_V82.out



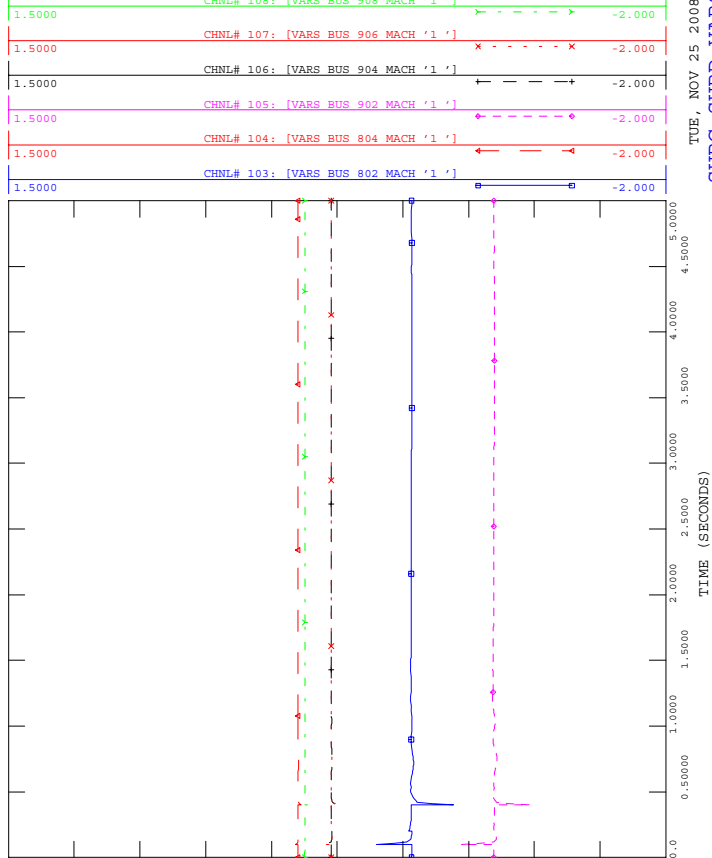
TUE, NOV 25 2008 17:26
MAIL_BLACK_VULC_SPEED-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED



ABSO CASE

FILE: ..\out\C021_1ph_Crows-Langd-1_V82.out



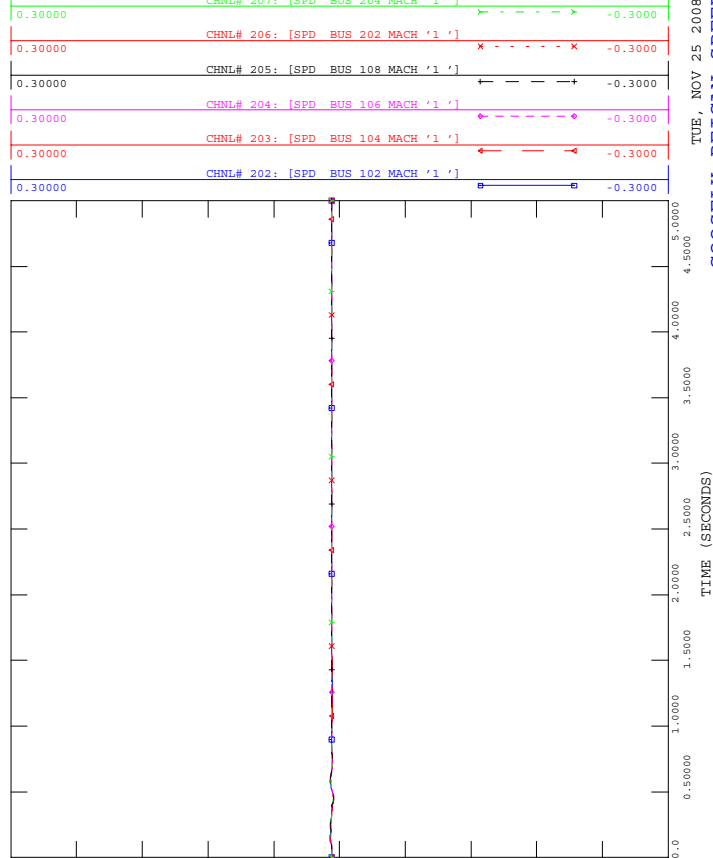
TUE, NOV 25 2008 17:26
SUBC_SUBD_VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

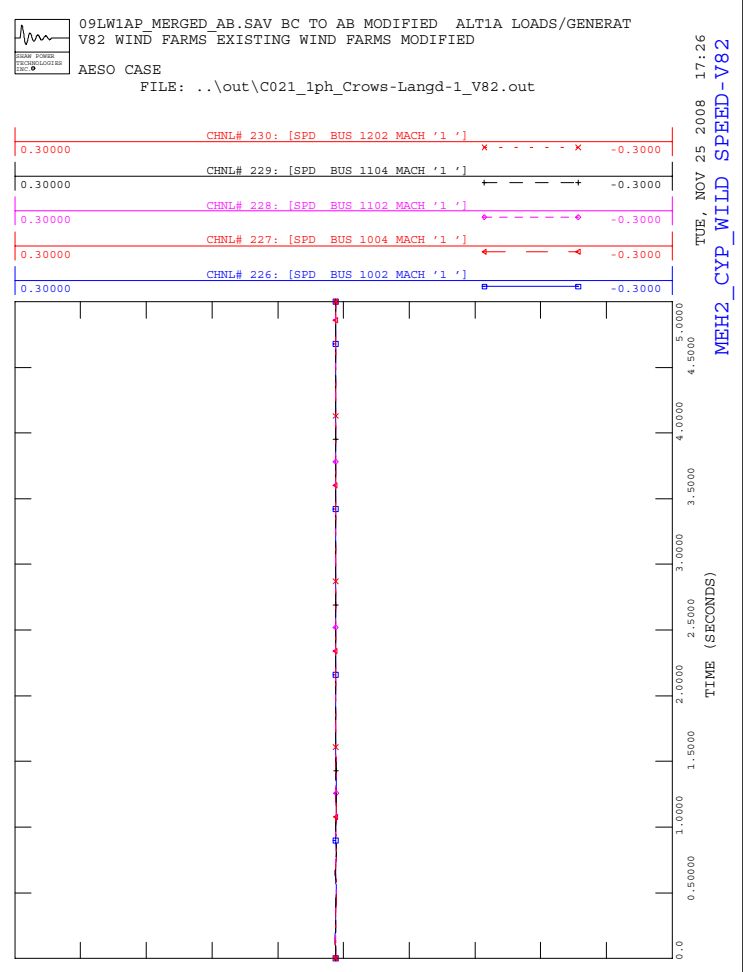
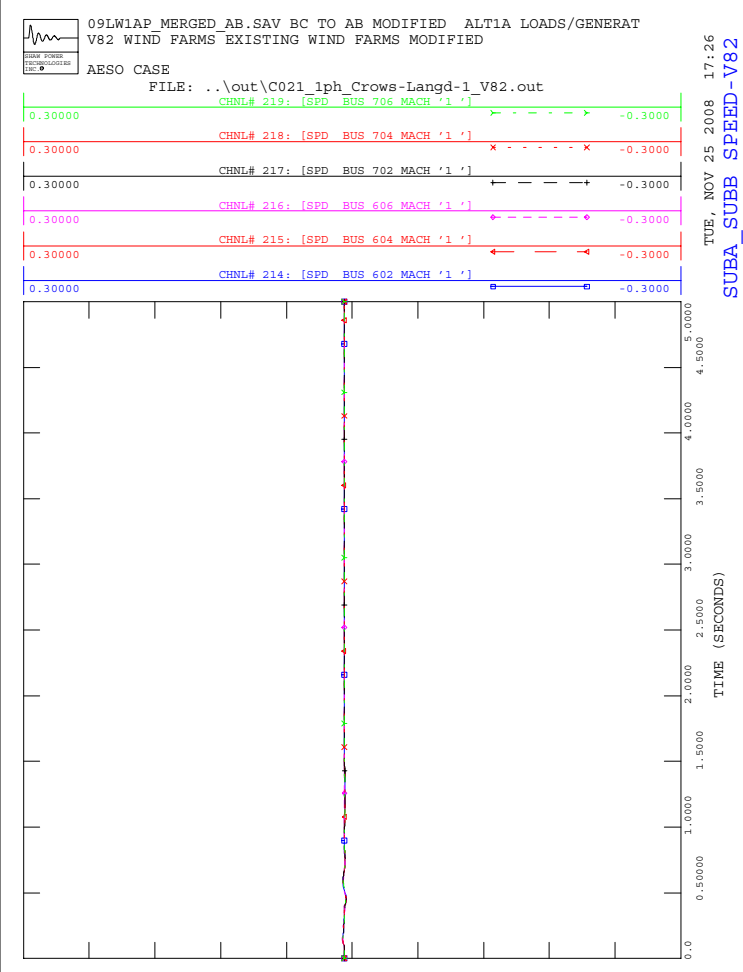
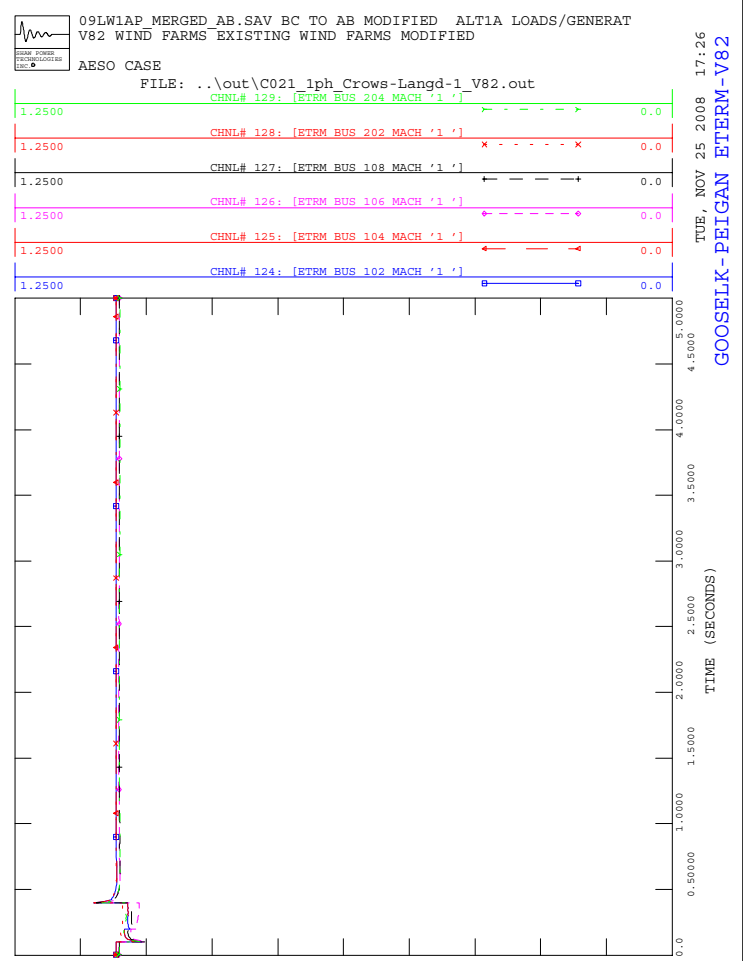
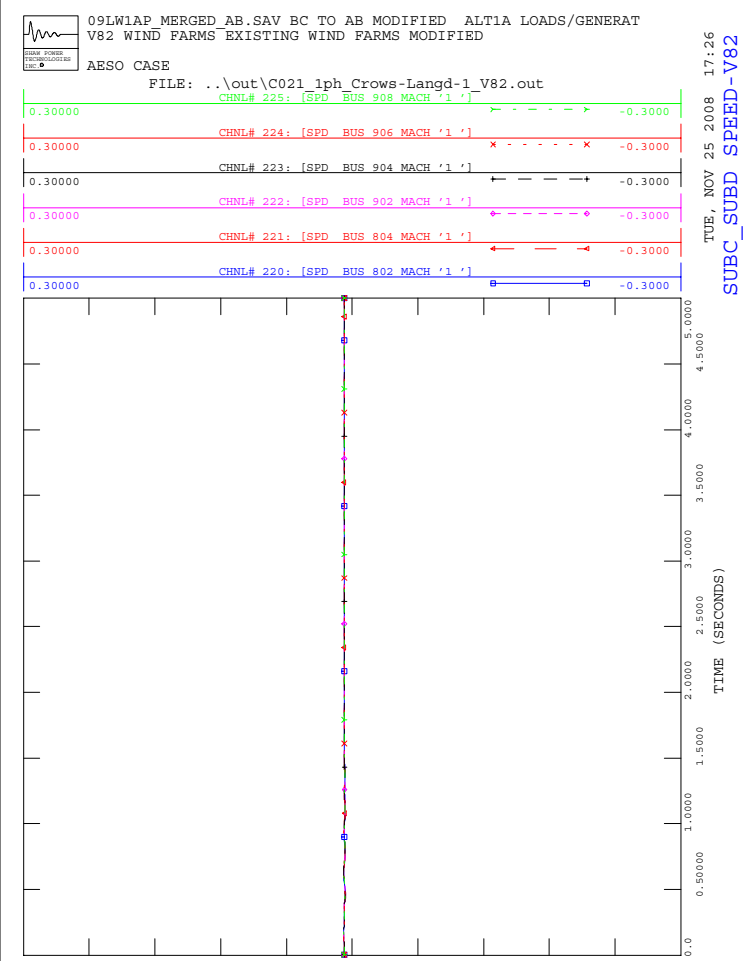


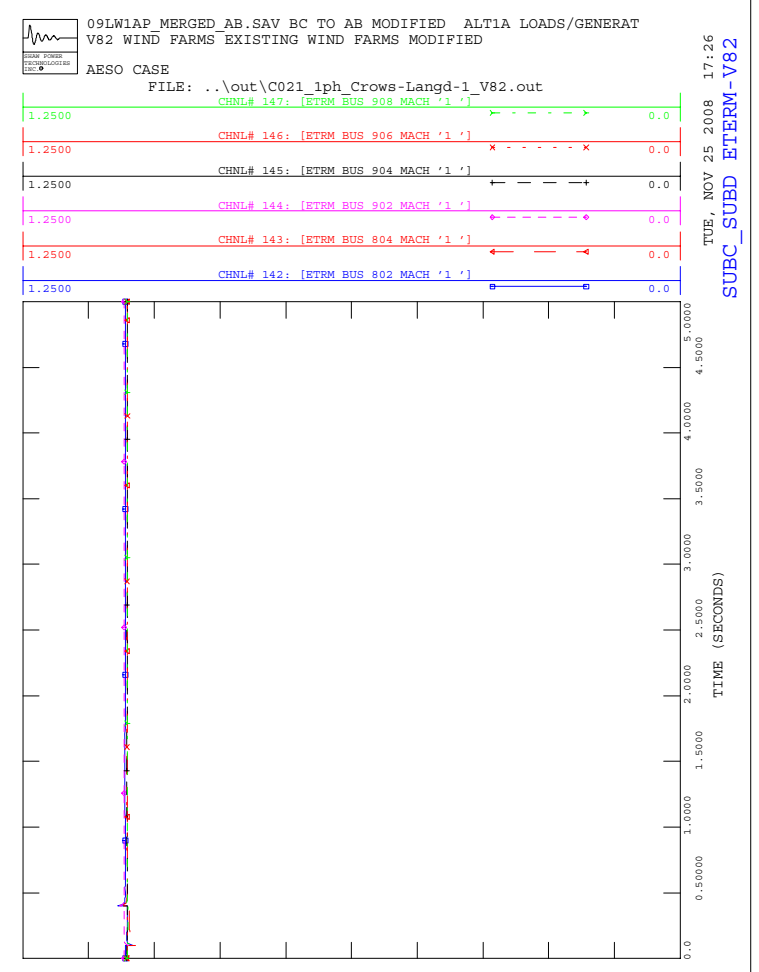
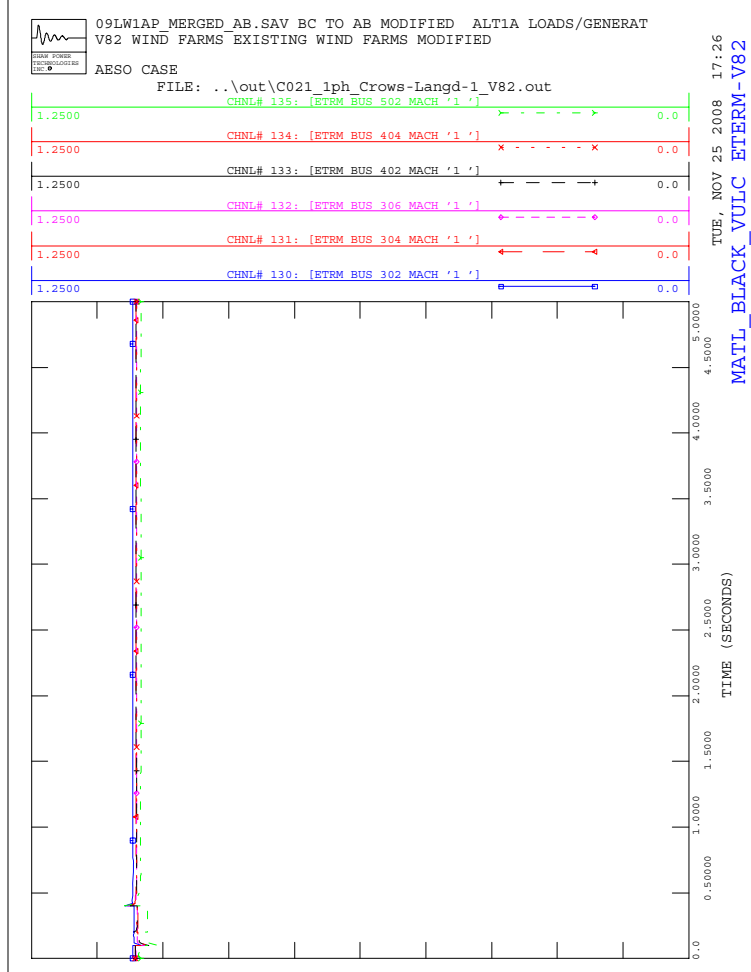
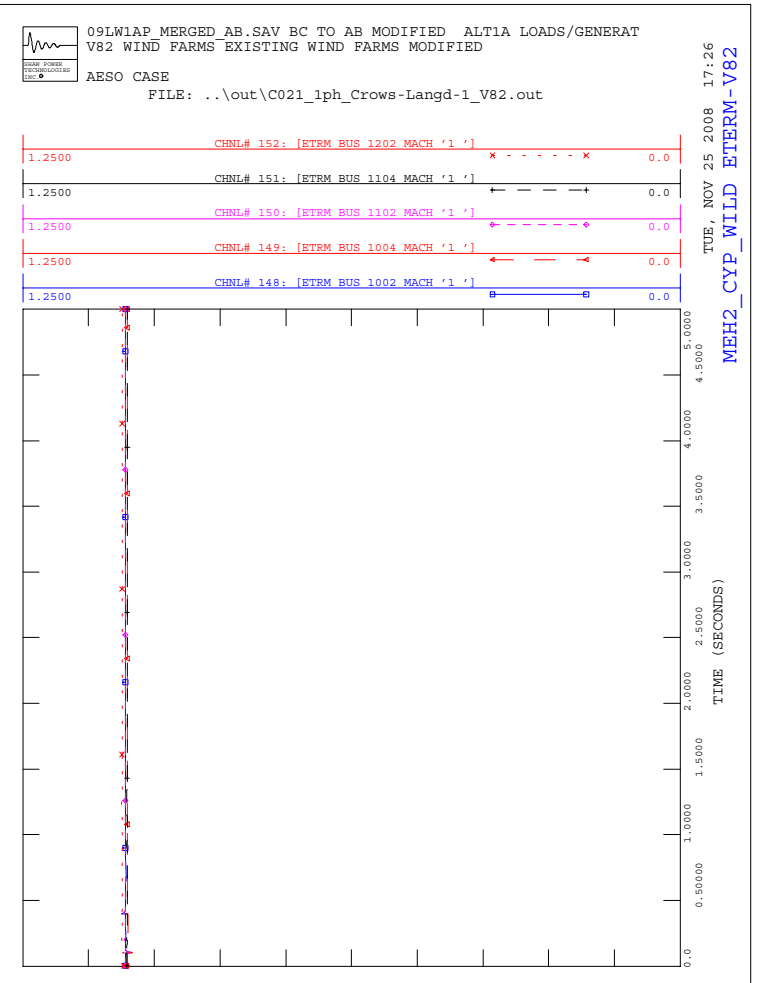
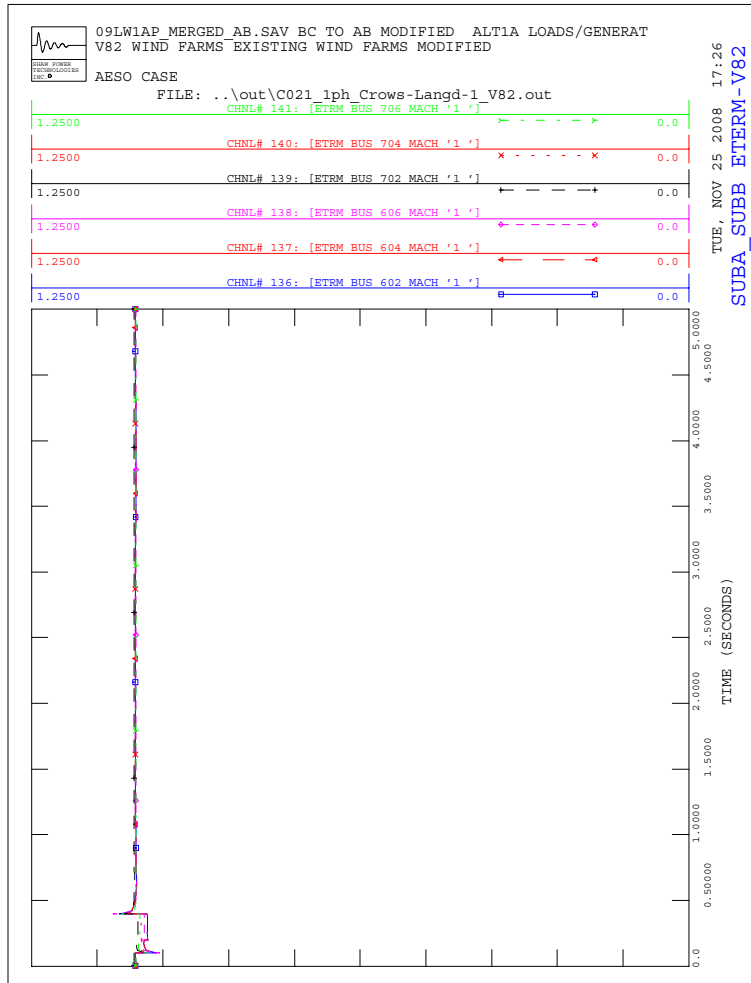
ABSO CASE

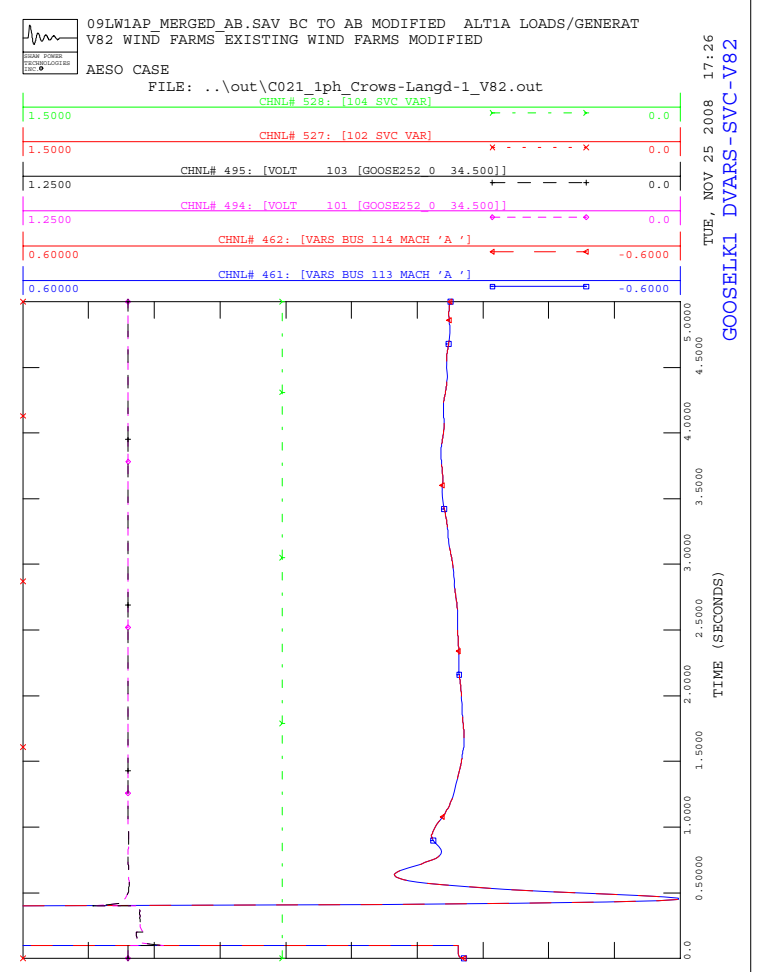
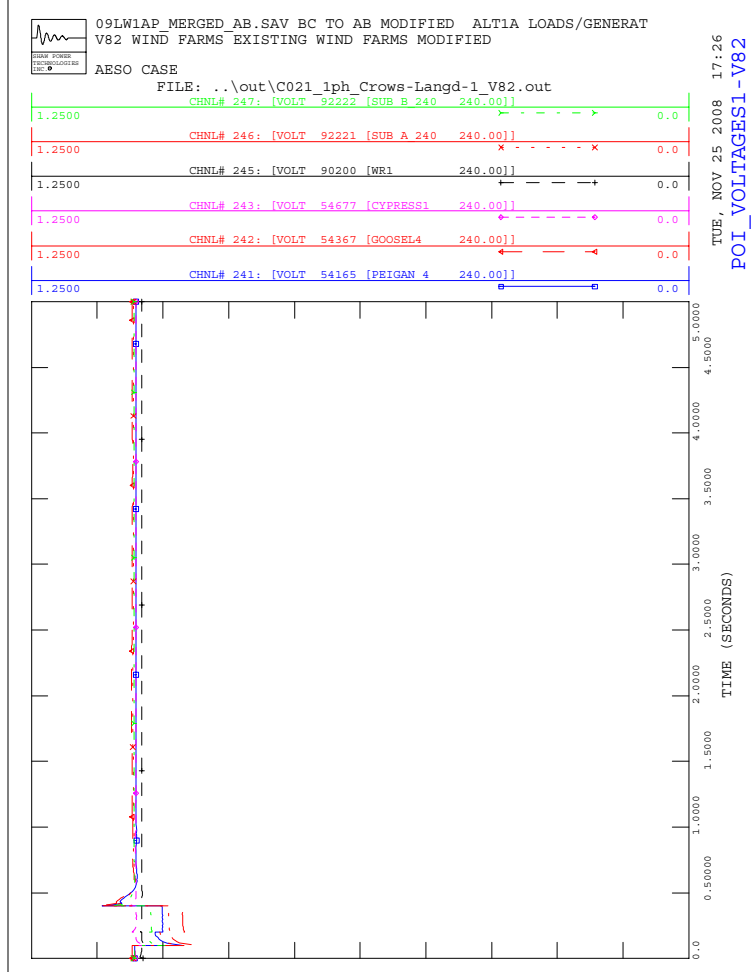
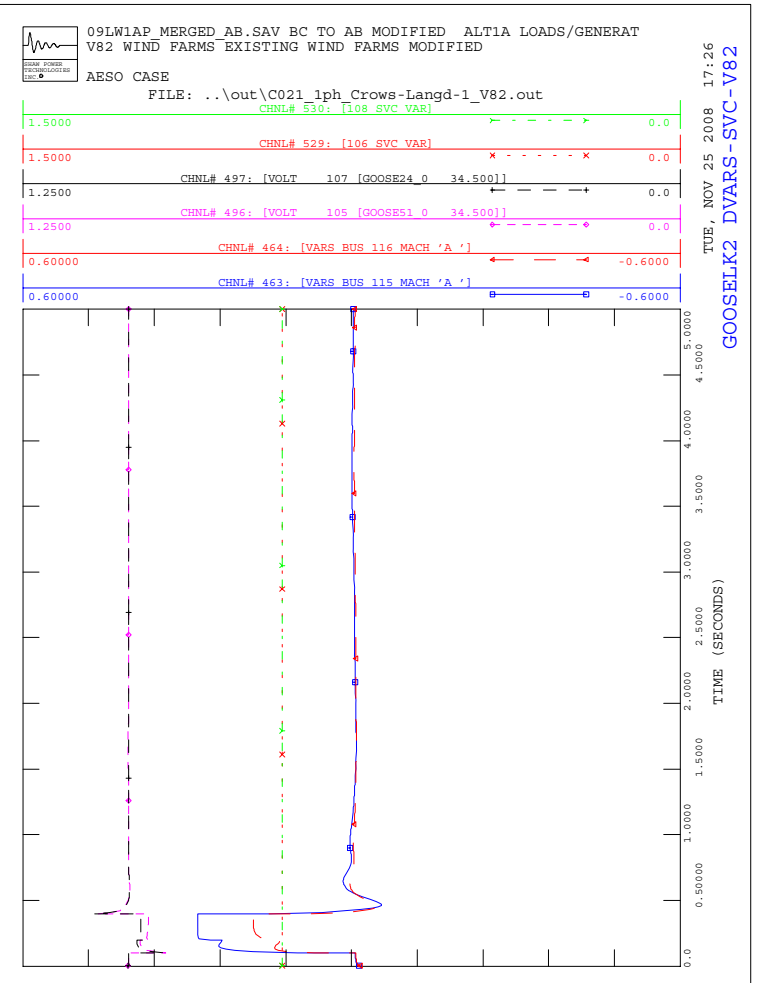
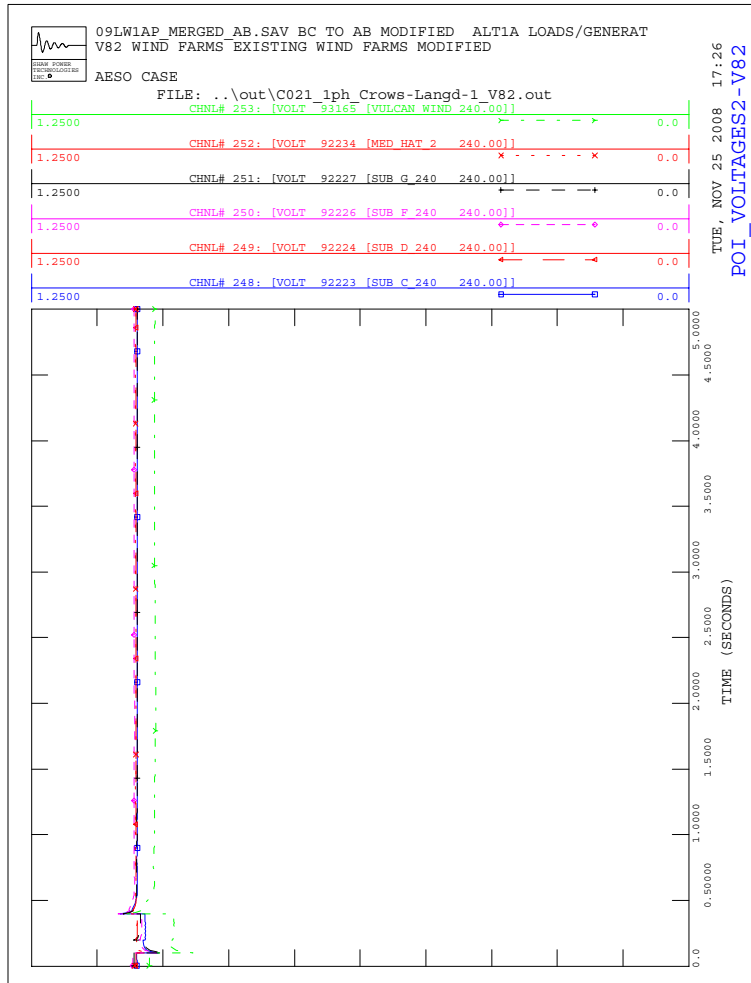
FILE: ..\out\C021_1ph_Crows-Langd-1_V82.out

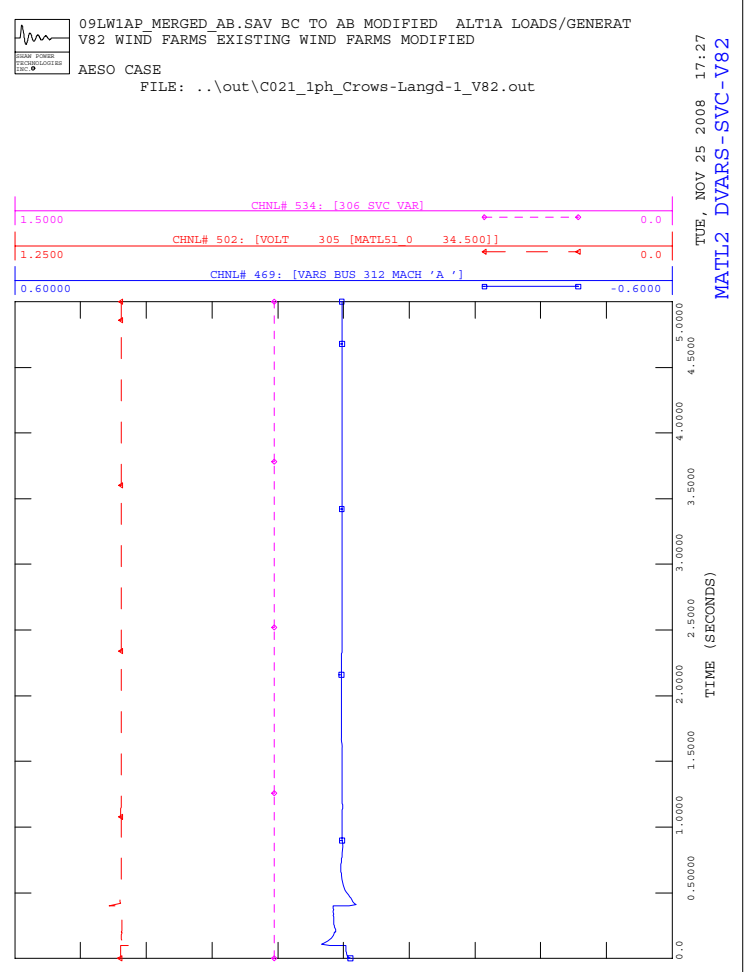
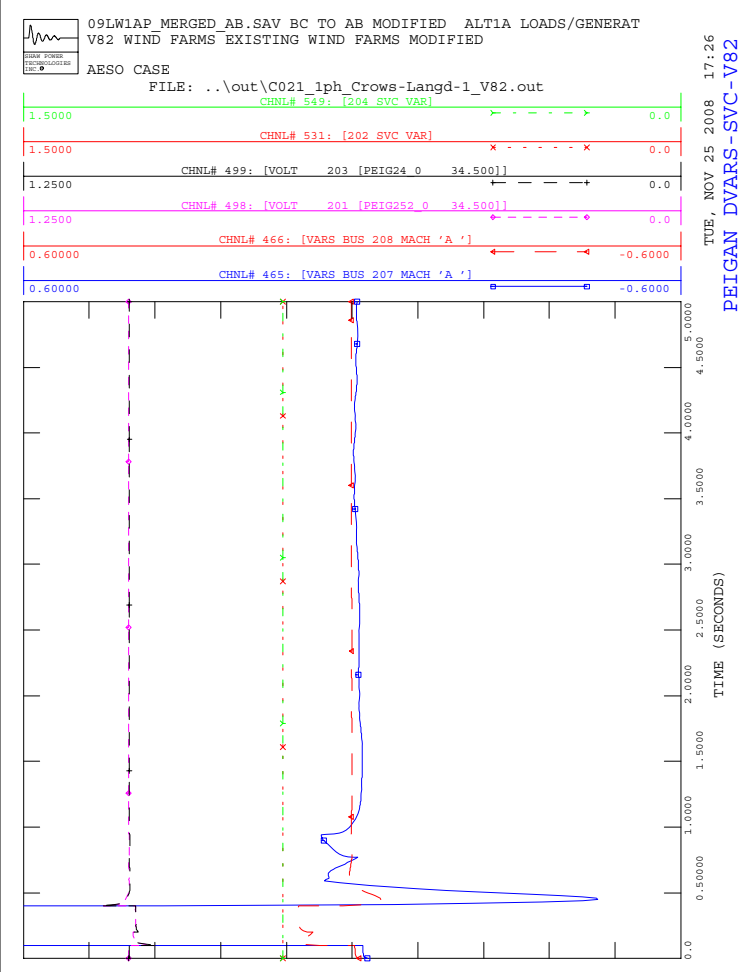
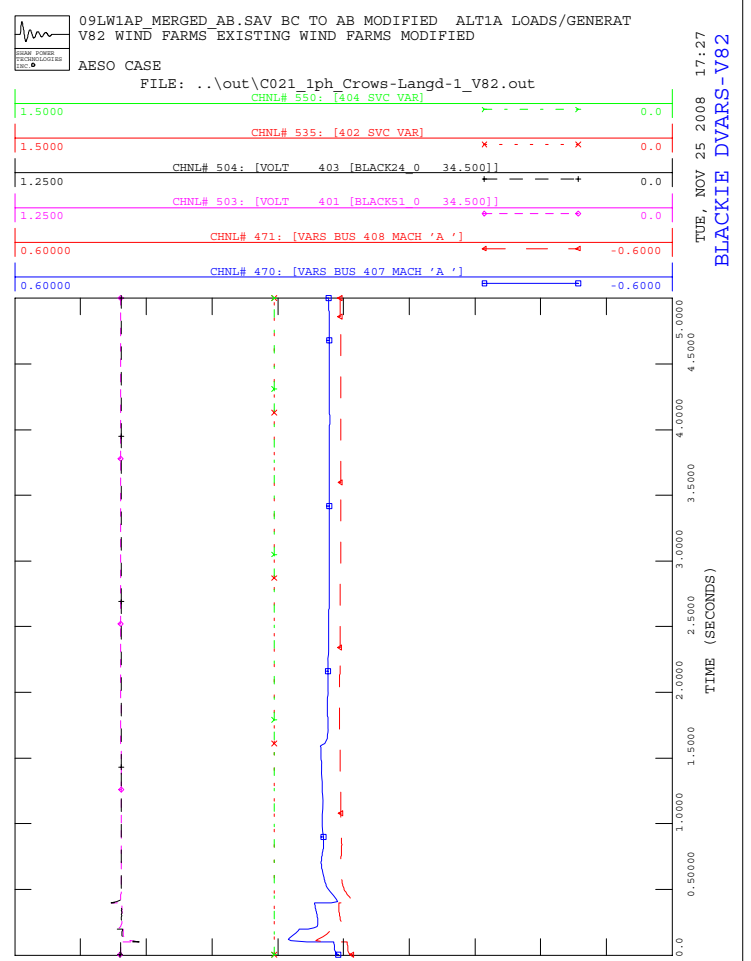
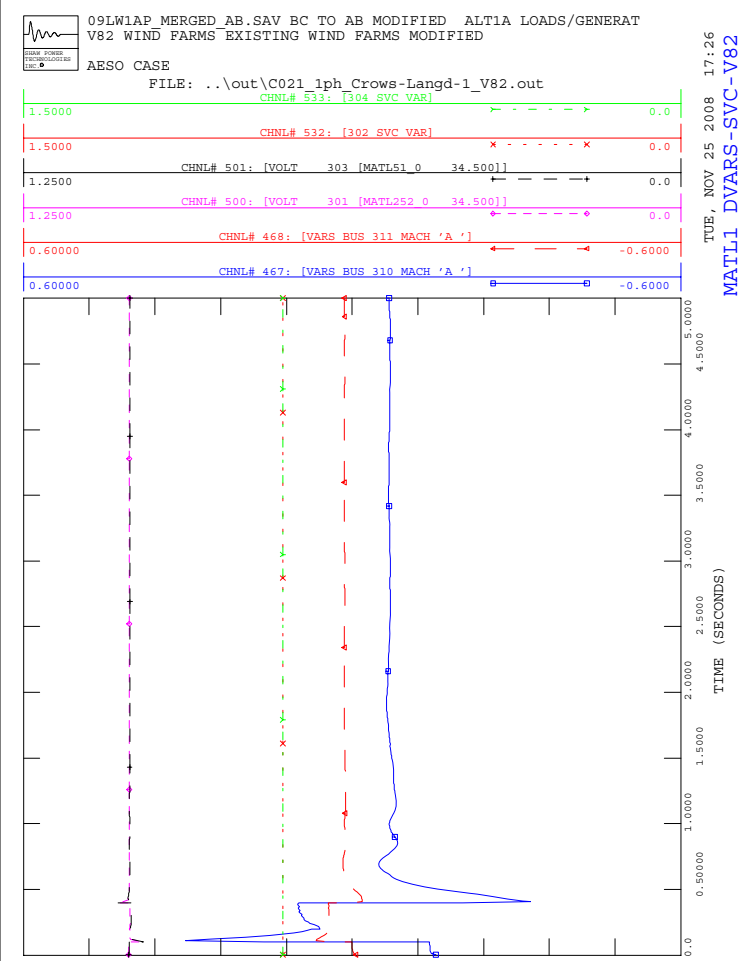


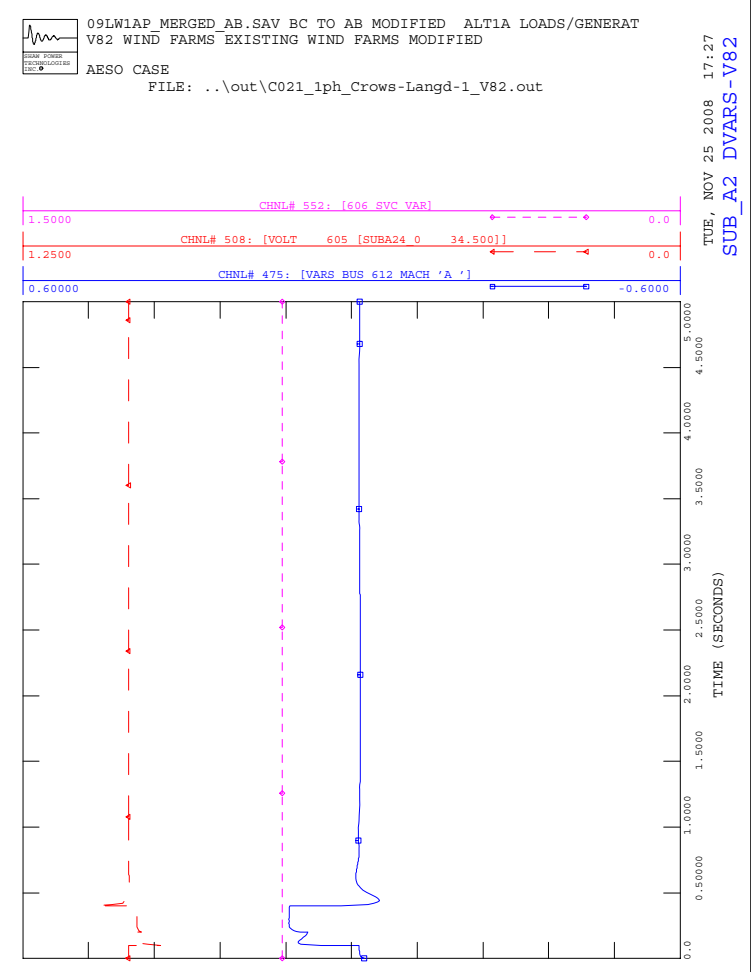
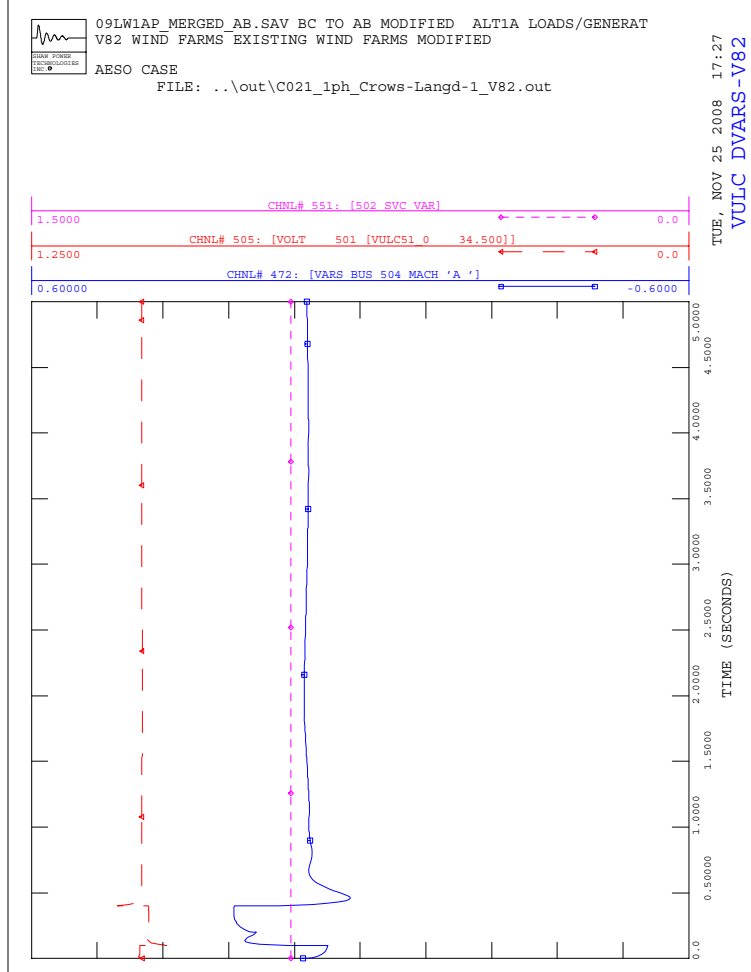
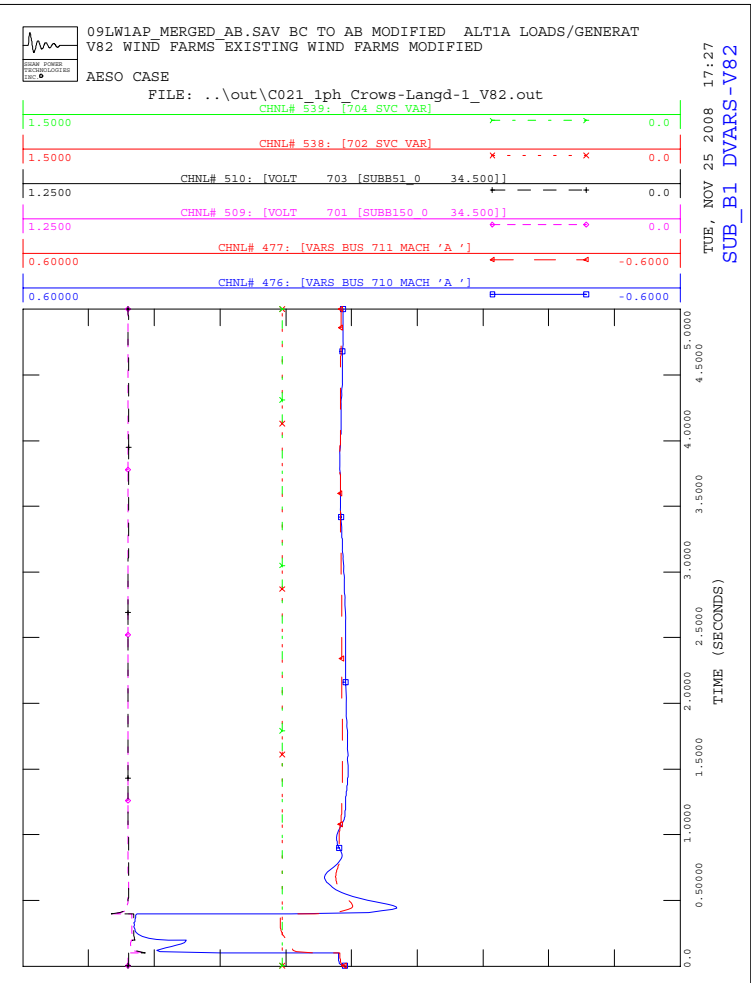
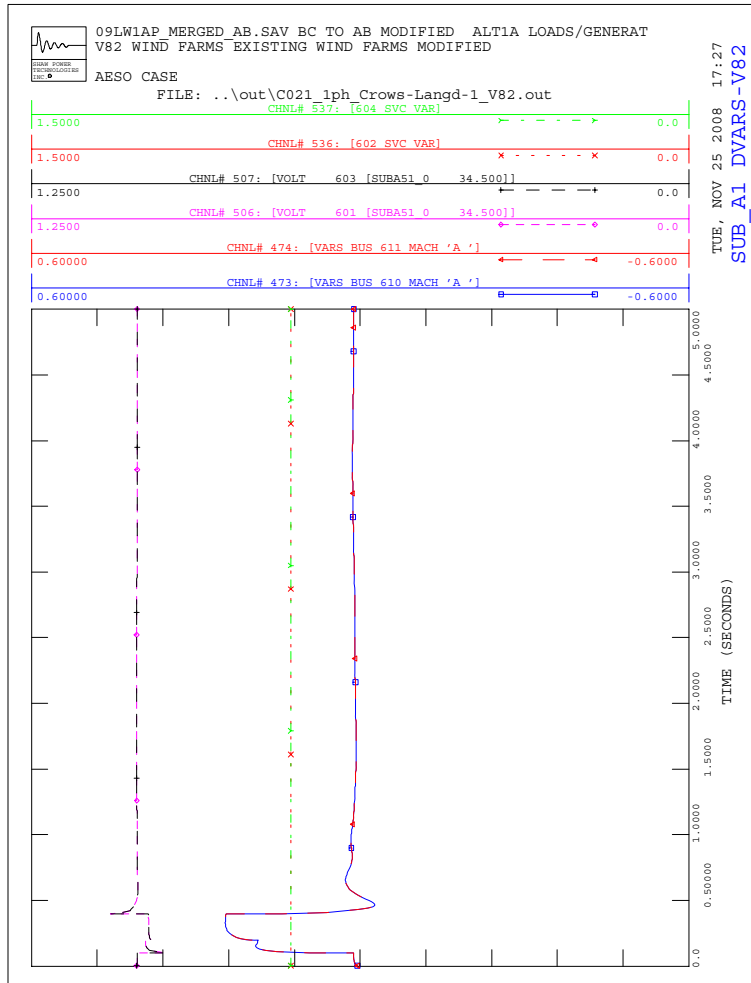
TUE, NOV 25 2008 17:26
GOOSELK-PEIGAN_SPEED-V82





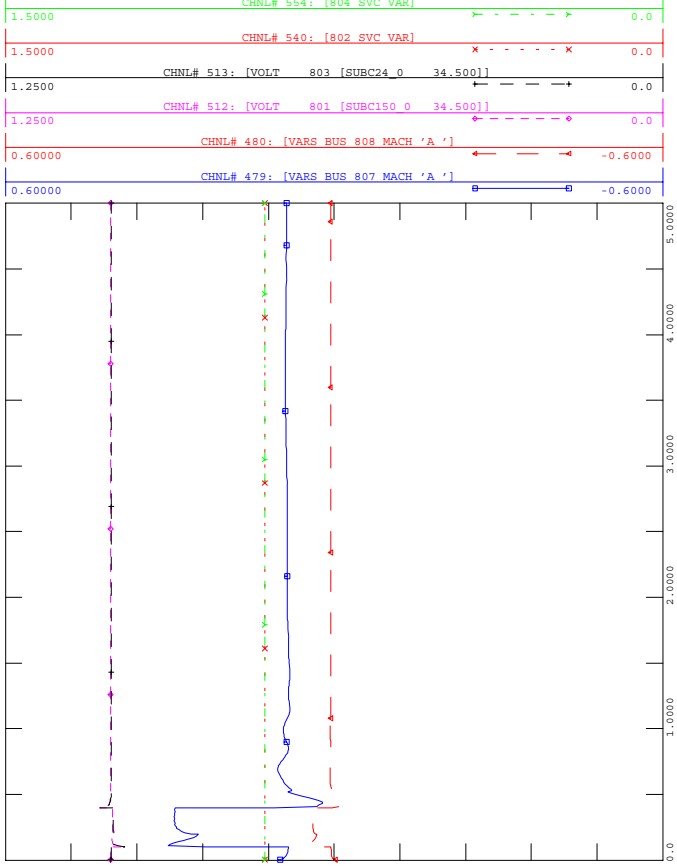






09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

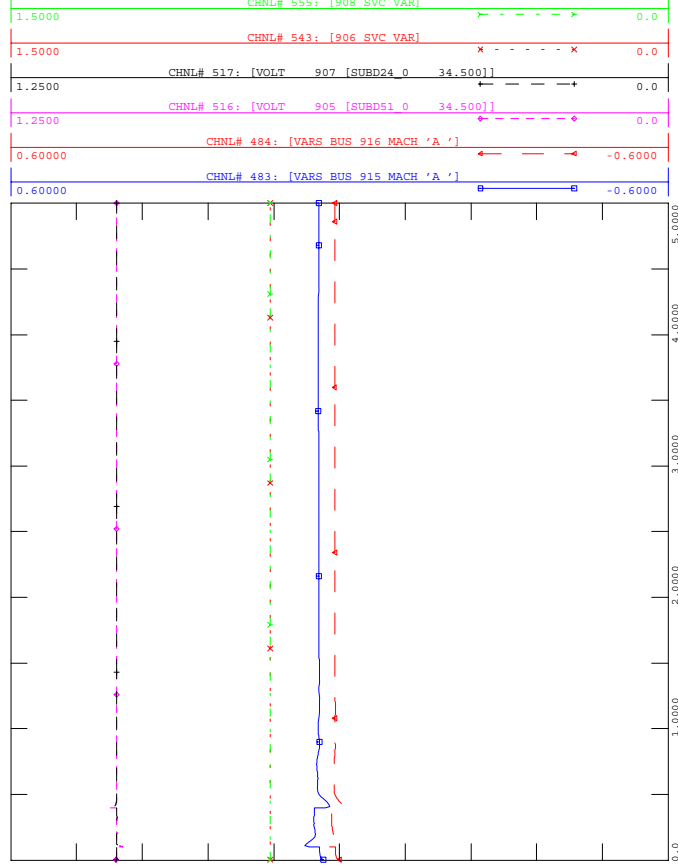
FILE: ..\out\C021_1ph_Crows-Langd-1_V82.out



TUE, NOV 25 2008 17:27
 SUB_C DVARS-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

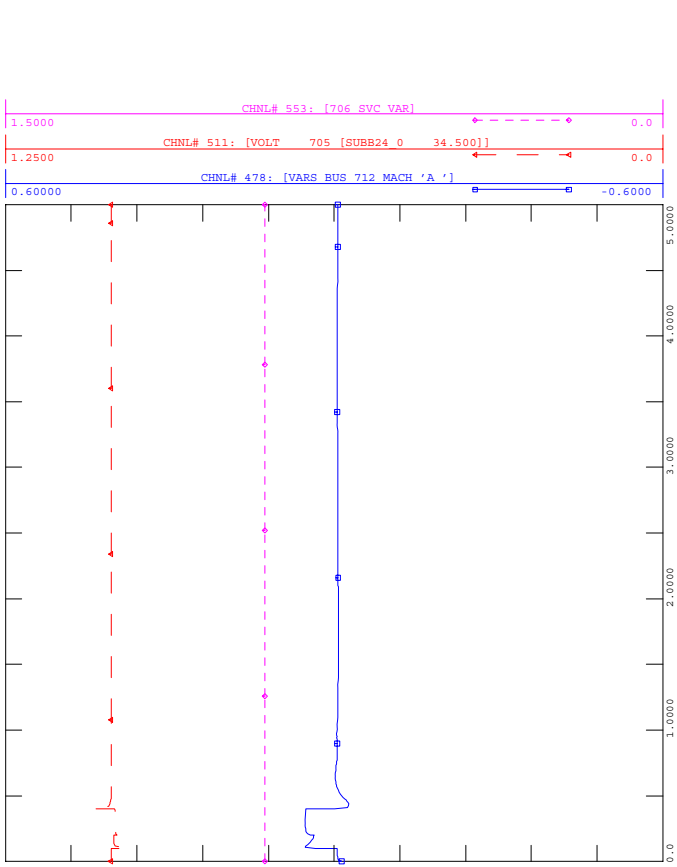
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TUE, NOV 25 2008 17:27
 SUB_D2 DVARS-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

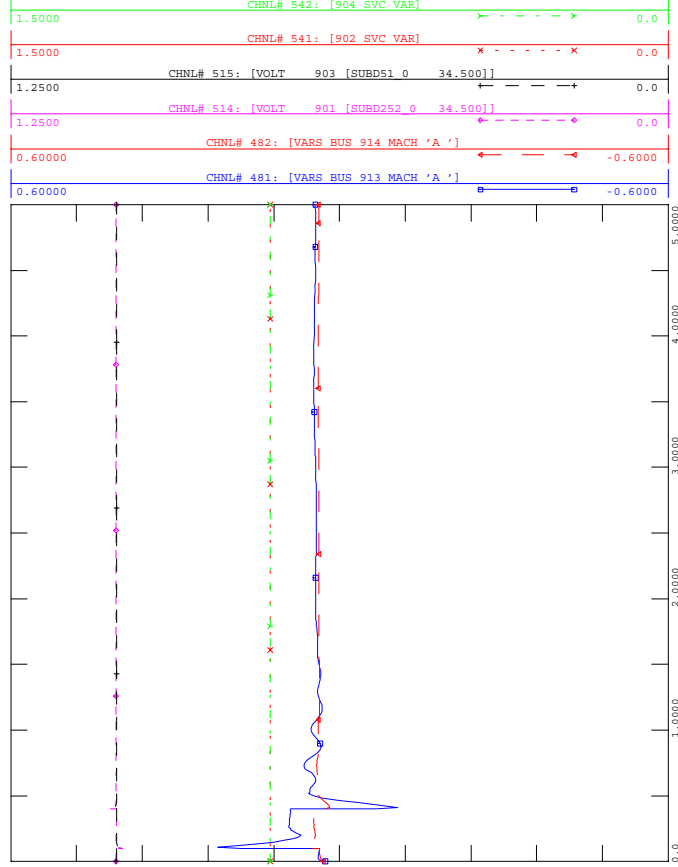
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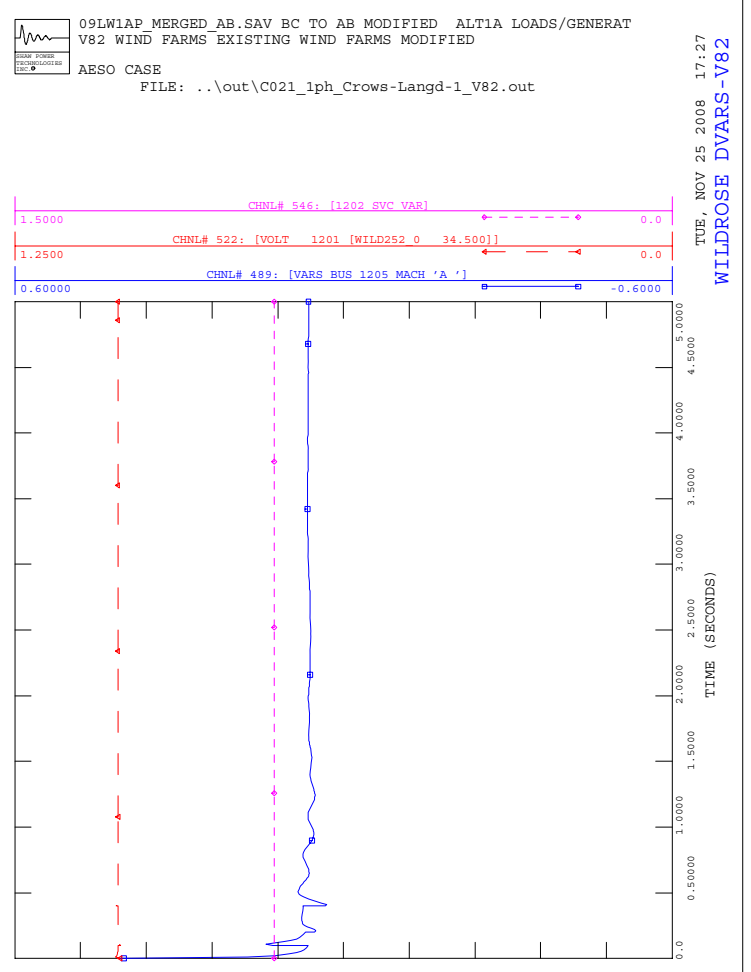
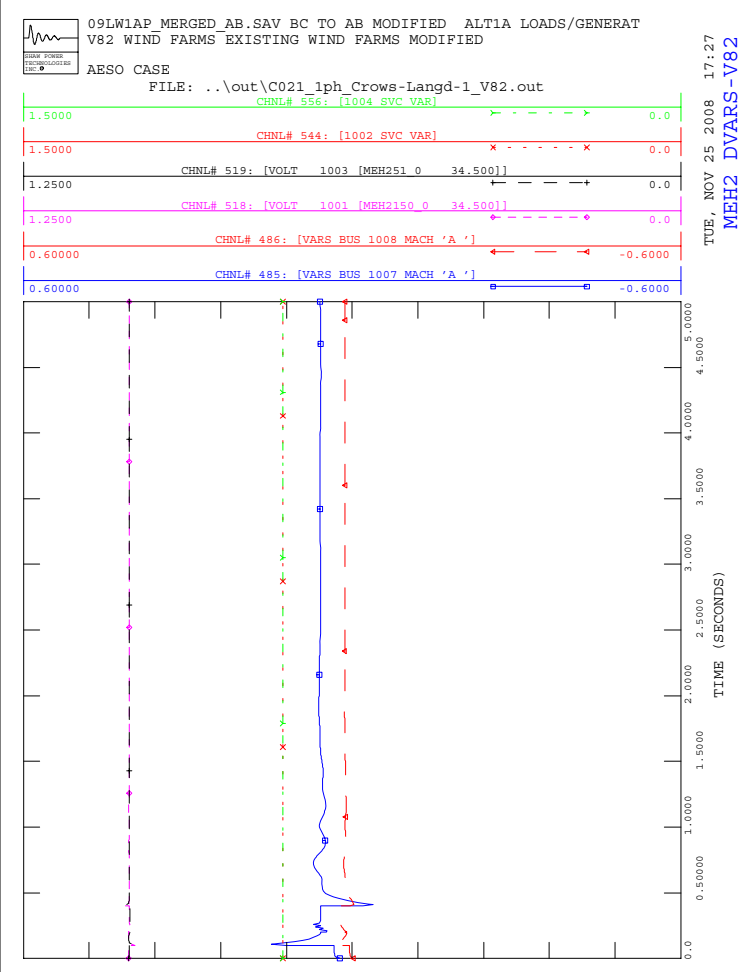
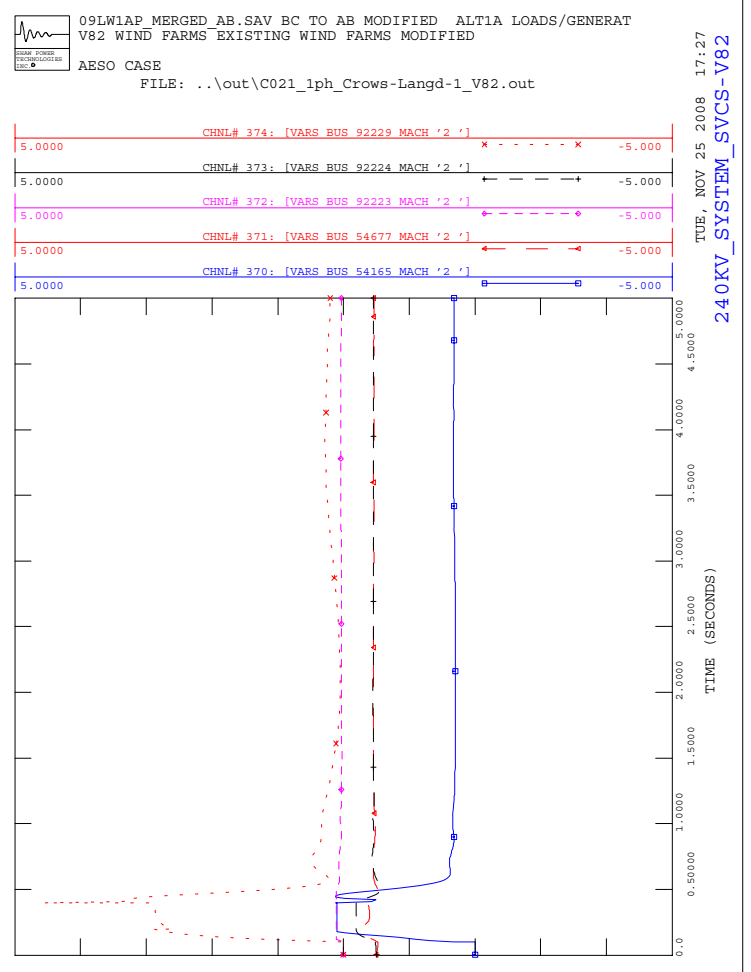
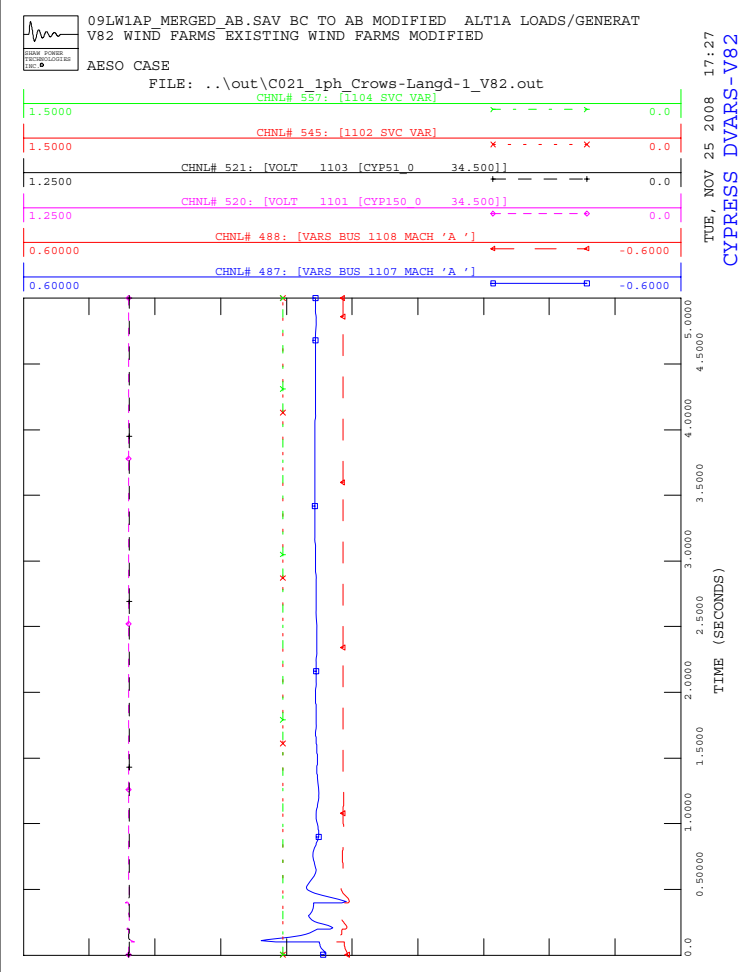
TUE, NOV 25 2008 17:27
 SUB_B2 DVARS-V82

09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

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TUE, NOV 25 2008 17:27
 SUB_D1 DVARS-V82



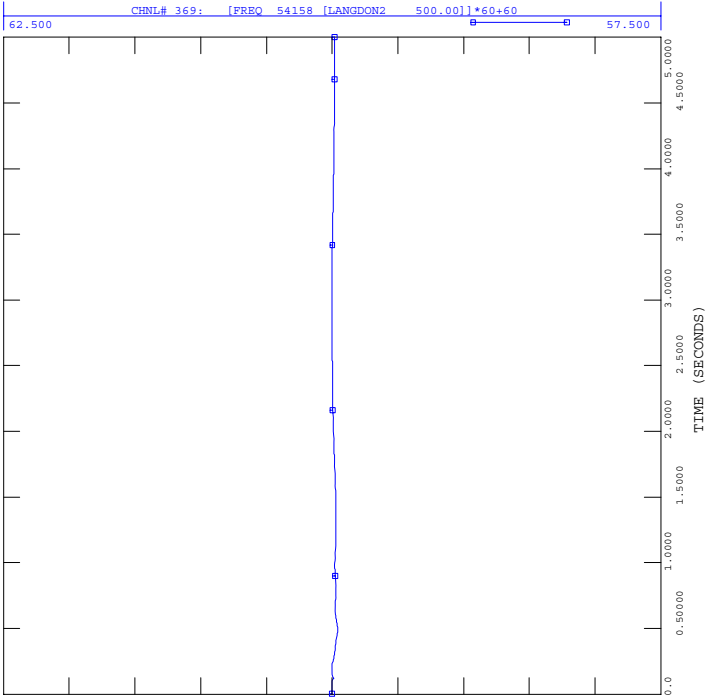


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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

ABSO CASE

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TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82

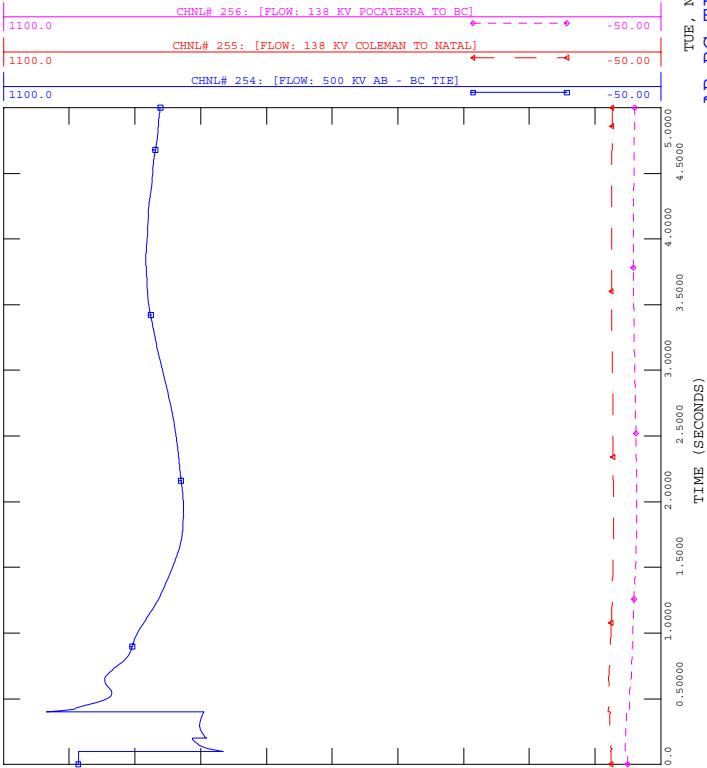


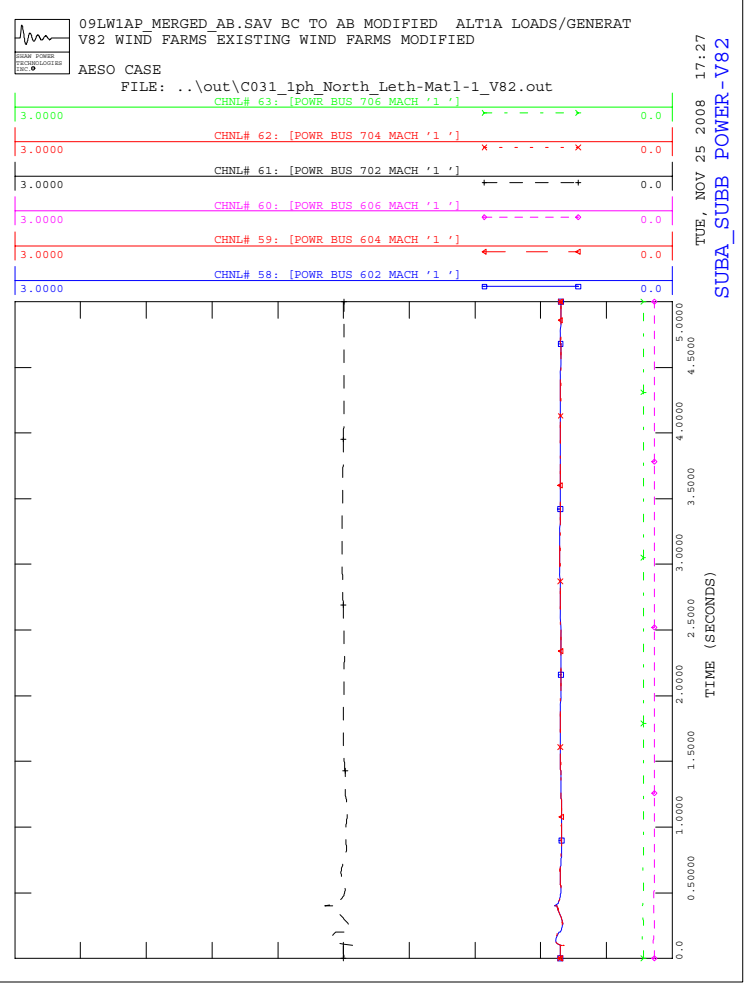
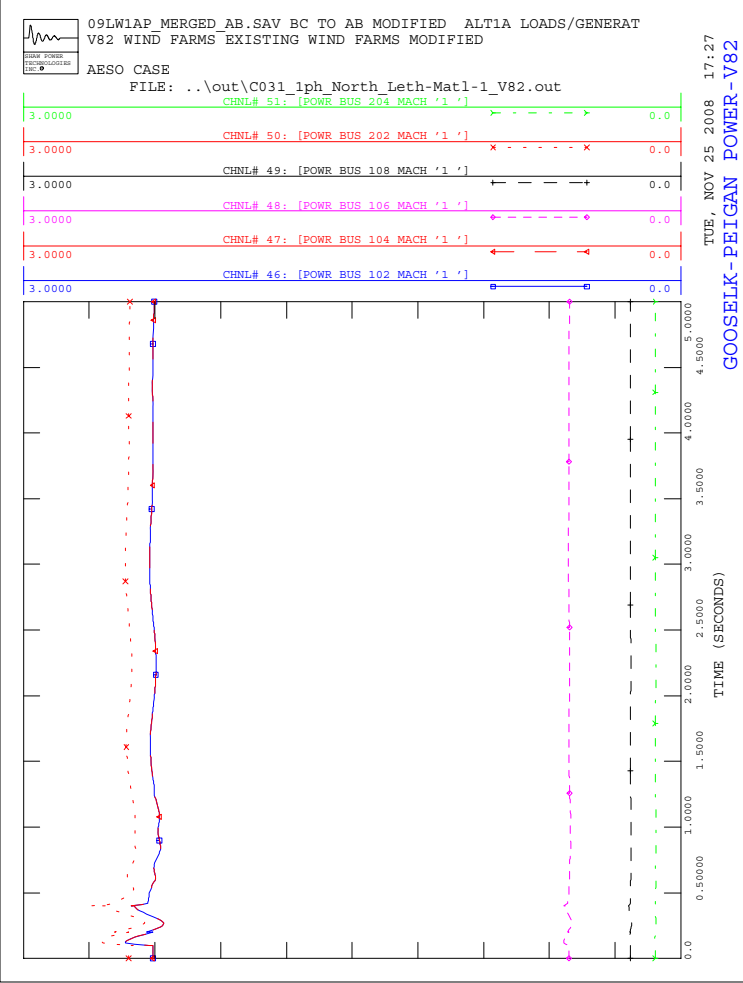
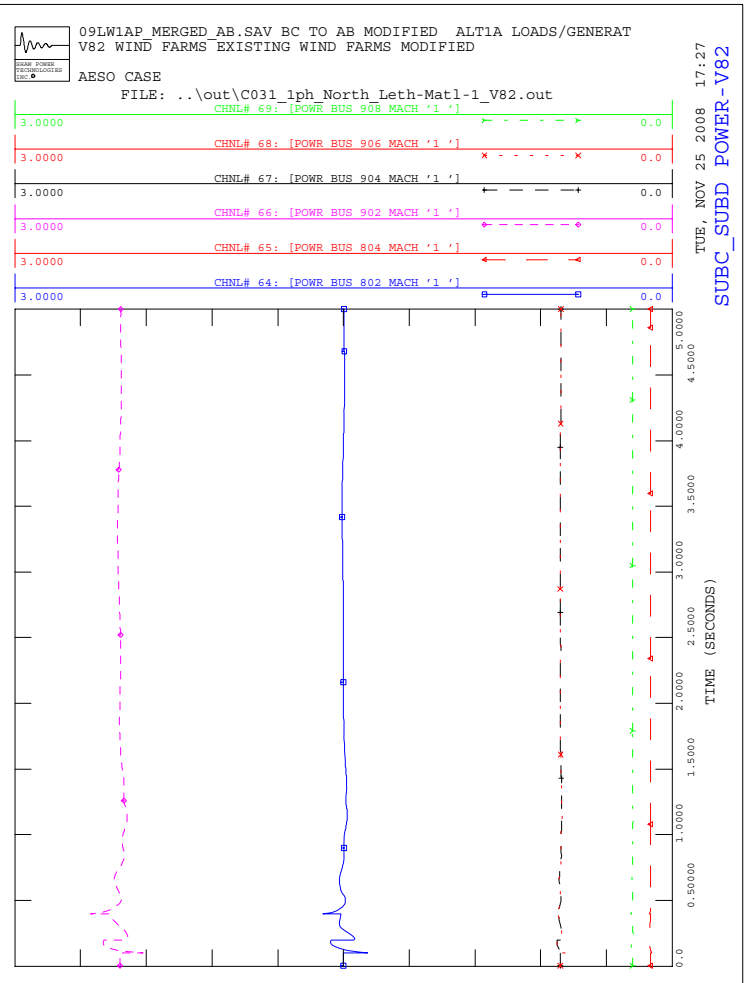
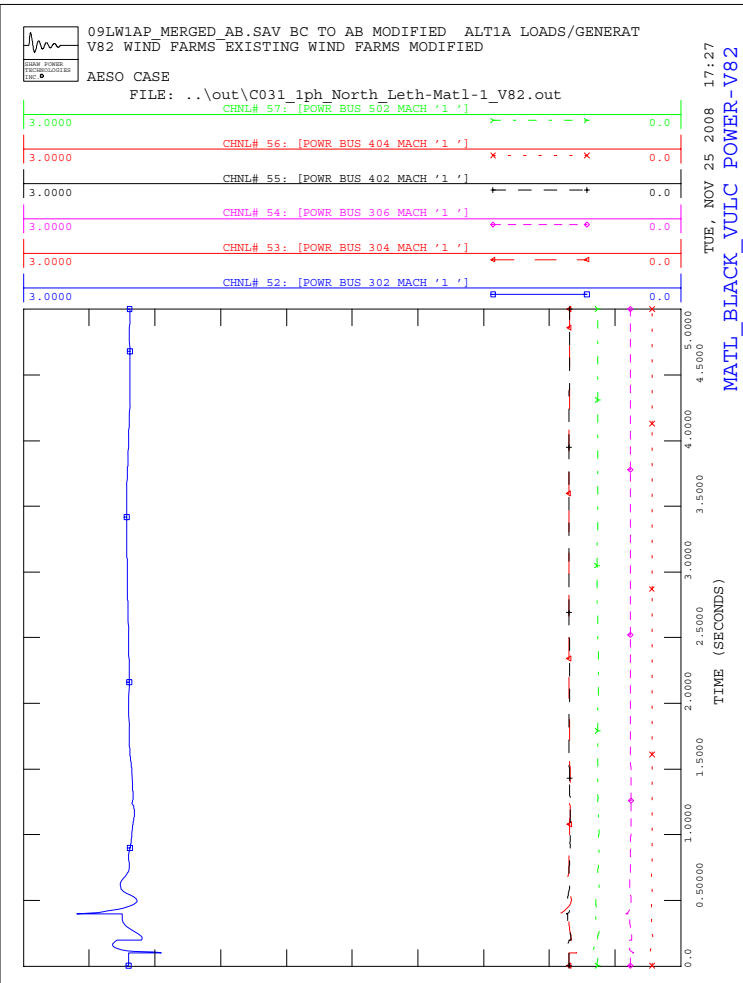
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED

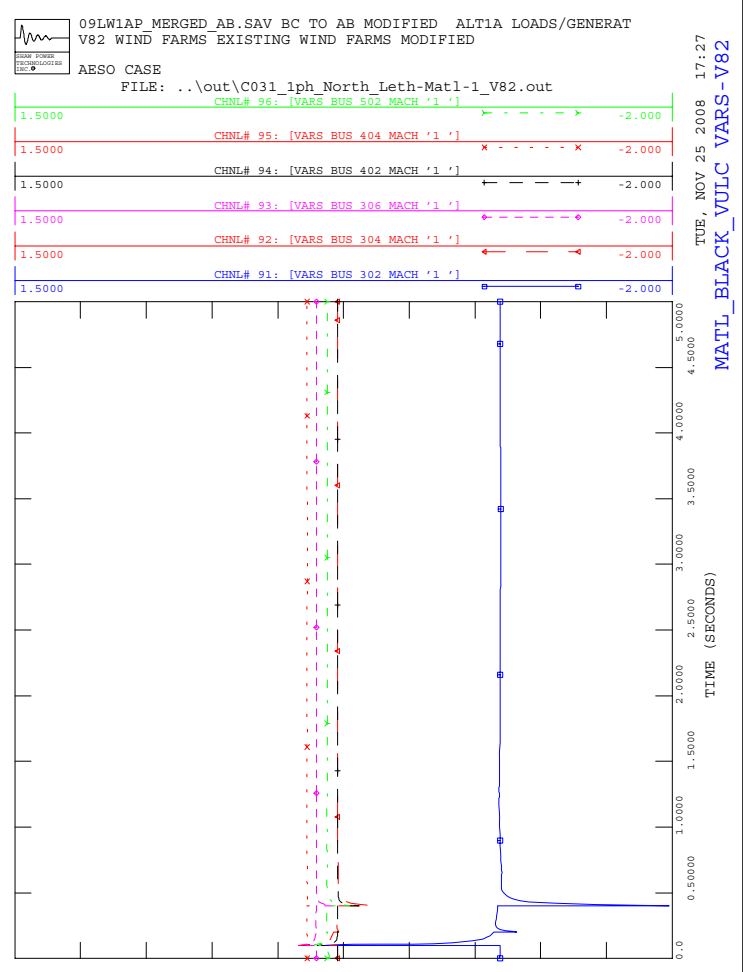
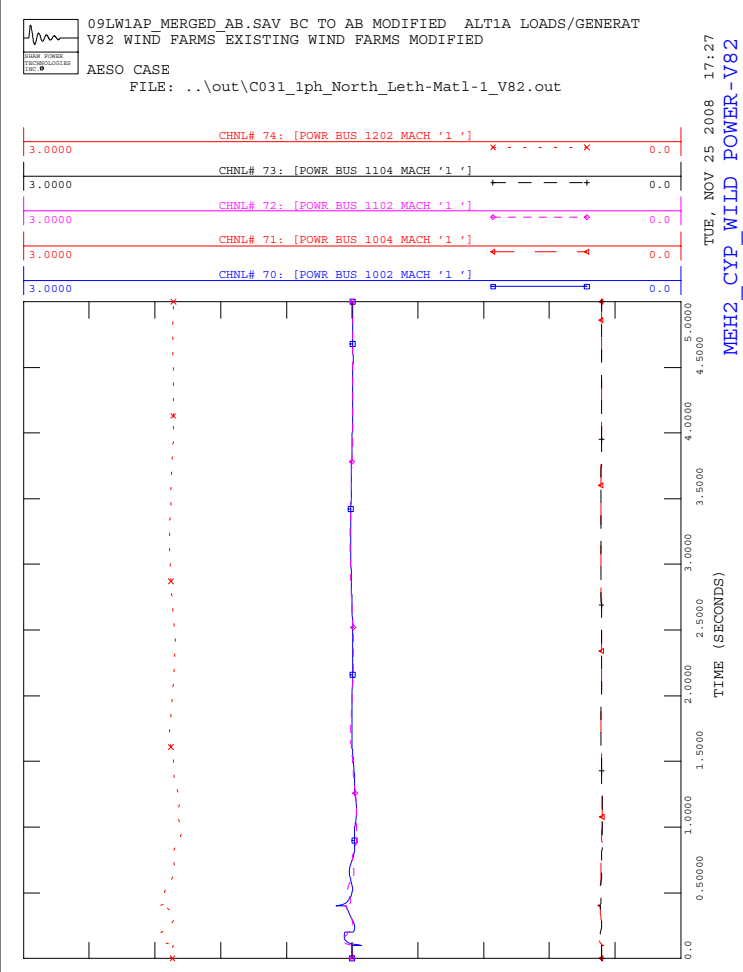
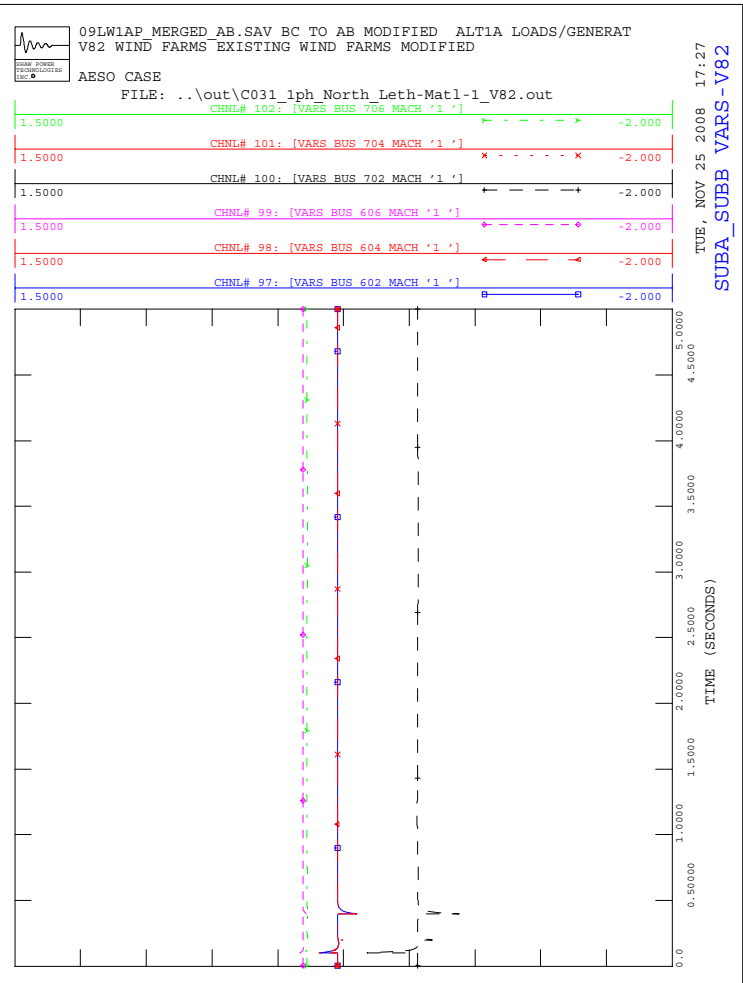
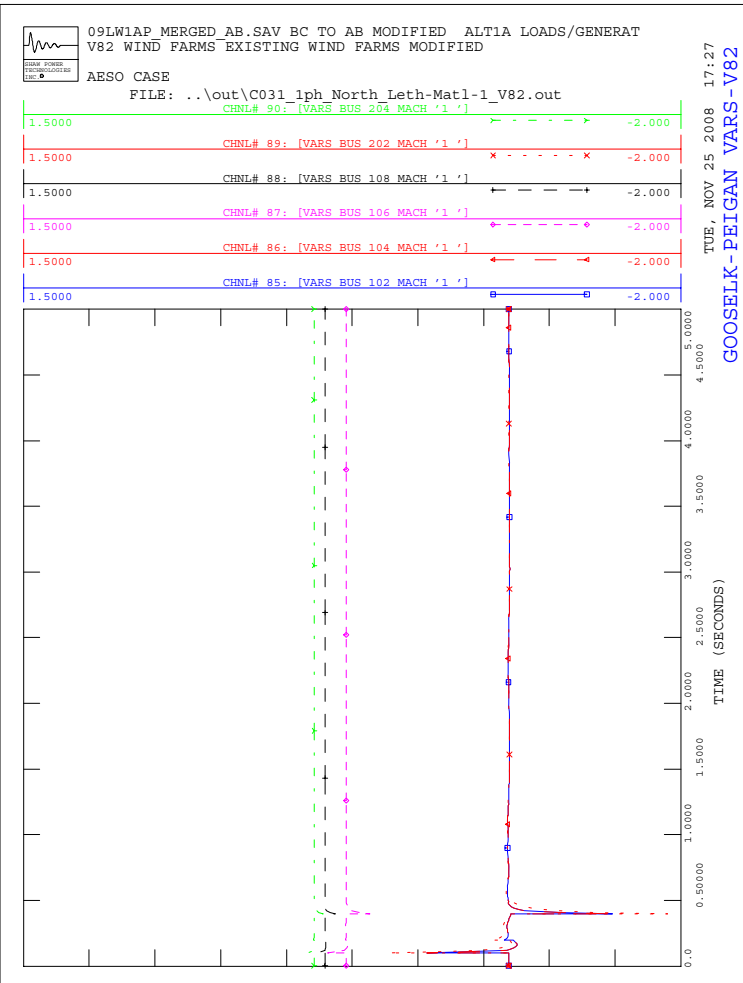
ABSO CASE

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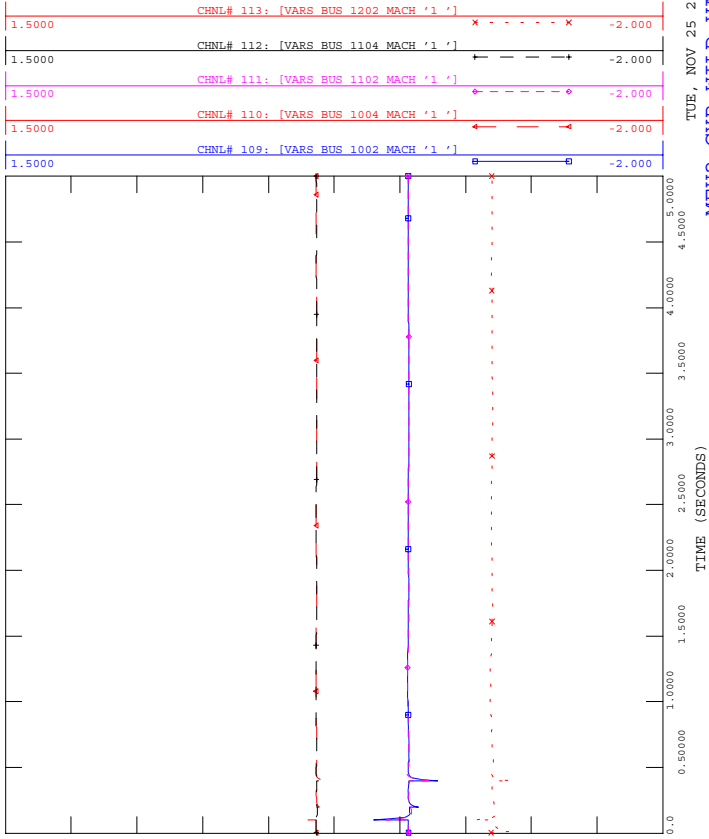
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AB_BC_TIE_FLOWS-V82





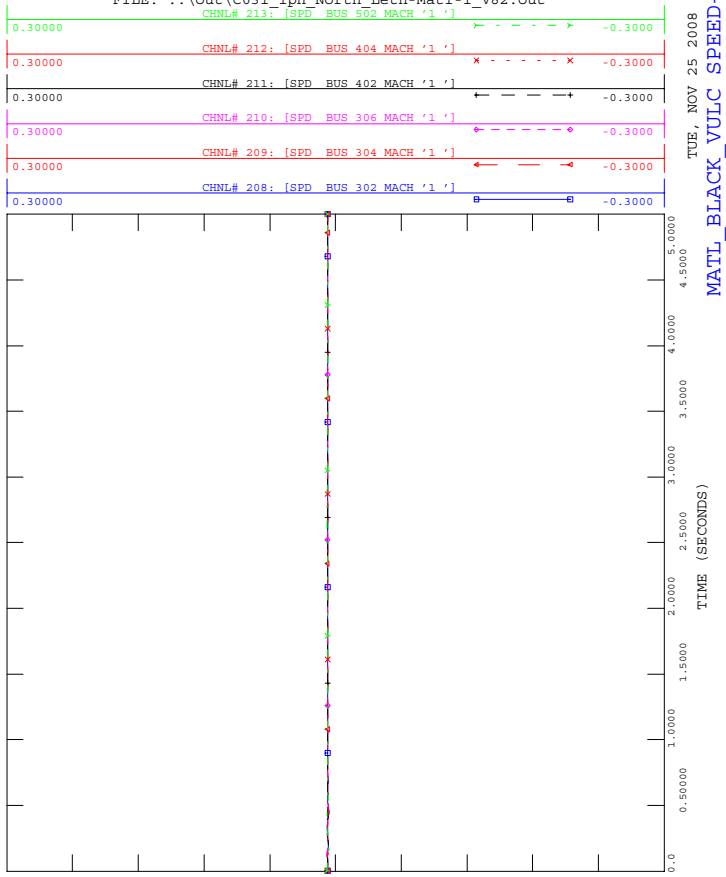


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
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 AESO CASE
 FILE: ..\out\C031_1ph_North_Leth-Matl-1_V82.out



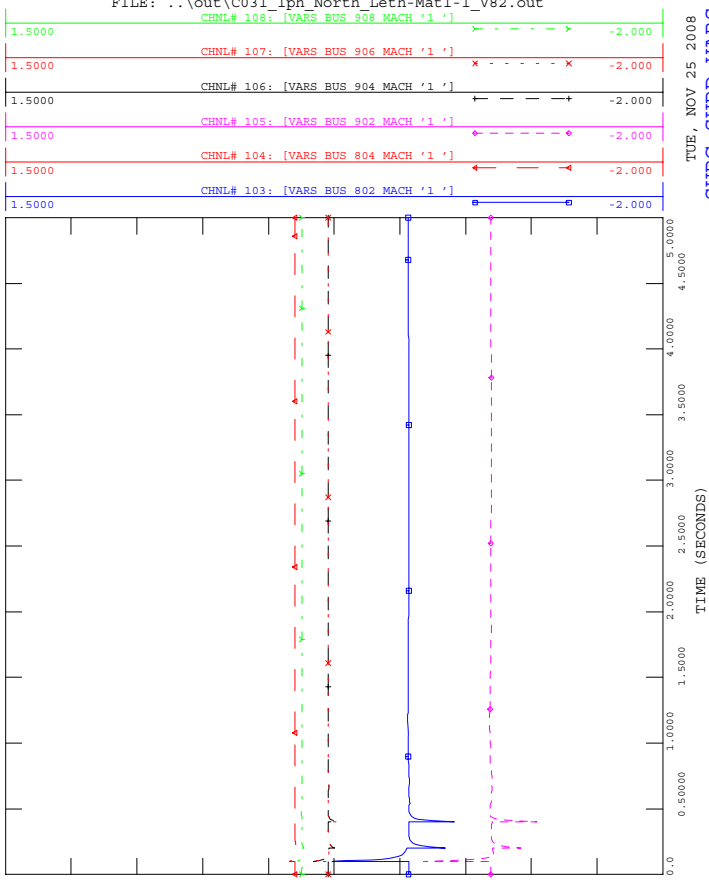
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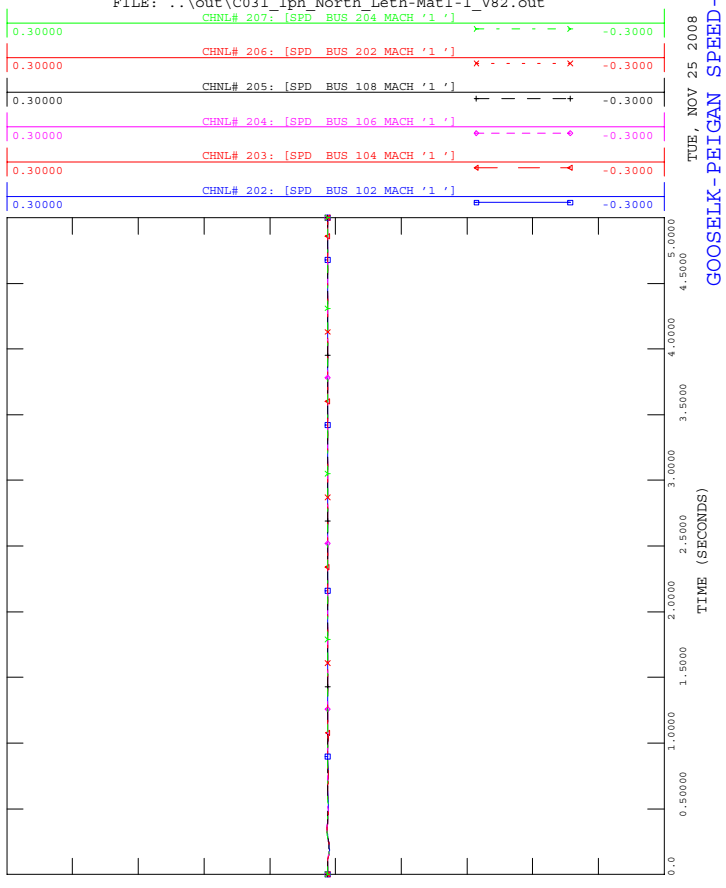
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 MATL_BLACK_VULC_SPEED-V82

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 AESO CASE
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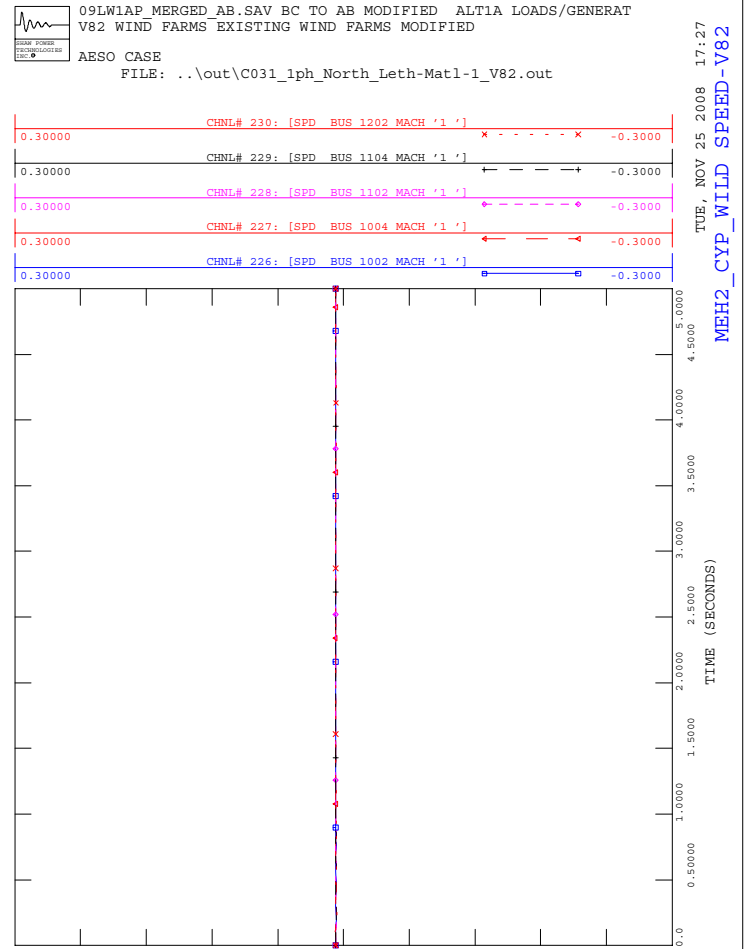
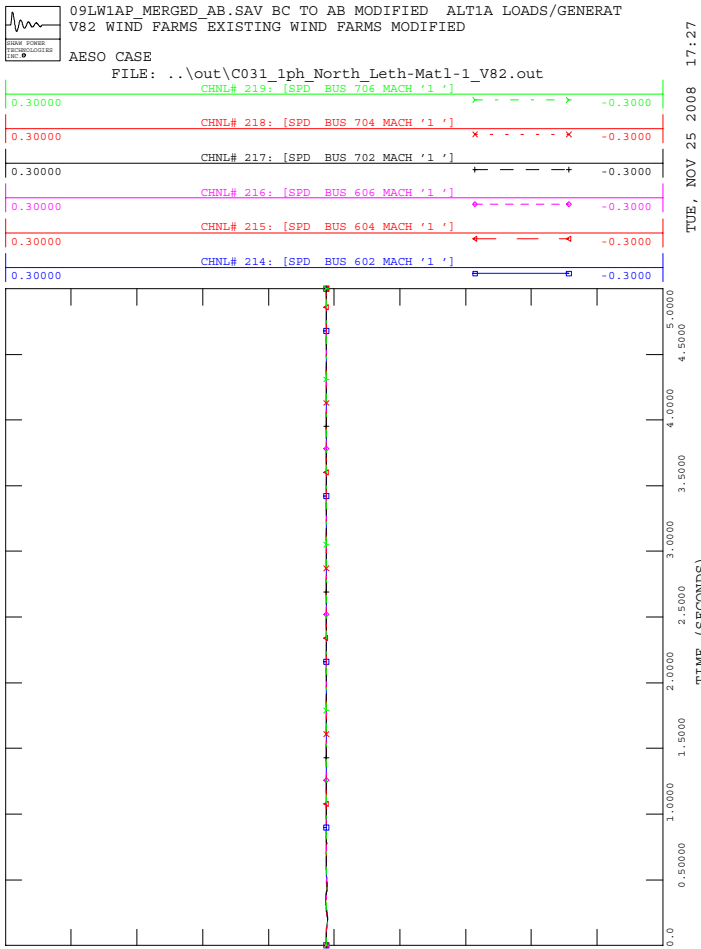
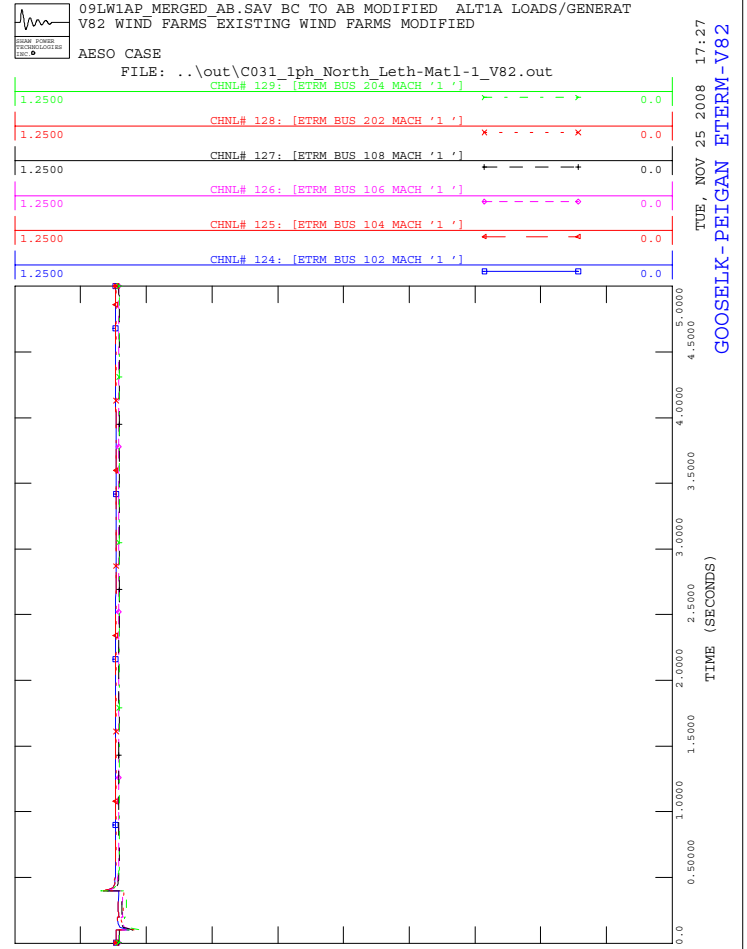
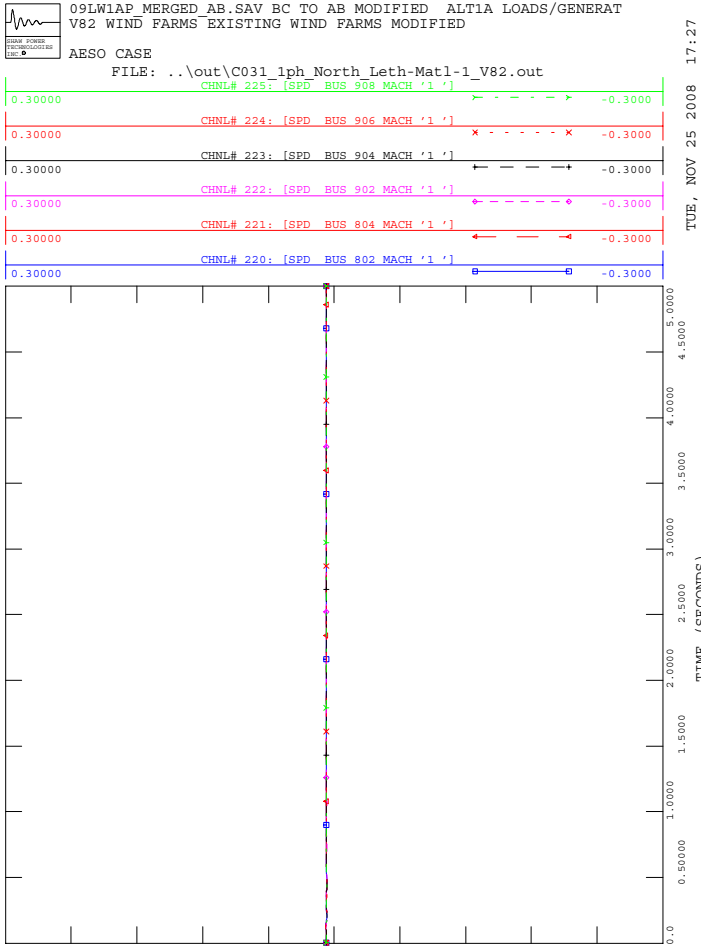


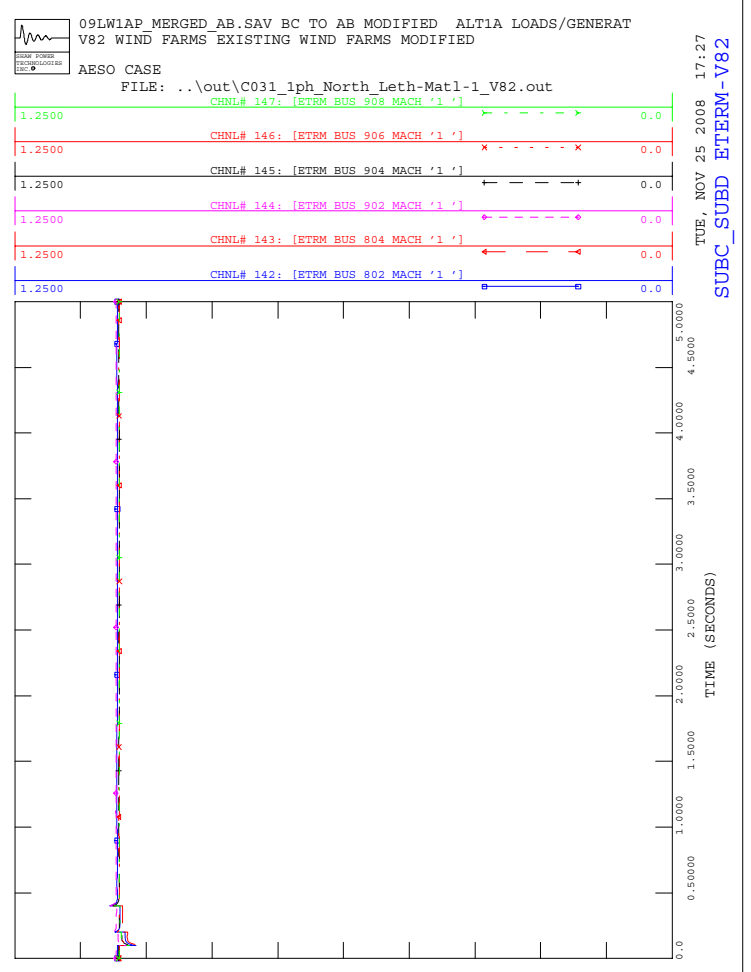
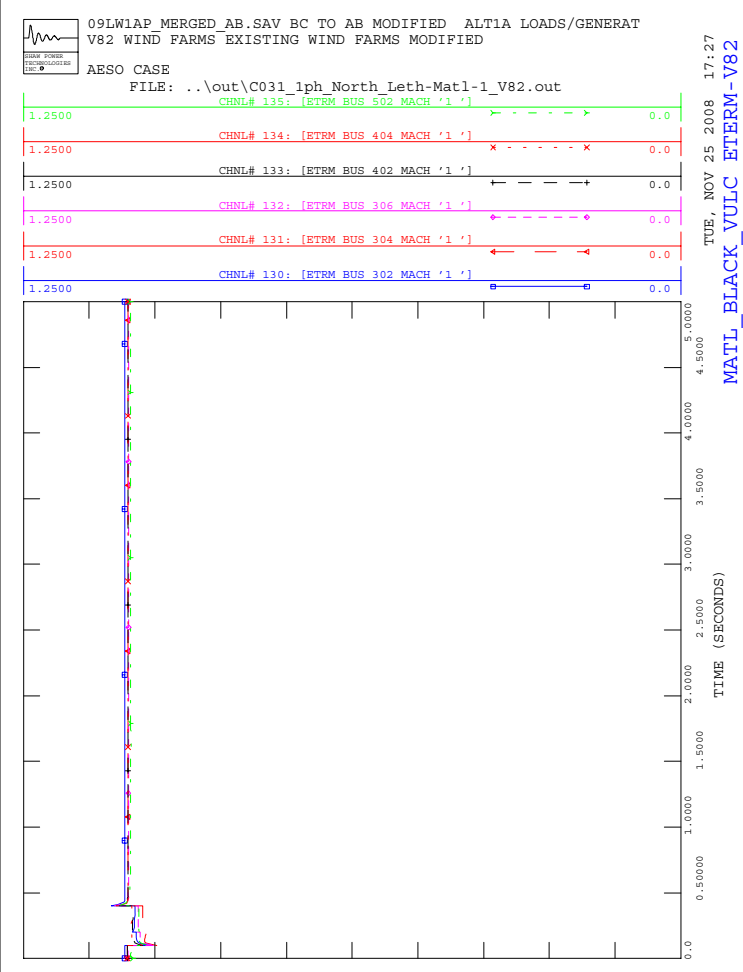
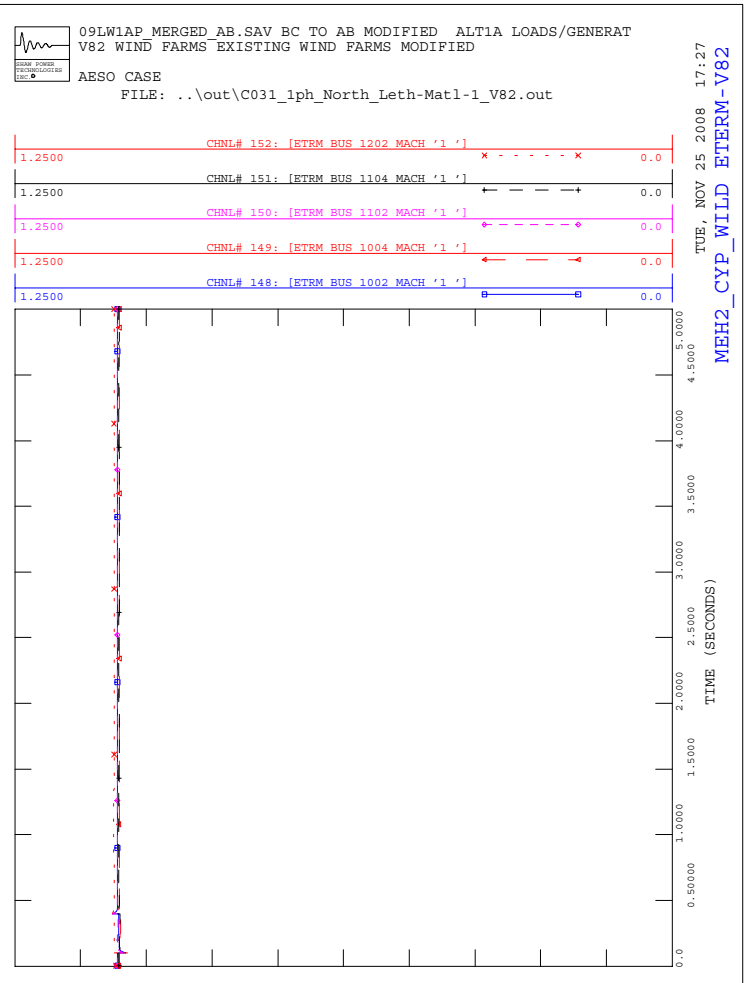
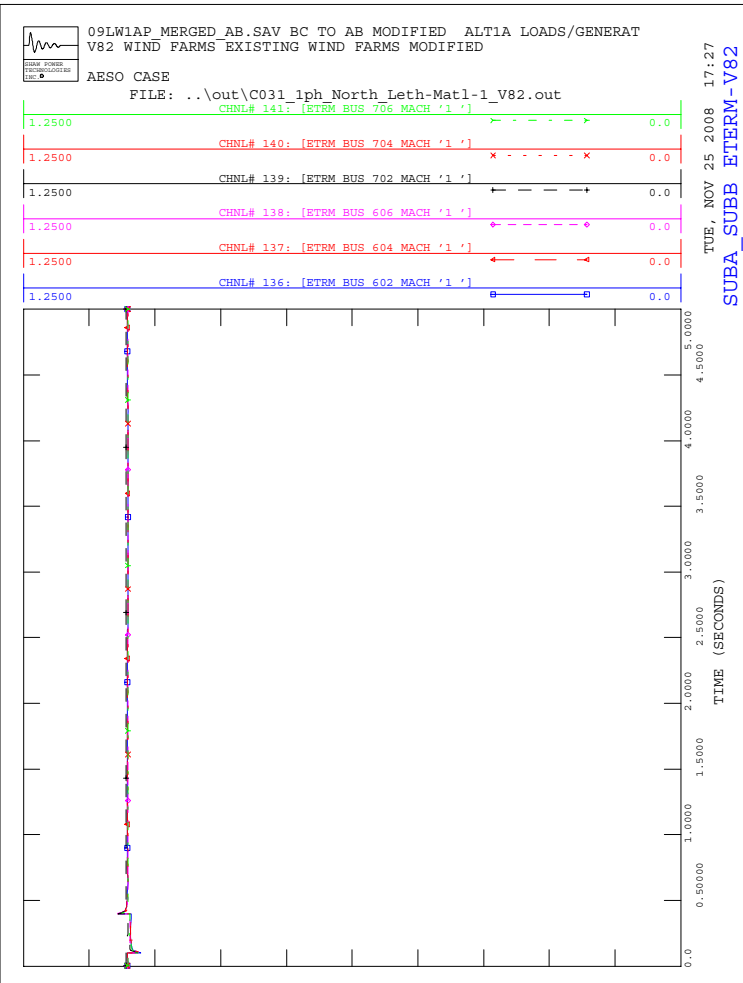
TUE, NOV 25 2008 17:27
 SUBC_SUBD_VARS-V82

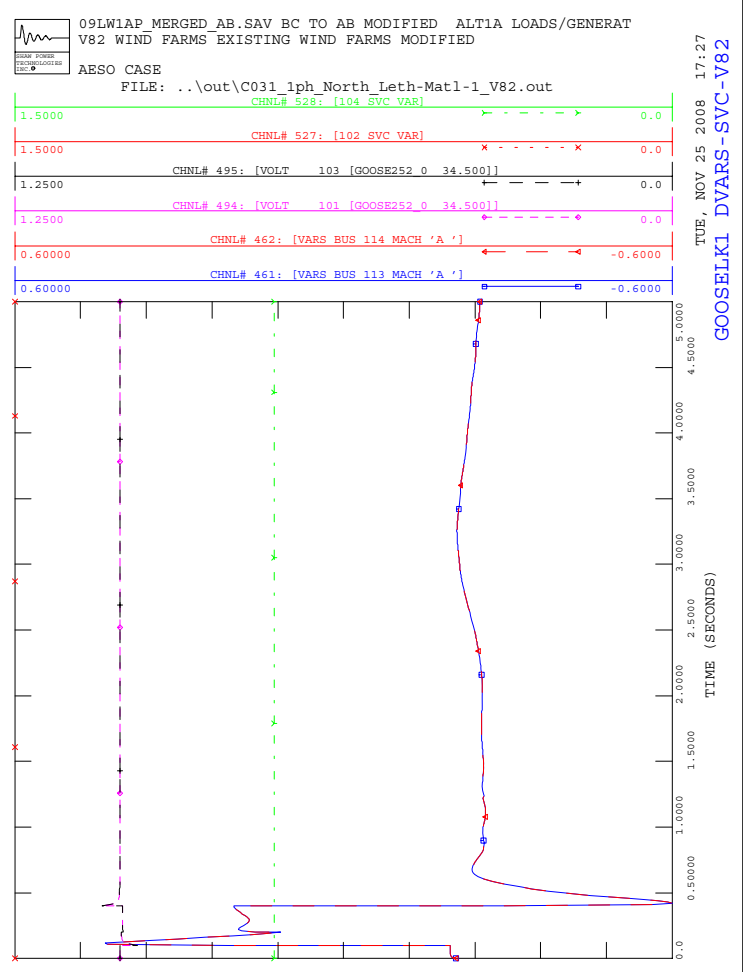
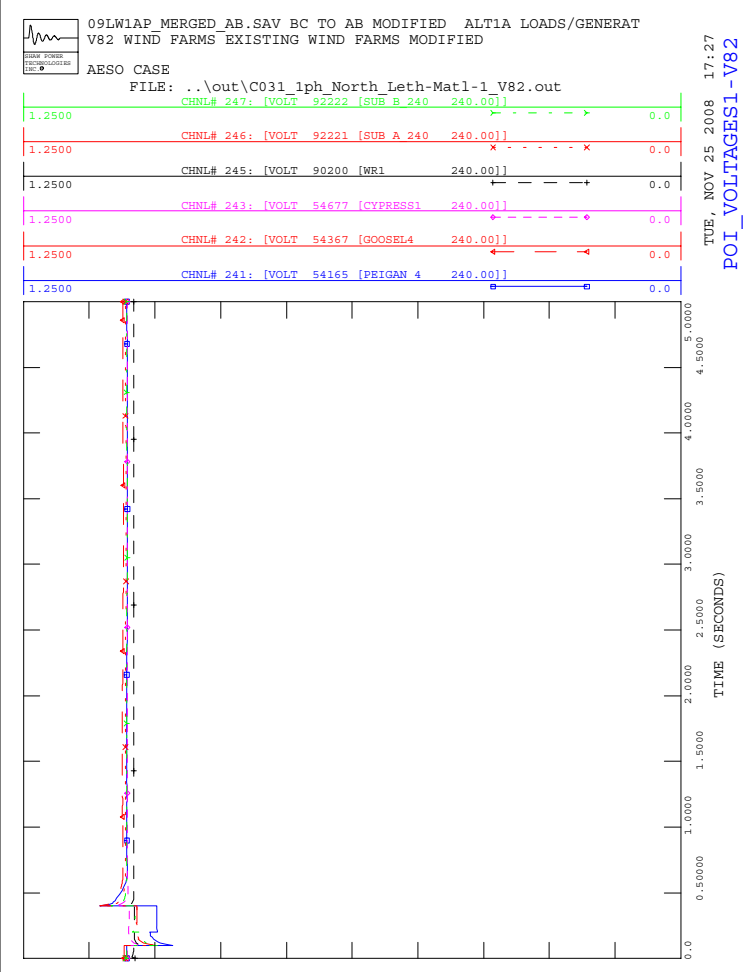
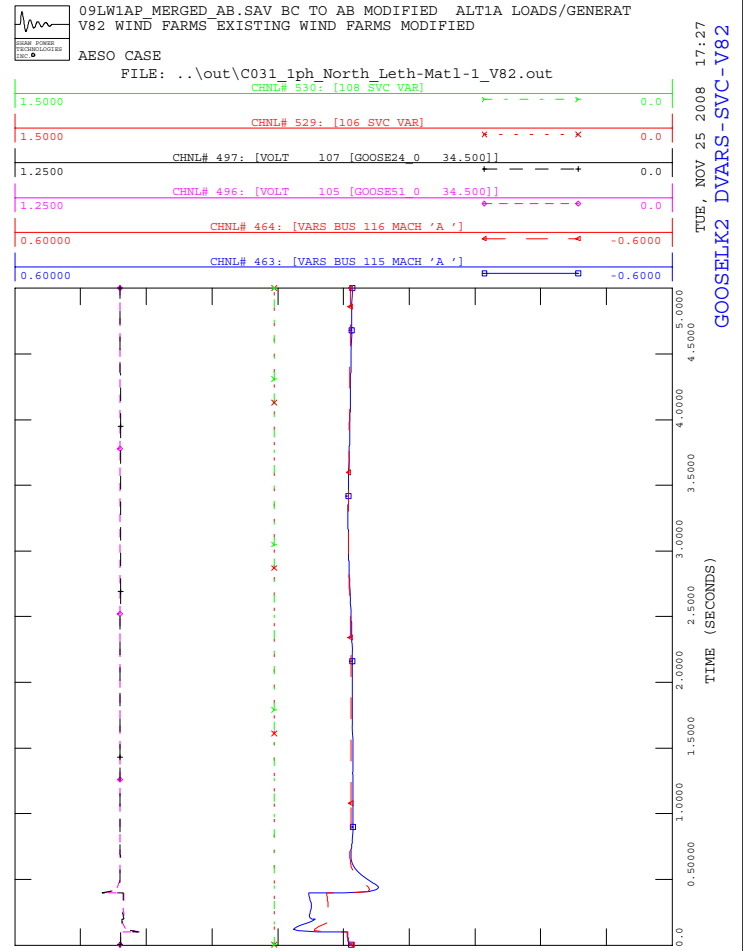
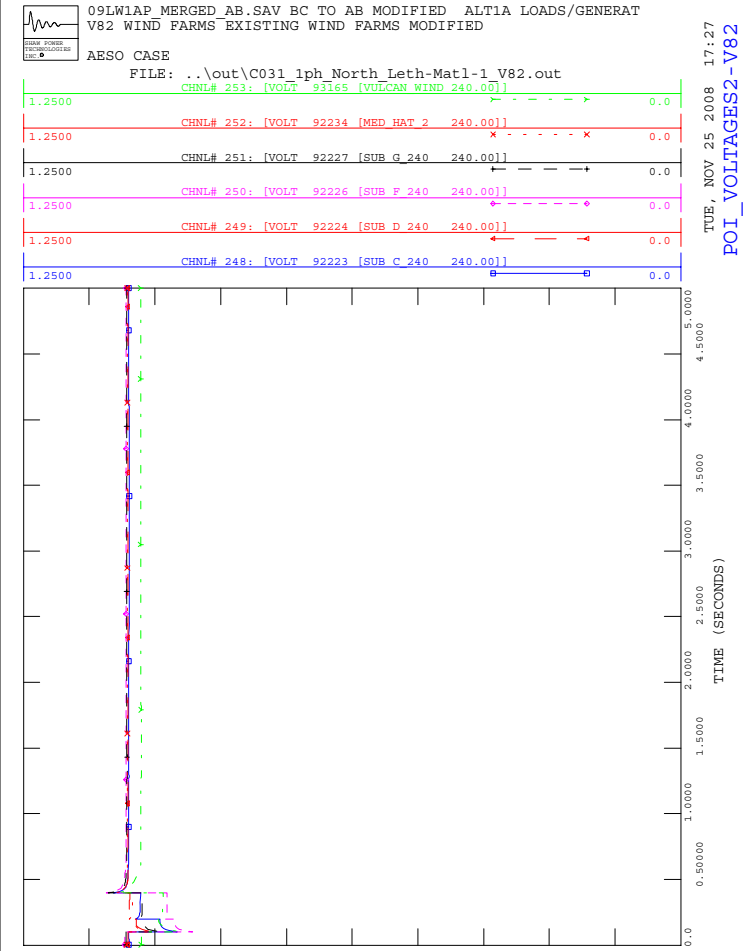
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE
 FILE: ..\out\C031_1ph_North_Leth-Matl-1_V82.out

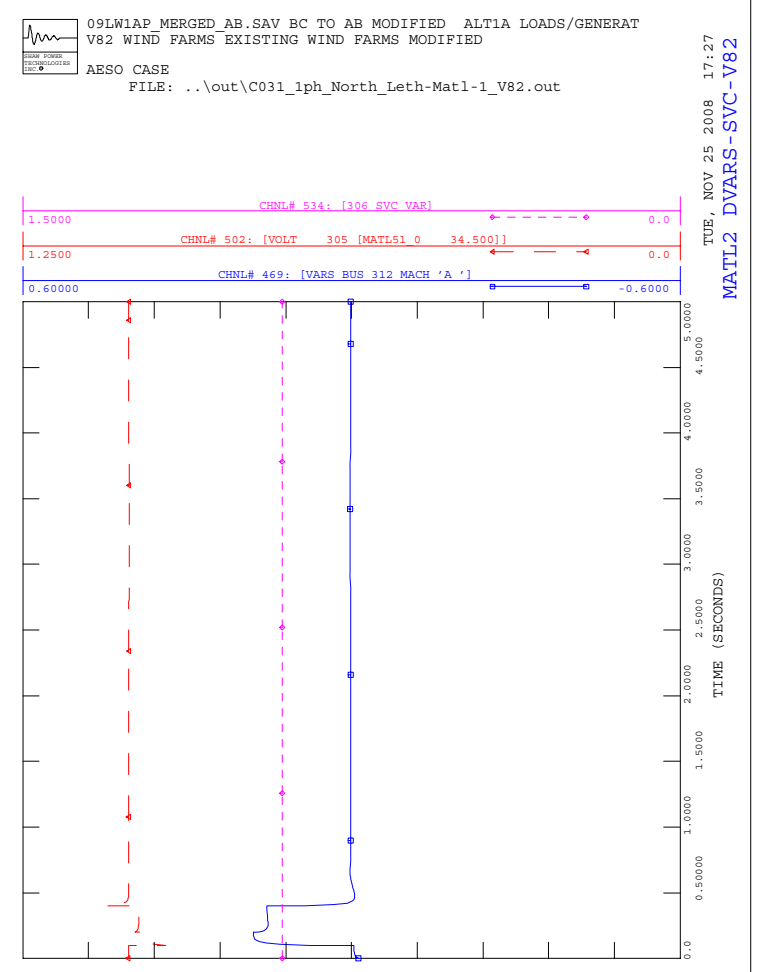
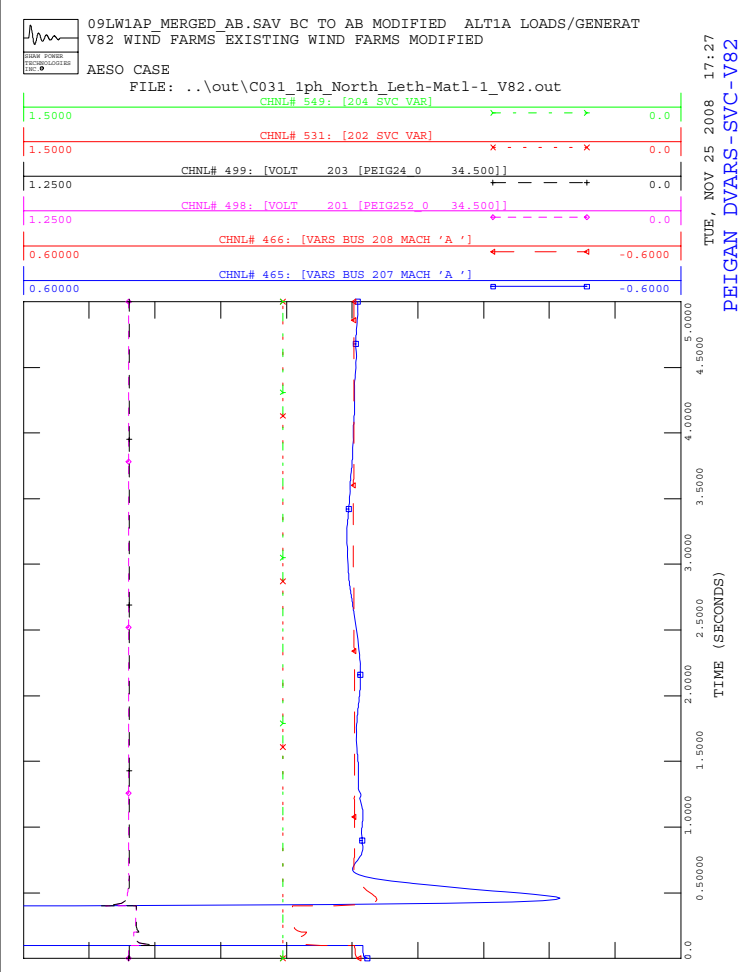
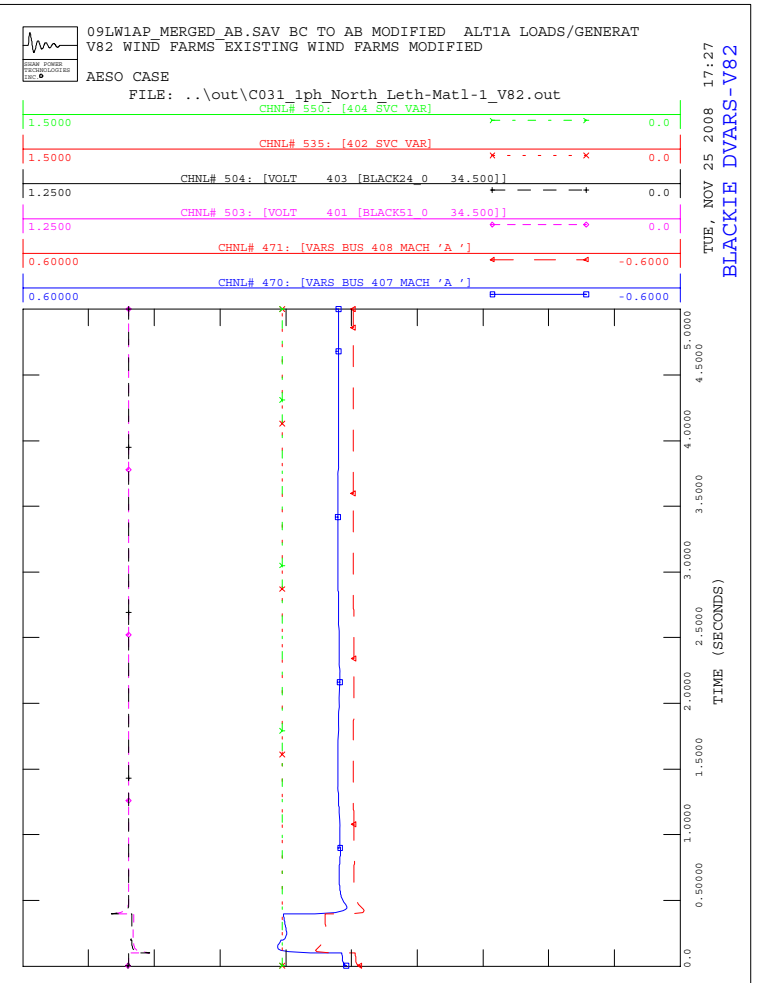
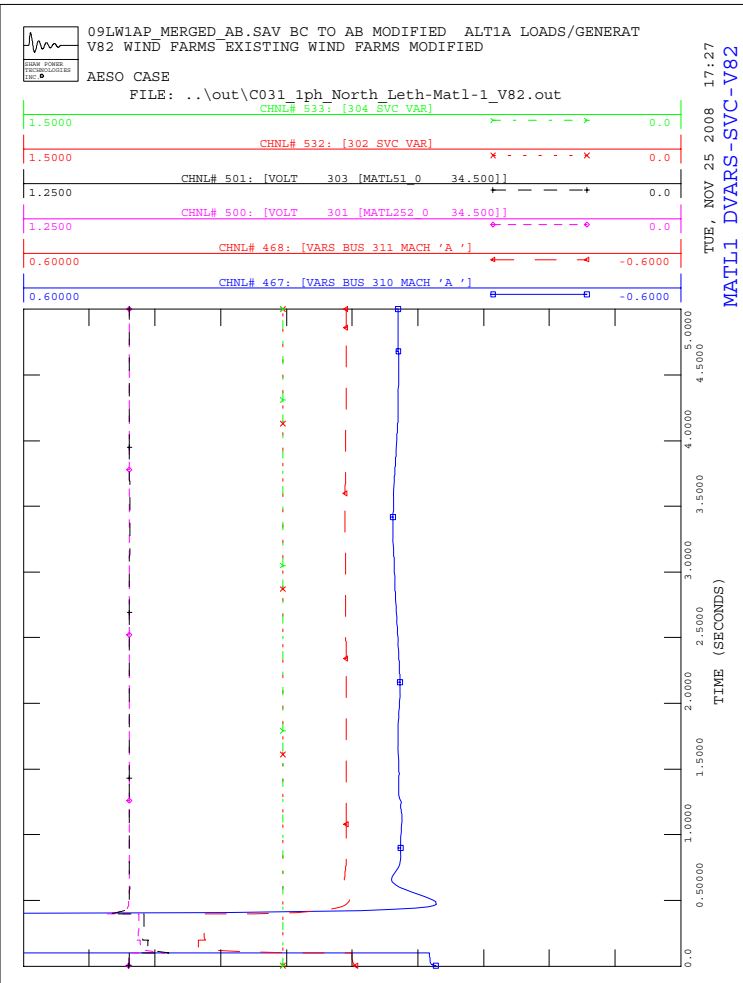


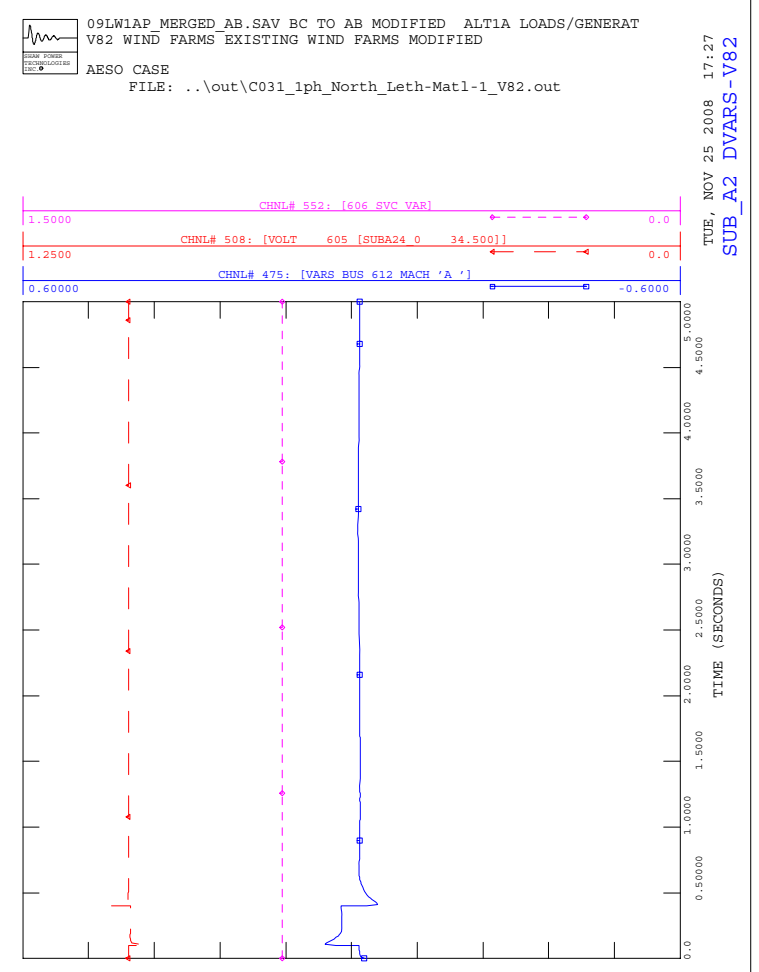
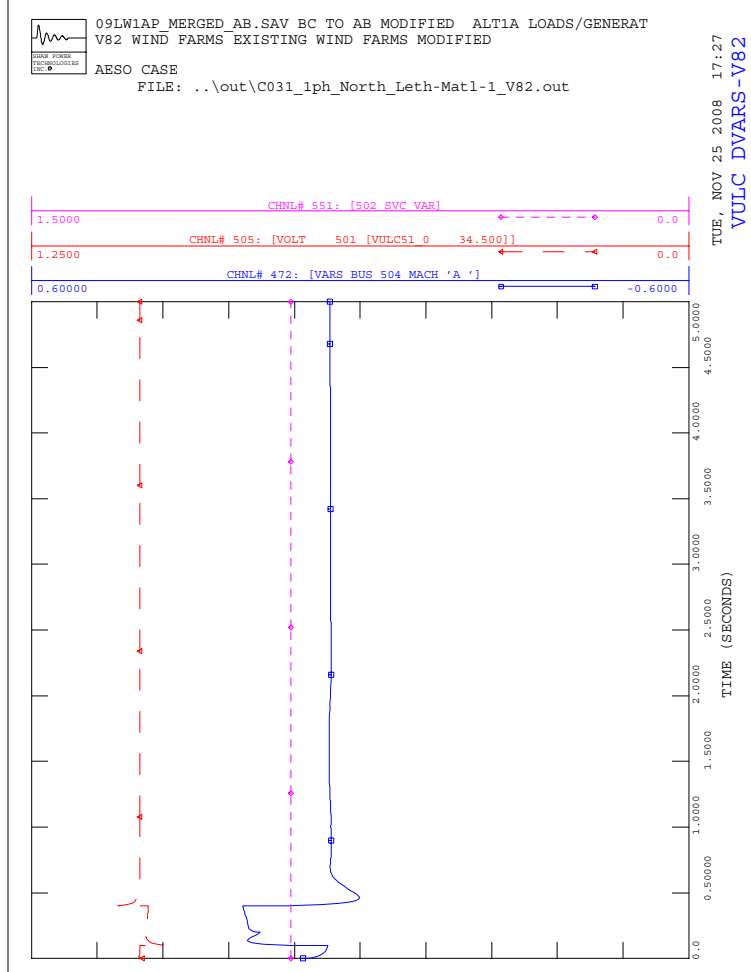
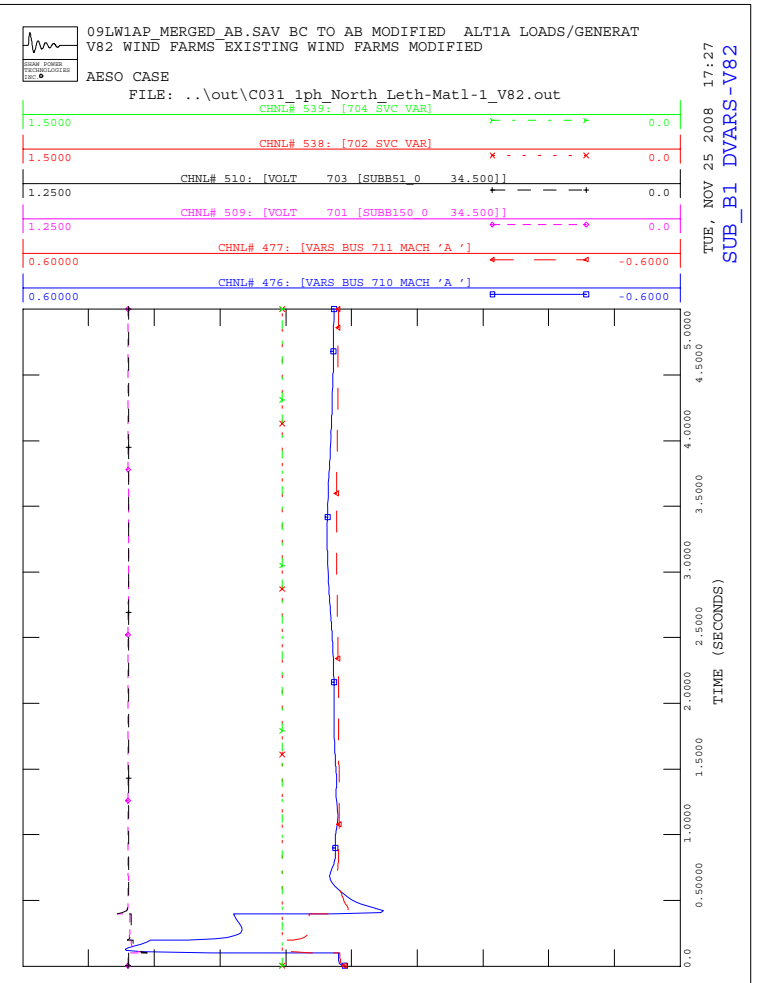
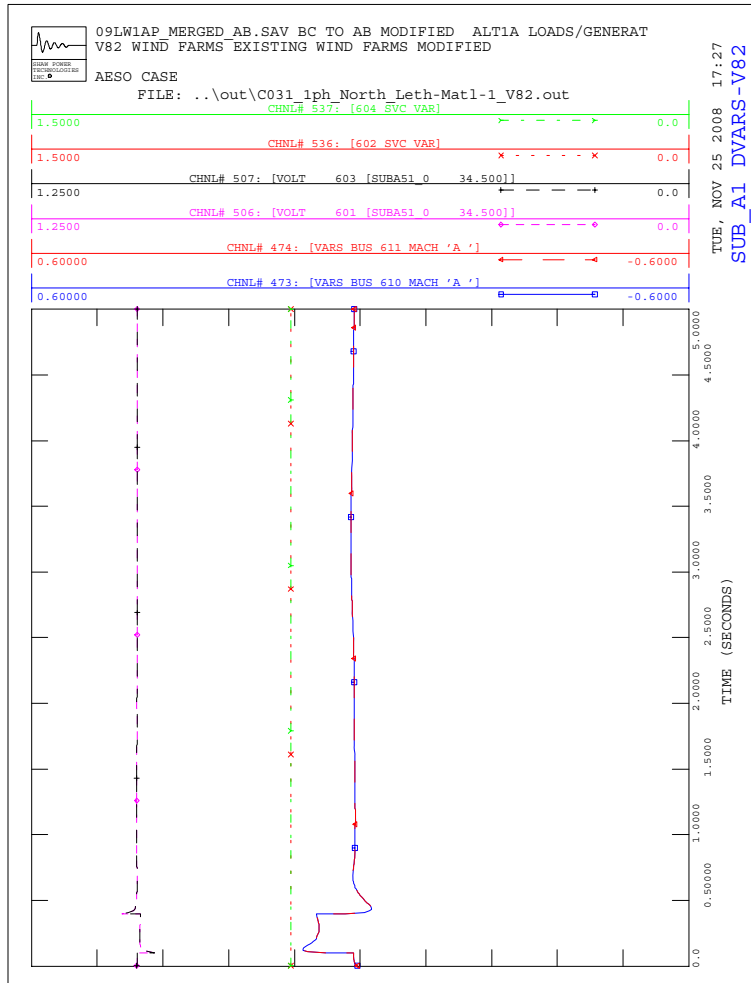
TUE, NOV 25 2008 17:27
 GOOSELK-PEIGAN_SPEED-V82

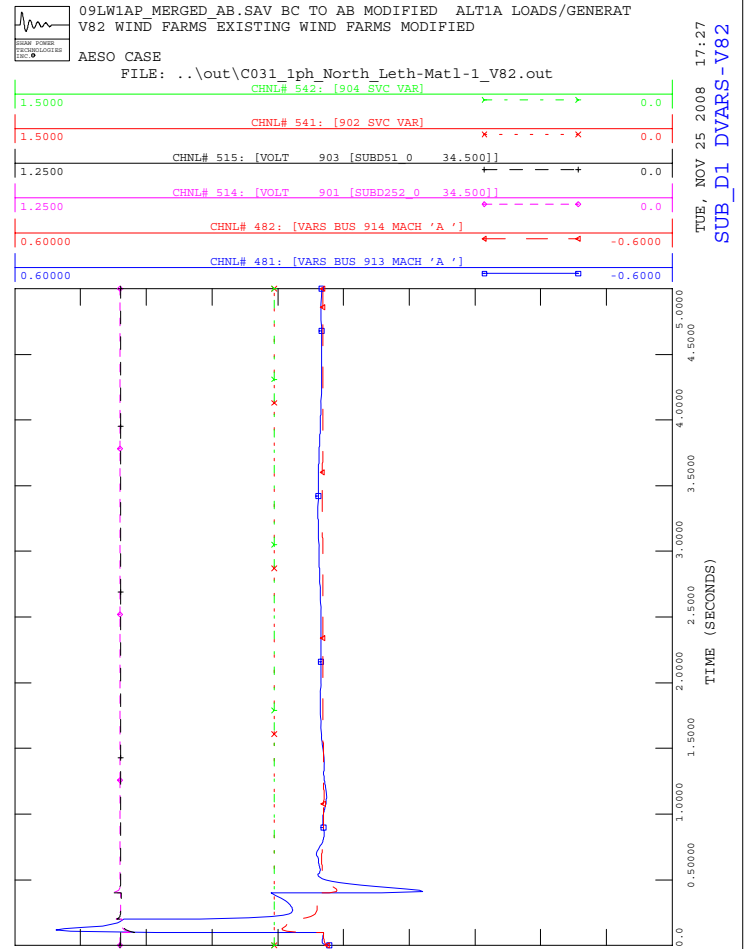
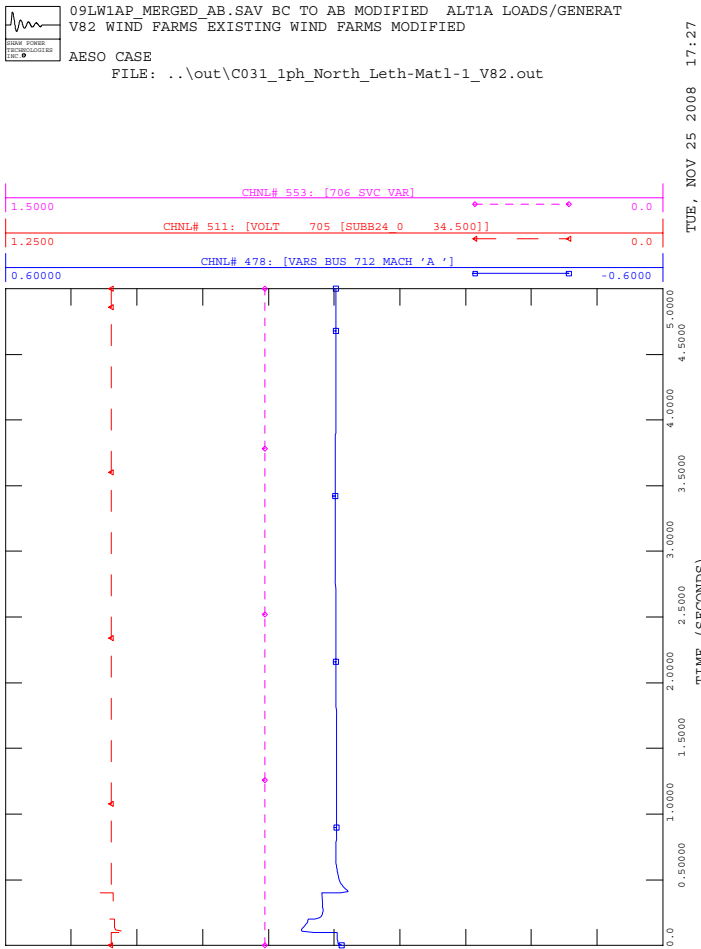
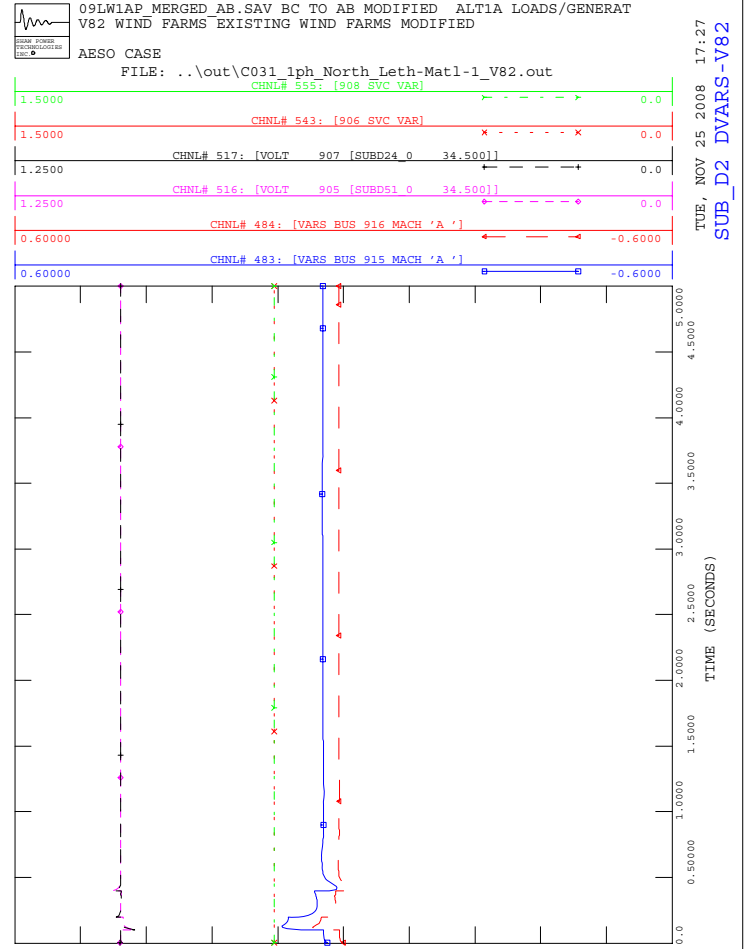
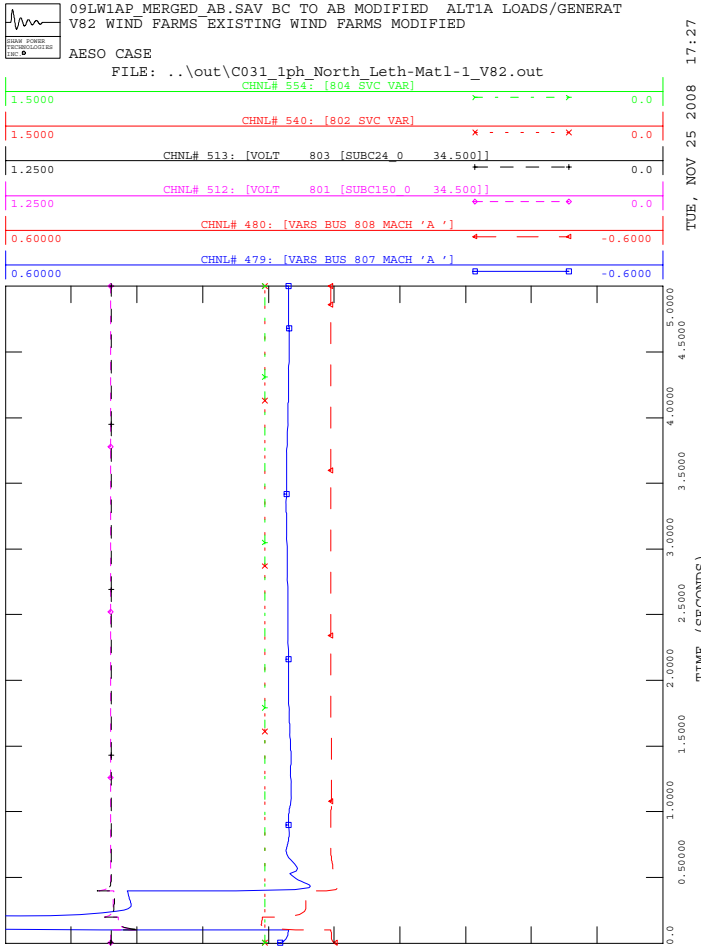


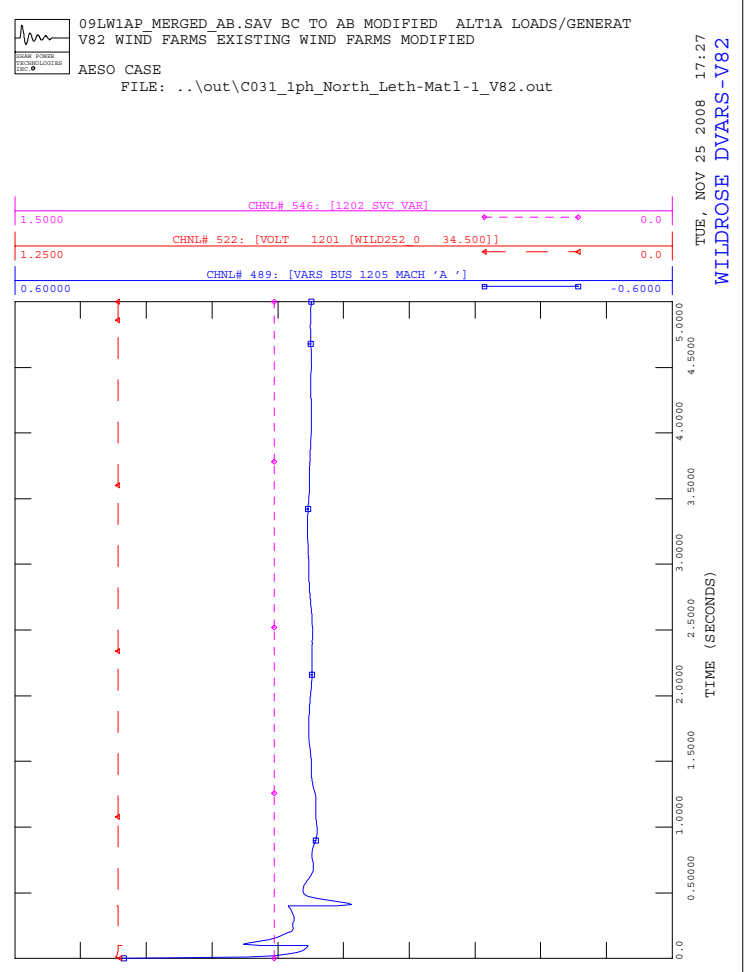
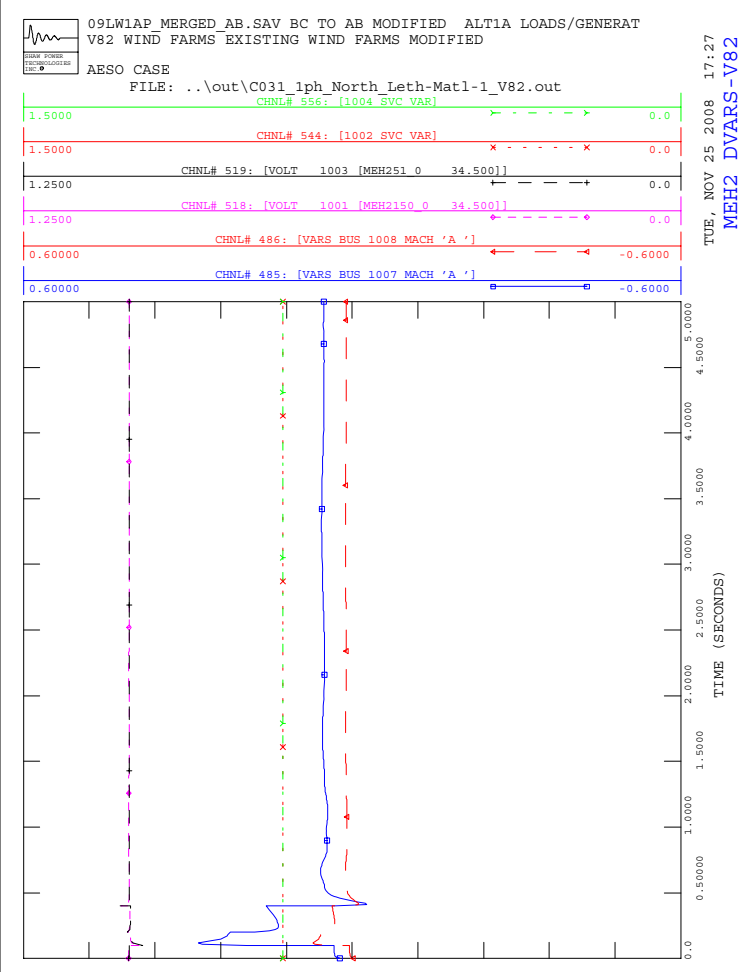
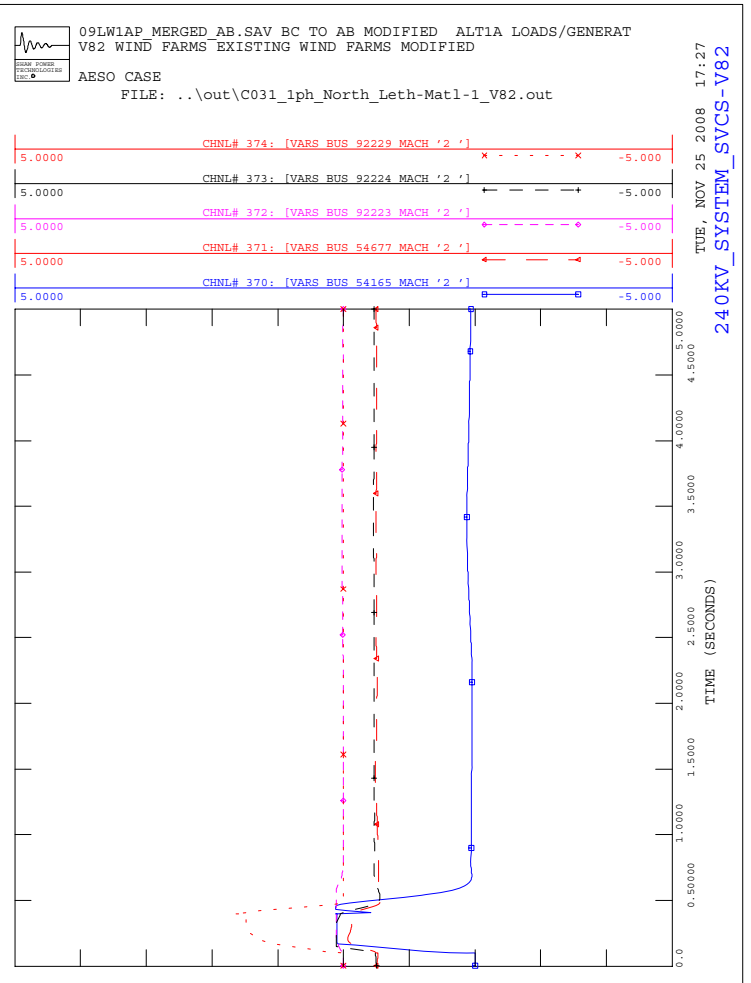
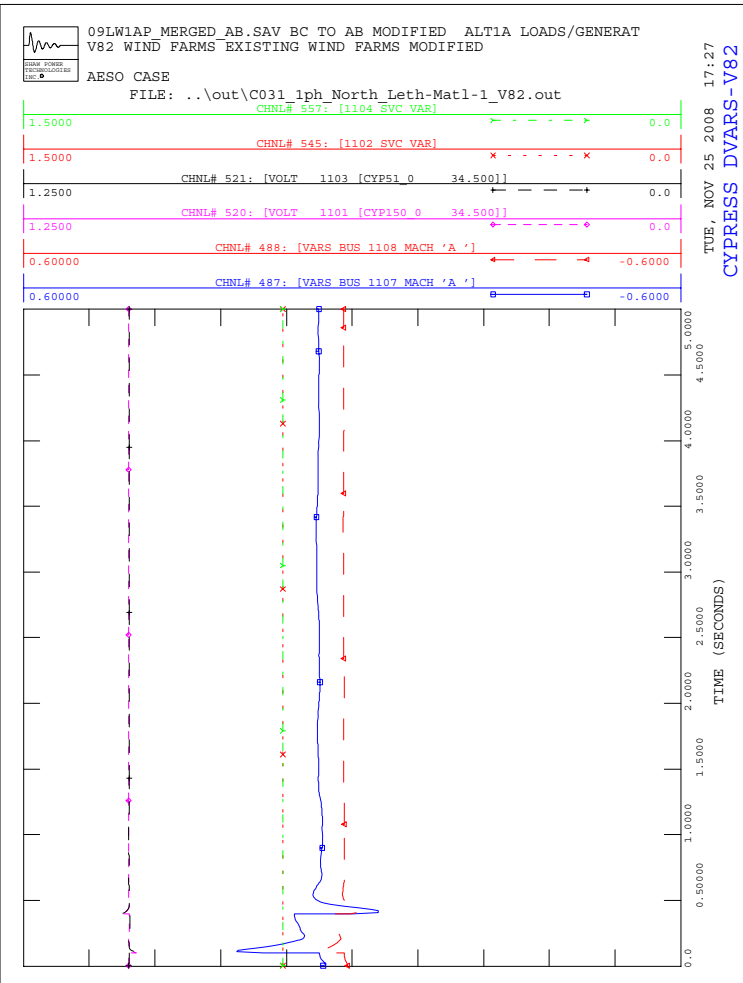








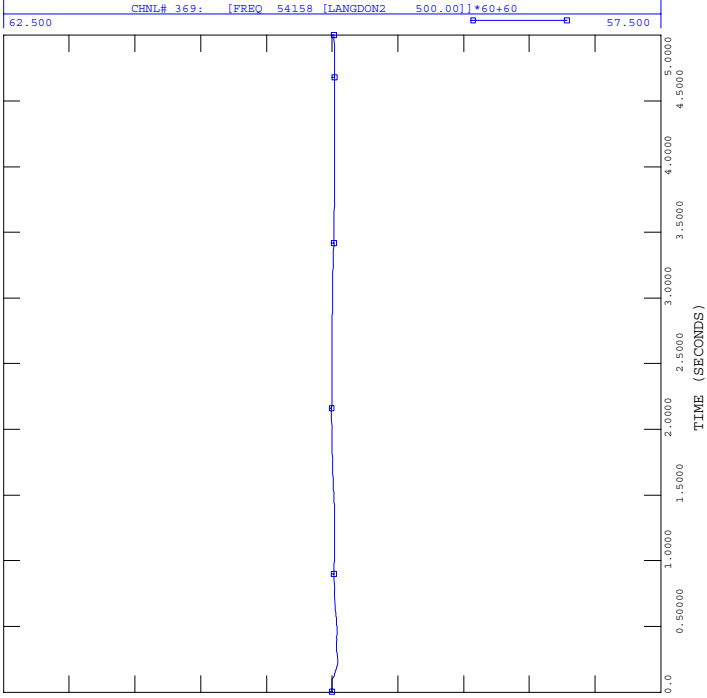






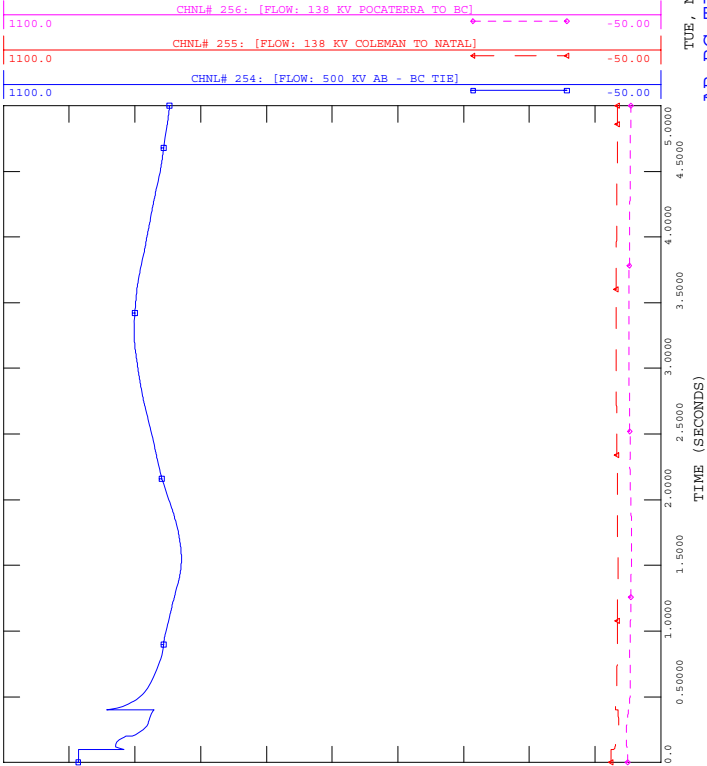
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C031_1ph_North_Leth-Matl-1_V82.out

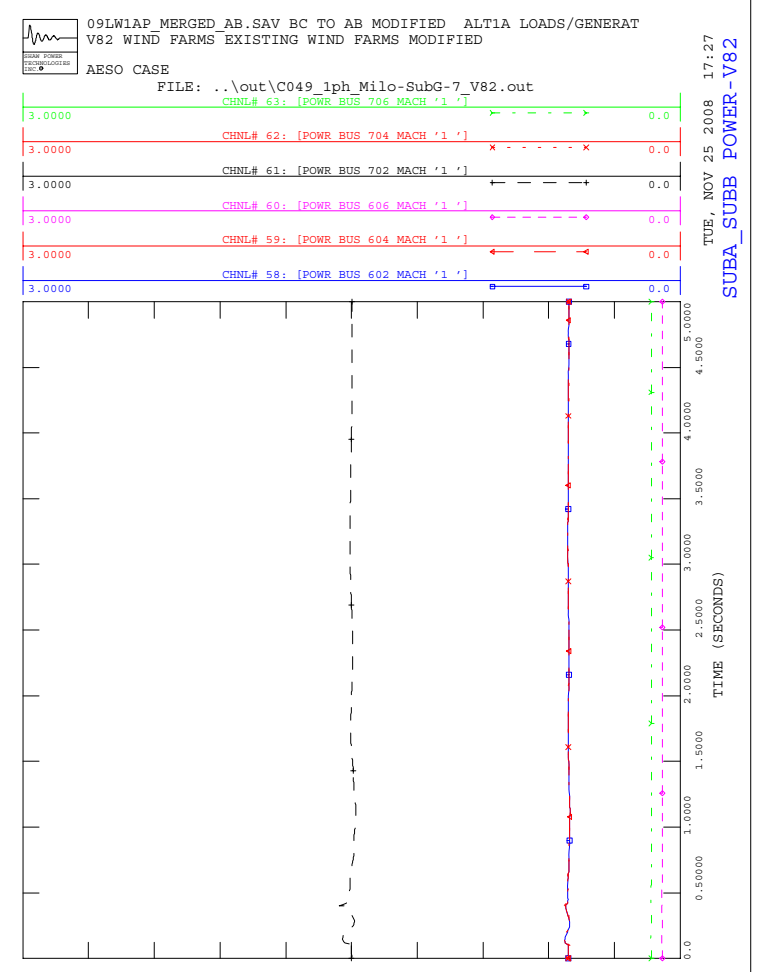
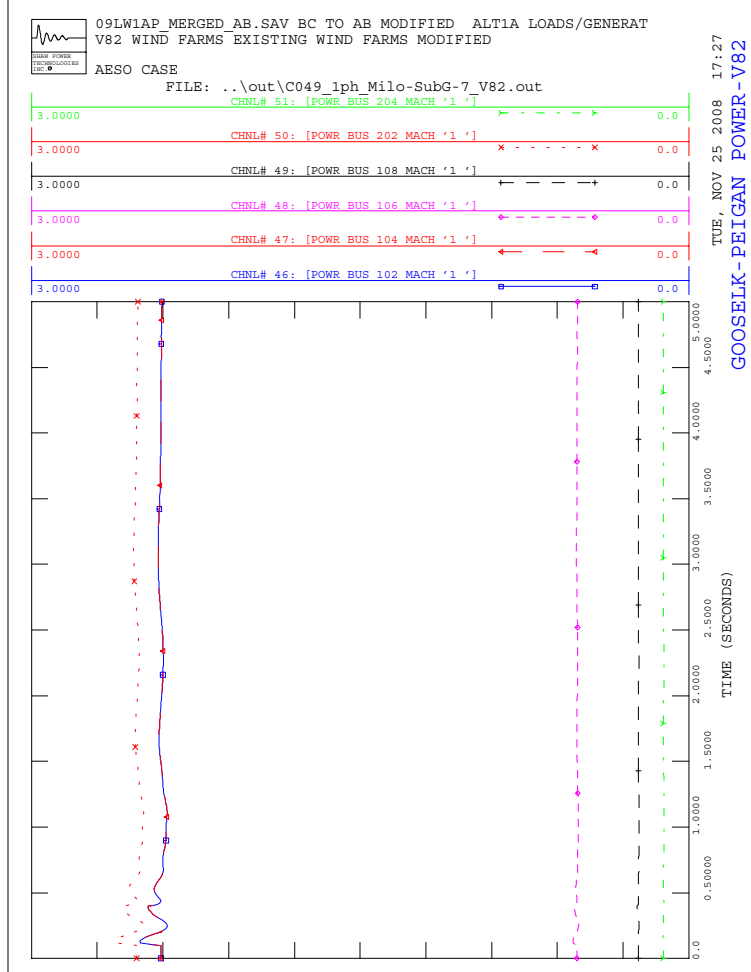
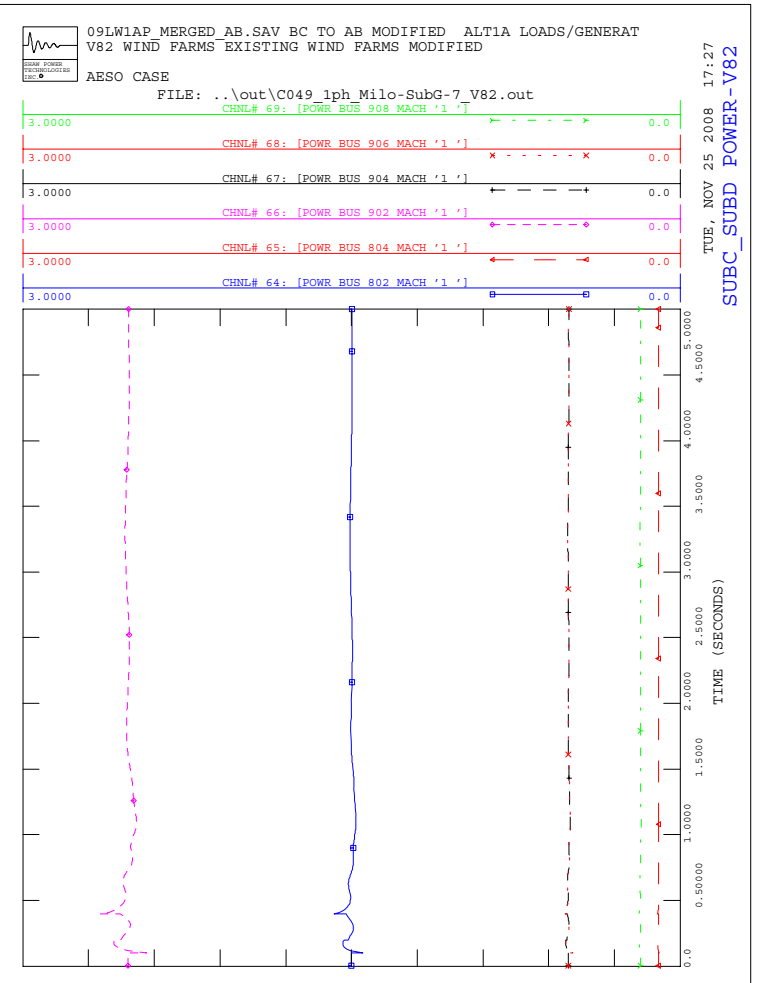
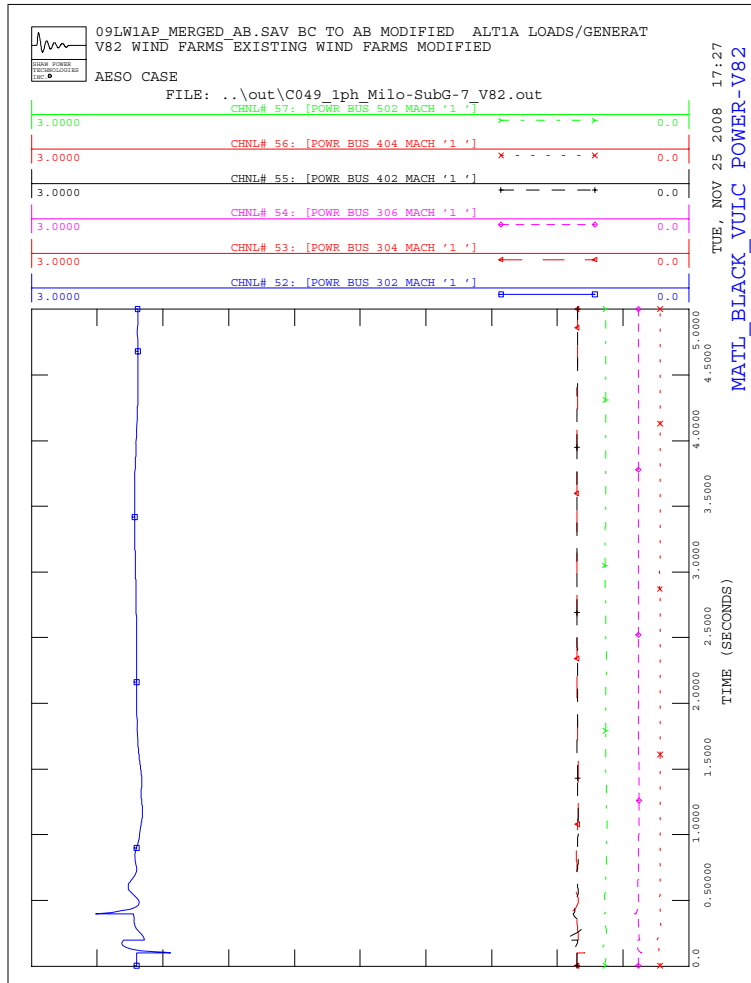
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82



09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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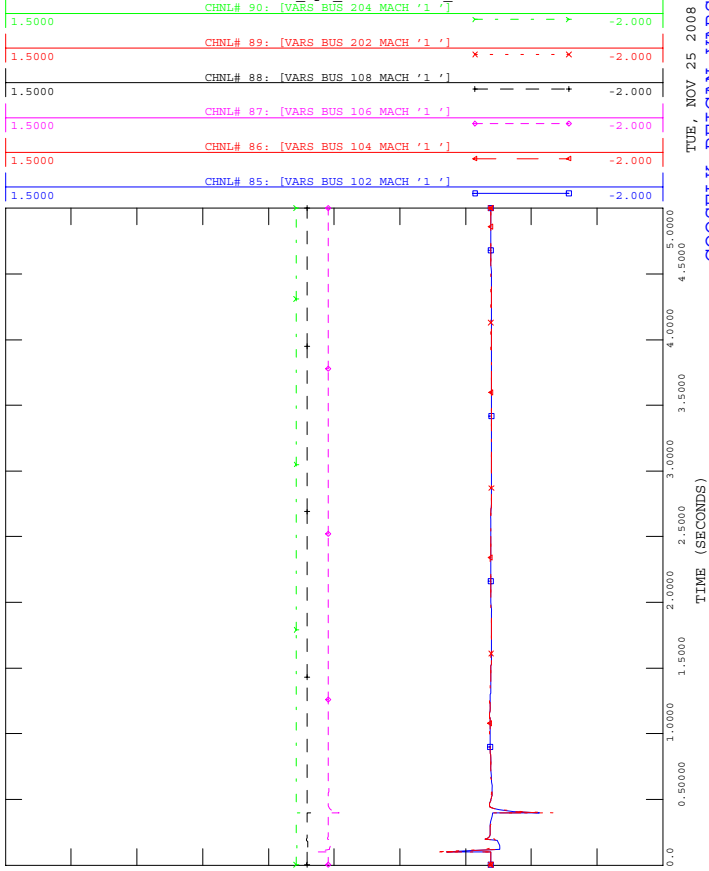
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AB_BC_TIE_FLOWS-V82





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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

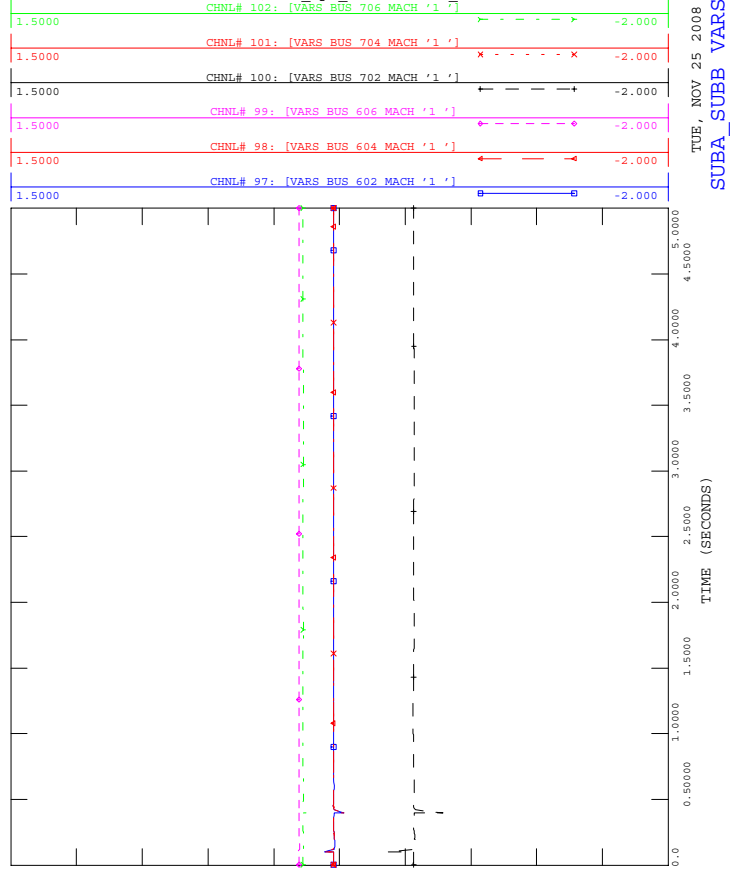
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TUE, NOV 25 2008 17:27
GOOSELK-PEIGAN VARS-V82

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AESO CASE

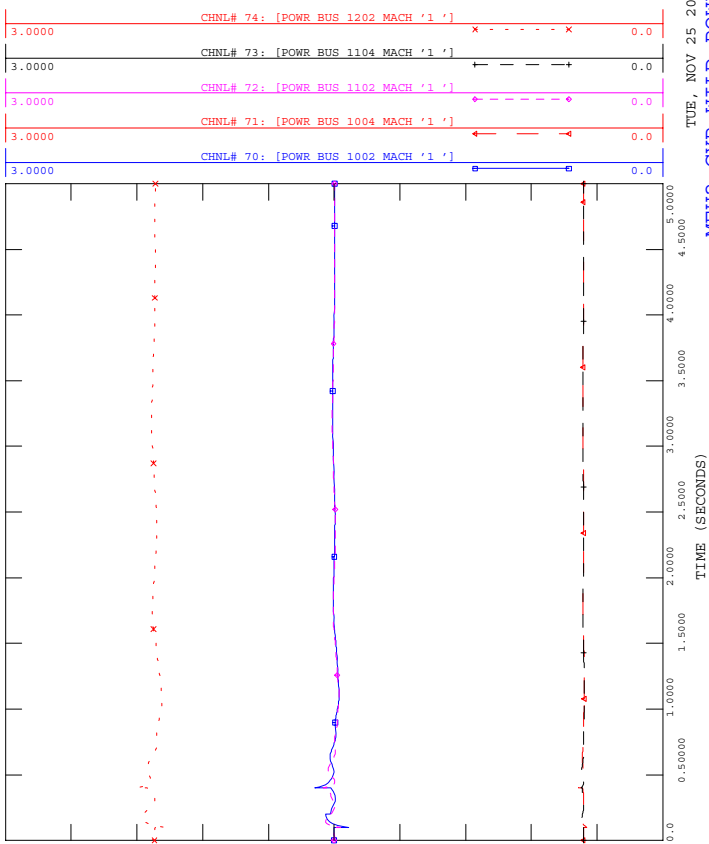
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TUE, NOV 25 2008 17:27
SUBA_SUBB VARS-V82

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AESO CASE

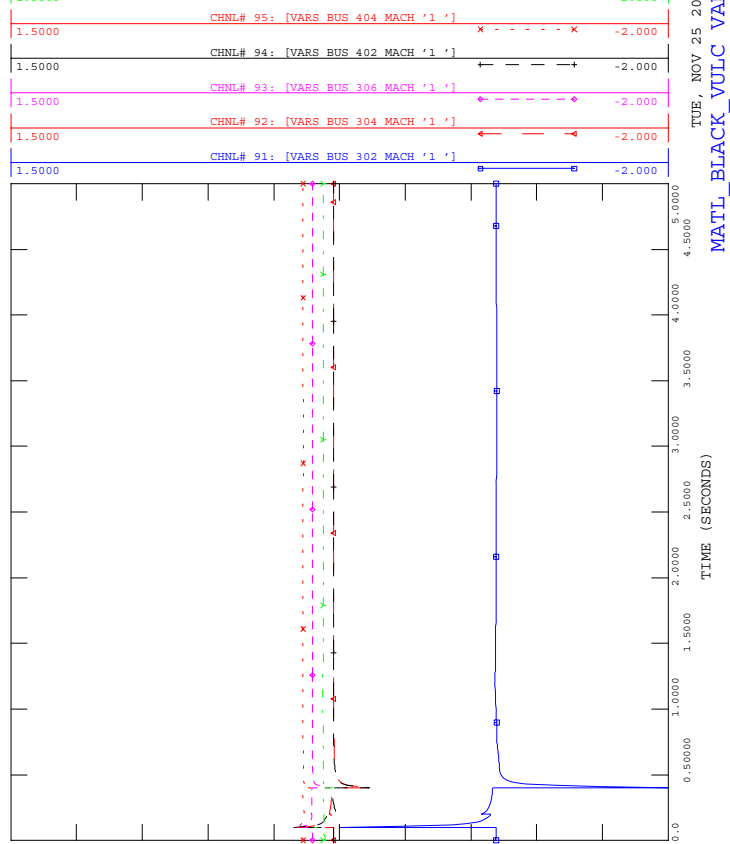
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TUE, NOV 25 2008 17:27
MEH2_CYP_WILD_POWER-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

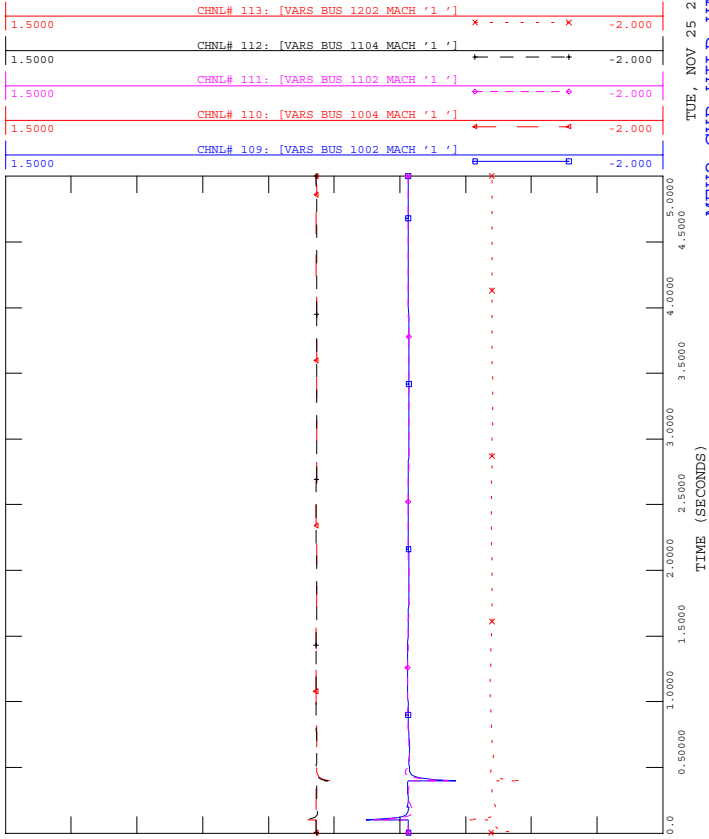
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MATL_BLACK_VULC VARS-V82

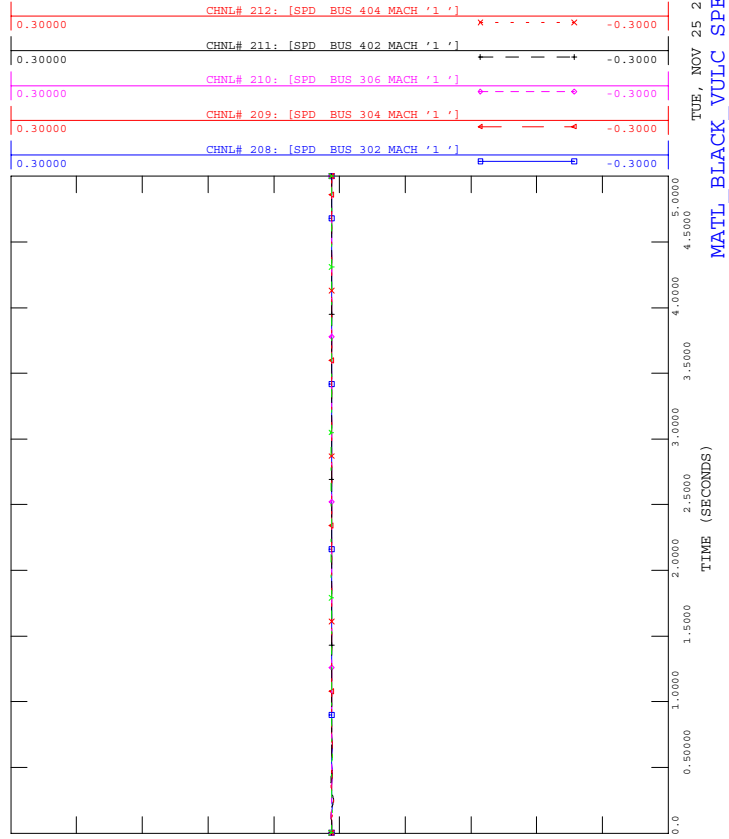
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AESO CASE

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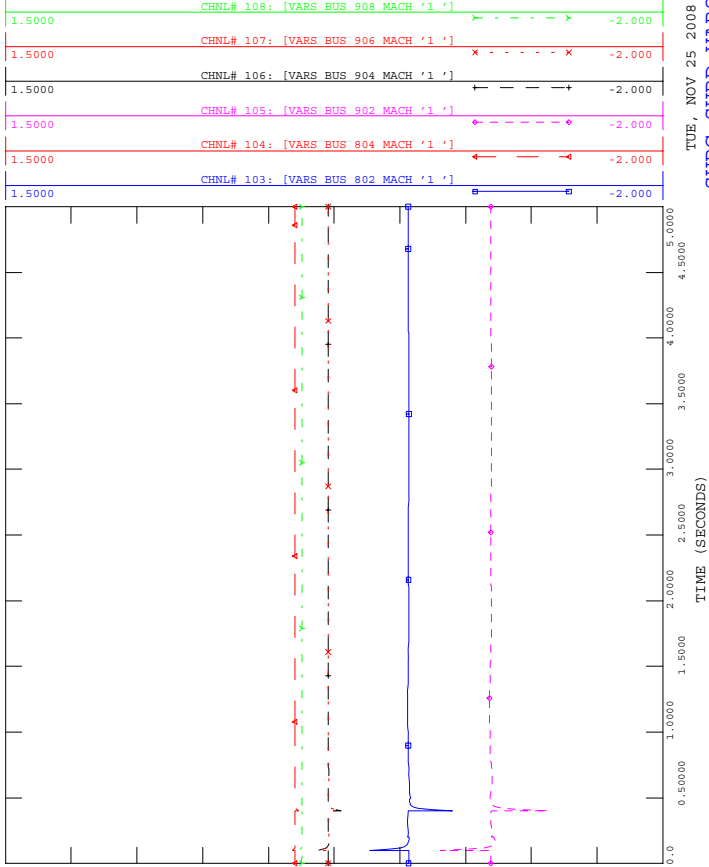
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AESO CASE

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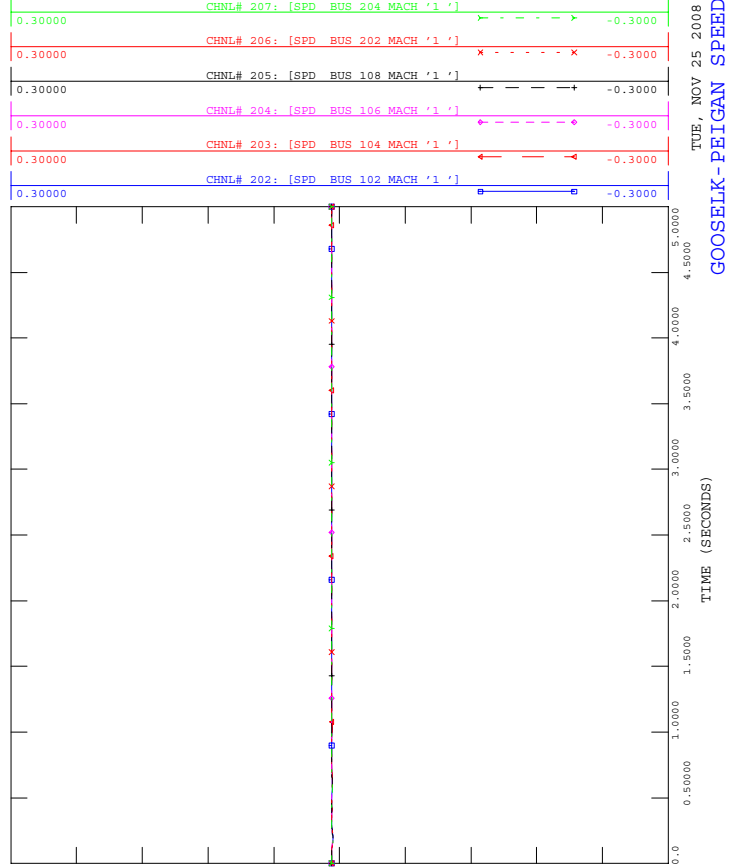
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

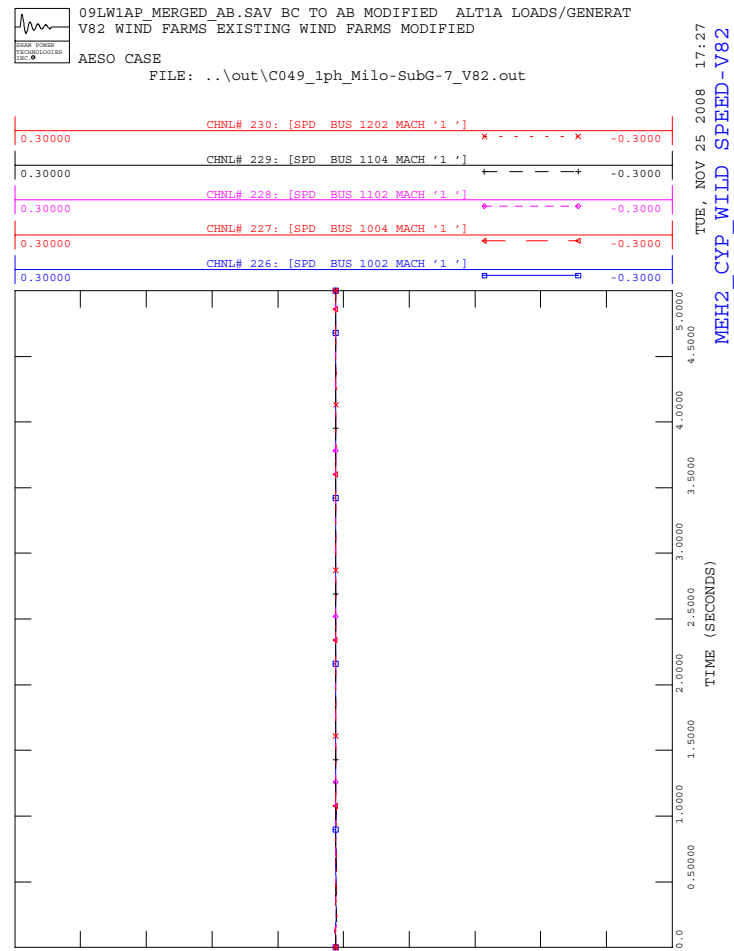
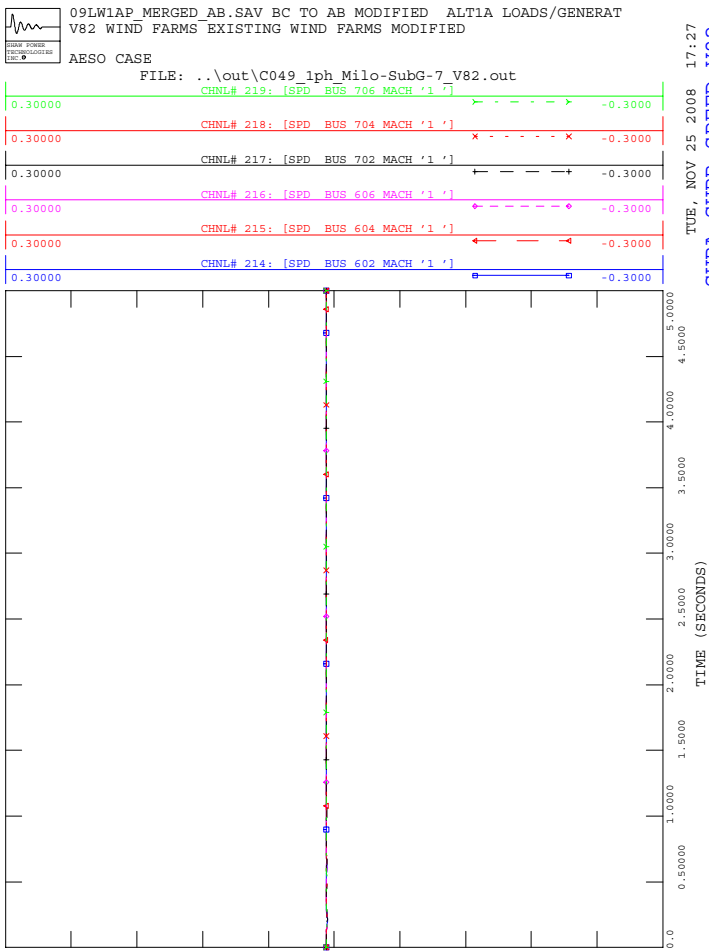
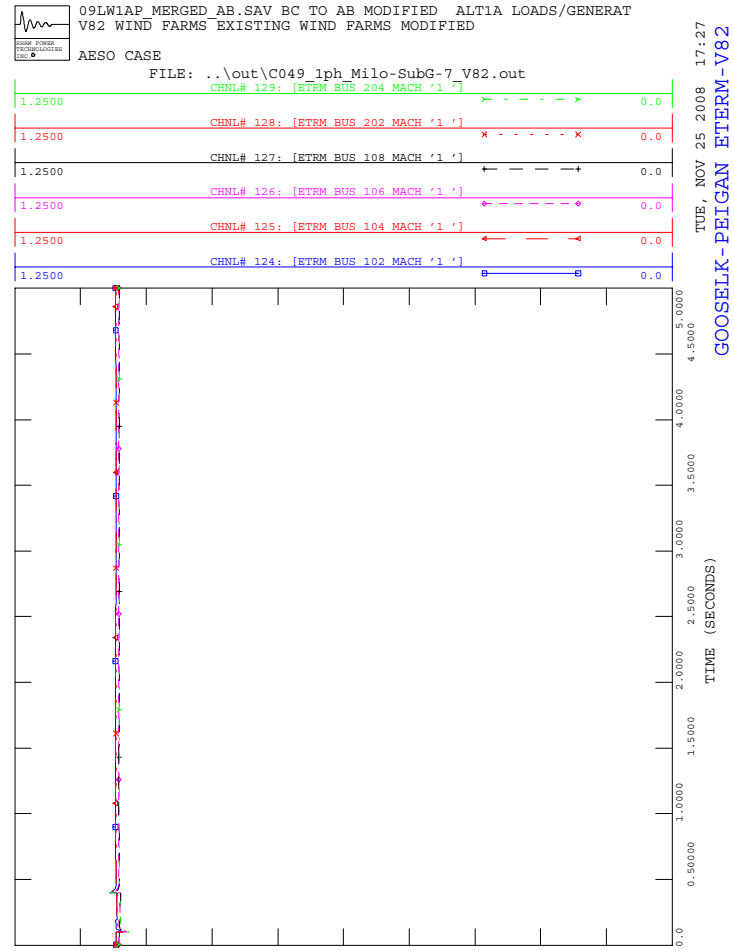
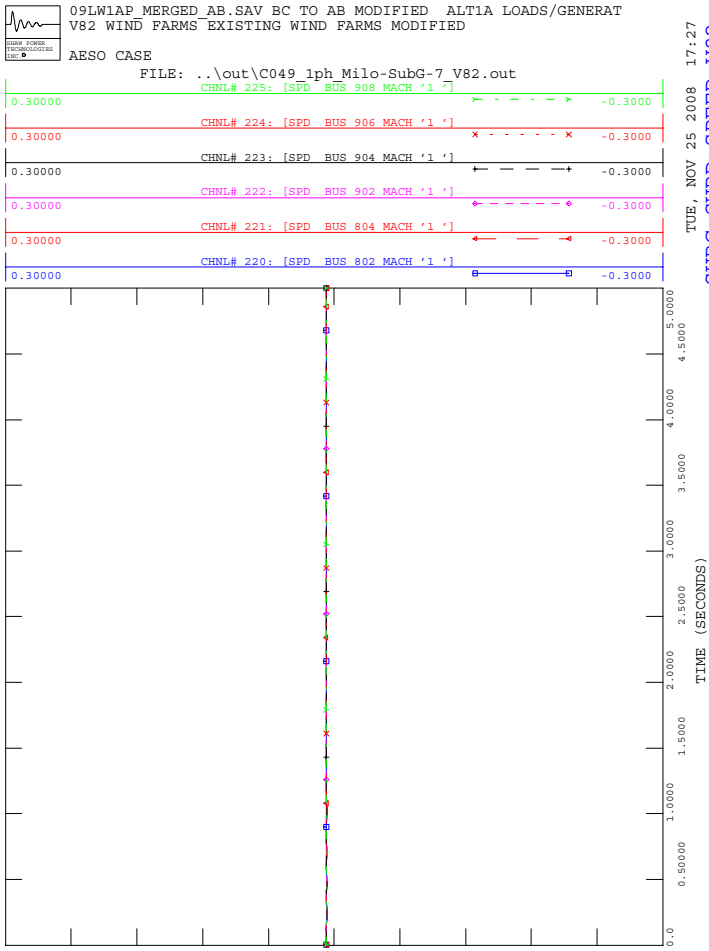
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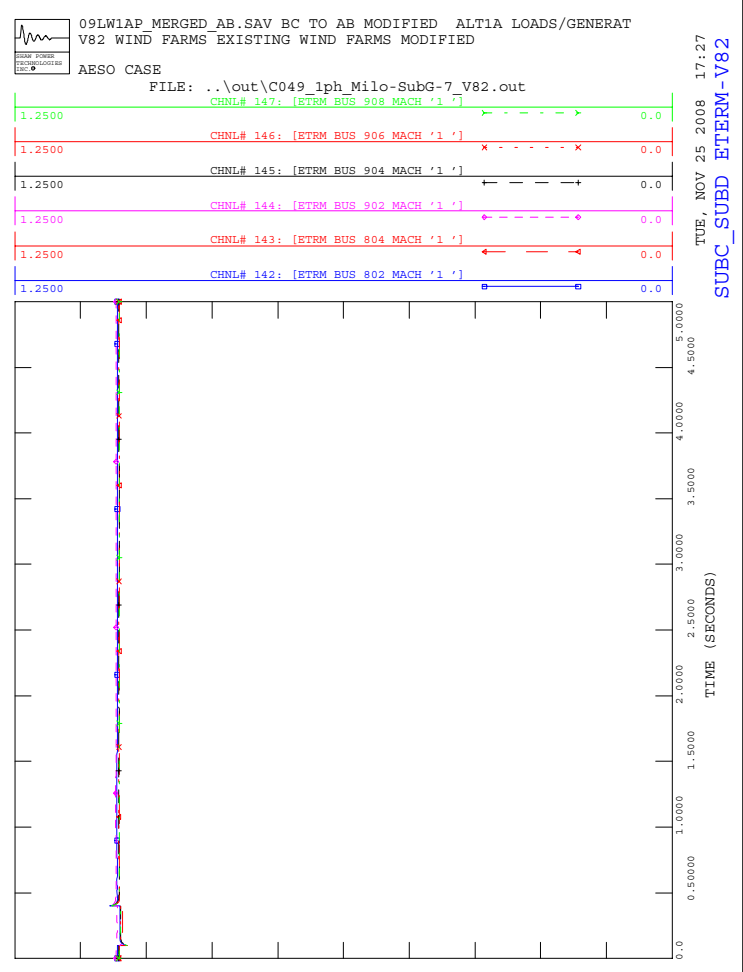
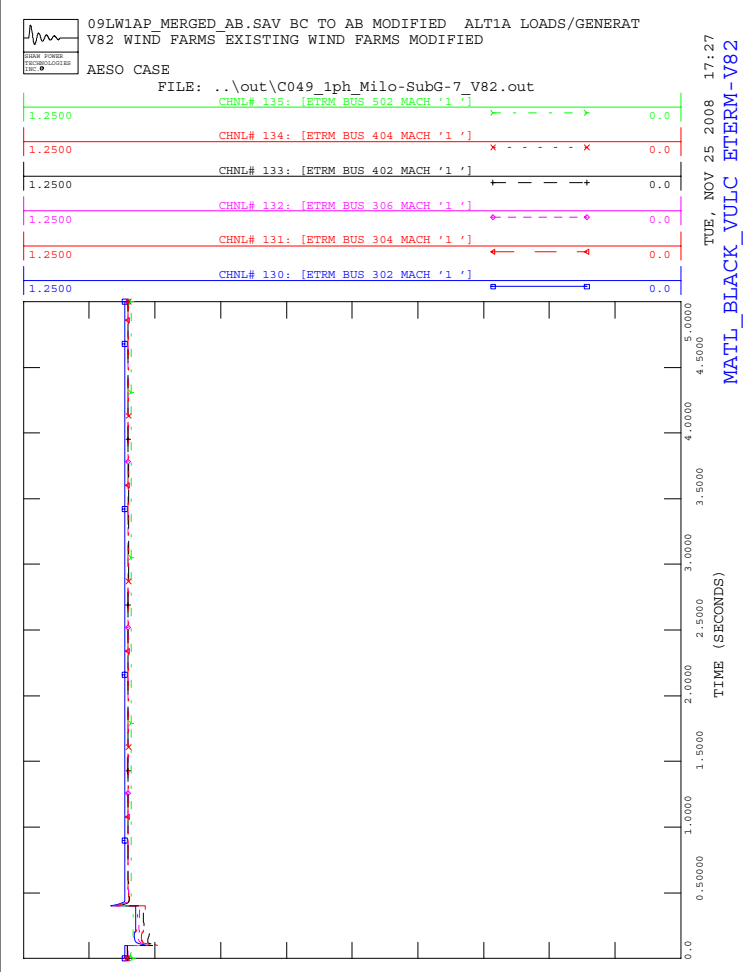
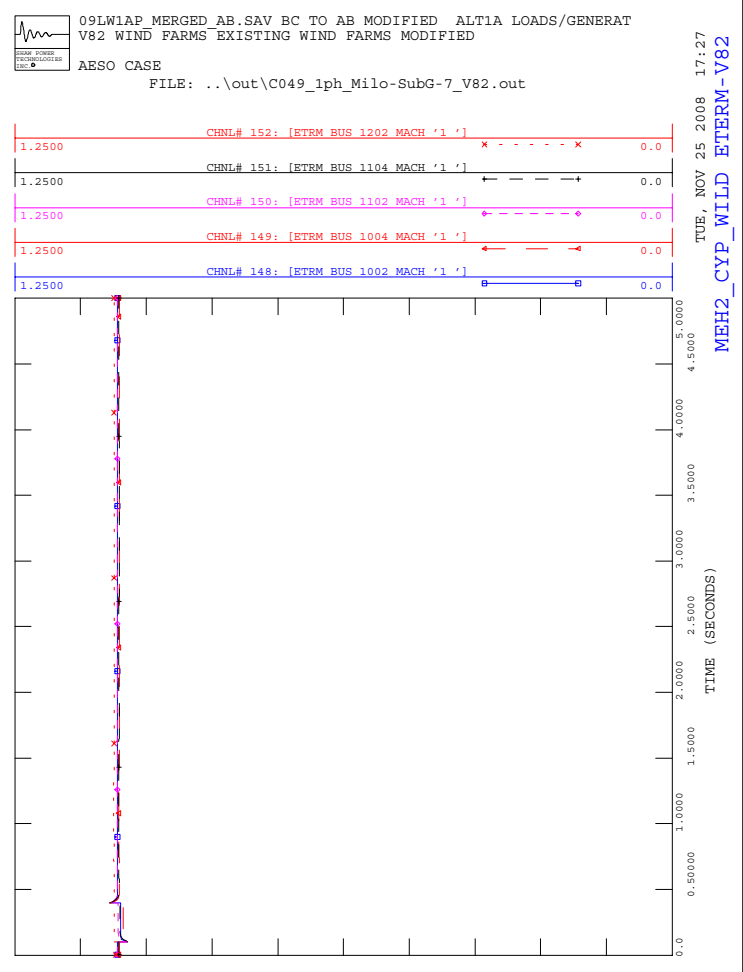
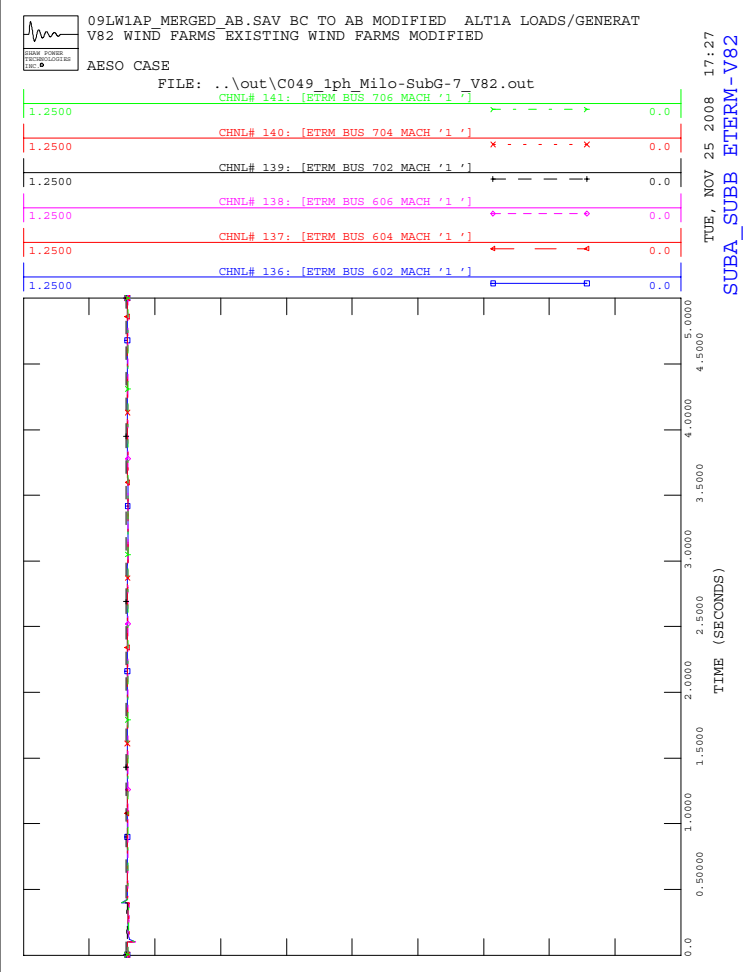


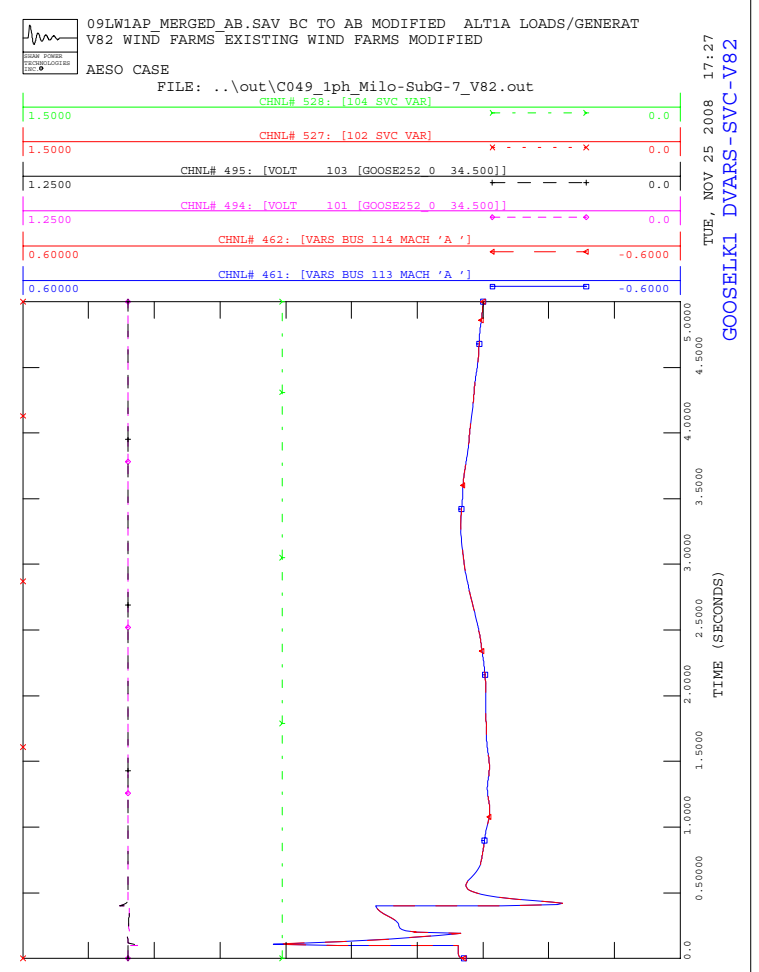
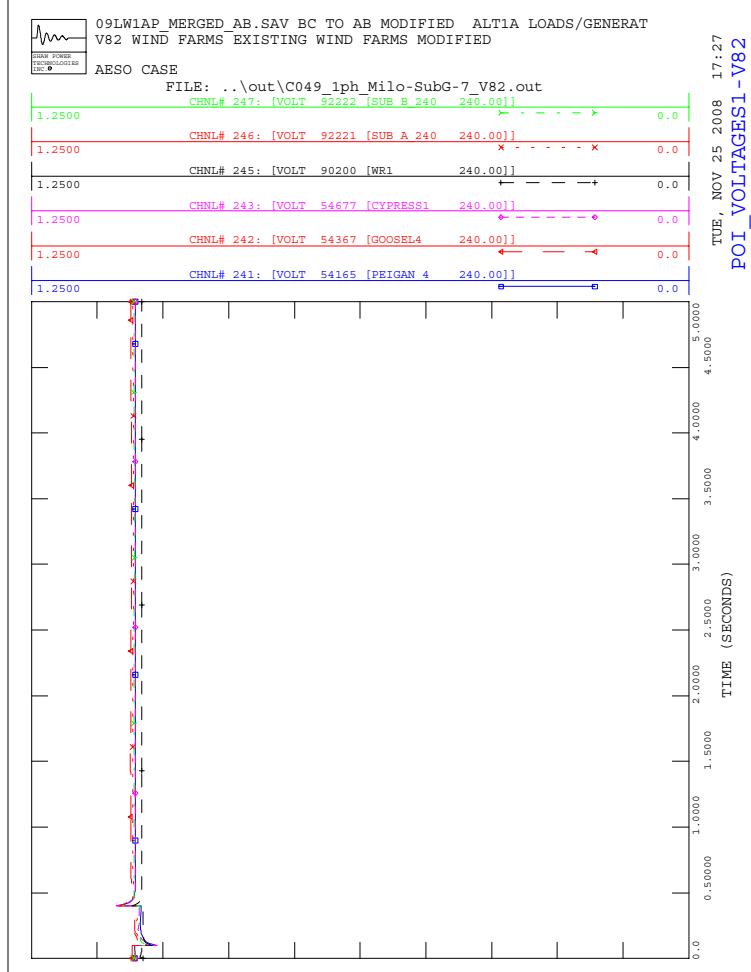
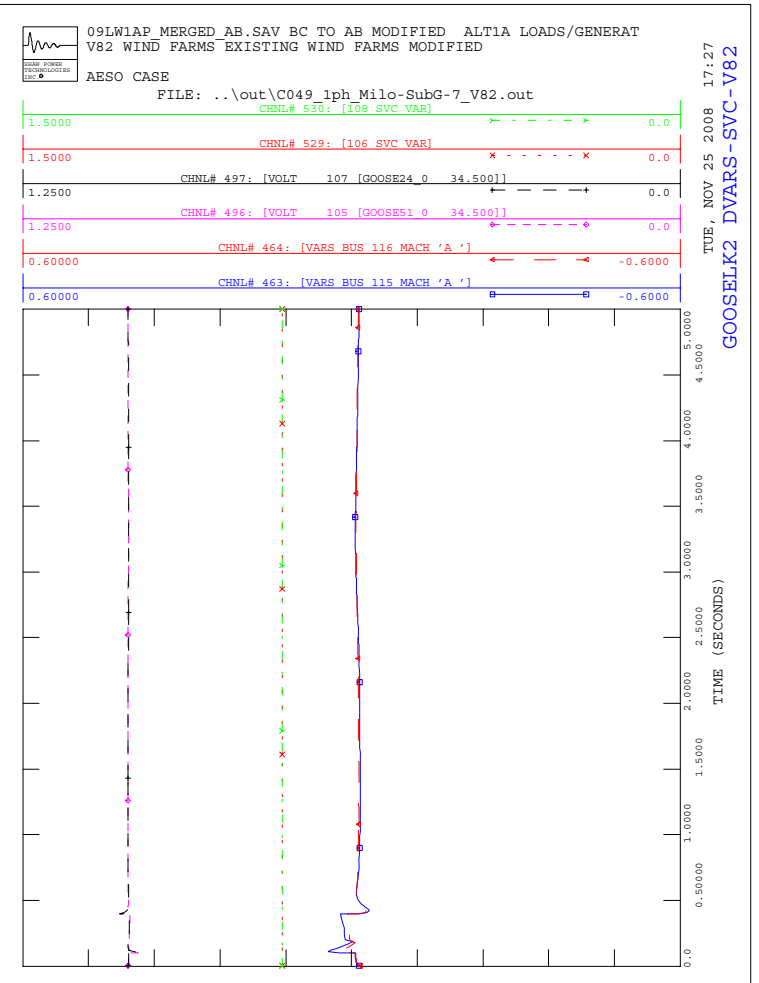
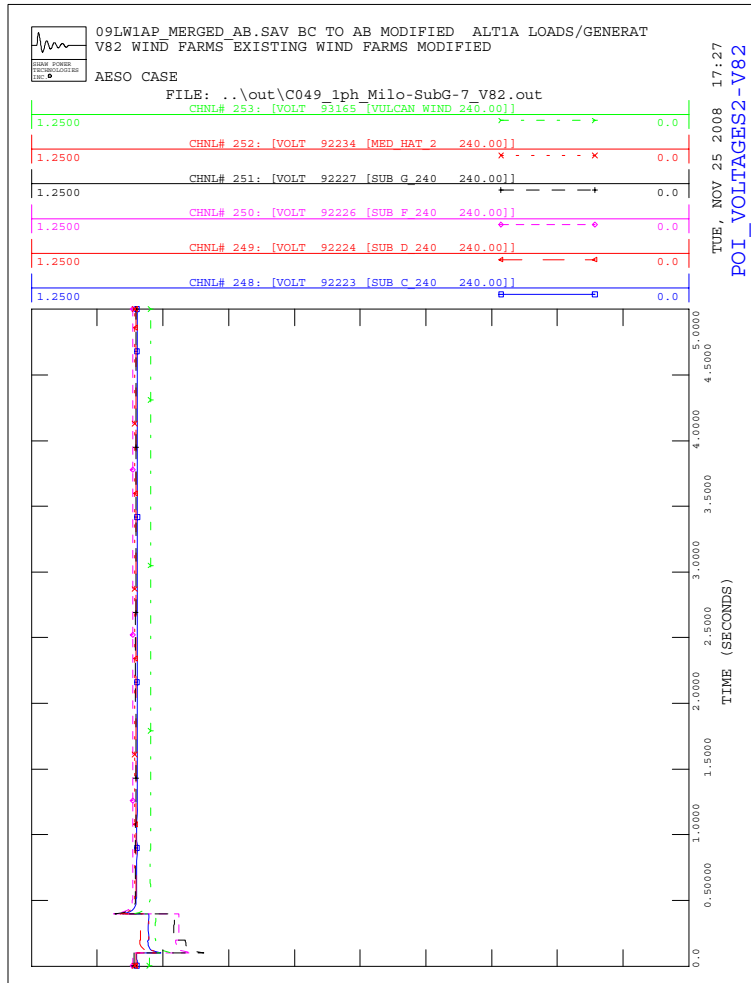
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\C049_1ph_Milo-SubG-7_V82.out



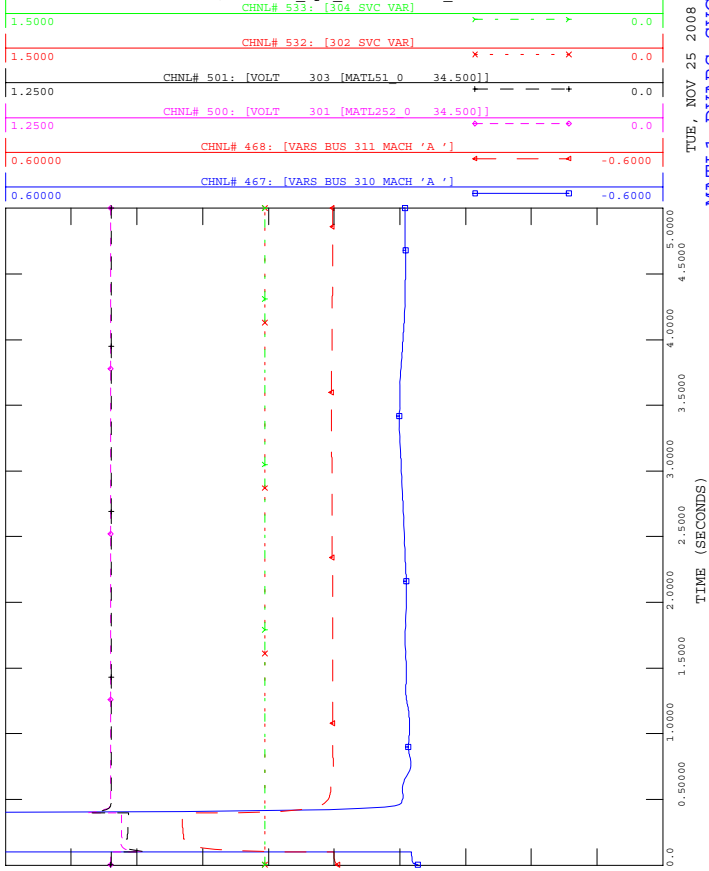






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 AESO CASE

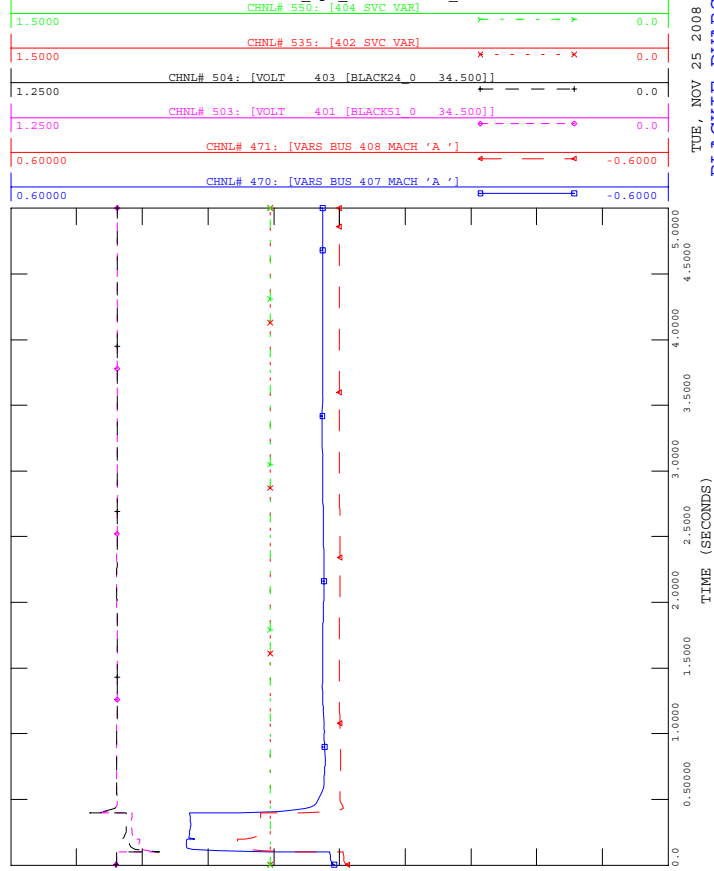
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TUE, NOV 25 2008 17:27
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

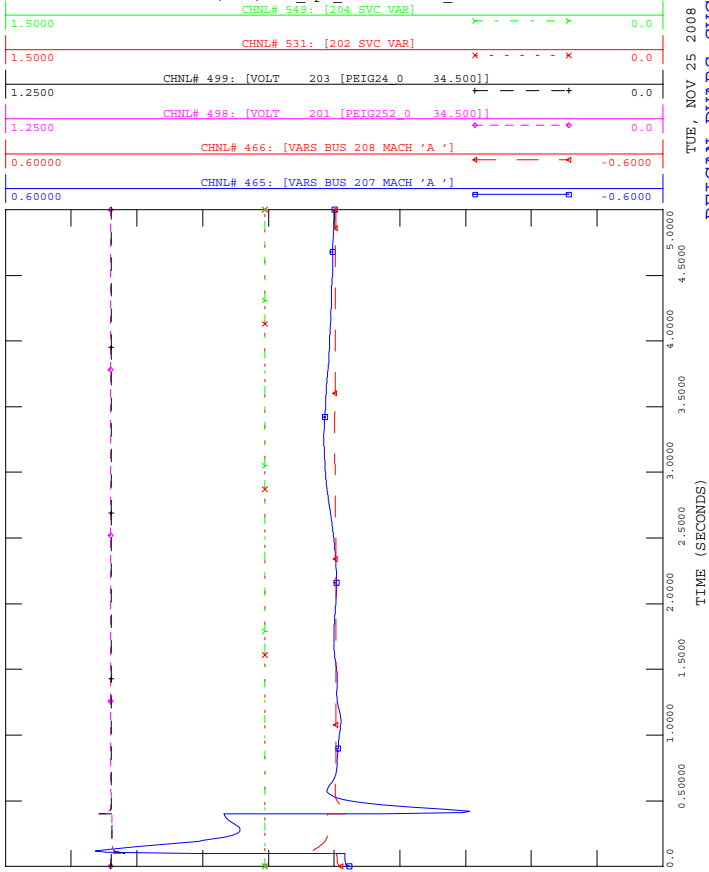
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TUE, NOV 25 2008 17:27
 BLACKIE DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

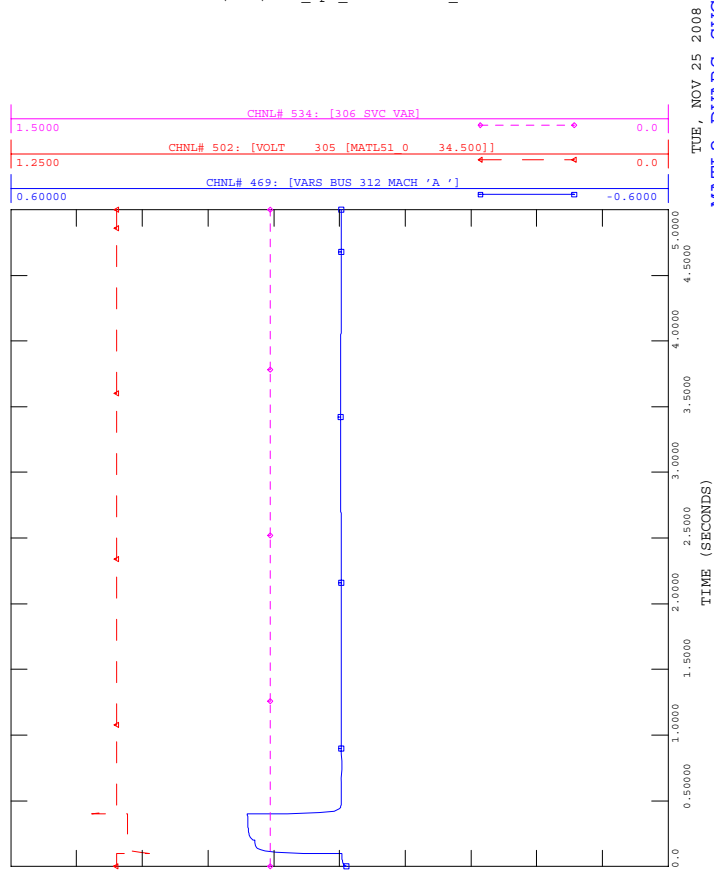
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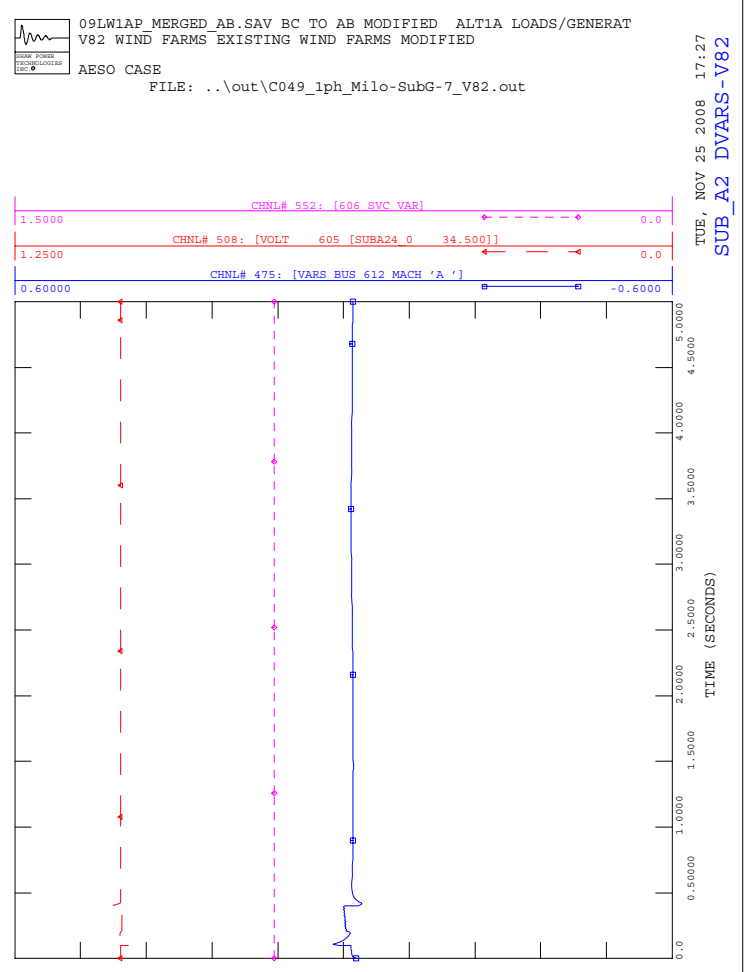
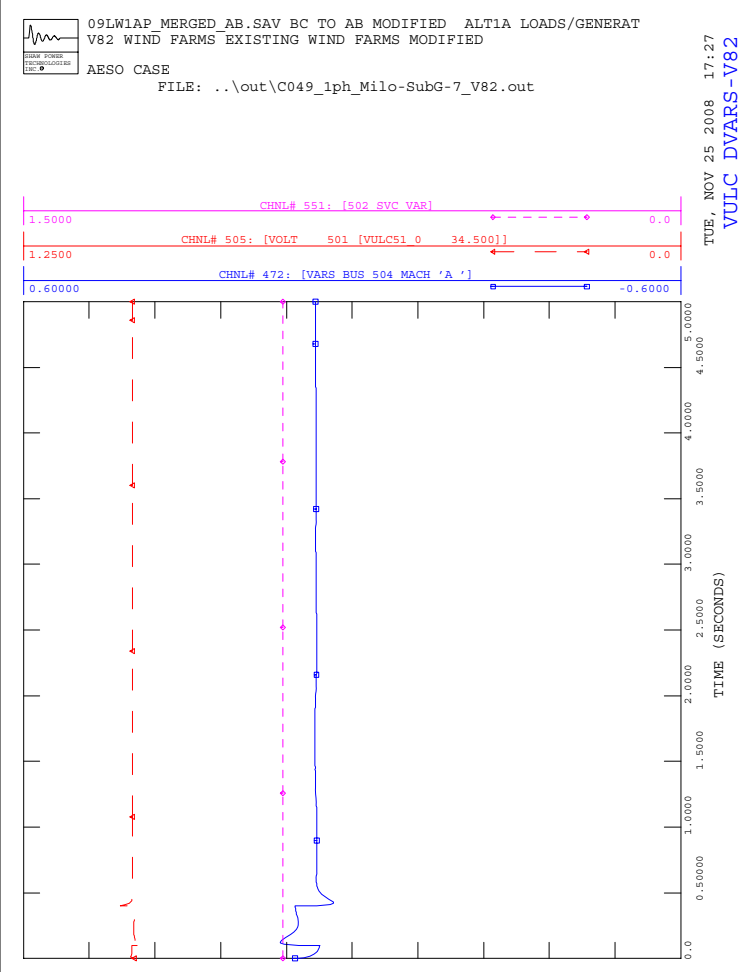
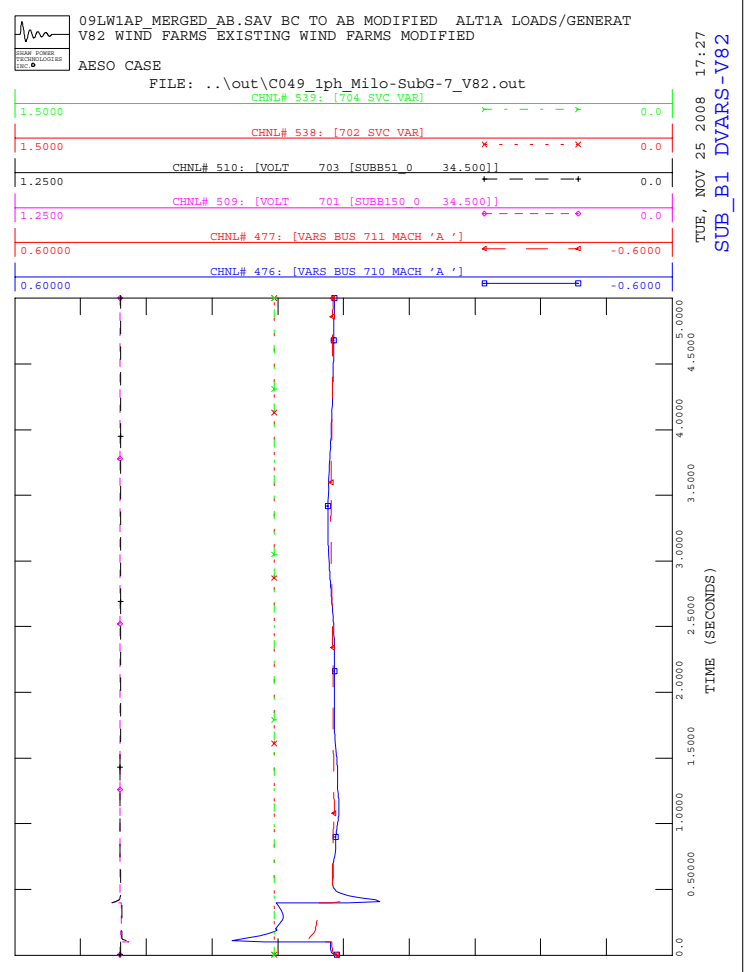
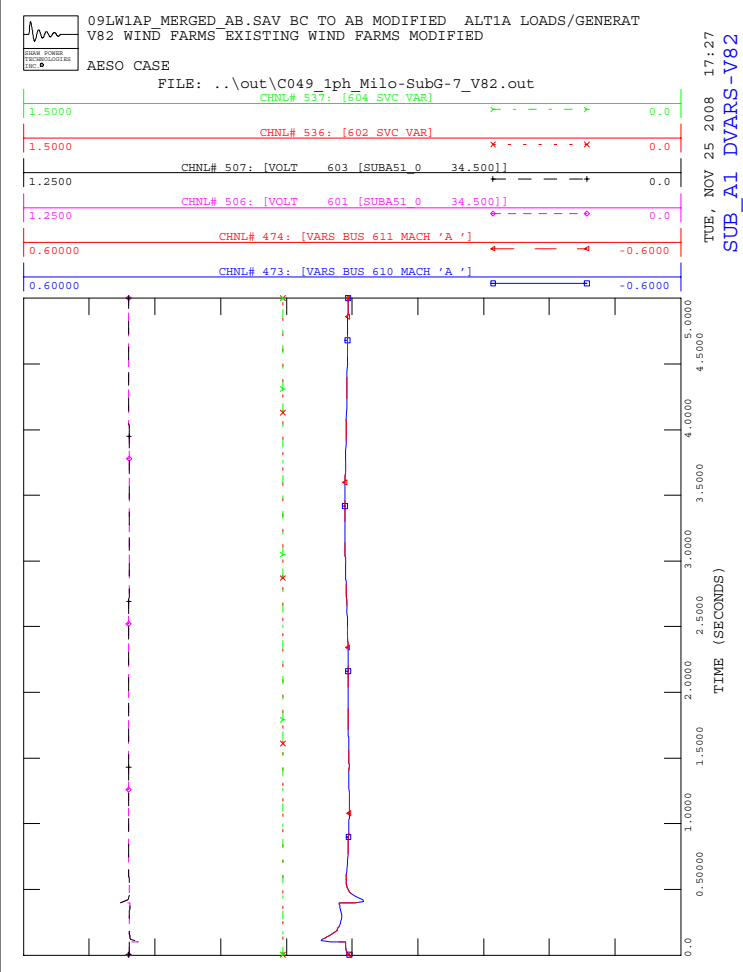
TUE, NOV 25 2008 17:27
 PEIGAN DVARS-SVC-V82

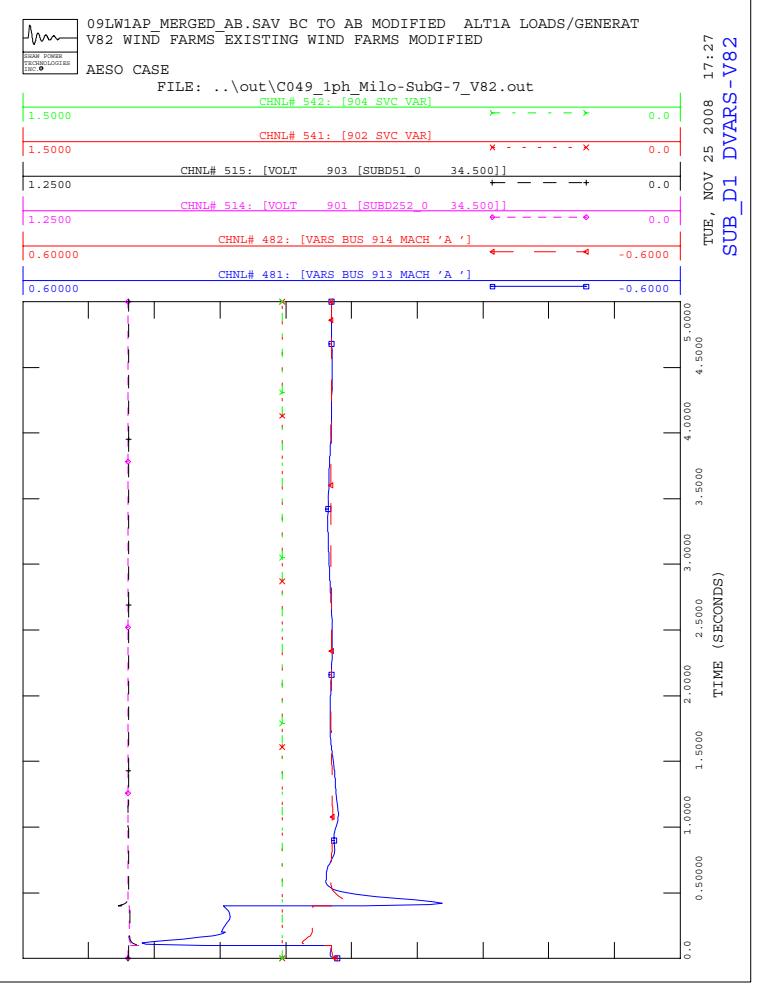
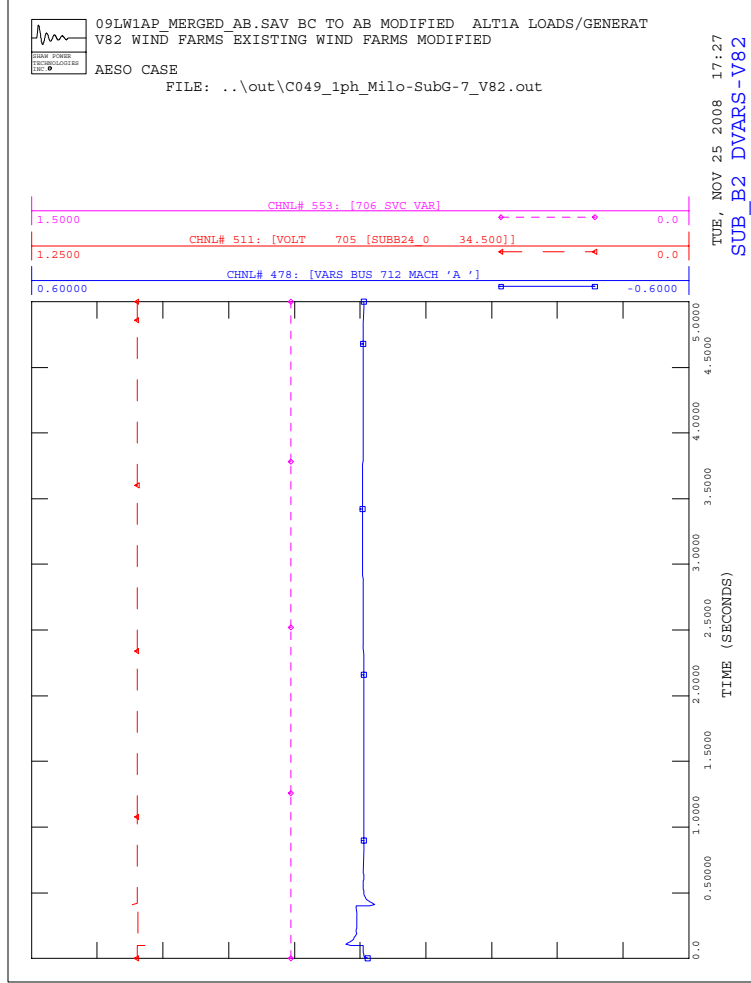
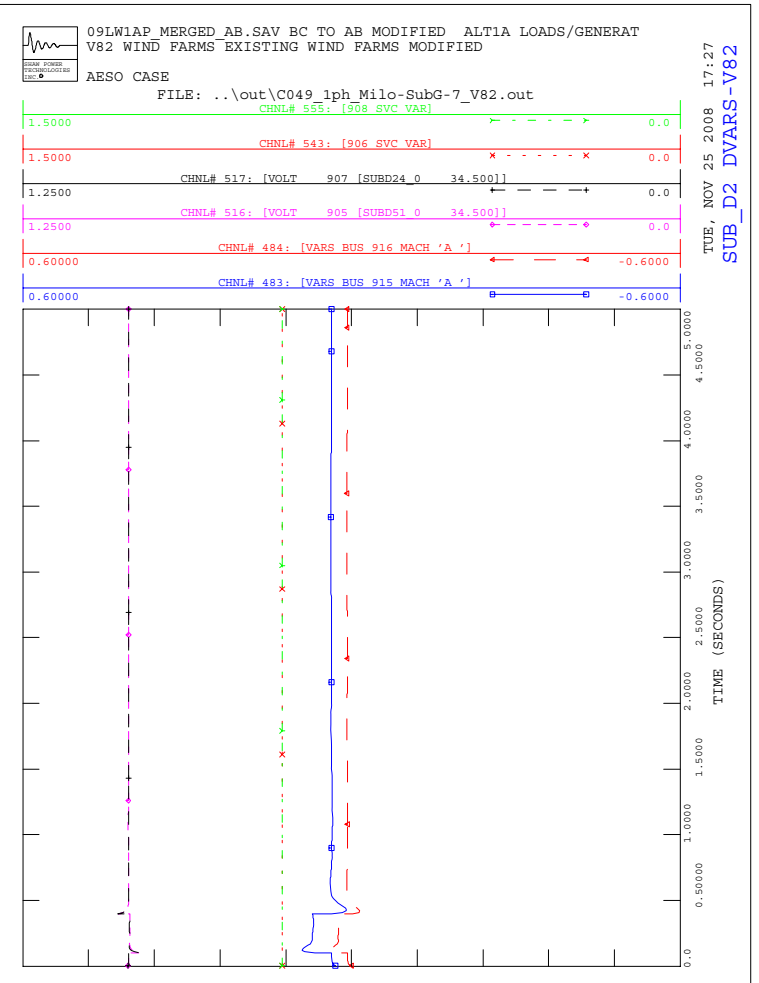
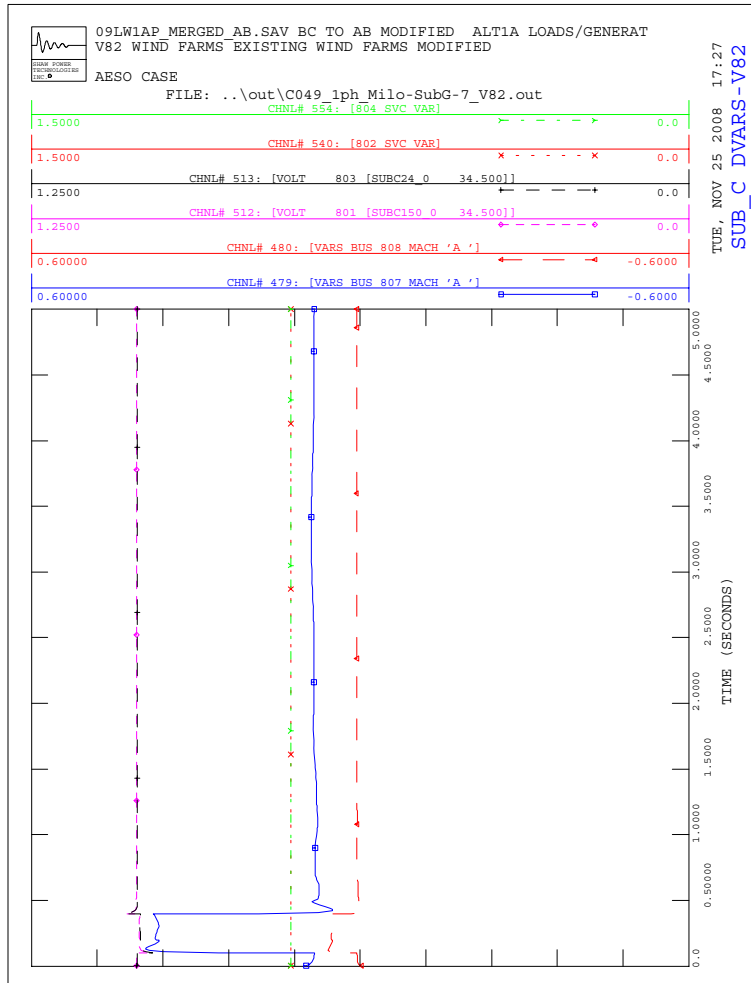
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

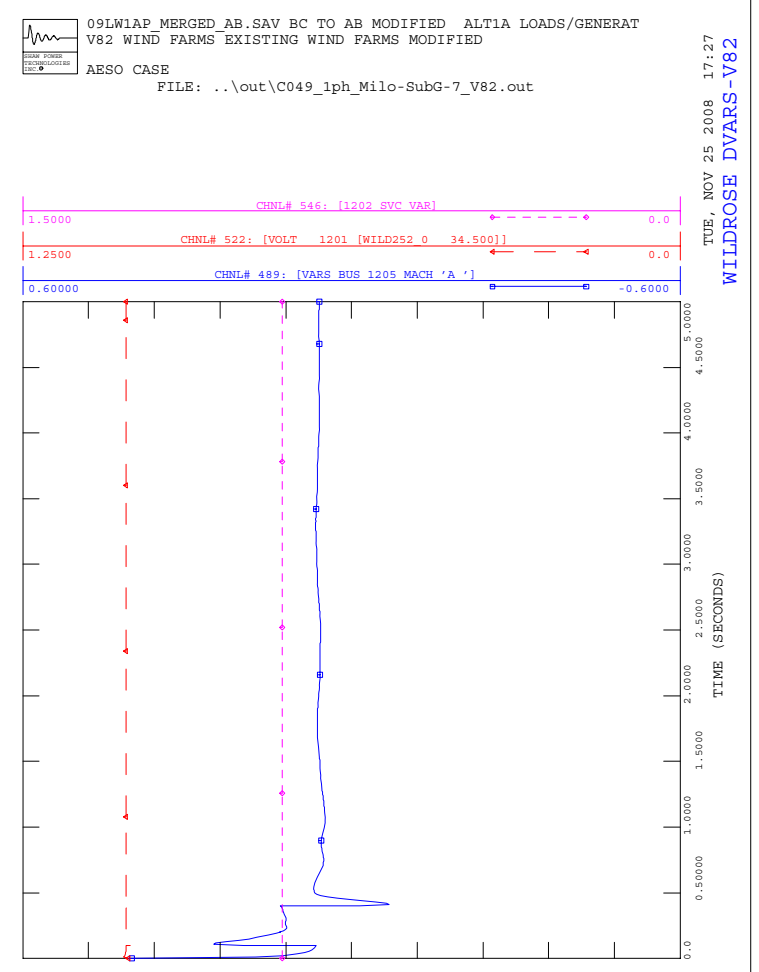
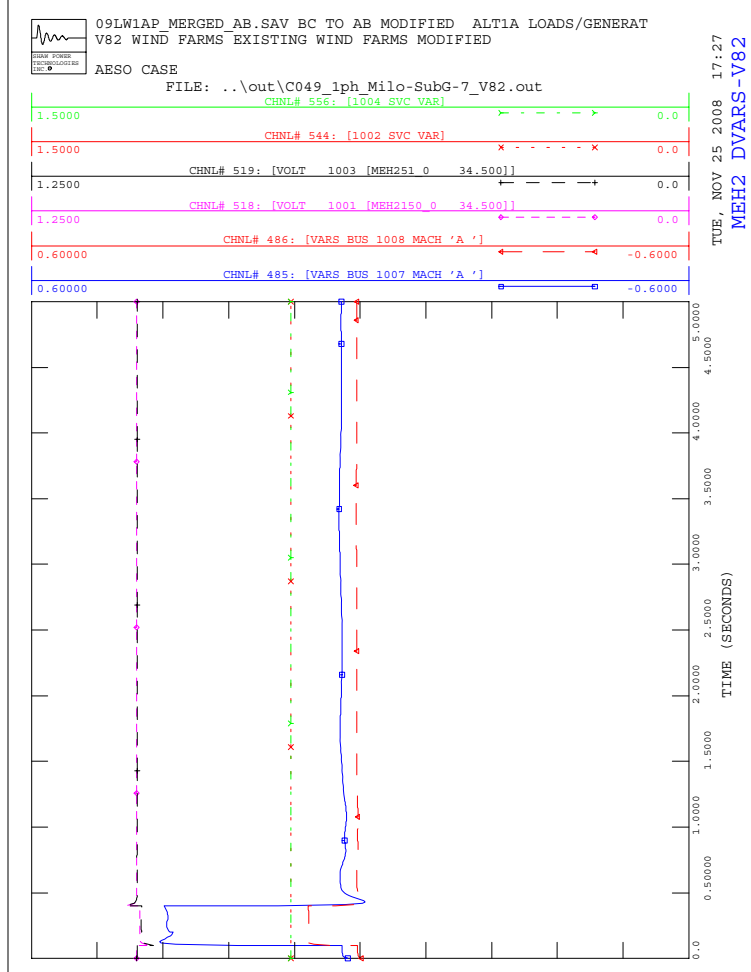
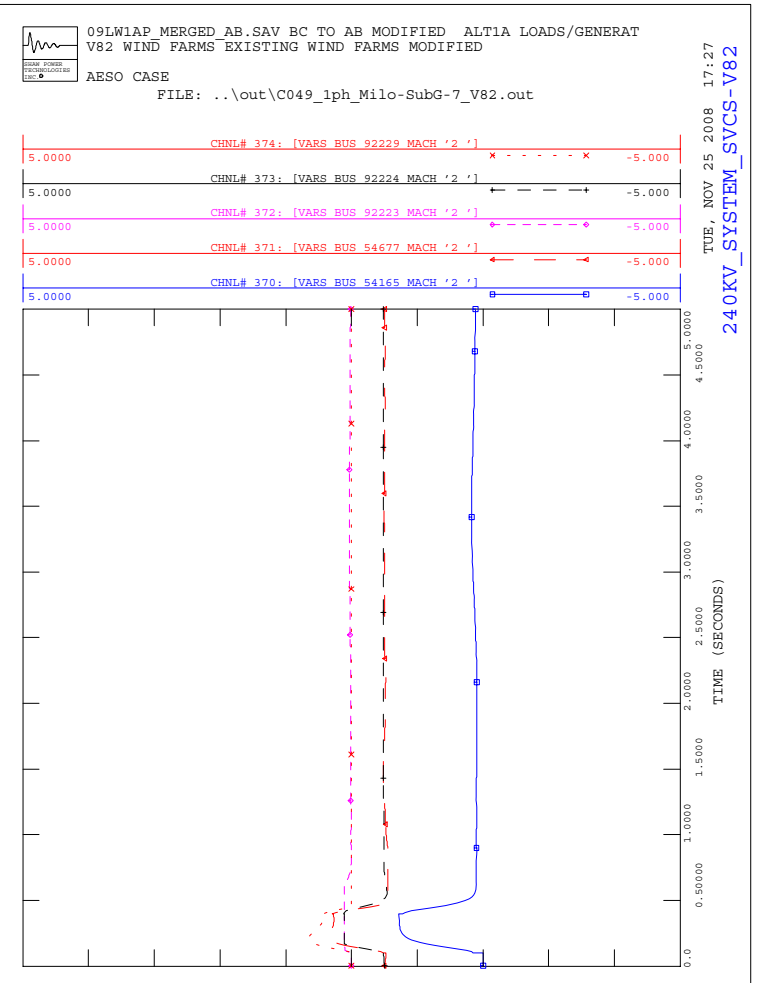
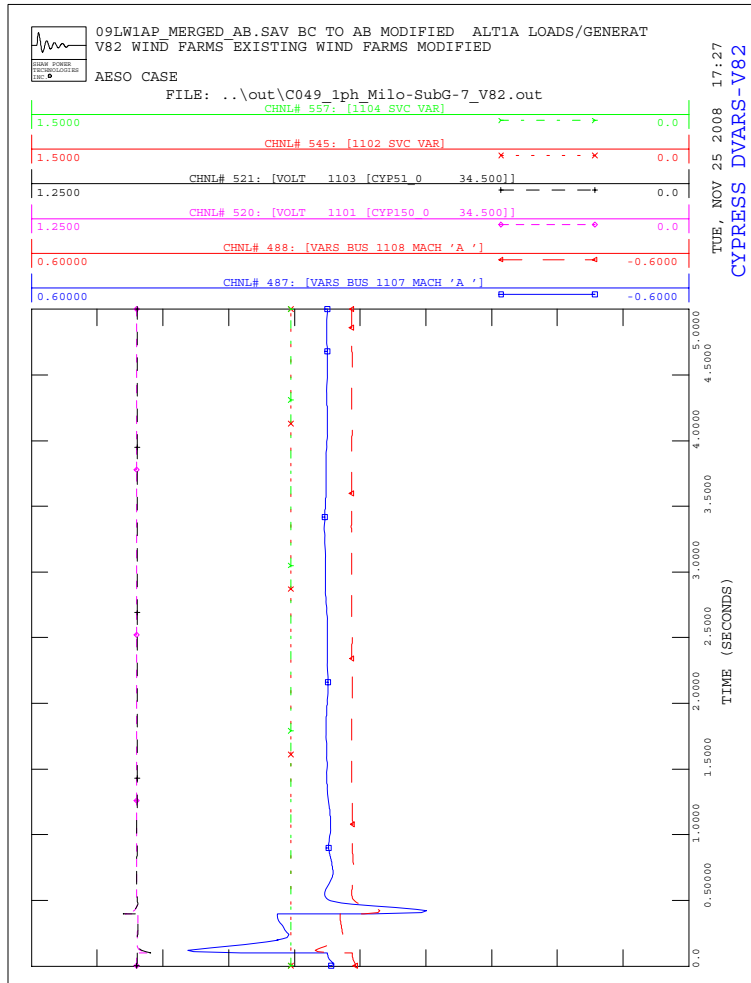
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TUE, NOV 25 2008 17:27
 MATL2 DVARS-SVC-V82



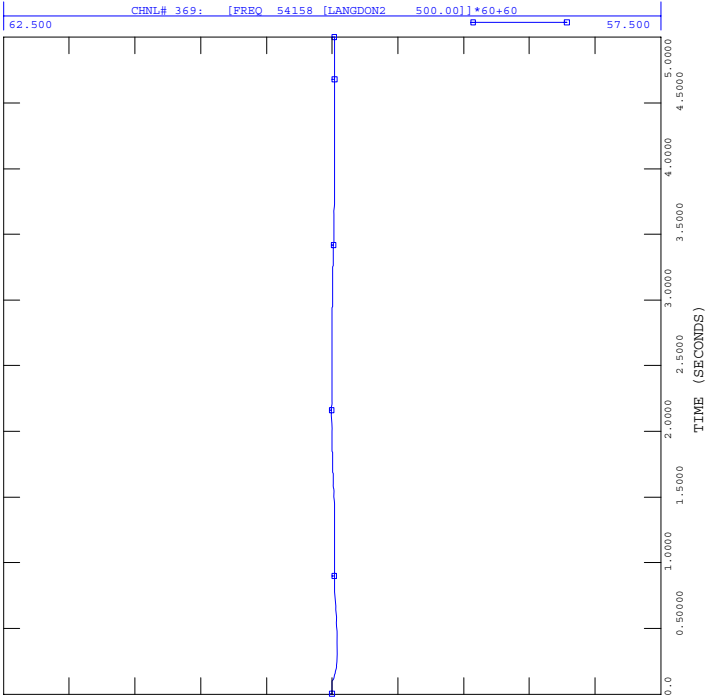






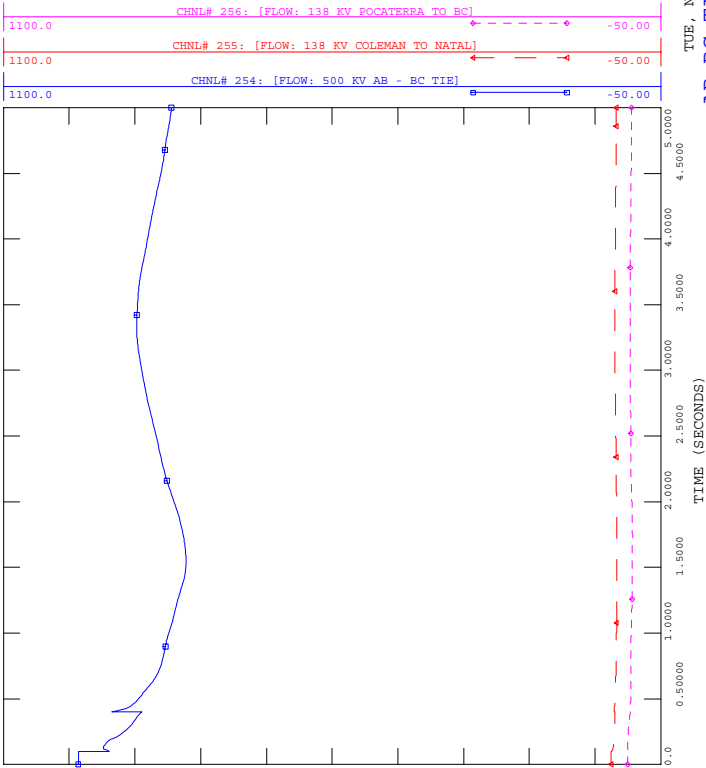
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C049_1ph_Milo-SubG-7_V82.out

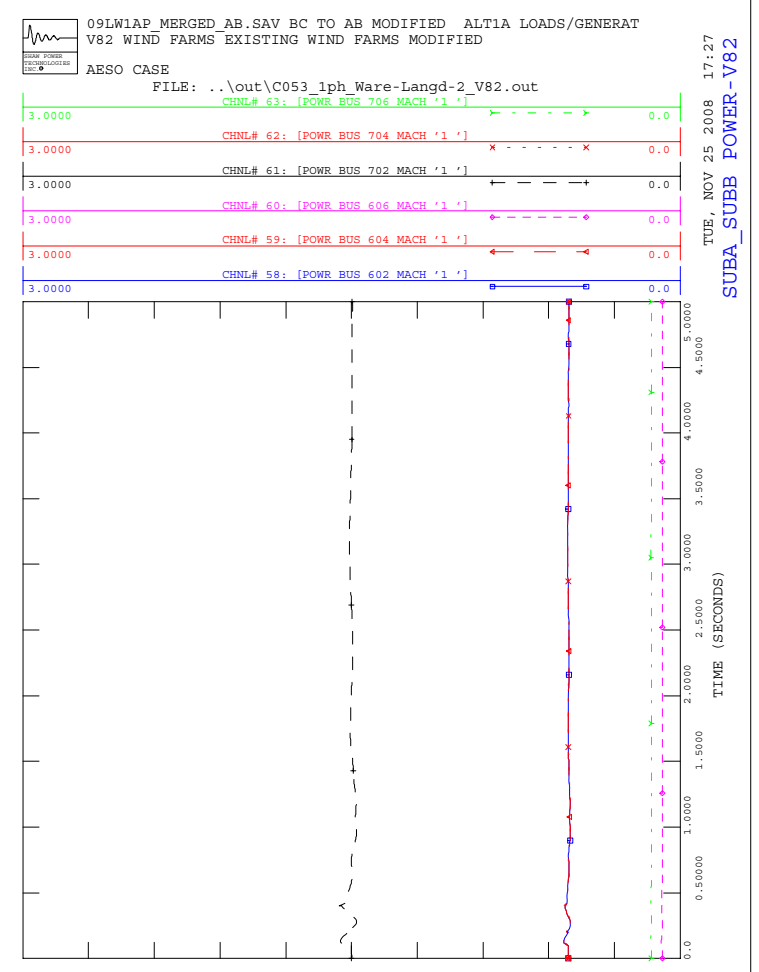
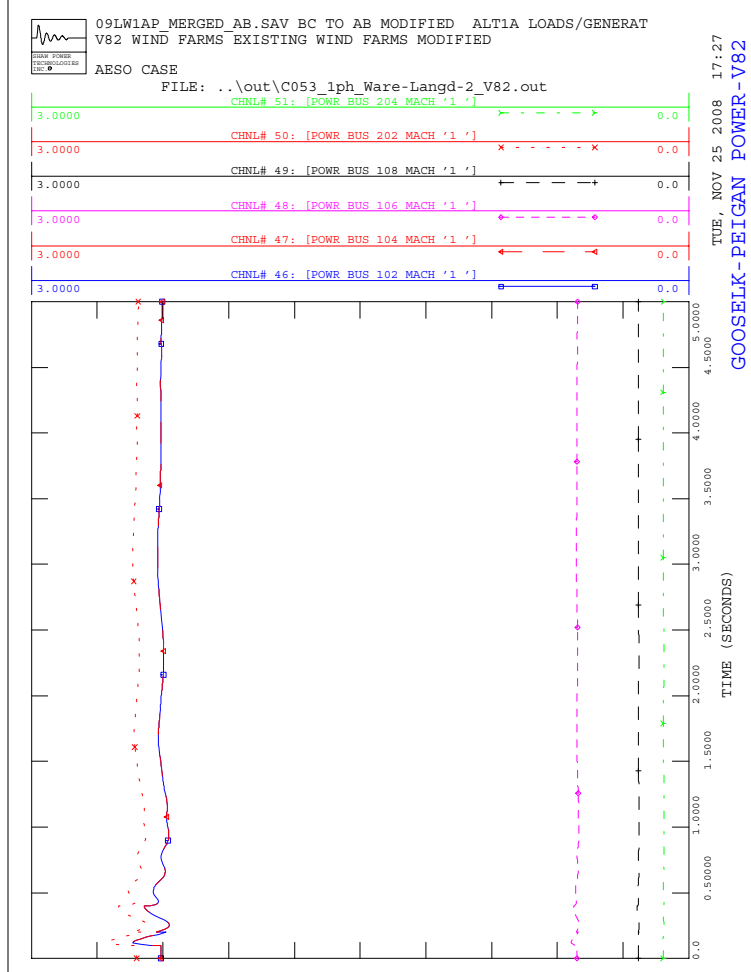
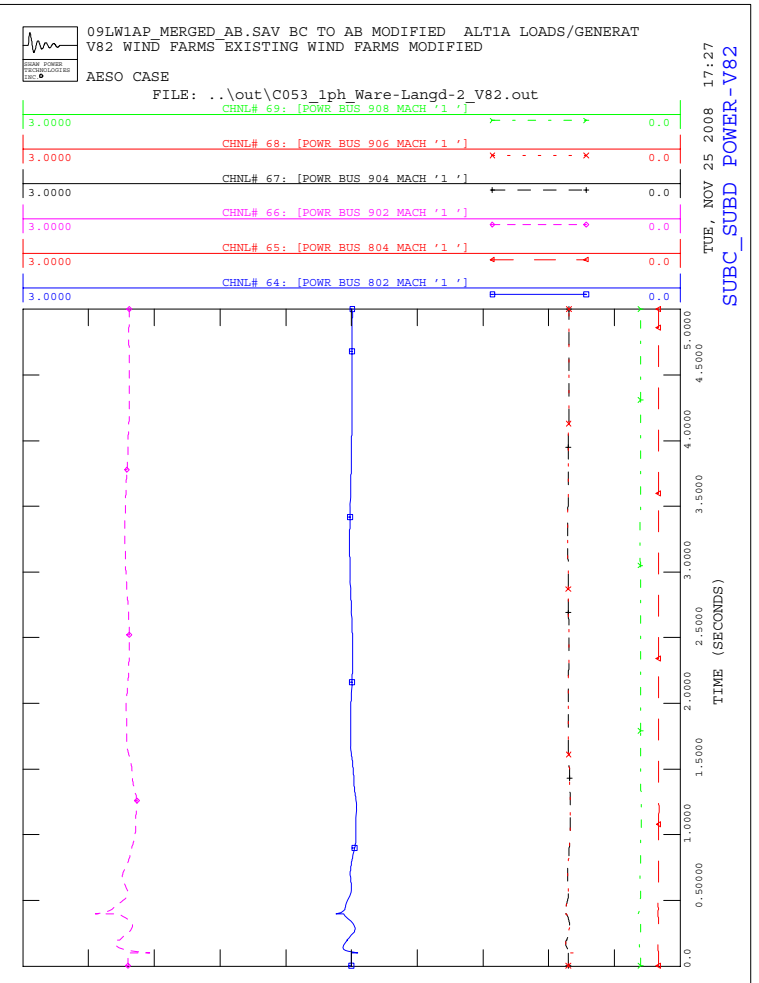
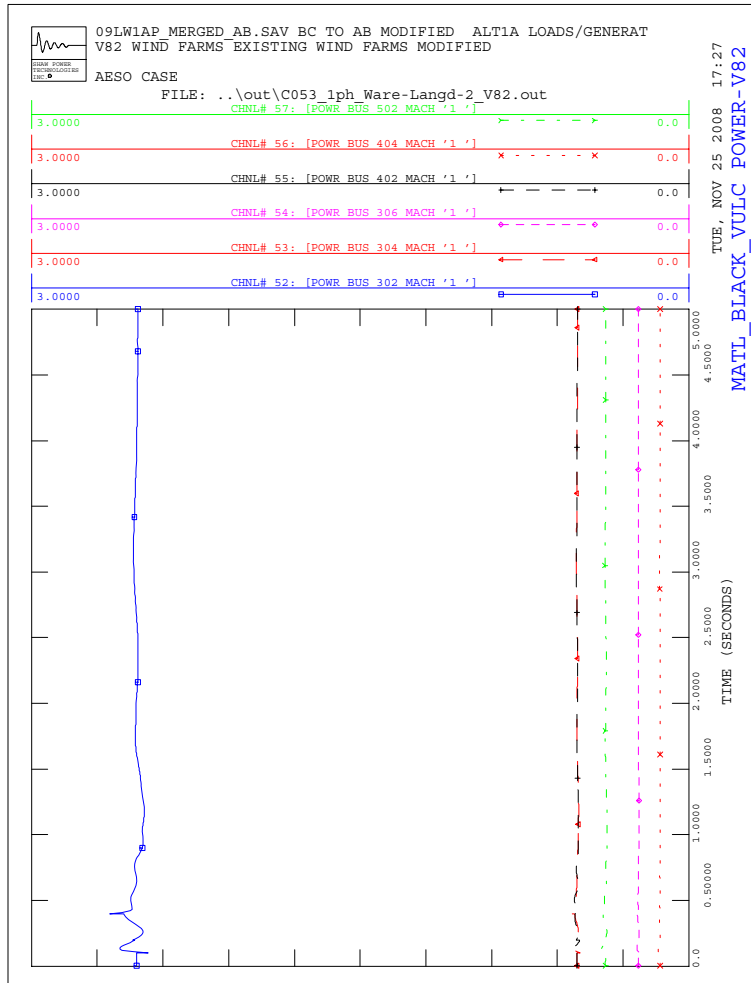
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82

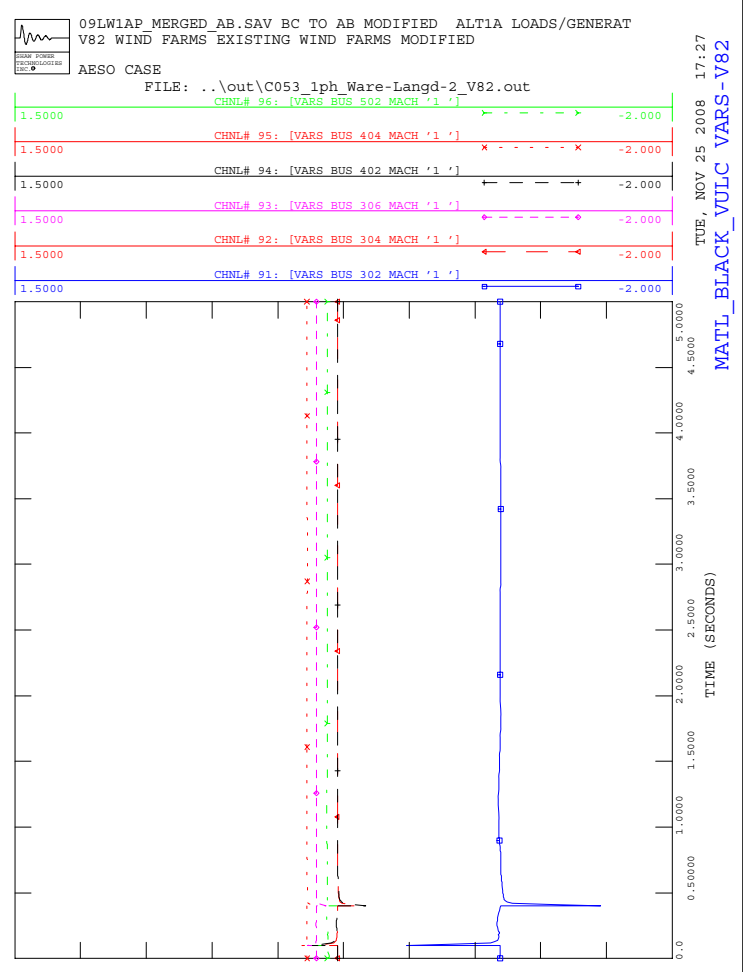
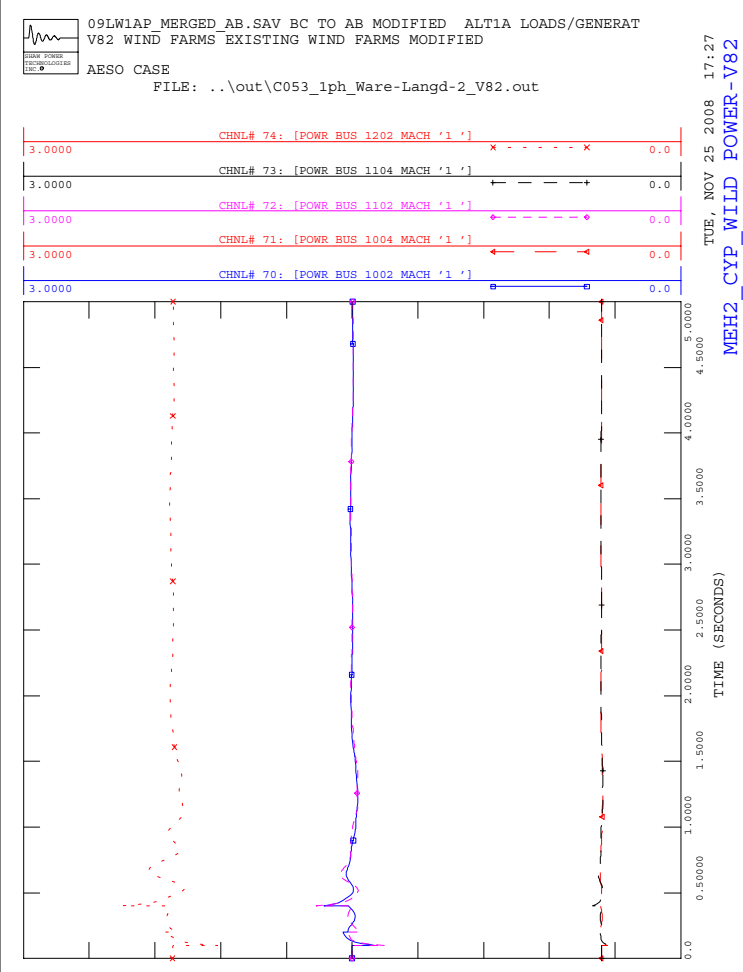
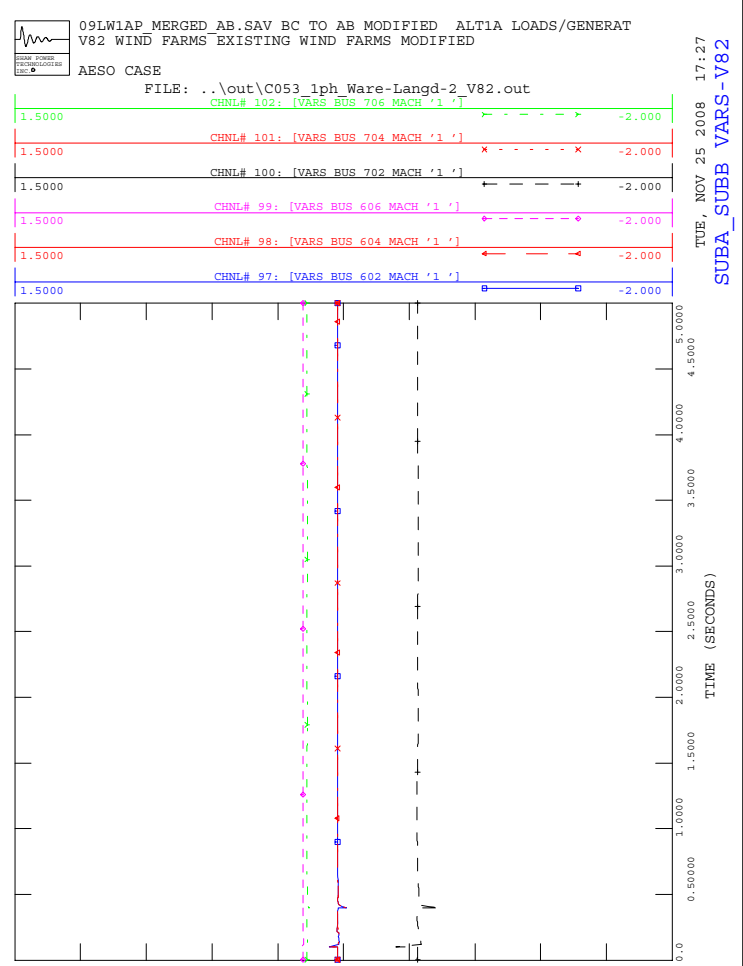
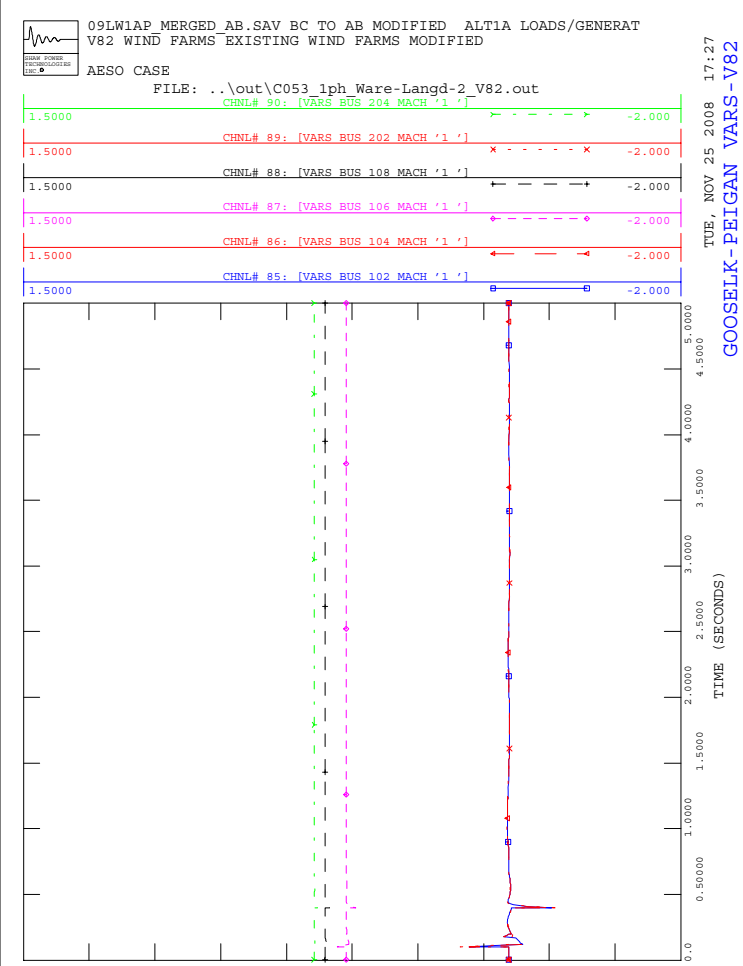


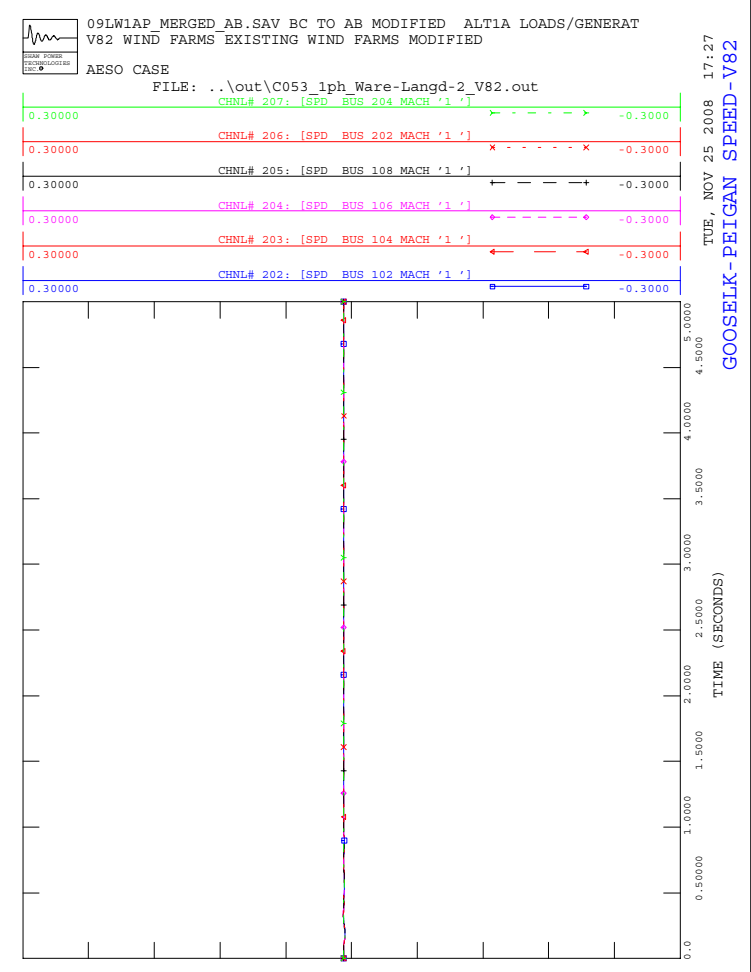
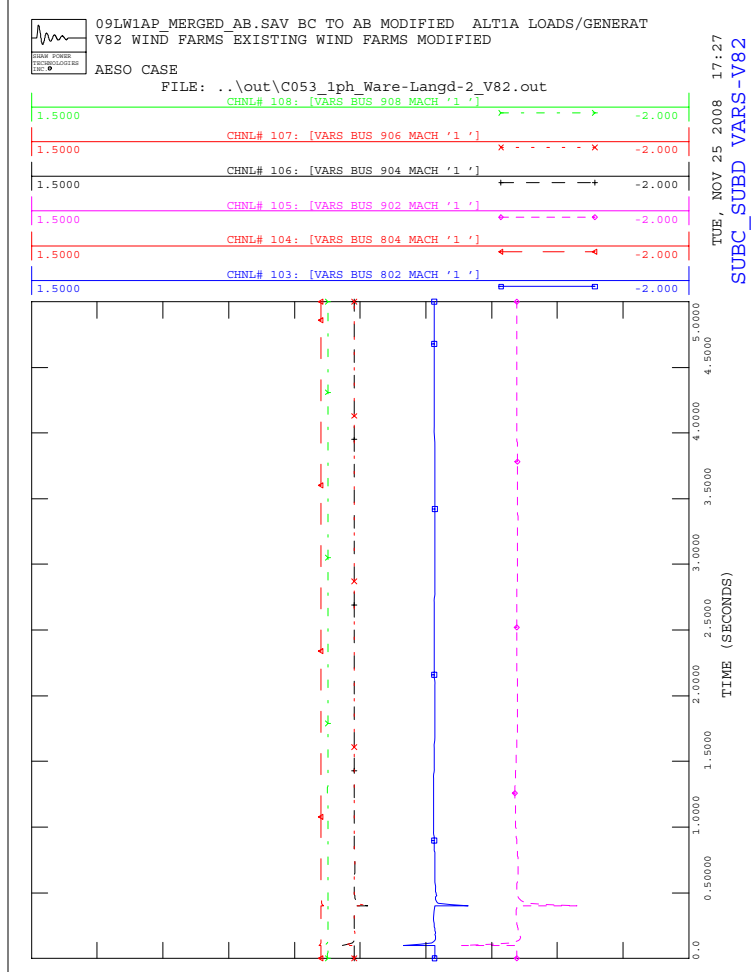
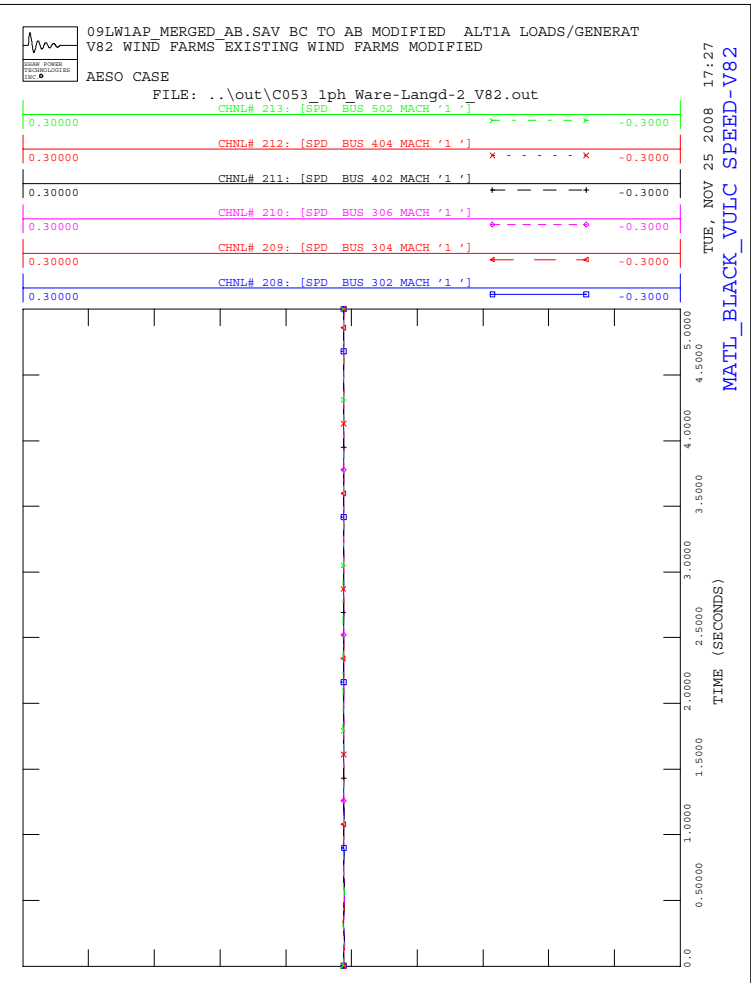
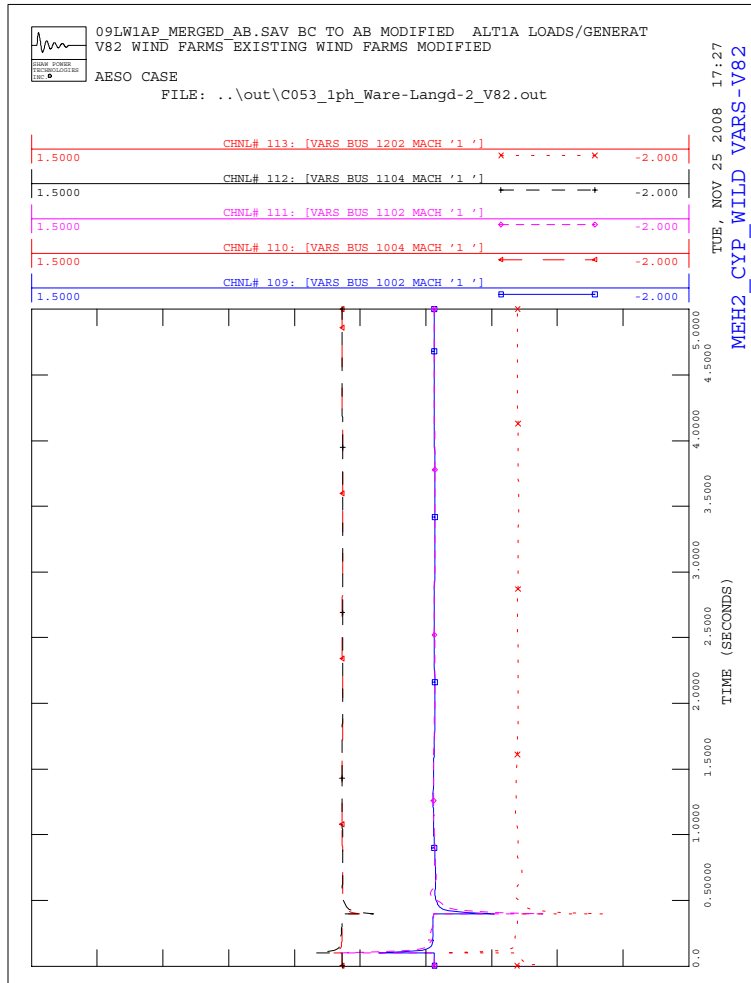
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C049_1ph_Milo-SubG-7_V82.out

TUE, NOV 25 2008 17:27
AB_BC_TIE_FLOWS-V82



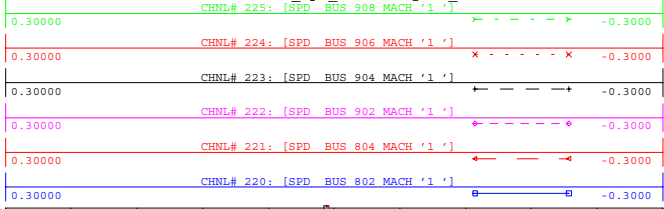






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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

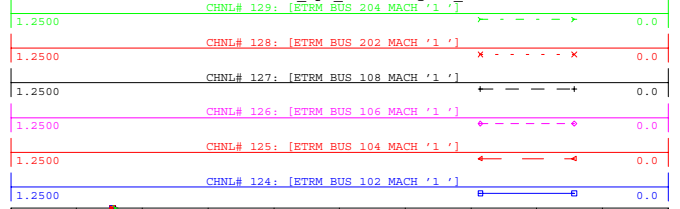
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TUE, NOV 25 2008 17:27
 SUBC_SUBD SPEED-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

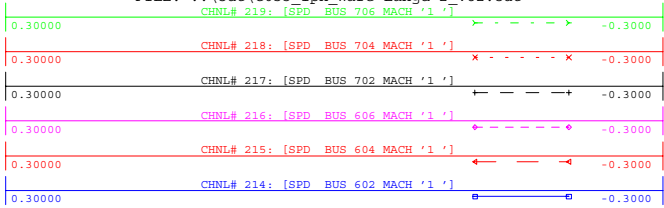
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TUE, NOV 25 2008 17:27
 GOOSELK-PEIGAN ETERM-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

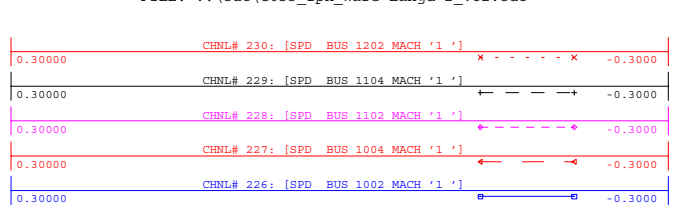
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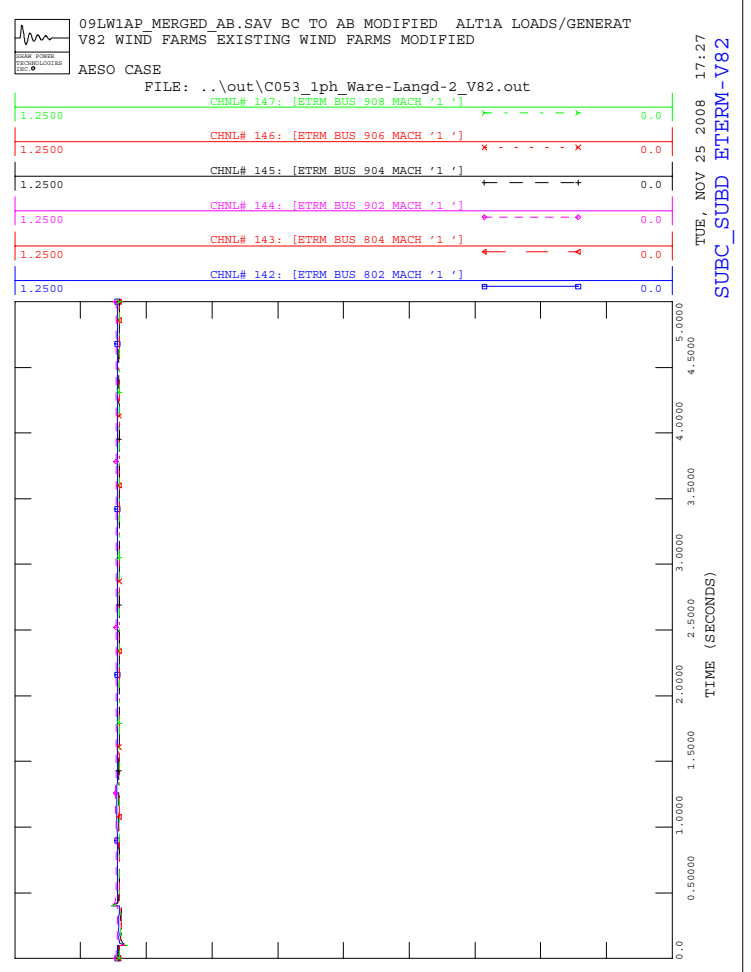
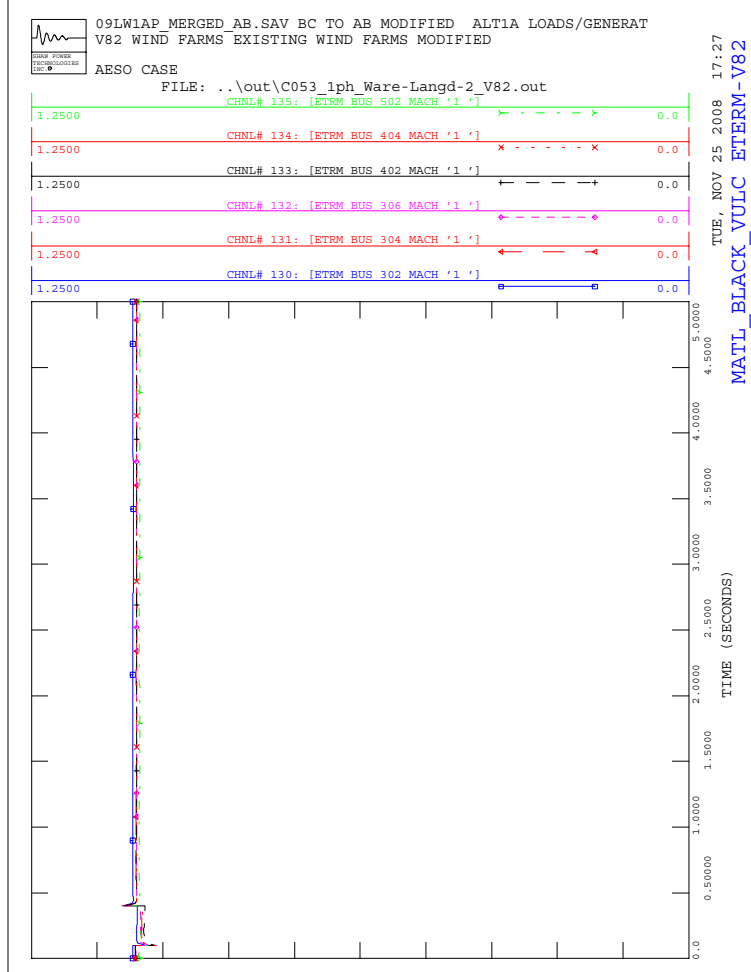
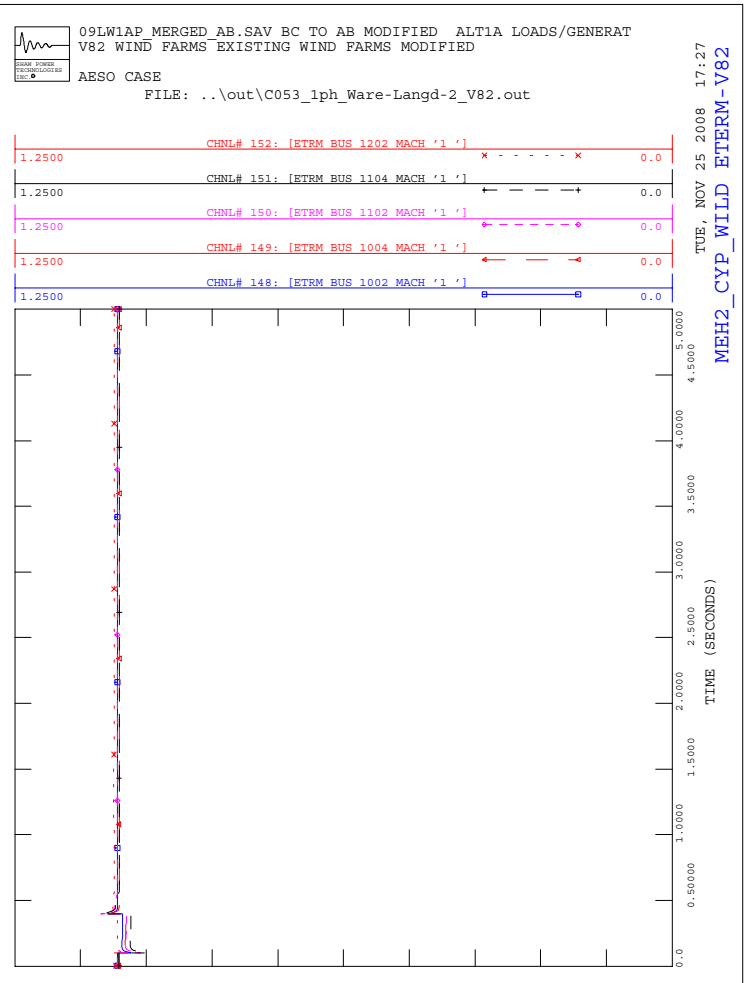
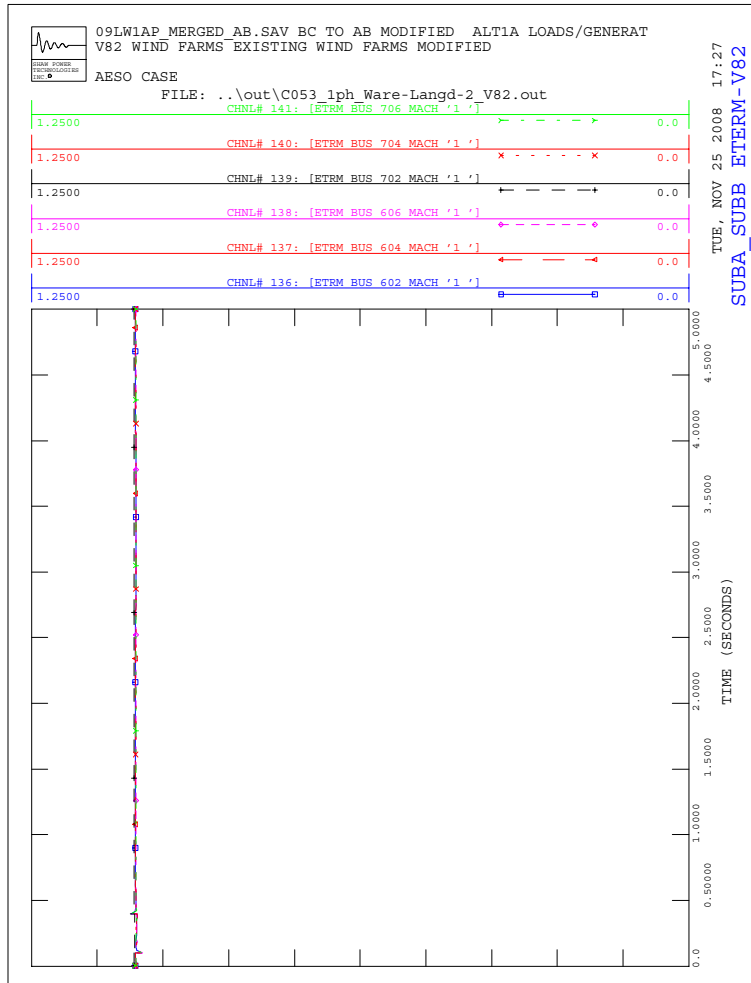
TUE, NOV 25 2008 17:27
 SUBA_SUBD SPEED-V82

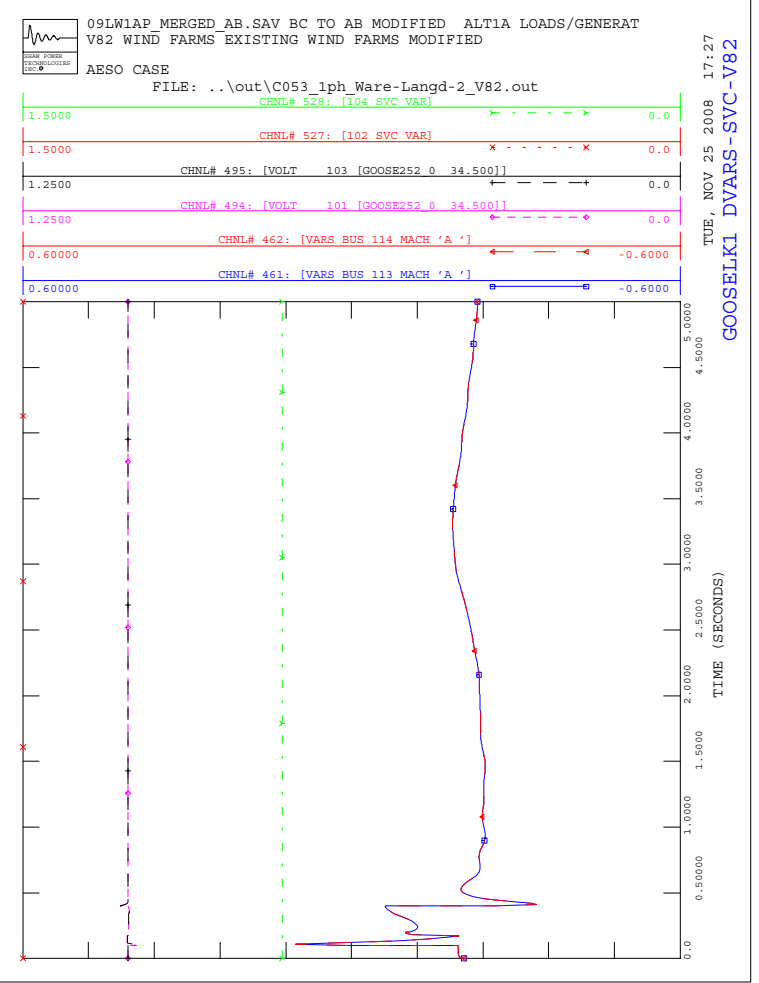
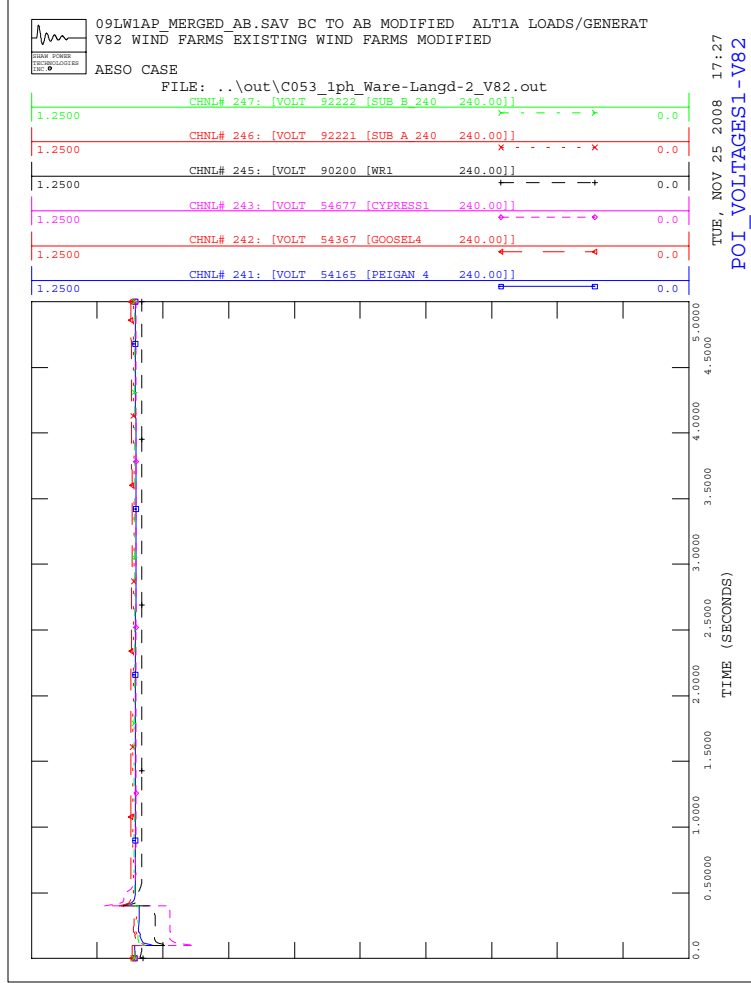
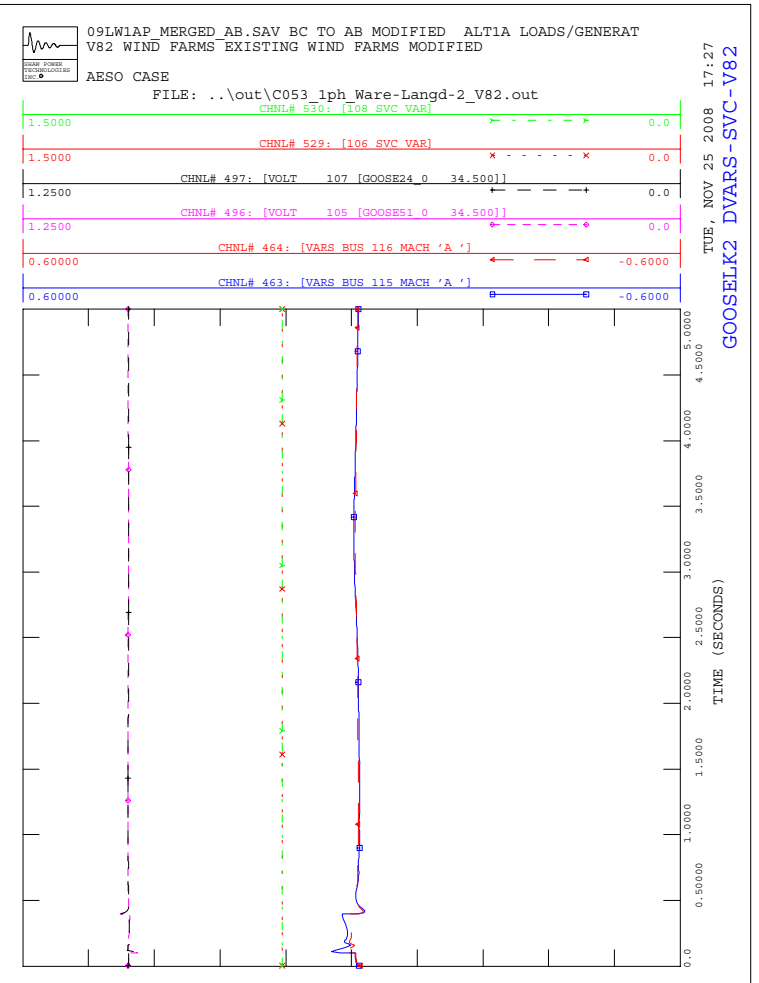
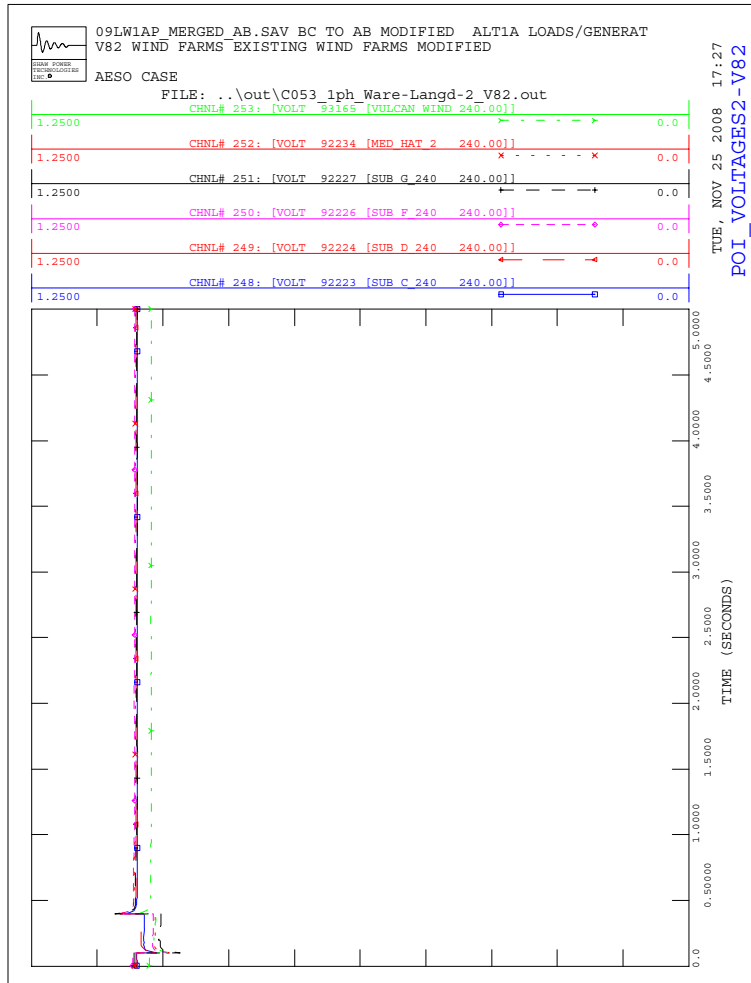
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

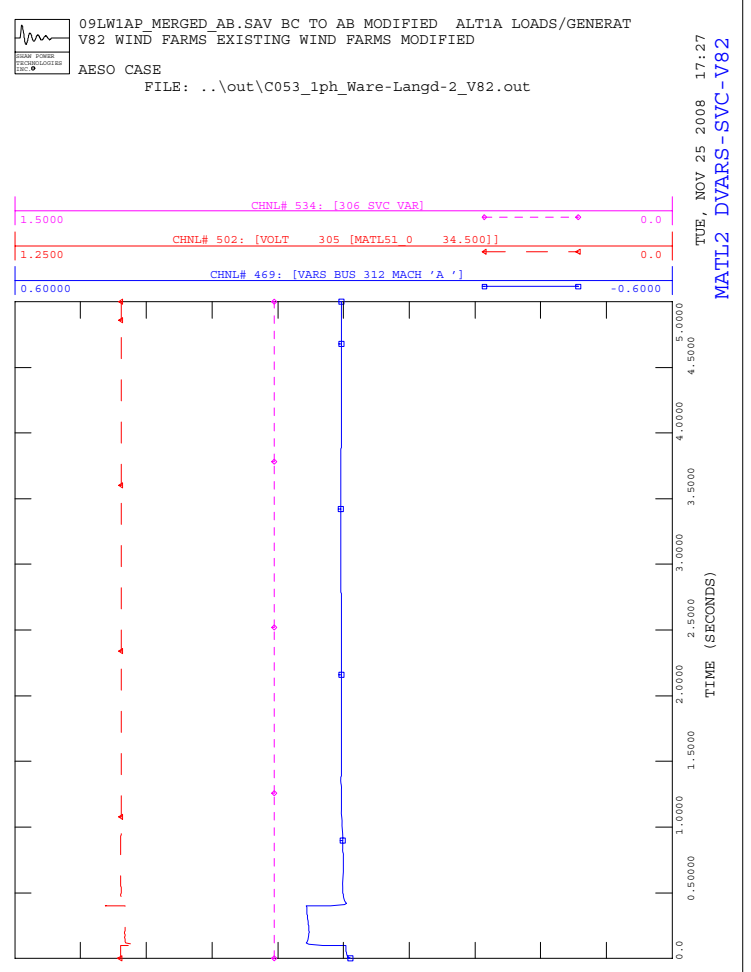
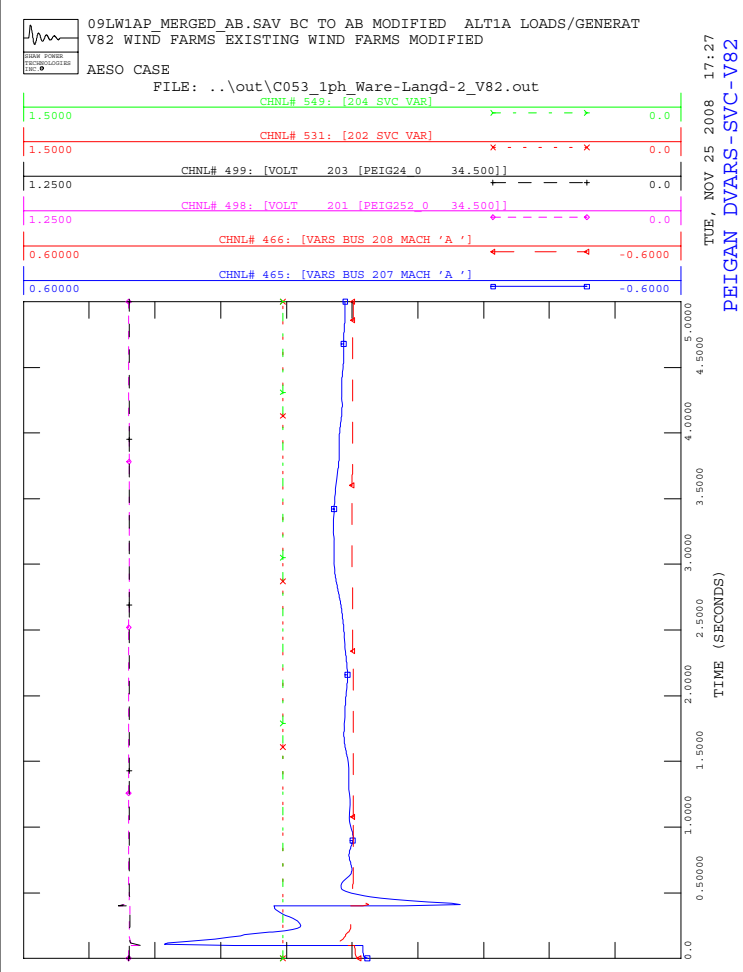
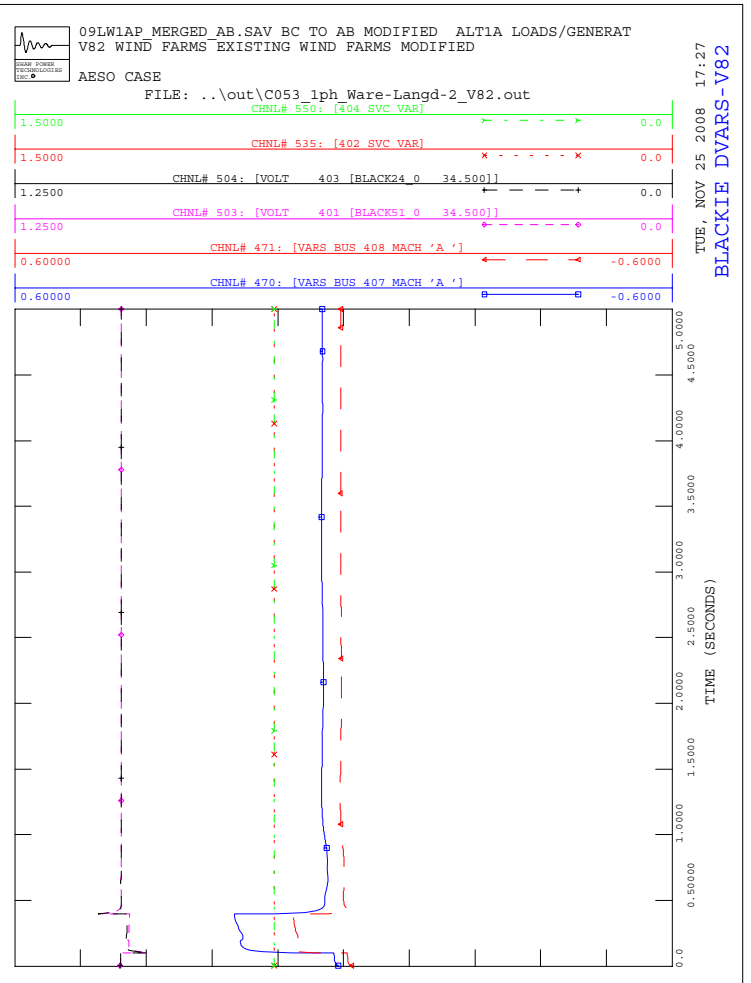
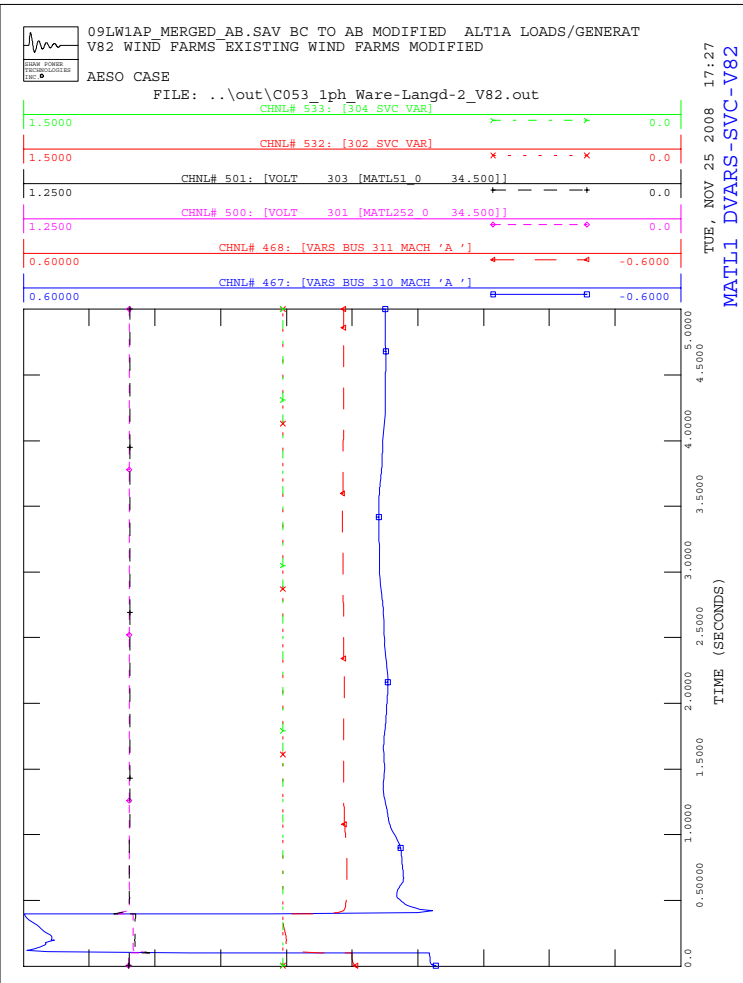
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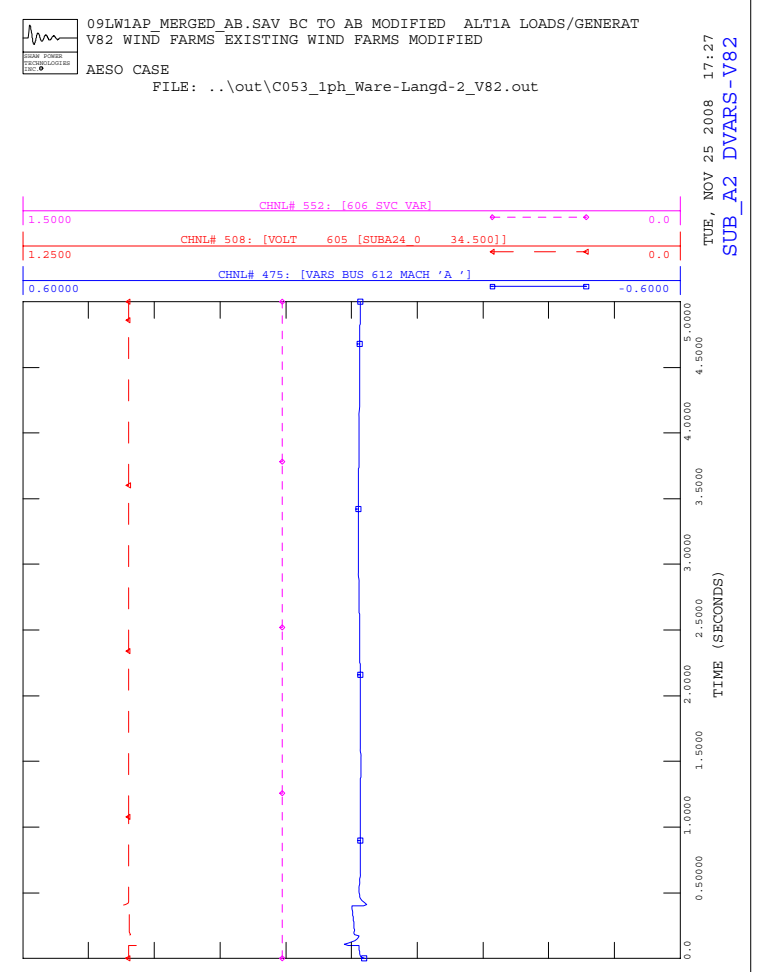
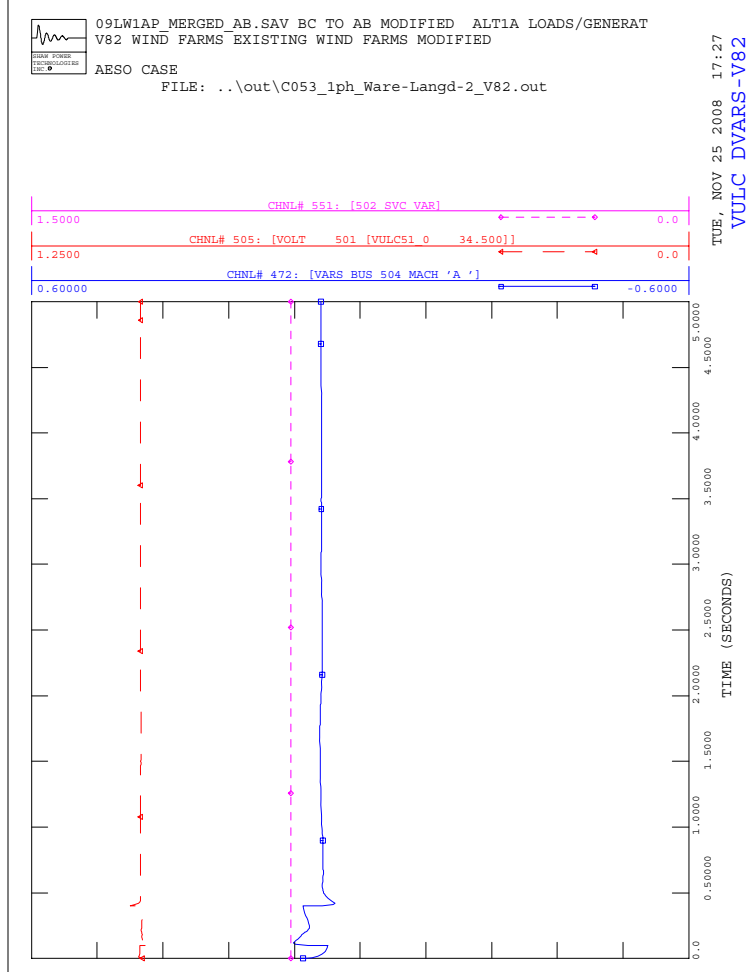
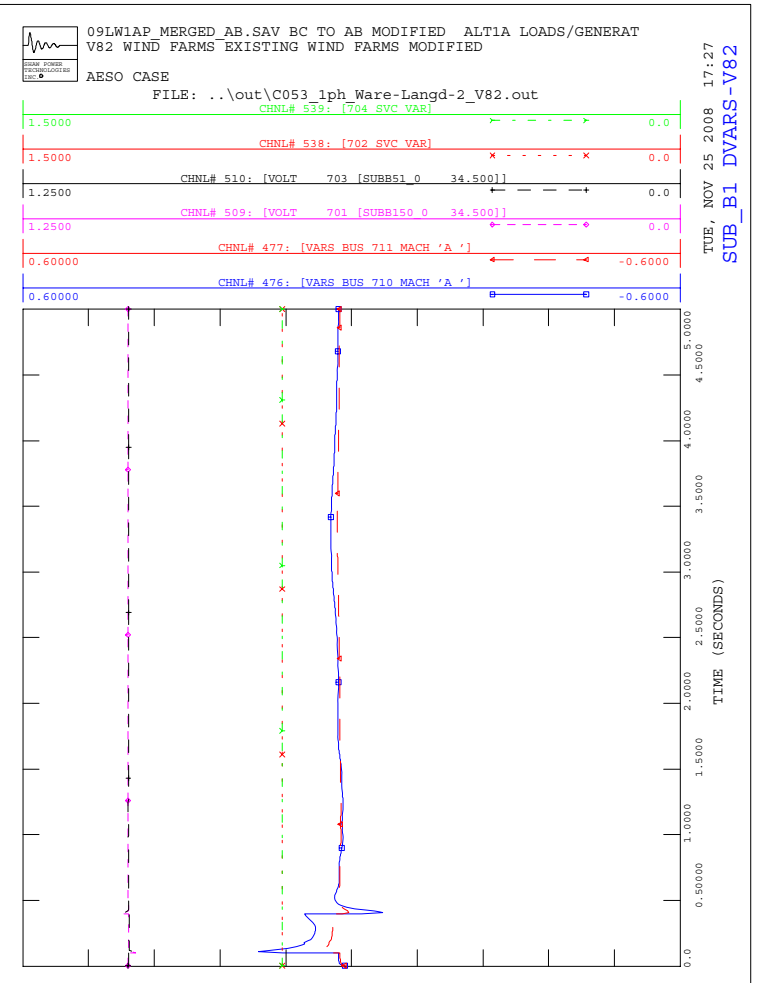
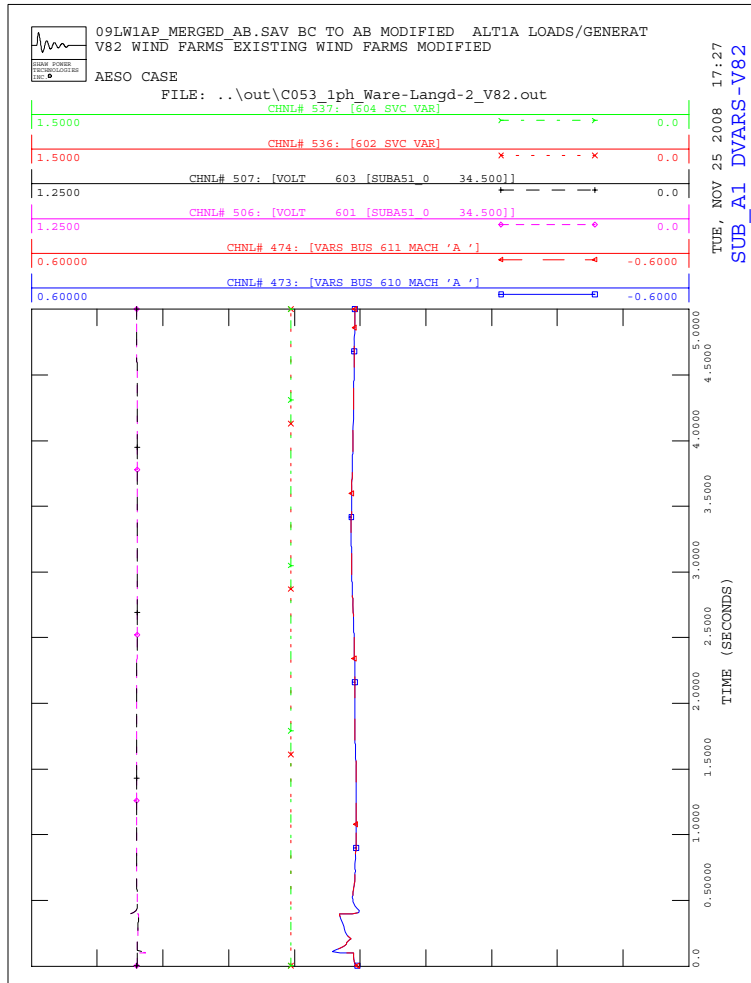


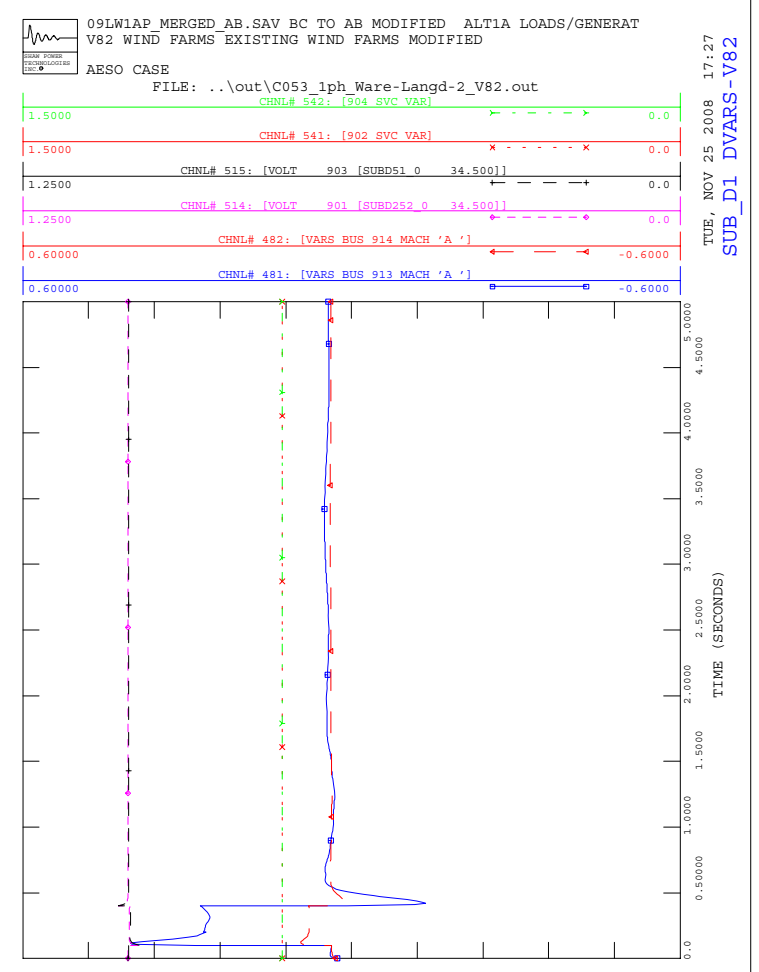
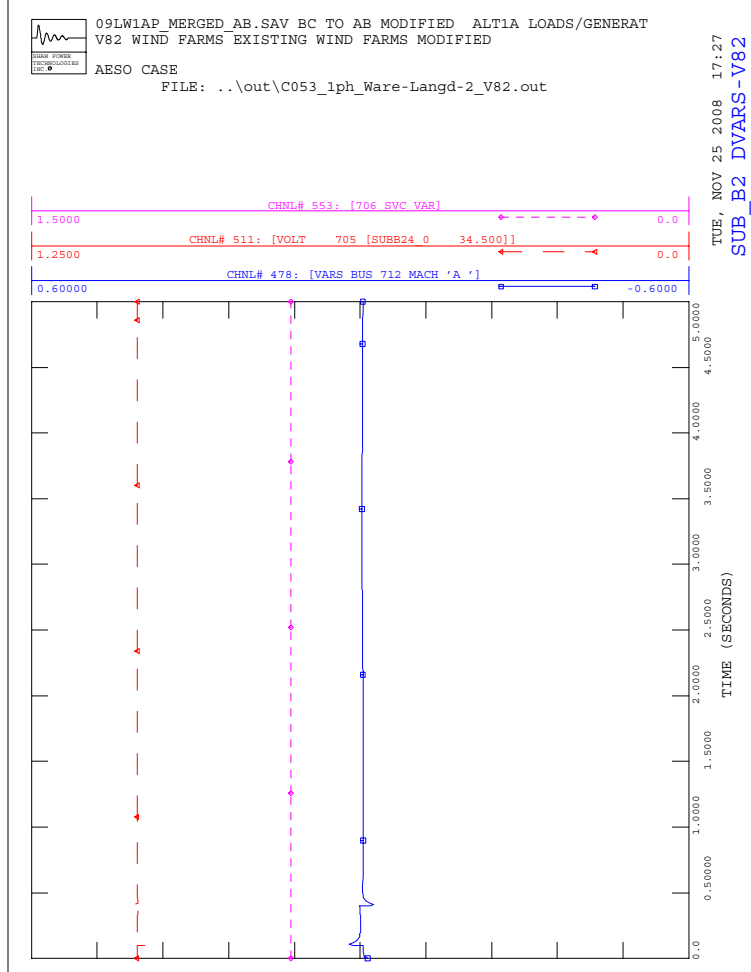
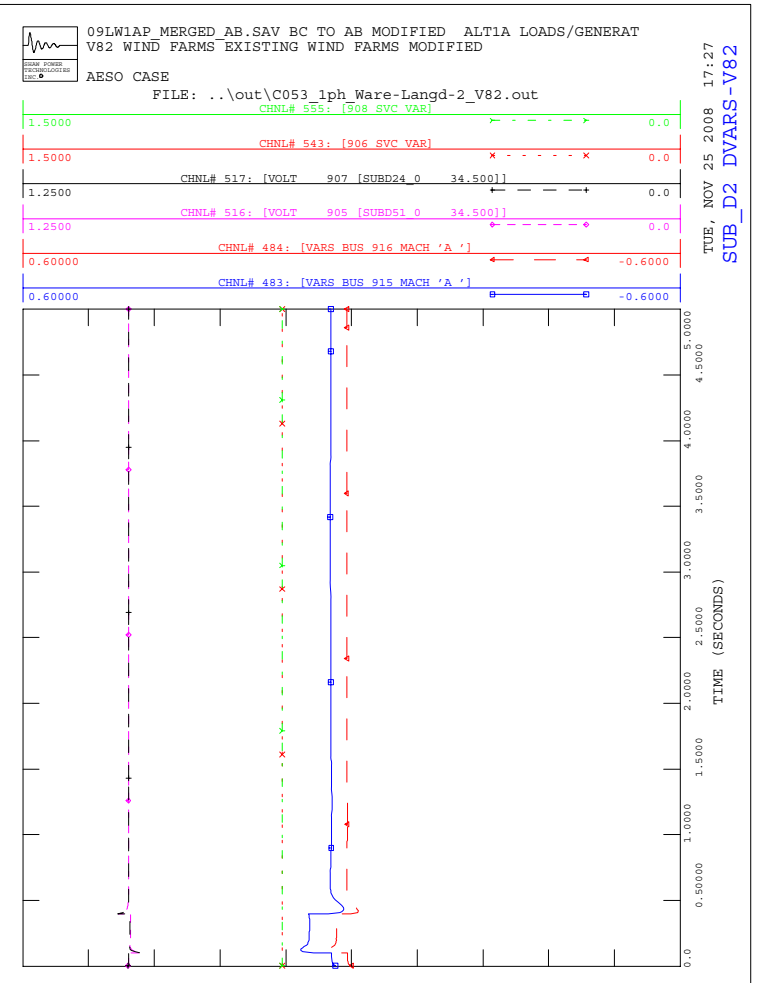
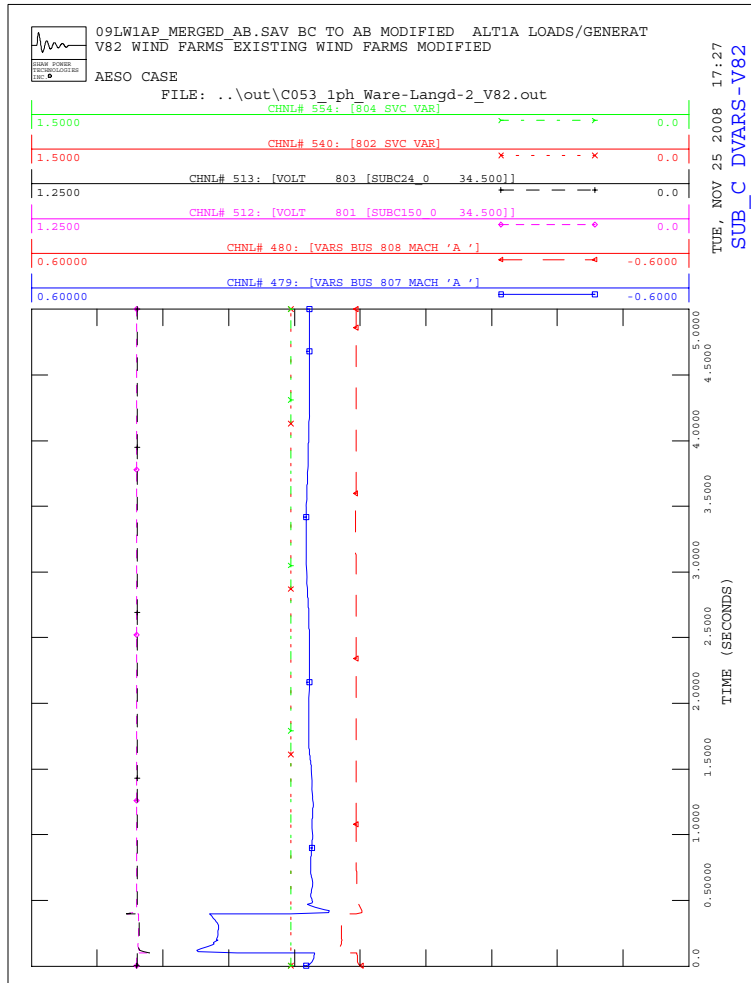
TUE, NOV 25 2008 17:27
 MEH2_CYP_WILD SPEED-V82

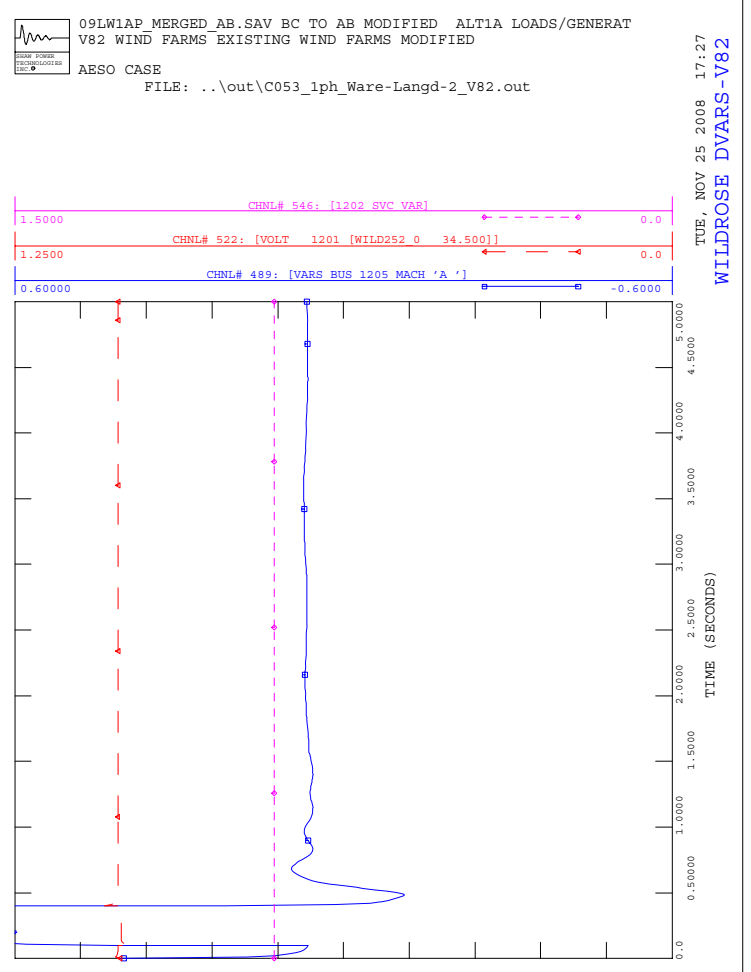
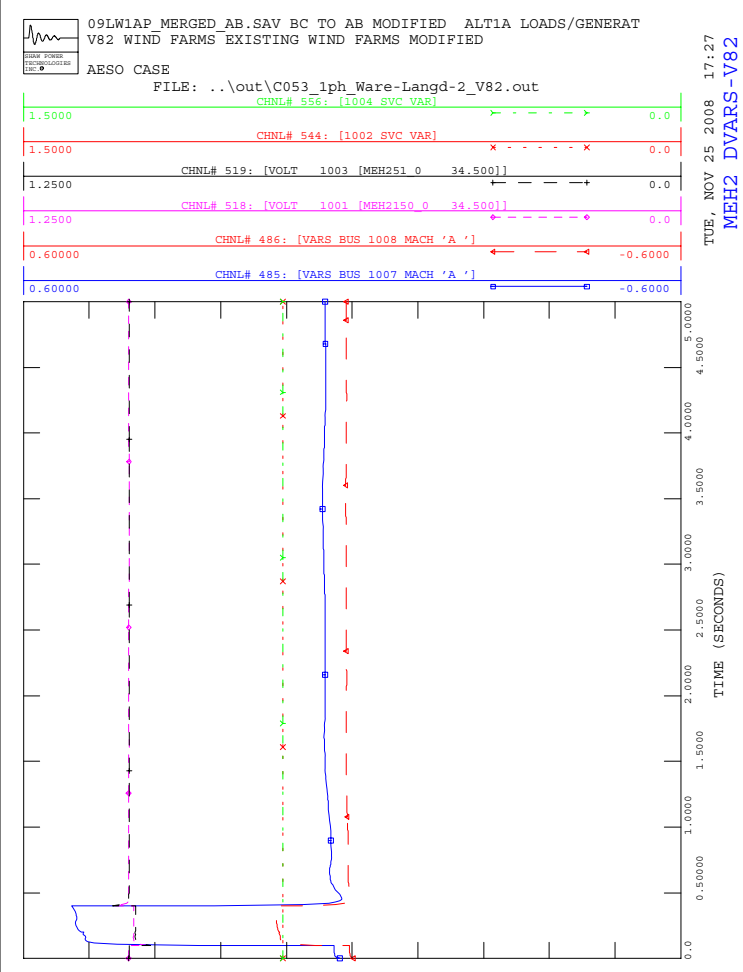
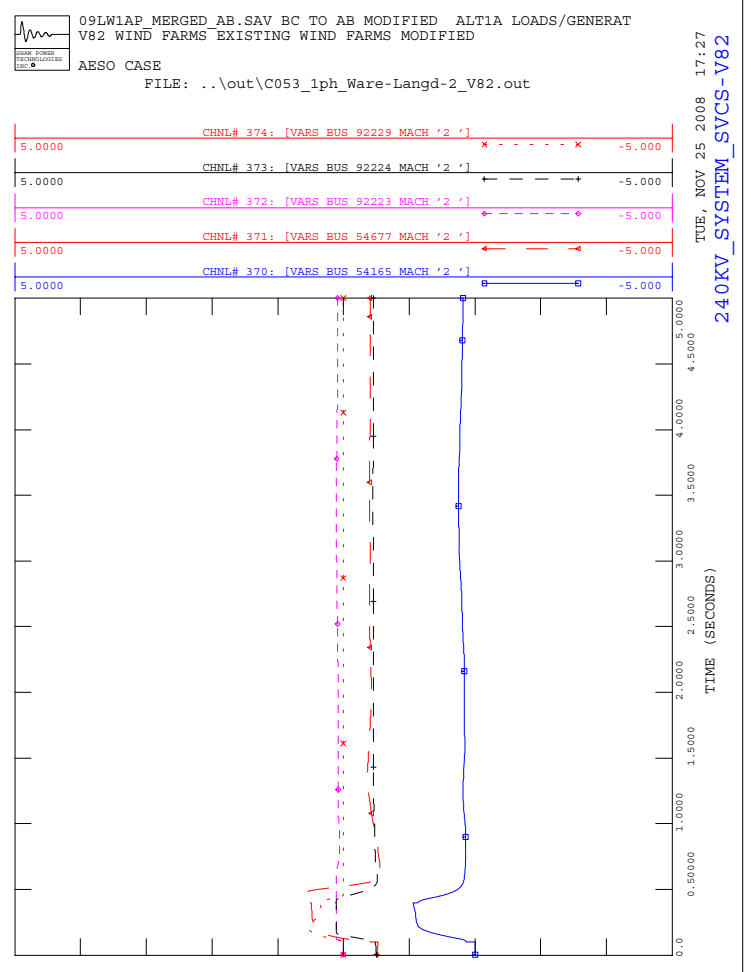
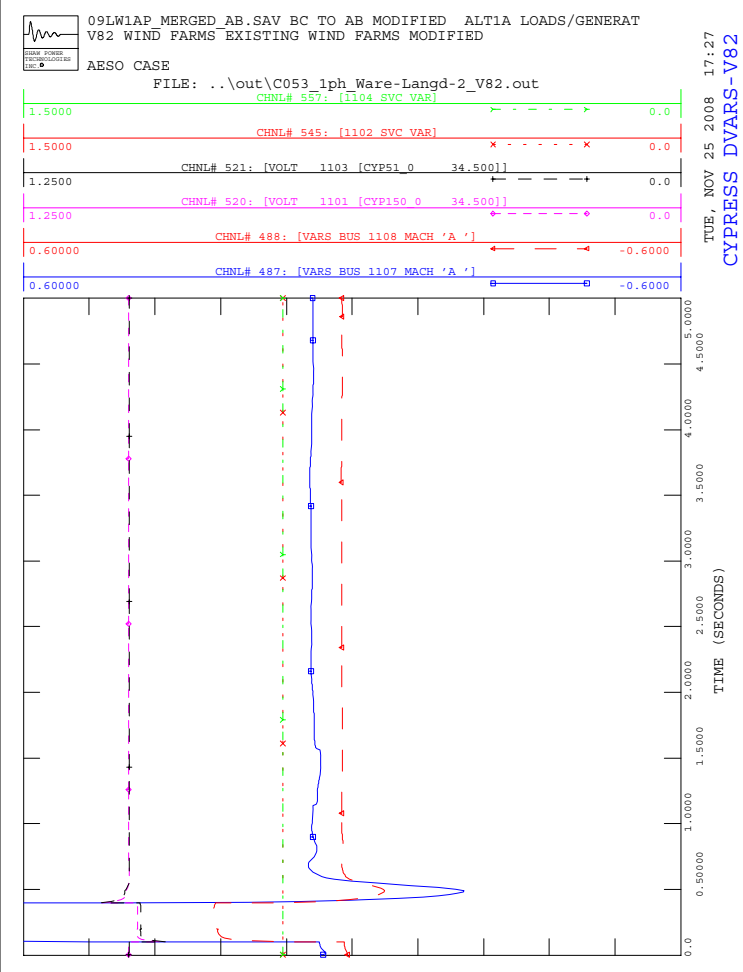








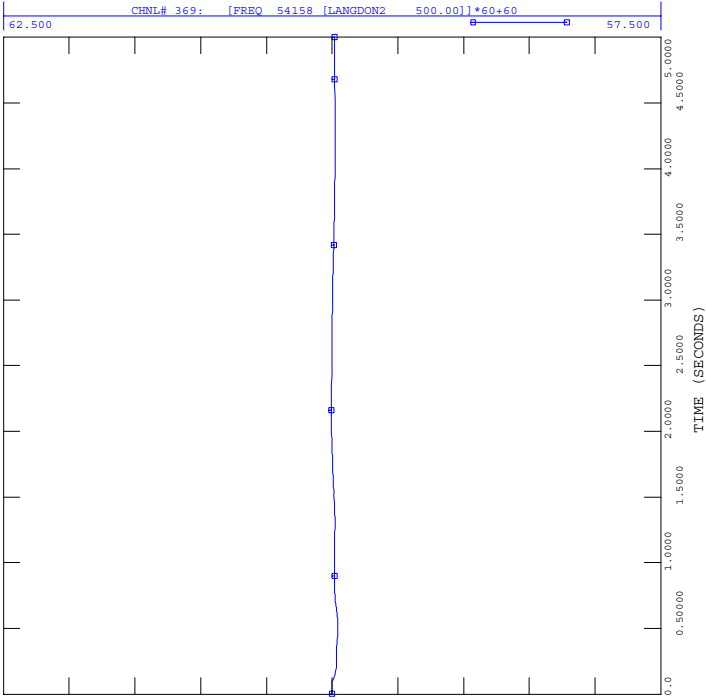






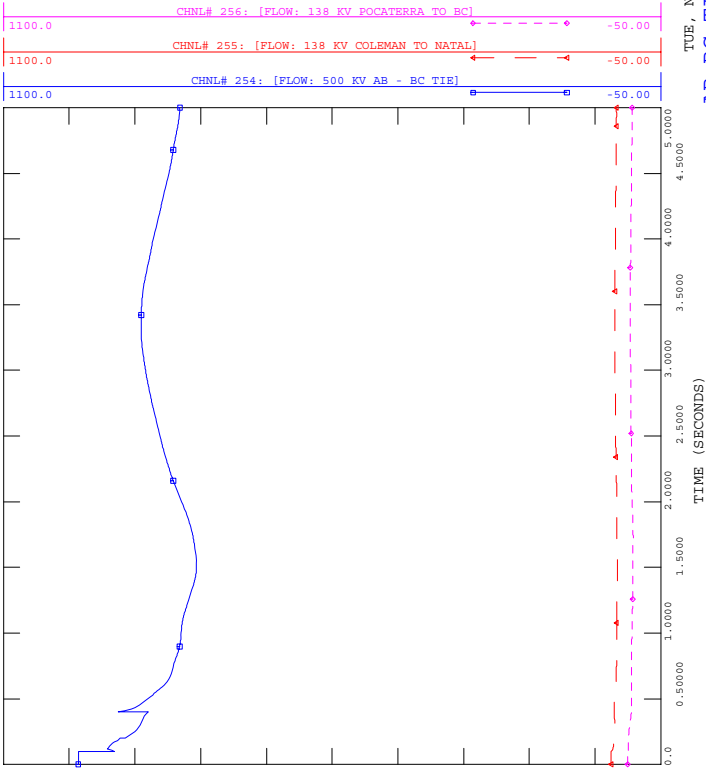
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C053_1ph_Ware-Langd-2_V82.out

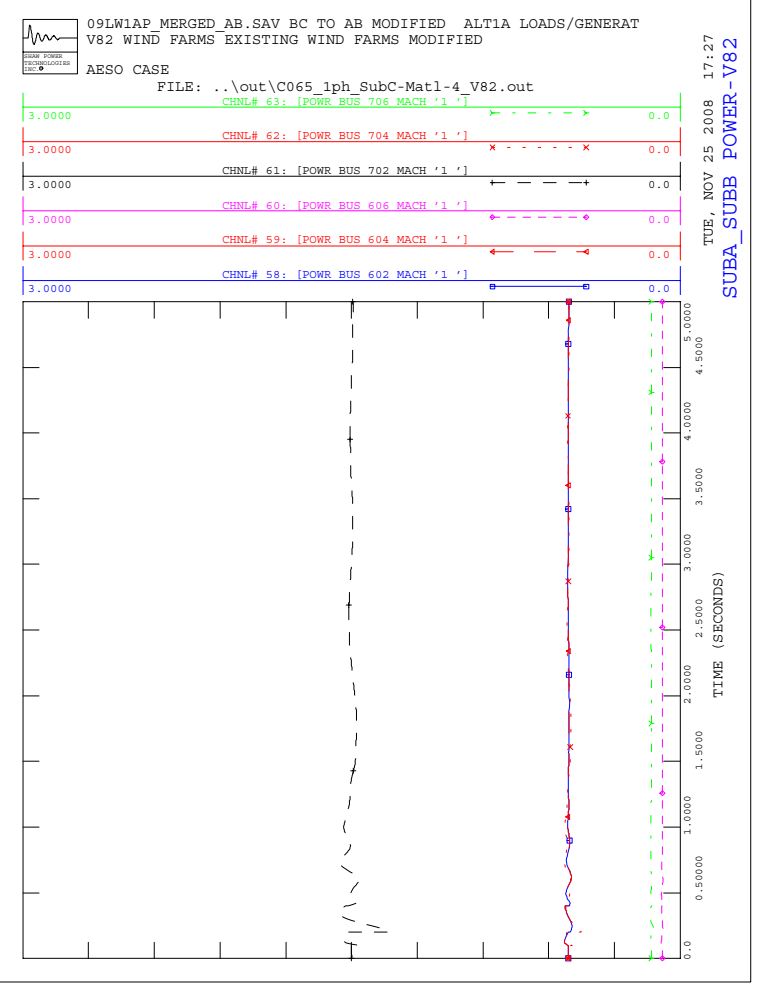
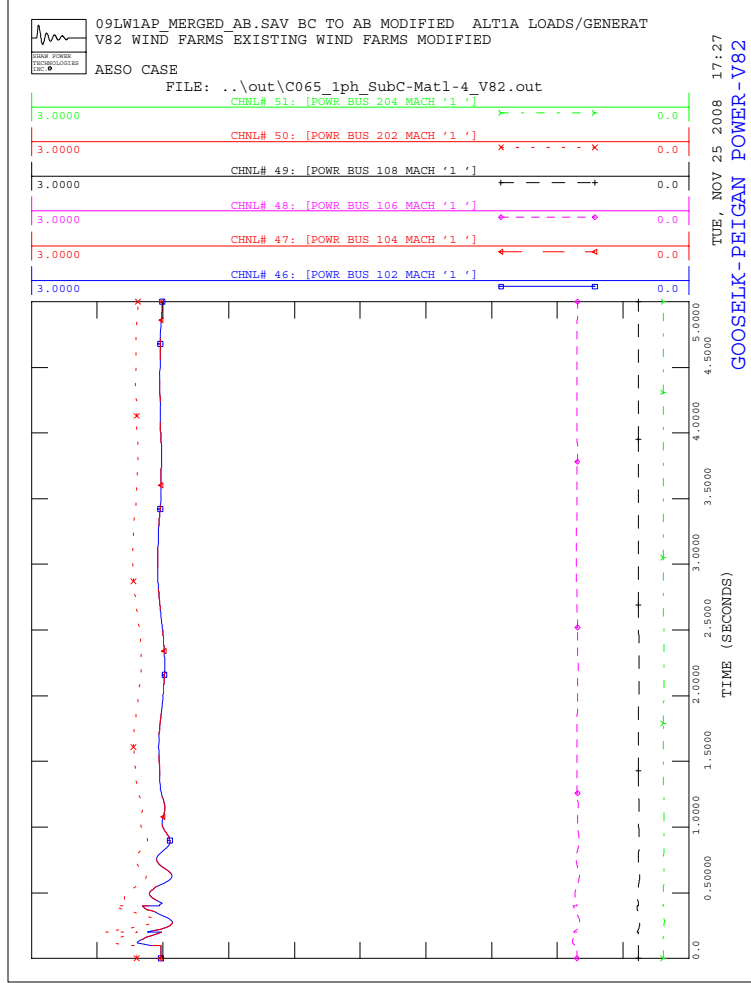
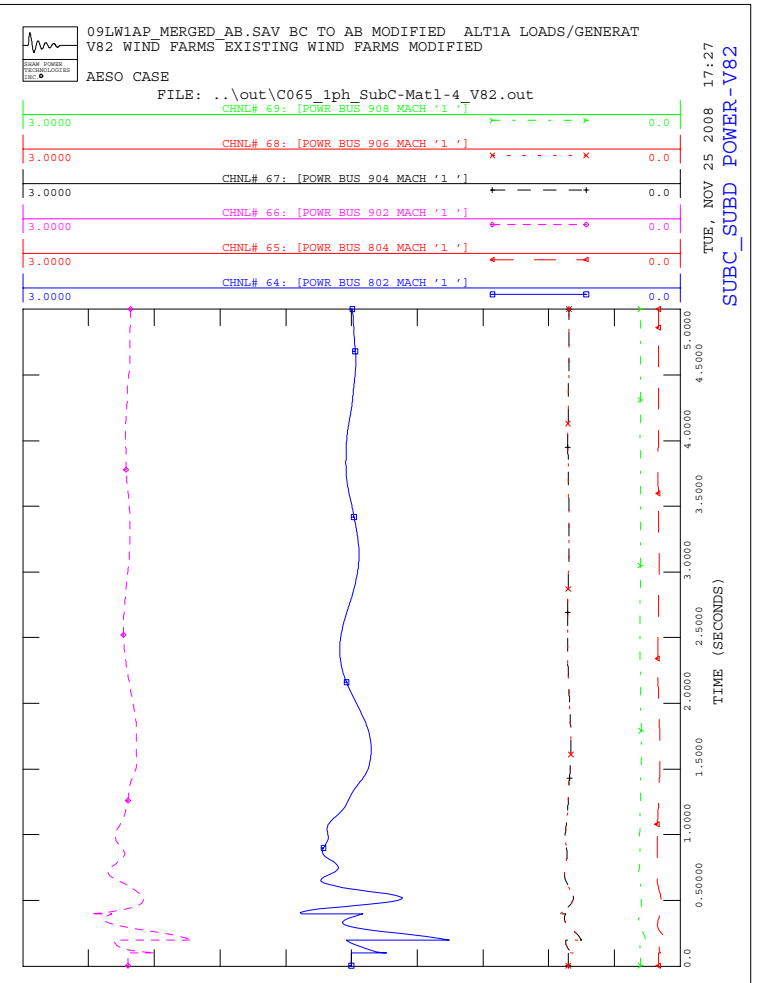
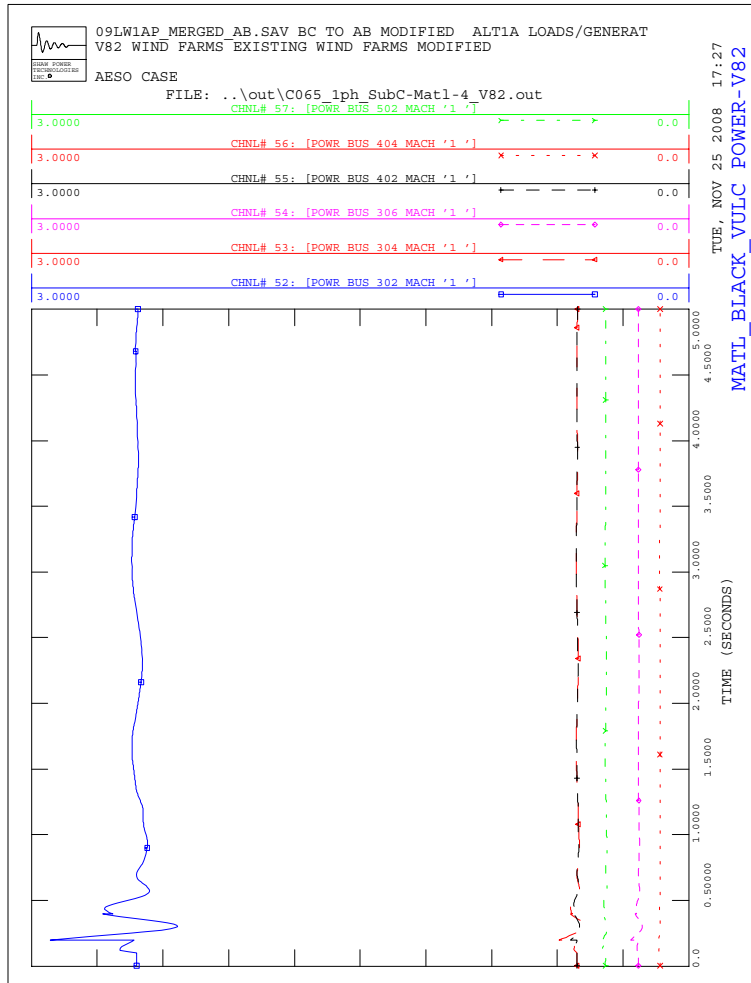
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82

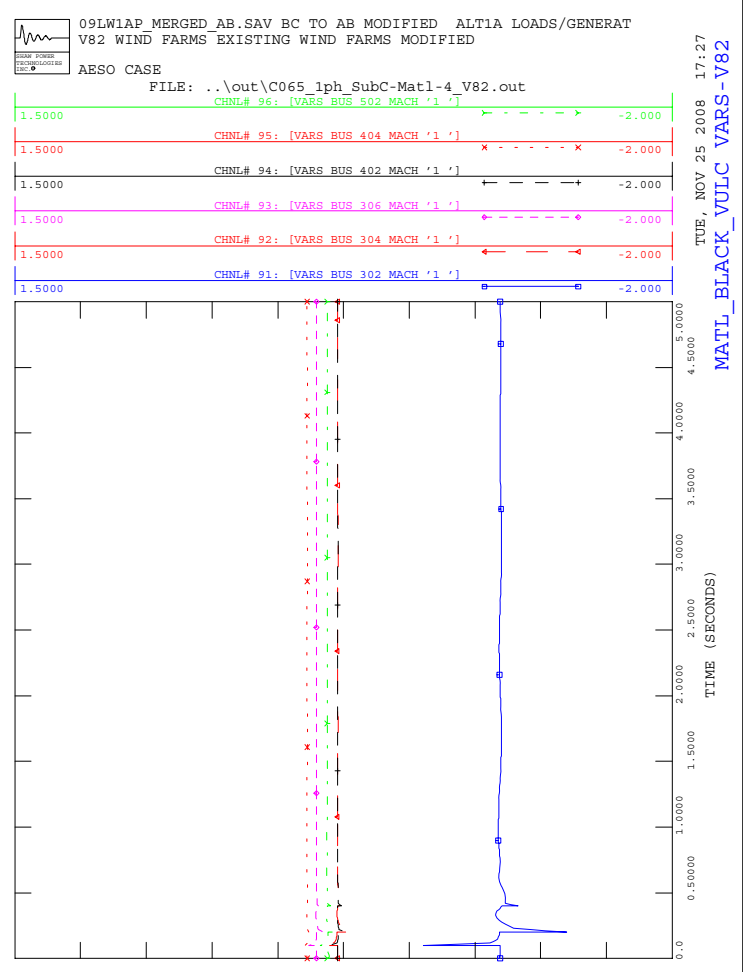
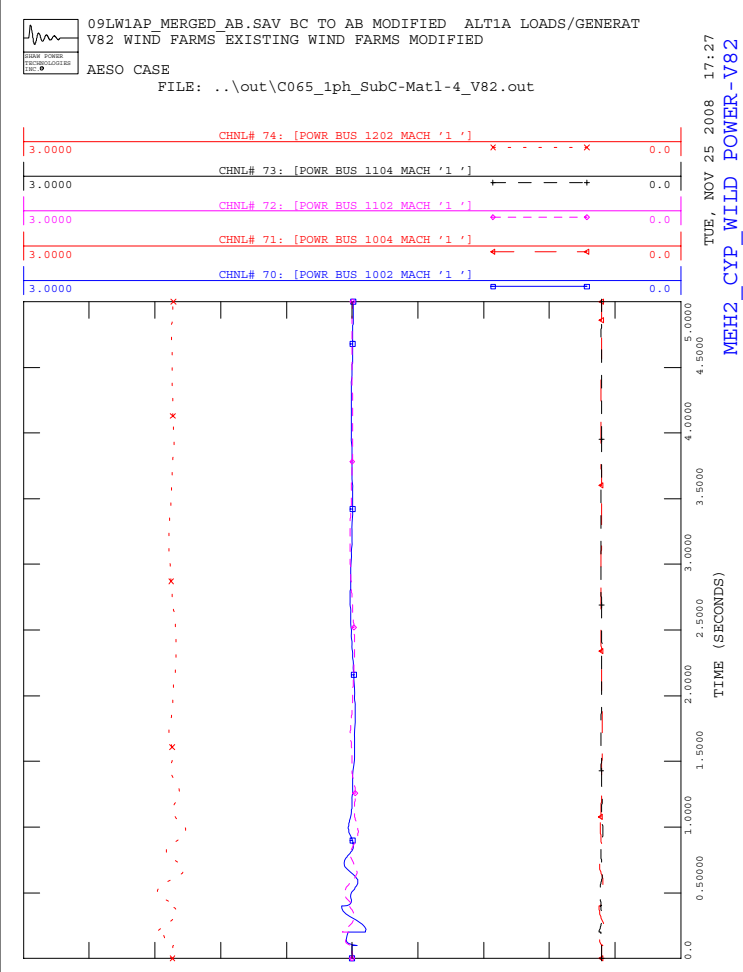
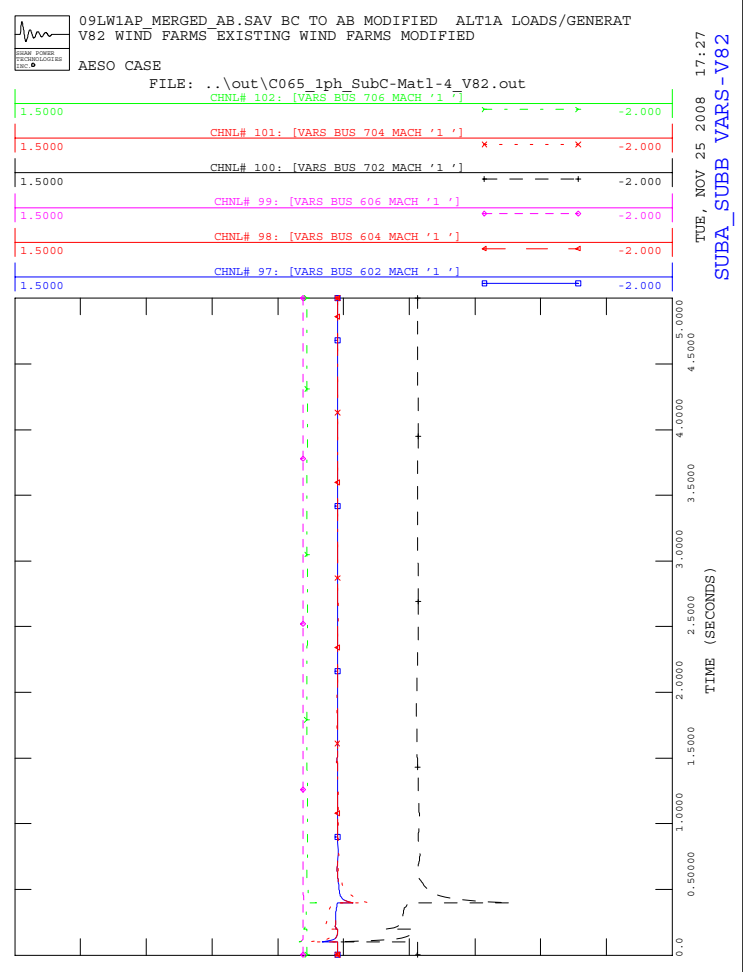
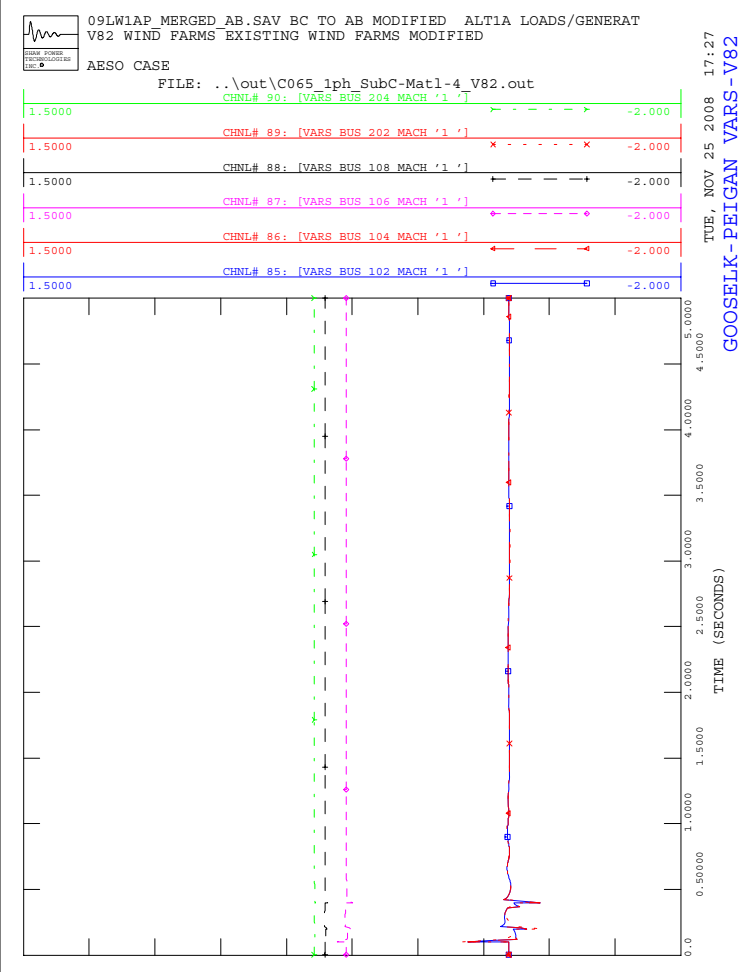


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C053_1ph_Ware-Langd-2_V82.out

TUE, NOV 25 2008 17:27
AB_BC_TIE_FLOWS-V82

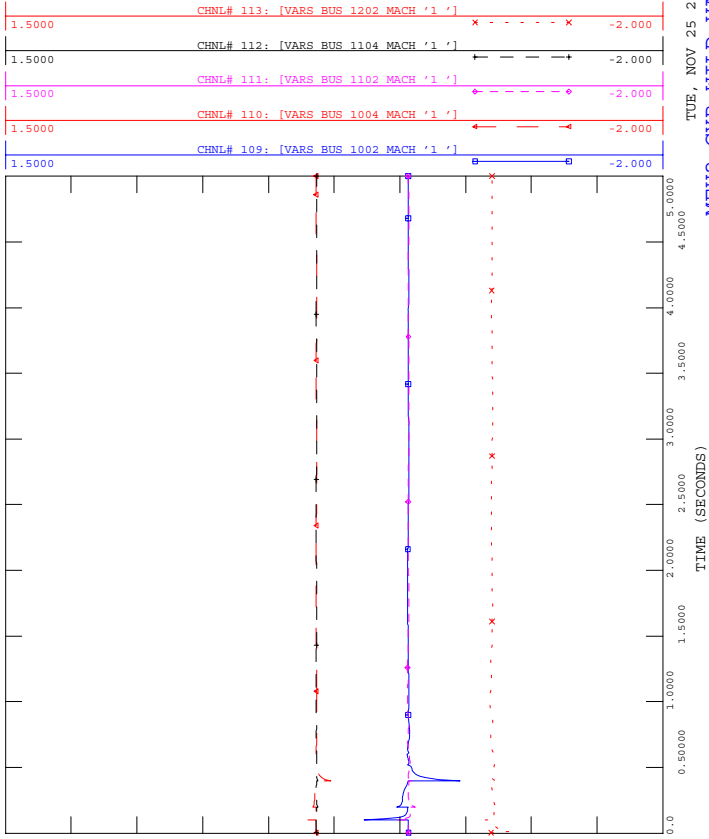






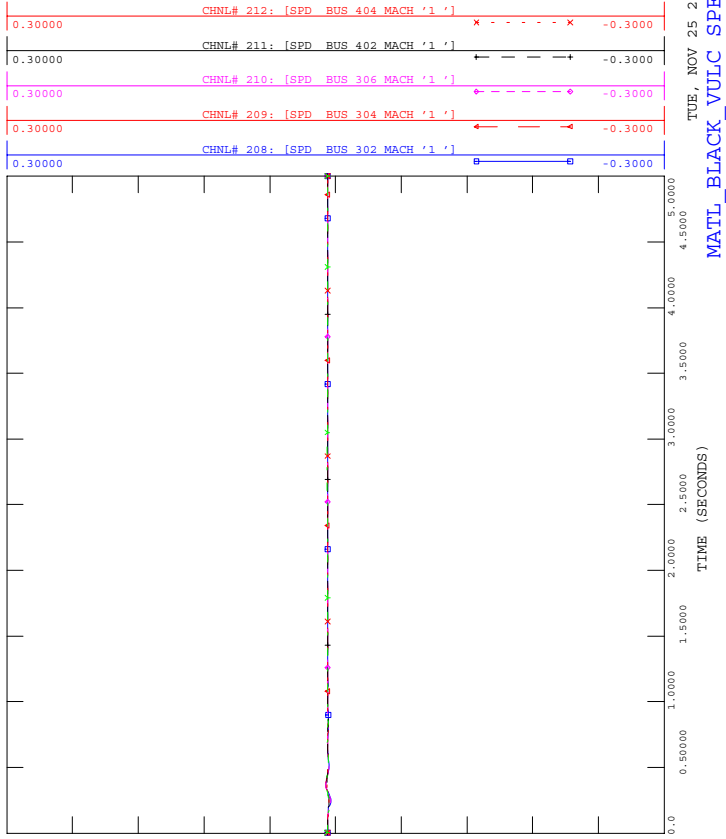
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out



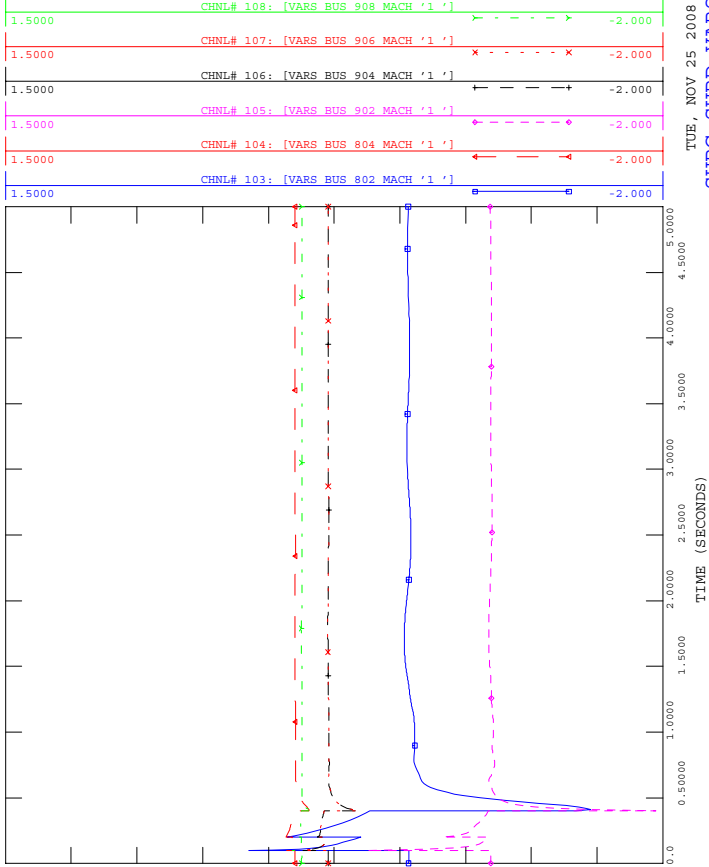
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AESO CASE

FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out



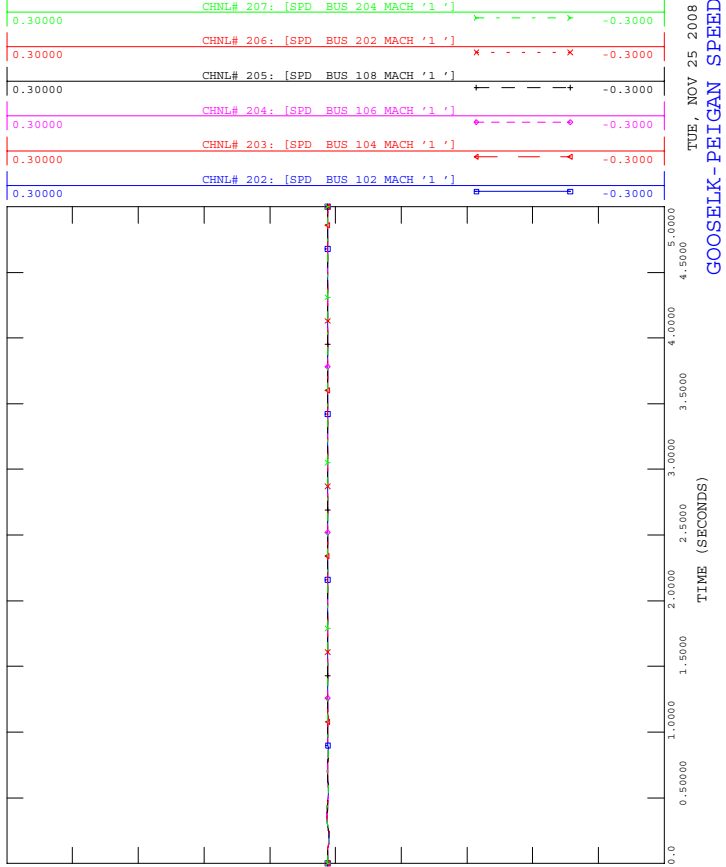
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

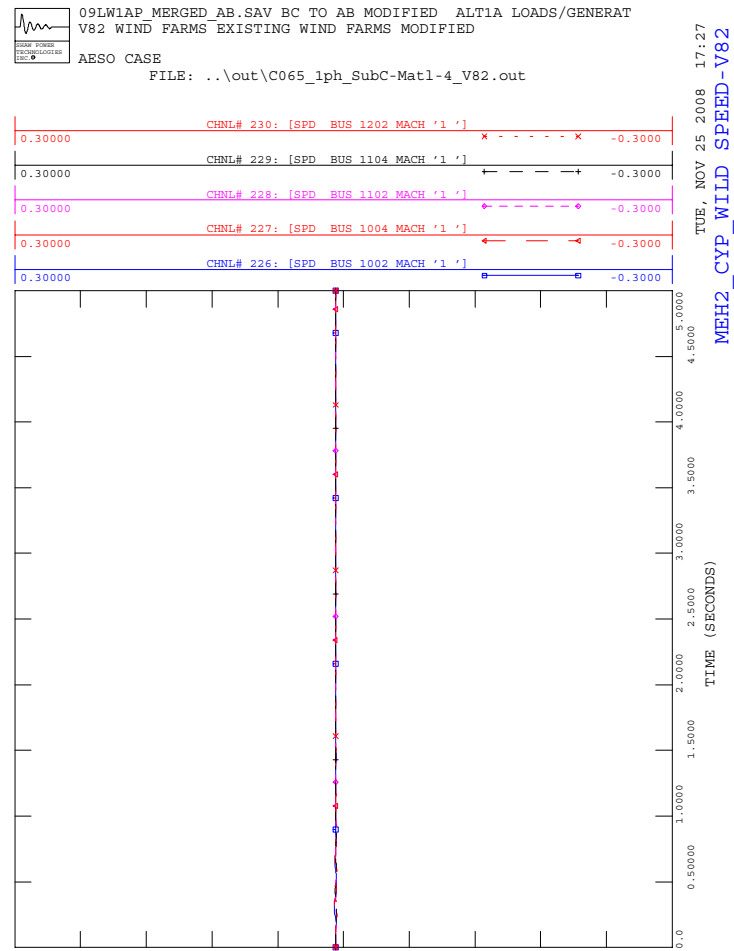
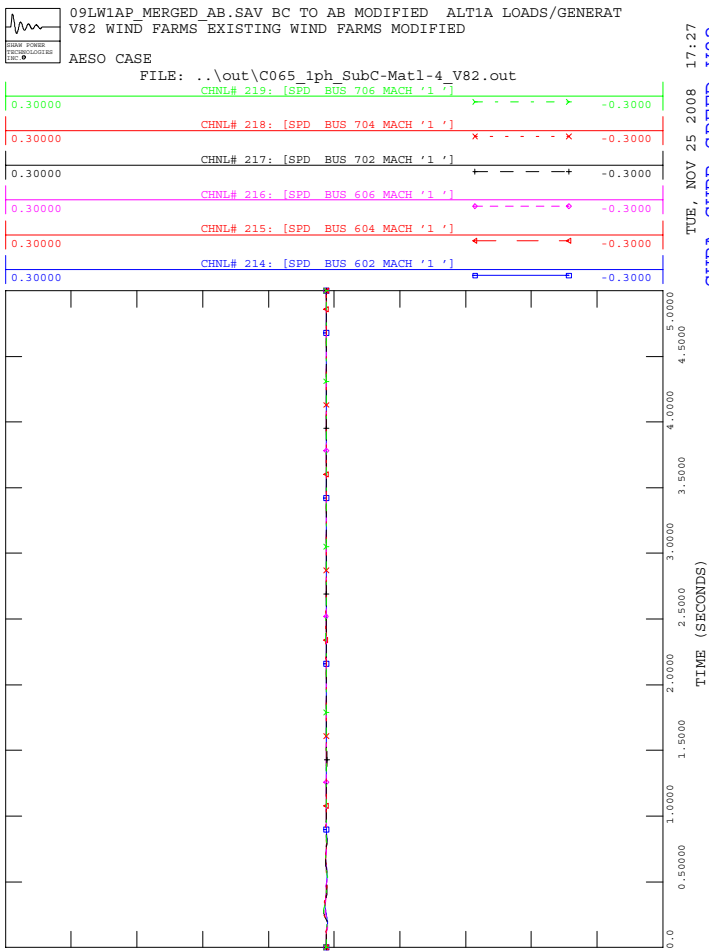
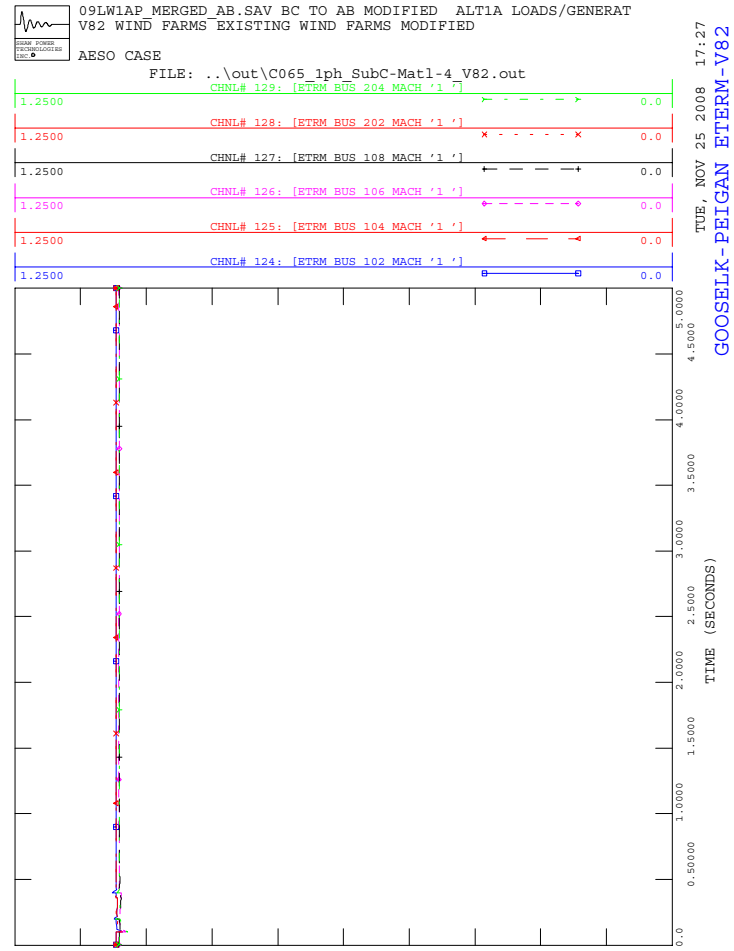
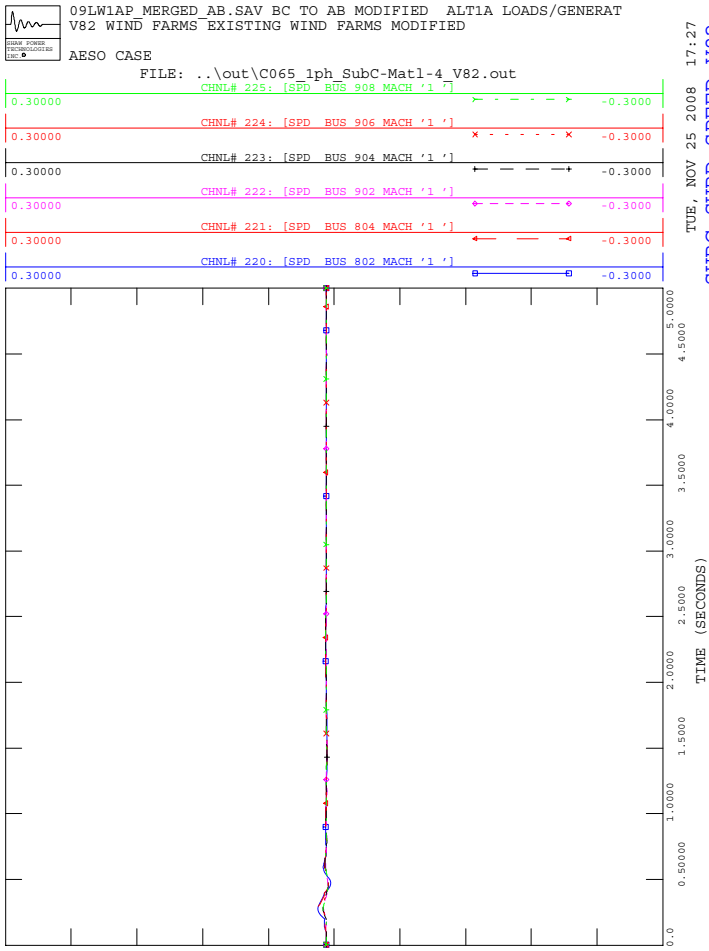
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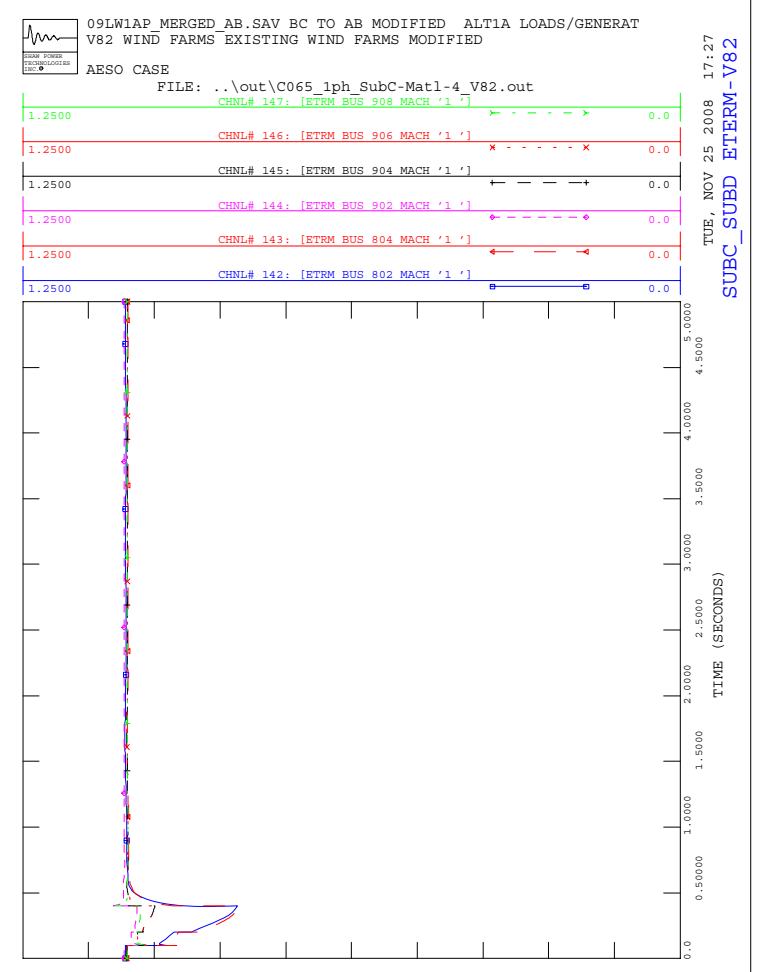
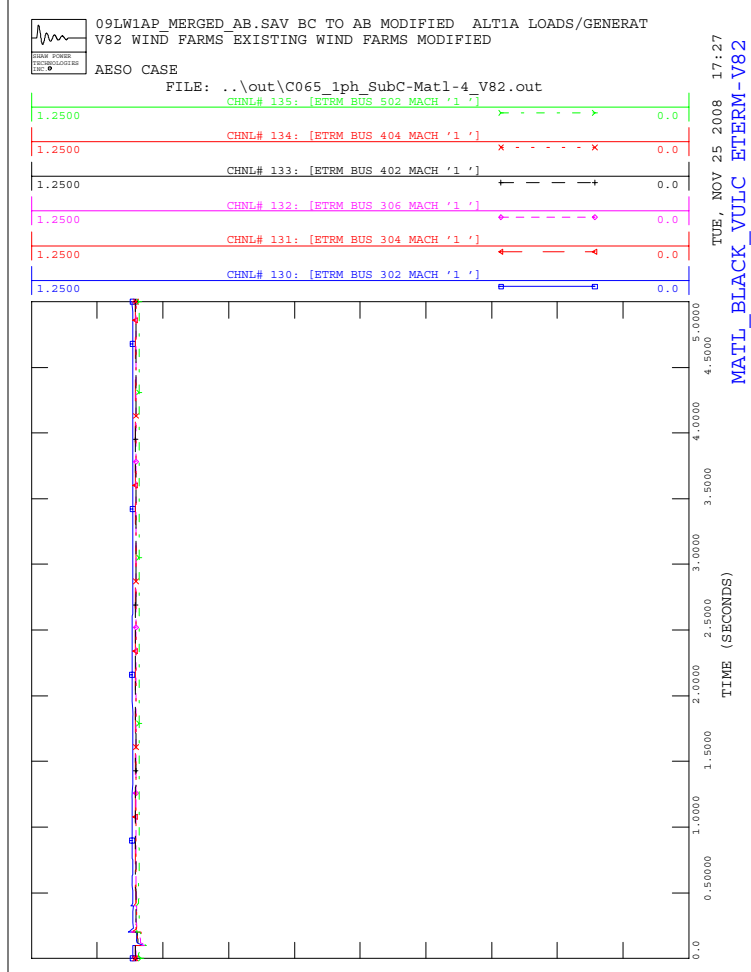
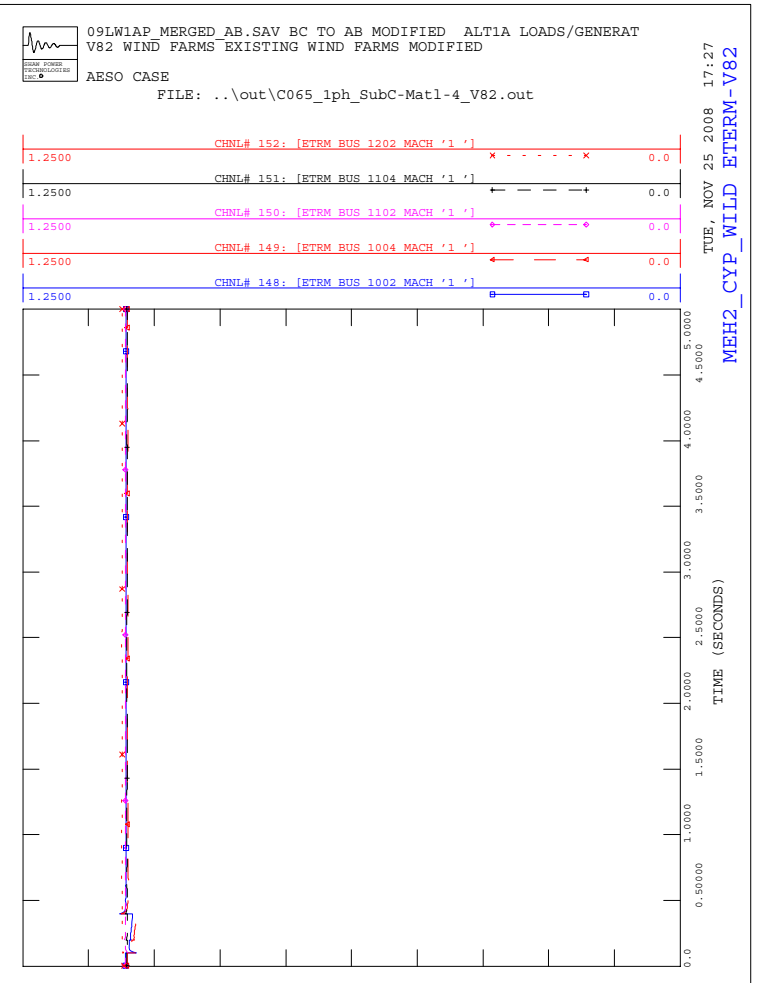
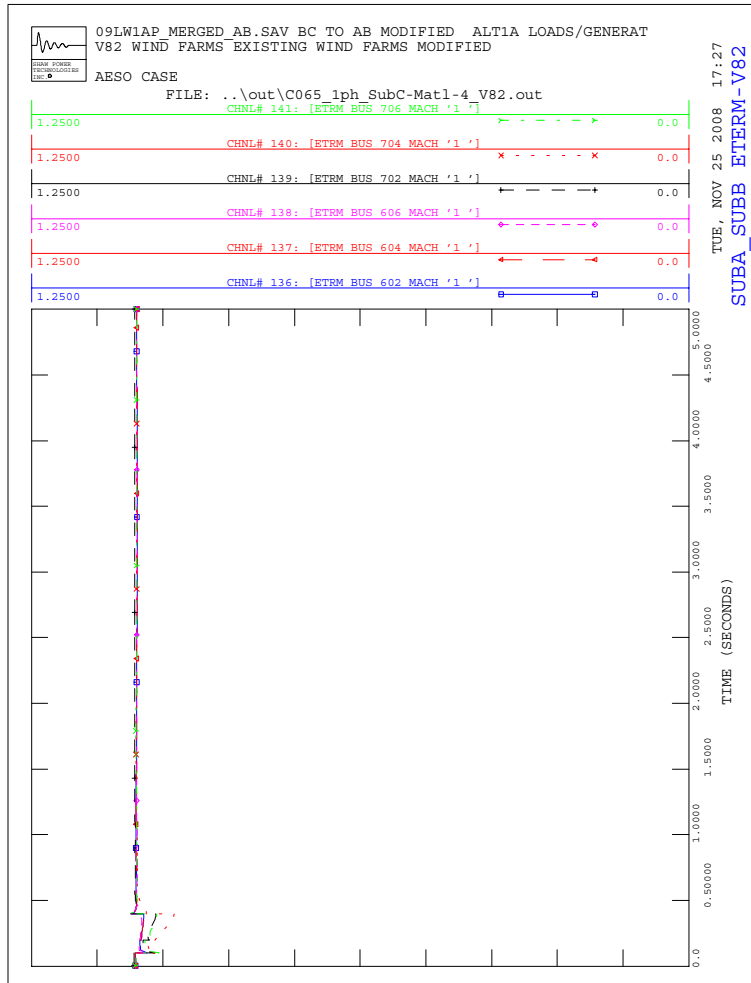


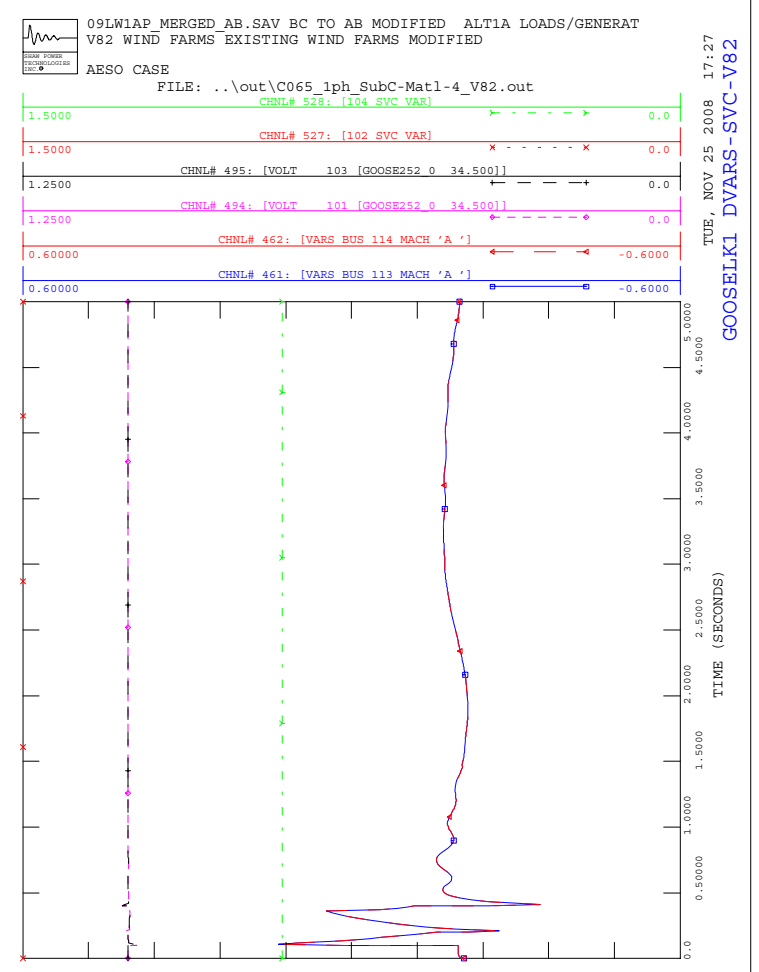
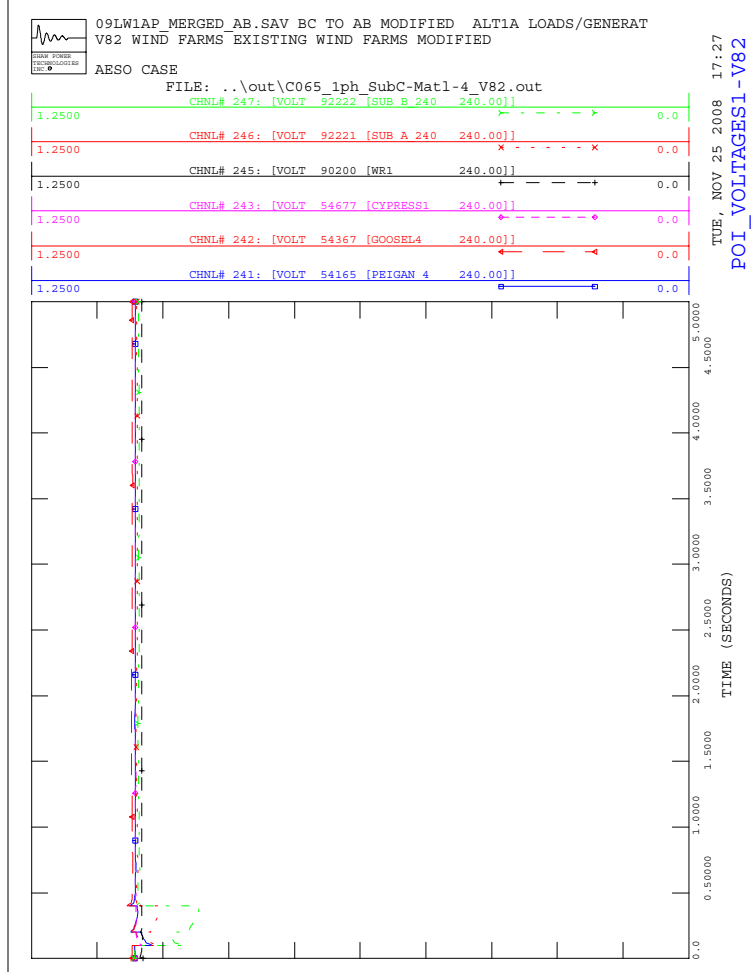
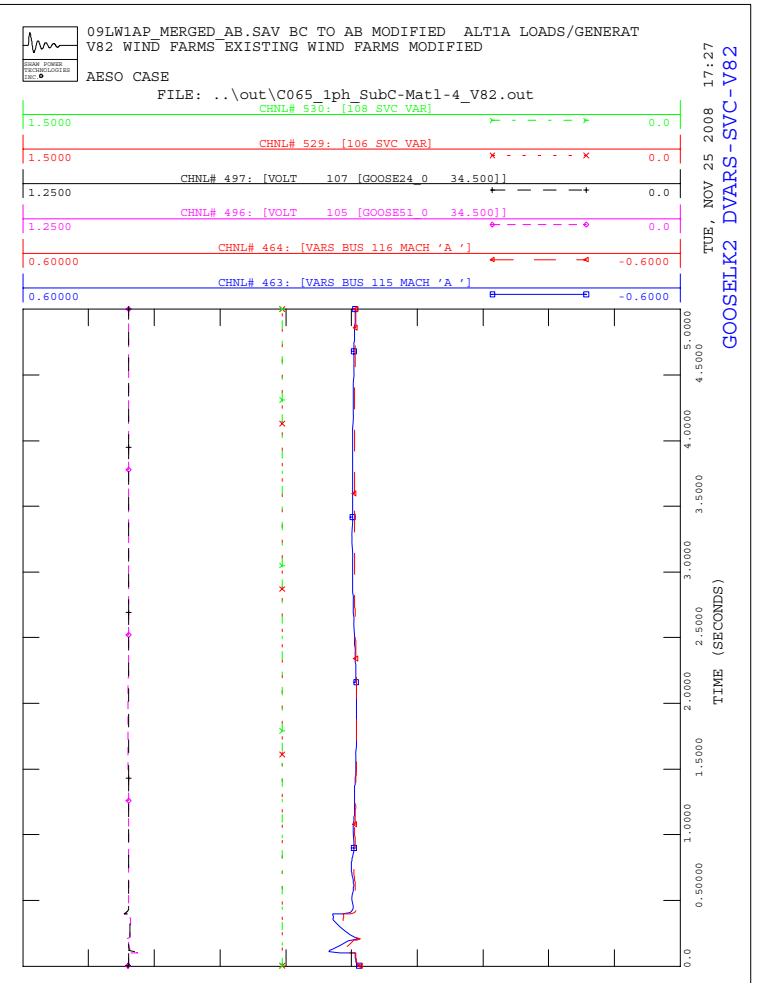
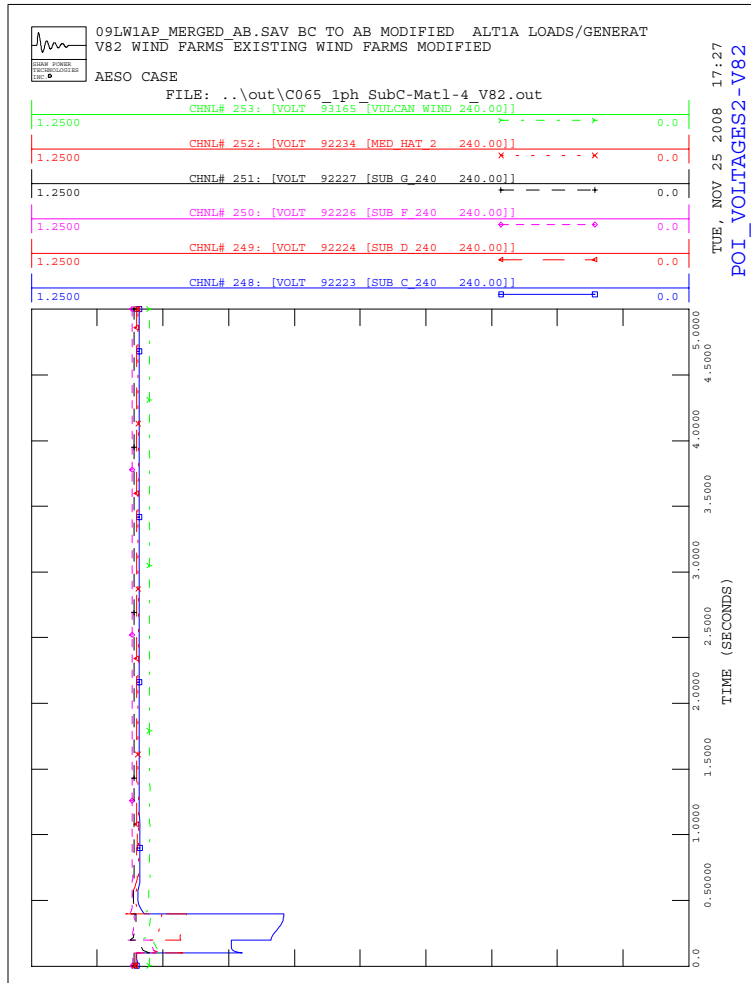
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out



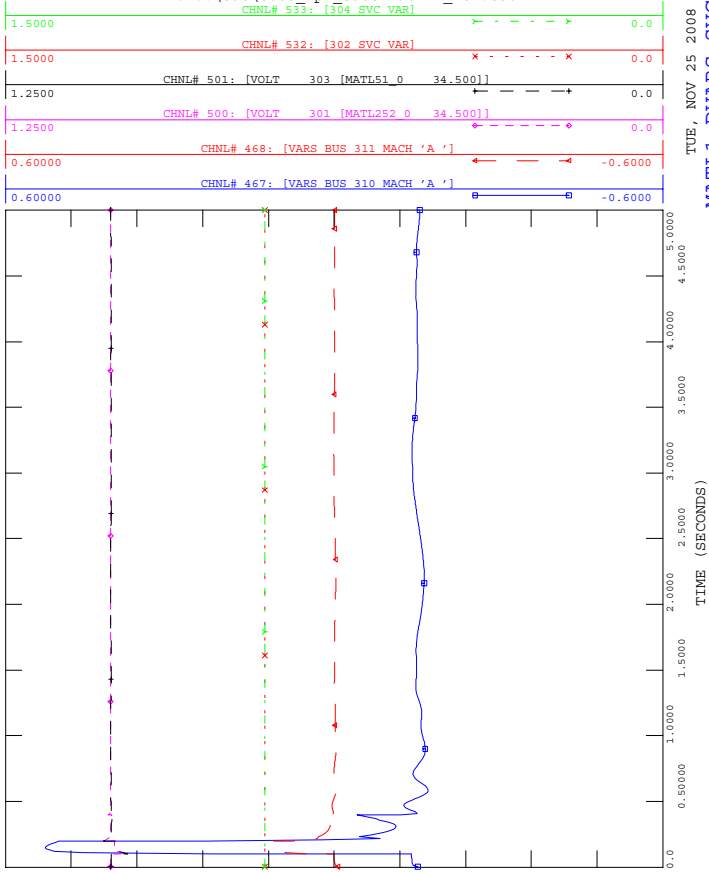






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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

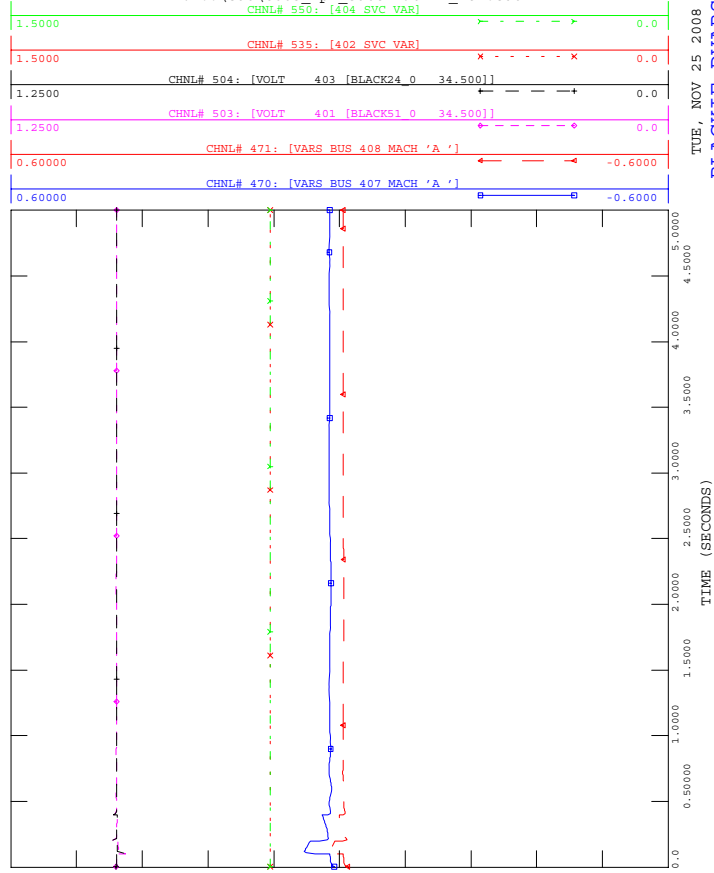
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TUE, NOV 25 2008 17:27
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

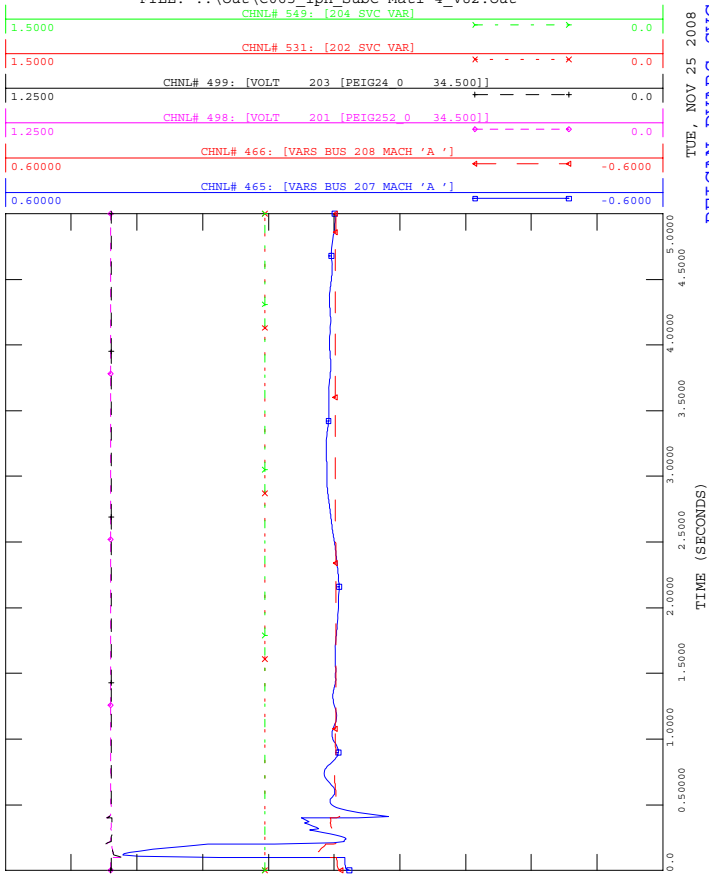
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TUE, NOV 25 2008 17:27
 BLACKIE DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

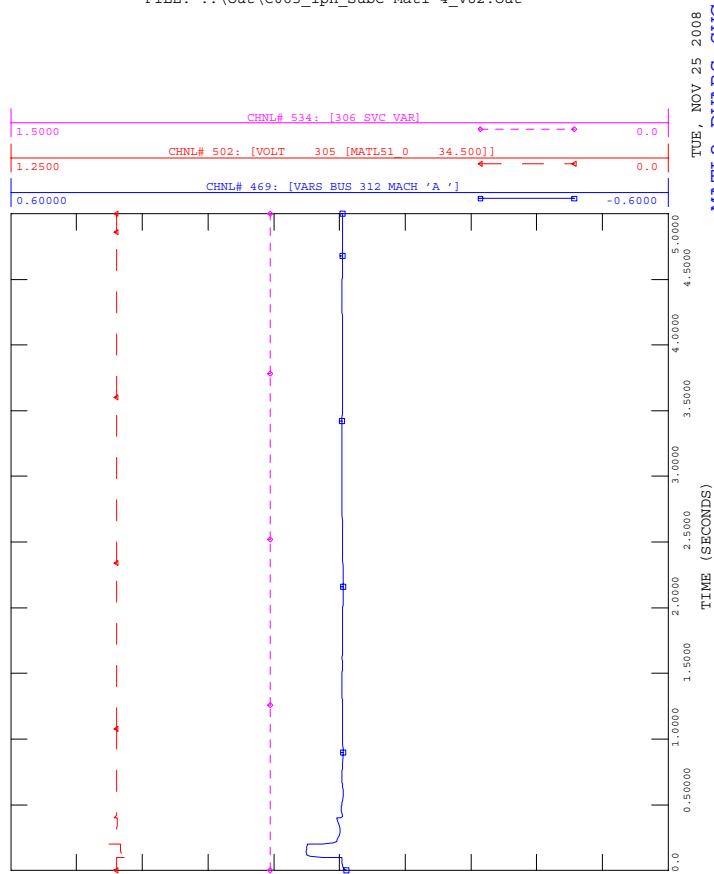
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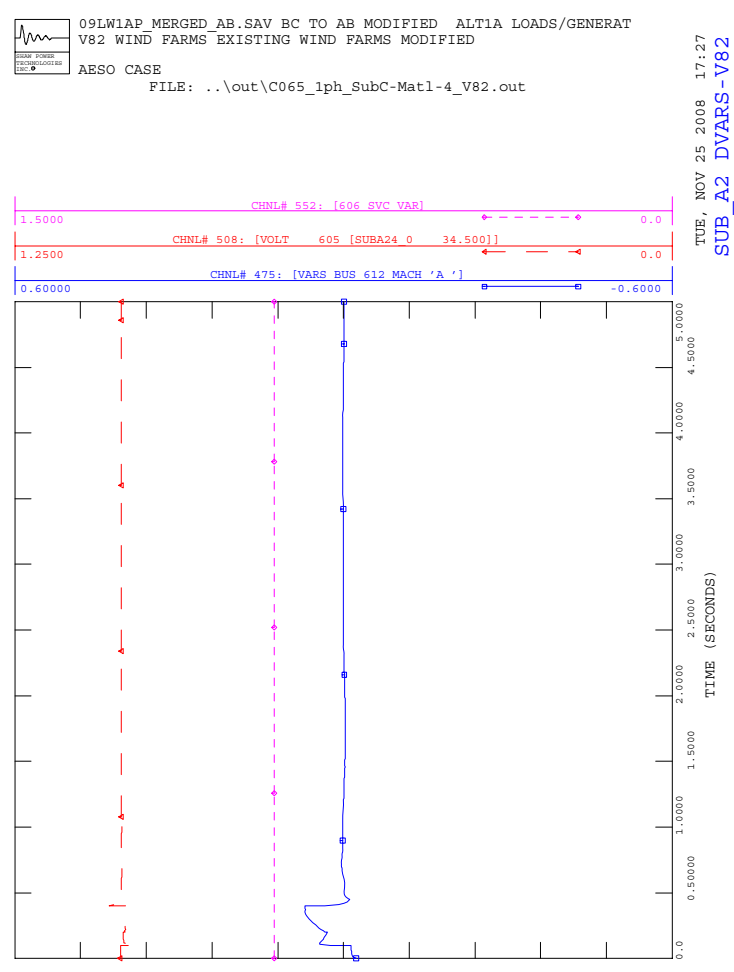
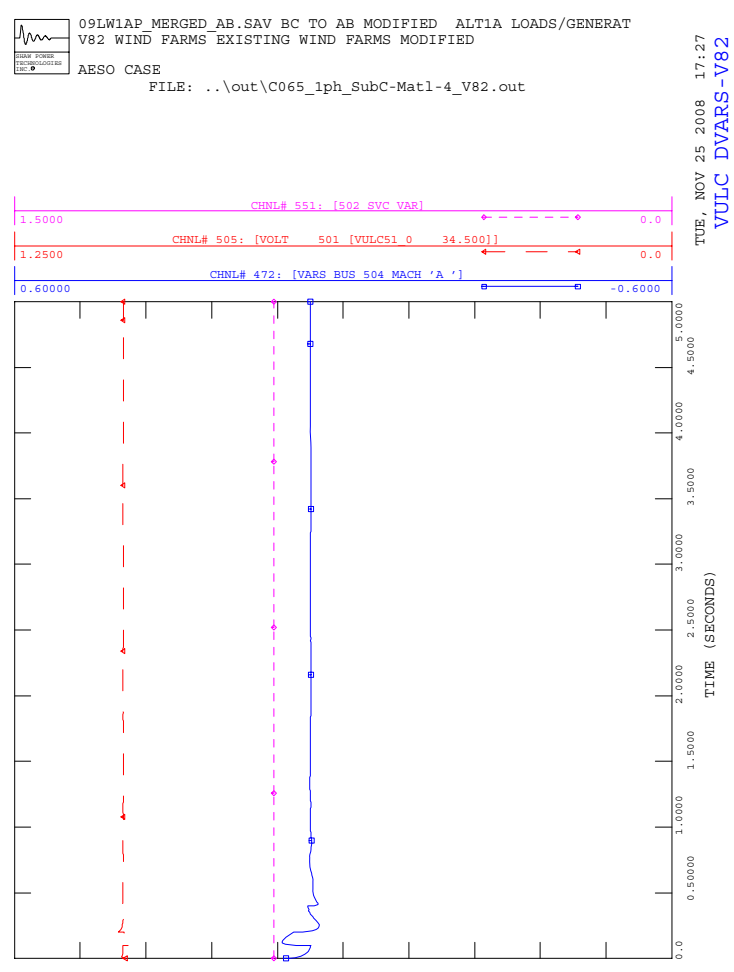
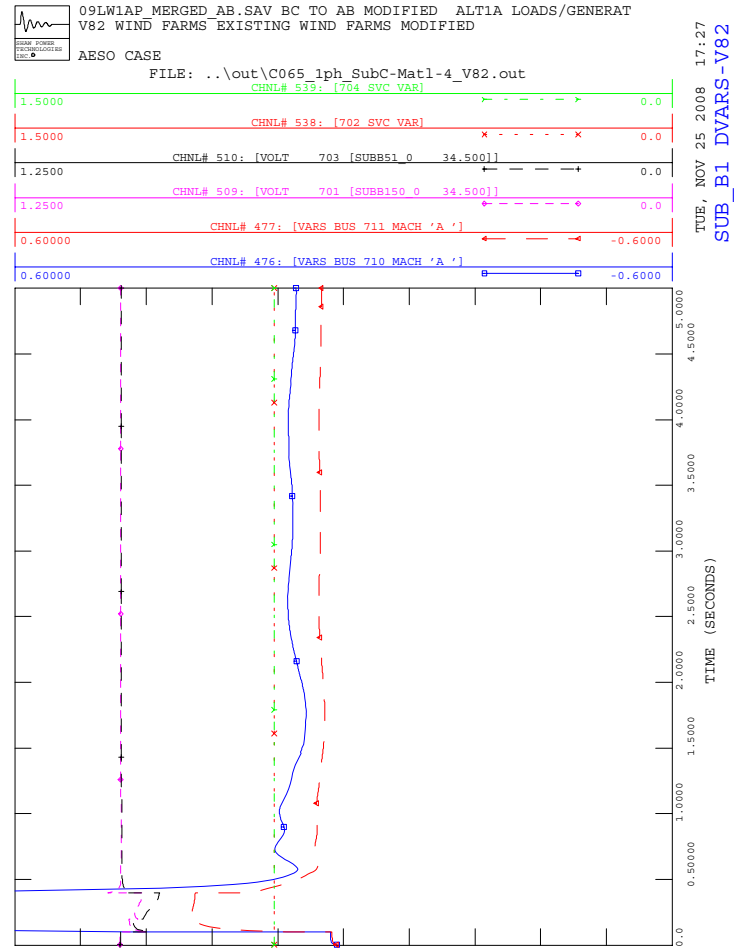
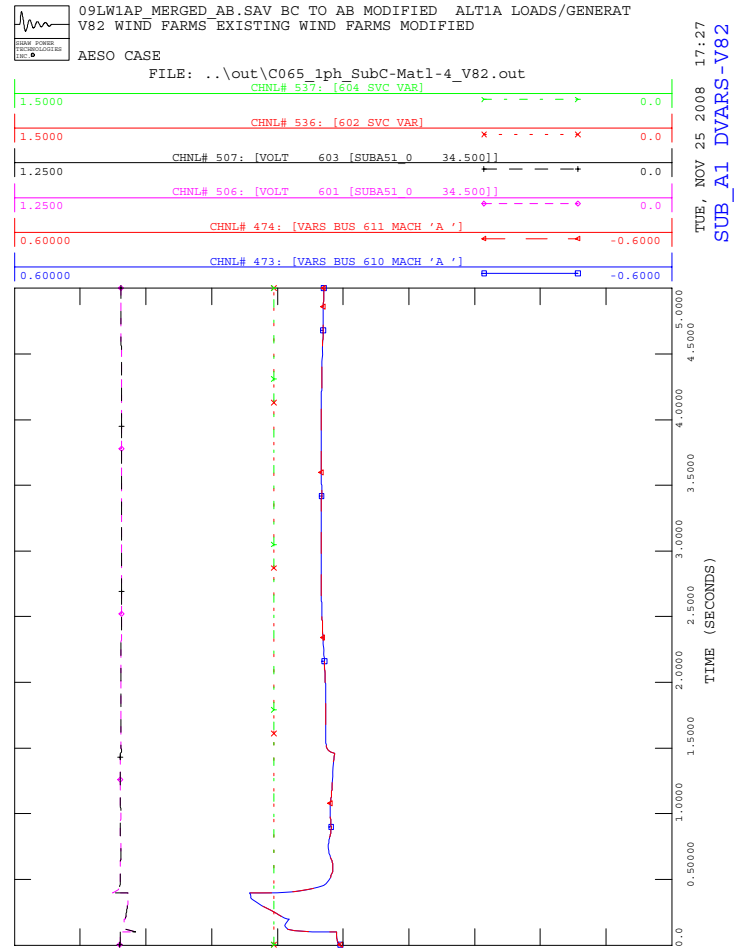
TUE, NOV 25 2008 17:27
 PEIGAN DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

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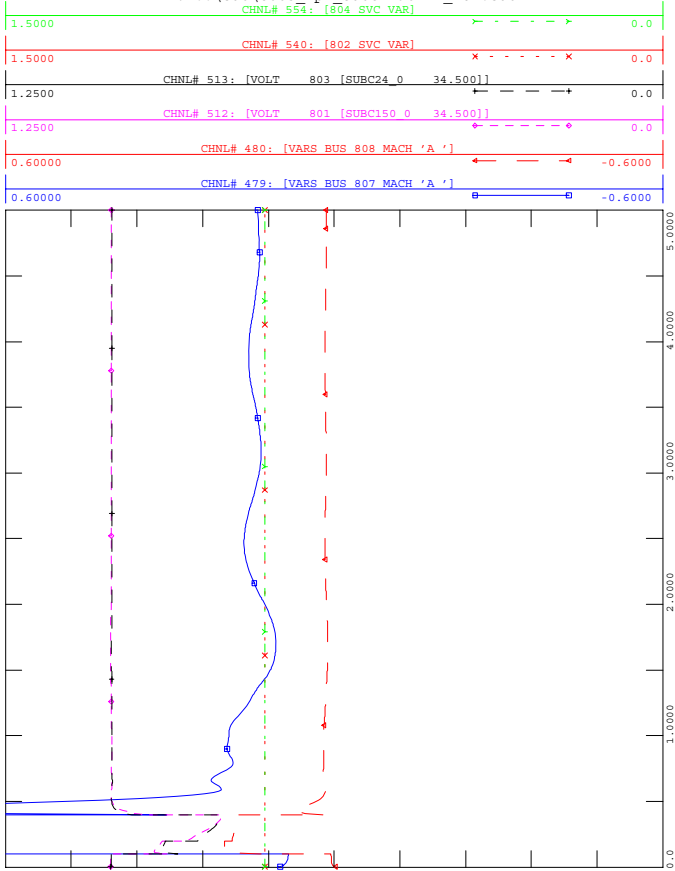


TUE, NOV 25 2008 17:27
 MATL2 DVARS-SVC-V82



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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

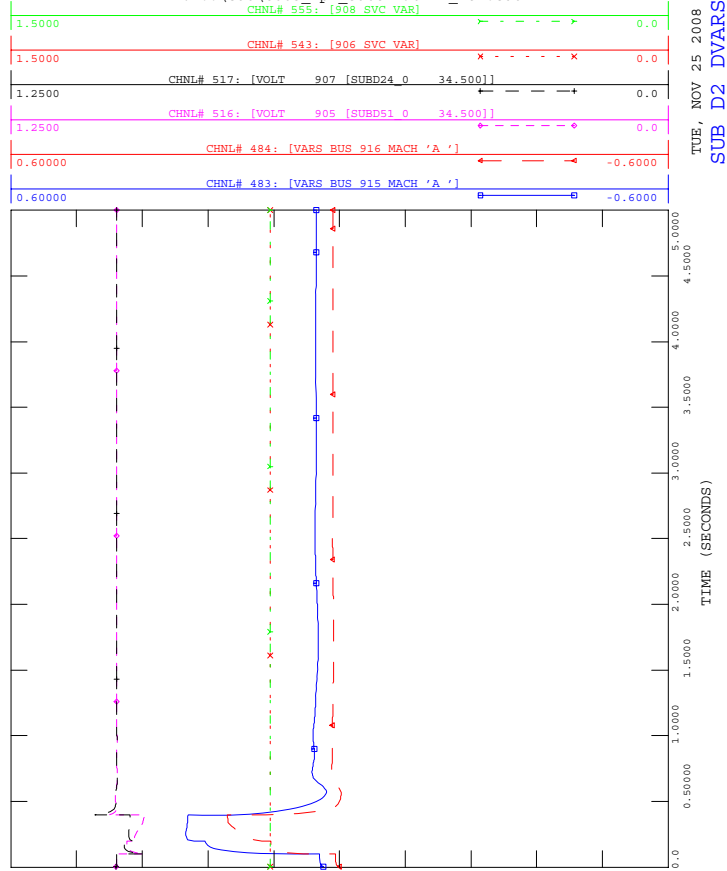
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TUE, NOV 25 2008 17:27
 SUB_C DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

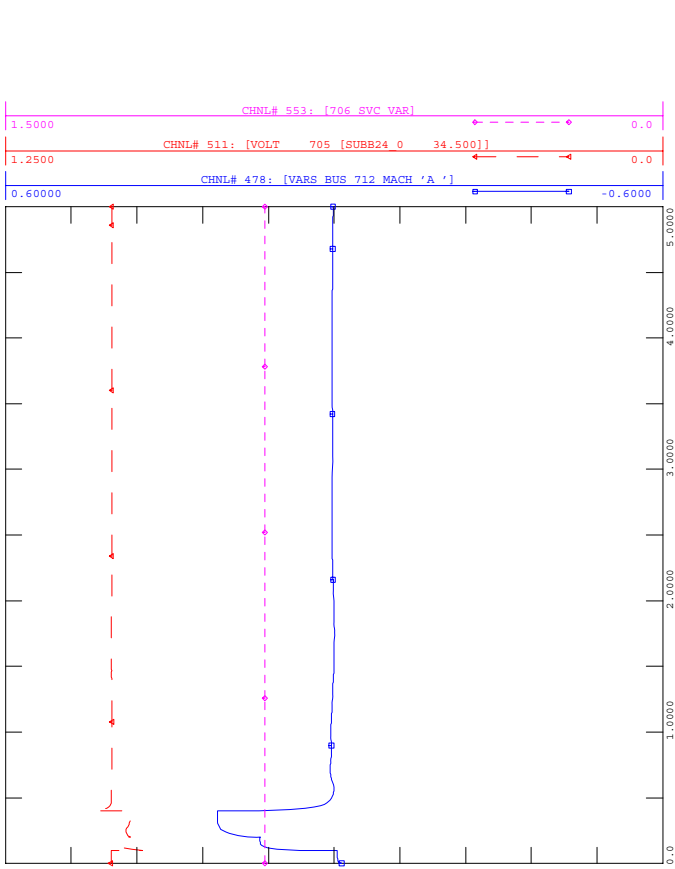
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TUE, NOV 25 2008 17:27
 SUB_D2 DVARS-V82

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 AESO CASE

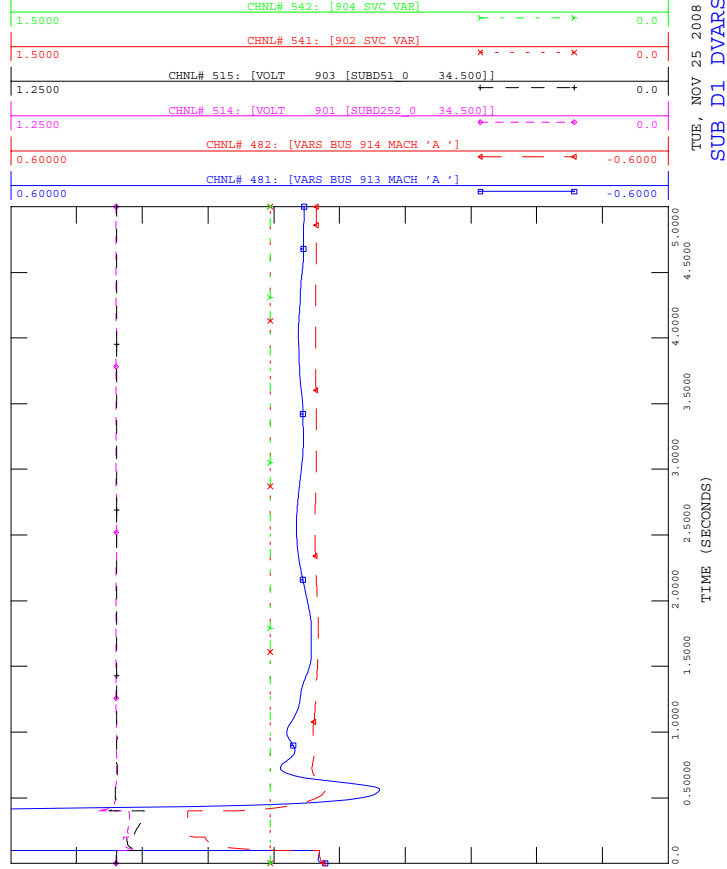
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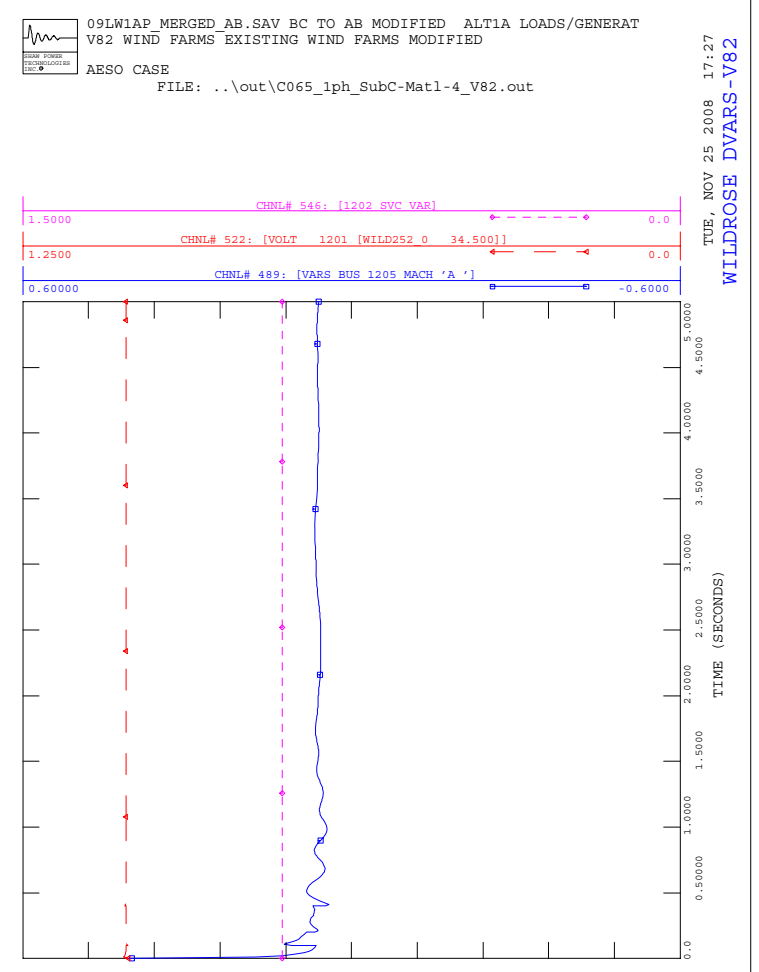
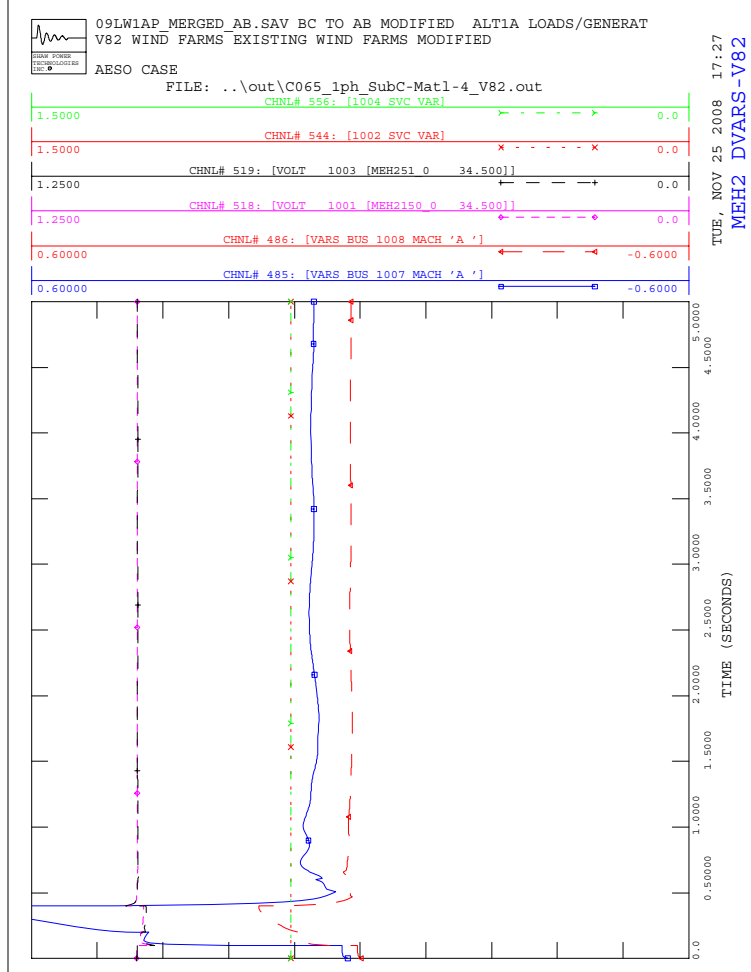
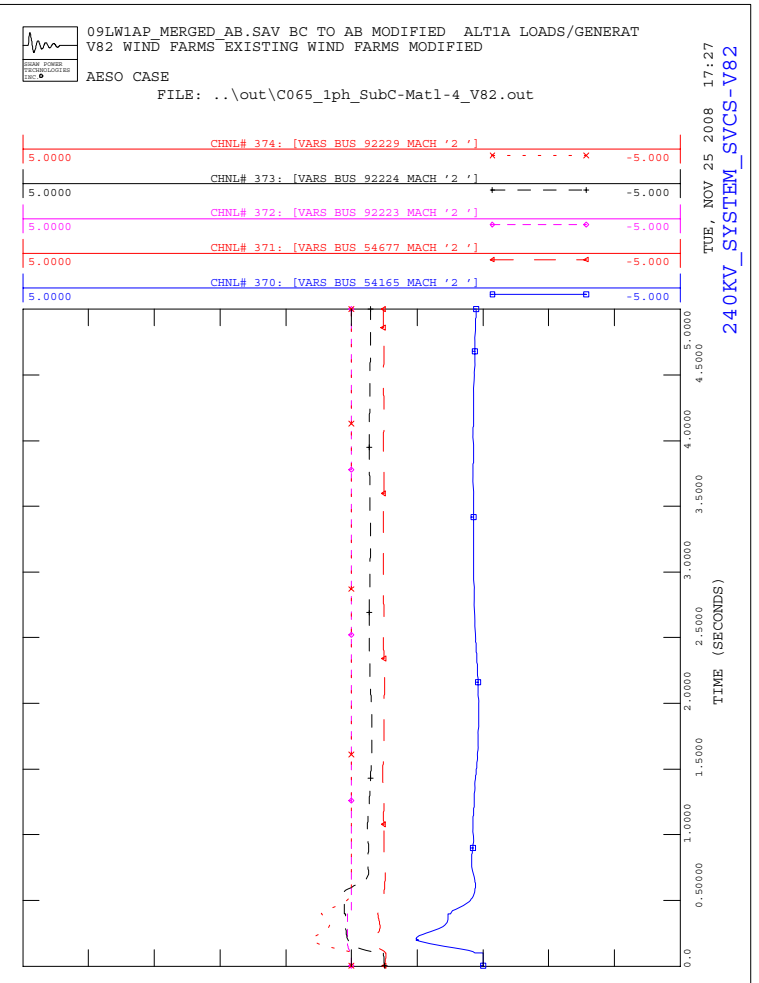
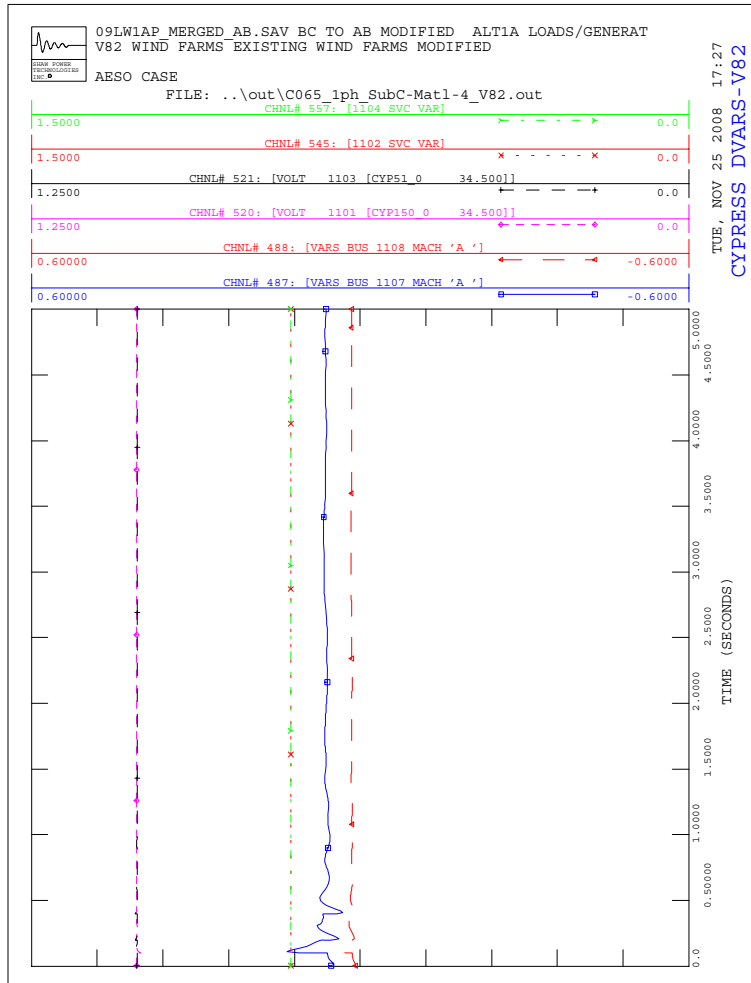
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 SUB_B2 DVARS-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out



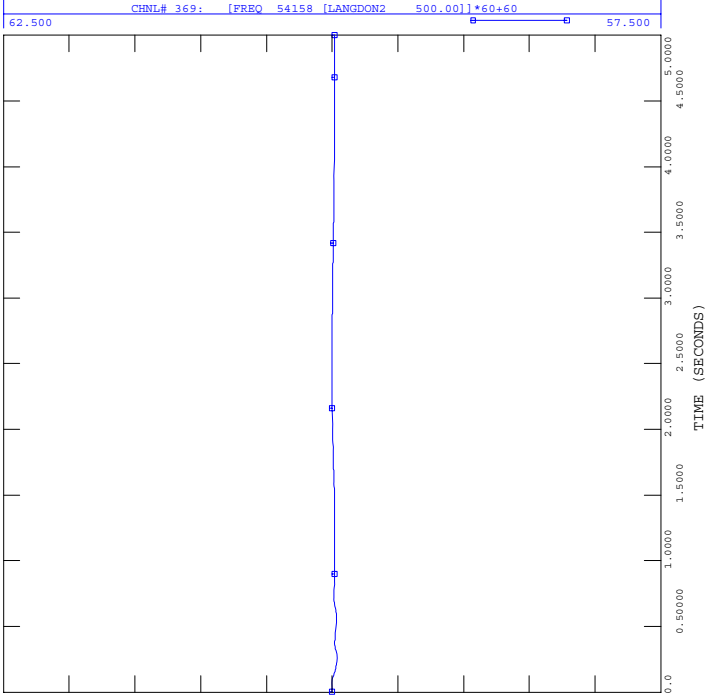
TUE, NOV 25 2008 17:27
 SUB_D1 DVARS-V82





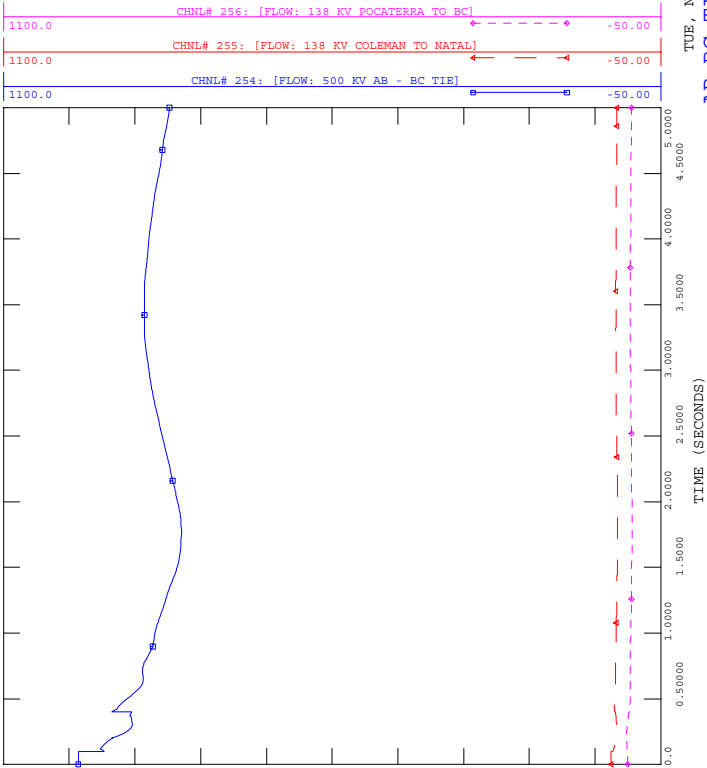
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out

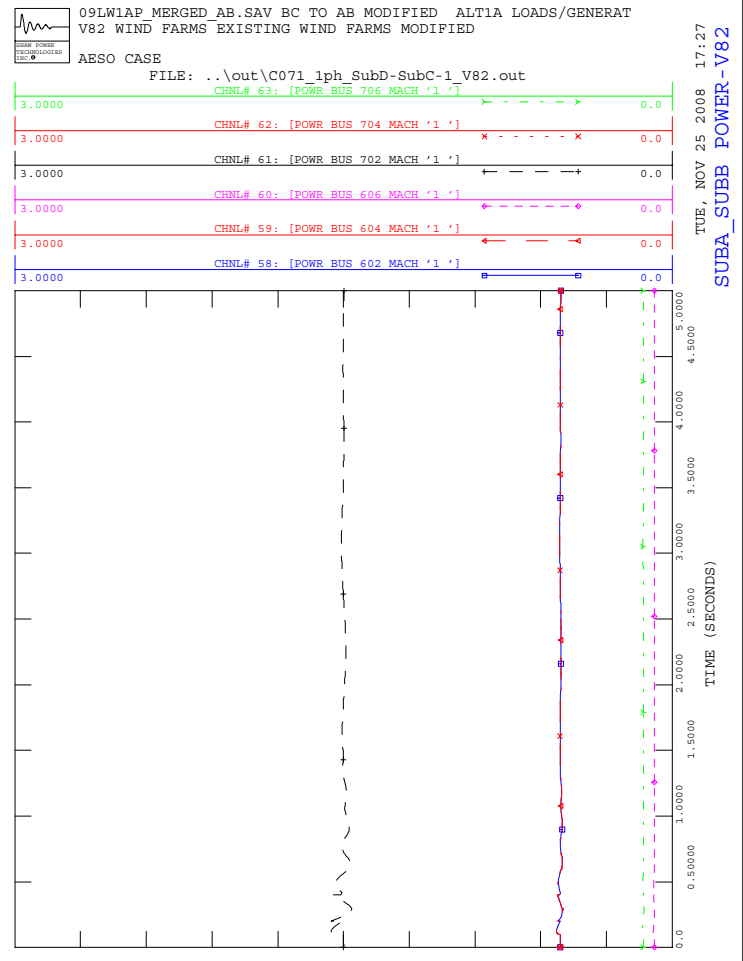
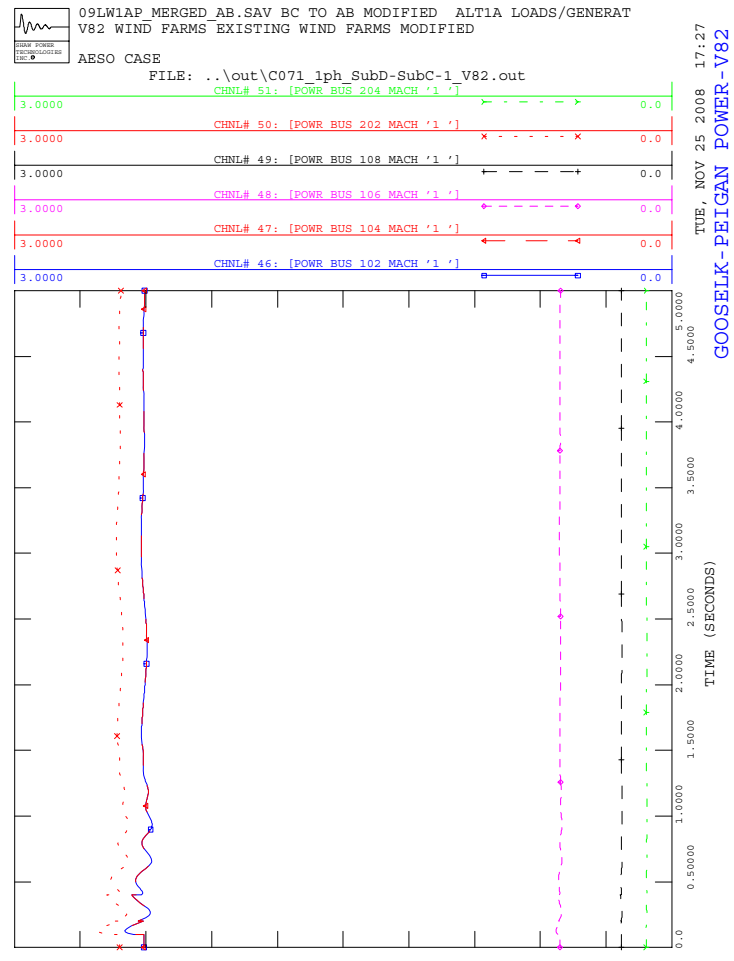
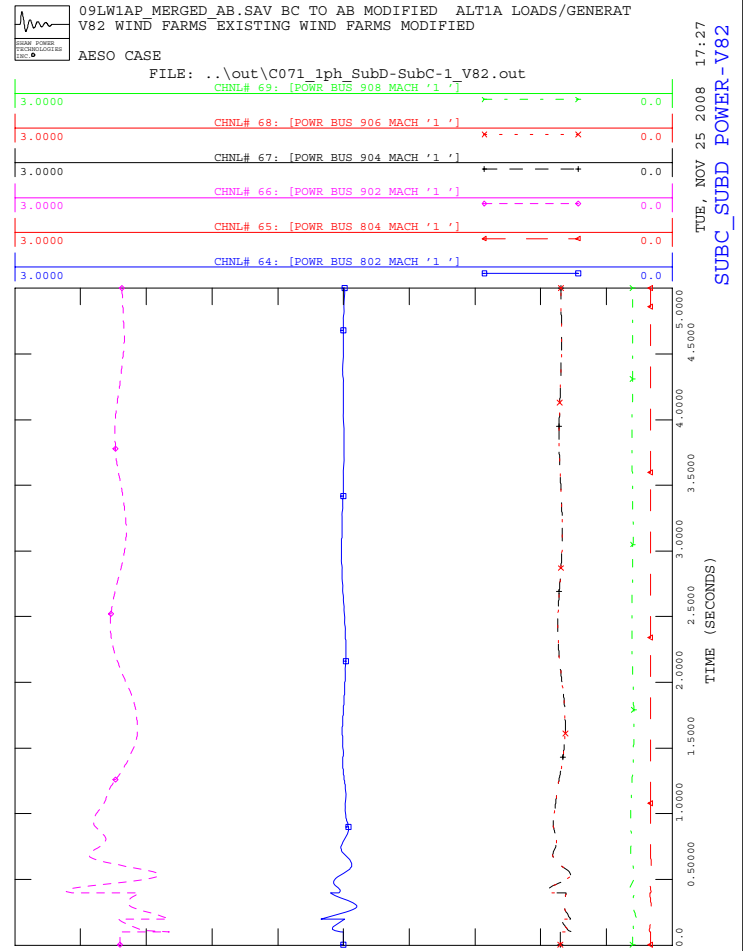
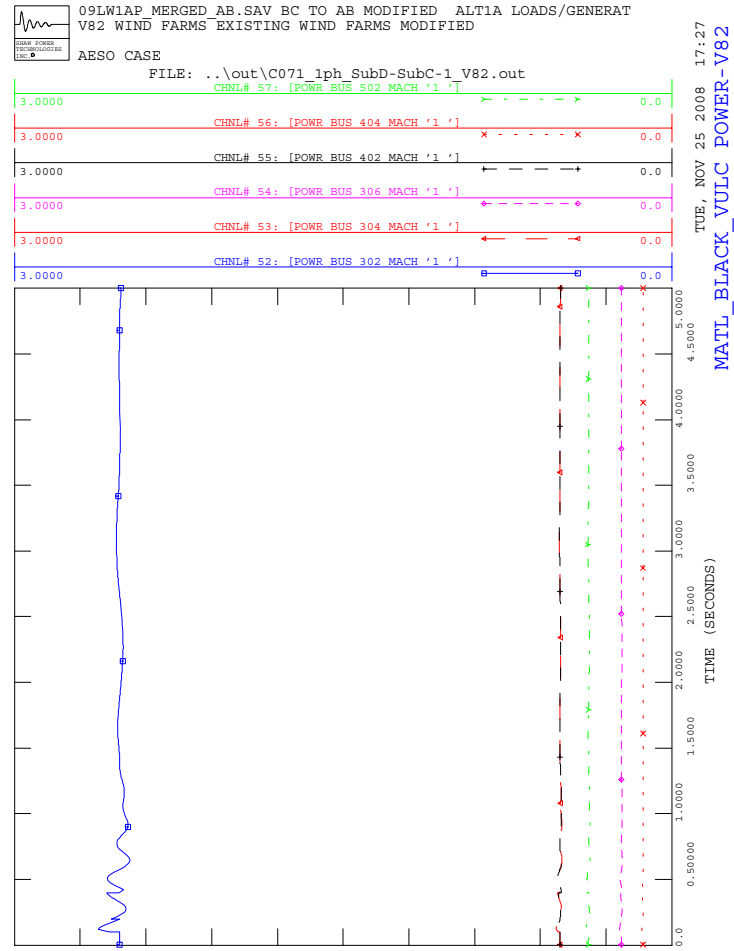
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82

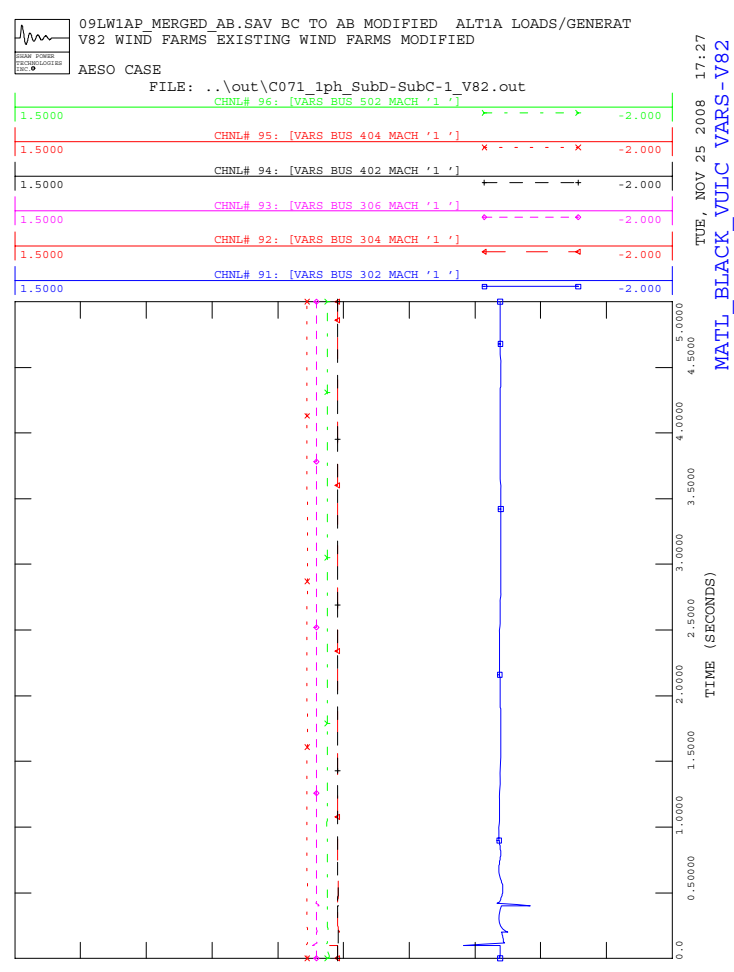
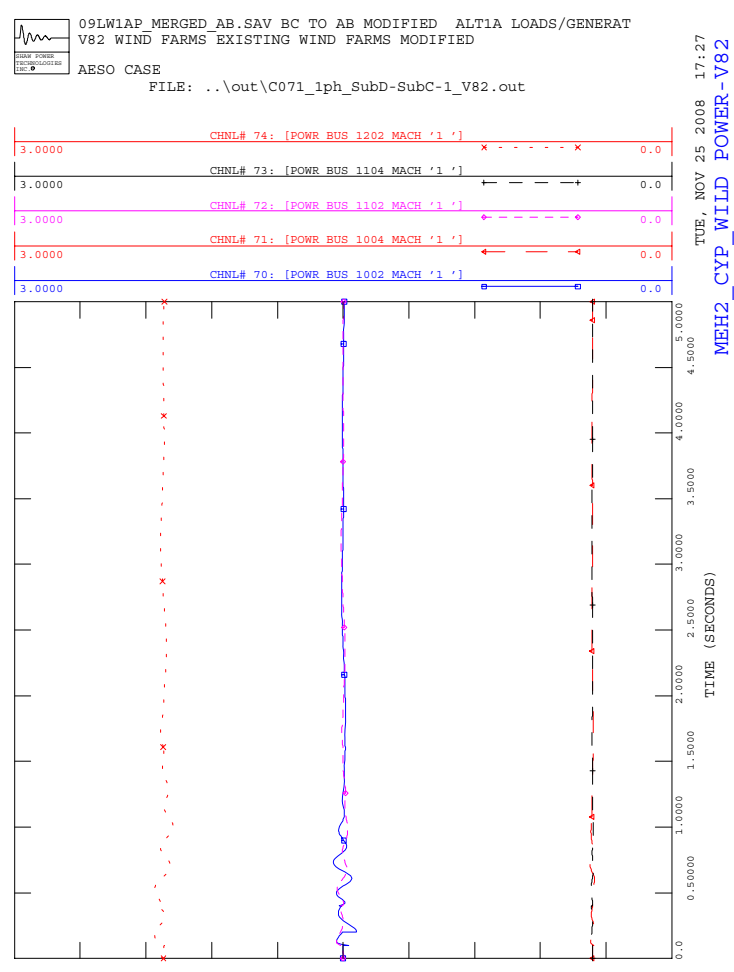
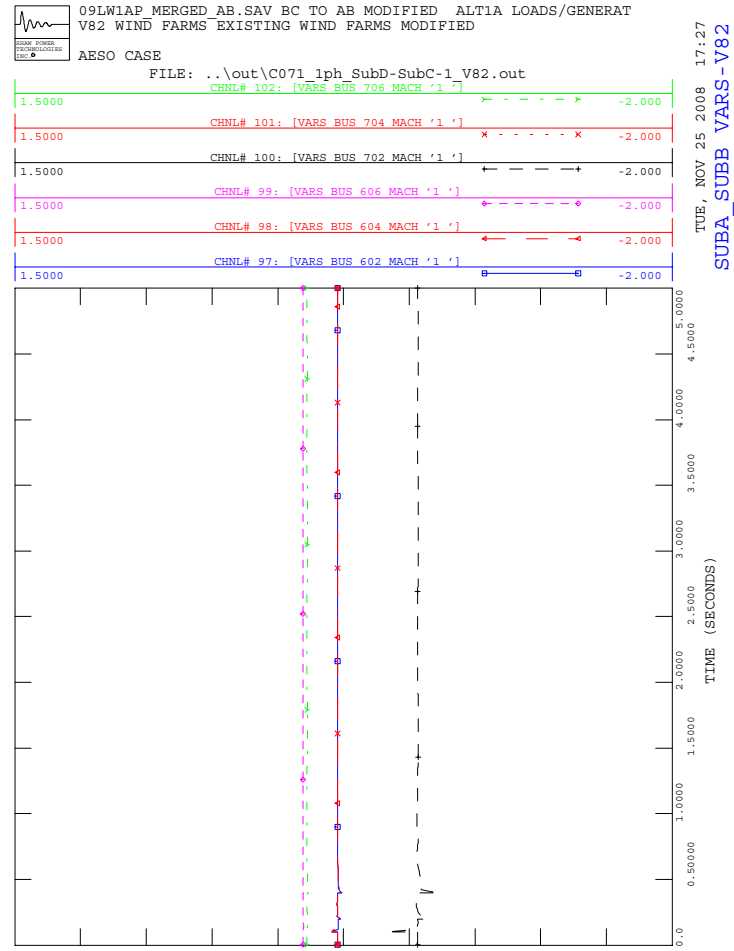
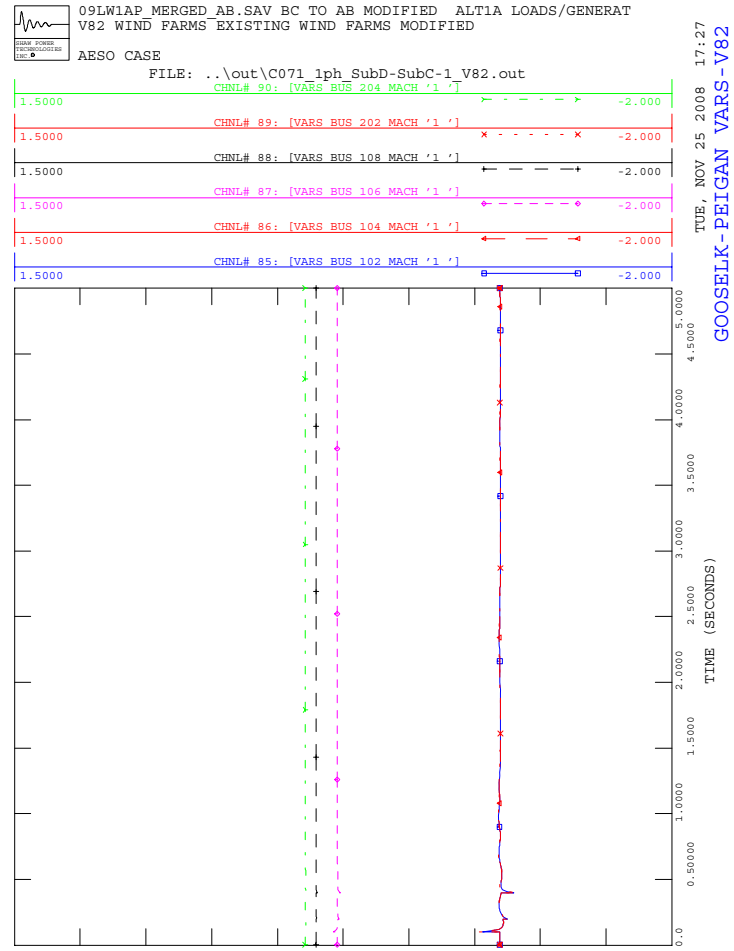


09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C065_1ph_SubC-Mat1-4_V82.out

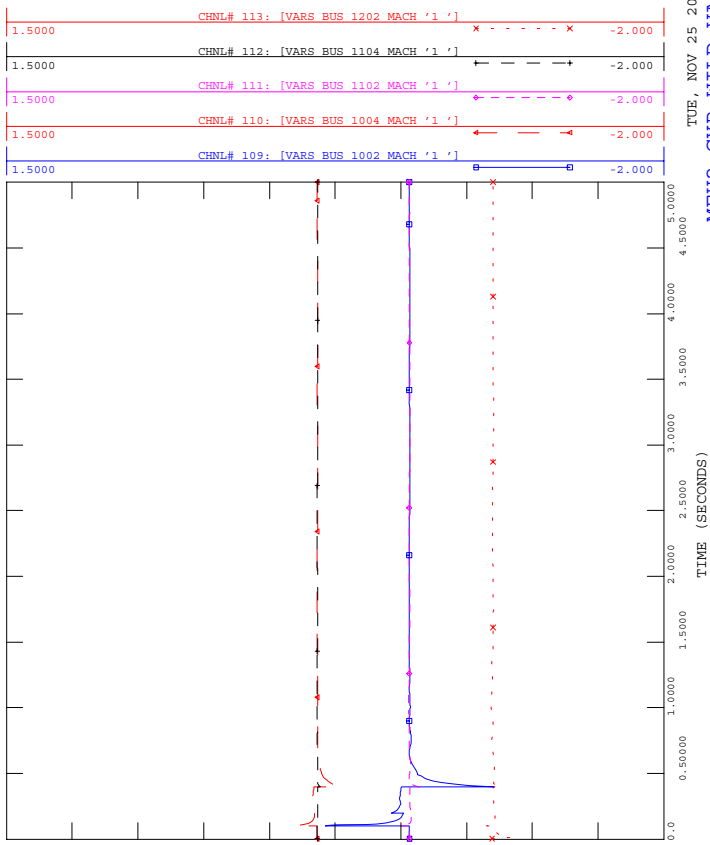
TUE, NOV 25 2008 17:27
AB_BC_TIE_FLOWS-V82





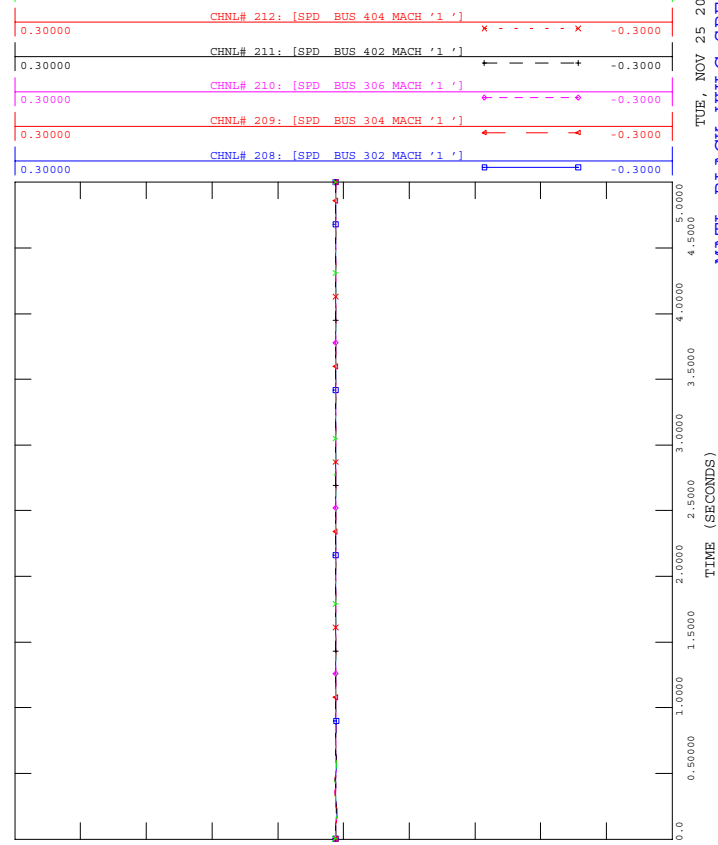


09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTIA LOADS/GENERAT
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 AESO CASE
 FILE: ..\out\C071_1ph_SubD-SubC-1_V82.out



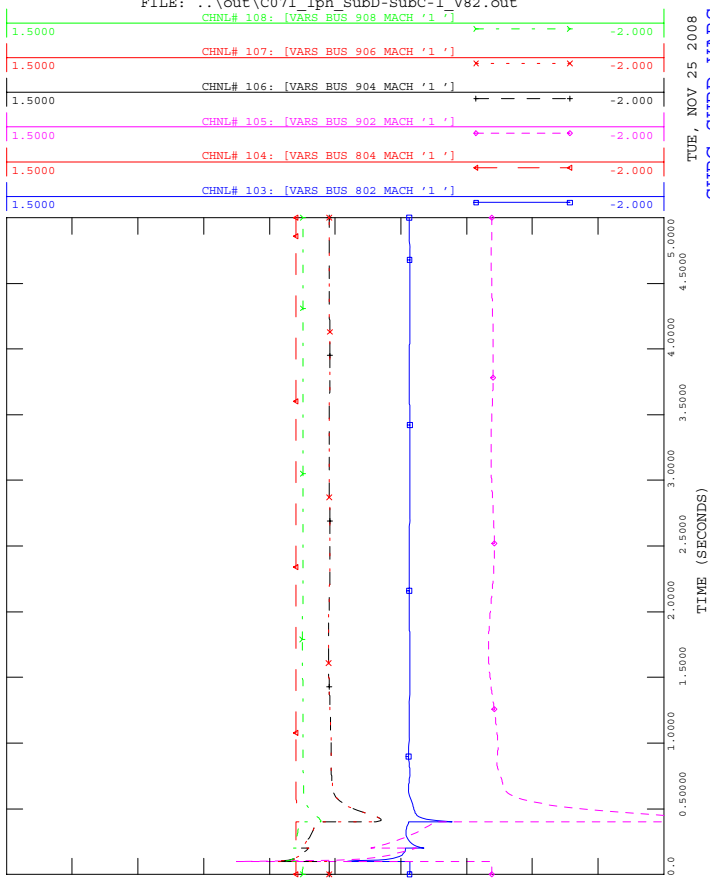
TUE, NOV 25 2008 17:27
 MEH2_CYP_WILD_VARS-V82

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 AESO CASE
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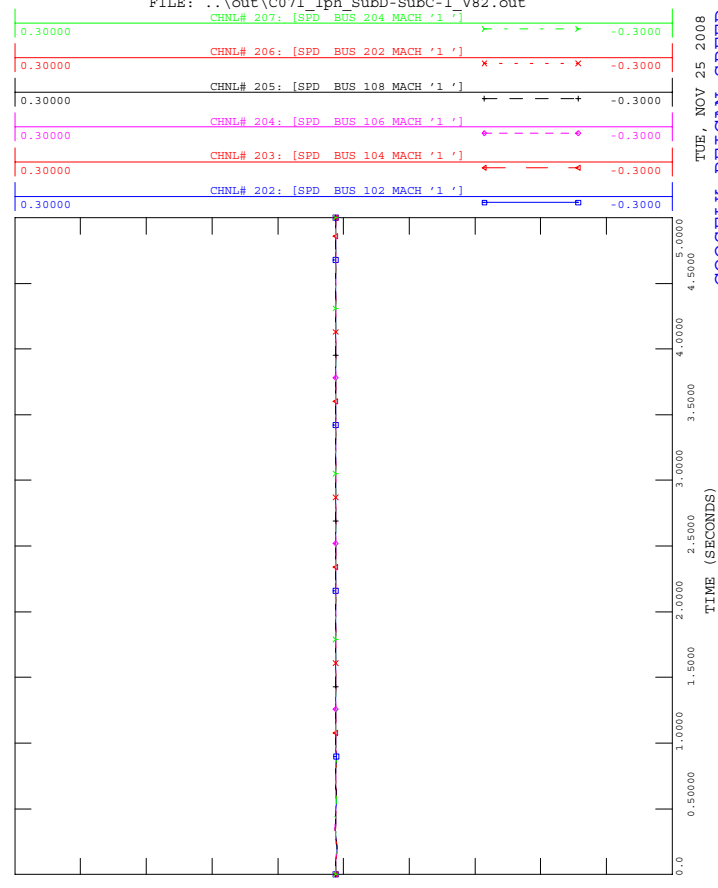
TUE, NOV 25 2008 17:27
 MAIL_BLACK_VULC_SPEED-V82

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 AESO CASE
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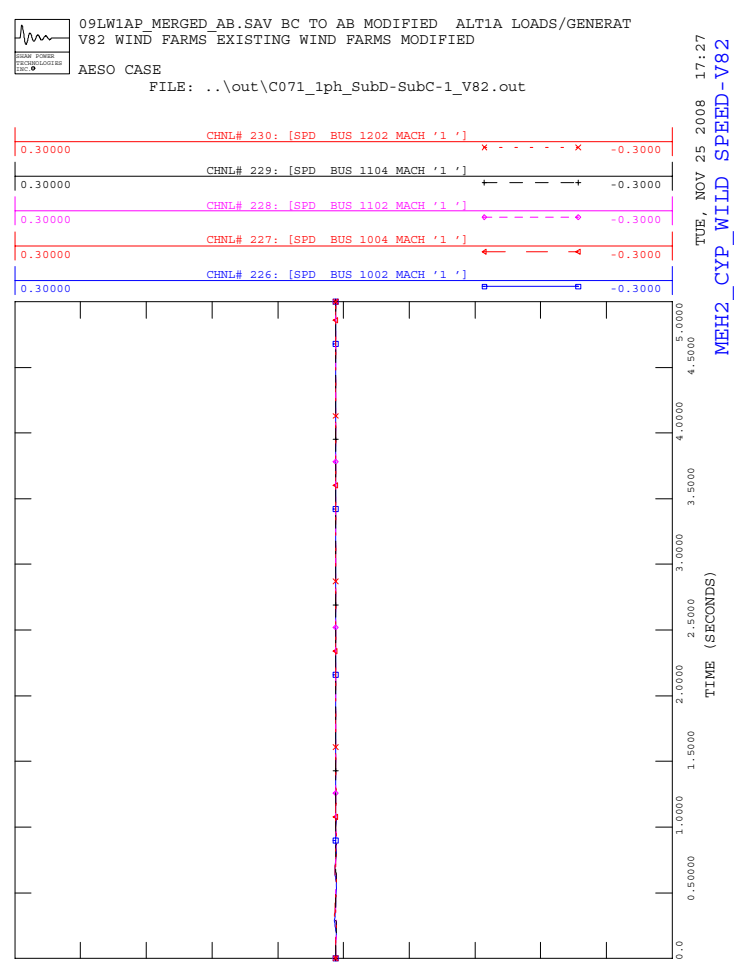
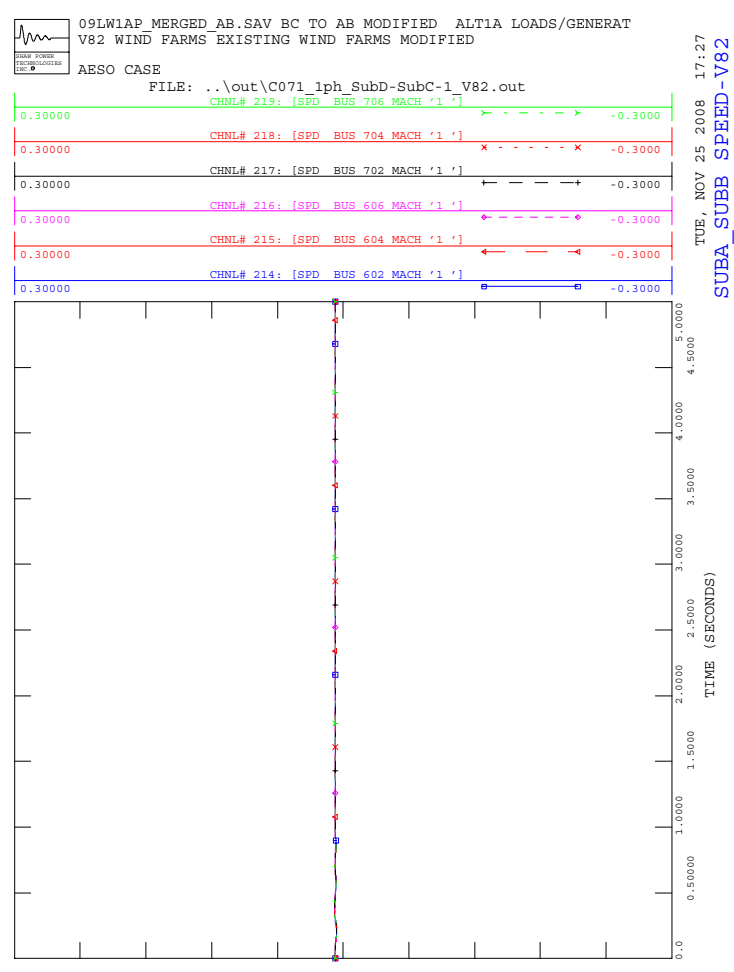
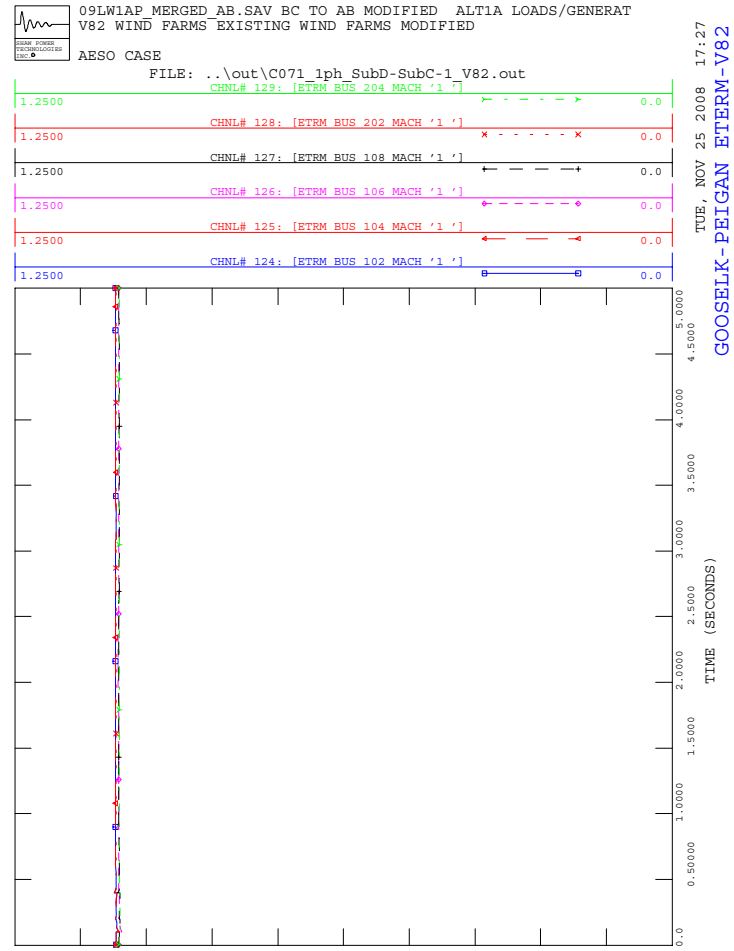
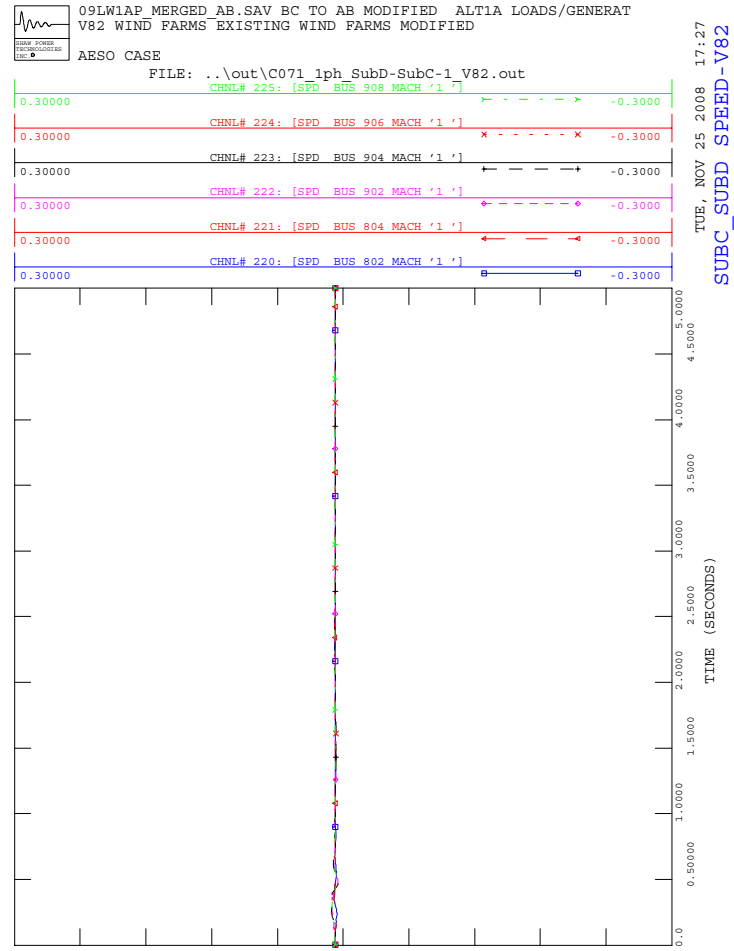


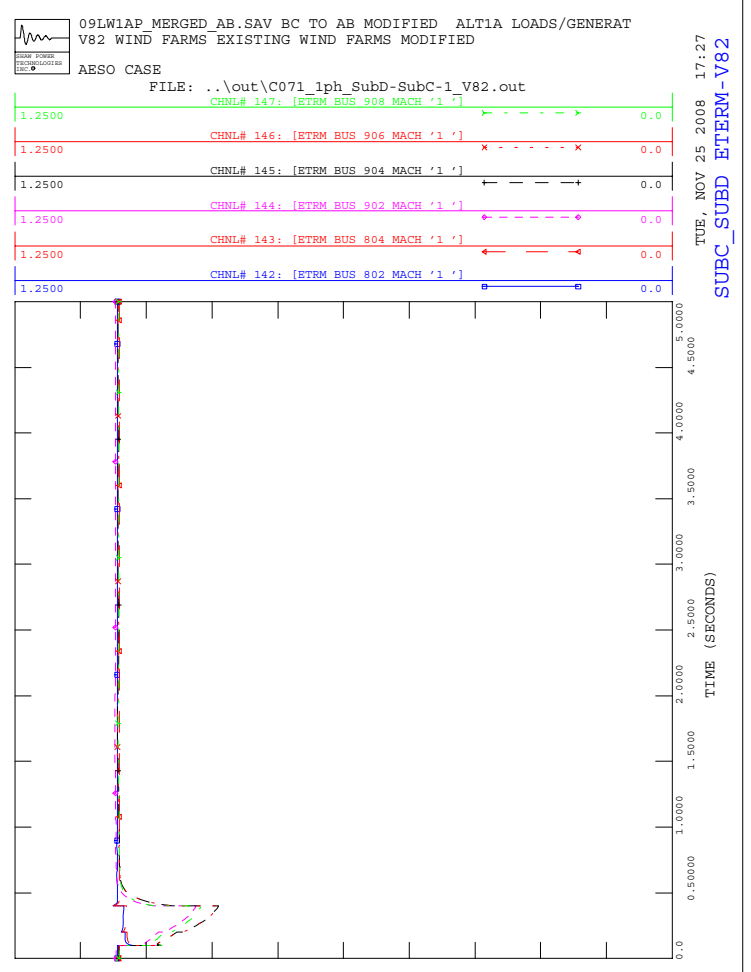
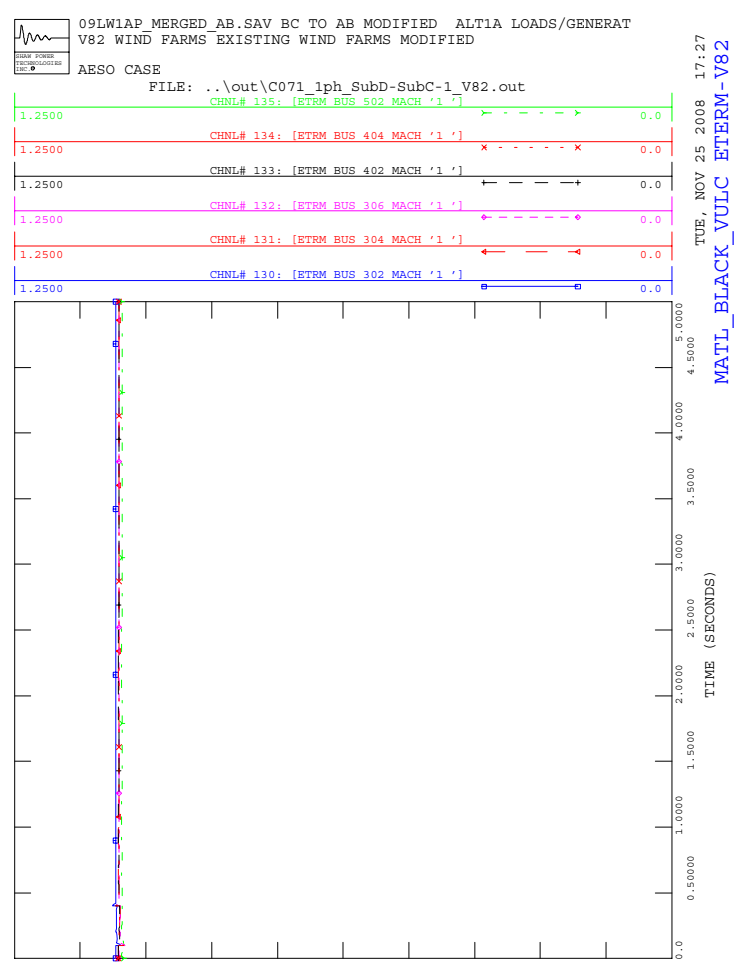
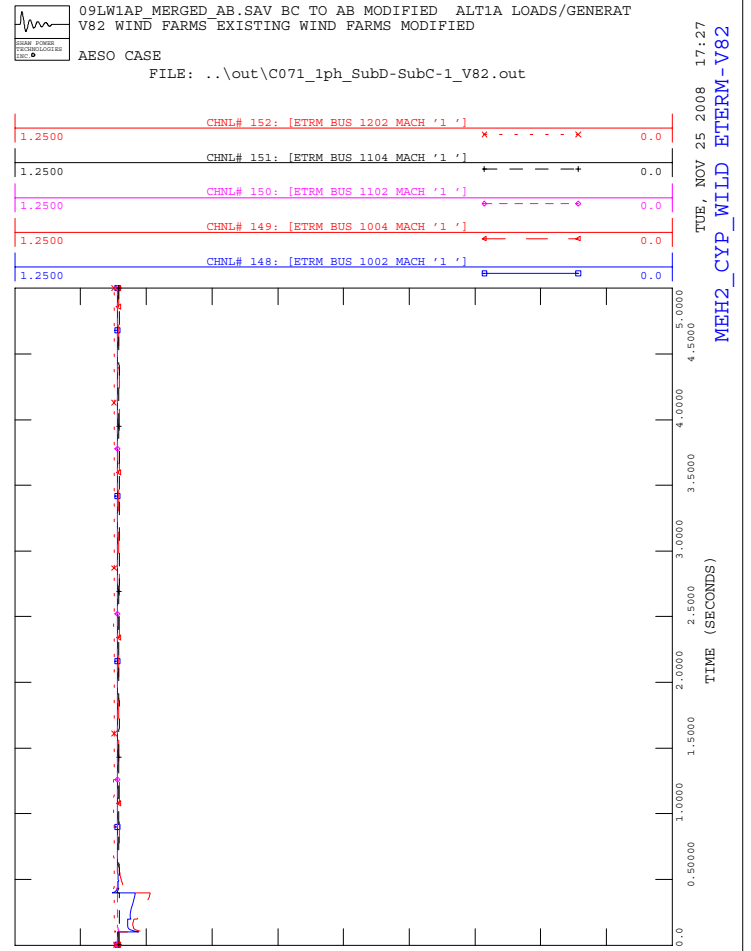
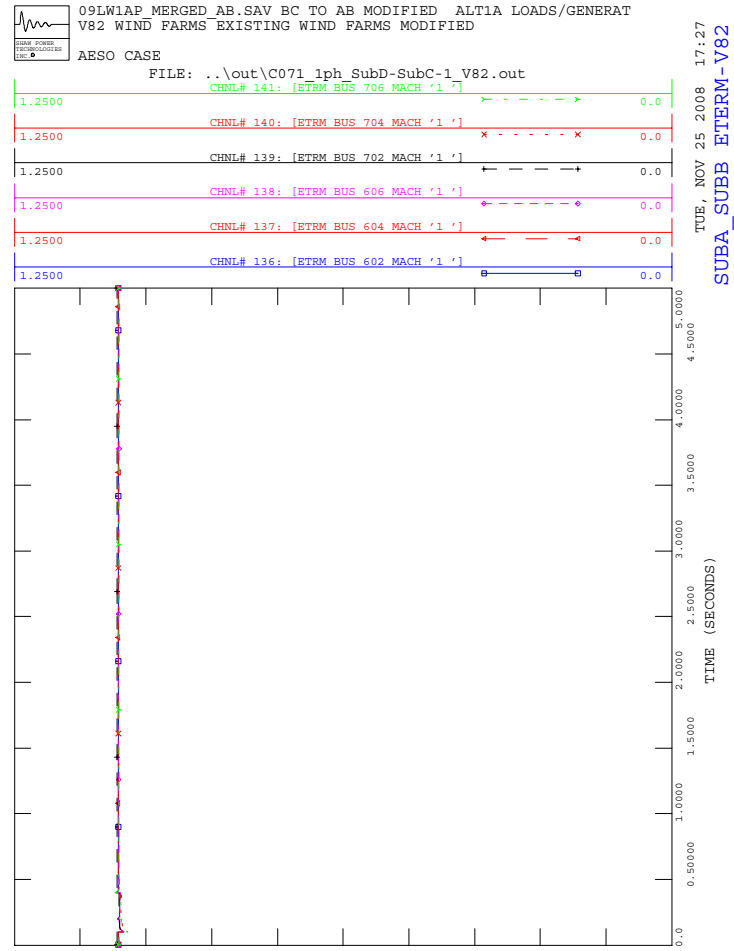
TUE, NOV 25 2008 17:27
 SUBC_SUBD_VARS-V82

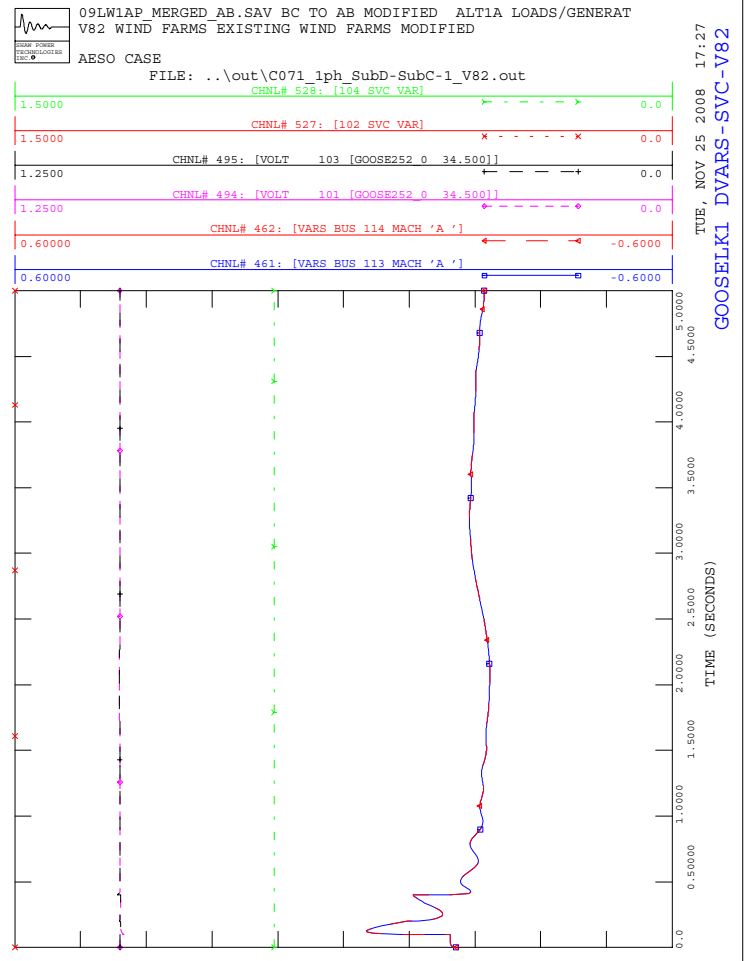
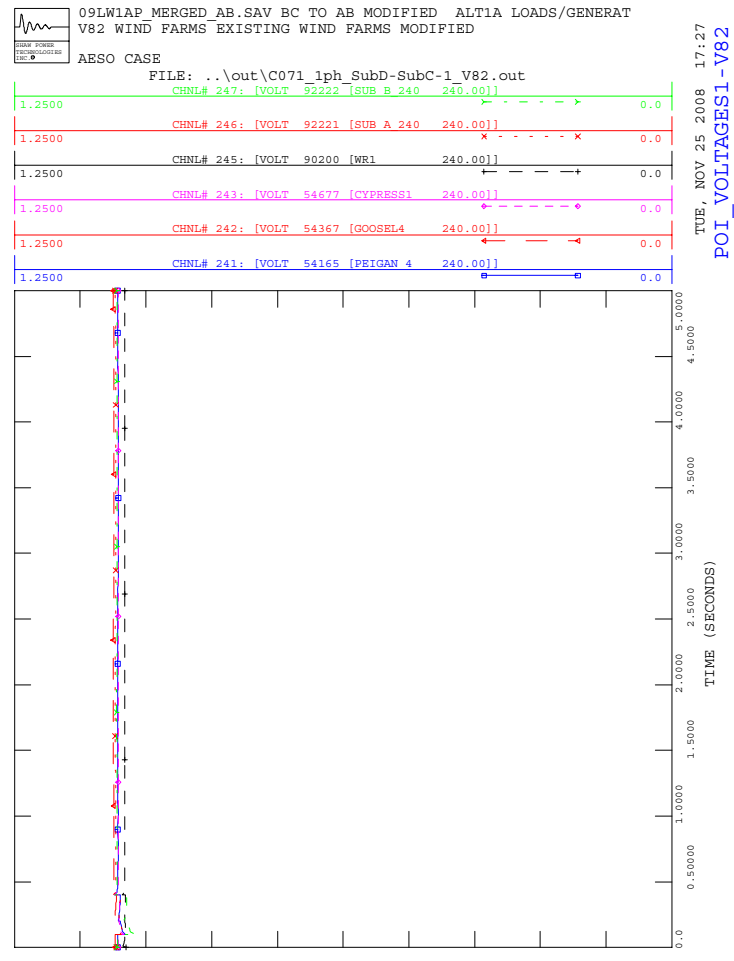
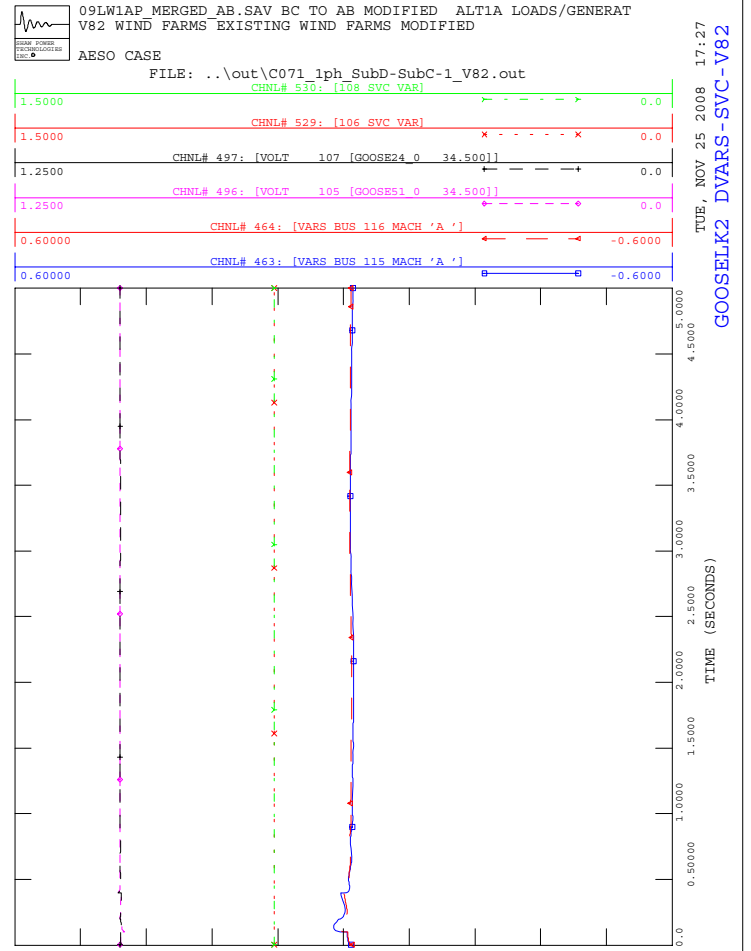
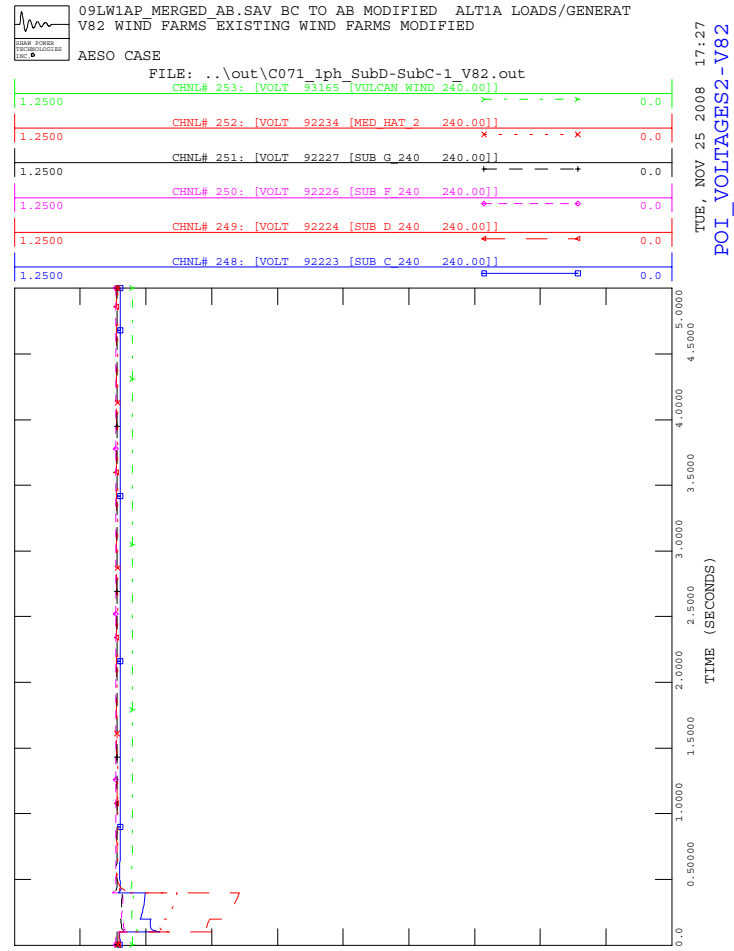
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE
 FILE: ..\out\C071_1ph_SubD-SubC-1_V82.out

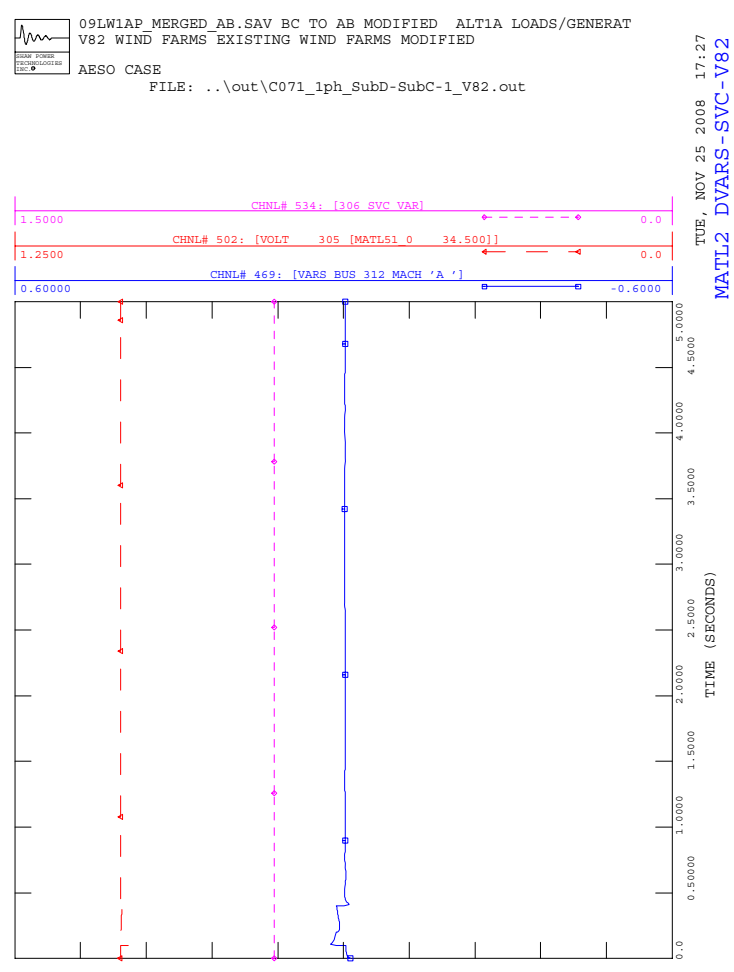
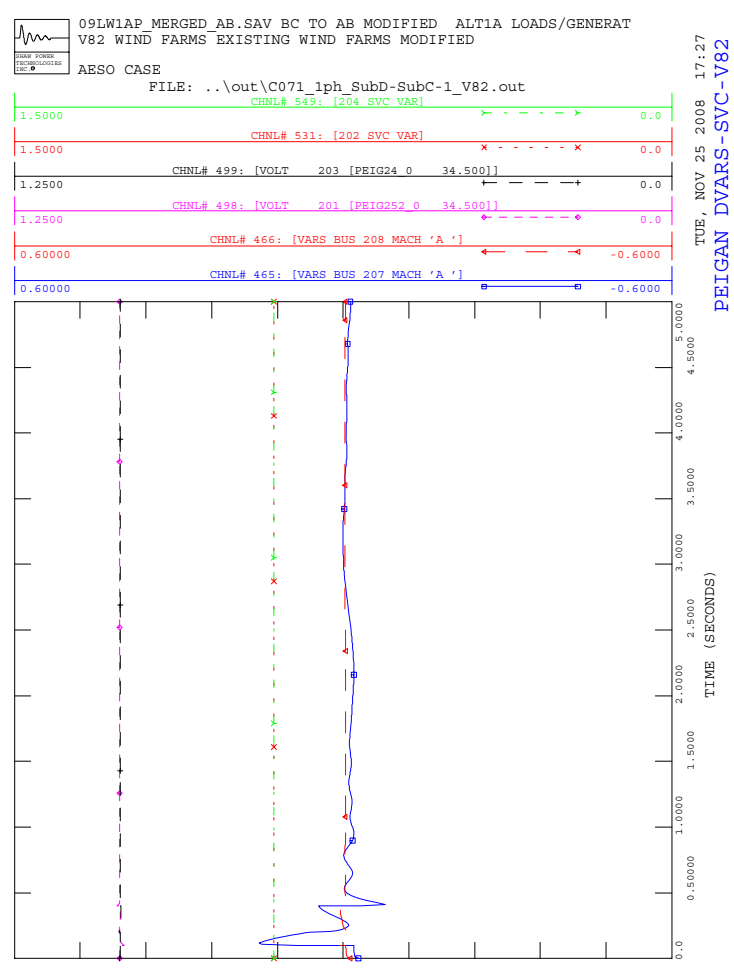
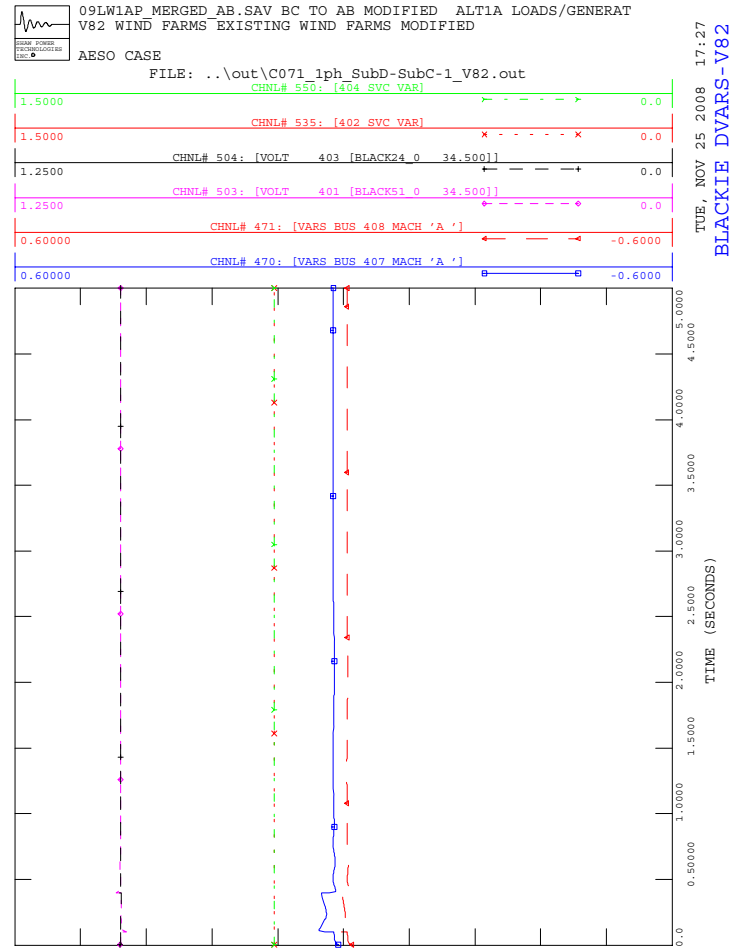
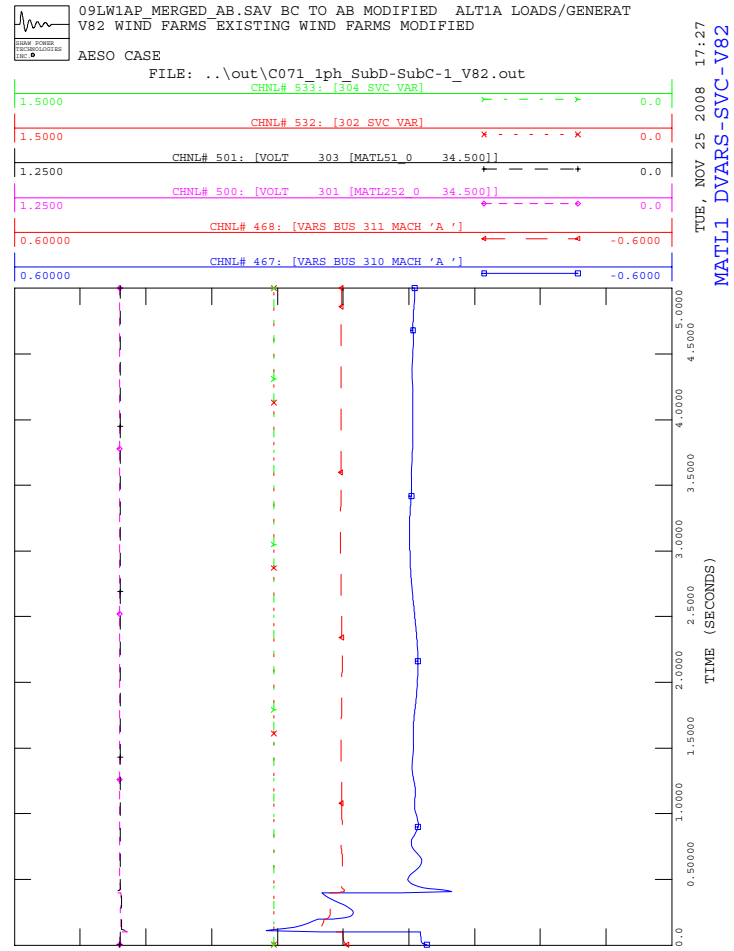


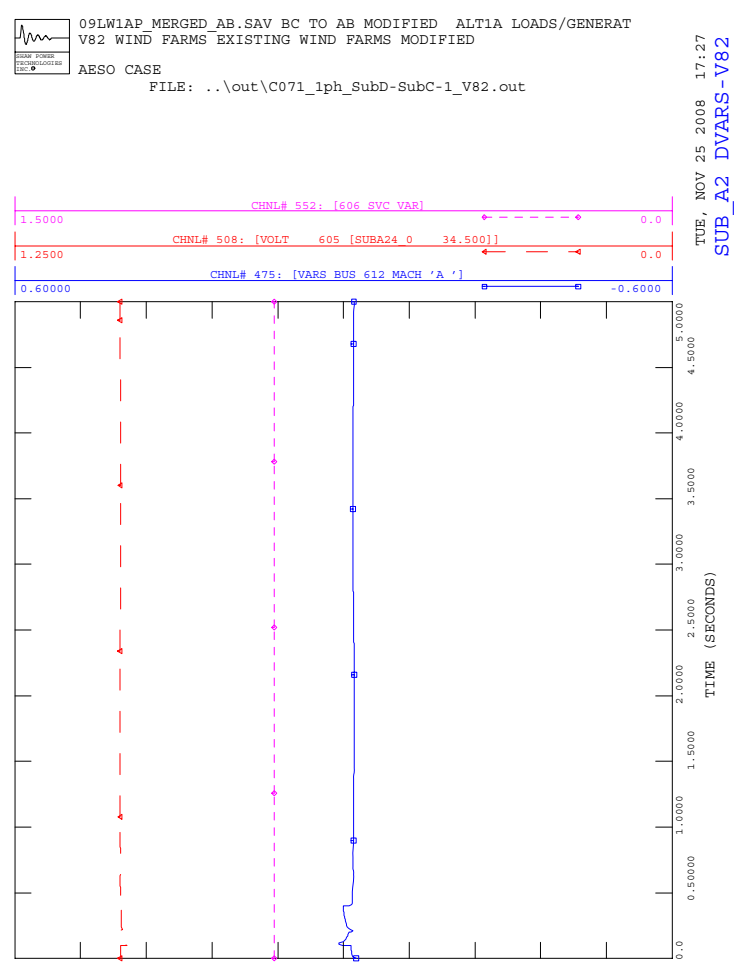
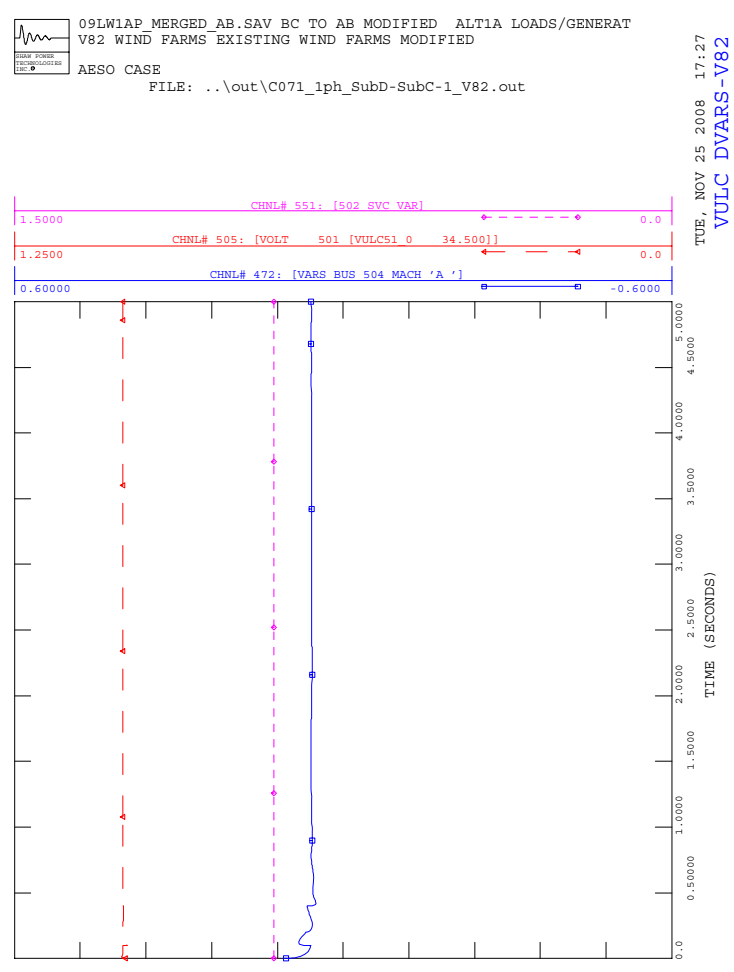
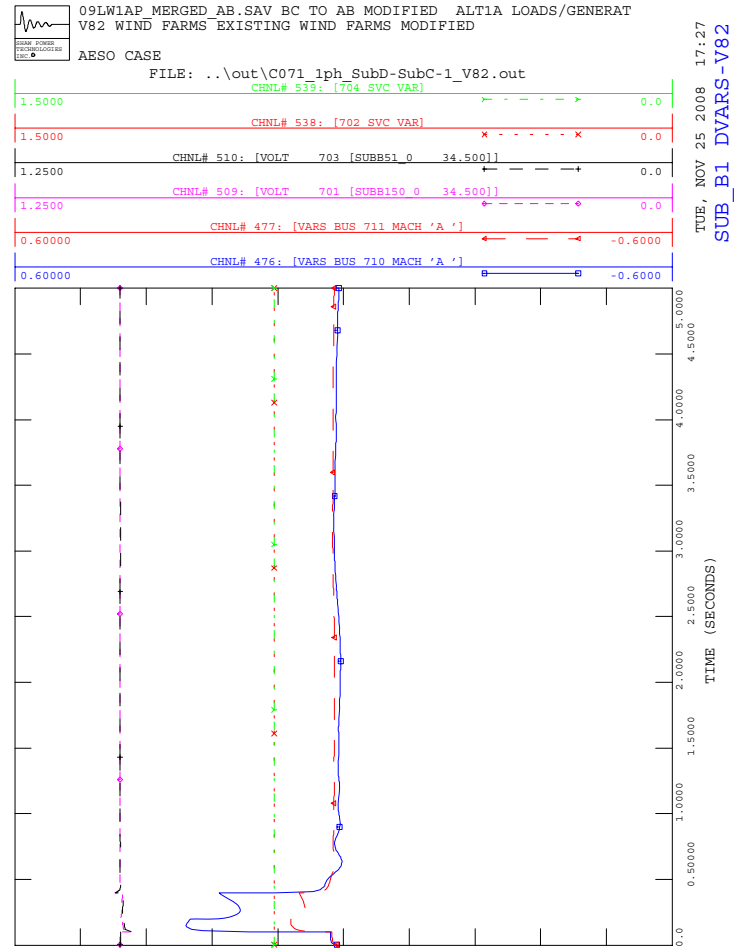
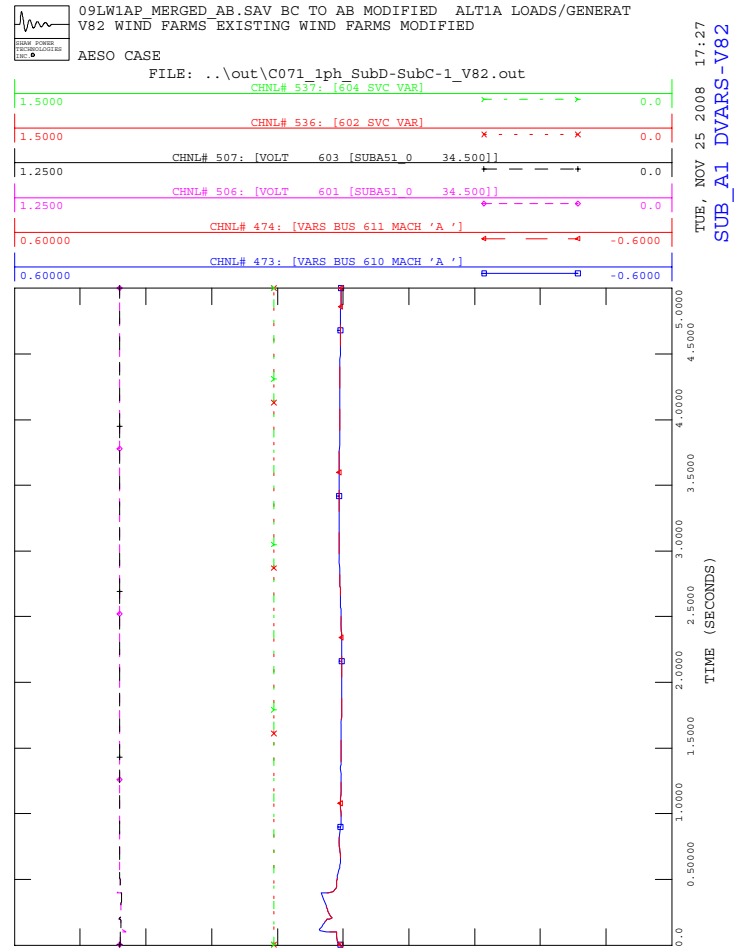
TUE, NOV 25 2008 17:27
 GOOSELK-PEIGAN_SPEED-V82

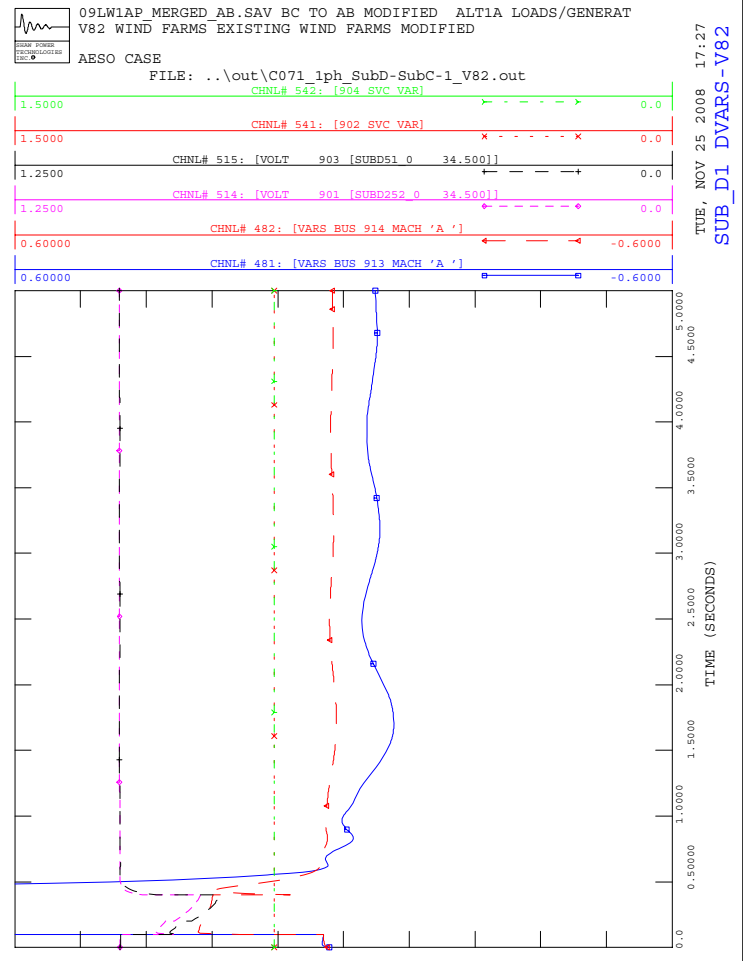
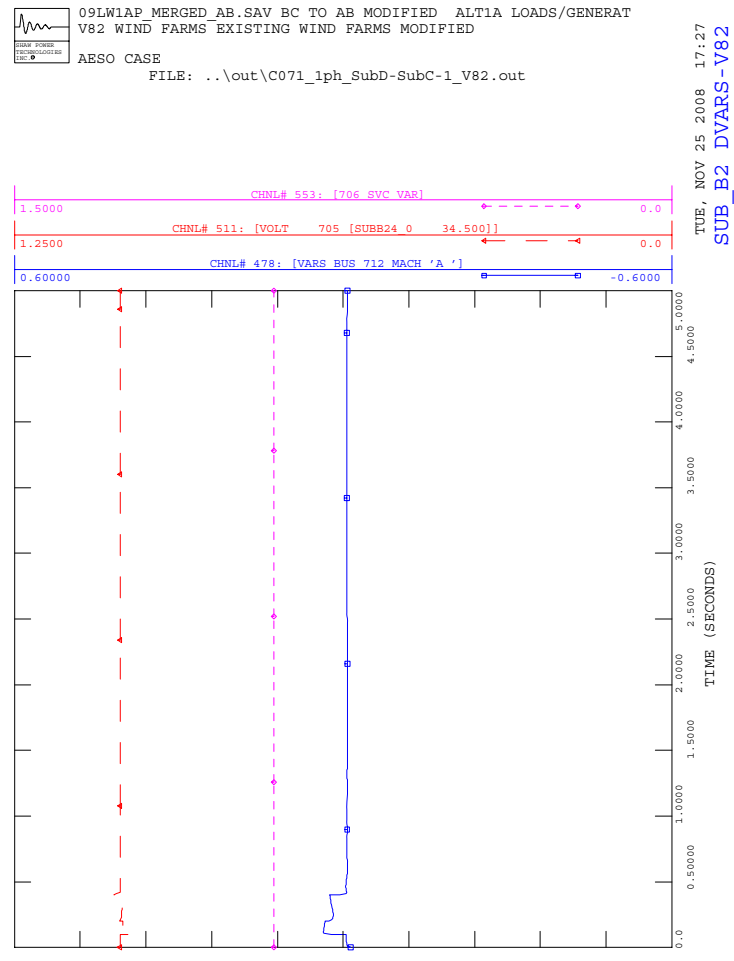
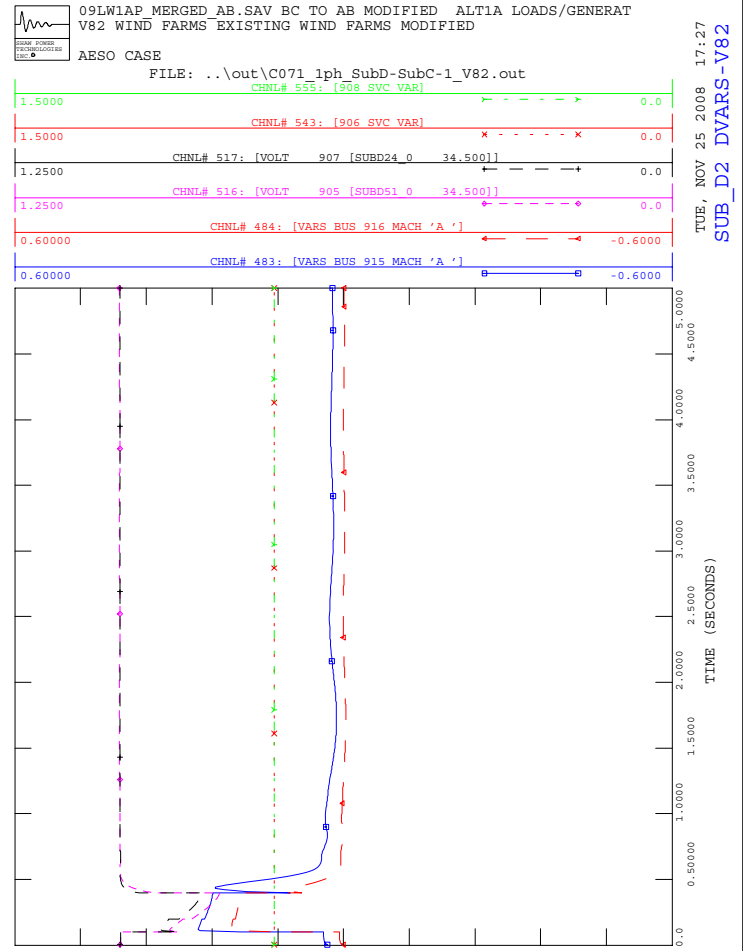
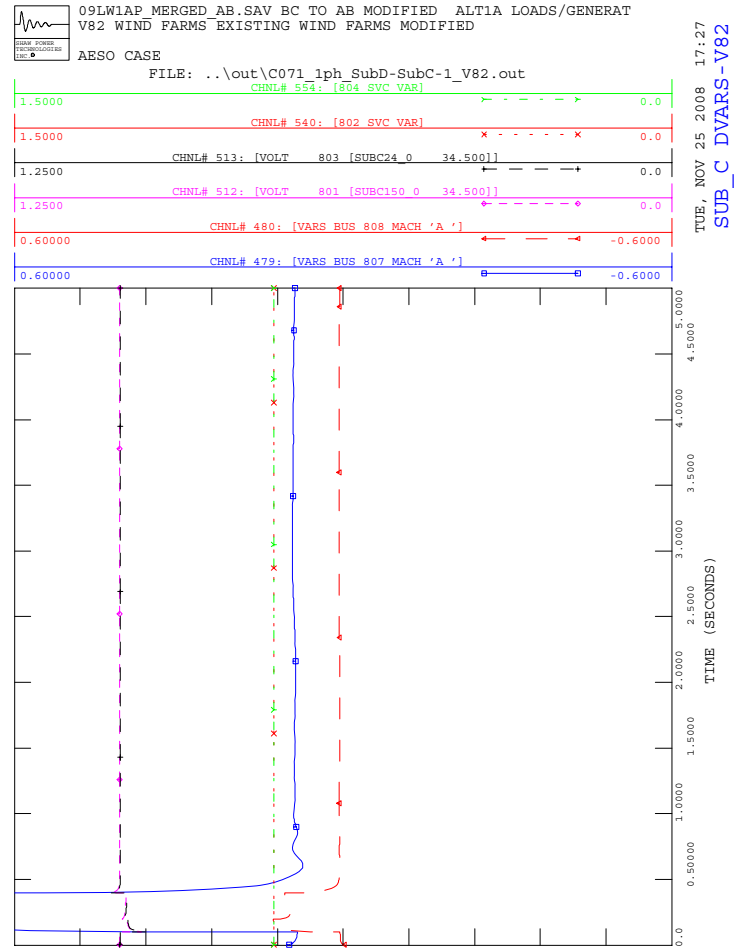


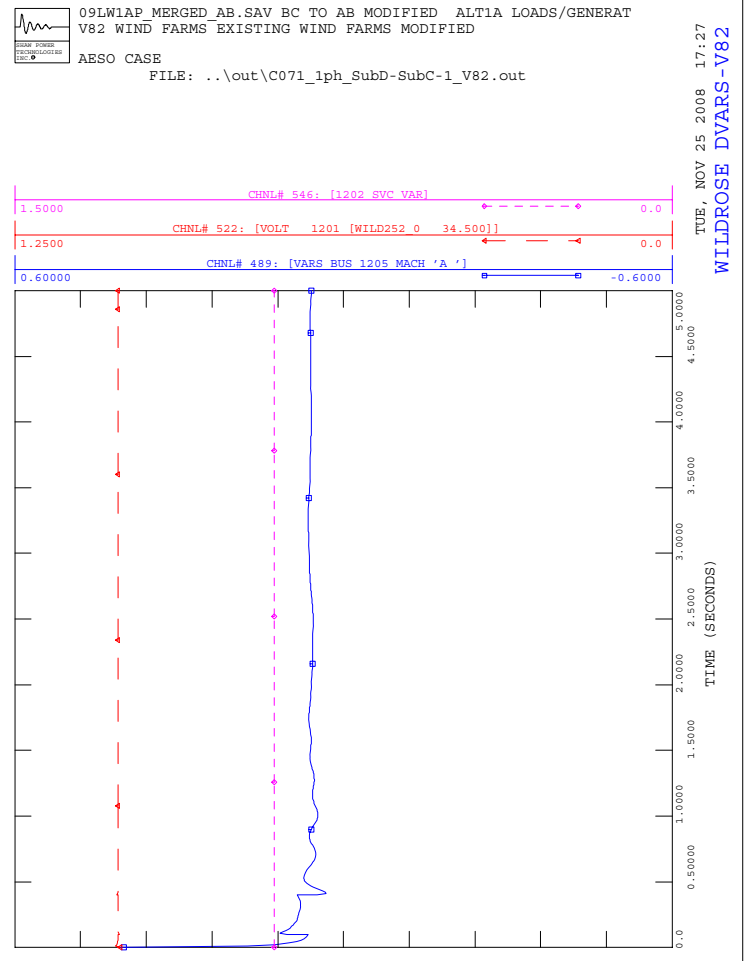
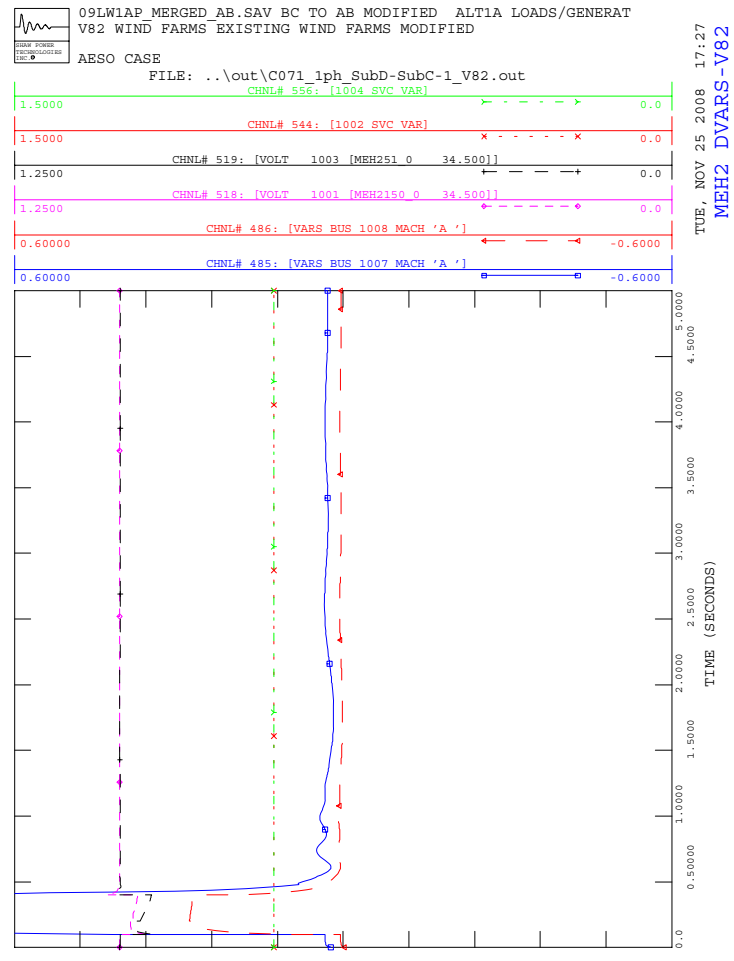
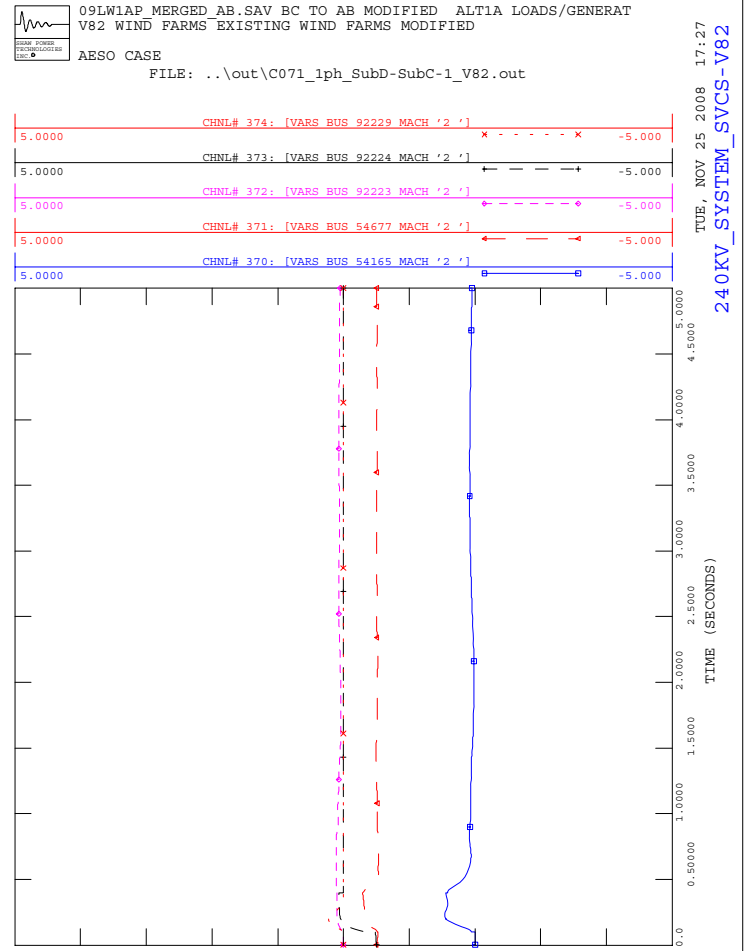
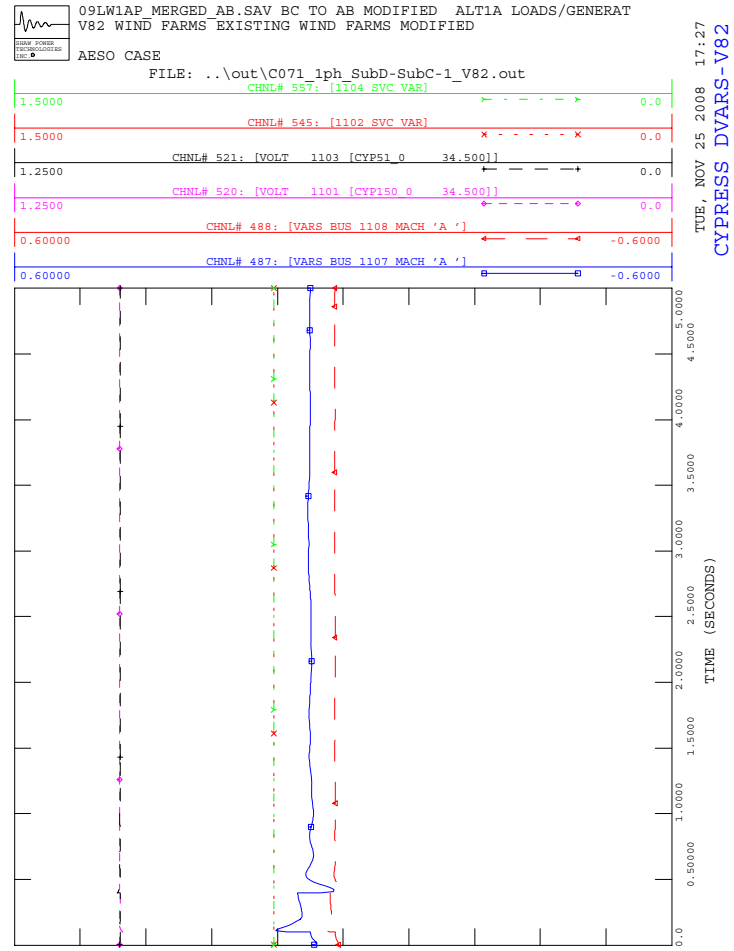








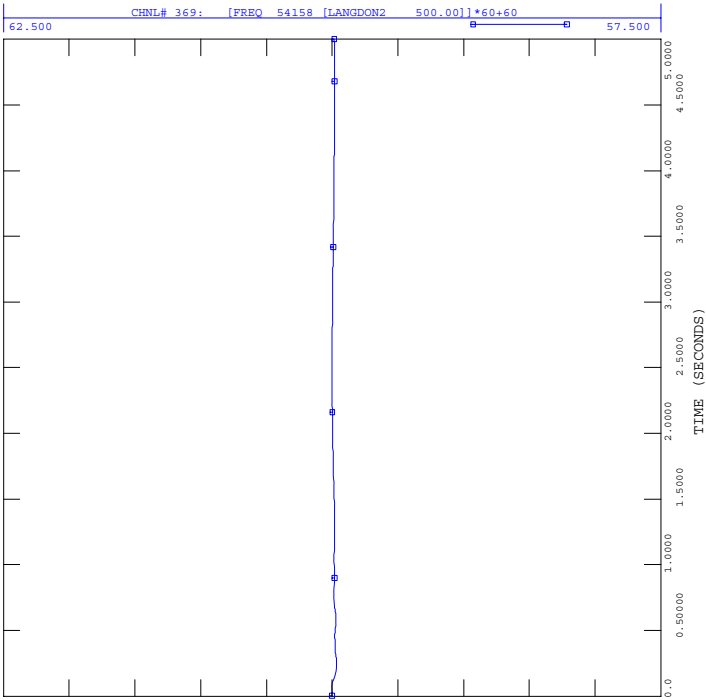






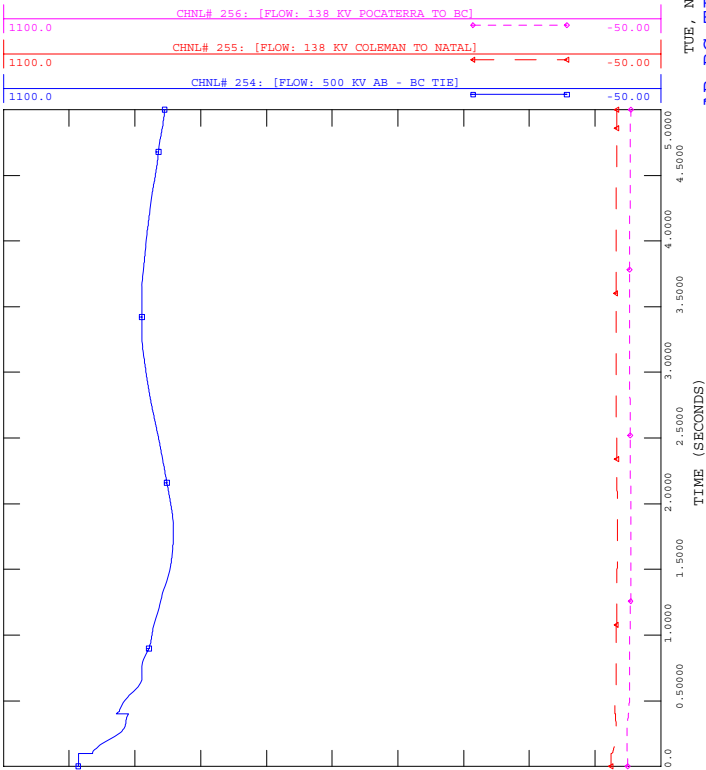
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C071_1ph_SubD-SubC-1_V82.out

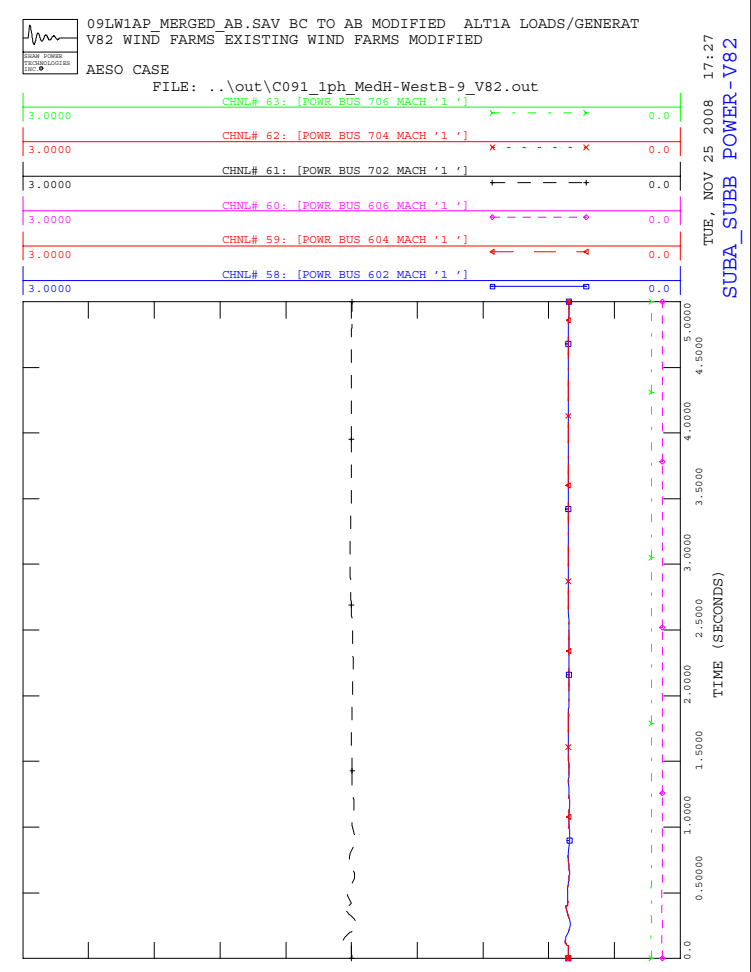
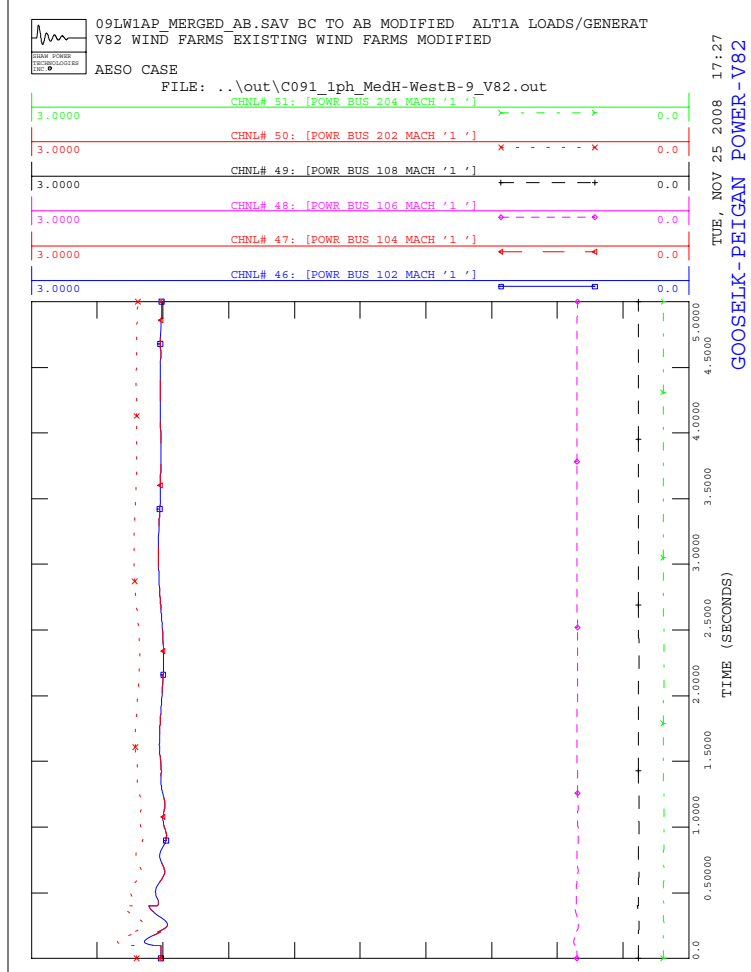
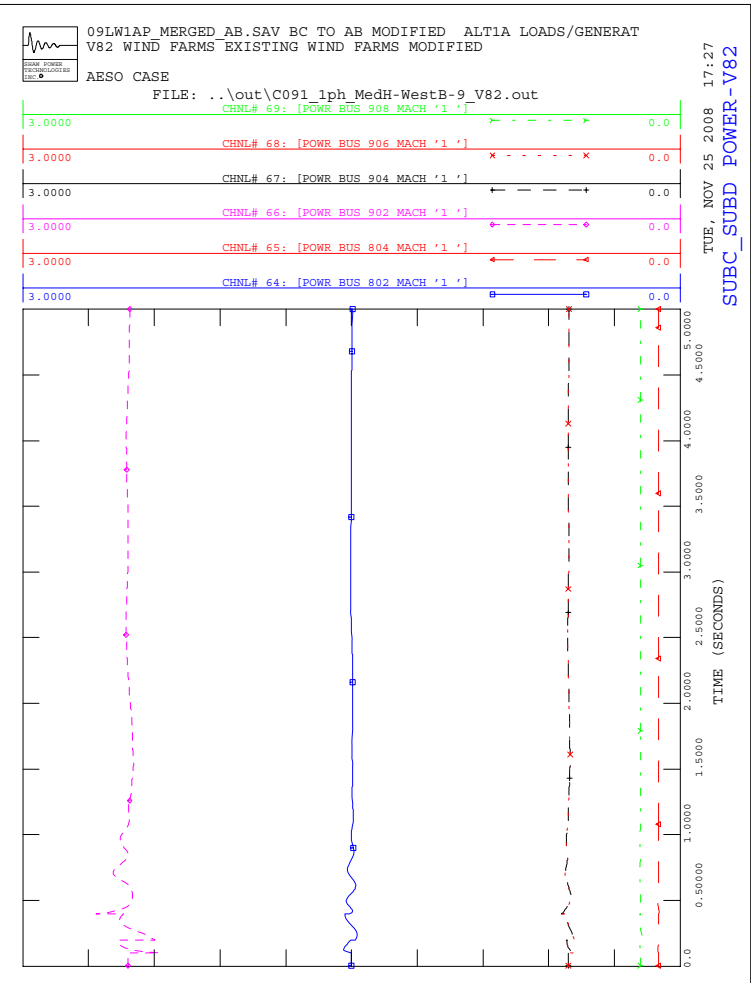
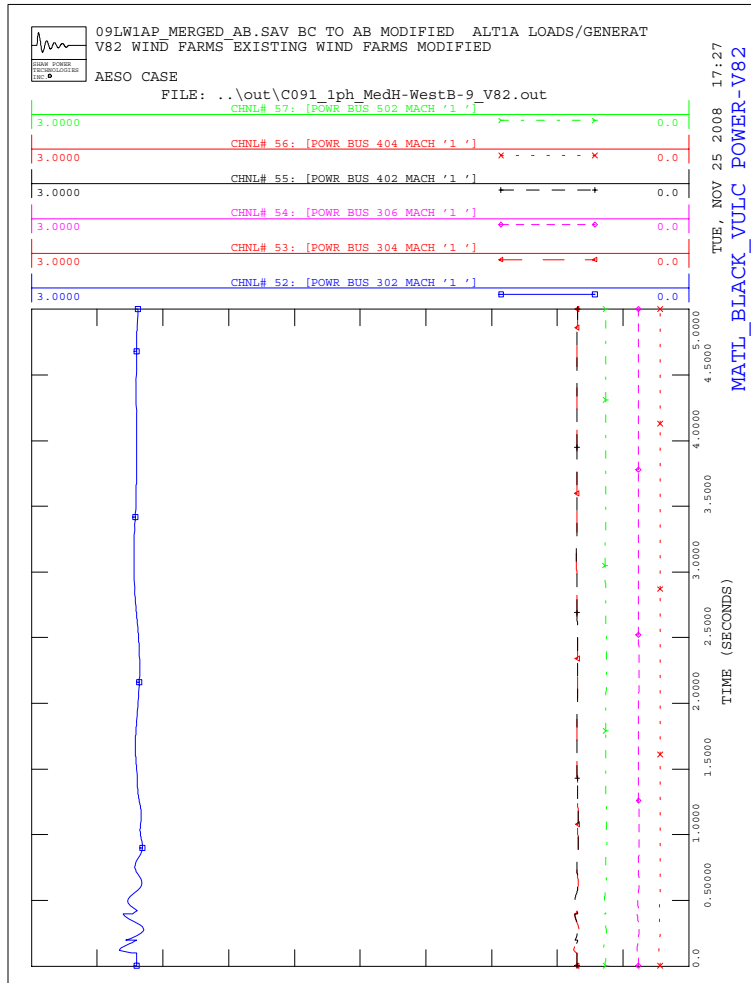
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82



09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C071_1ph_SubD-SubC-1_V82.out

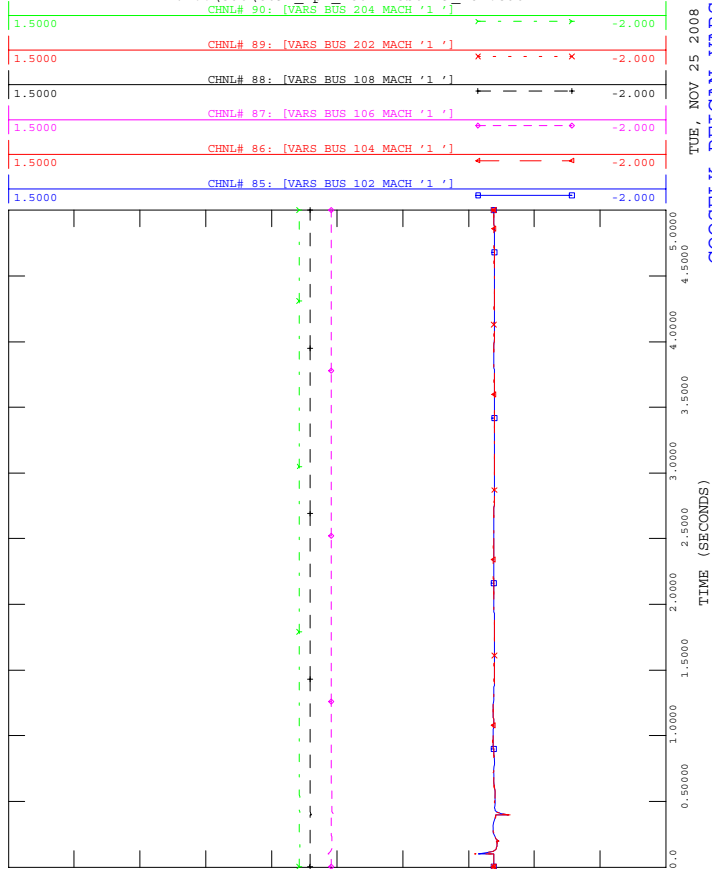
TUE, NOV 25 2008 17:27
AB_BC_TIE_FLOWS-V82





09LWIAP MERGED AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

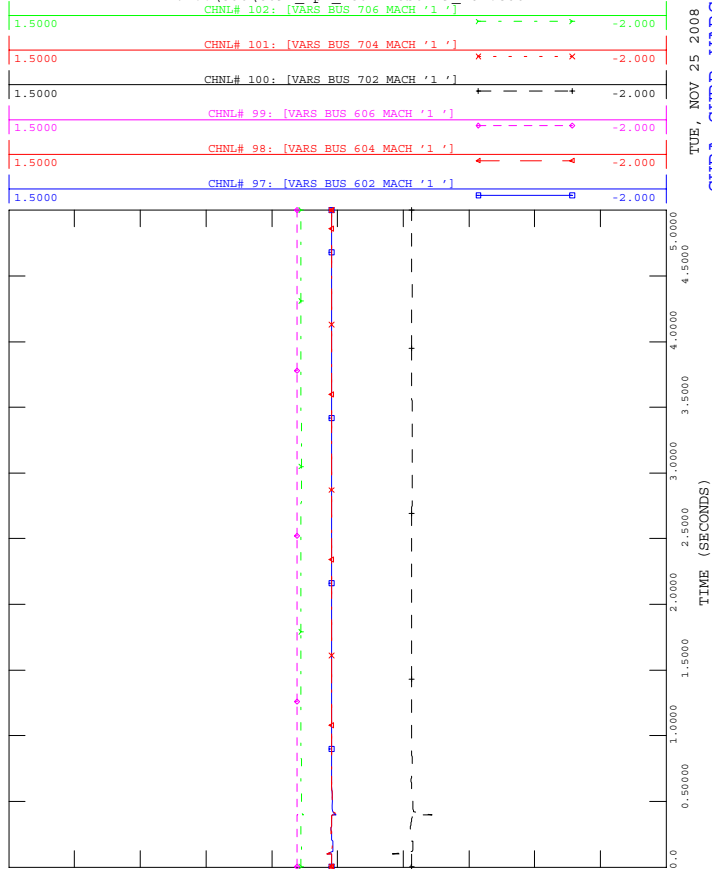
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TUE, NOV 25 2008 17:27
GOOSELK-PEIGAN VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

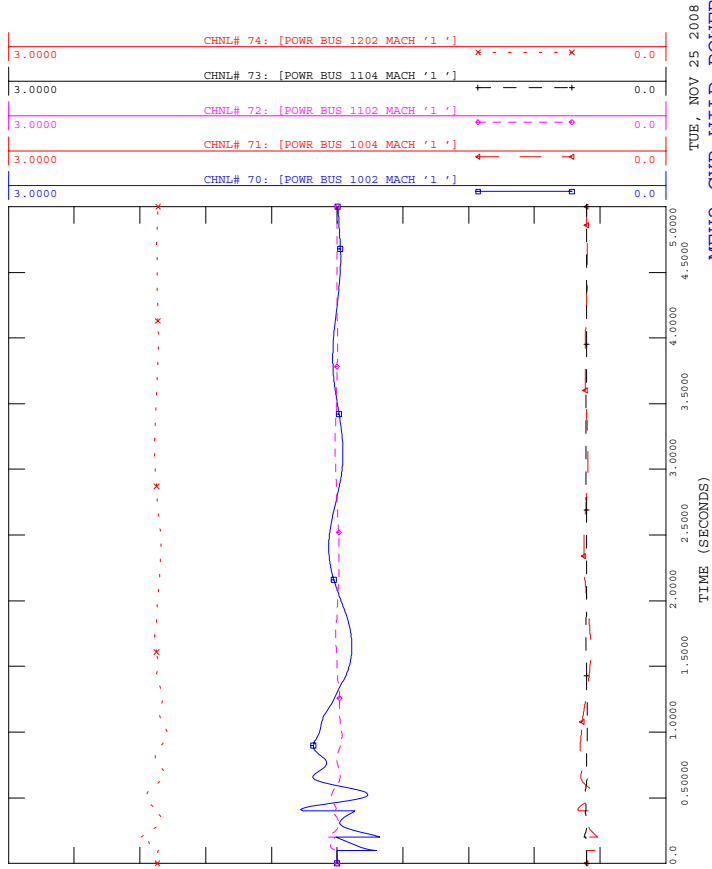
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TUE, NOV 25 2008 17:27
SUBA_SUBB VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

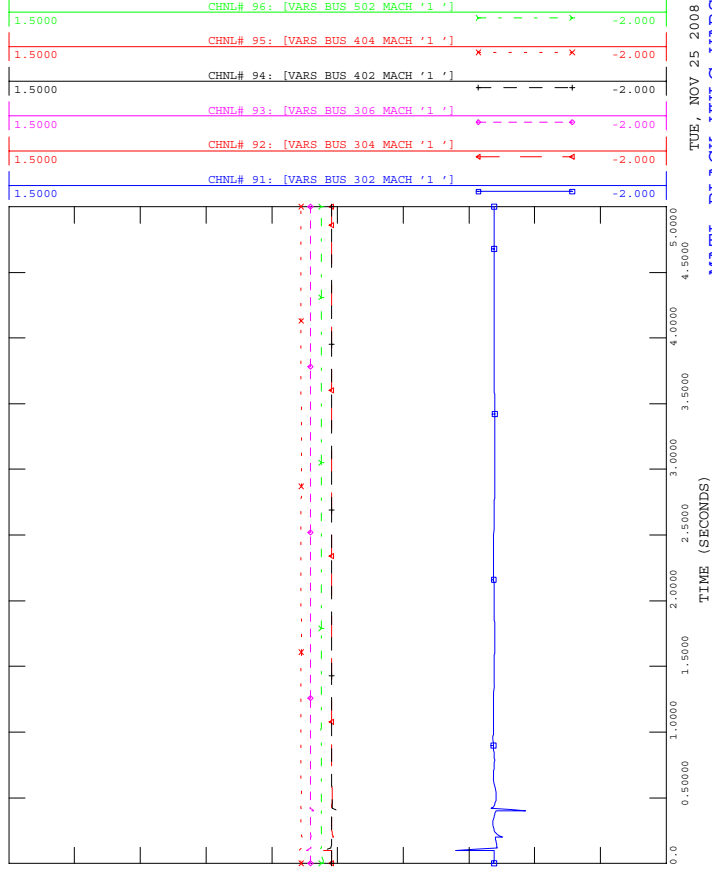
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TUE, NOV 25 2008 17:27
MEH2_CYP_WILD POWER-V82

09LWIAP MERGED AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

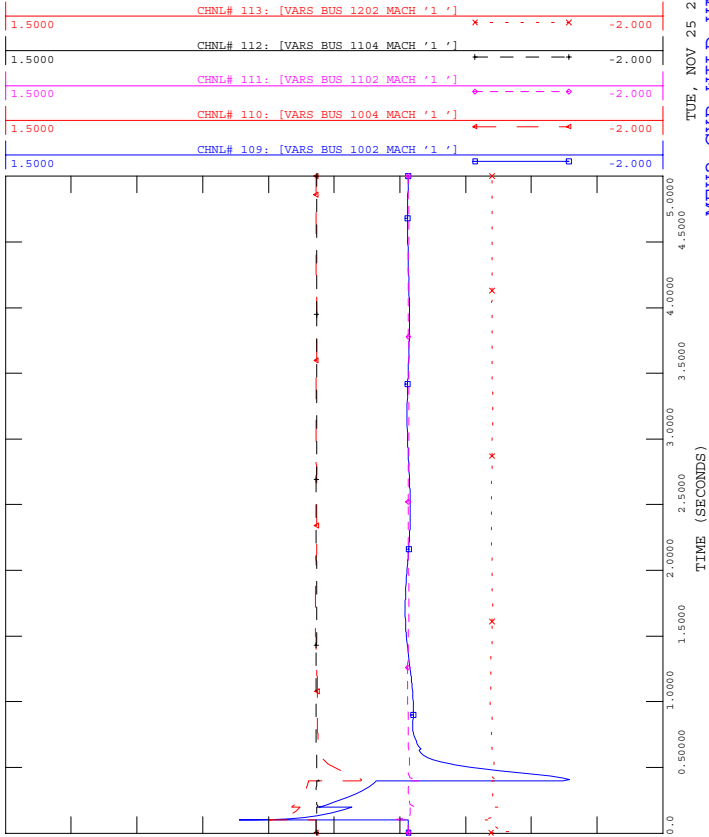
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TUE, NOV 25 2008 17:27
MATL_BLACK_VULC VARS-V82

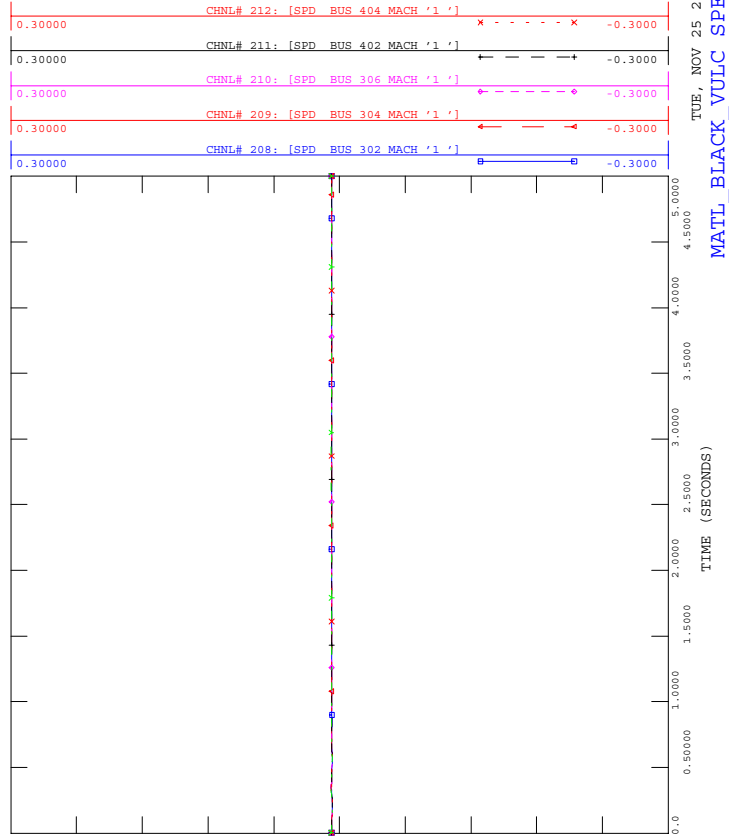
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\C091_1ph_MedH-WestB-9_V82.out



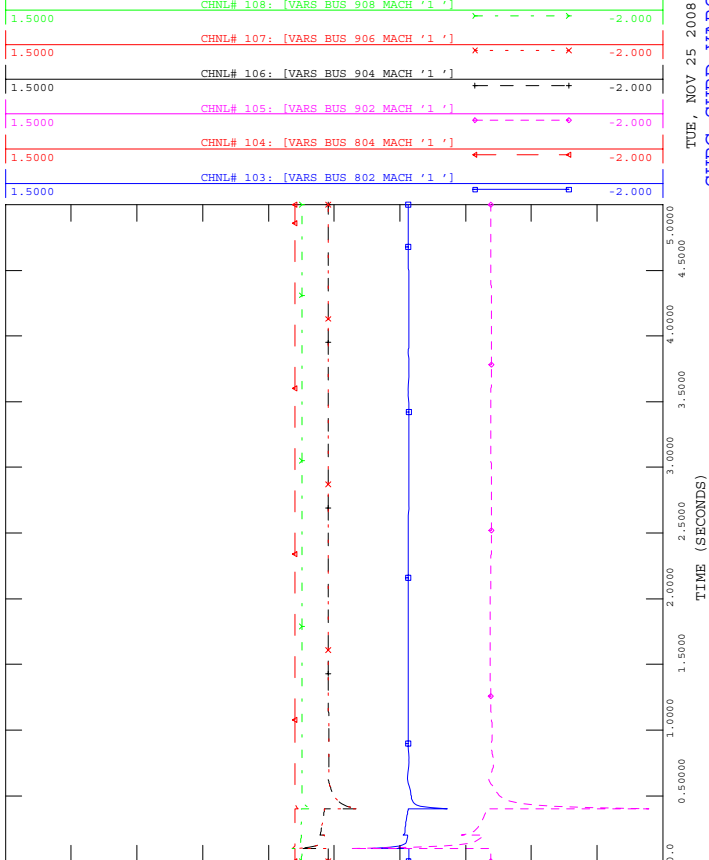
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

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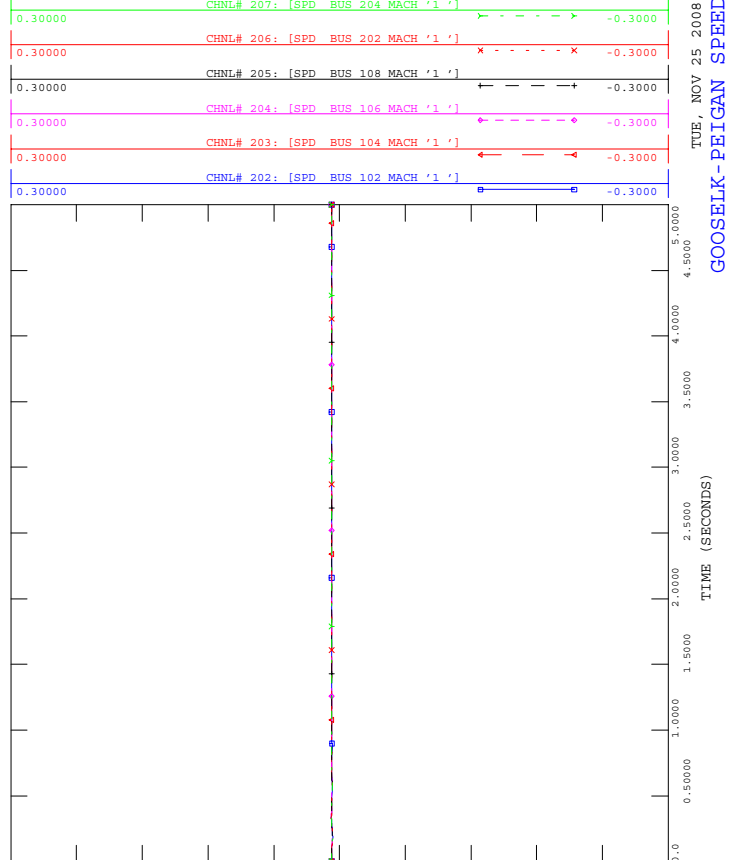
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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

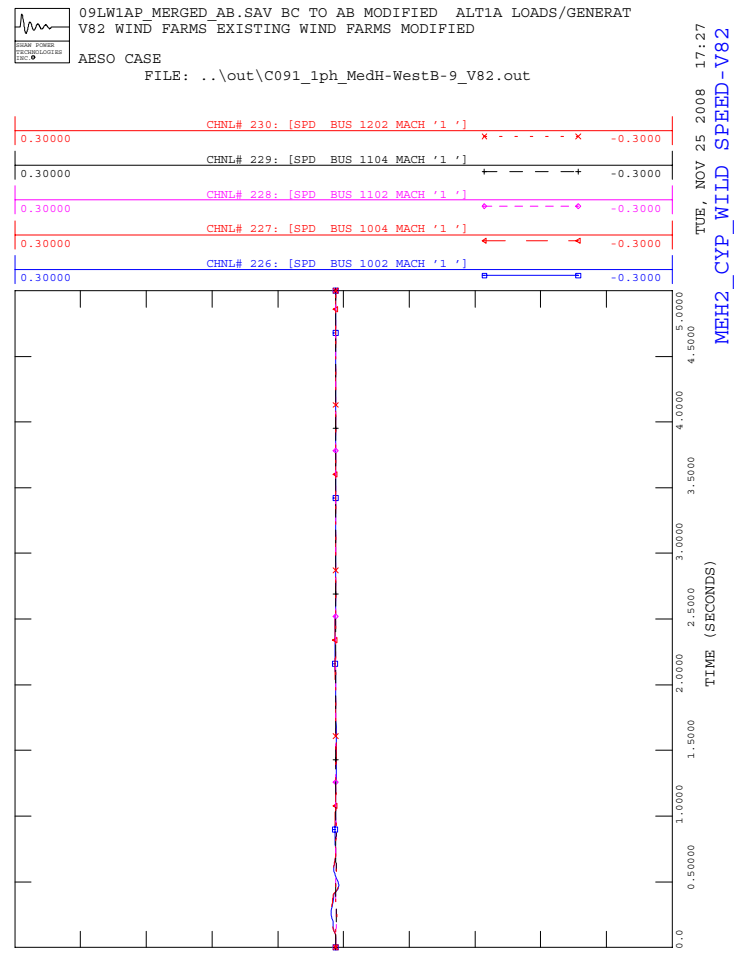
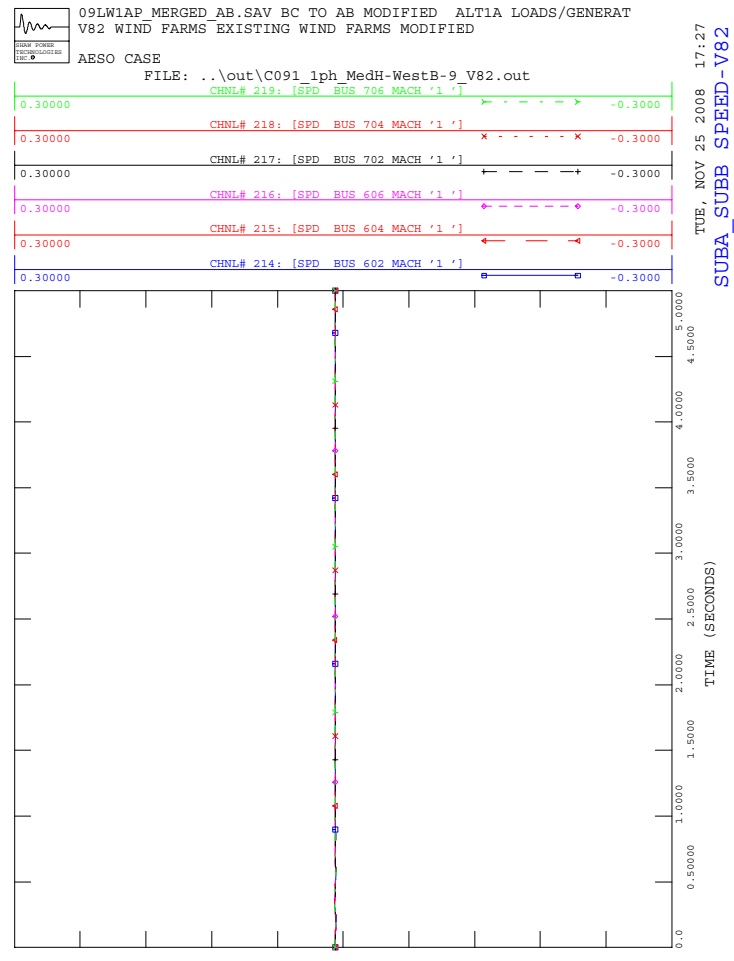
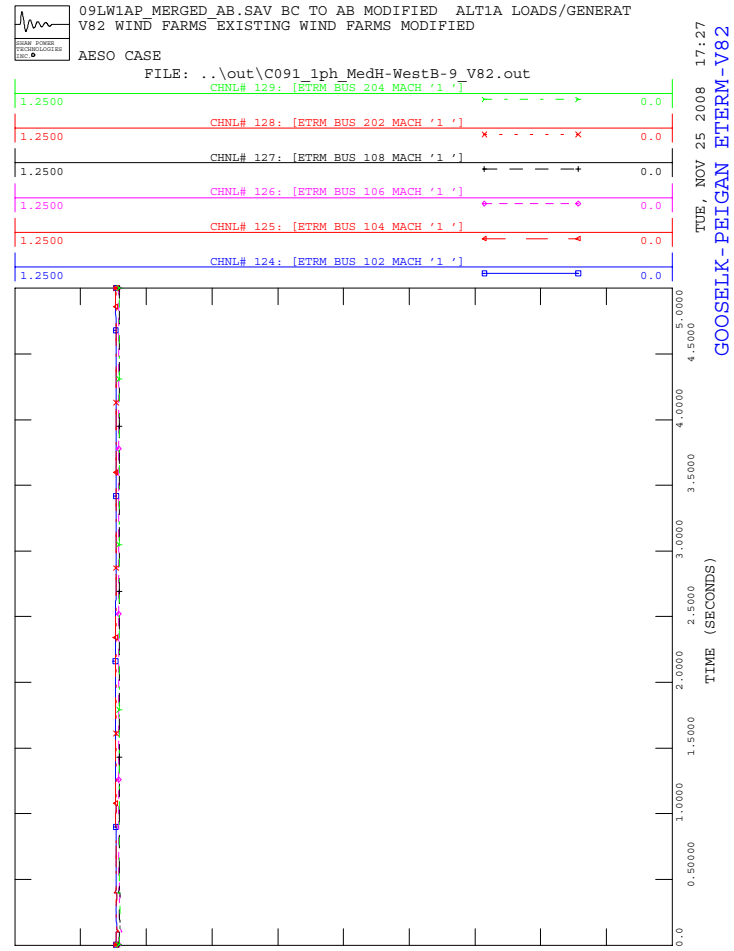
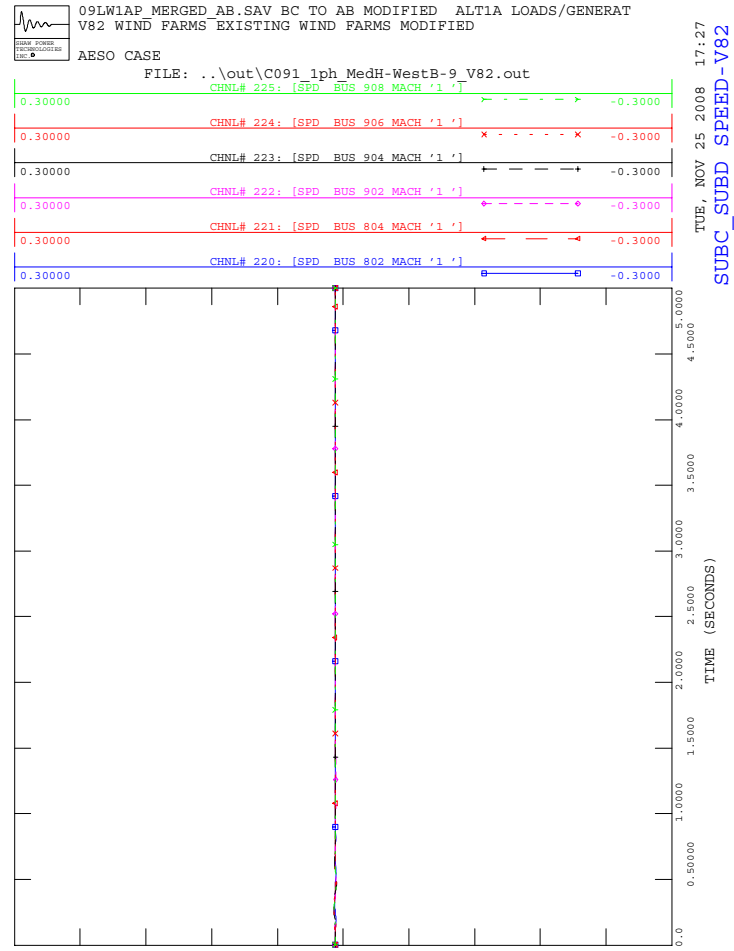
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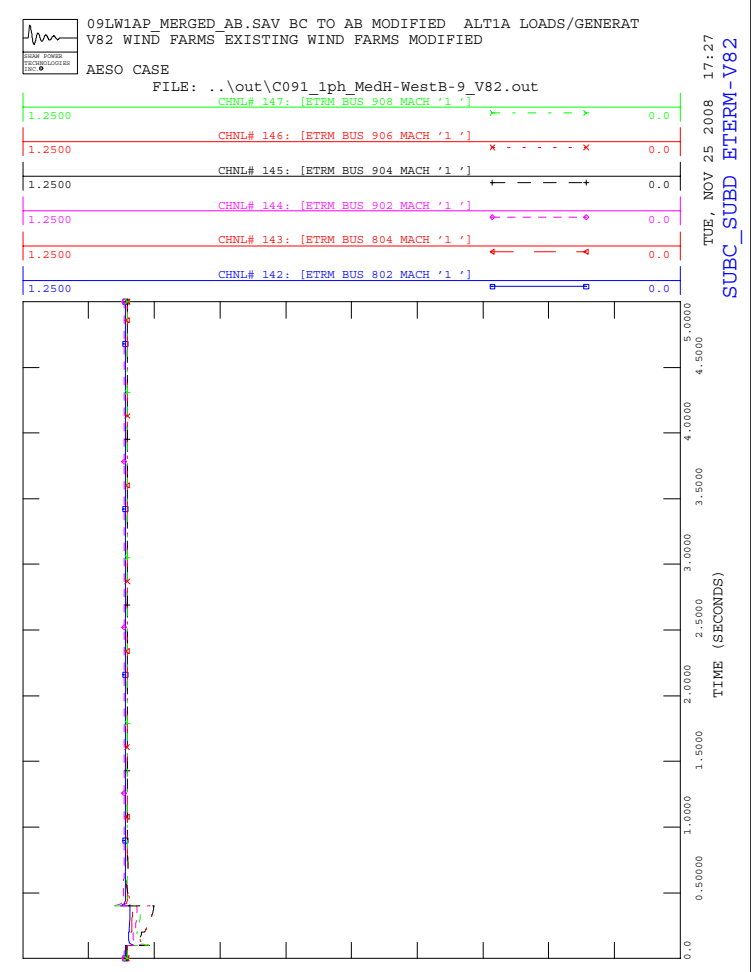
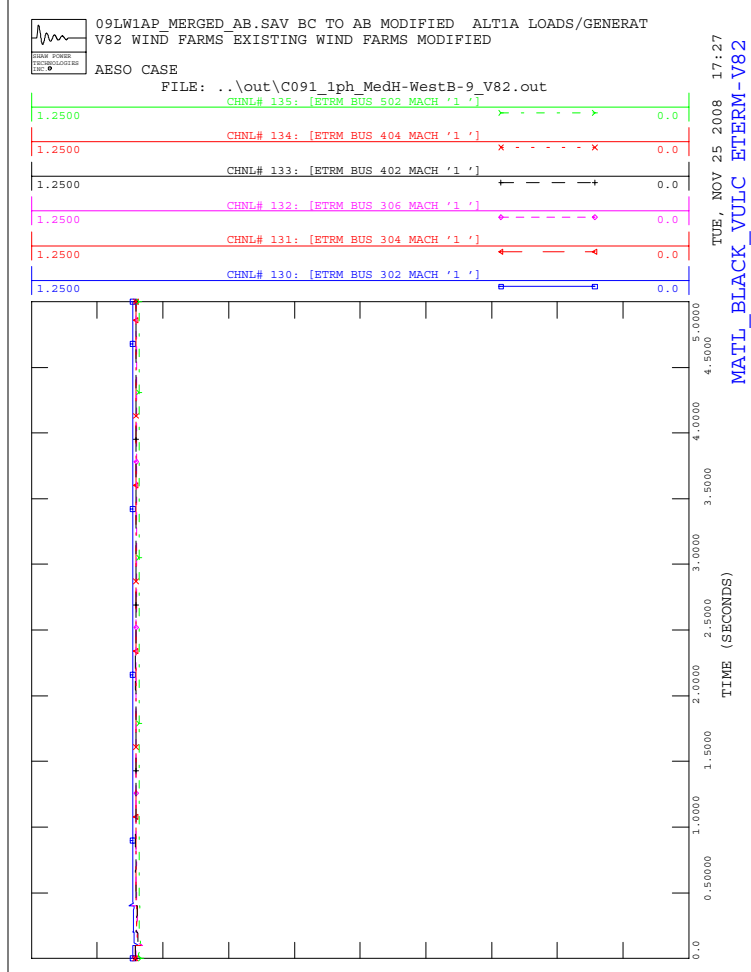
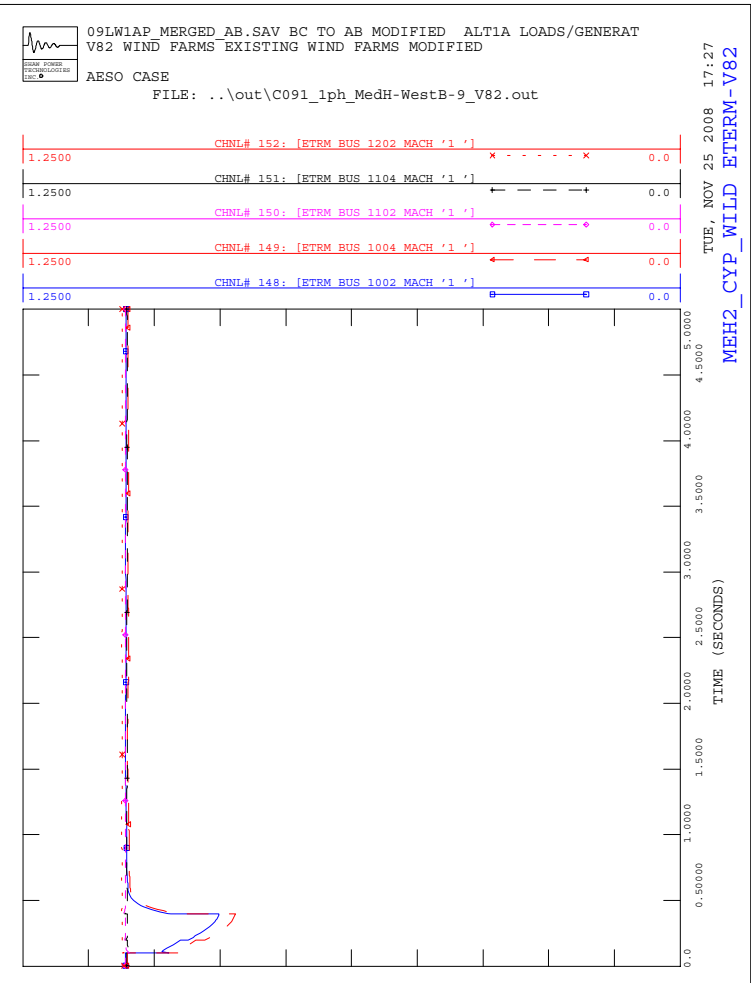
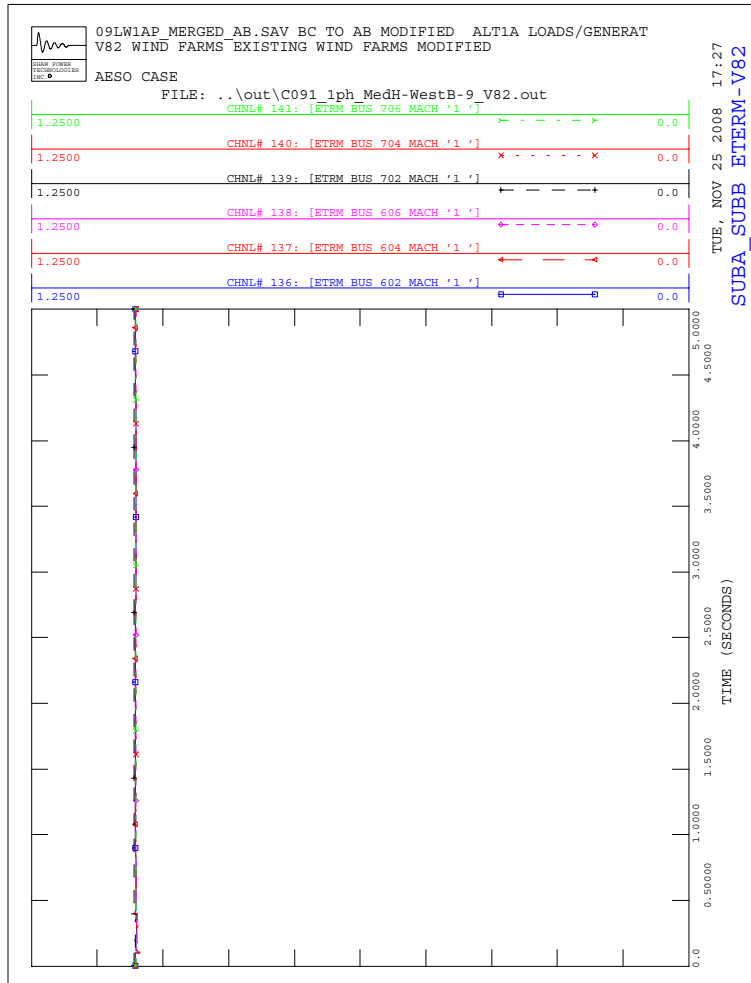


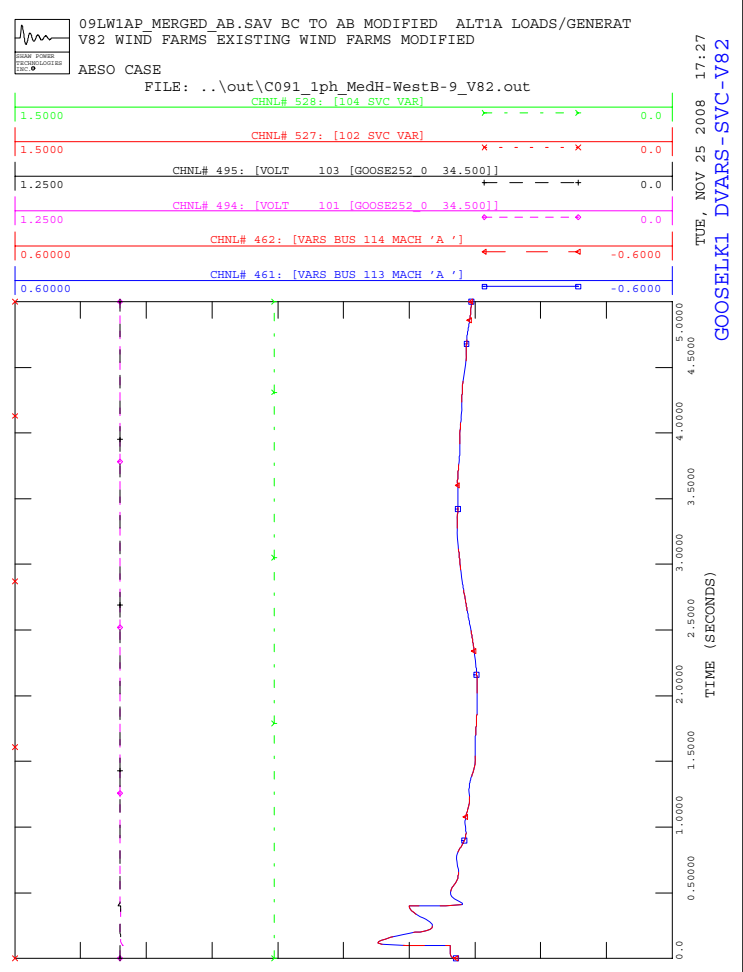
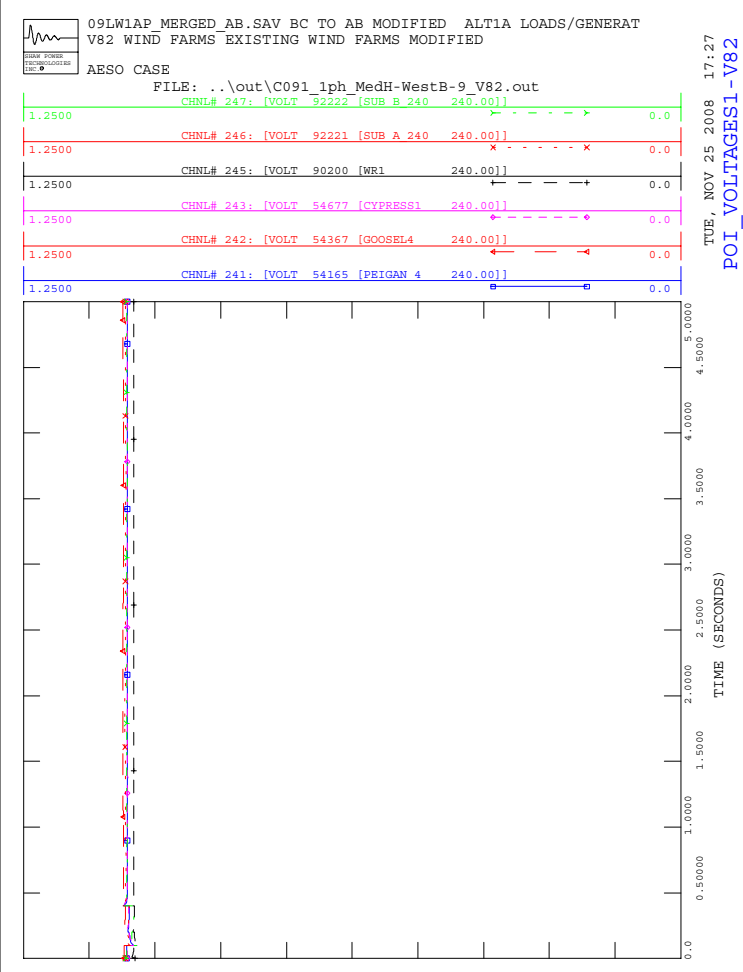
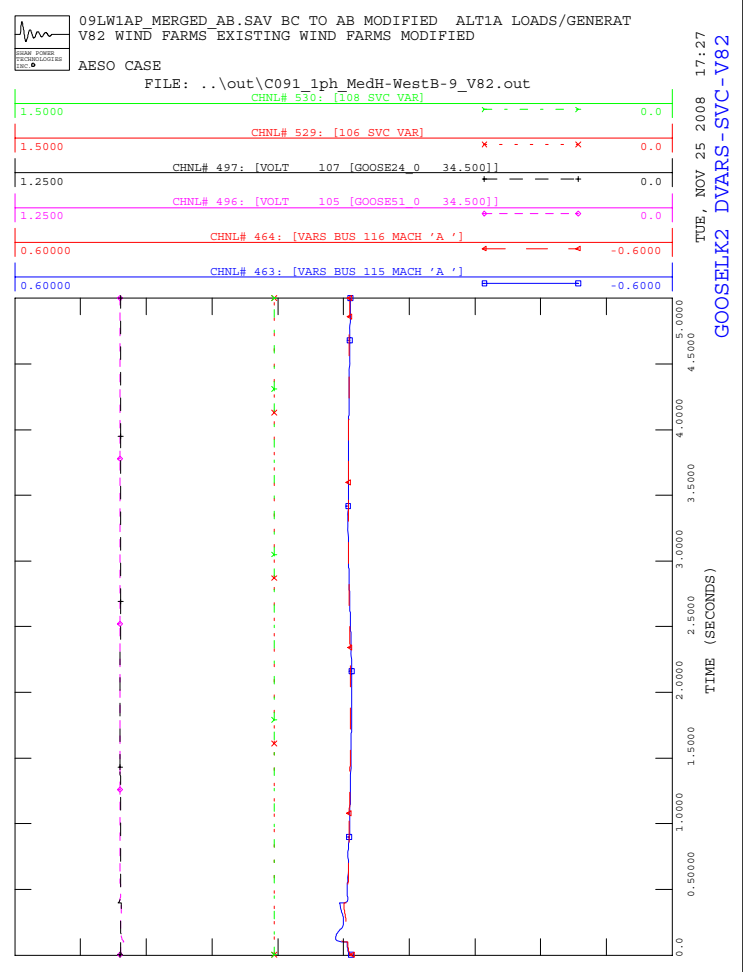
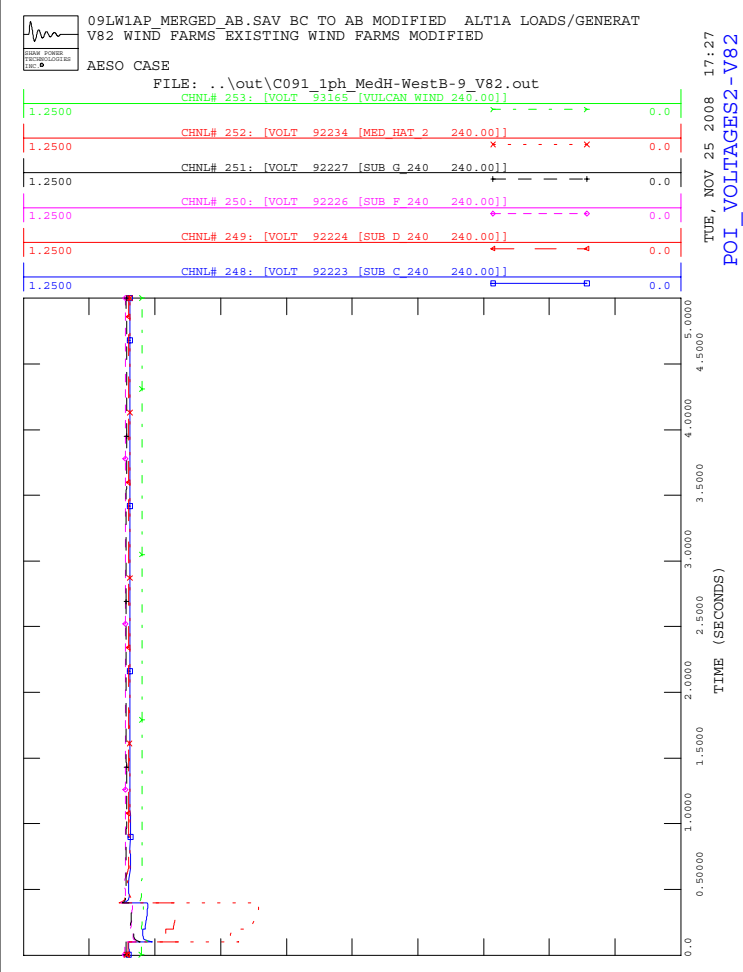
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
AESO CASE

FILE: ..\out\C091_1ph_MedH-WestB-9_V82.out



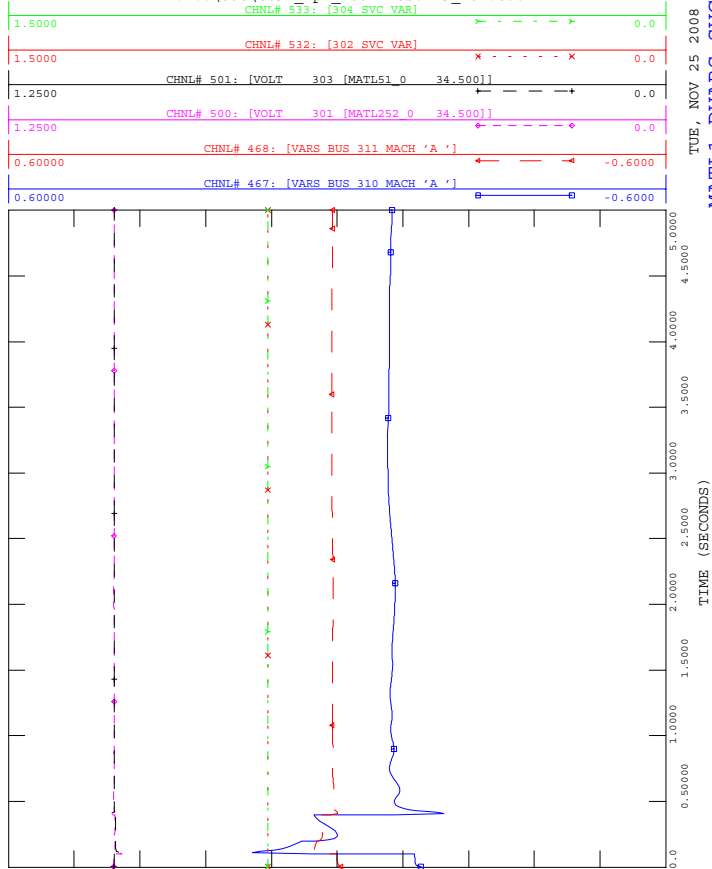






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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

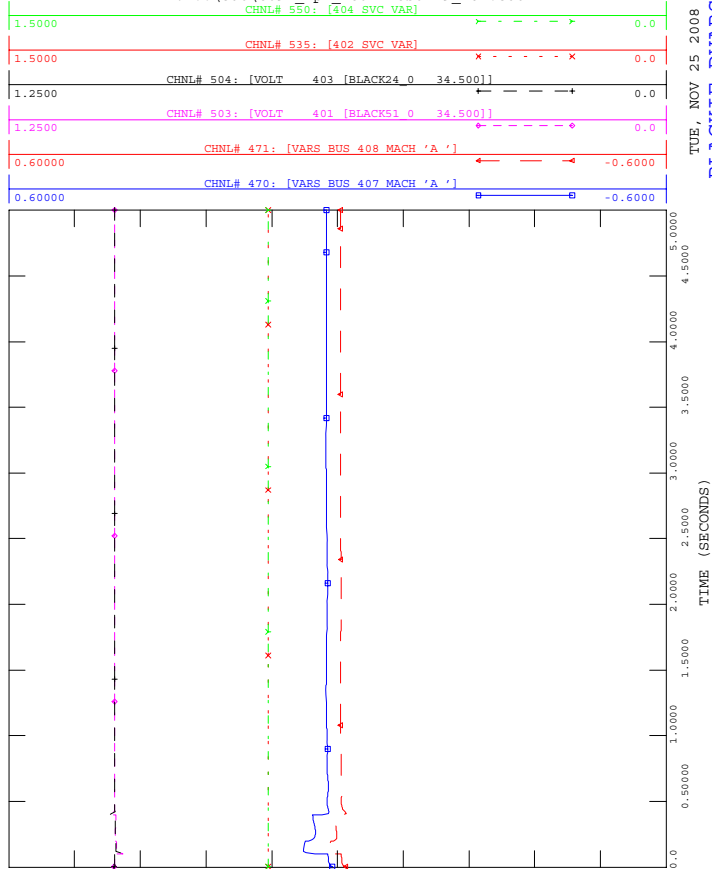
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TUE, NOV 25 2008 17:27
 MATL1 DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

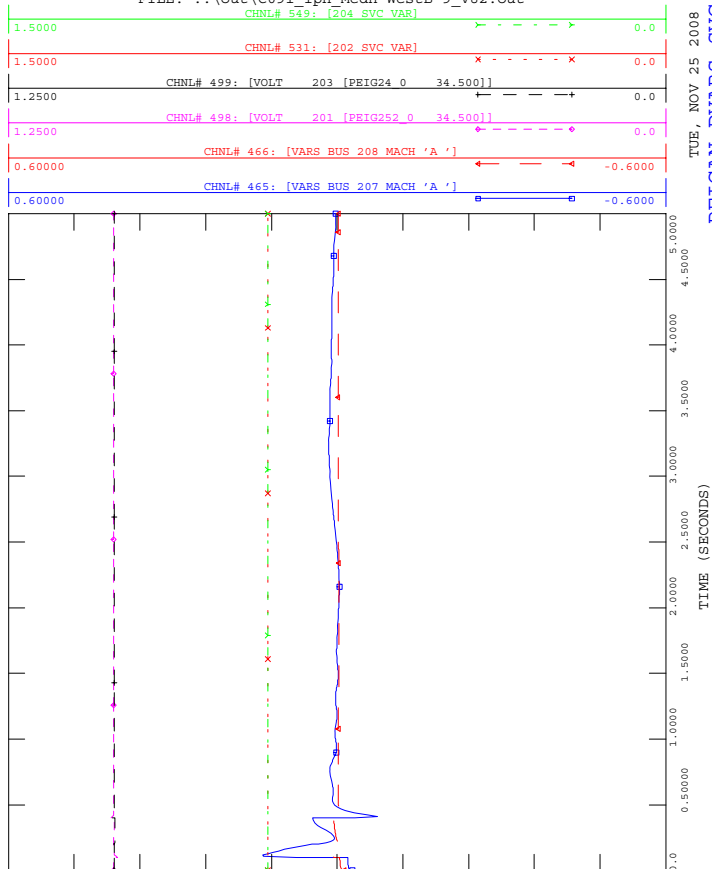
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TUE, NOV 25 2008 17:27
 BLACKIE DVARS-SVC-V82

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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

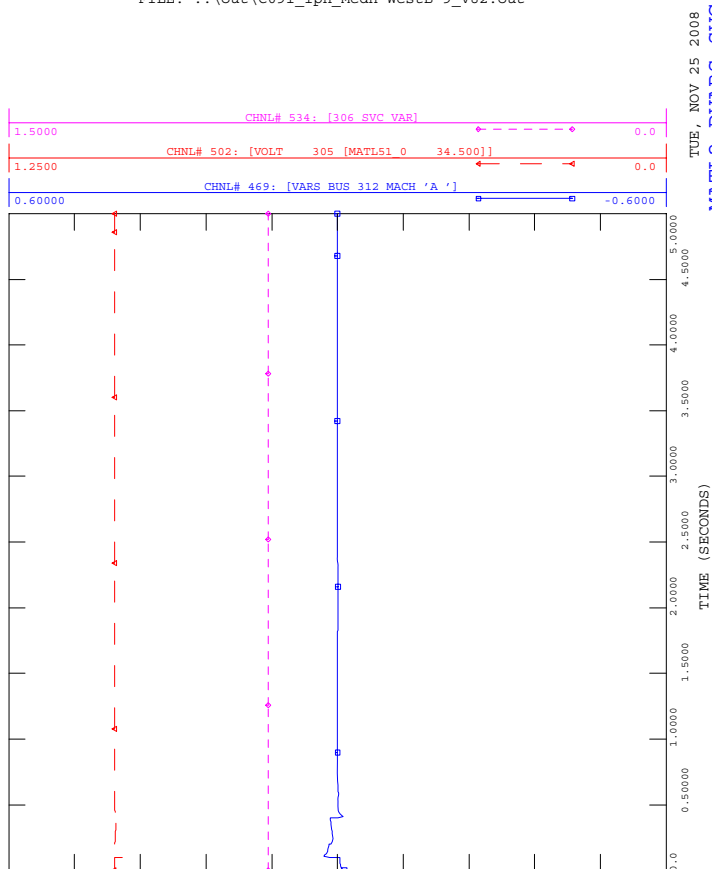
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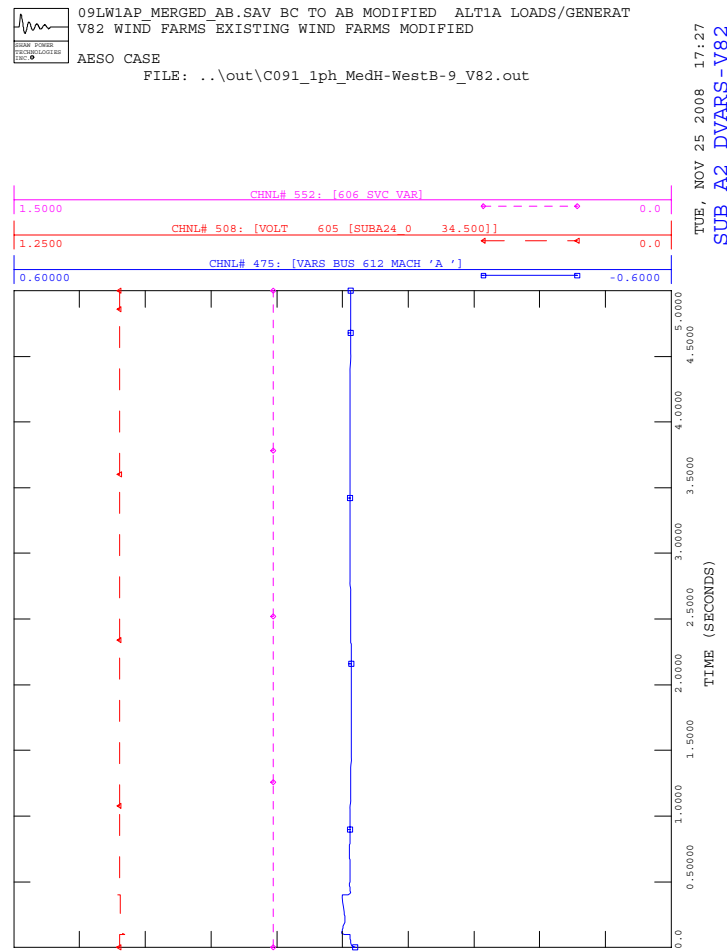
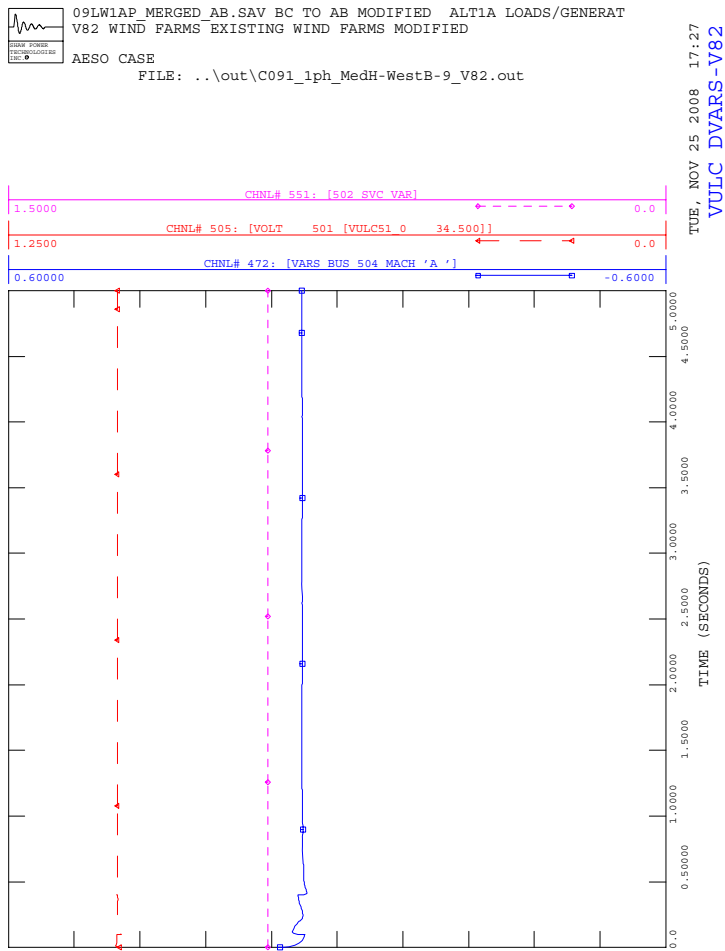
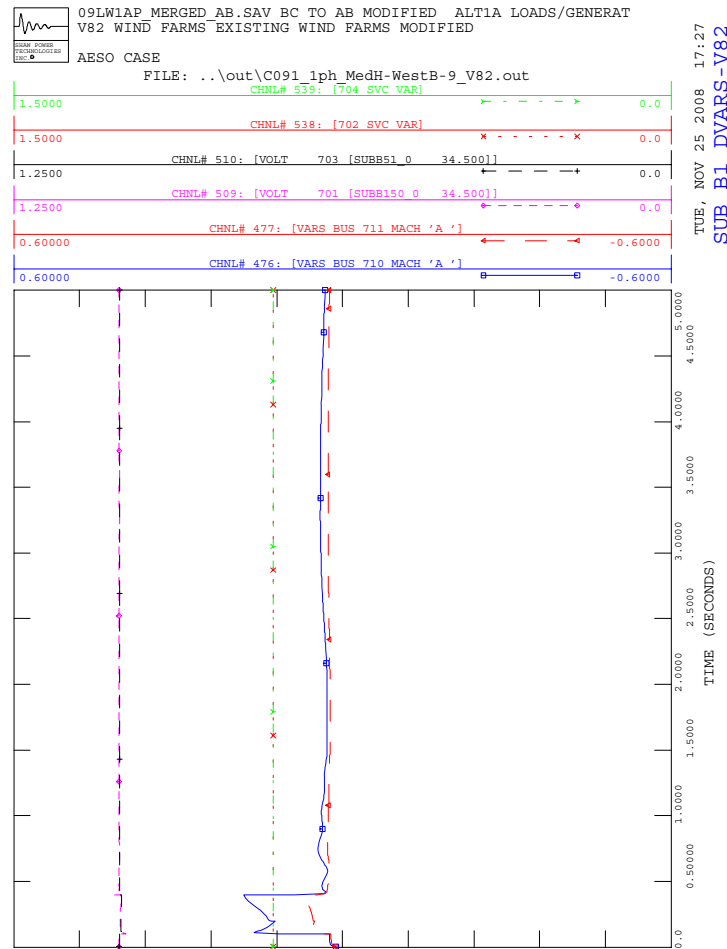
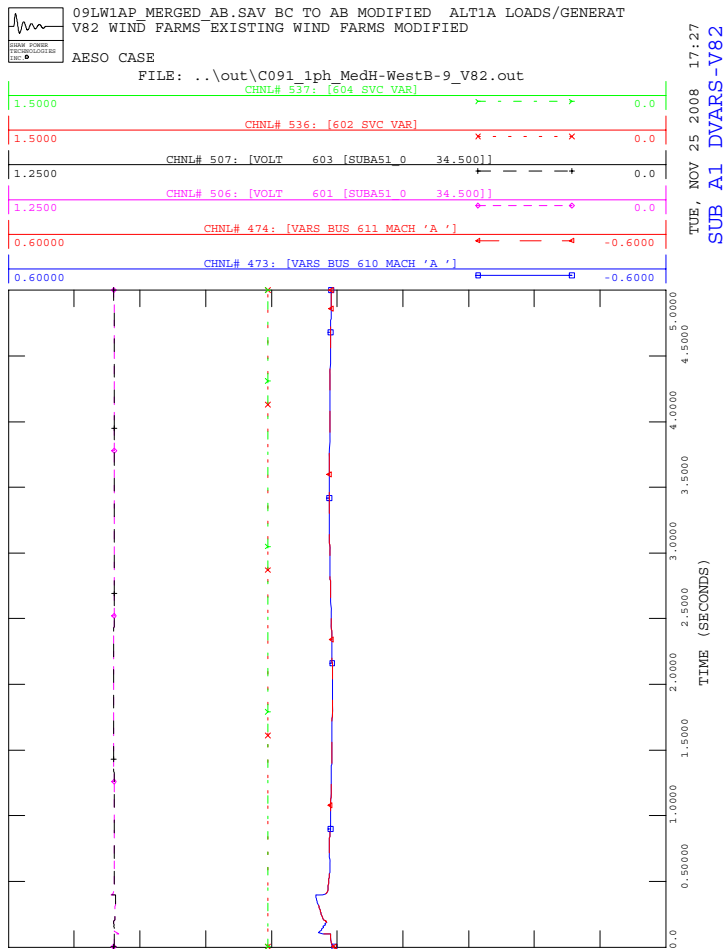
TUE, NOV 25 2008 17:27
 PEIGAN DVARS-SVC-V82

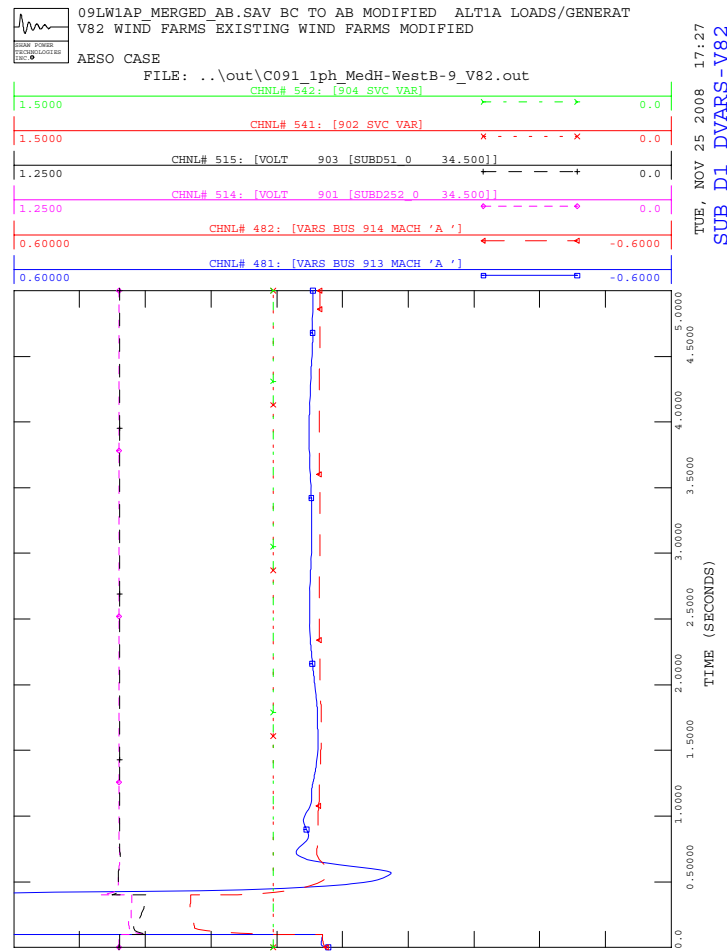
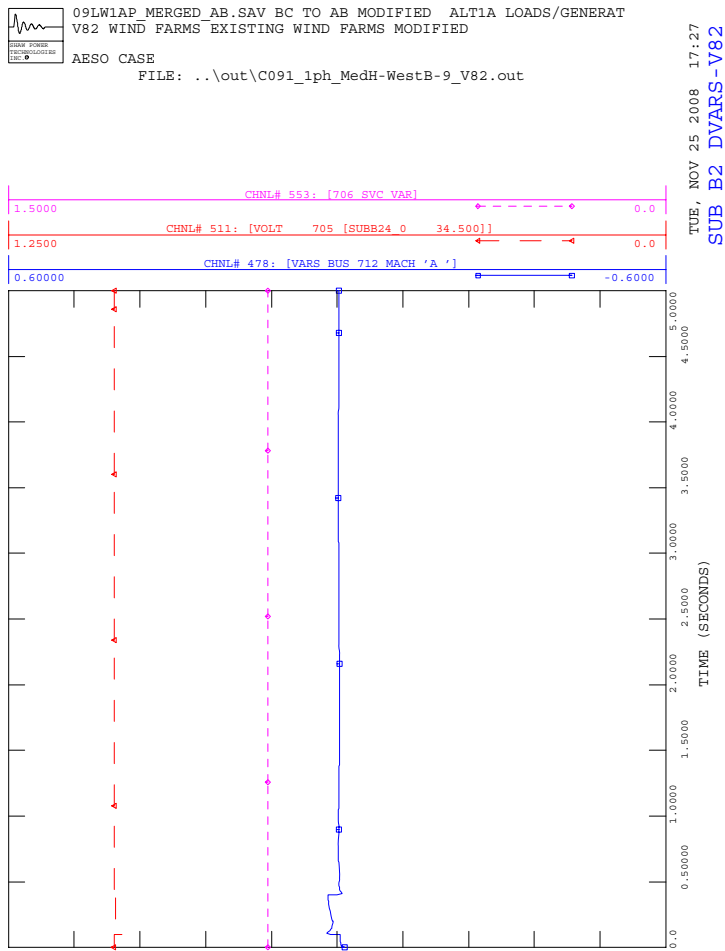
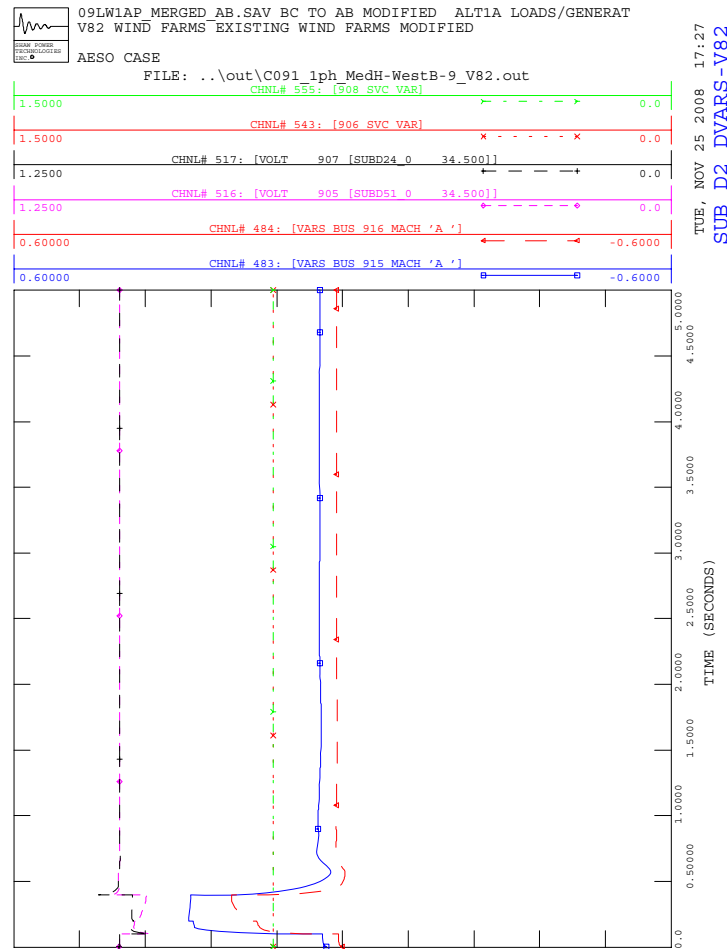
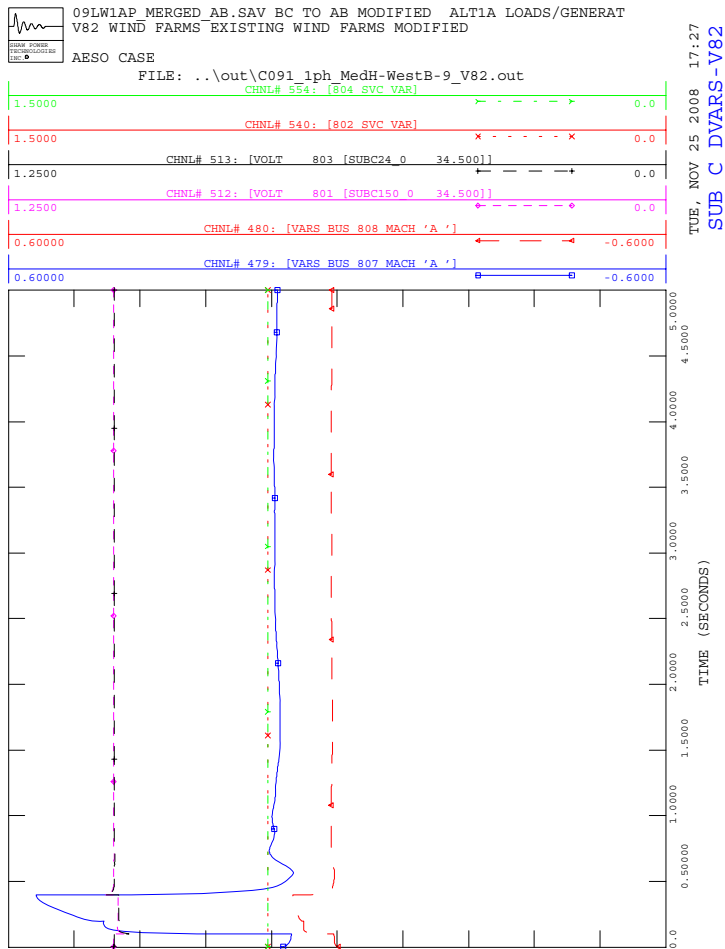
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

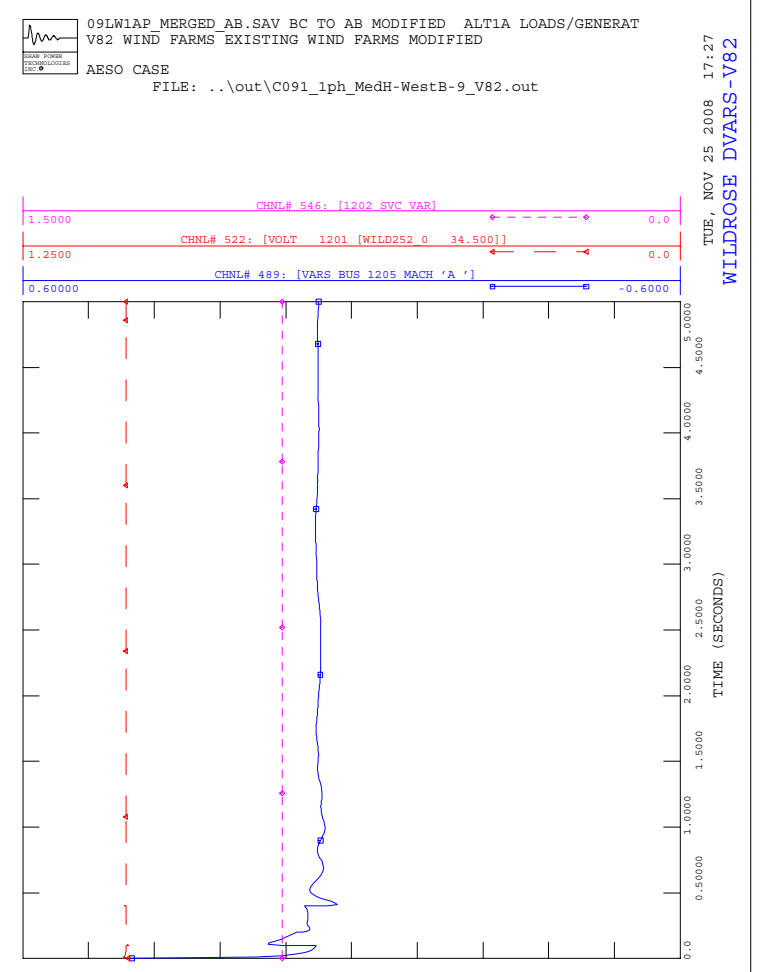
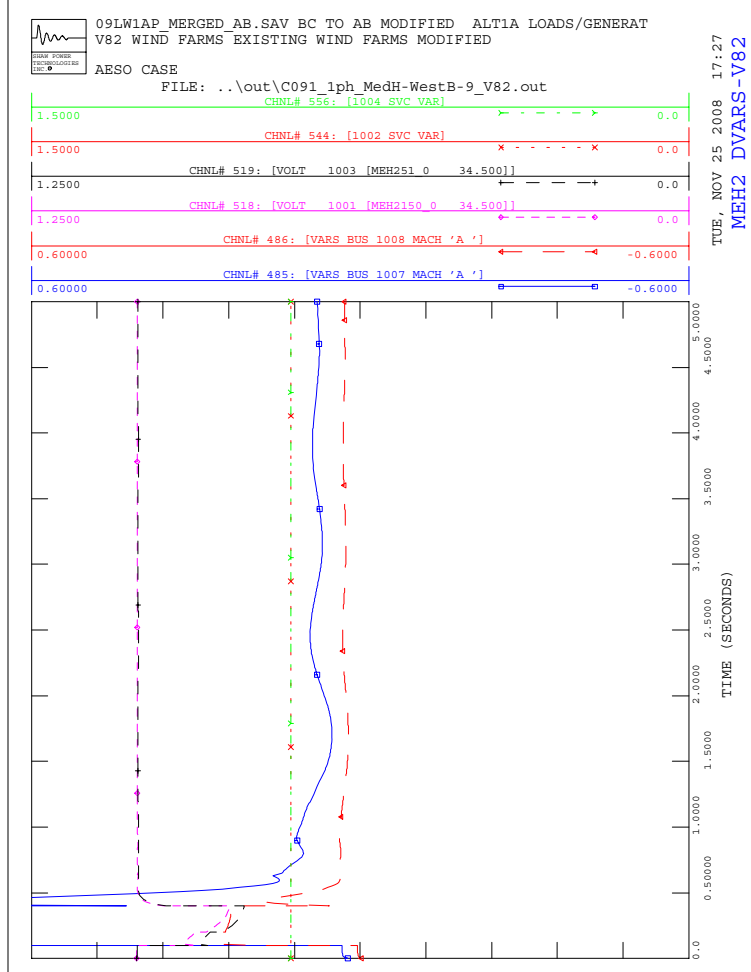
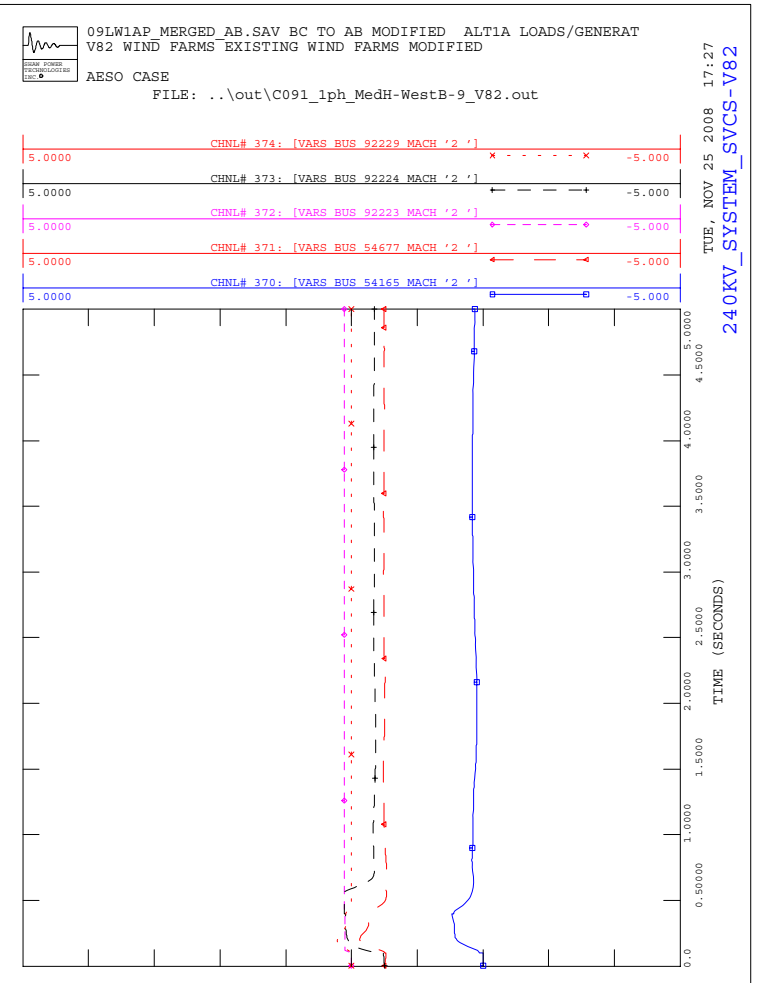
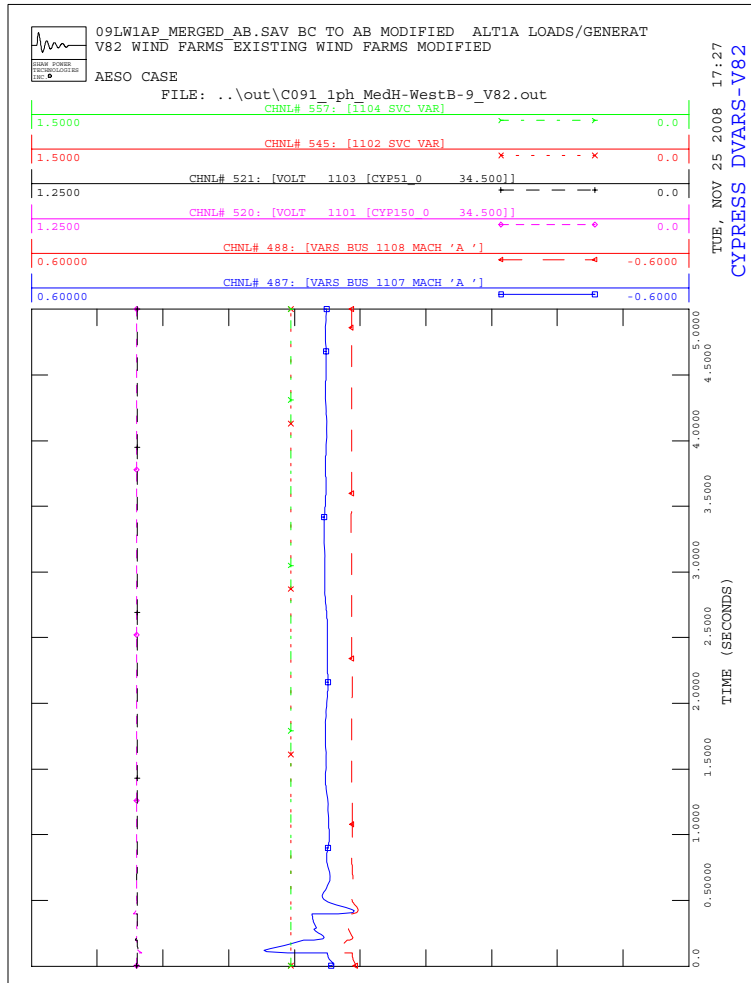
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TUE, NOV 25 2008 17:27
 MATL2 DVARS-SVC-V82



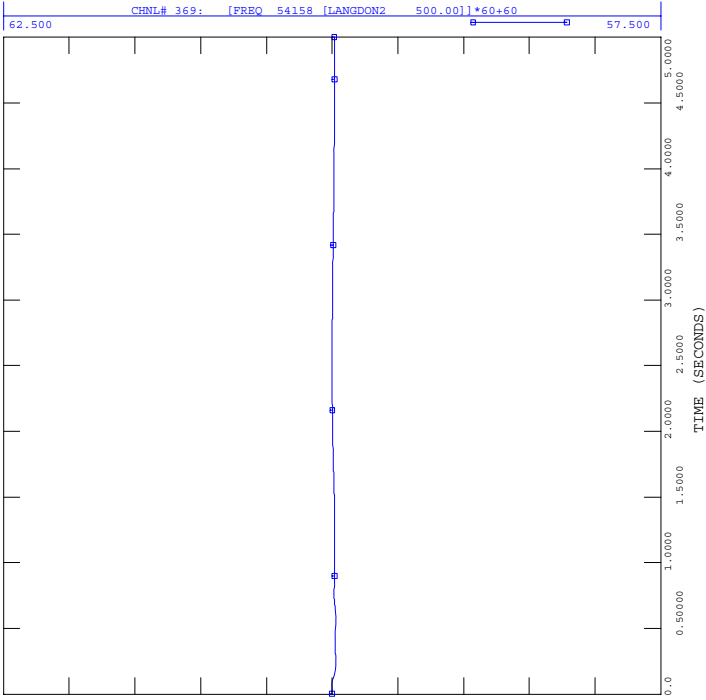






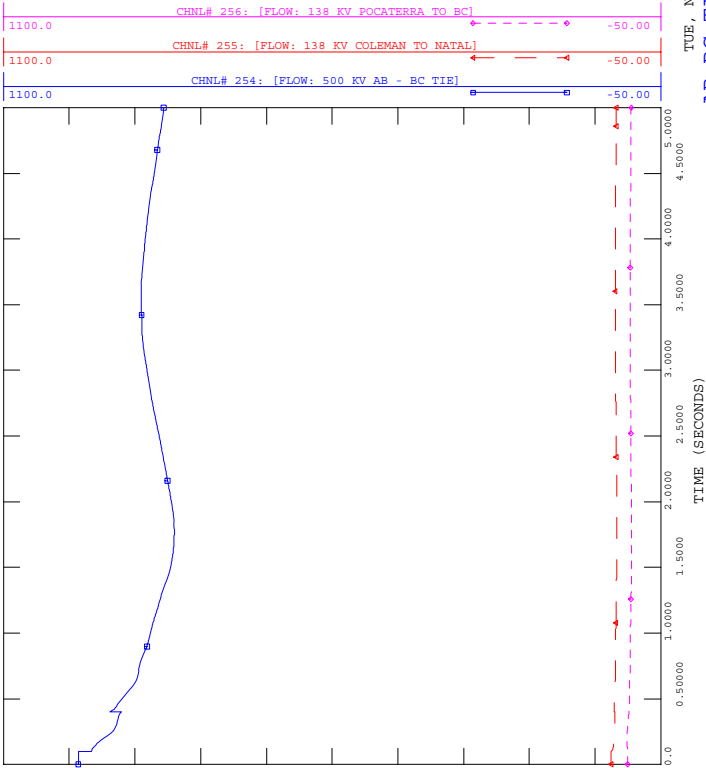
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C091_1ph_MedH-WestB-9_V82.out

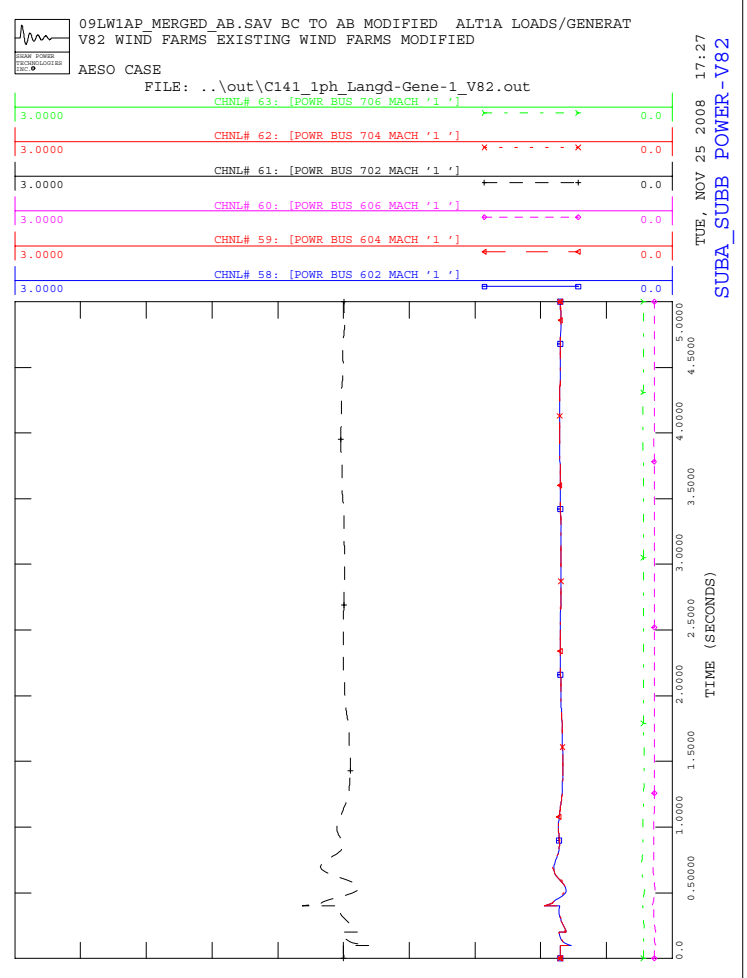
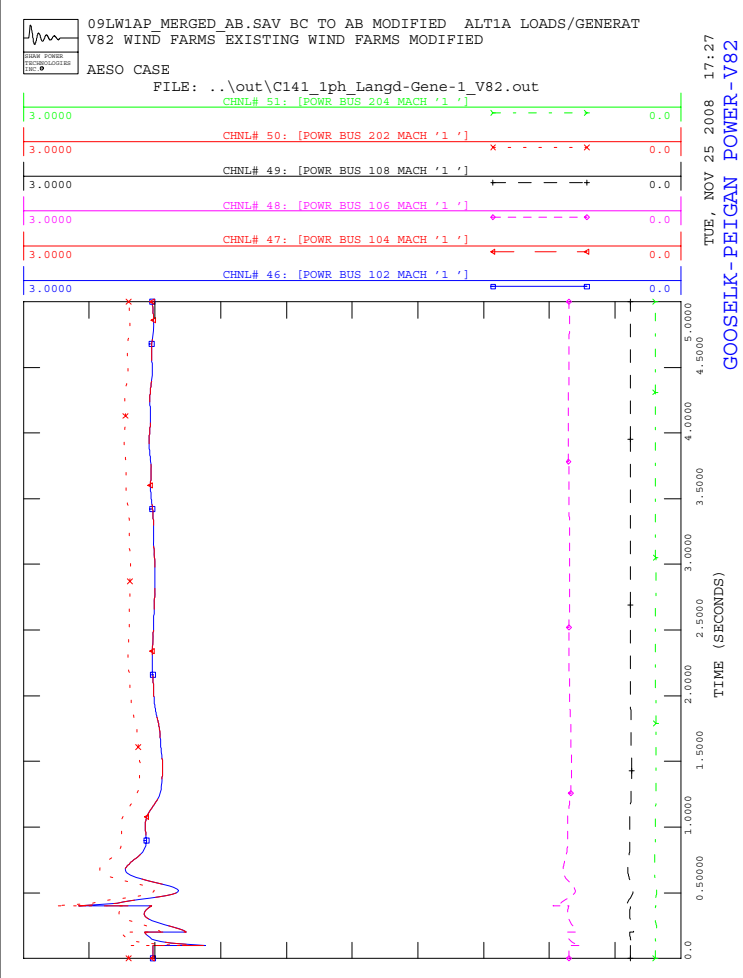
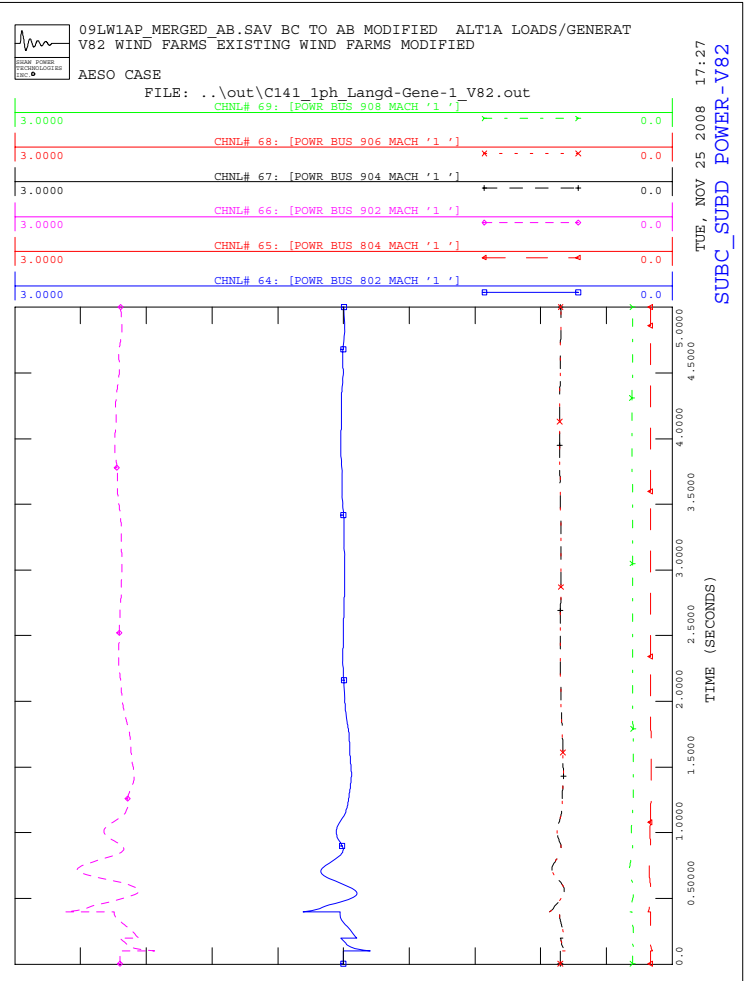
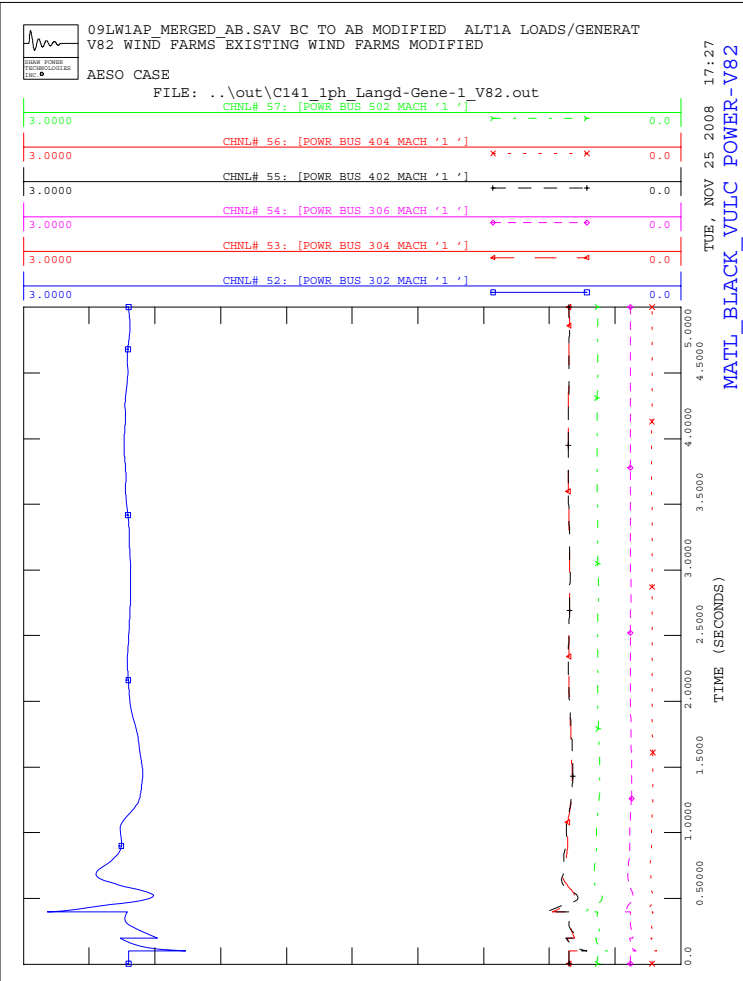
TUE, NOV 25 2008 17:27
LANGDON_FRQ-V82

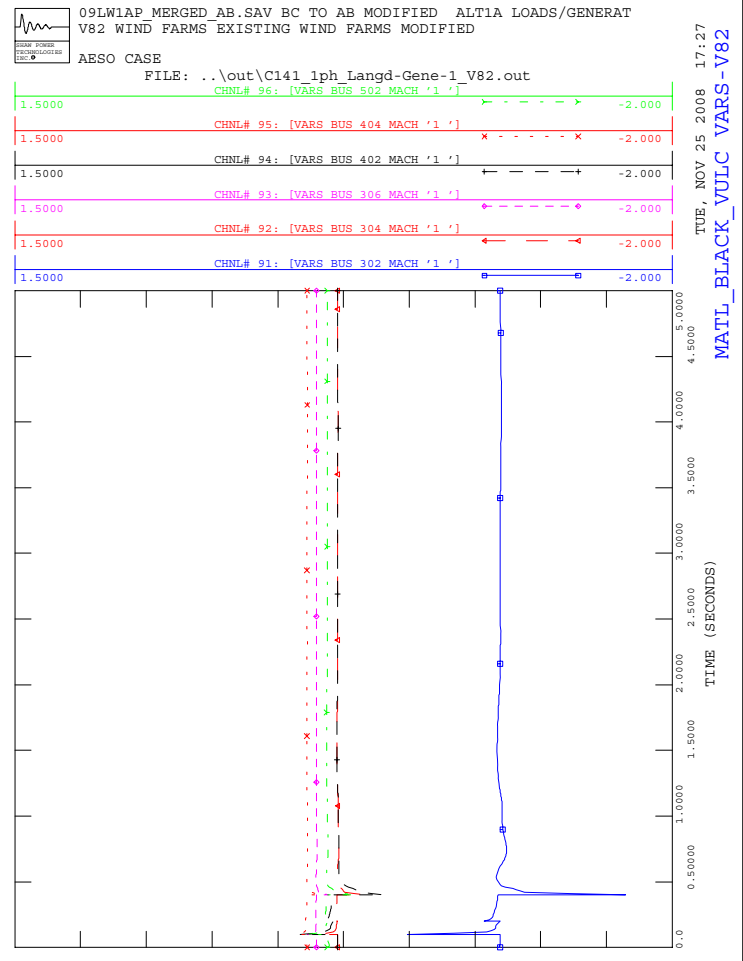
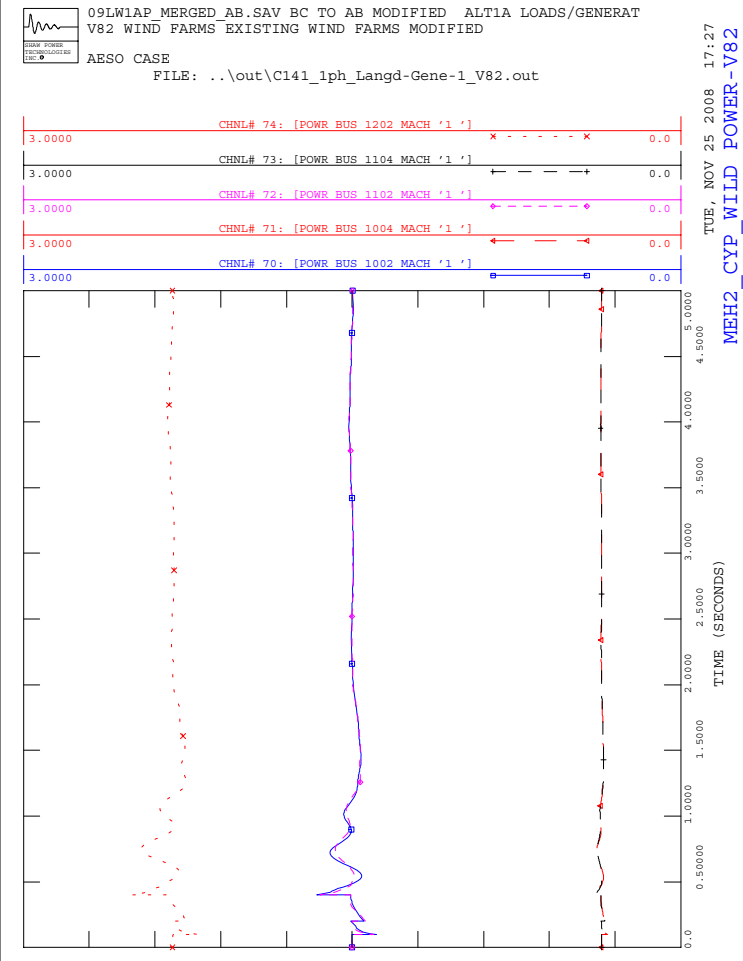
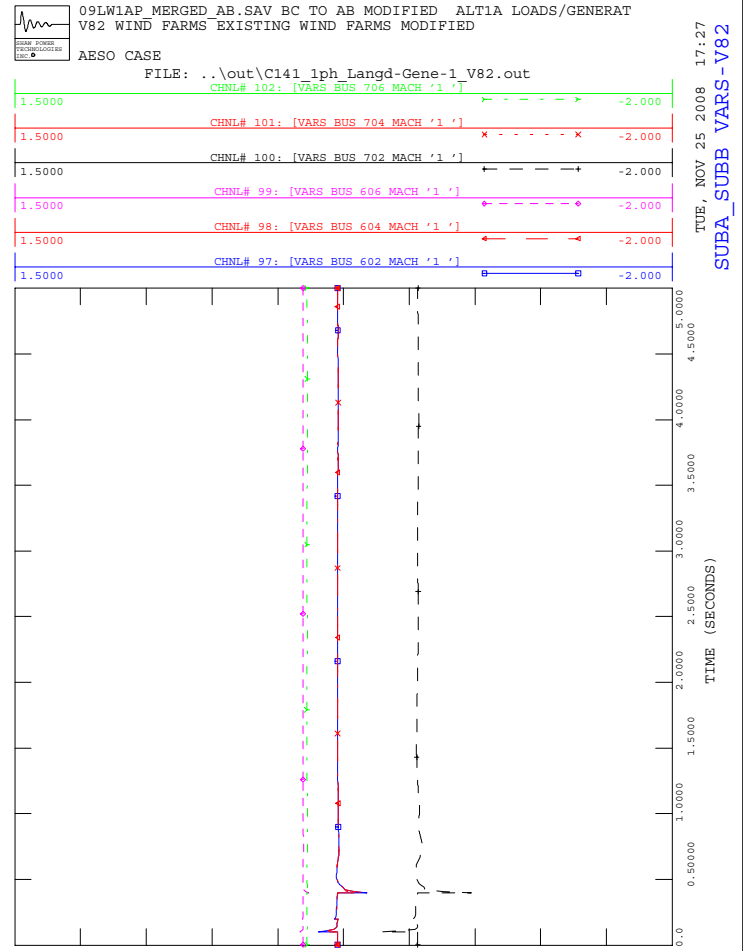
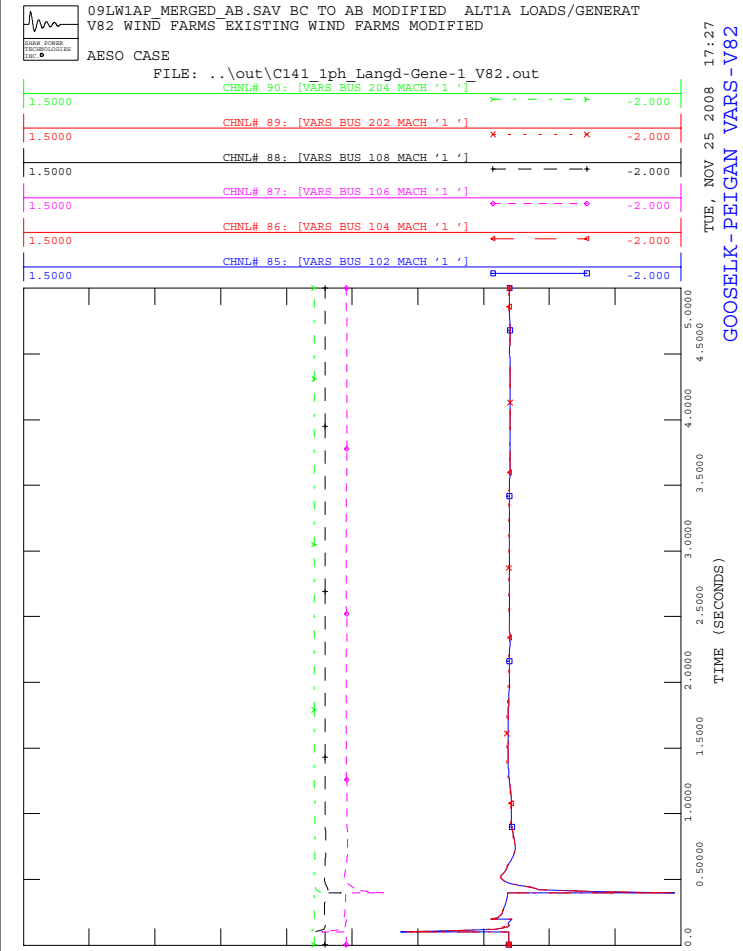


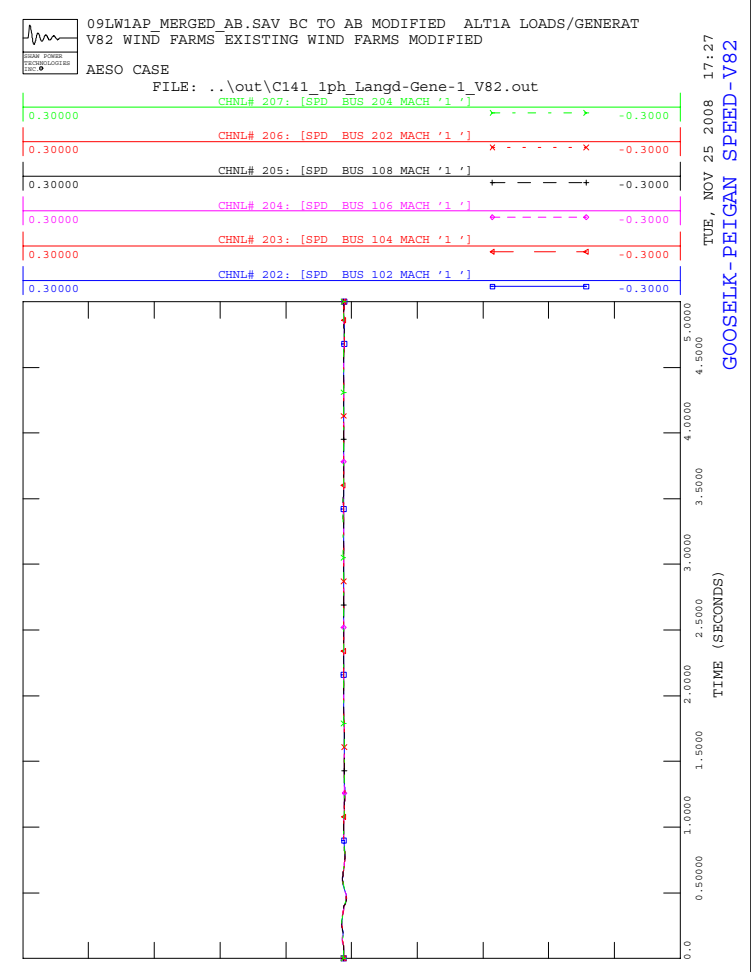
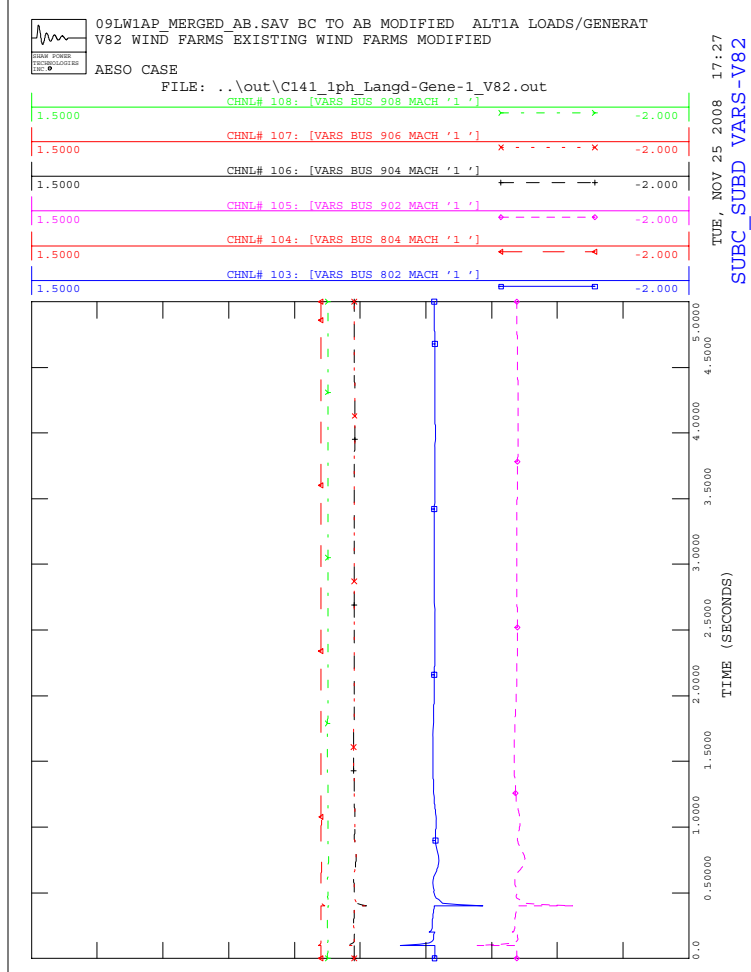
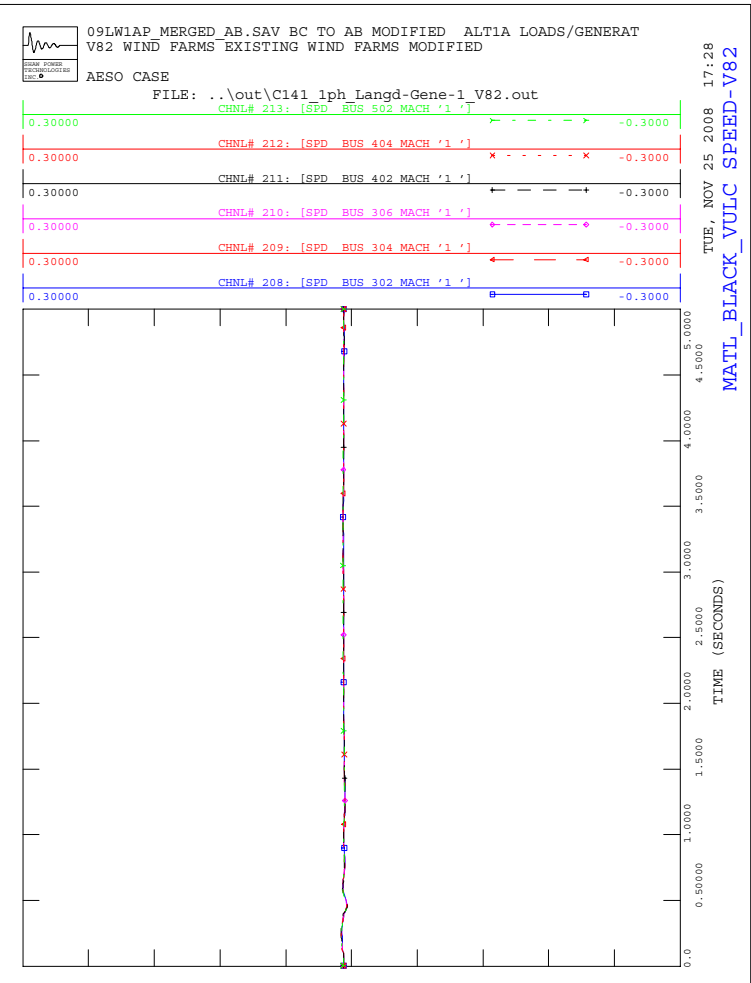
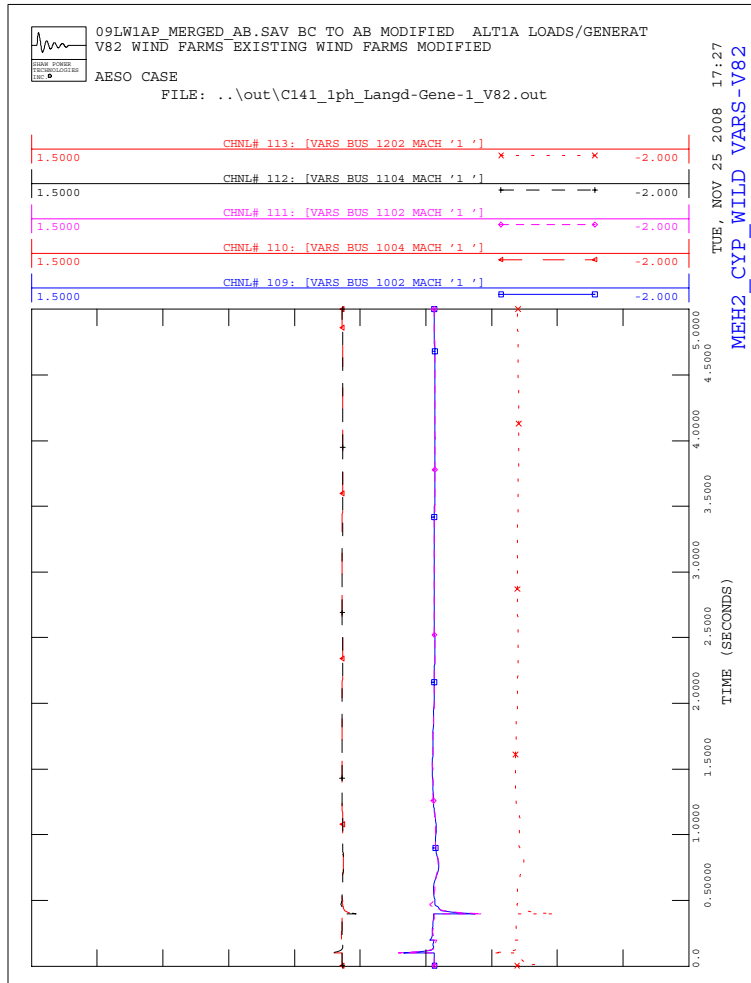
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C091_1ph_MedH-WestB-9_V82.out

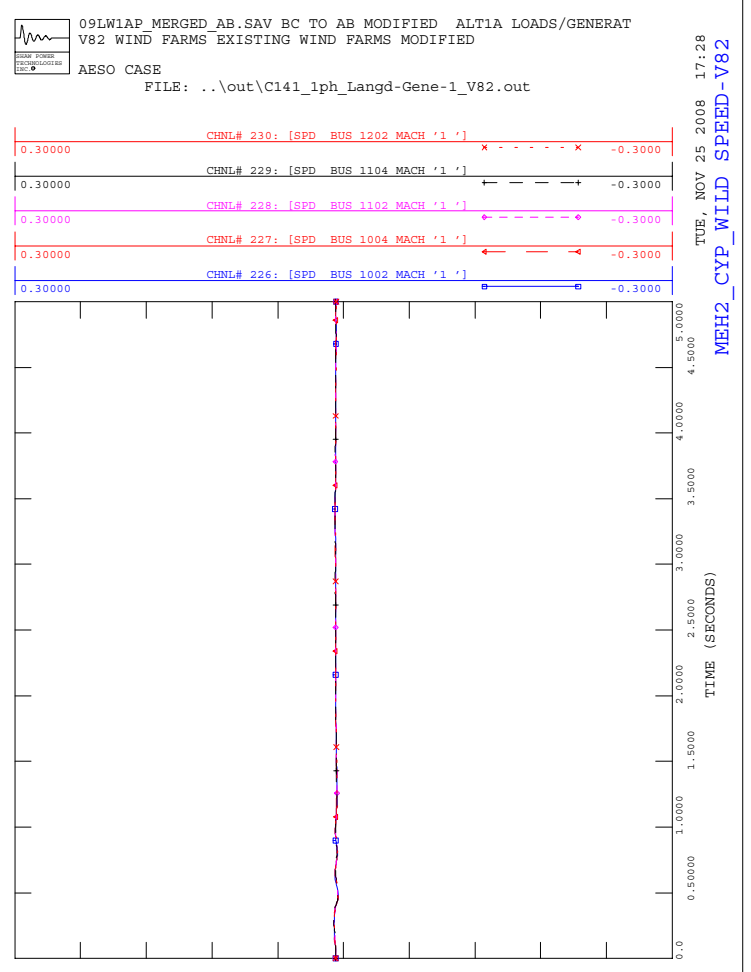
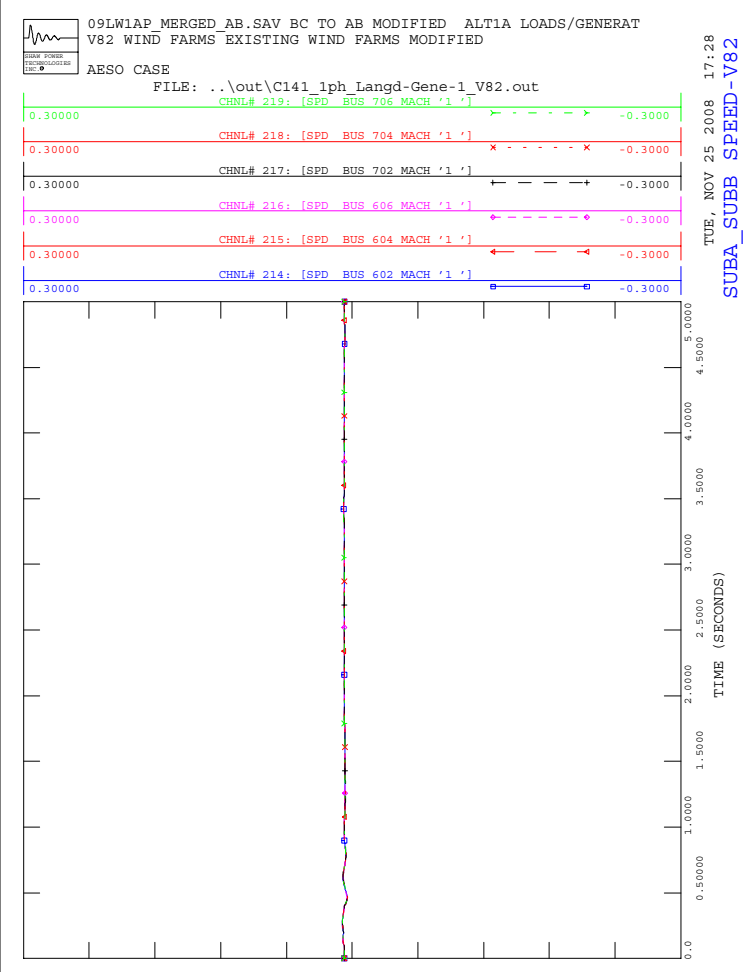
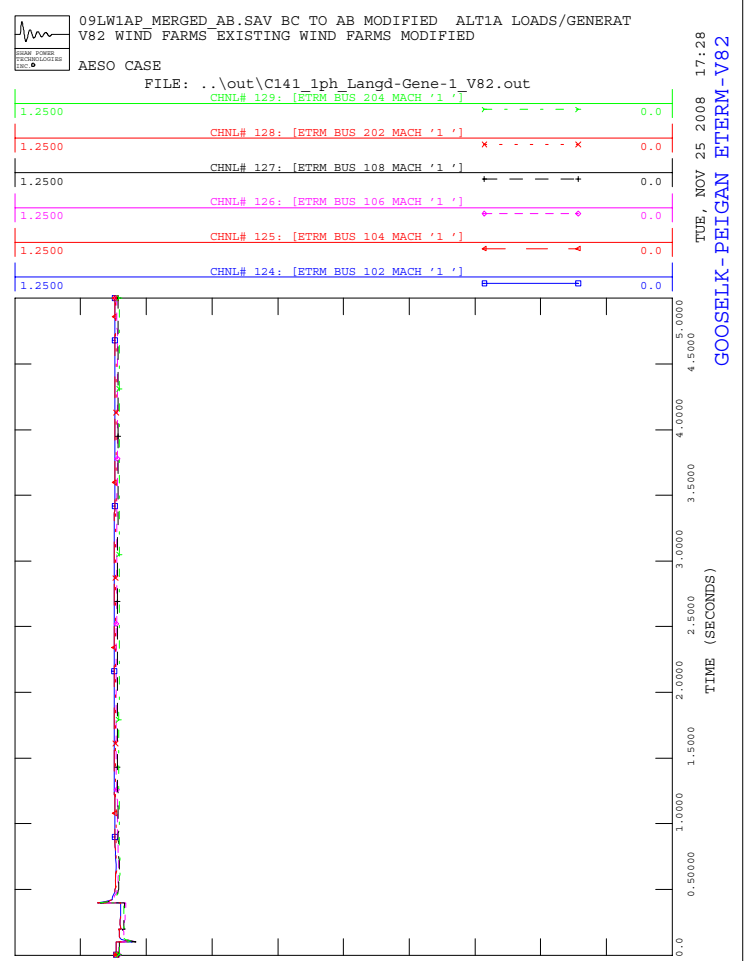
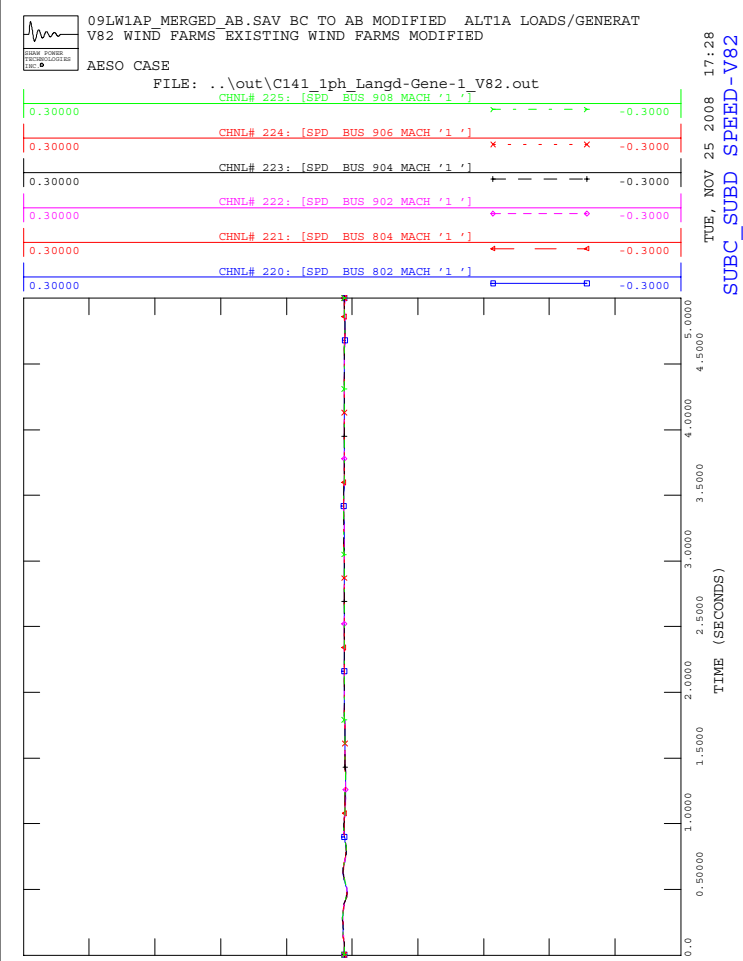
TUE, NOV 25 2008 17:27
AB_BC_TIE_FLOWS-V82

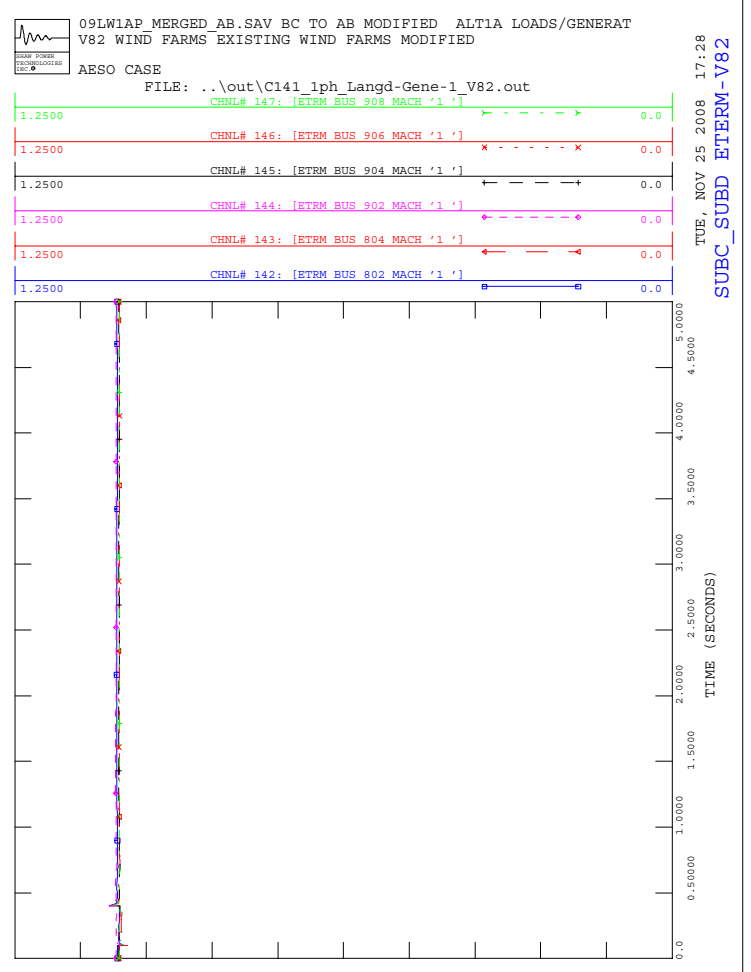
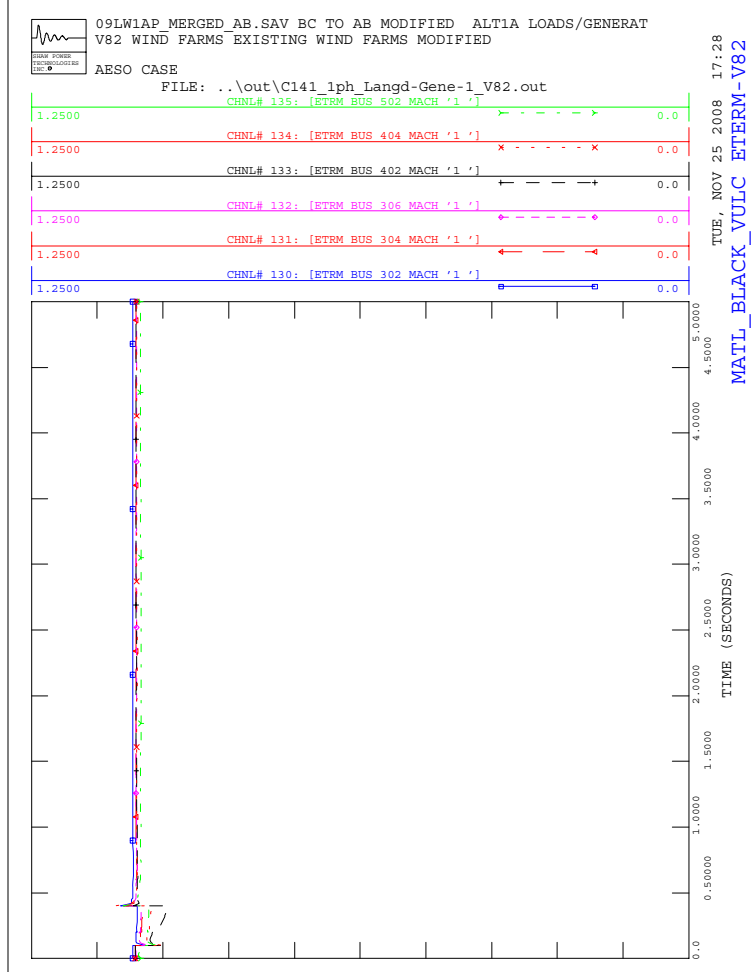
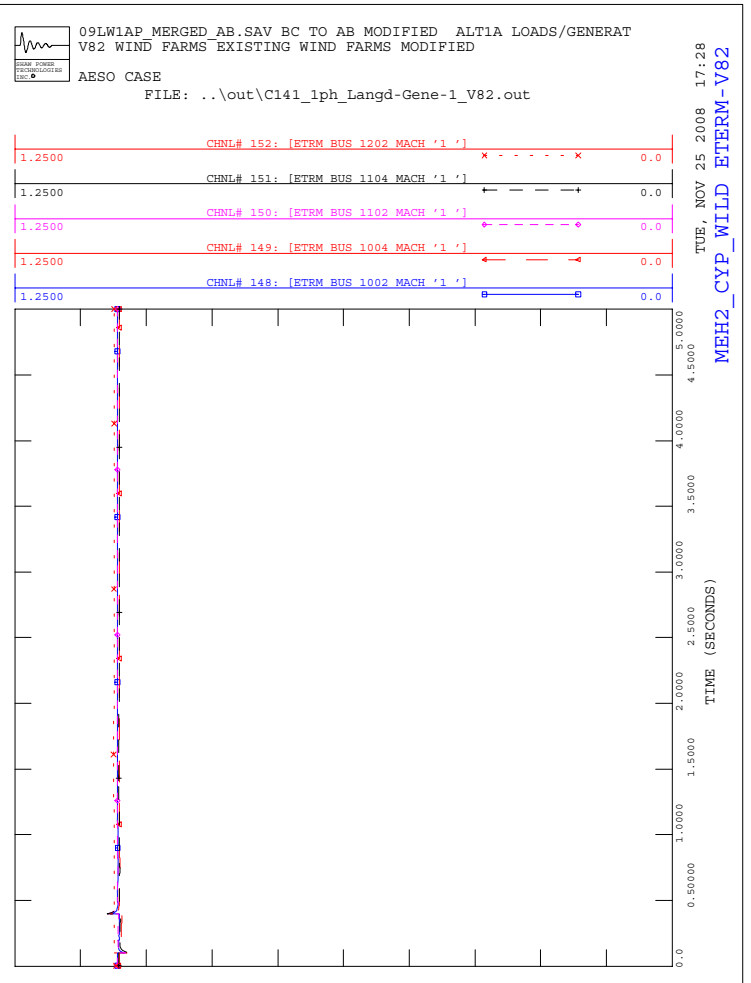
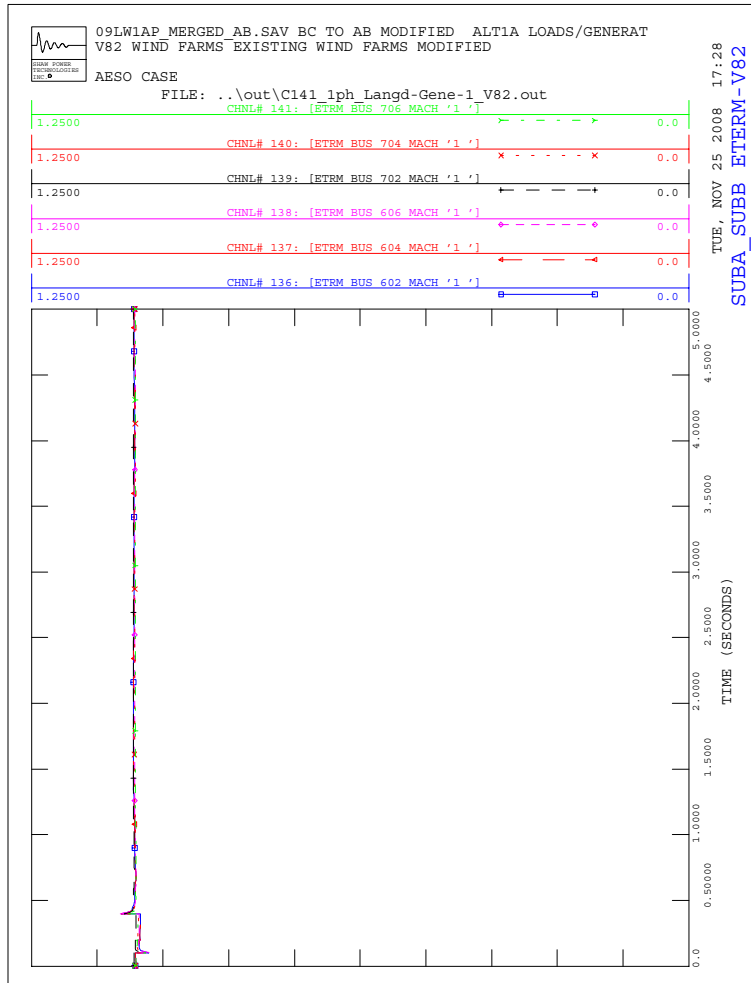


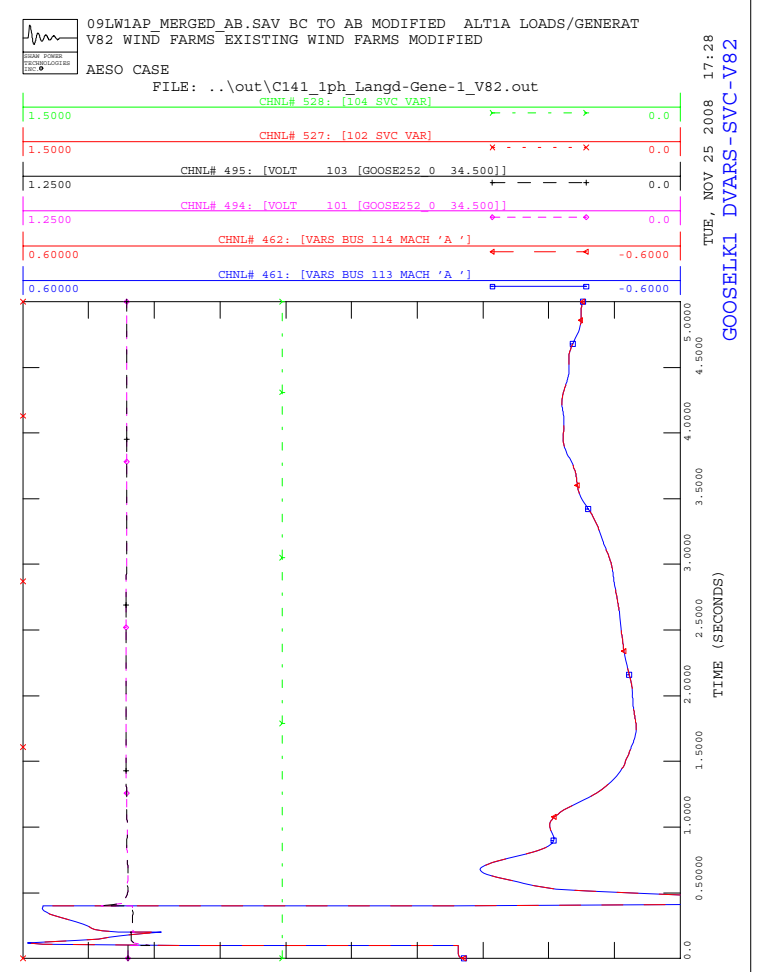
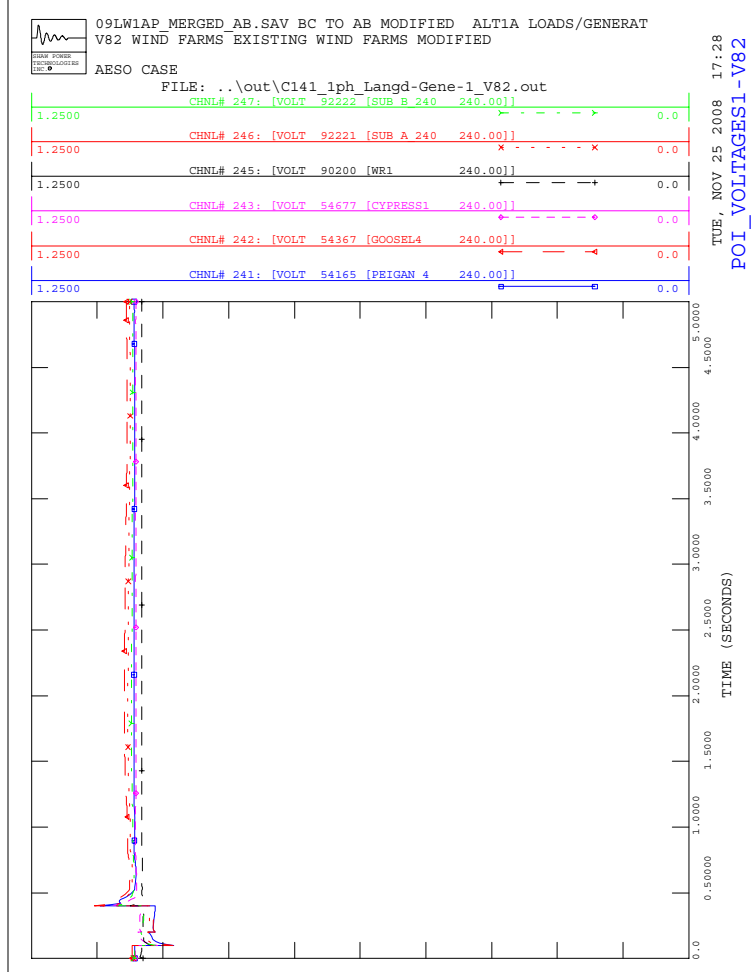
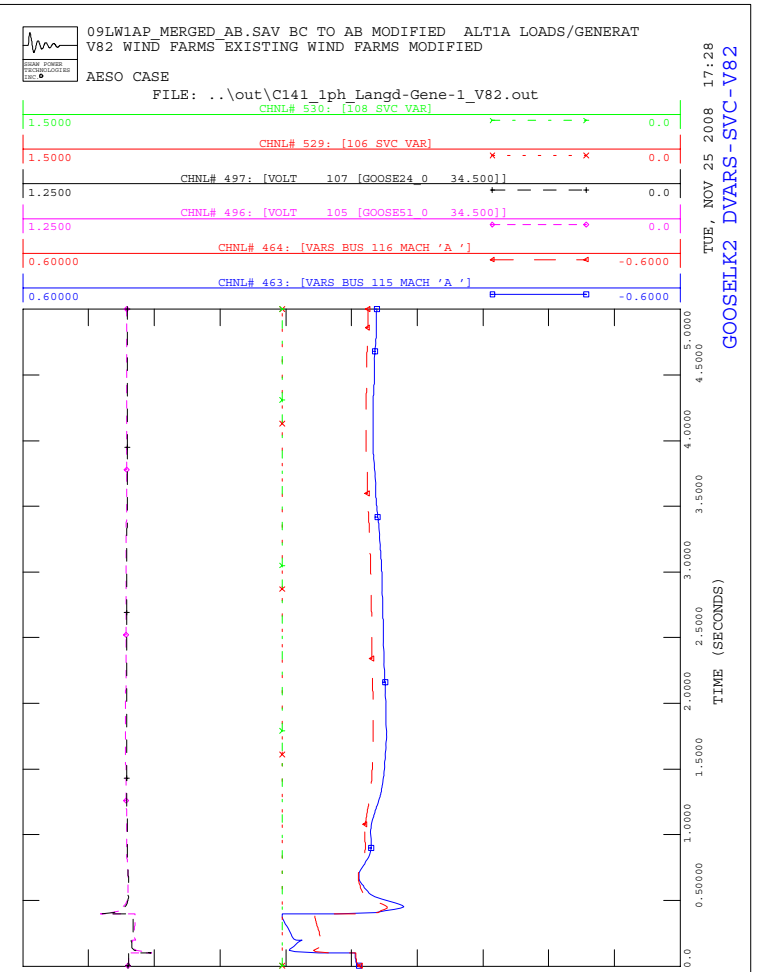
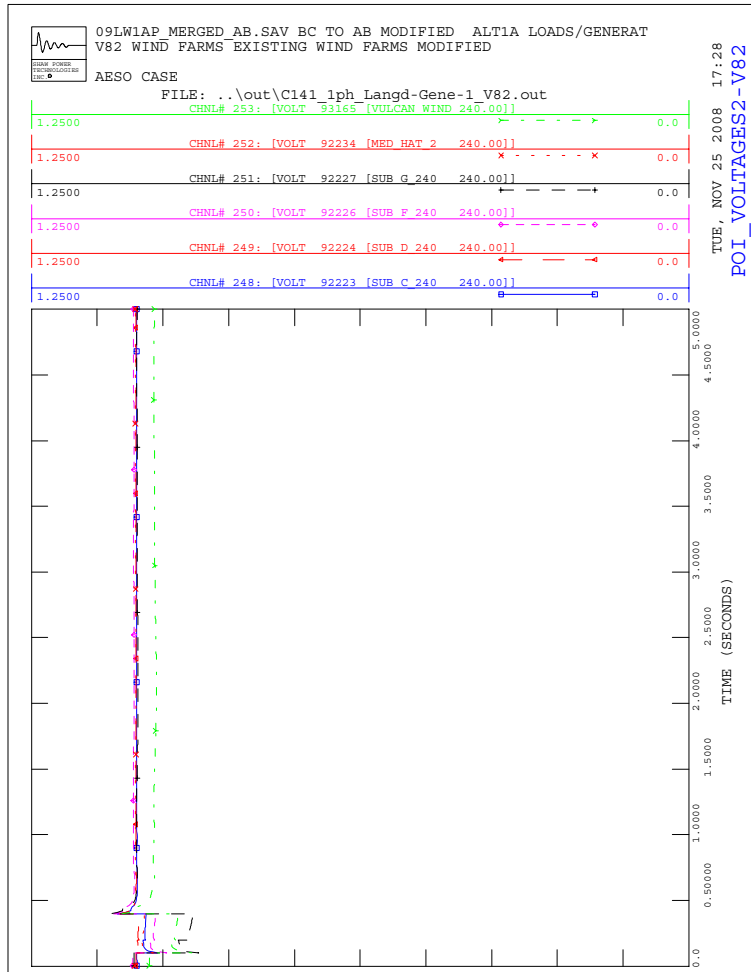


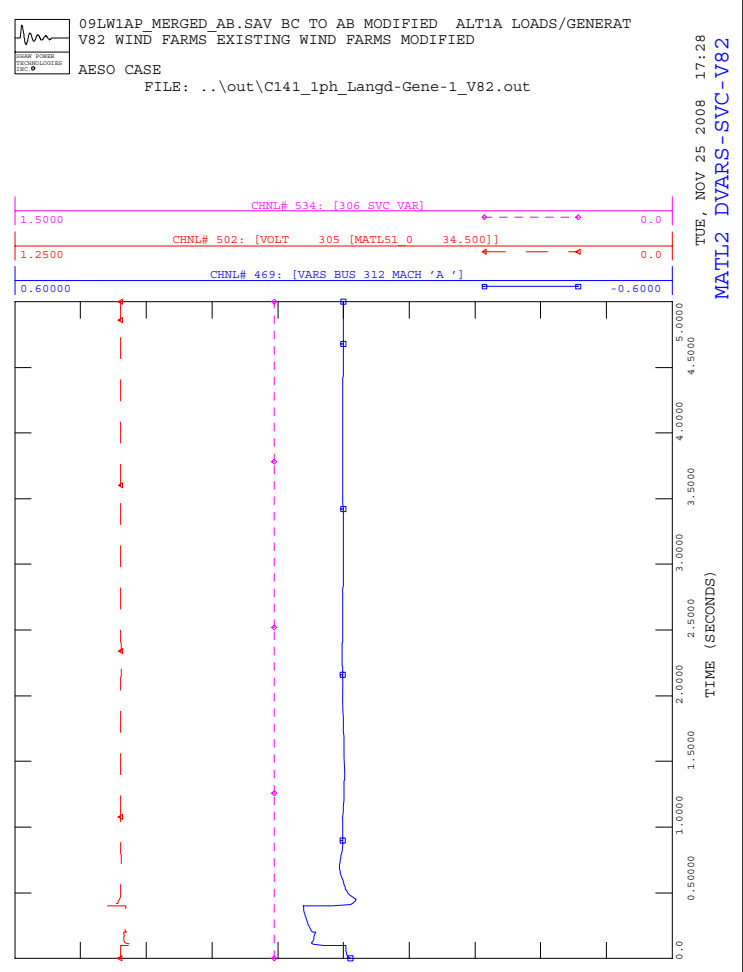
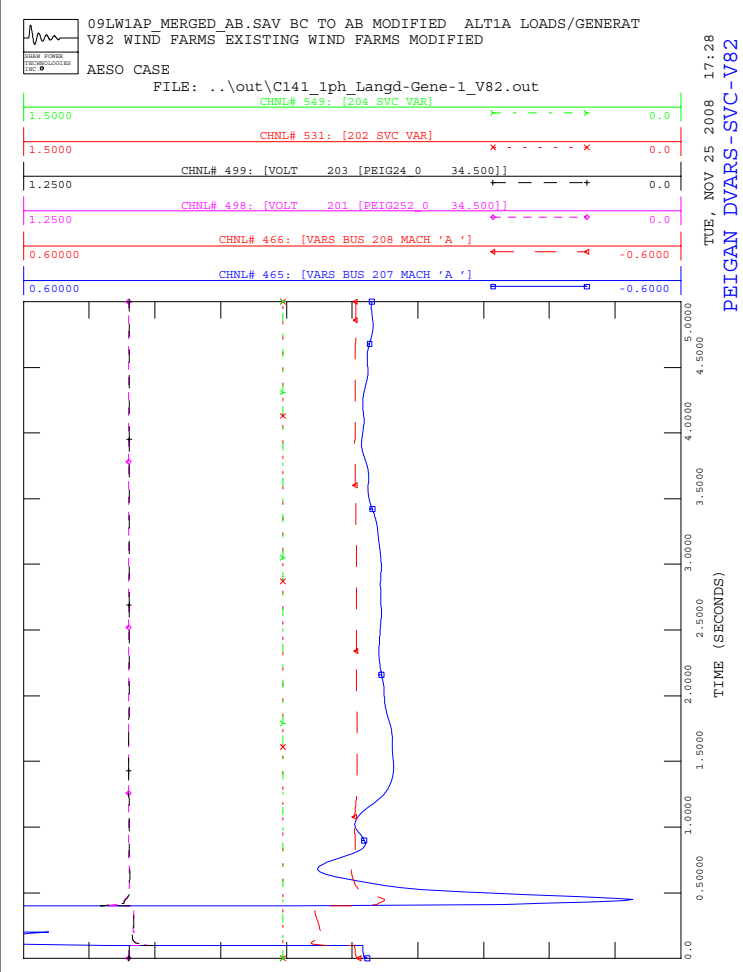
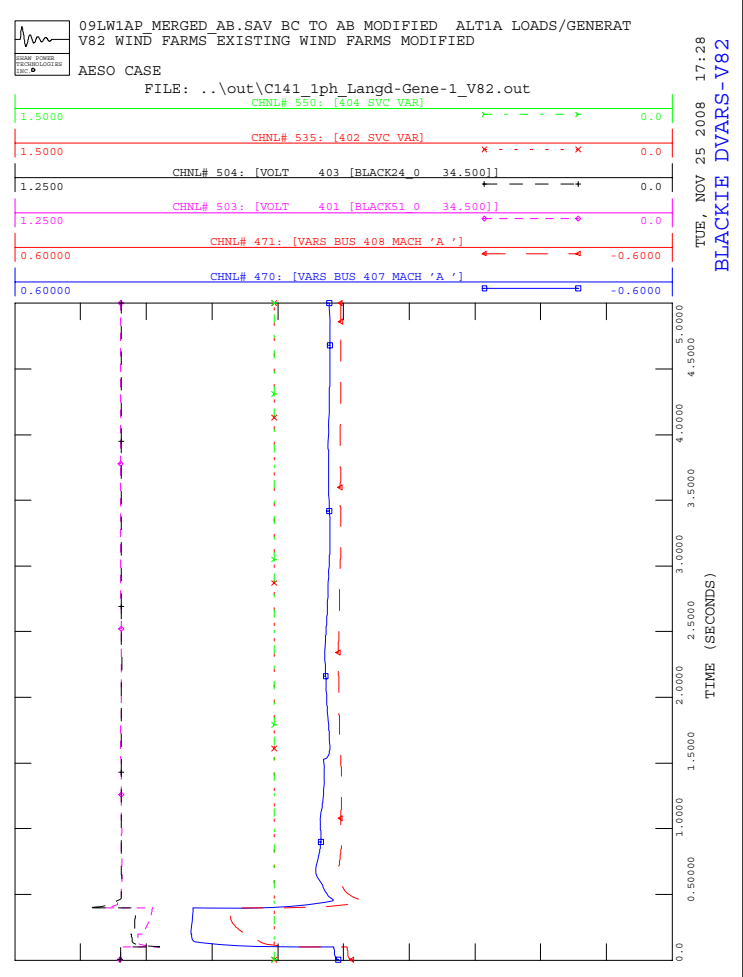
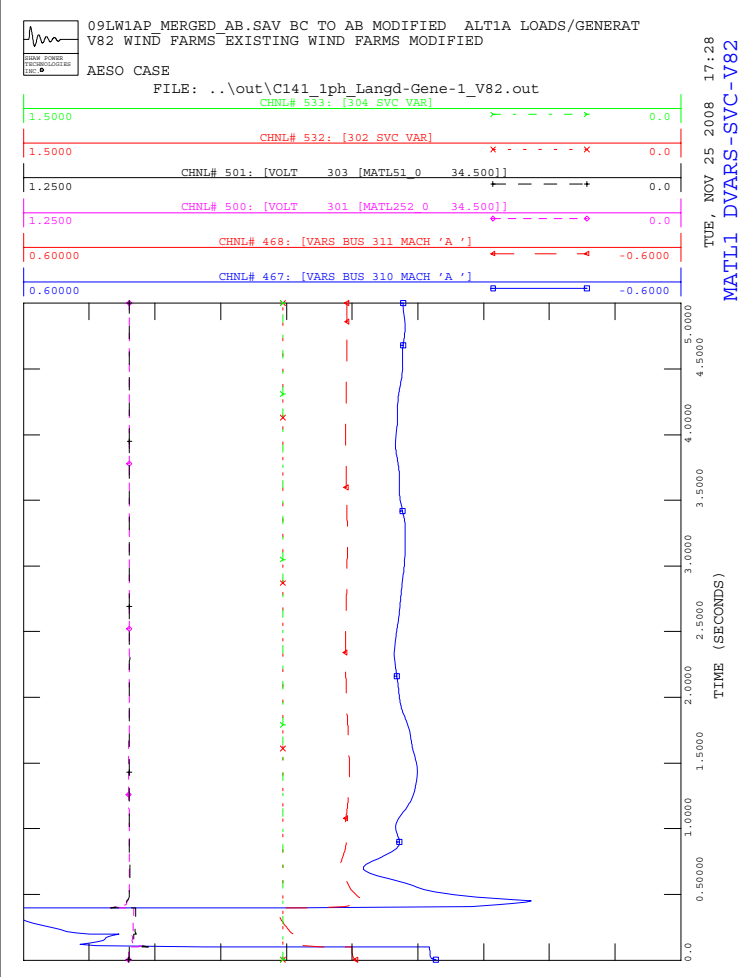


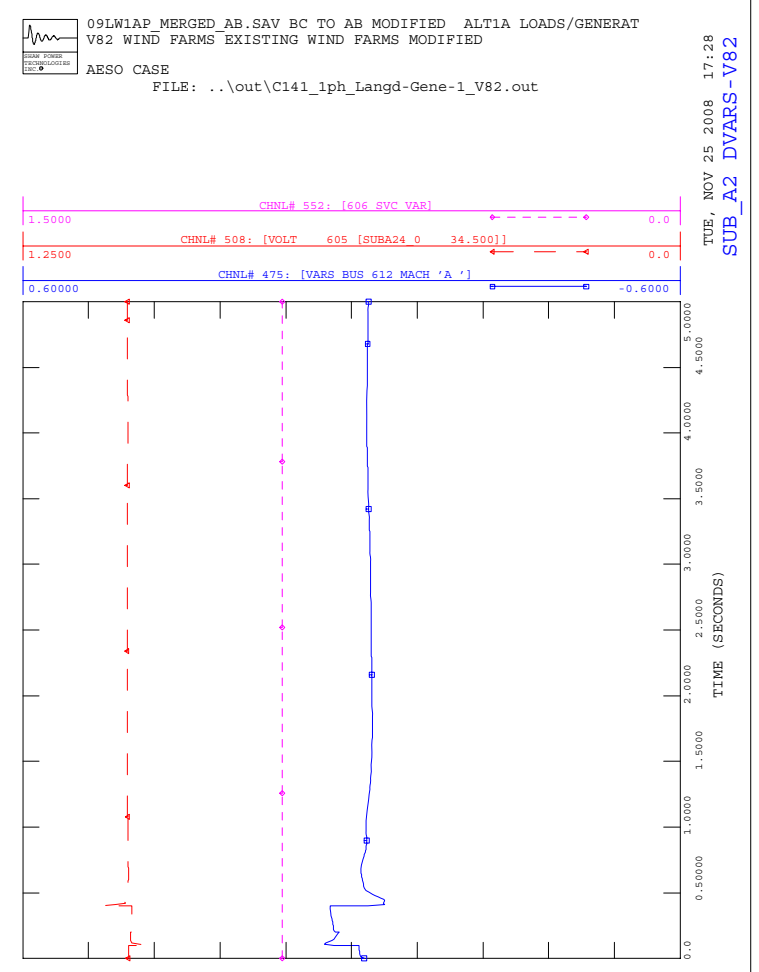
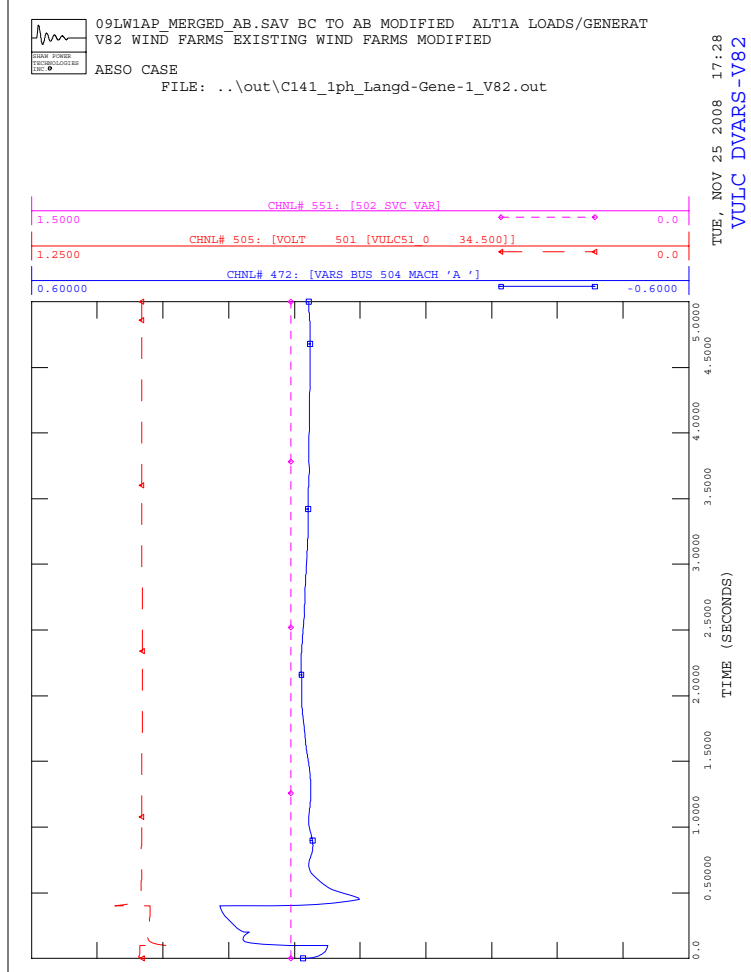
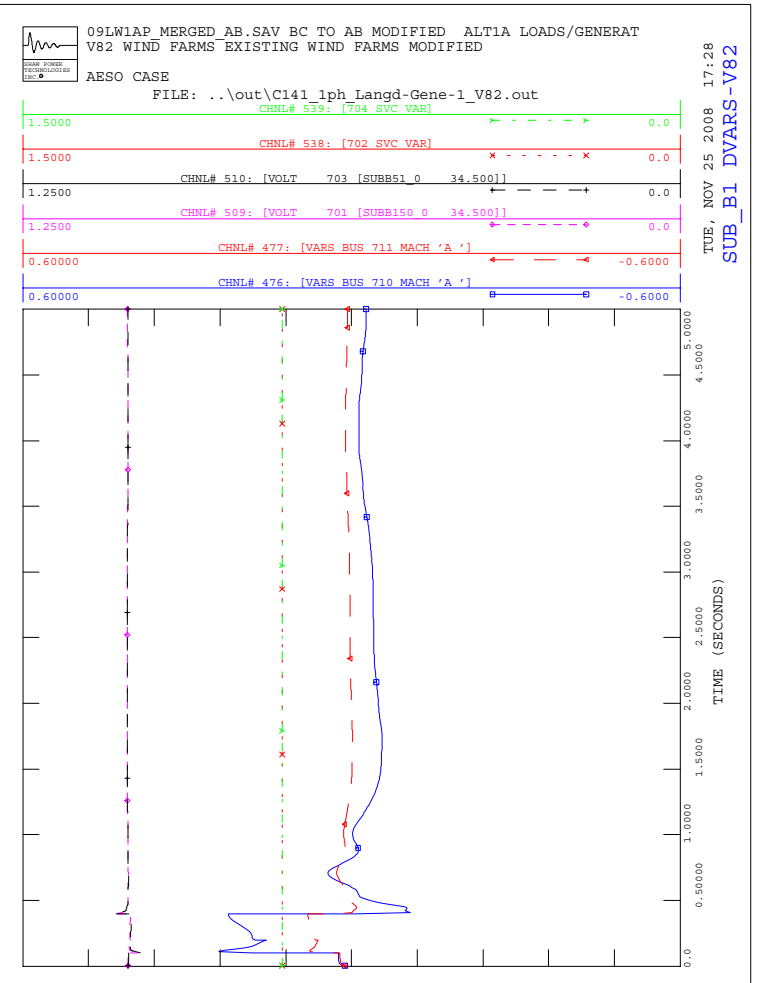
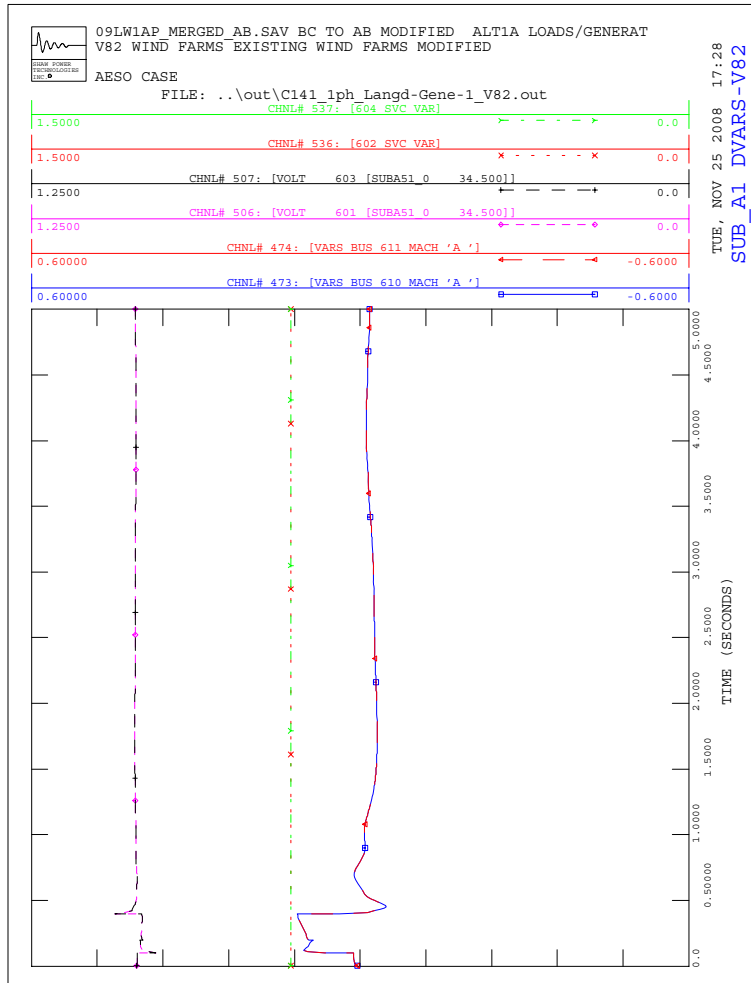


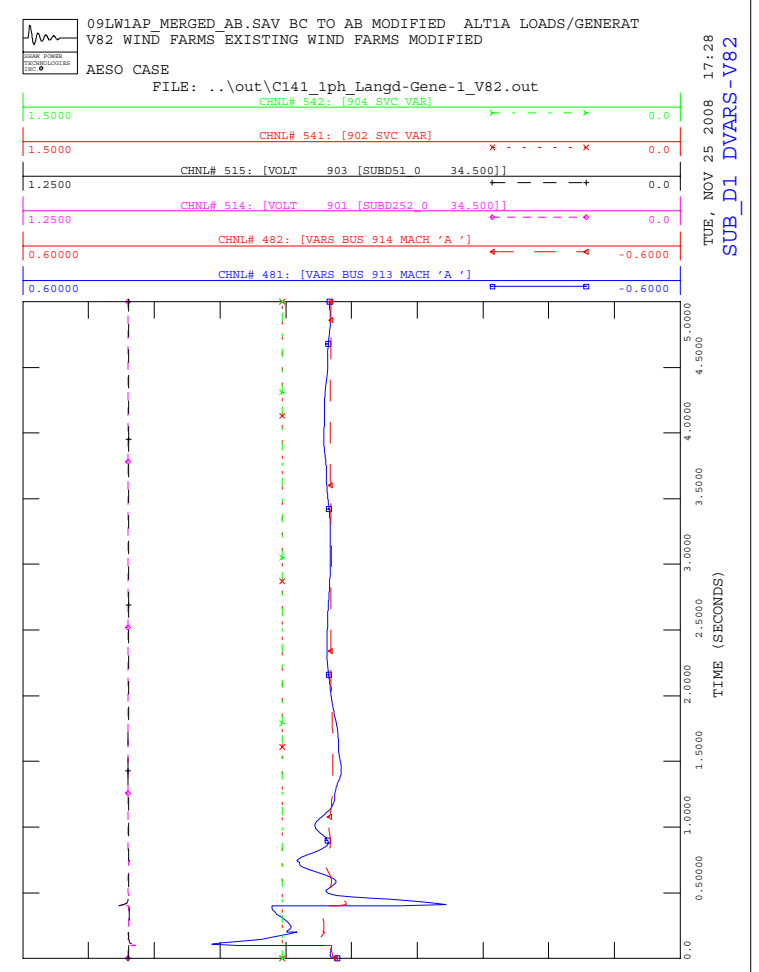
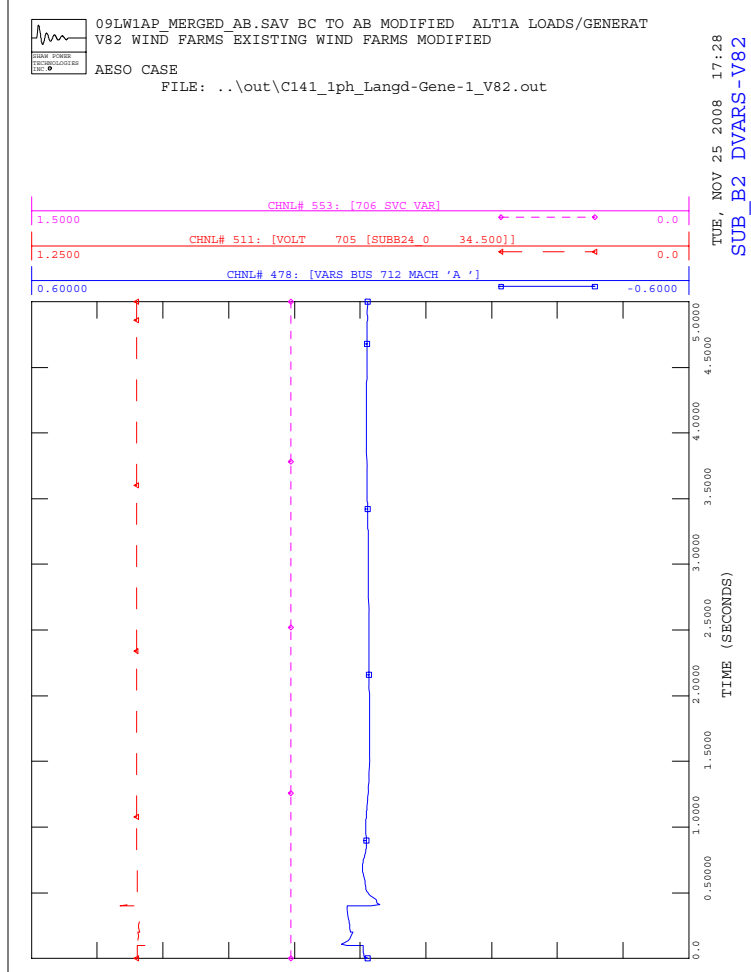
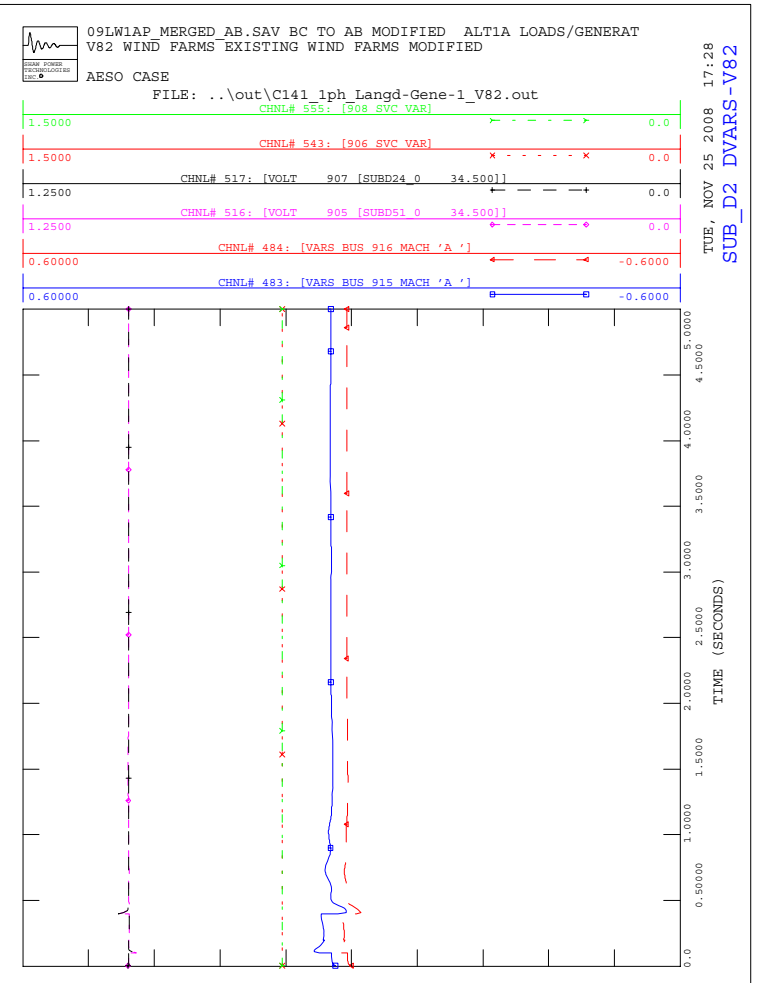
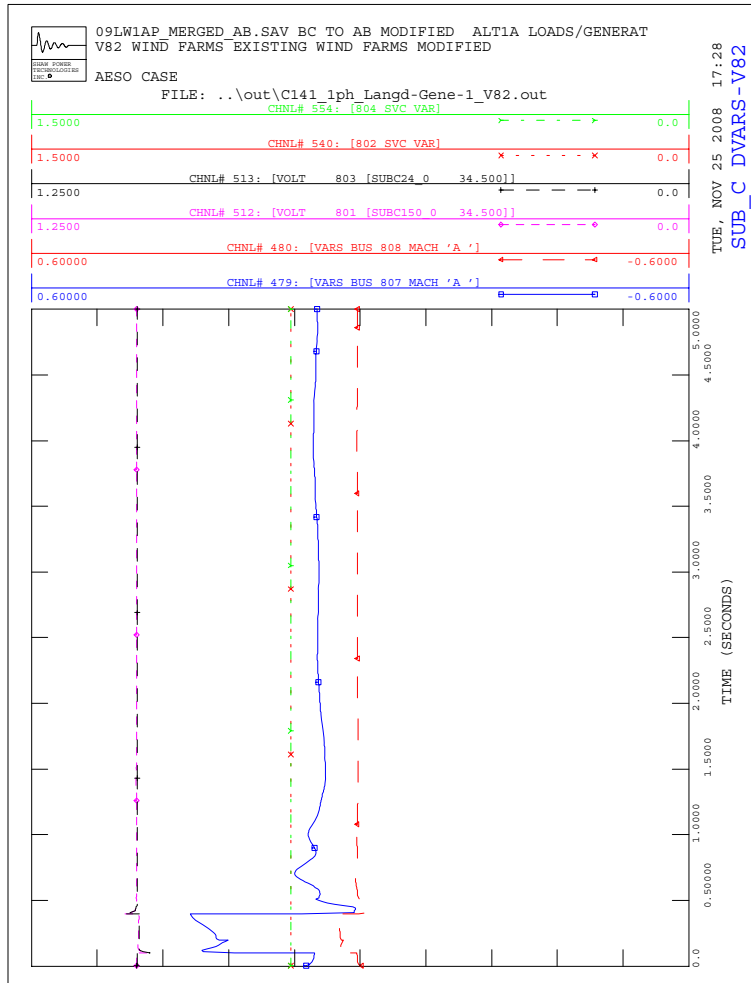


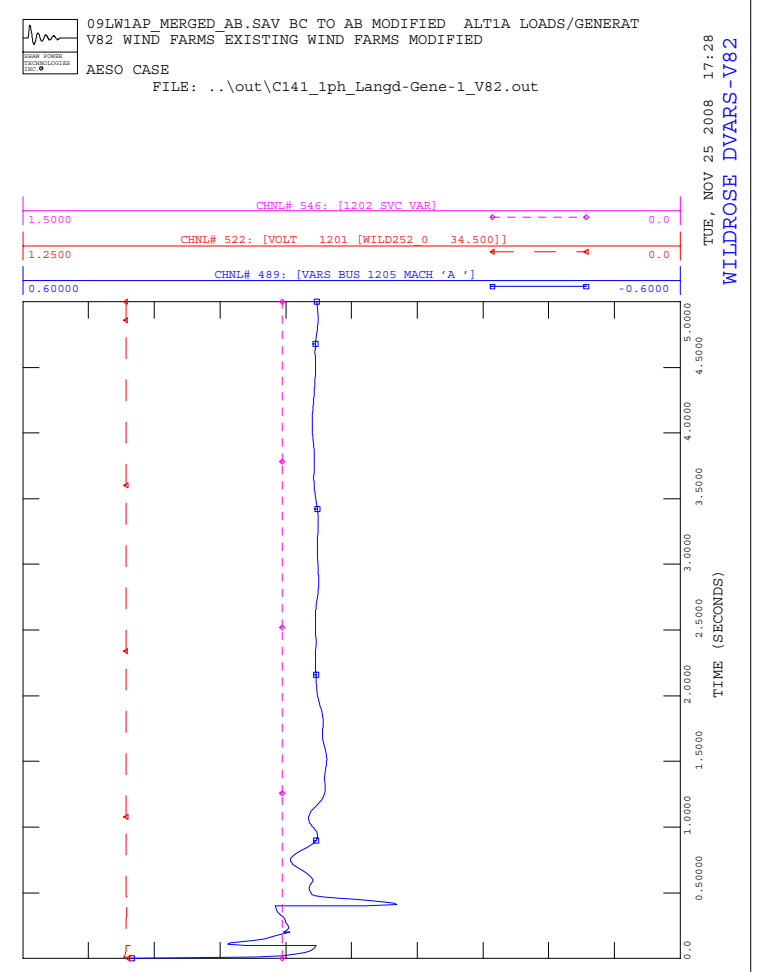
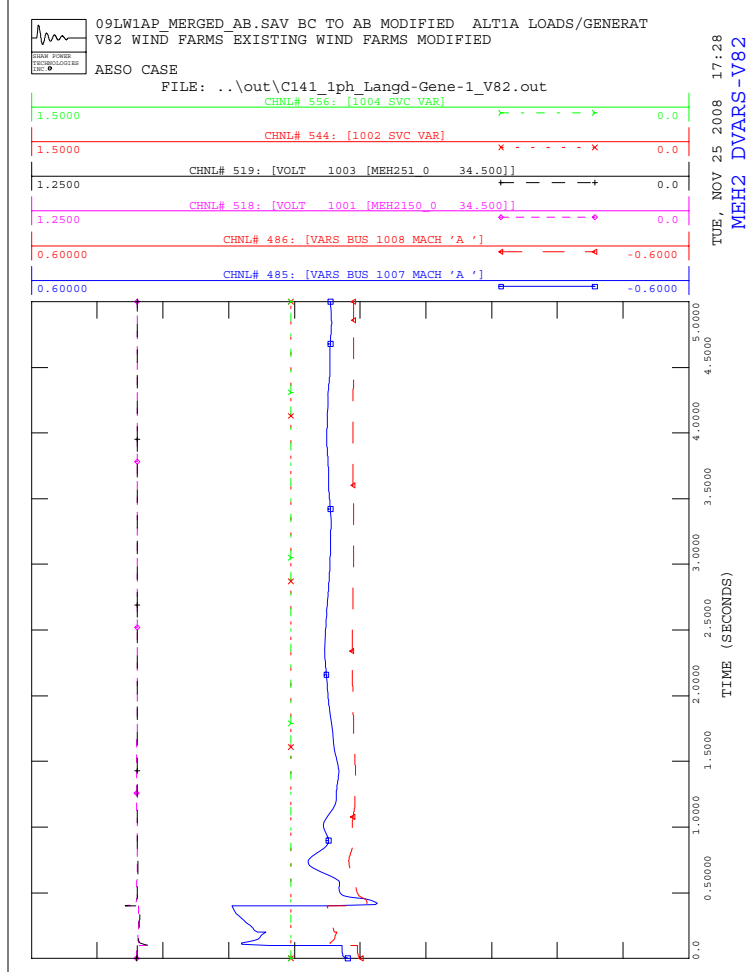
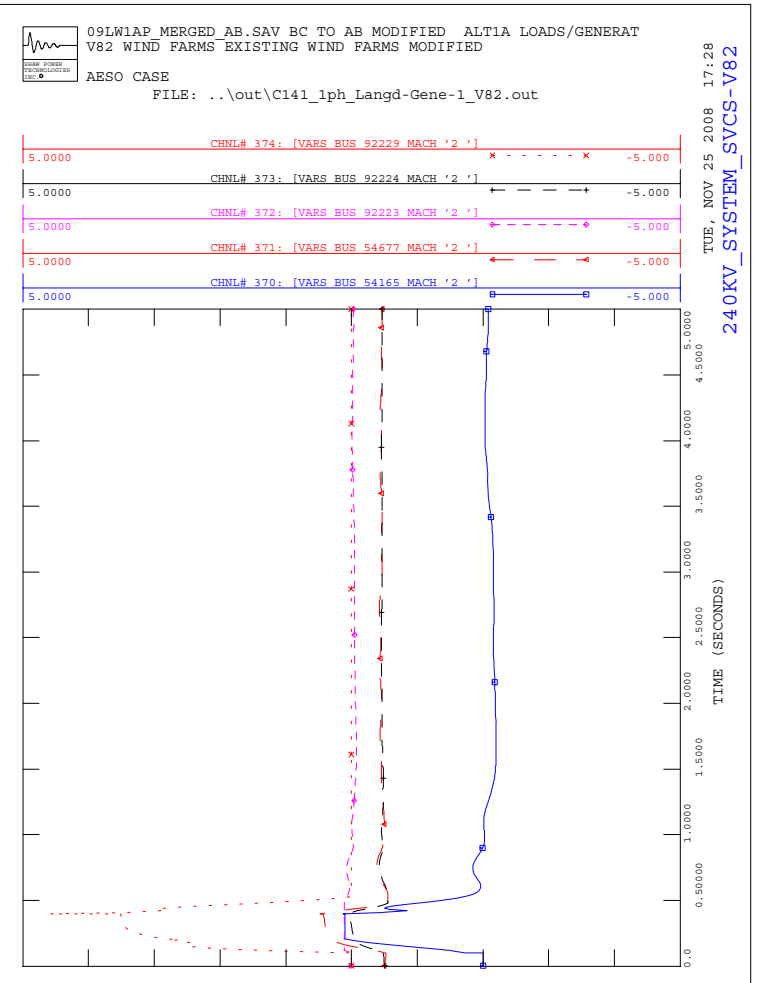
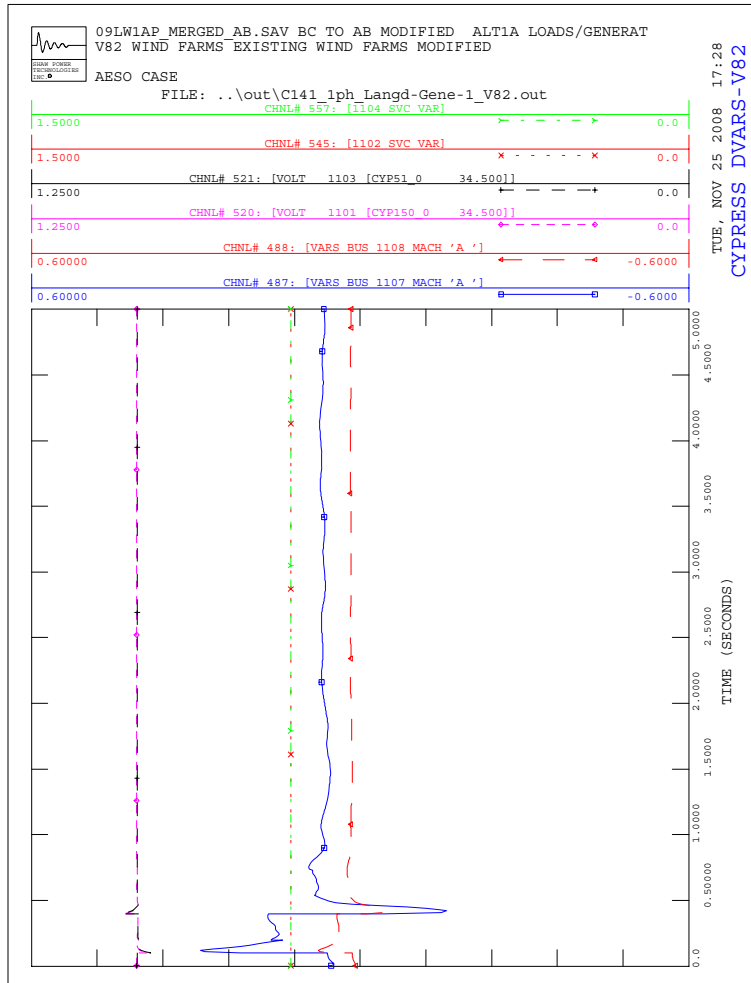








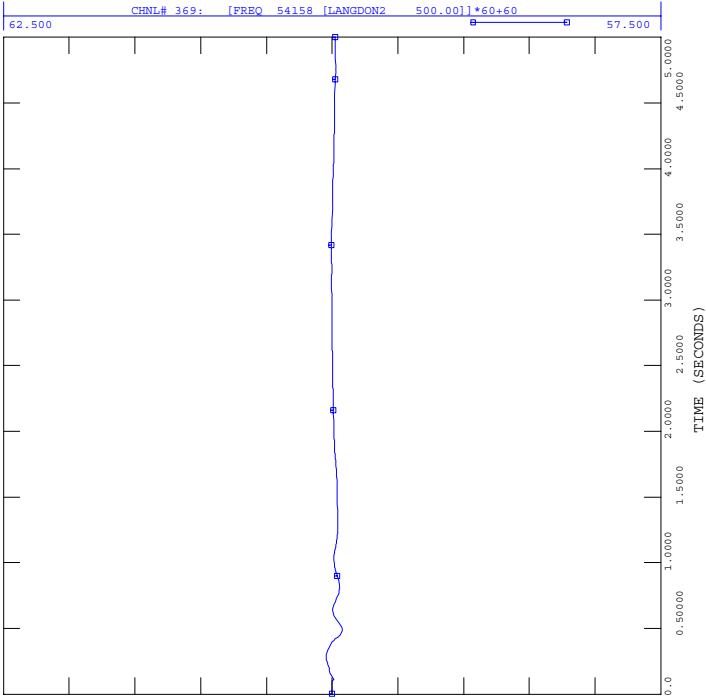






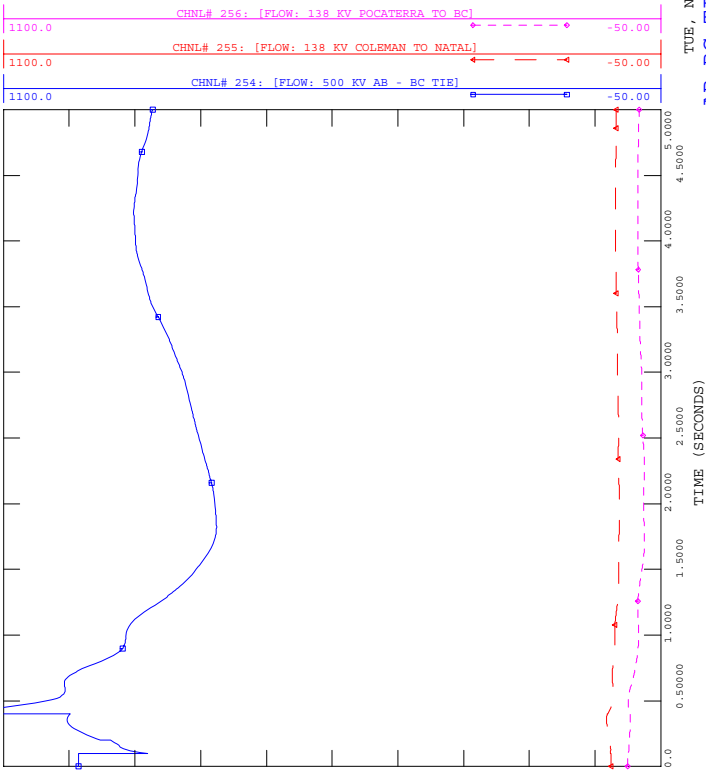
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C141_1ph_Langd-Gen-1_V82.out

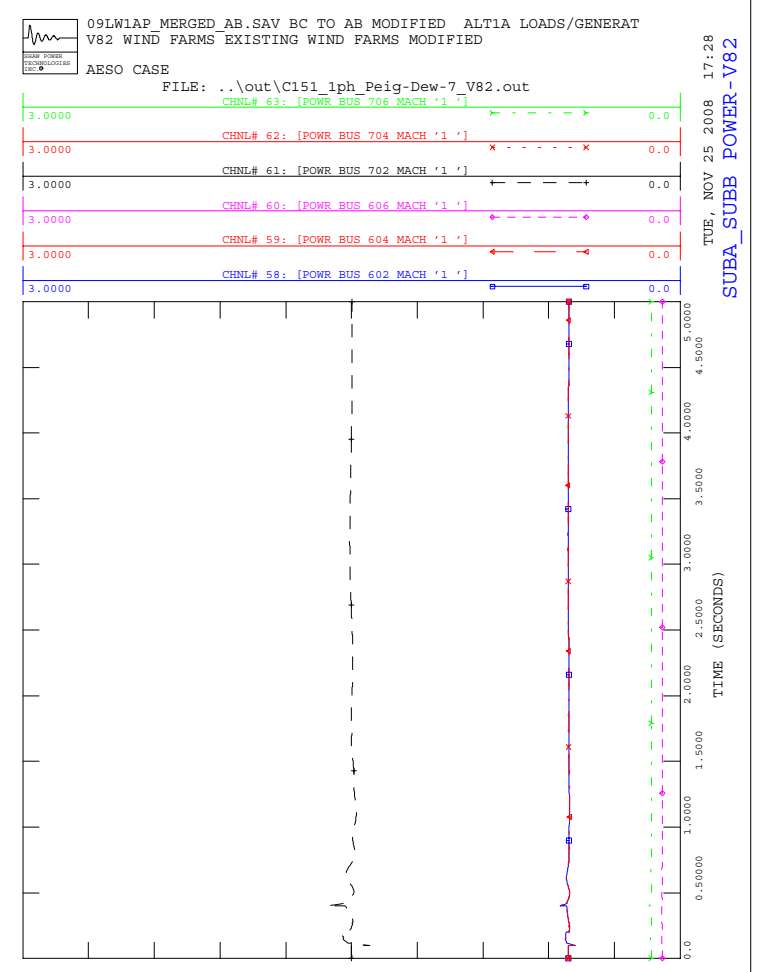
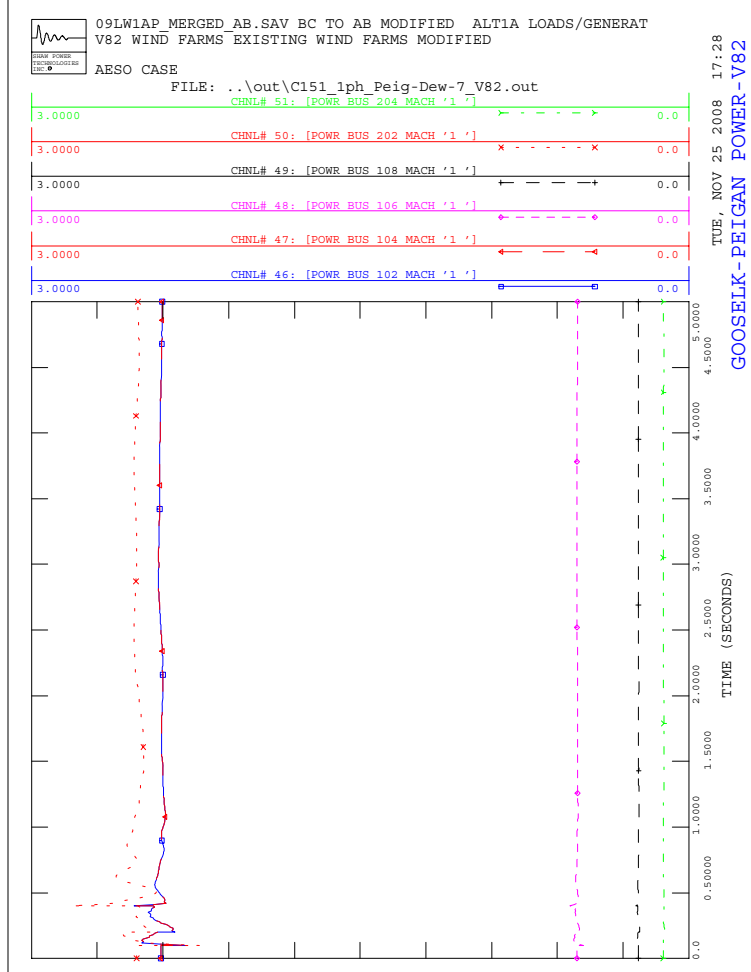
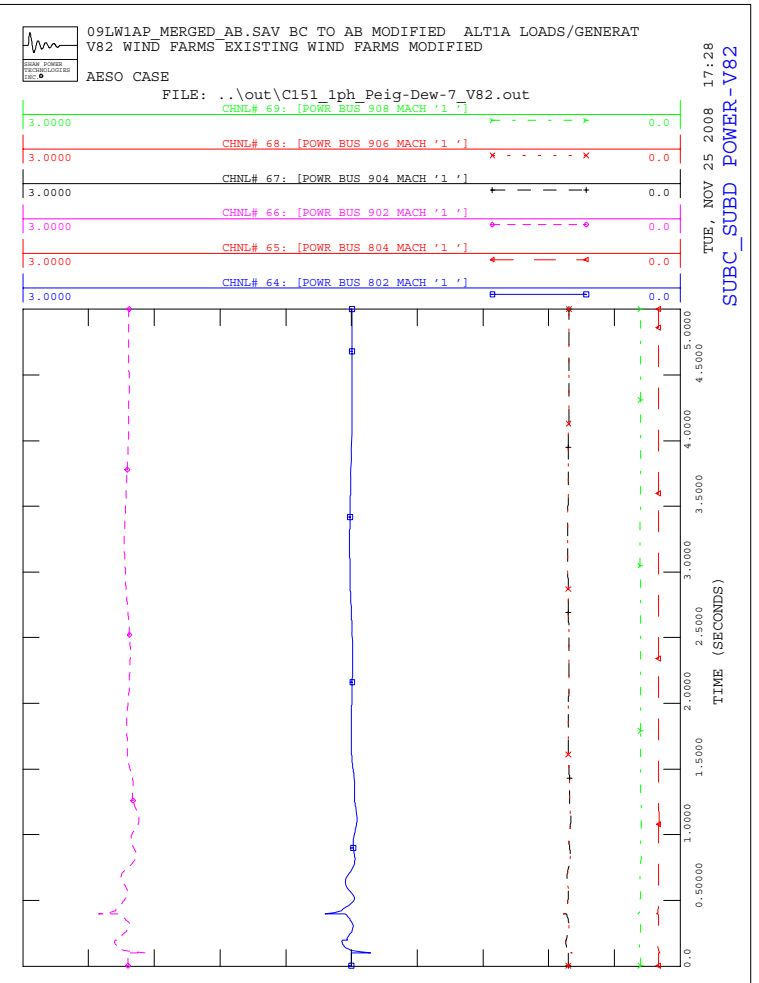
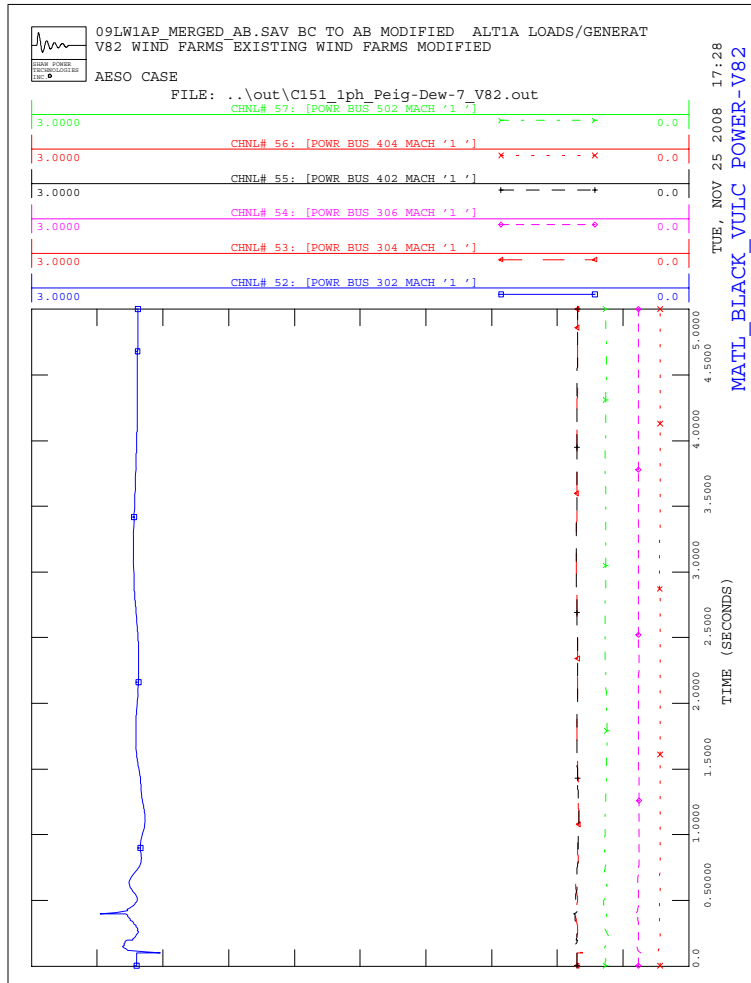
TUE, NOV 25 2008 17:28
LANGDON_FRQ-V82



09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
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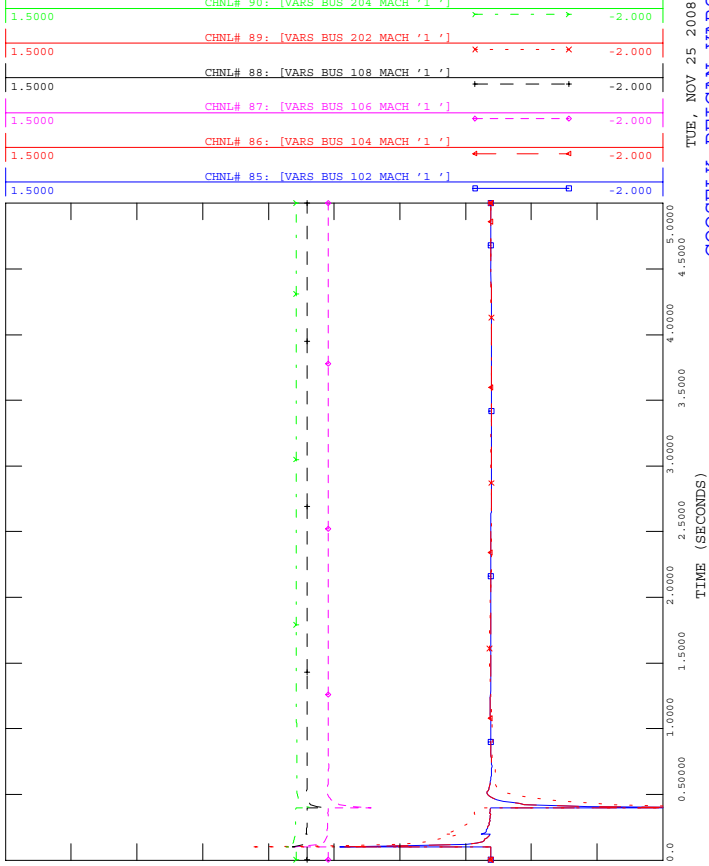
TUE, NOV 25 2008 17:28
AB_BC_TIE_FLOWS-V82





09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALT1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

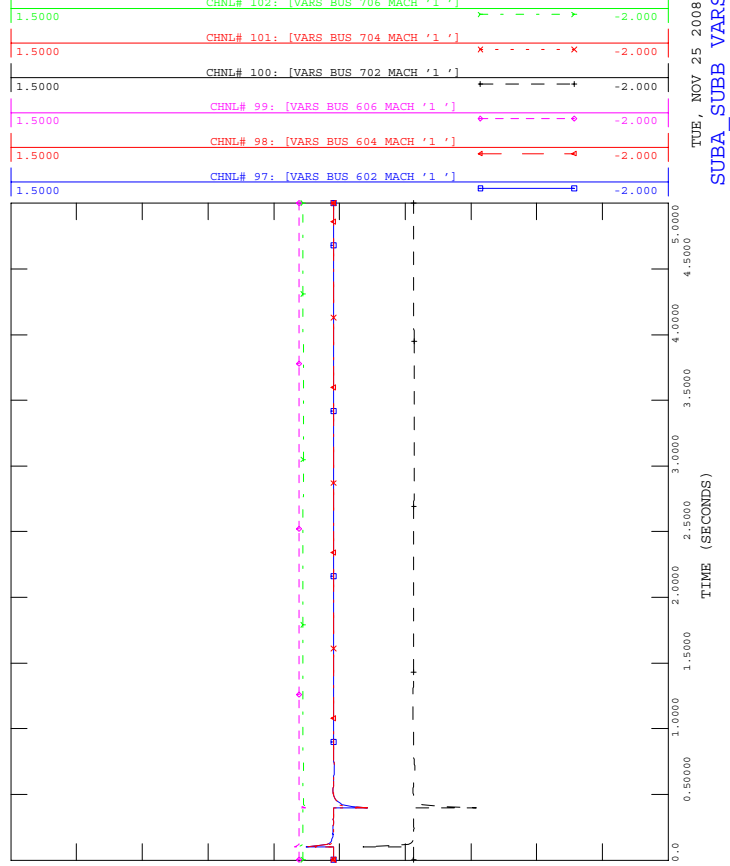
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TUE, NOV 25 2008 17:28
GOOSELK-PEIGAN VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

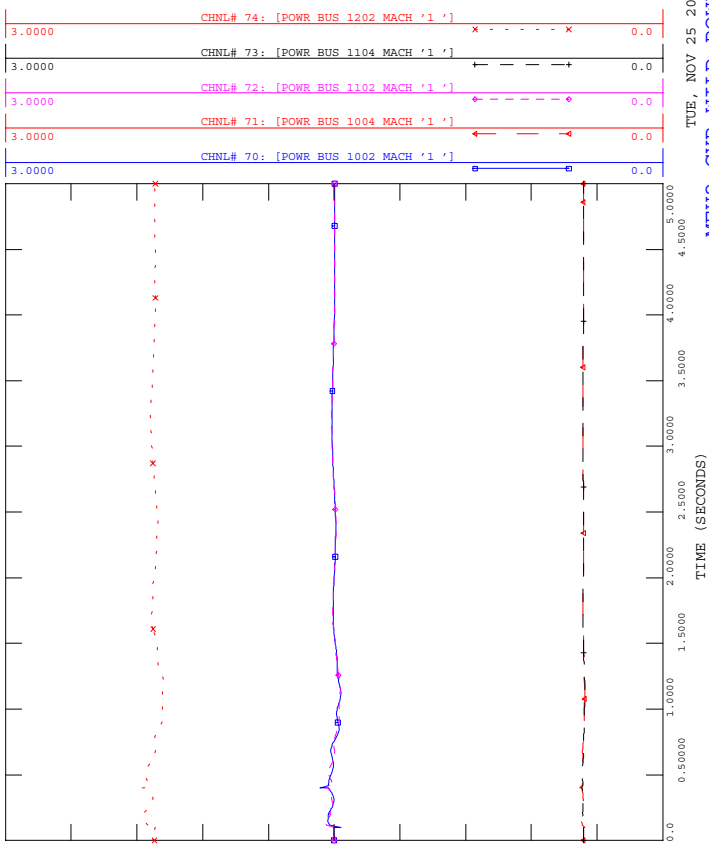
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TUE, NOV 25 2008 17:28
SUBA_SUBB VARS-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

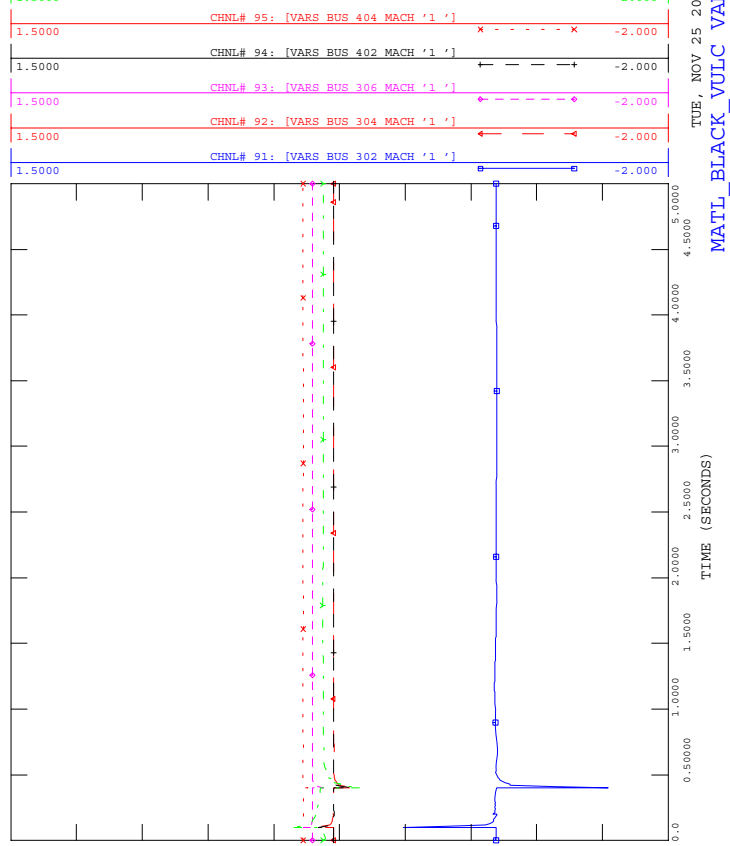
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MEH2_CYP_WILD_POWER-V82

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V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE

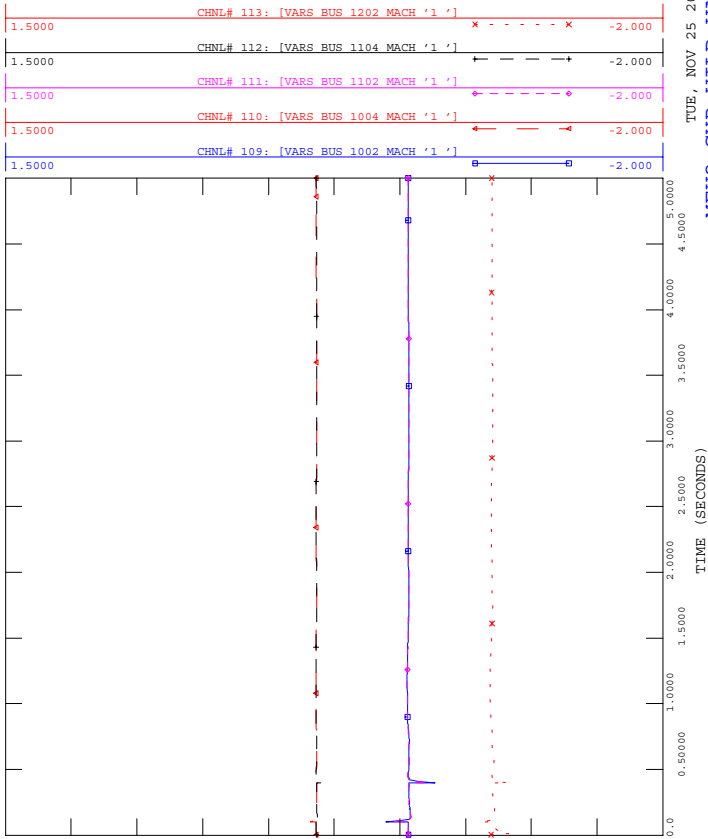
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TUE, NOV 25 2008 17:28
MATL_BLACK_VULC VARS-V82

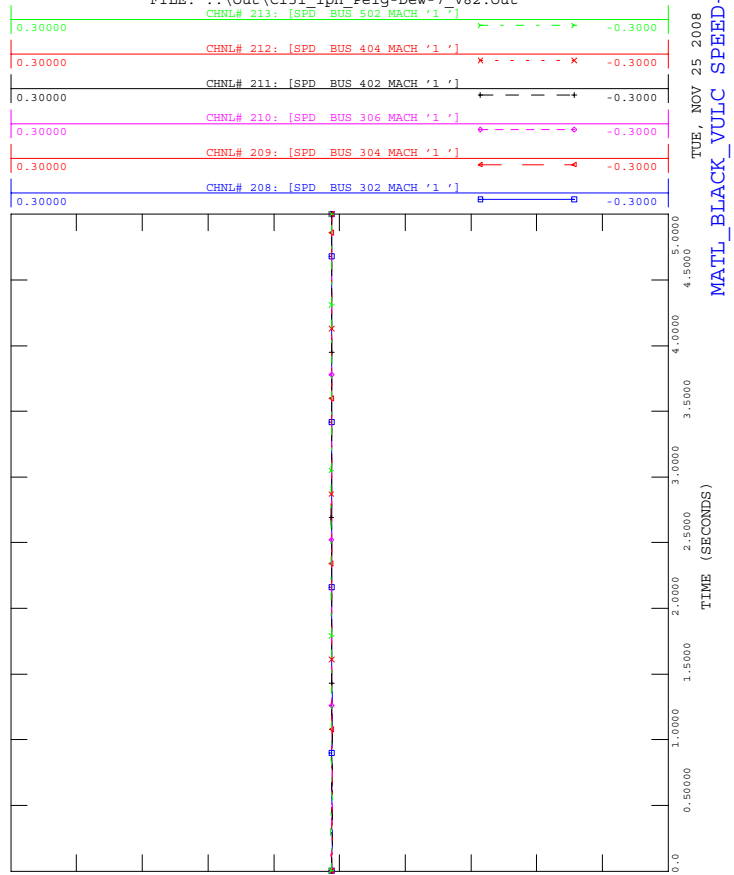
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

FILE: ..\out\C151_1ph_Peig-Dew-7_V82.out



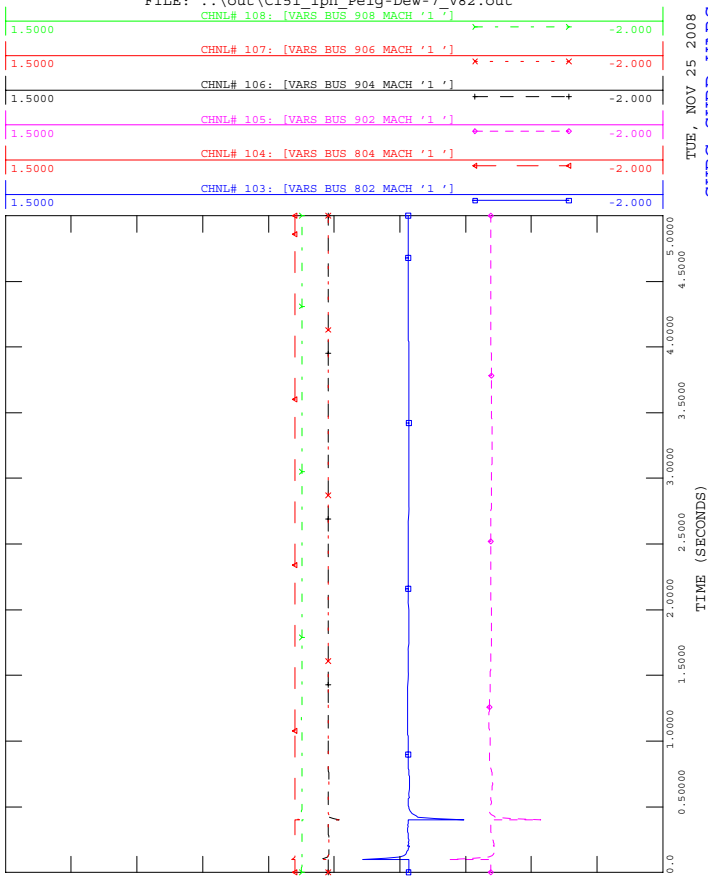
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

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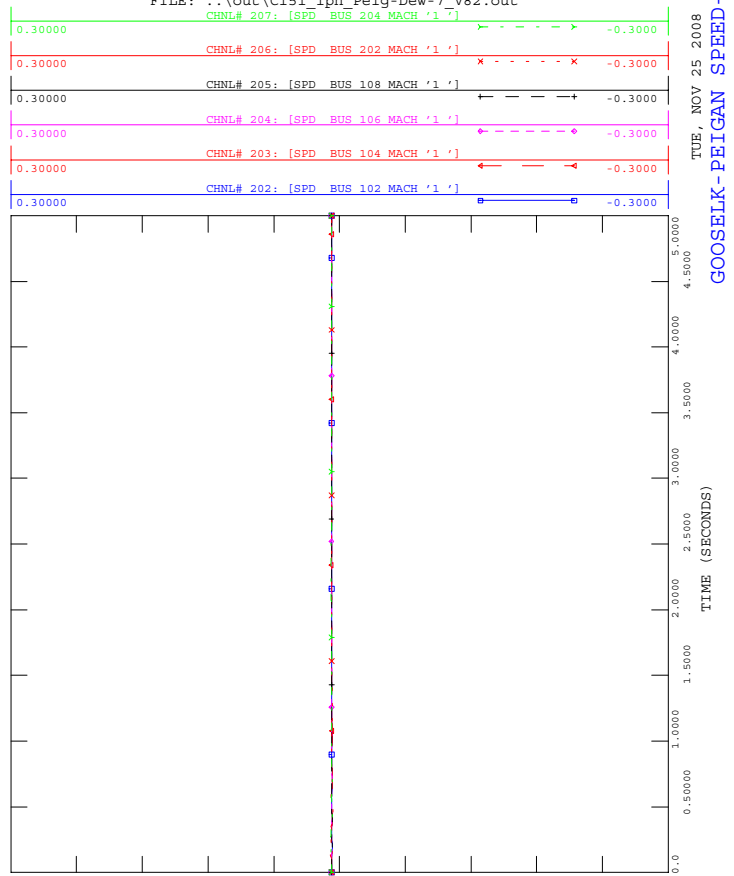
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 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

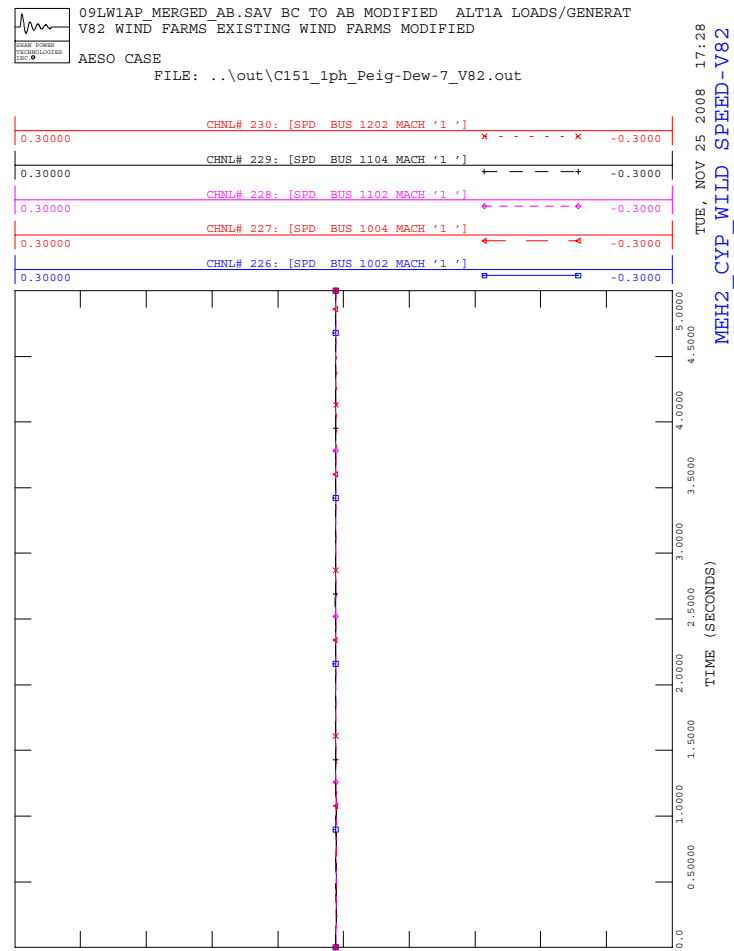
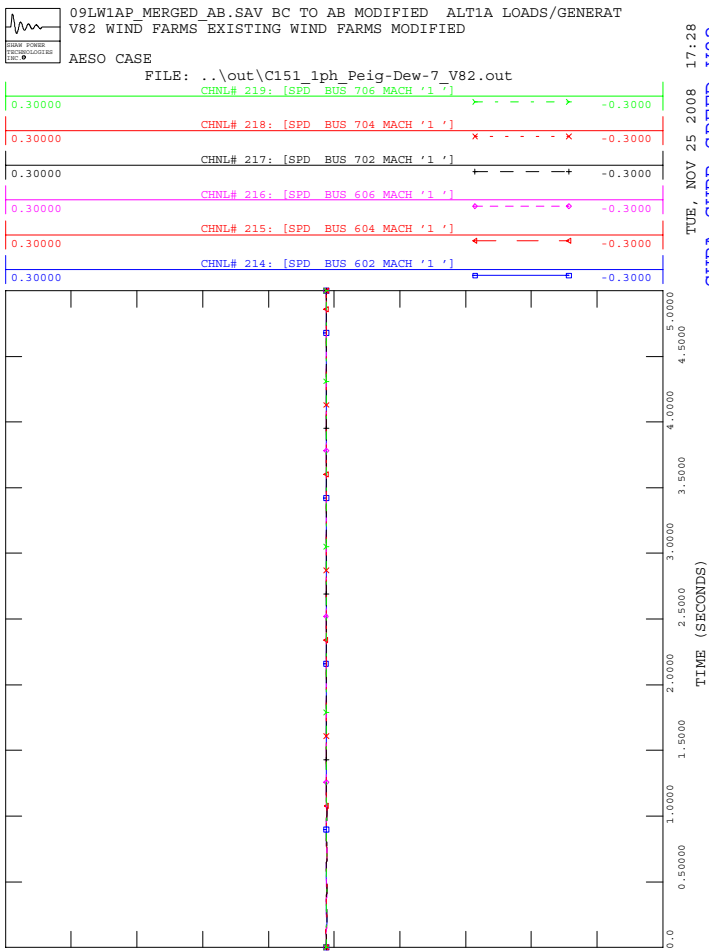
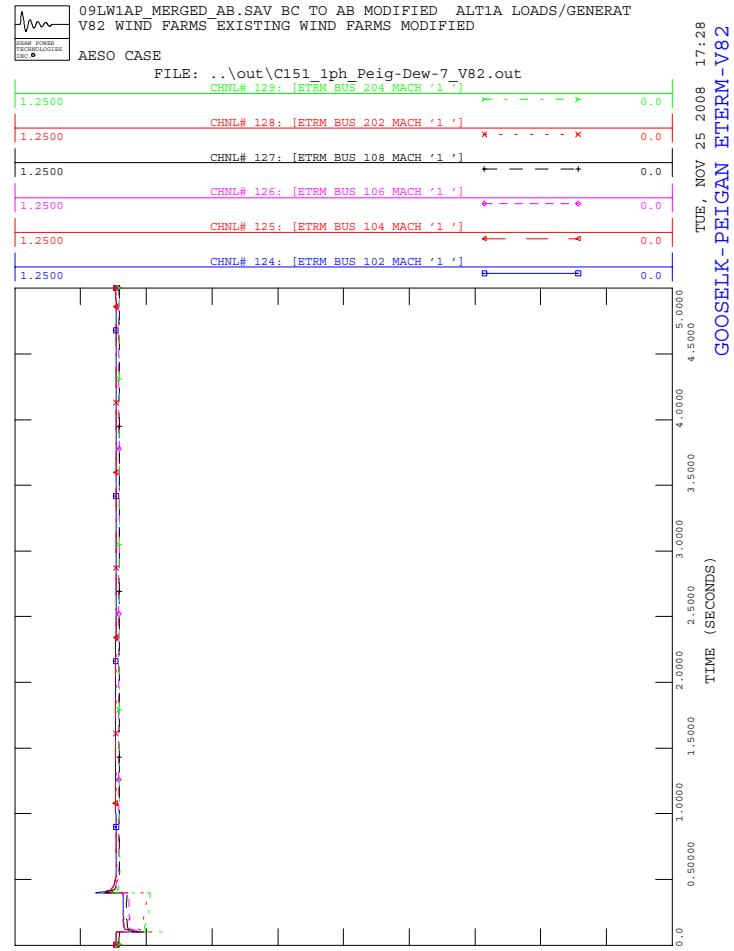
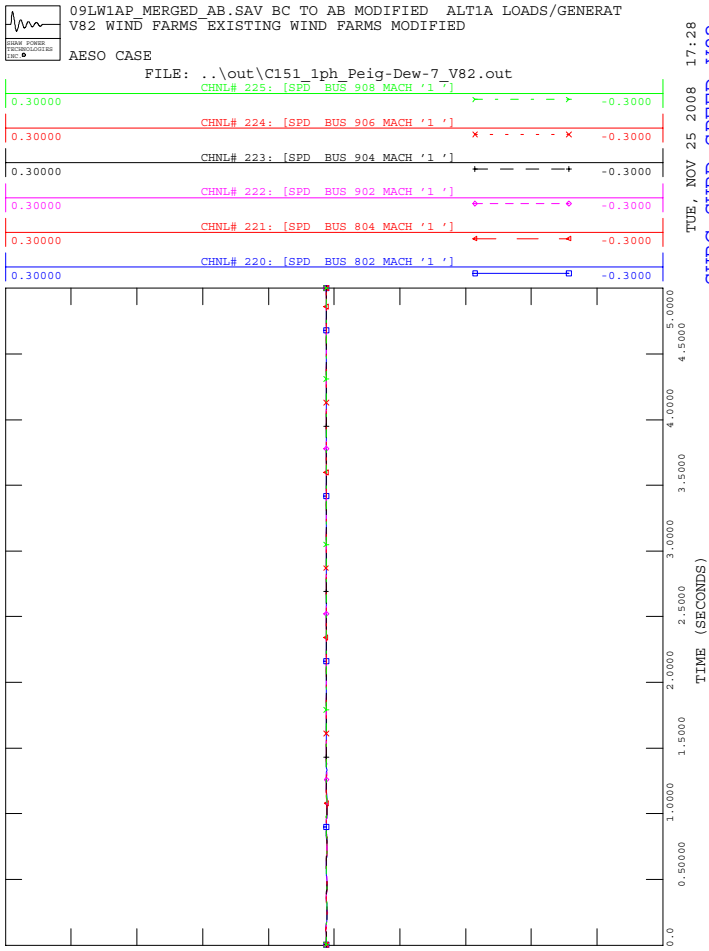
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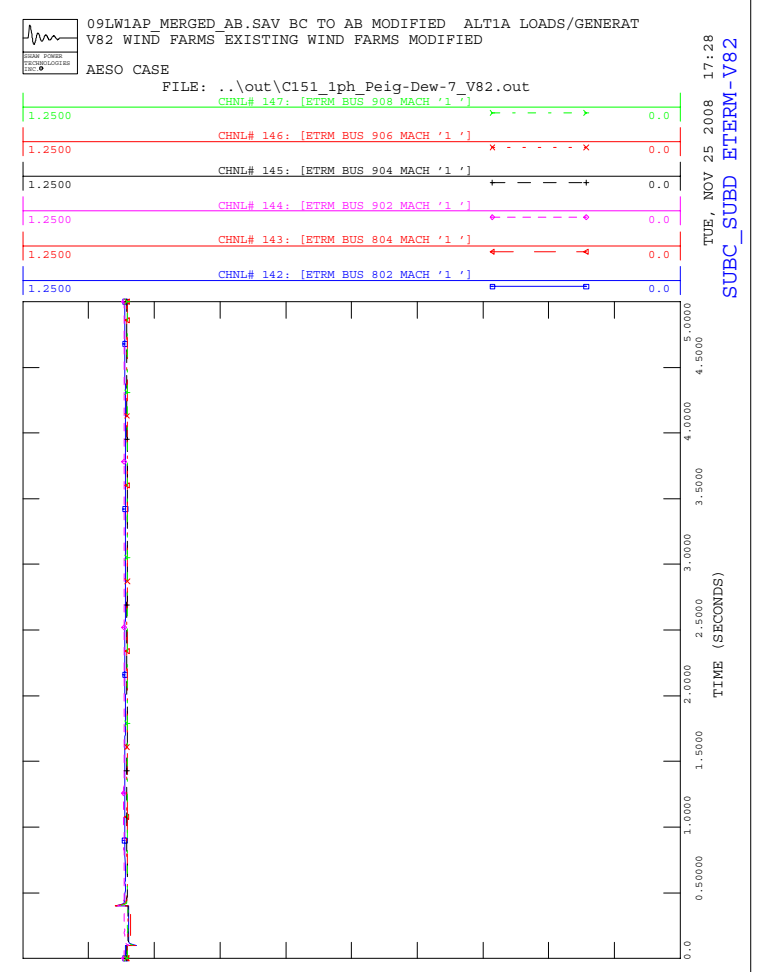
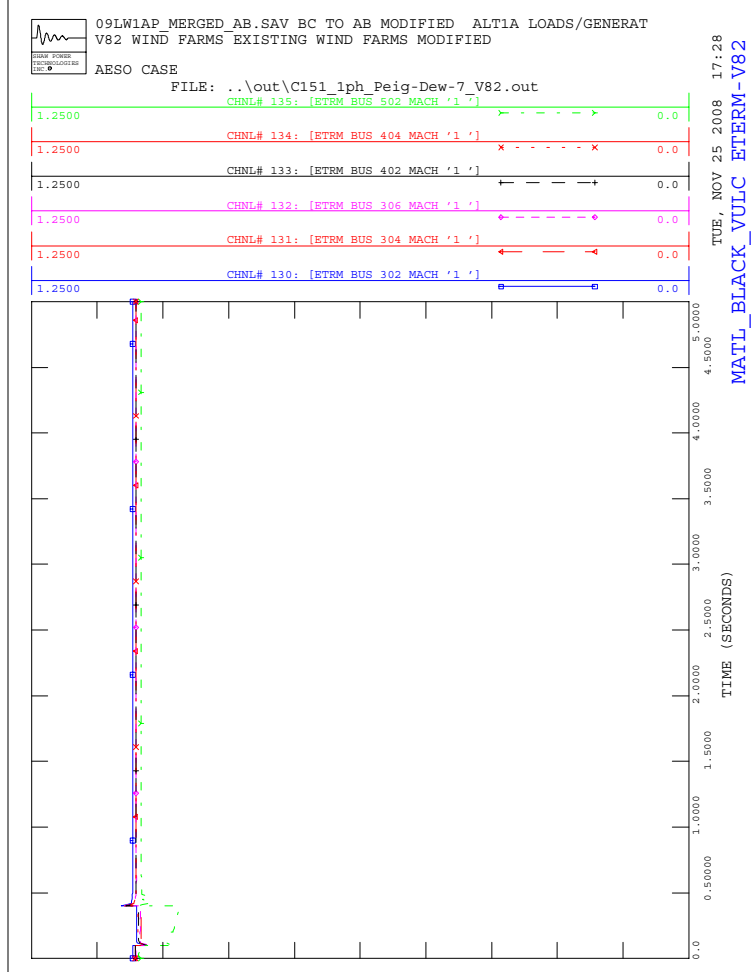
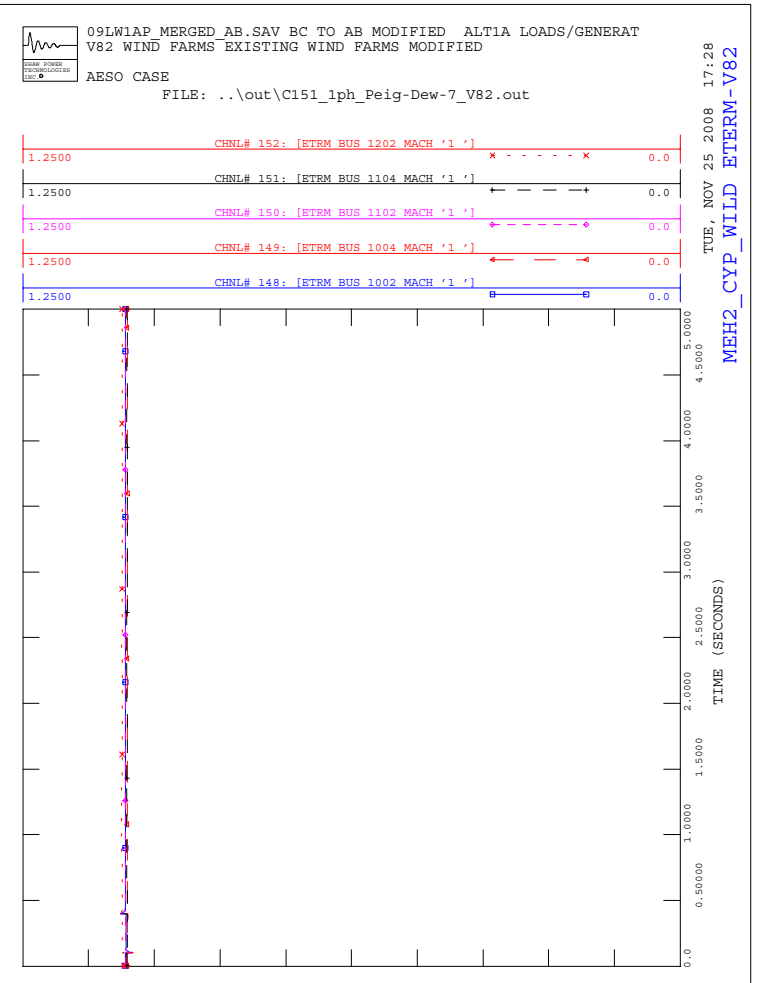
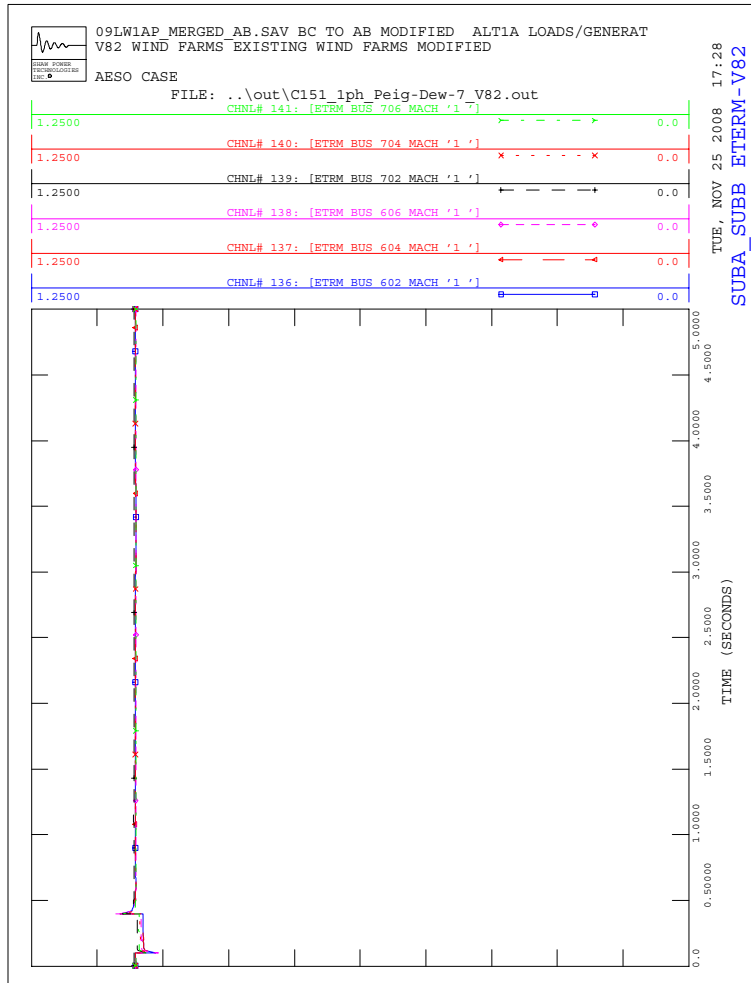


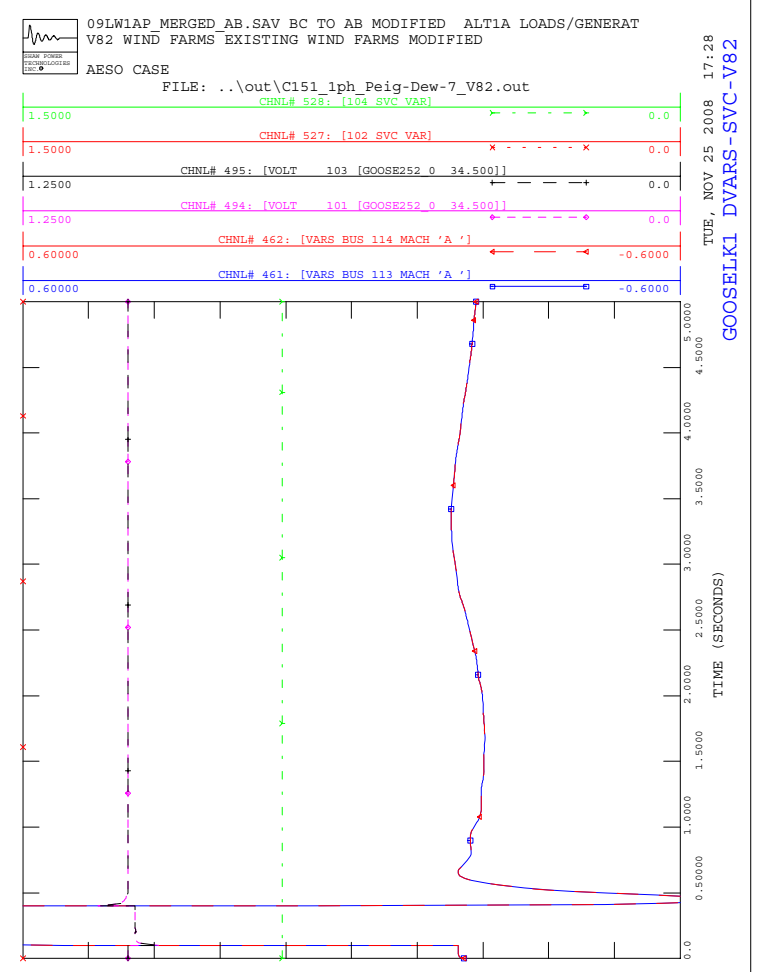
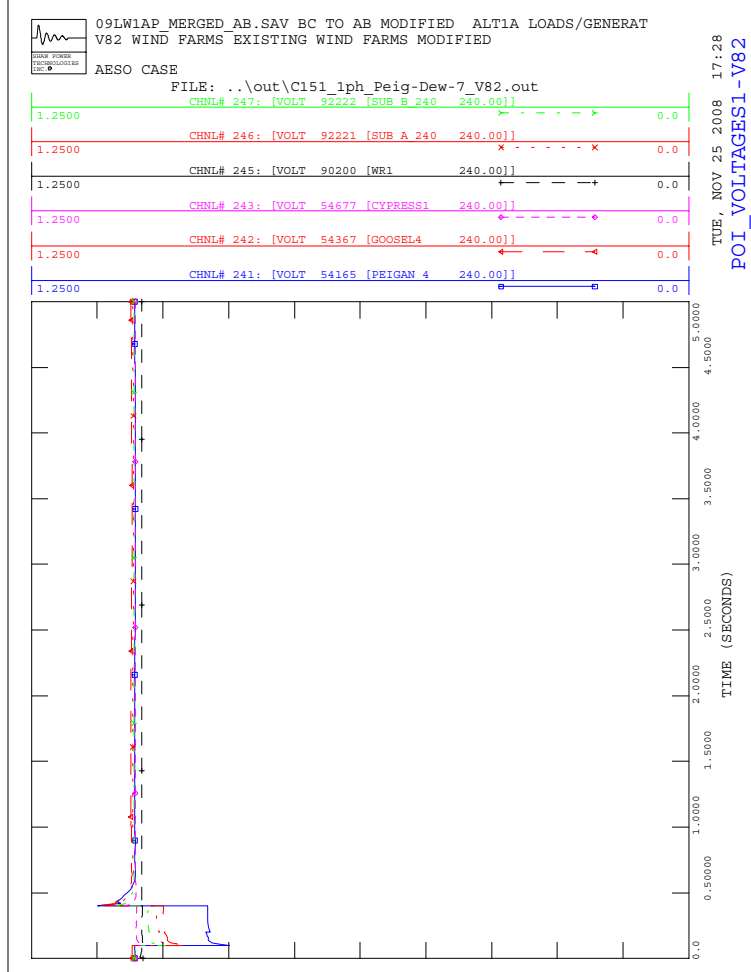
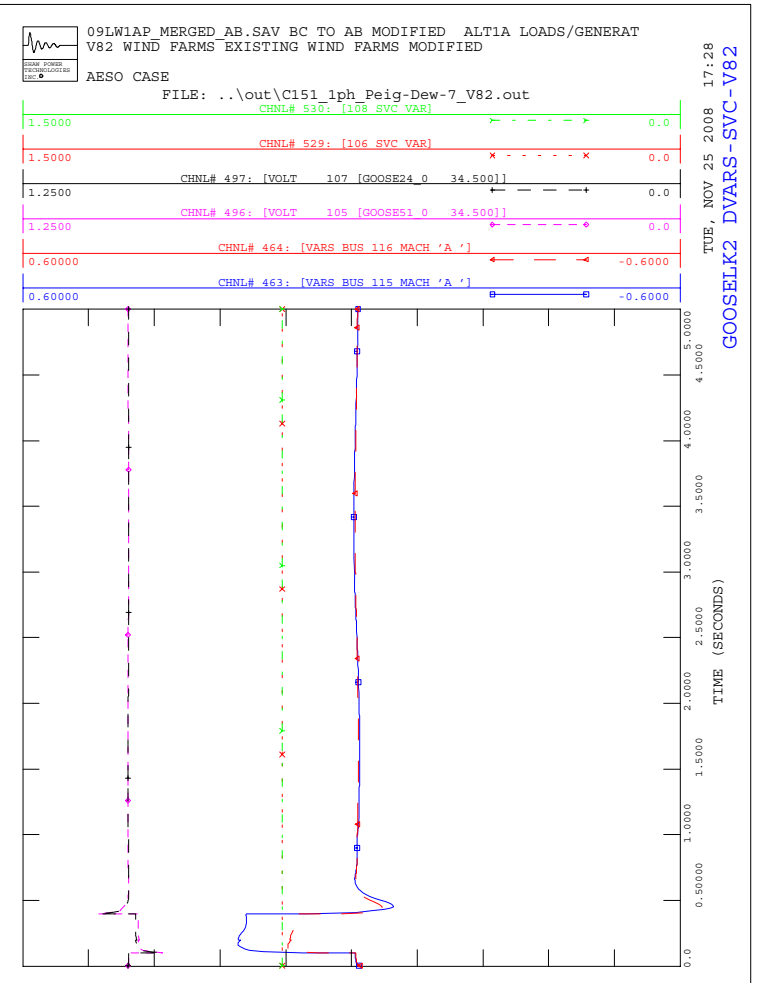
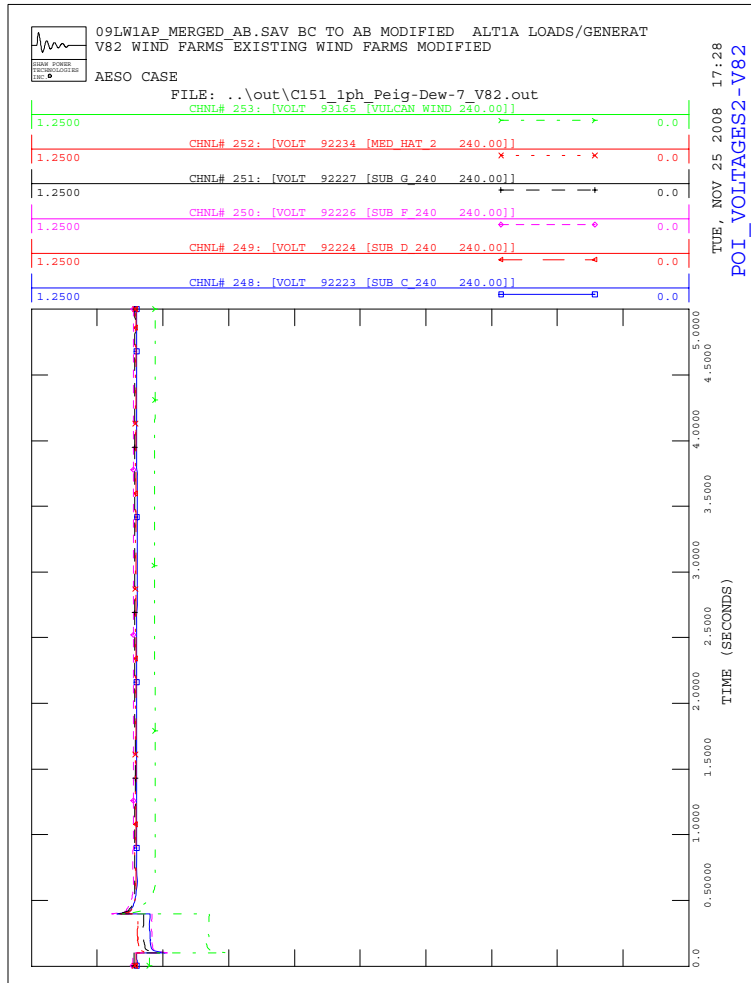
09LWIAP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
 V82 WIND FARMS EXISTING WIND FARMS MODIFIED
 AESO CASE

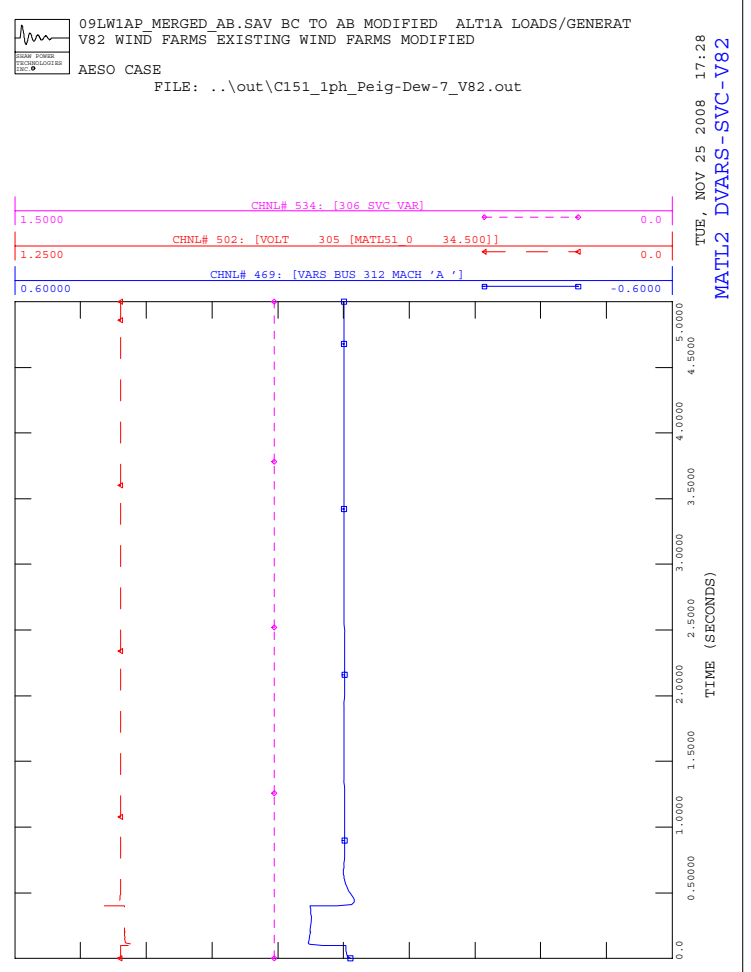
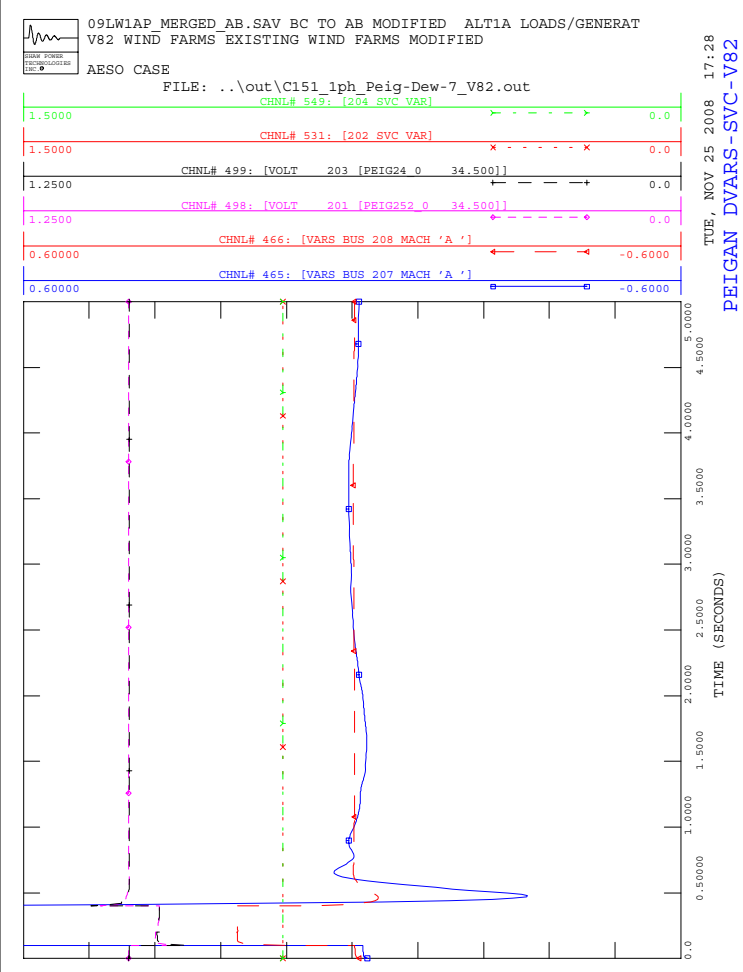
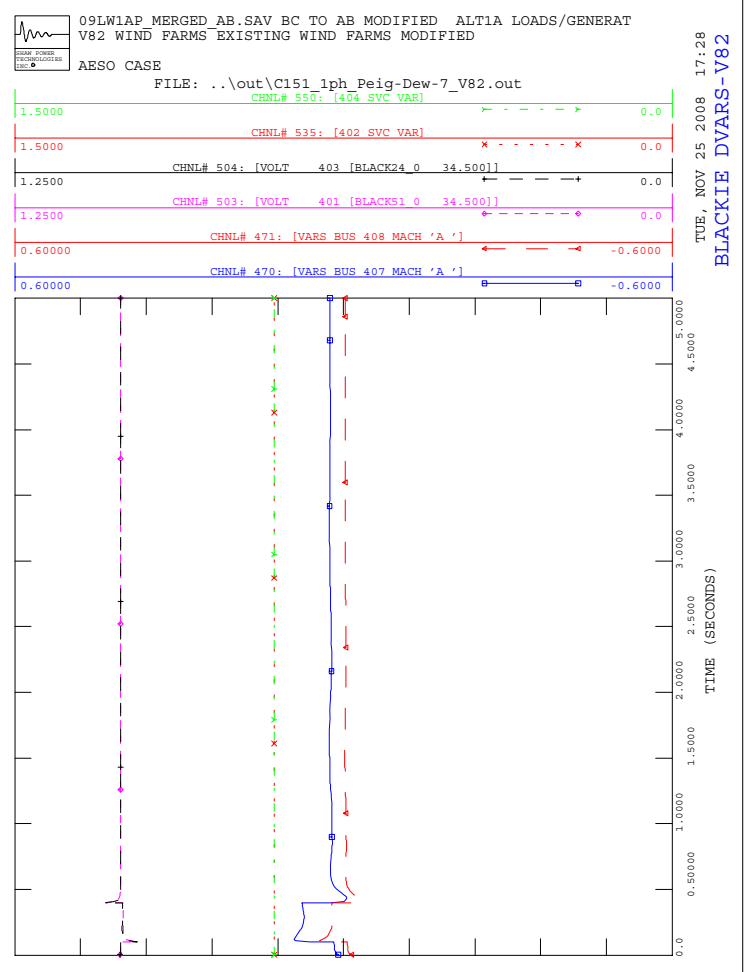
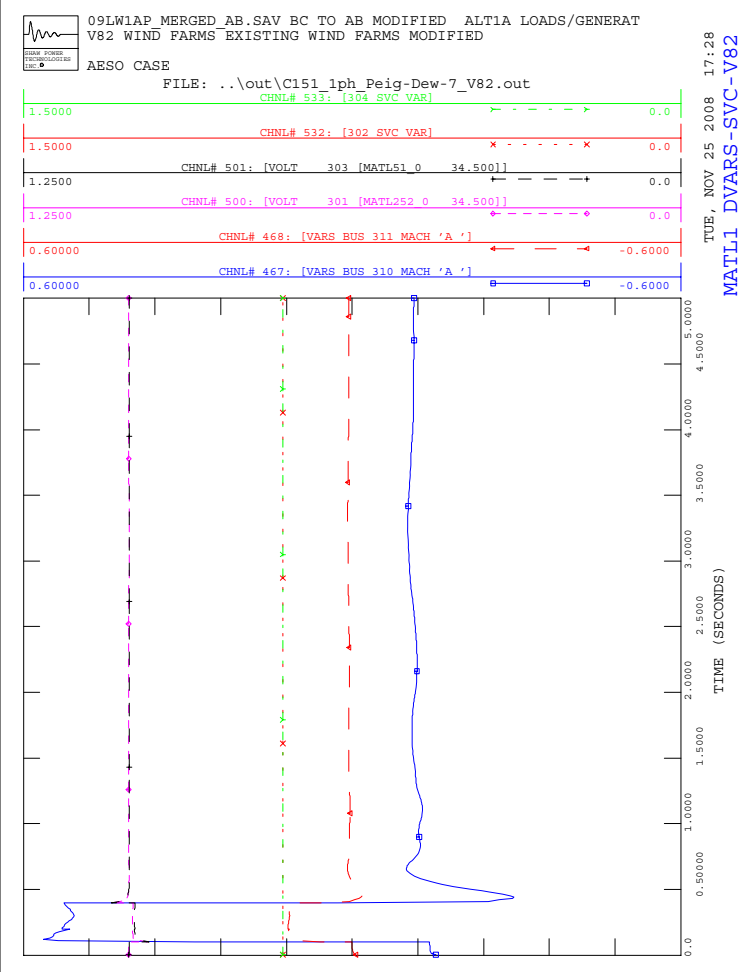
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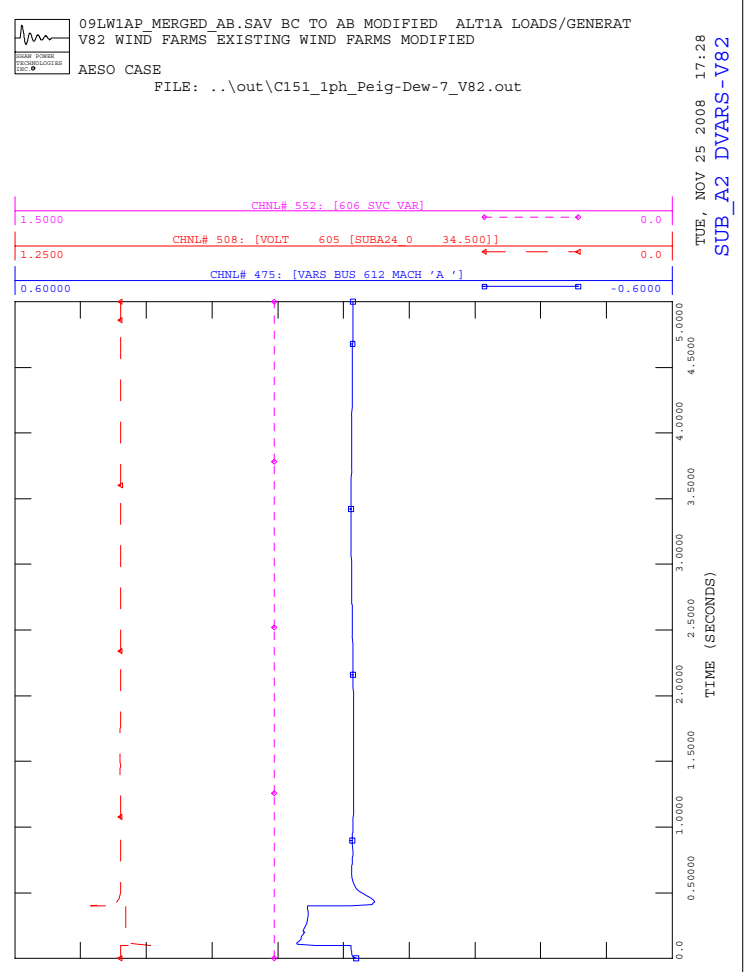
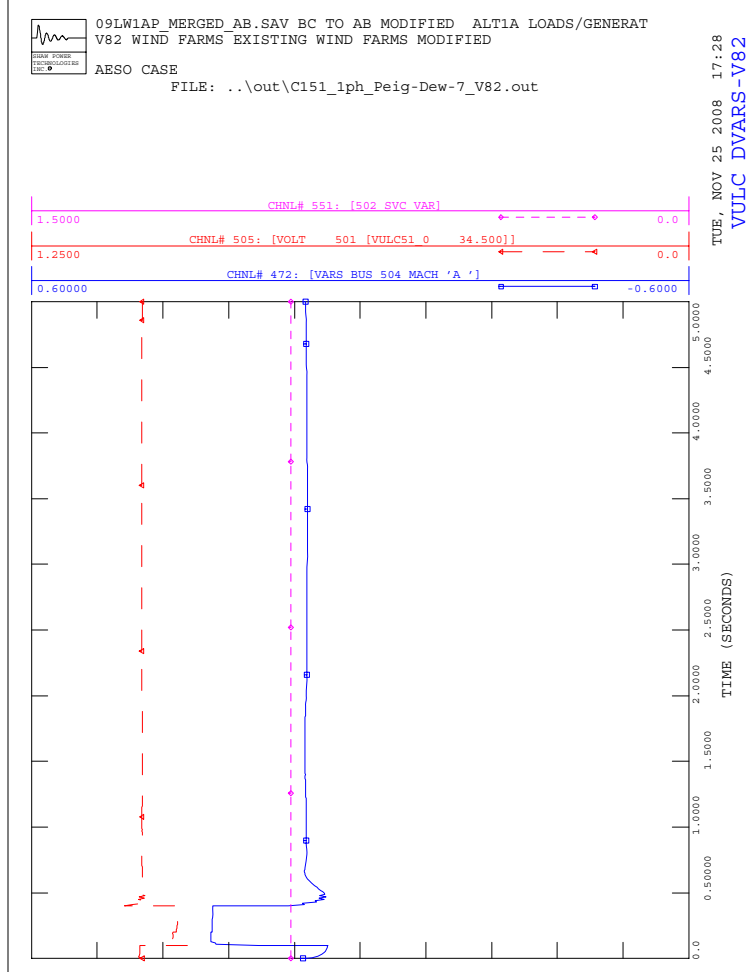
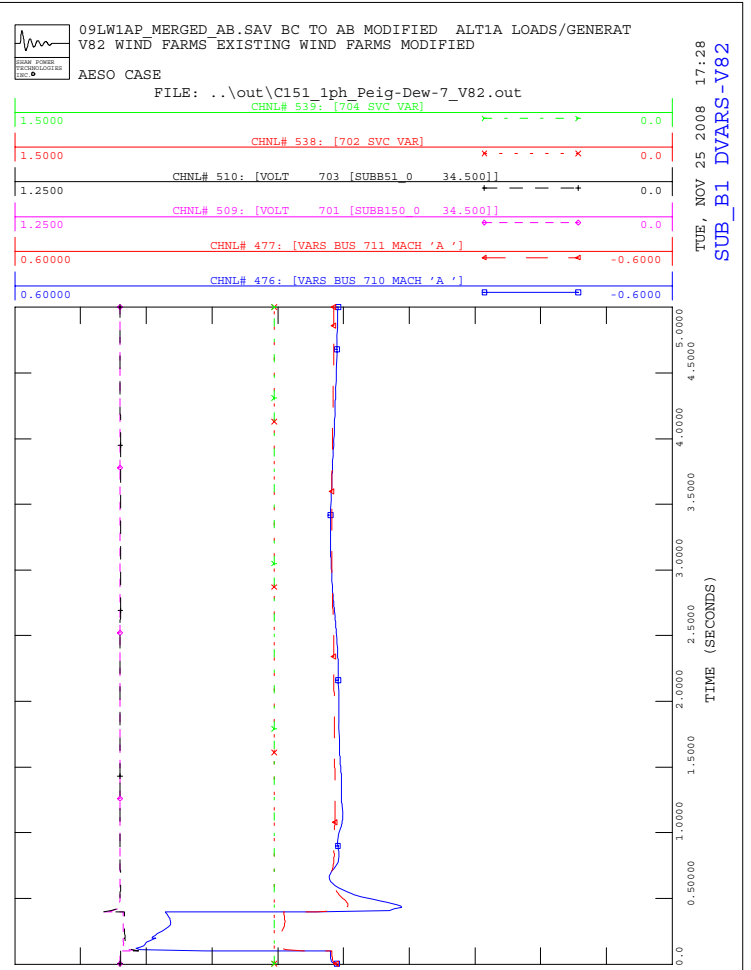
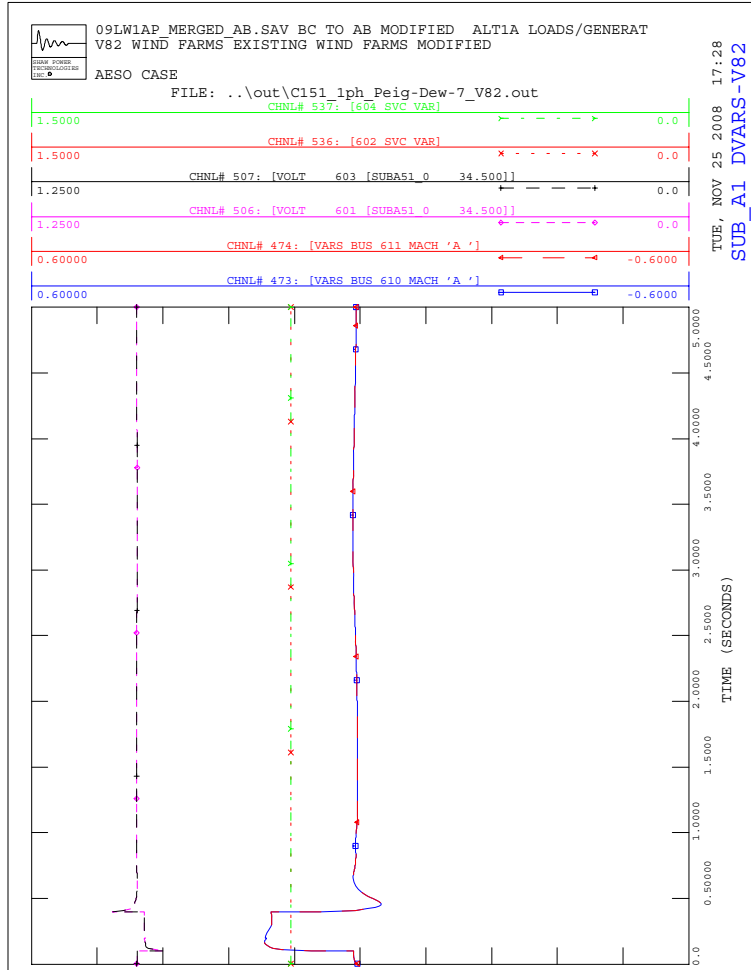


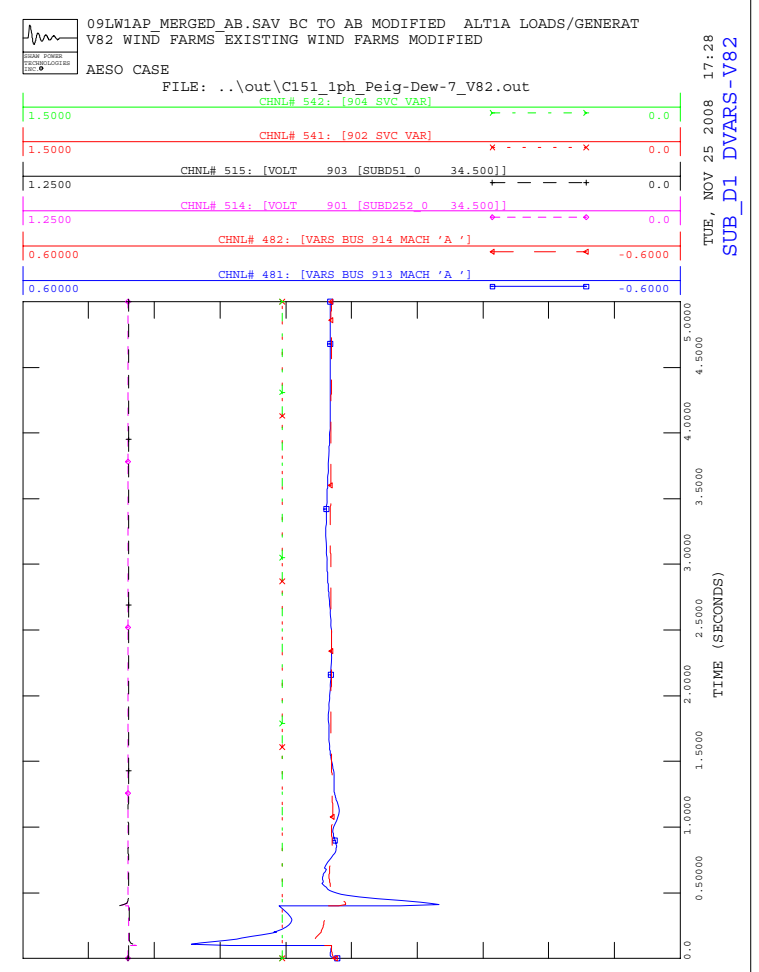
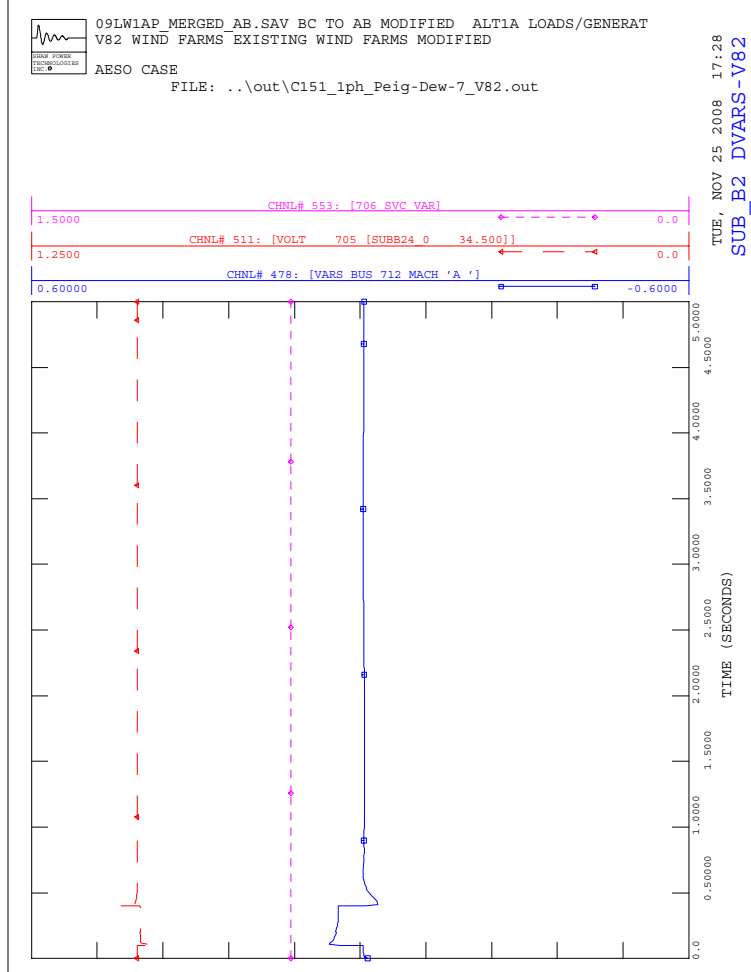
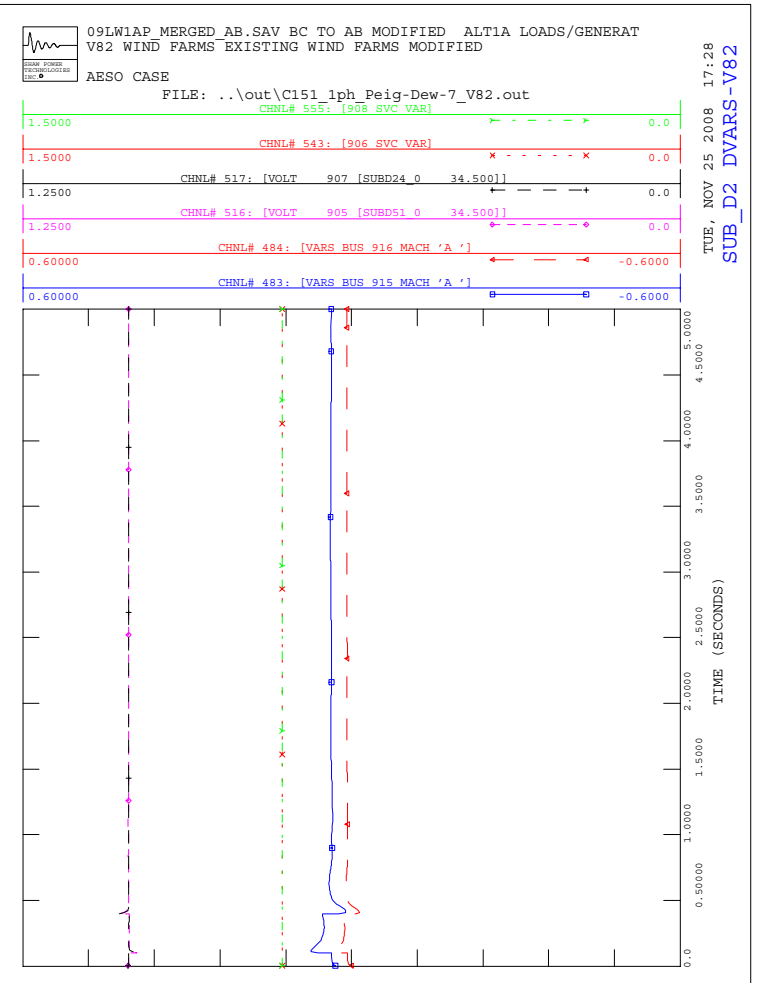
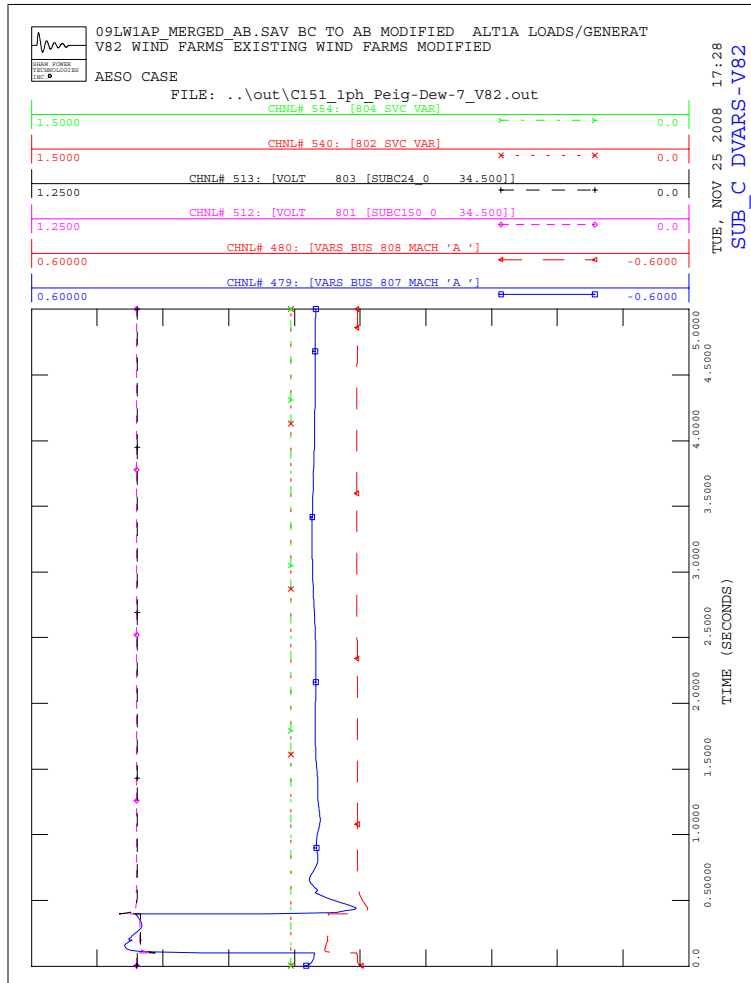


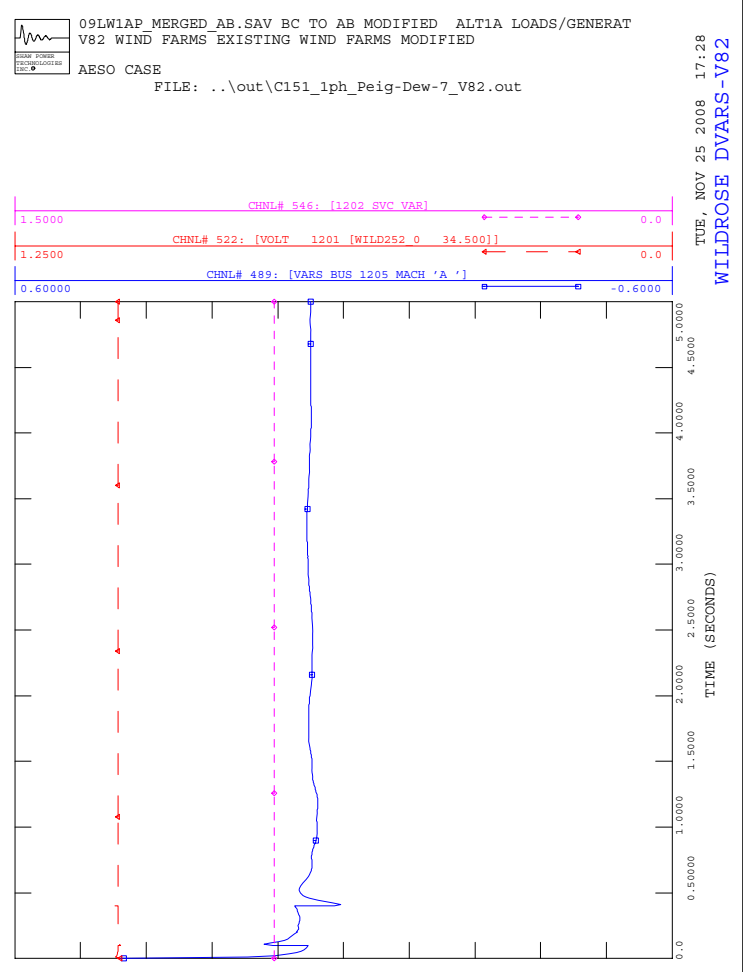
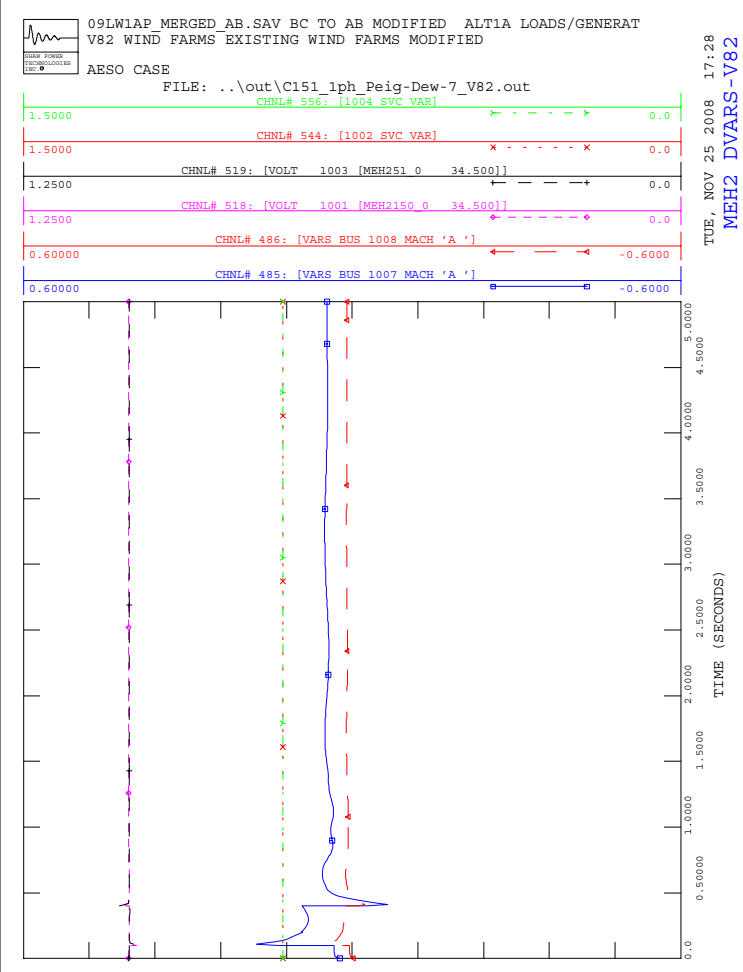
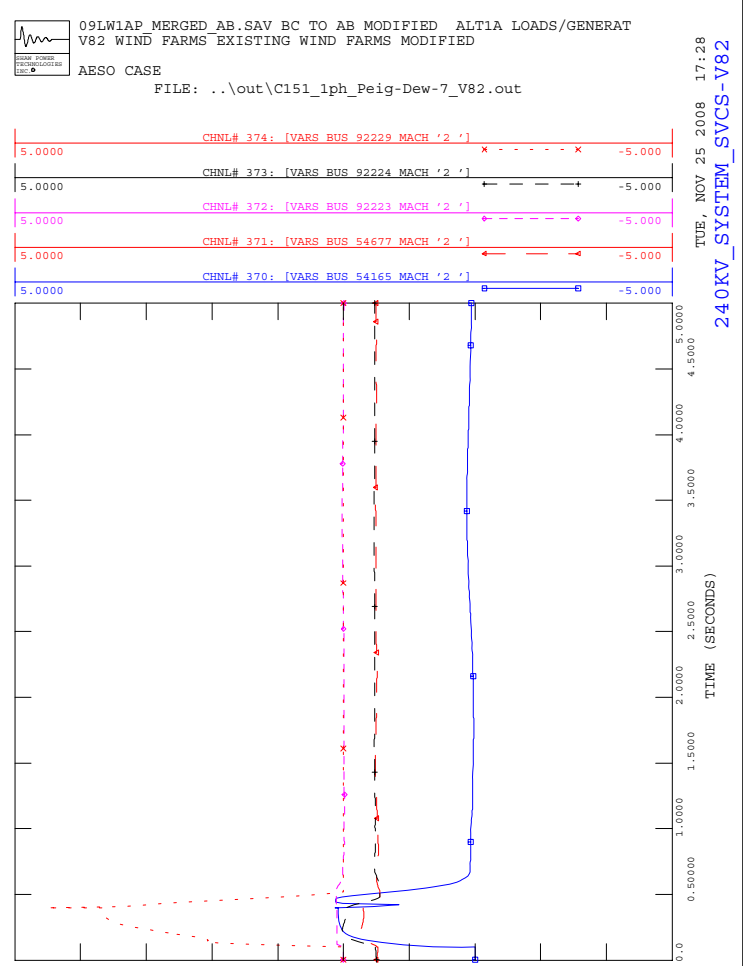
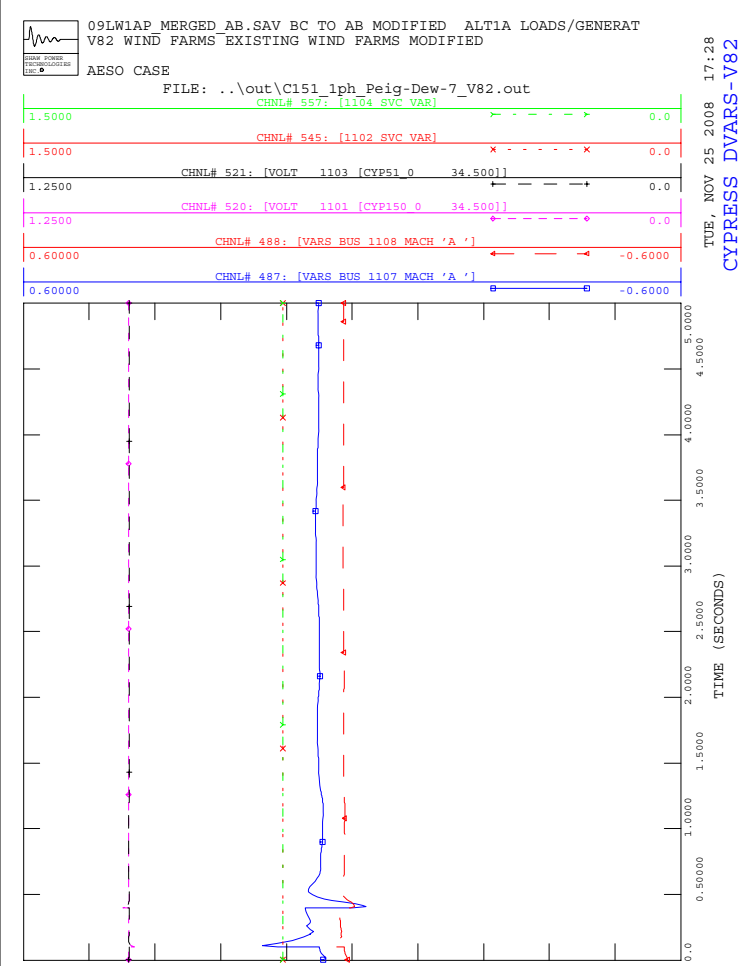








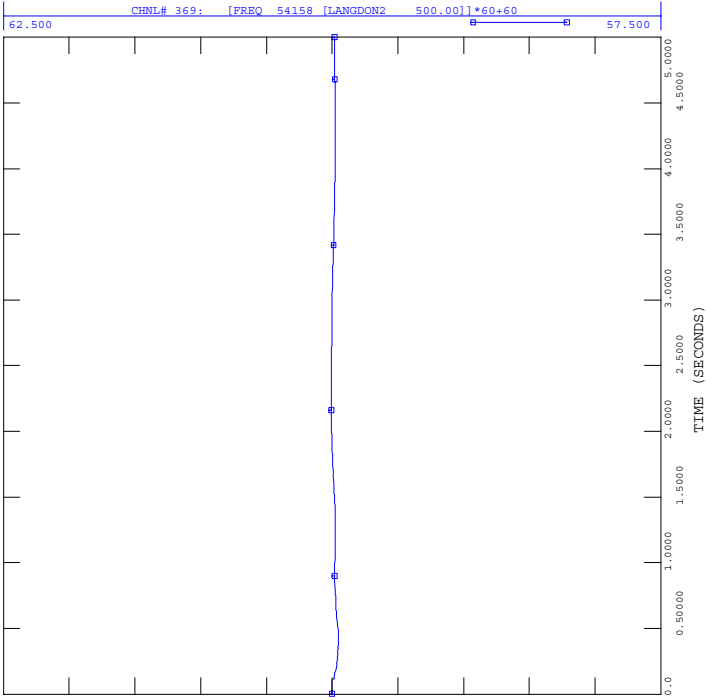






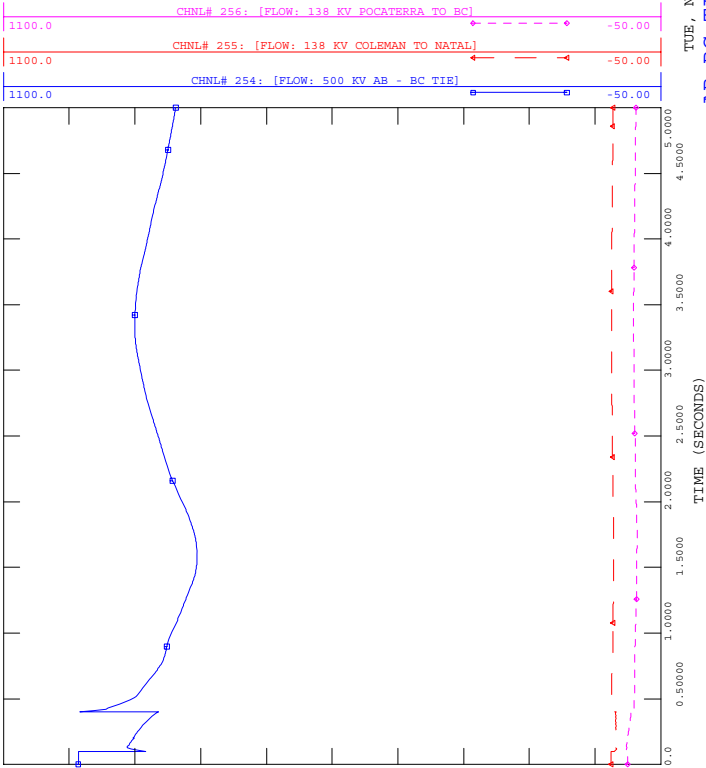
09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C151_1ph_Peig-Dew-7_V82.out

TUE, NOV 25 2008 17:28
LANGDON_FRQ-V82



09LW1AP_MERGED_AB.SAV BC TO AB MODIFIED ALTI1A LOADS/GENERAT
V82 WIND FARMS EXISTING WIND FARMS MODIFIED
ABSO CASE
FILE: ..\out\C151_1ph_Peig-Dew-7_V82.out

TUE, NOV 25 2008 17:28
AB_BC_TIE_FLOWS-V82



Type 1 (Vestas V82) 241 MW Wind Farm Dynamic Data

Vestas V82 Induction Generator Model

102 'USRMDL' '1' 'CIMTSS' 1 1 1 13 6 3 0 1.26196 0.00000 0.80408 4.01336 0.15811 0.00000
0.08727 1.0 0.06 1.2 0.15 0.0 0.0

Vestas V82 Dynamic Reactive Compensation Control

0 'USRMDL' 'V82BPF' 8 1 8 10 0 210 101 101 54367 0 0 0 1 1 3658.0 22.7 83036.6 0.0 1.2 1.1
1.08 0.9 0.8 0.6

Vestas V82 Fixed Capacitor Control

0 'USRMDL' 'V82BFC' 8 1 3 1 0 9 102 1 1 125031.6

Vestas V82 Wind Gust and Ramp

0 'USRMDL' 'V82BWD' 8 0 4 7 0 4 102 '1' 153 1 25.0 999.0 0.0 0.0 999.0 999.0 0.0

Vestas V82 Two-Mass Shaft

0 'USRMDL' 'V82BSH' 8 0 5 0 2 3 102 '1' 0 1 1

Vestas V82 Wind Turbine Aerodynamics

0 'USRMDL' 'V82BAE' 8 0 5 0 1 4 102 '1' 0 1 1

Vestas V82 Pitch Control

0 'USRMDL' 'V82BPC' 8 0 7 4 7 420 102 '1' 0 0 153 1 1 61.0 62.0 1.0 0.0

Vestas V82 Undervoltage/Overvoltage Generator Bus Disconnection Relay Model

0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.15 5.0 0.625 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.4 5.0 1.45 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.6 5.0 2.05 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.9 5.0 3.0 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.0 1.1 1.0 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.0 1.15 0.1 0.08
0 'USRMDL' 'VTGDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 0.0 1.3 0.02 0.08

Vestas V82 Underfrequency/Overfrequency Generator Bus Disconnection Relay Model

0 'USRMDL' 'FRQDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 57.0 66.0 0.1 0.075
0 'USRMDL' 'FRQDCN' 0 2 6 4 0 1 102 102 '1' 0 0 0 54.0 61.0 0.1 0.075

Overcurrent Protection Model

102 'TIOCR1' 0 '1' 1 1 0 0 102 0 '1' 0 0 0 0 0 0.9 0.01 0.9 18.0 4.0 1.0 4.0 0.06 5.0 0.06 25.0
0.06 0.0 0.0

Static Condenser (STATCON) Model (DVAR)

113 'CSTAT' A 1 1 1 1 150 0.010 999 -999 2.67 2.67 0.2 1.2 0.070 0.5 D-VAR MODEL

Type 3 (GE1.5) 241 MW Wind Farm Dynamic Data

GE1.5 Wind Turbine Doubly-Fed (Wound Rotor) Induction Generator

102 'USRMDL' 1 'GEDFA' 1 1 1 13 5 22 0 0.8 0.1714 2.904 0.005 0.1563 0.558 0.0 0.2 0.02 0.02
30.0 0.1 -0.1

GE1.5 Turbine Generator Control Model

102 'USRMDL' 1 'GECNA' 4 0 4 26 10 10 102 0 0 0 0.15 18.0 5.0 0.0 0.0 0.05 2.7 0.54 1.01 0.09
0.296 -0.436 1.11 0.05 0.4 -0.4 5.0 0.0 0.9 1.1 40.0 -0.5 0.4 0.05 0.05 1.0

GE1.5 Wind Gust and Ramp

0 'USRMDL' 0 'WGUSTA' 8 0 2 7 0 3 102 '1' 11.7 9999.0 5.0 30.0 9999.0 9999.0 30.0

GE1.5 Two Mass Shaft

0 'USRMDL' 0 'W2MSFA' 8 0 3 5 2 3 102 '1' 0 1.35 1.0 7.784 3 72.0

GE1.5 Wind Turbine Aerodynamics

0 'USRMDL' 0 'GEAERA' 8 0 3 12 1 4 102 '1' 0 11.7 20.0 0.0 27.0 -4.0 0.0 1.225 35.25 72.0
1200.0 1500.0 1.667

GE1.5 Pitch Control

0 'USRMDL' 0 'GEPCHA' 8 0 3 10 3 3 102 '1' 0 0.3 150.0 25.0 3.0 30.0 -4.0 27.0 -10.0 10.0 0.91

GE1.5 Undervoltage/Overvoltage Generator Bus Disconnection Relay Model

0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.15 5.0 0.625 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.4 5.0 1.45 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.6 5.0 2.05 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.9 5.0 3.0 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.0 1.1 1.0 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.0 1.15 0.1 0.08
0 'USRMDL' 0 'VTGTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 0.0 1.3 0.02 0.08

GE1.5 Underfrequency/Overfrequency Generator Bus Disconnection Relay Model

0 'USRMDL' 0 'FRQTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 56.5 66.0 0.02 0.08
0 'USRMDL' 0 'FRQTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 57.5 66.0 10.0 0.08
0 'USRMDL' 0 'FRQTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 54.0 61.5 30.0 0.08
0 'USRMDL' 0 'FRQTPA' 0 2 6 4 0 1 54367 102 '1' 0 0 0 54.0 62.5 0.02 0.08