

ANEXO 27

RESULTADOS DE ESTABILIDAD TRANSITORIA



de

ÍNDICE GENERAL

I. Año 2008

- 1) Falla y Apertura de un circuito de Pacora – Panamá II
- 2) Falla y Apertura de un circuito de Llano Sánchez – Panamá II
- 3) Falla y Apertura de un circuito de Guasquitas - Veladero
- 4) Falla y Apertura de un circuito de Fortuna - Guasquitas
- 5) Falla y Apertura de un circuito de Mata de Nance - Veladero
- 6) Falla y Apertura de un circuito de Santa Rita – Panamá II

II. Año 2009

1. Falla y Apertura de un circuito de Pacora – Panamá II
2. Falla y Apertura de un circuito de Llano Sánchez – Panamá II
3. Falla y Apertura de un circuito de Guasquitas - Veladero
4. Falla y Apertura de un circuito de Fortuna - Guasquitas
5. Falla y Apertura de un circuito de Mata de Nance - Veladero
6. Falla y Apertura de un circuito de Santa Rita – Panamá II



de

III. Año 2010

1. Falla y Apertura de un circuito de Pacora – Panamá II
2. Falla y Apertura de un circuito de Llano Sánchez – Panamá II
3. Falla y Apertura de un circuito de Guasquitas - Veladero
4. Falla y Apertura de un circuito de Fortuna - Guasquitas
5. Falla y Apertura de un circuito de Mata de Nance - Veladero
6. Falla y Apertura de un circuito de Santa Rita – Panamá II

IV. Año 2011

- 1) Falla y Apertura de un circuito de Pacora – Panamá II
- 2) Falla y Apertura de un circuito de Llano Sánchez – Panamá II
- 3) Falla y Apertura de un circuito de Guasquitas - Veladero
- 4) Falla y Apertura de un circuito de Fortuna - Guasquitas
- 5) Falla y Apertura de un circuito de Mata de Nance - Veladero
- 6) Falla y Apertura de un circuito de Santa Rita – Panamá II



de

V. Año 2012

1. Falla y Apertura de un circuito de Pacora – Panamá II
2. Falla y Apertura de un circuito de Llano Sánchez – Panamá II
3. Falla y Apertura de un circuito de Guasquitas - Veladero
4. Falla y Apertura de un circuito de Fortuna - Guasquitas
5. Falla y Apertura de un circuito de Mata de Nance - Veladero
6. Falla y Apertura de un circuito de Santa Rita – Panamá II

VI. Año 2016

- 1) Falla y Apertura de un circuito de Pacora – Panamá II
- 2) Falla y Apertura de un circuito de Llano Sánchez – Panamá II
- 3) Falla y Apertura de un circuito de Guasquitas - Veladero
- 4) Falla y Apertura de un circuito de Fortuna - Guasquitas
- 5) Falla y Apertura de un circuito de Mata de Nance - Veladero
- 6) Falla y Apertura de un circuito de Santa Rita – Panamá II



de

VII. Año 2021

- 1) Falla y Apertura de un circuito de Pacora – Panamá II
- 2) Falla y Apertura de un circuito de Llano Sánchez – Chorrera
- 3) Falla y Apertura de un circuito de Guasquitas - Veladero
- 4) Falla y Apertura de un circuito de Fortuna - Guasquitas
- 5) Falla y Apertura de un circuito de Mata de Nance - Veladero
- 6) Falla y Apertura de un circuito de Santa Rita – Panamá II



de

2008



de

**AÑO 2008 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA – PANAMA II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8
Caso 3: REGMHTTLA8**

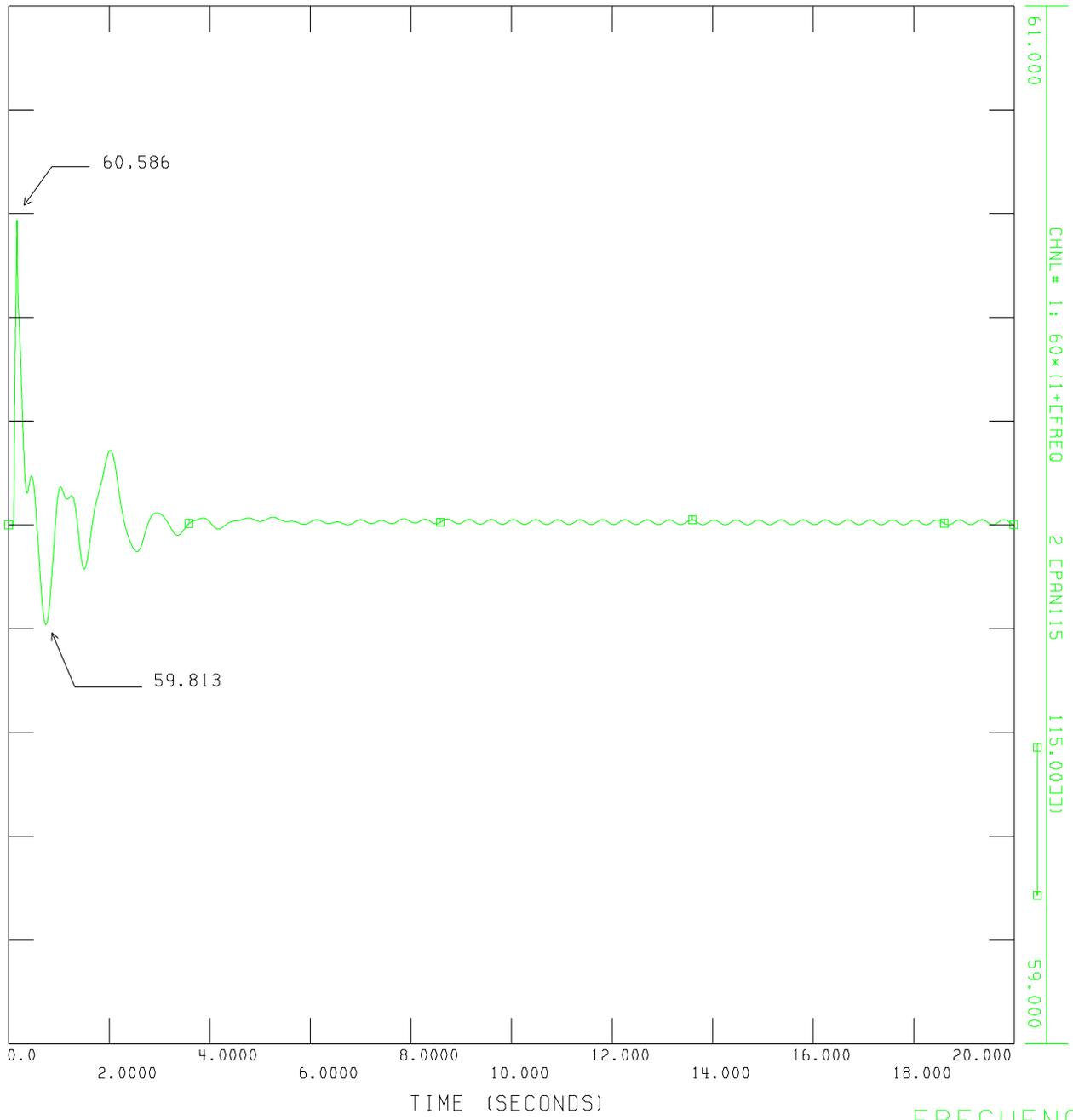


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SAT, MAY 24 2008 15:21

FRECUENCIA PANAMA 115 KV

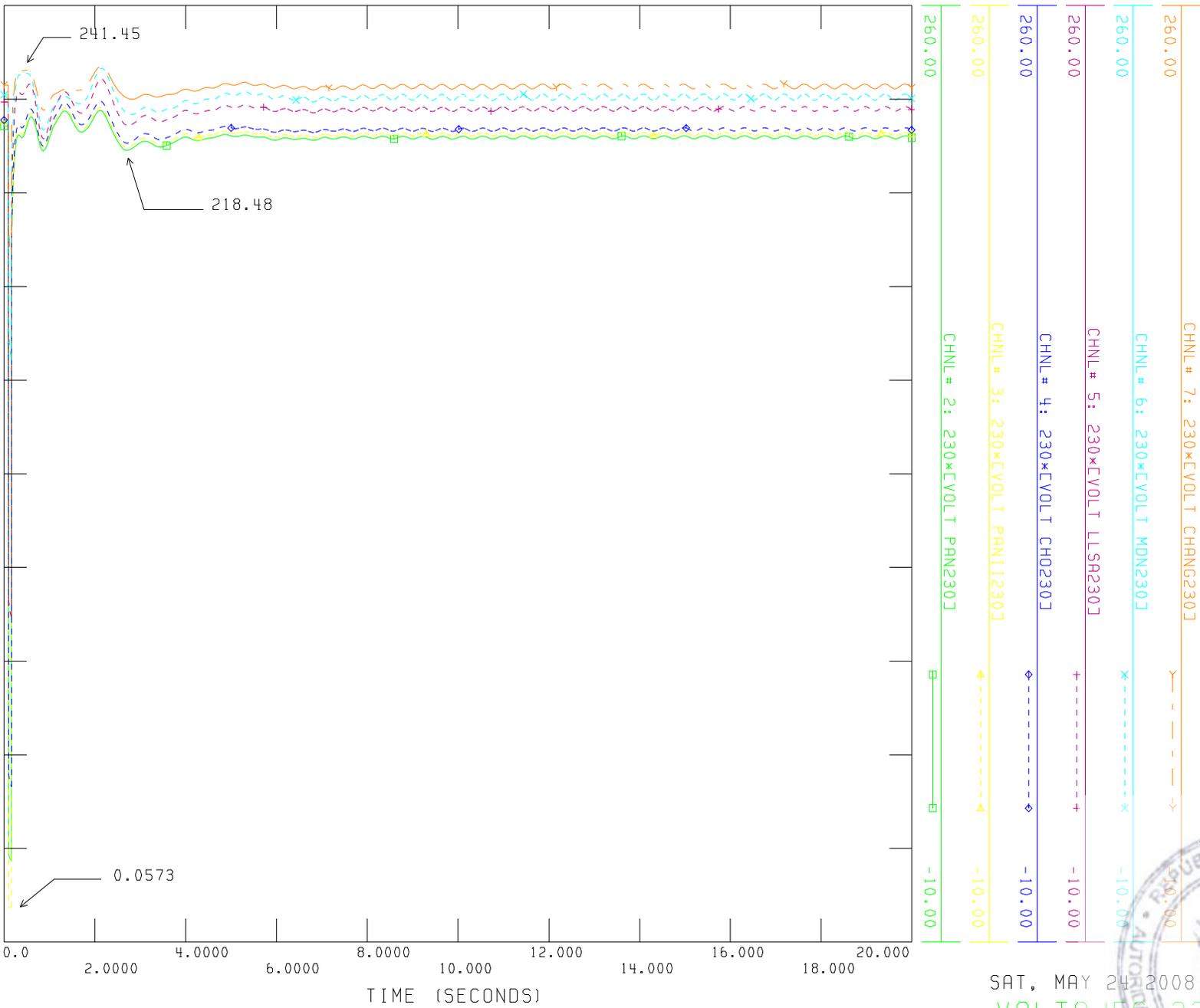


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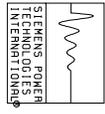
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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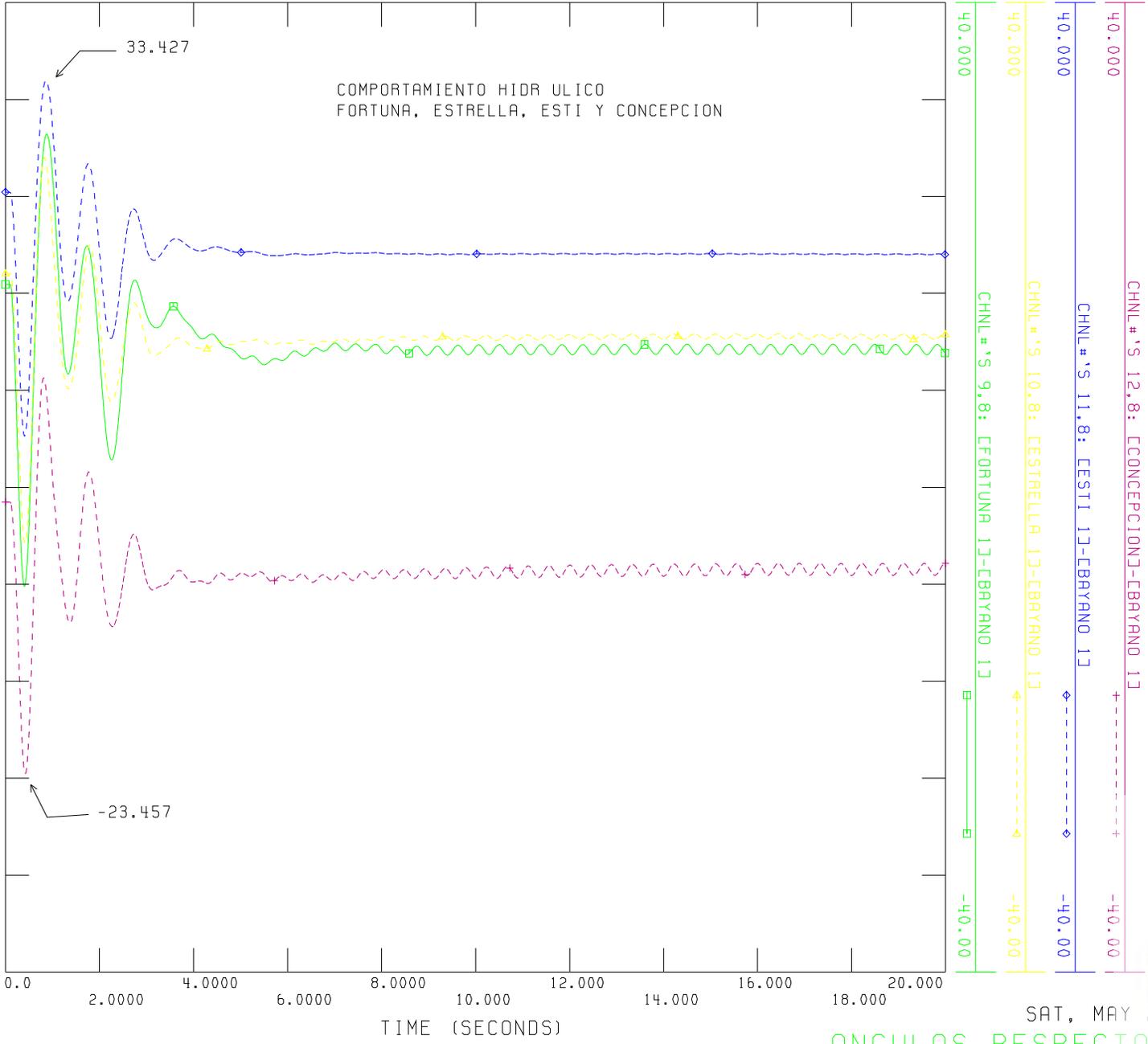
SAT, MAY 24 2008 14:55
VOLTAJES 230 KV





PLAN, EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SAT, MAY 24 2008 15:29

ANGULOS RESPECTO A BAYANO





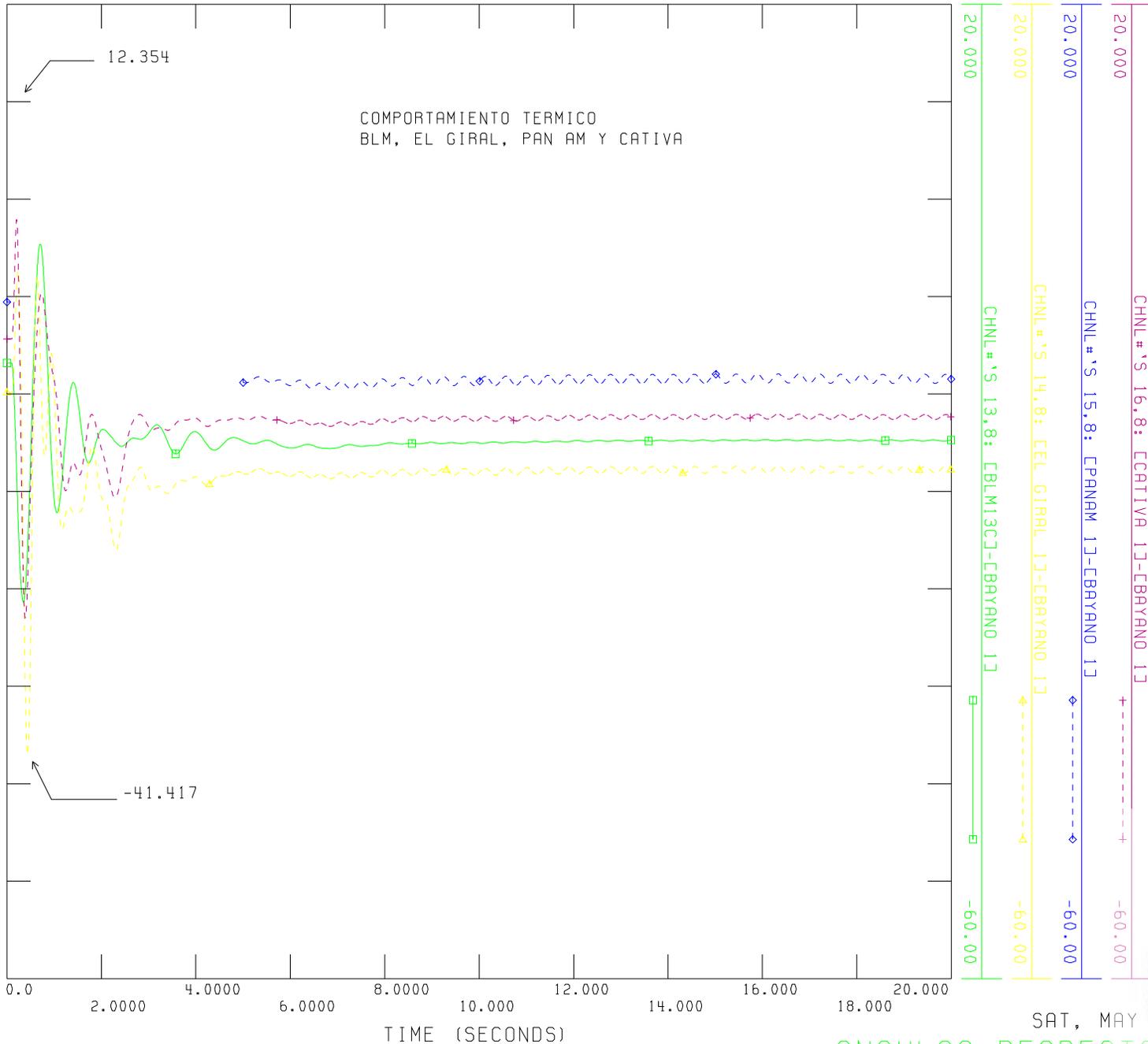
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2008

FILE: C:\DISCO D\... \ESTABILIDAD 2008\2008PE_ModMax-Inv ContPr.out



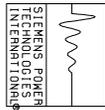
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ANGULOS RESPECTO A BAYANO



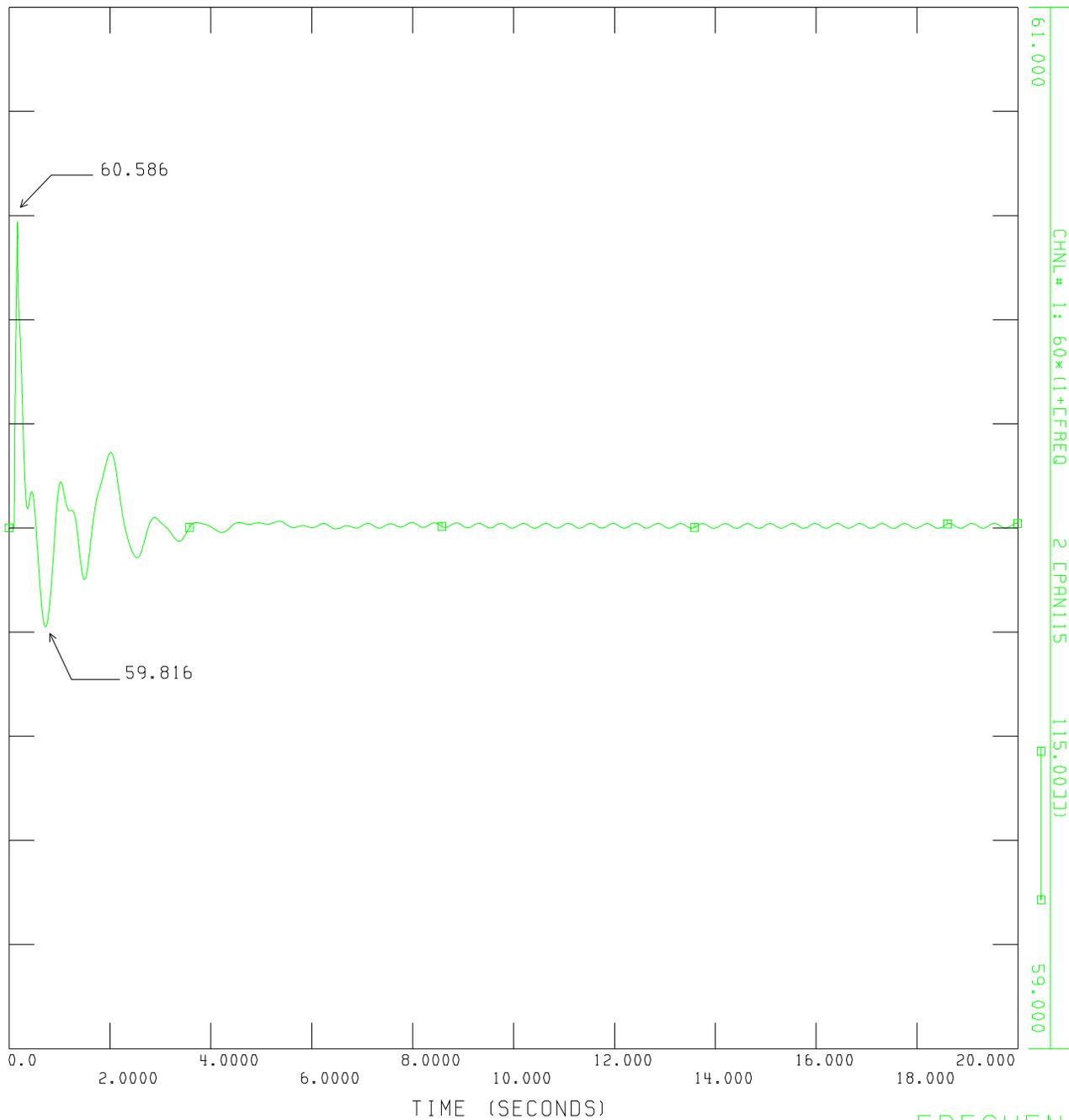
**AÑO 2008 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II- LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SAT, MAY 24 2008 16:11

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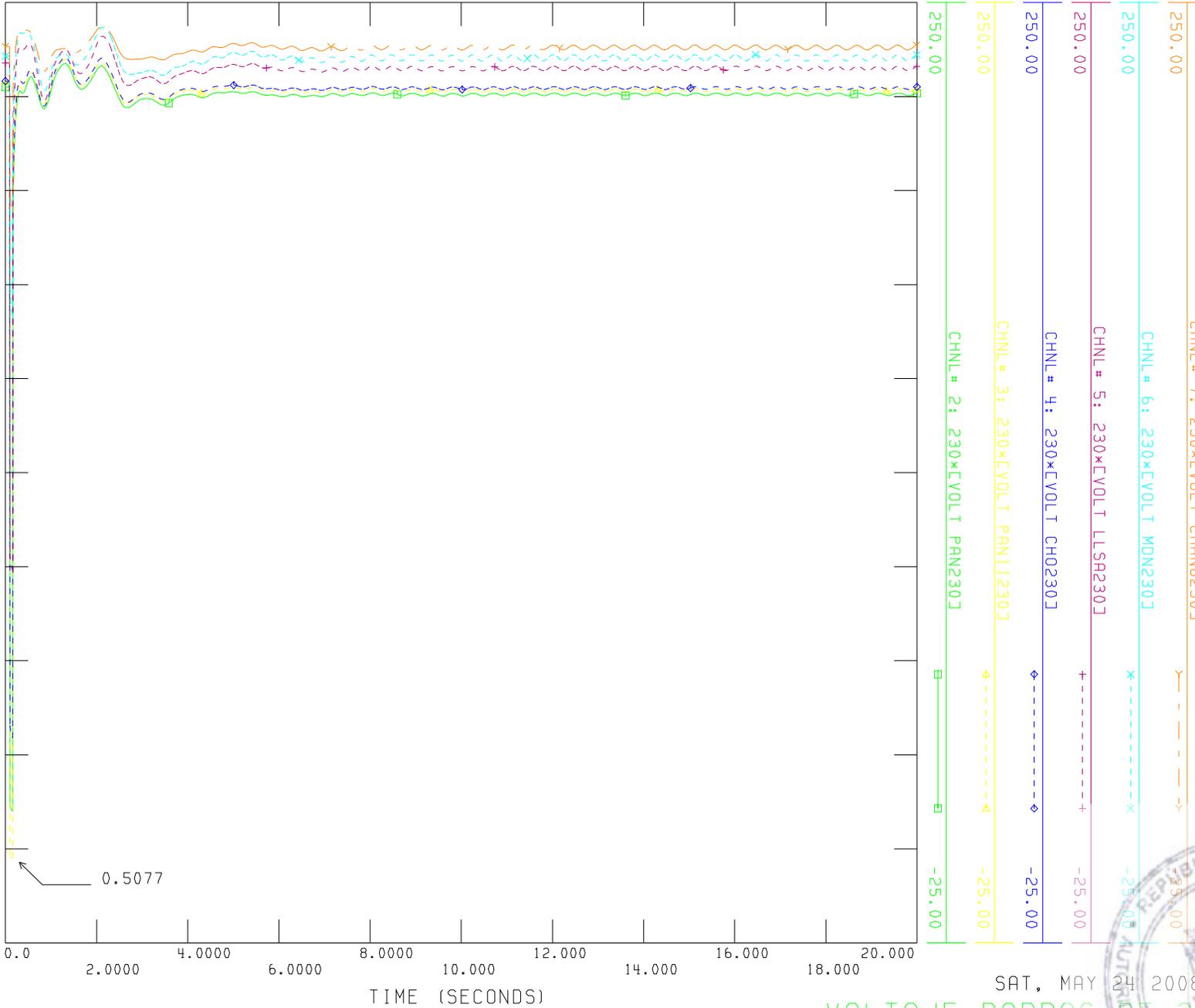


Handwritten signature



PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2008

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SAT, MAY 24 2008 16:16

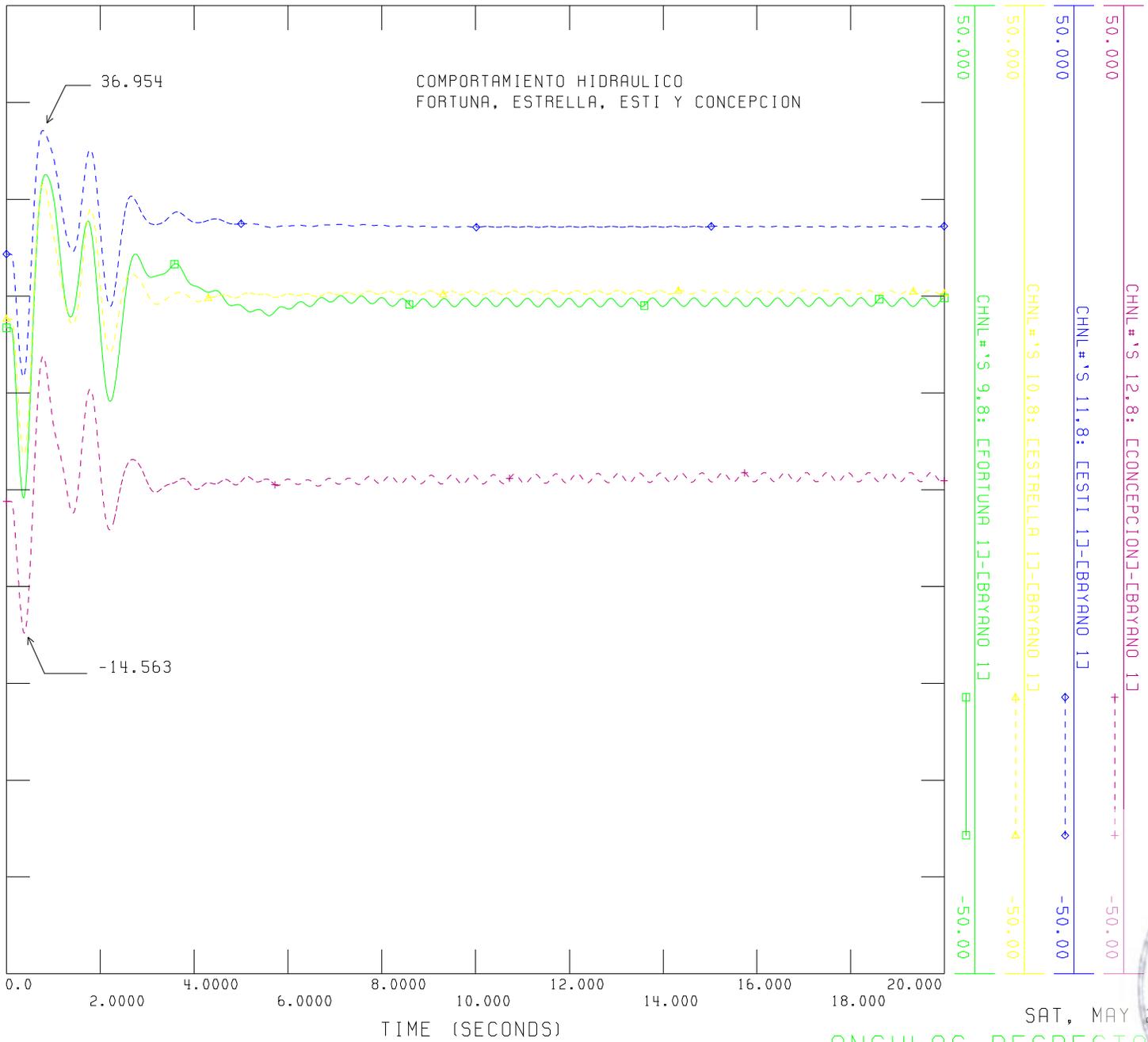
VOLTAGE BARRAS DE 230 KV

Handwritten signature



PLRN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2008

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SAT, MAY 24 2008 16:20

ANGULOS RESPECTO A BAYANO



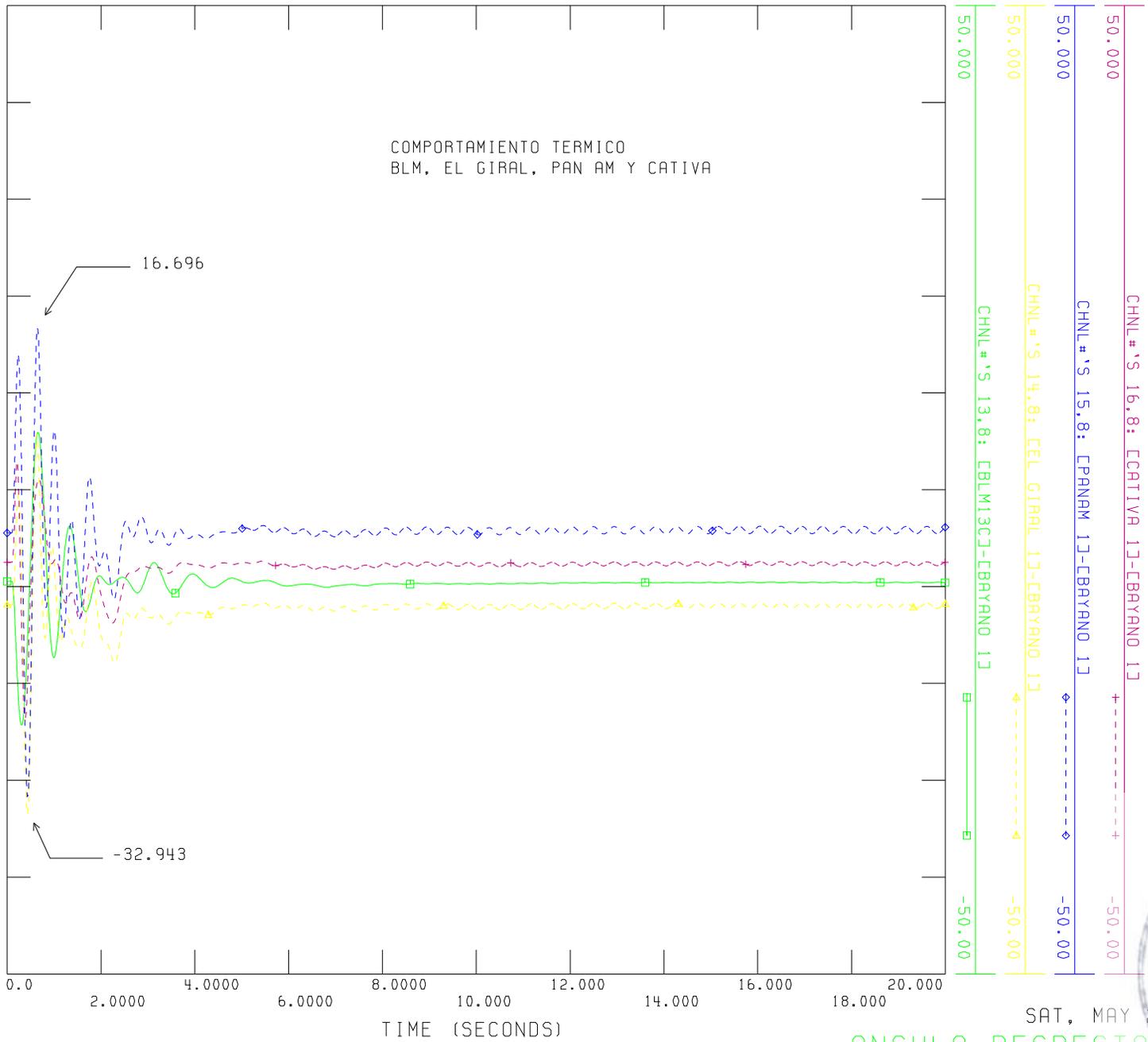
PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2008

FILE: C:\DISCO D\...\ESTABILIDAD 2008\2008PE_ModMax-Inv Conte.out



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COMPORTAMIENTO TERMICO
 BLM, EL GIRAL, PAN AM Y CATIVA



SAT, MAY 24 2008 16:24

ANGULO RESPECTO A BAYANO

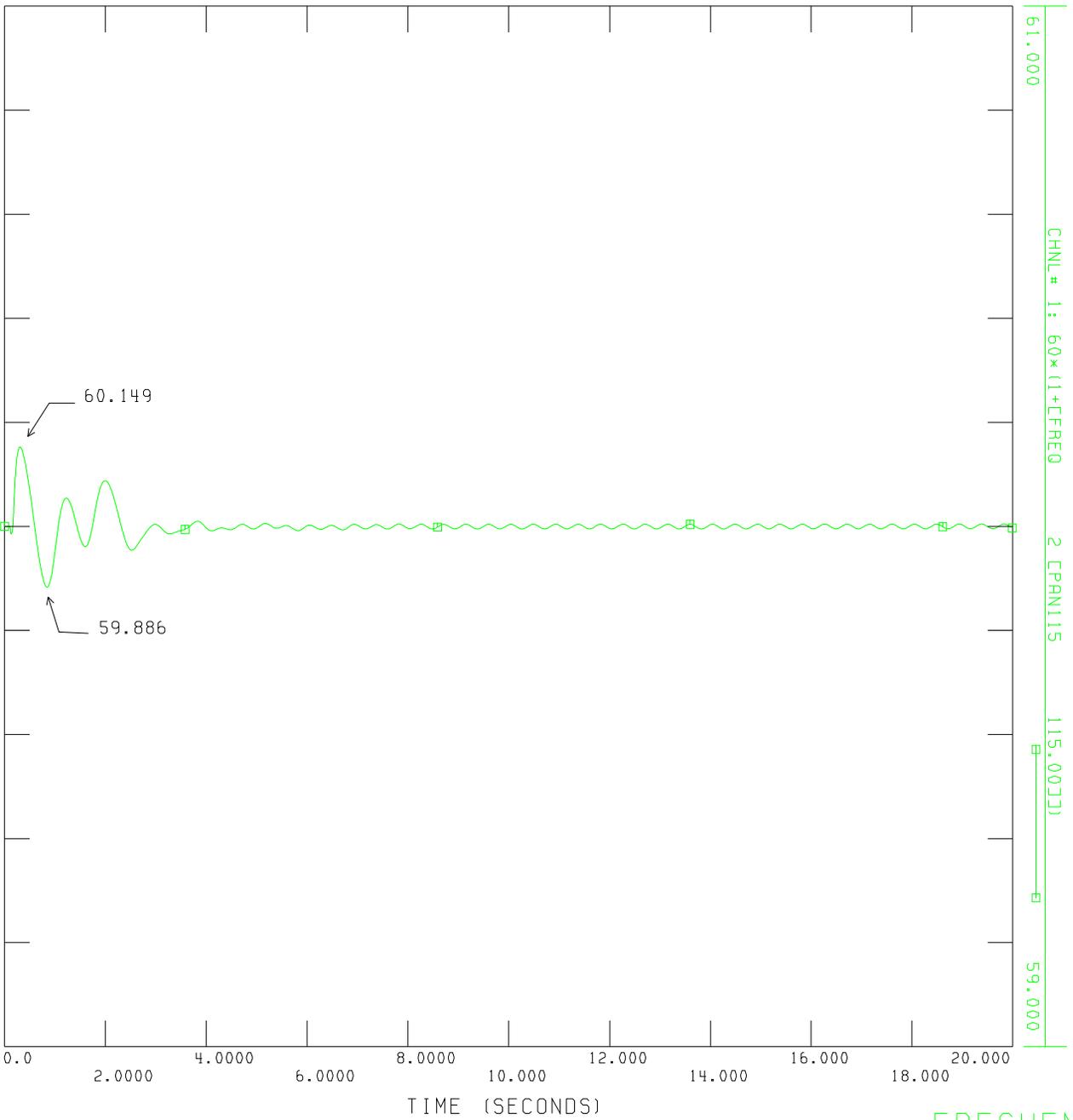
**AÑO 2008 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

FILE: C:\DISCO D\...\NESTABILIDAD 2008\2008PE_ModMax-Inv_Contr.out



SUN, MAY 25 2008 13:40

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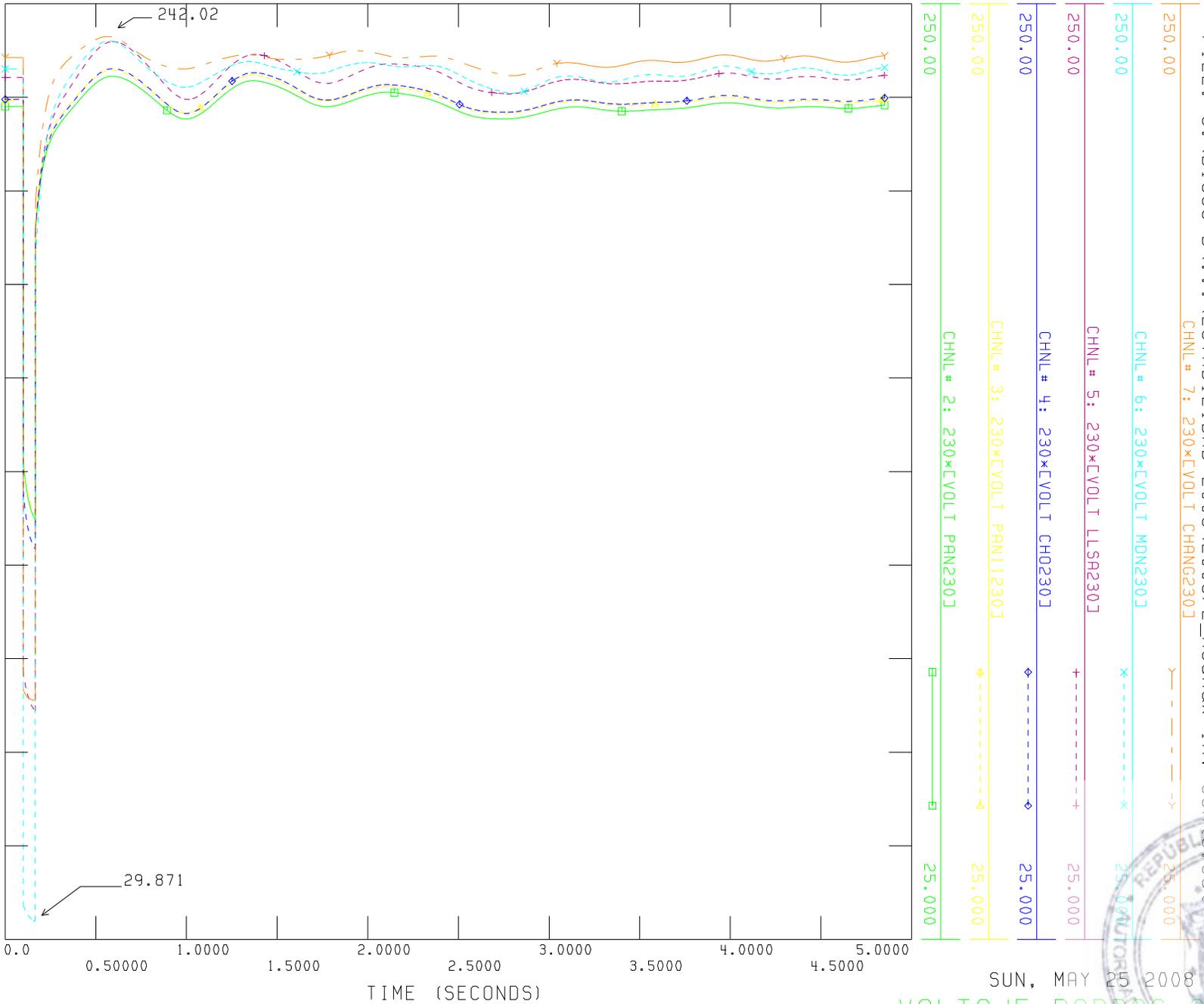


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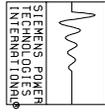
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2008

FILE: C:\DISCO D\...\VESTABILIDAD 2008\2008PE_ModMax-Inv_Contr. out



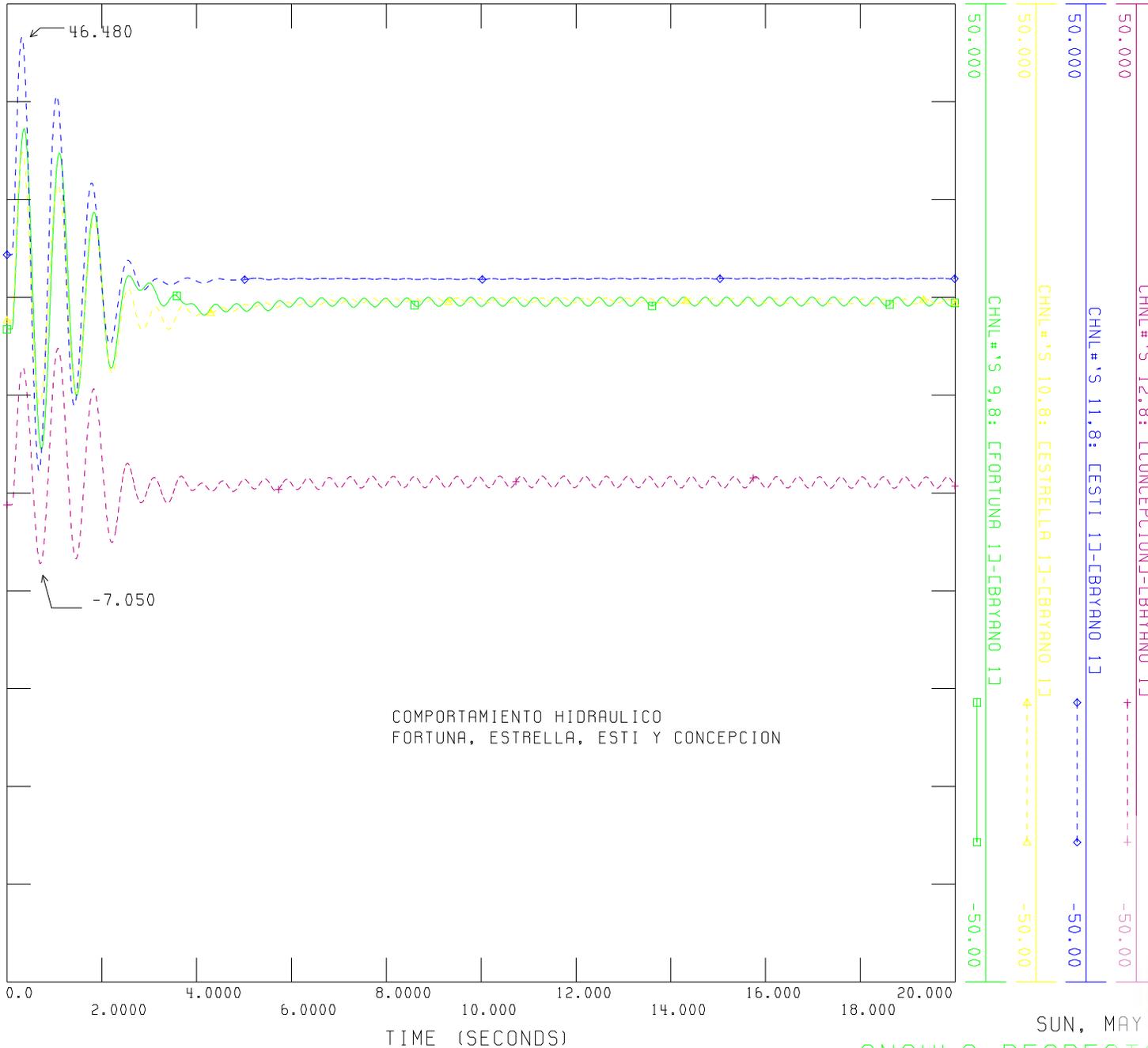
SUN, MAY 25 2008 13:46
VOLTAJE BARRAS 230KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2008

FILE: C:\DISCO D\... \ESTABILIDAD 2008\2008PE_ModMax-Inv Con TB.out



SUN, MAY 25 2008 13:50

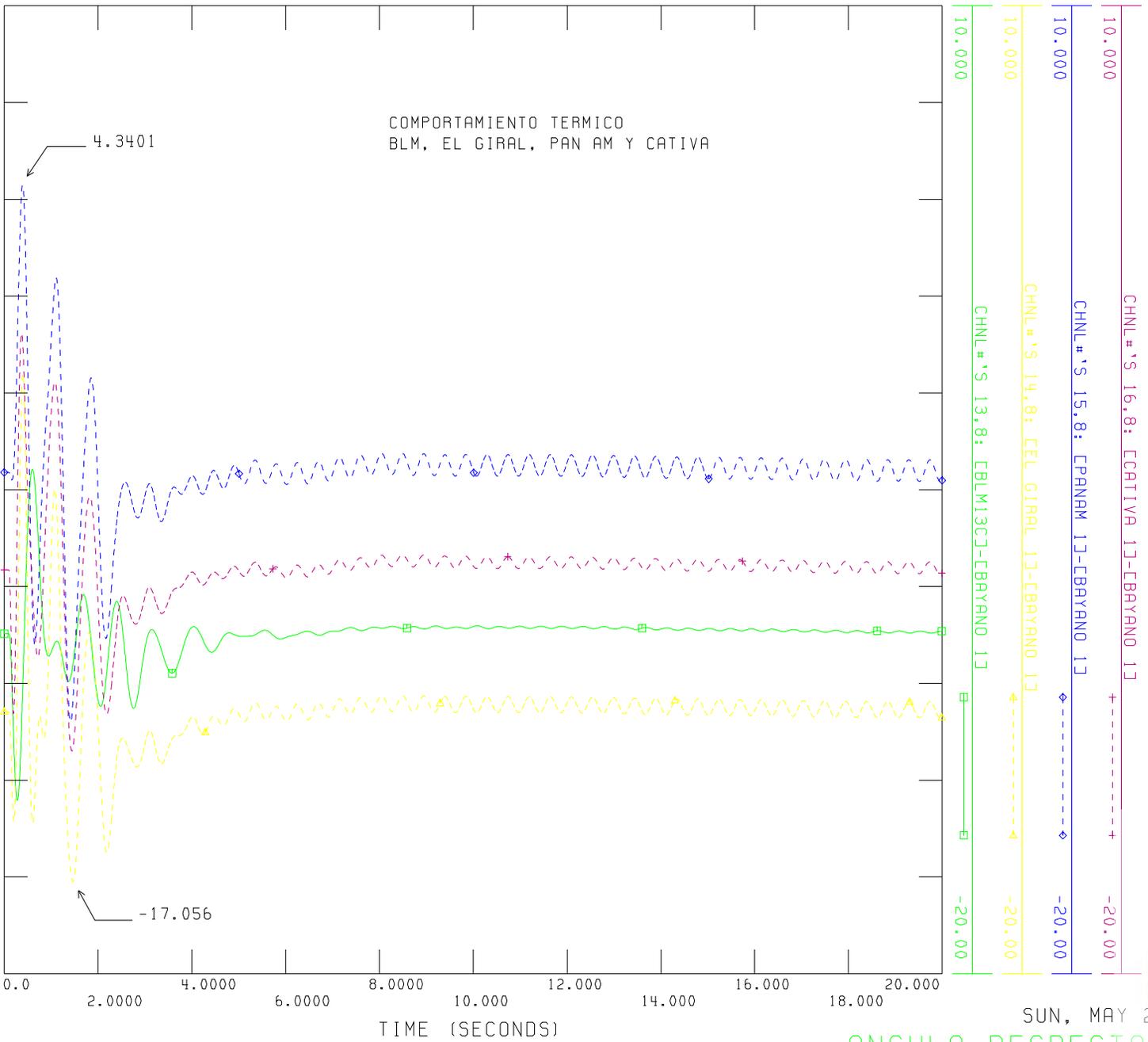
ANGULO RESPECTO A BAYANO

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SUN, MAY 25 2008 13:54

ANGULO RESPECTO A BAYANO

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**AÑO 2008 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

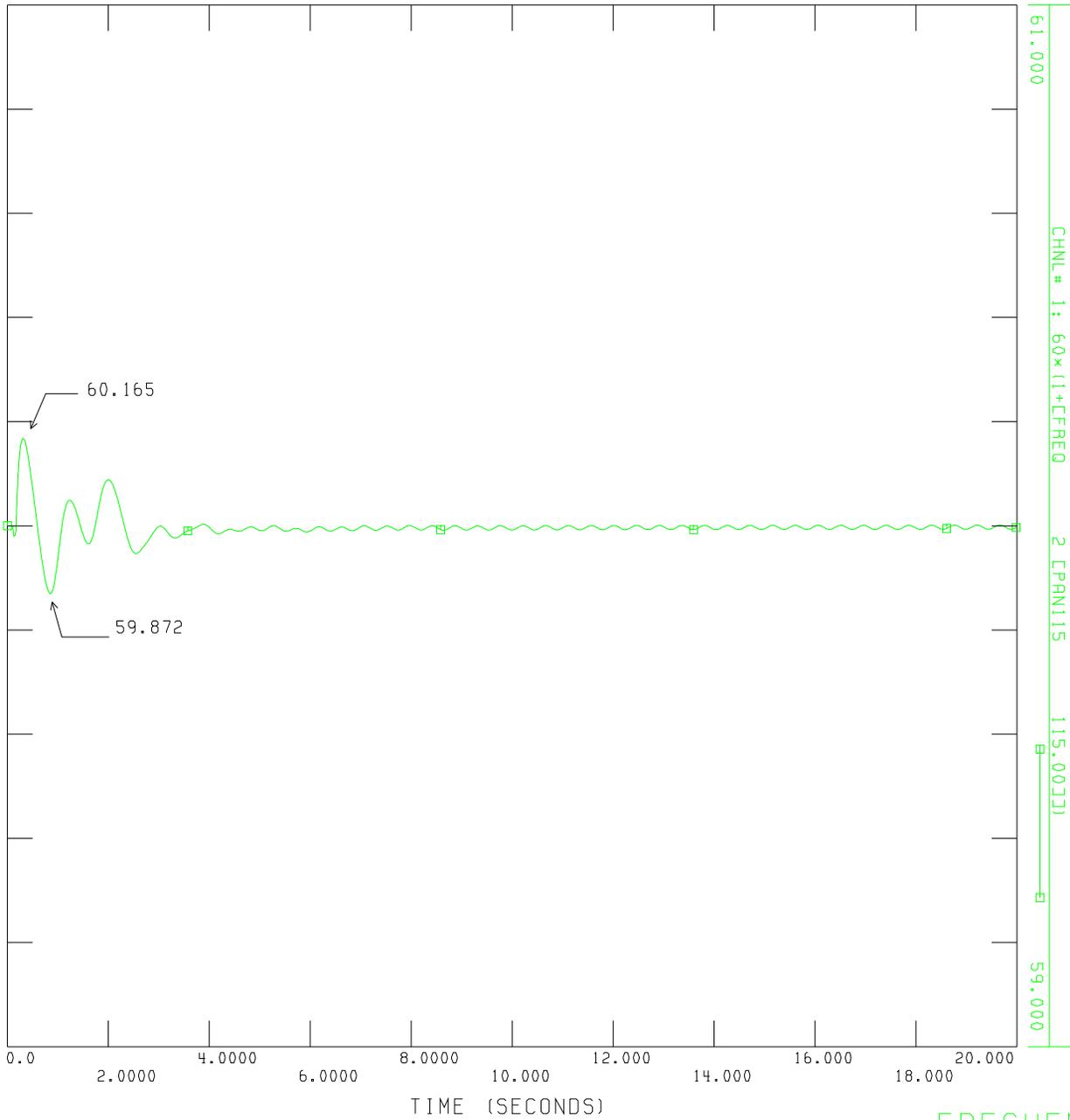


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SUN, MAY 25 2008 14:02

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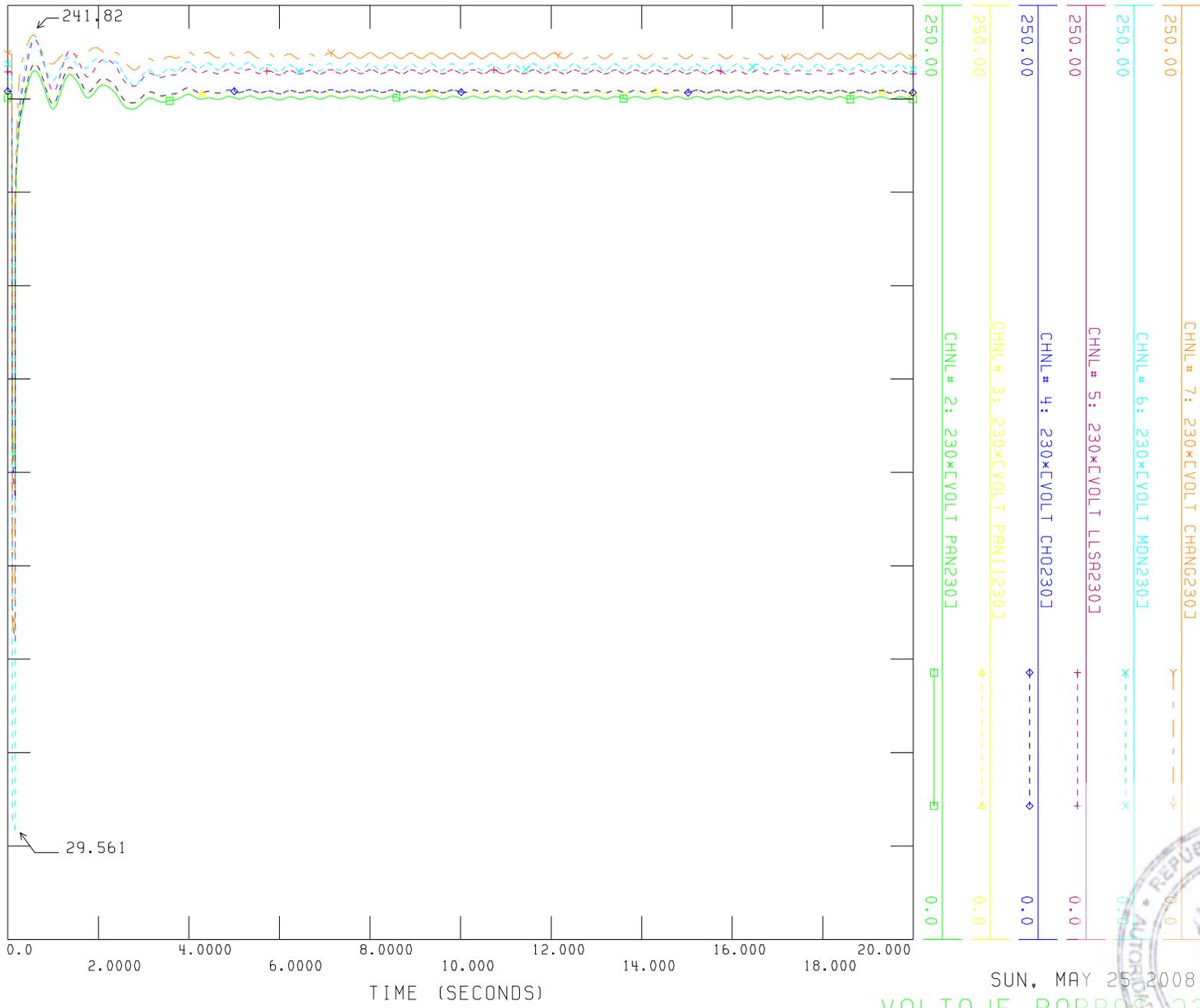


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2008

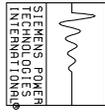
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SUN, MAY 25 2008 14:07

VOLTAJE BARRAS 230 KV





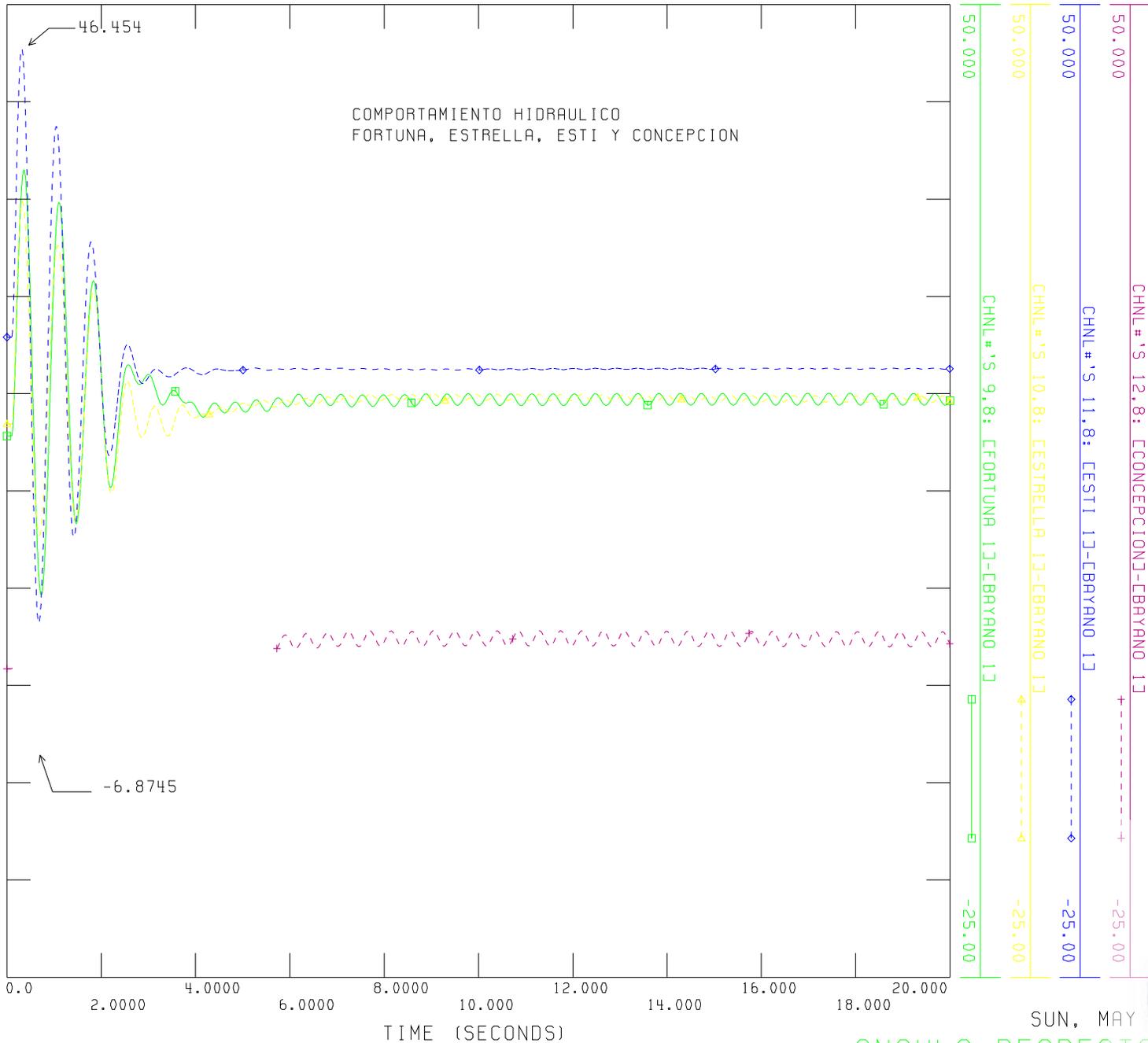
PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SUN, MAY 25 2008 14:11

ANGULO RESPECTO A BAYANO





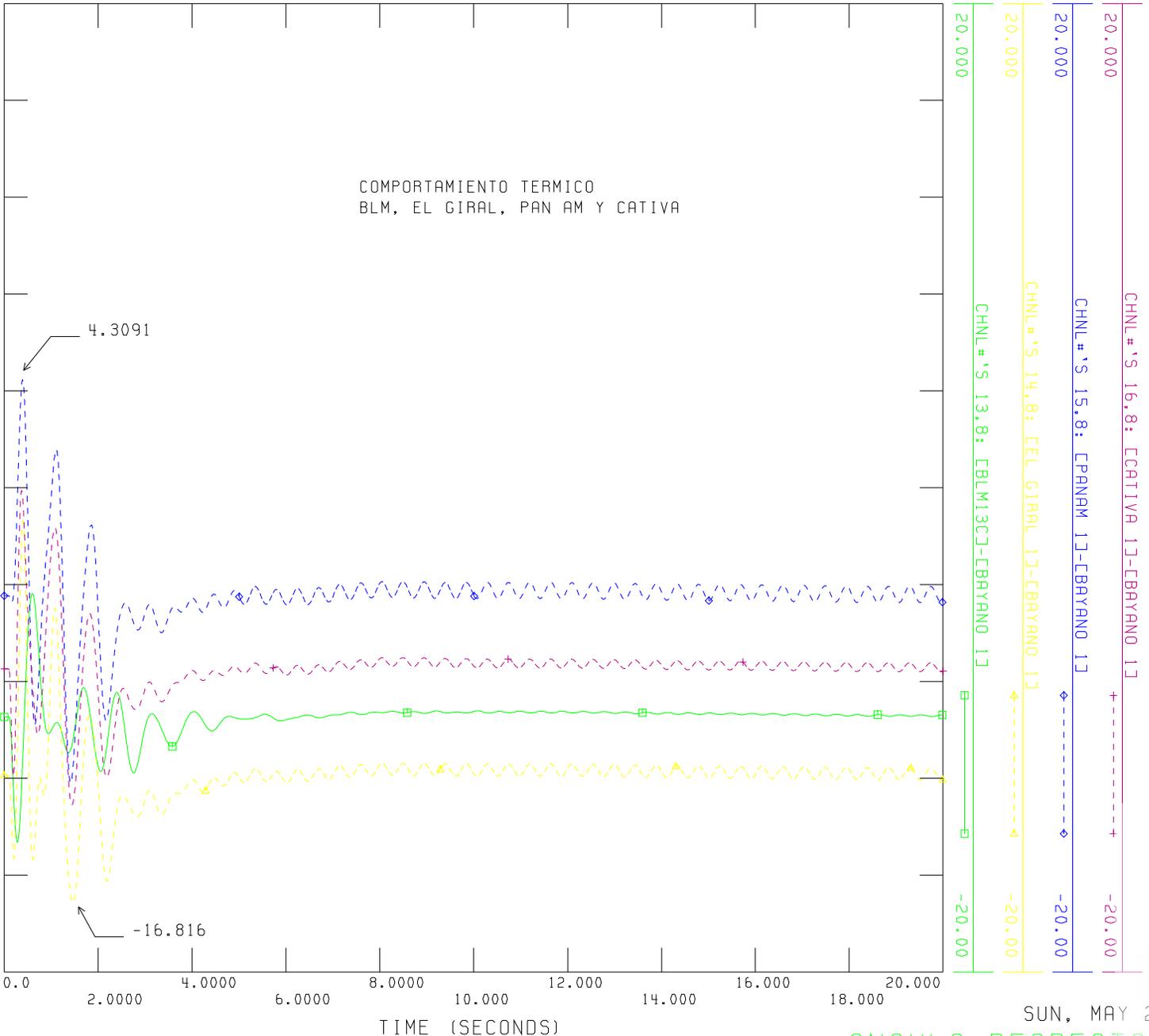
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SUN, MAY 25 2008 14:16

ANGULO RESPECTO A BAYANO



AÑO 2008 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8

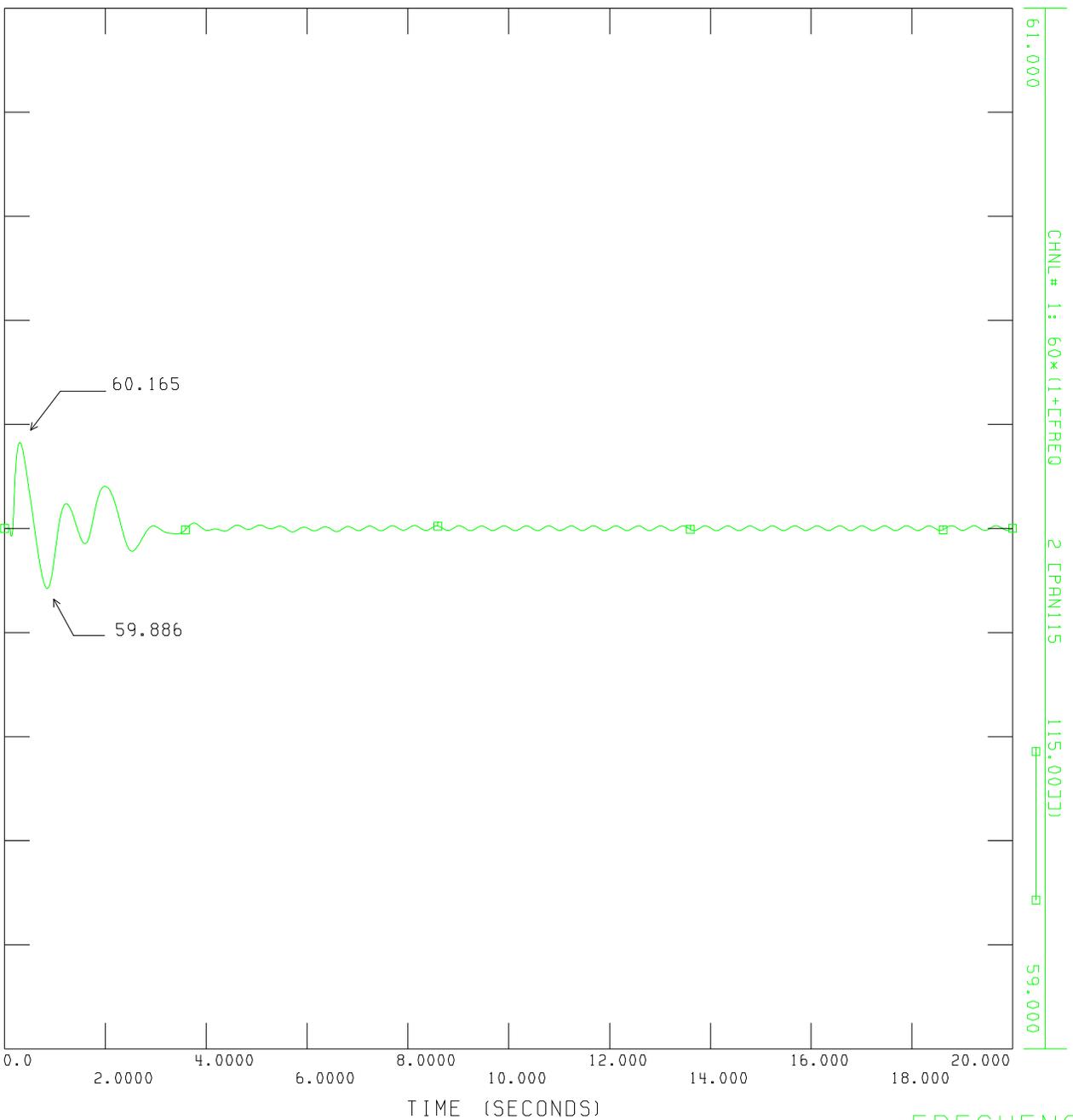


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2008

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SUN, MAY 25 2008 14:19

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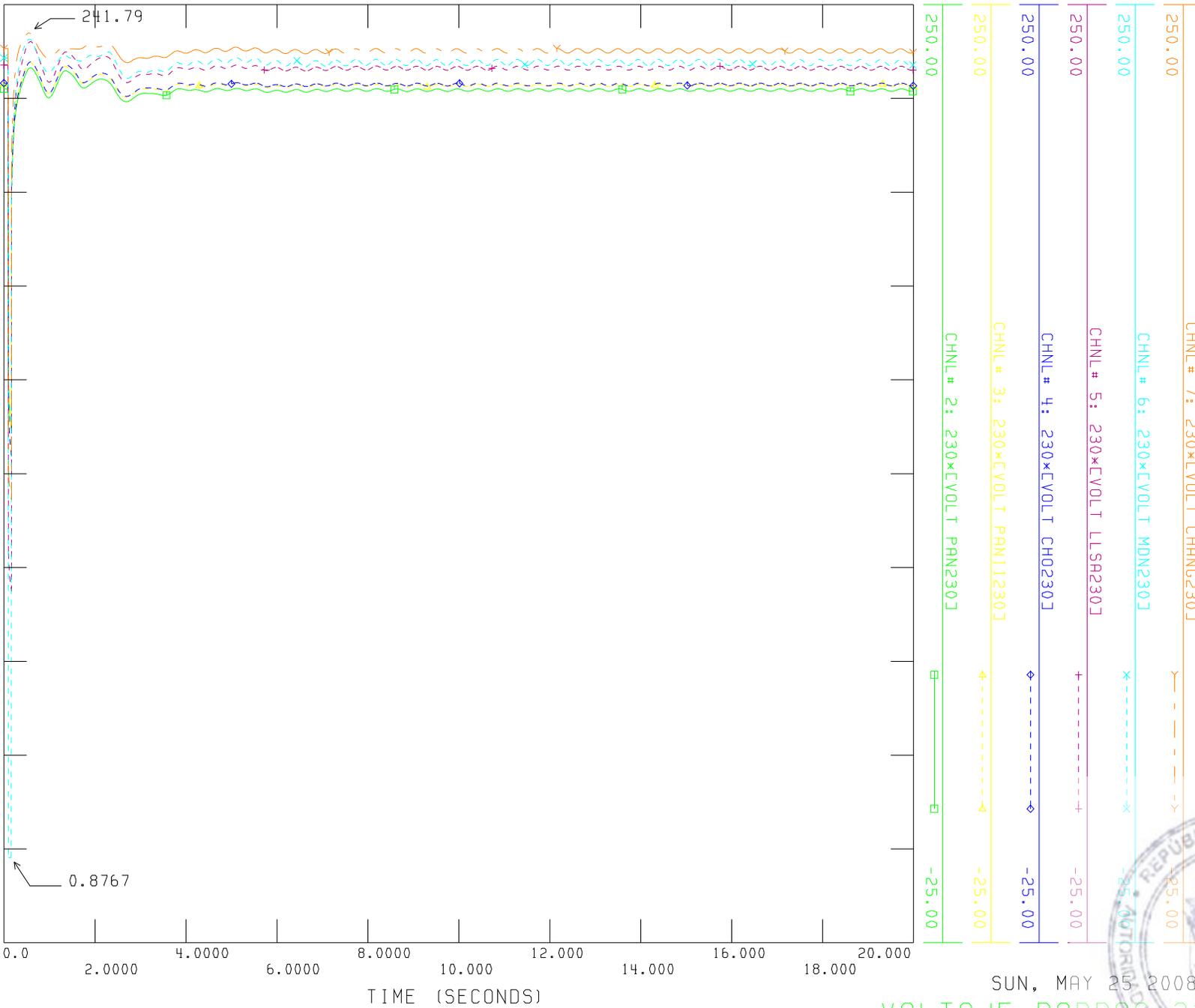


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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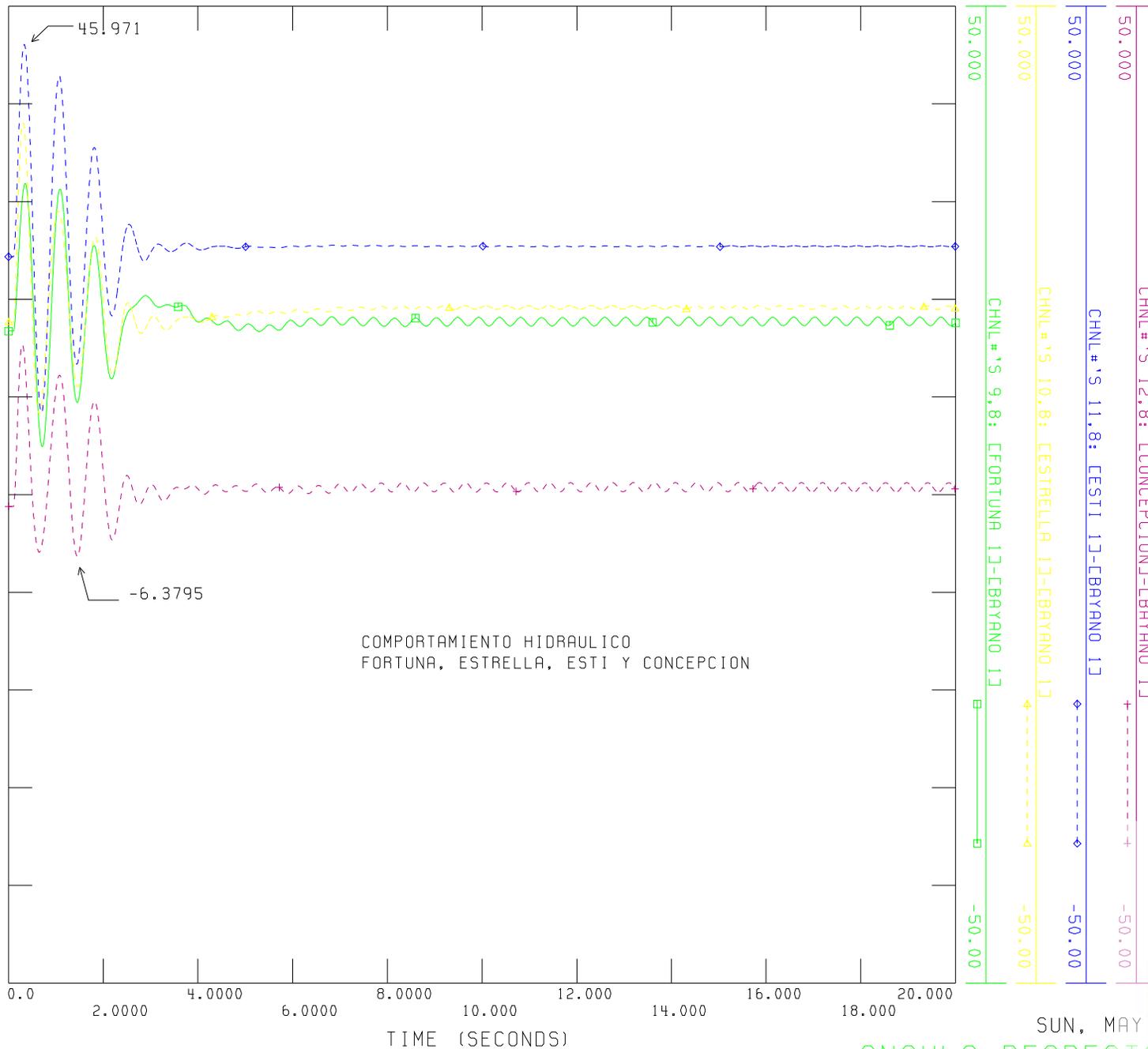
SUN, MAY 25 2008 14:23
VOLTAJE BARRAS 230 KV

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PLRN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
R 0 2008

FILE: C:\DISCO D\...\VESTABILIDAD 2008\2008PE_ModMax-Inv Confs.out



ANGULO RESPECTO A BAYANO



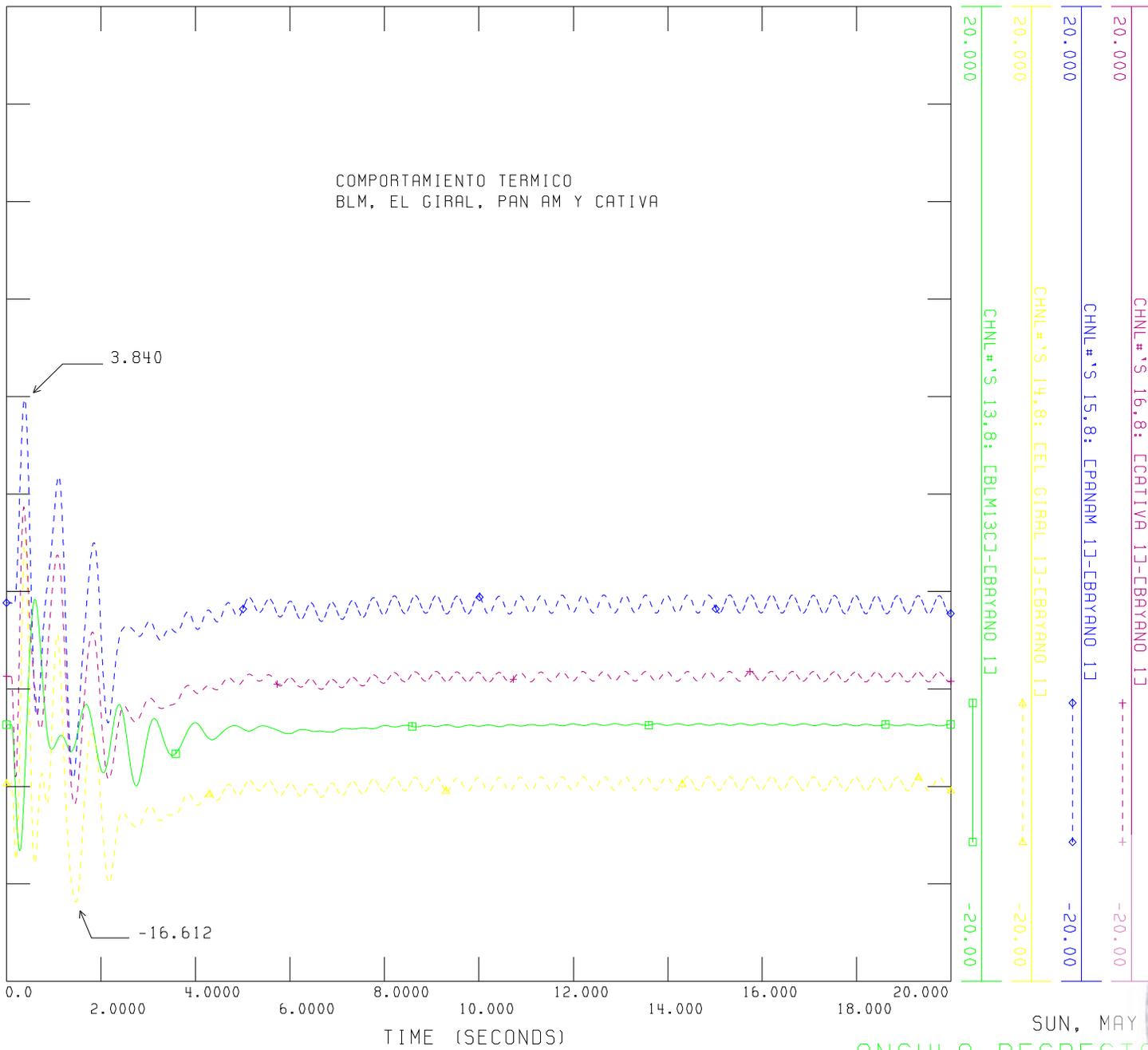
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MRX INV
A 0 2008

FILE: C:\DISCO D\...\VESTABILIDAD 2008\2008PE_ModMax-Inv Cont5.out



SUN, MAY 25 2008 14:32

ANGULO RESPECTO A BAYANO



2009



de

**AÑO 2009 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA – PANAMA II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

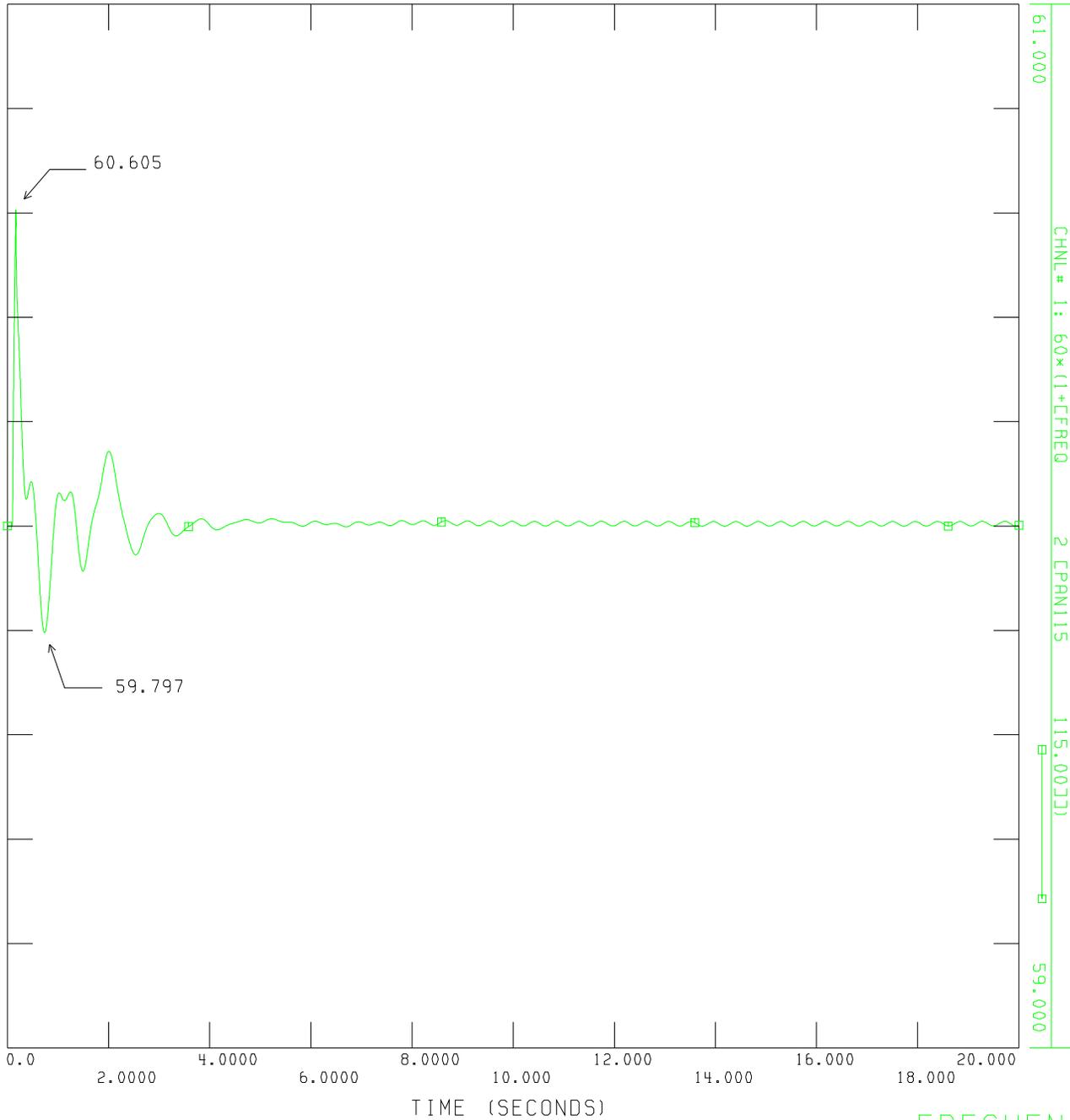


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Contr_001



MON, MAY 26 2008 8:41

FRECUENCIA PANAMA 115 KV



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FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Contra_Inv

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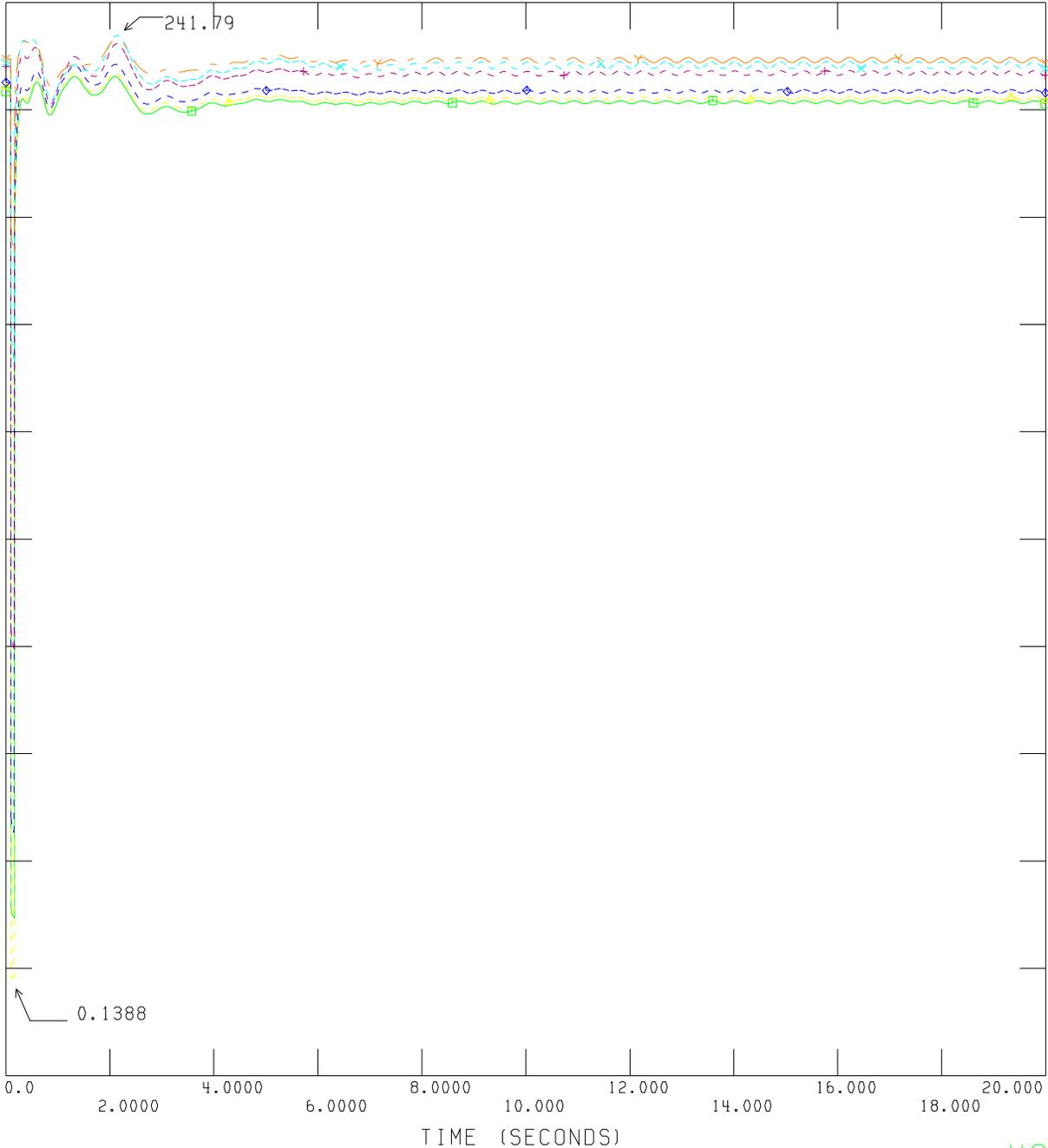
CHNL # 6: 230*CVOLT MDN230J

CHNL # 5: 230*CVOLT LLSN230J

CHNL # 4: 230*CVOLT CH0230J

CHNL # 3: 230*CVOLT PAN11230J

CHNL # 2: 230*CVOLT PAN230J



MON, MAY 26 2008 8:46

VOLTAJE BARRAS 230 KV

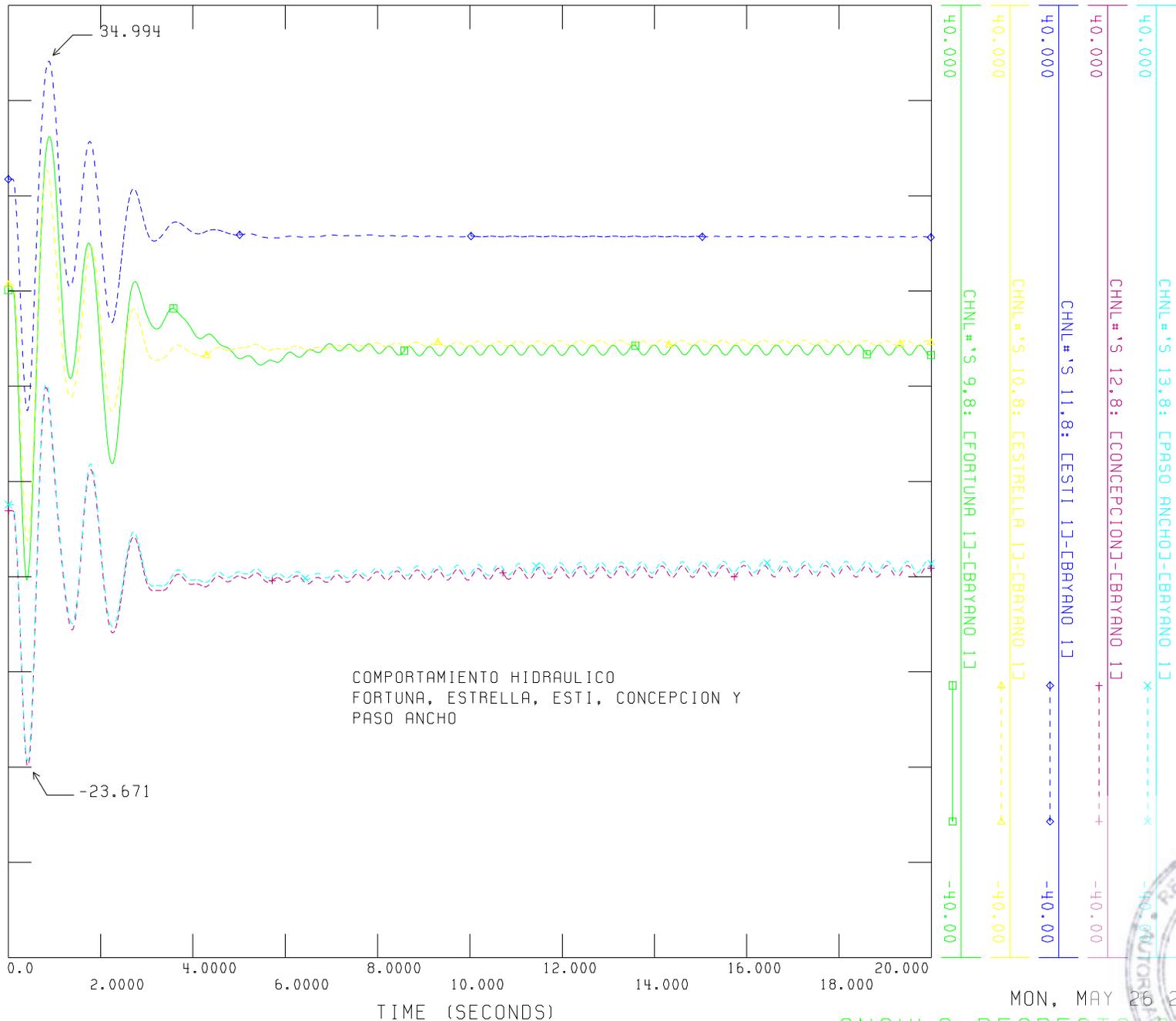


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2009

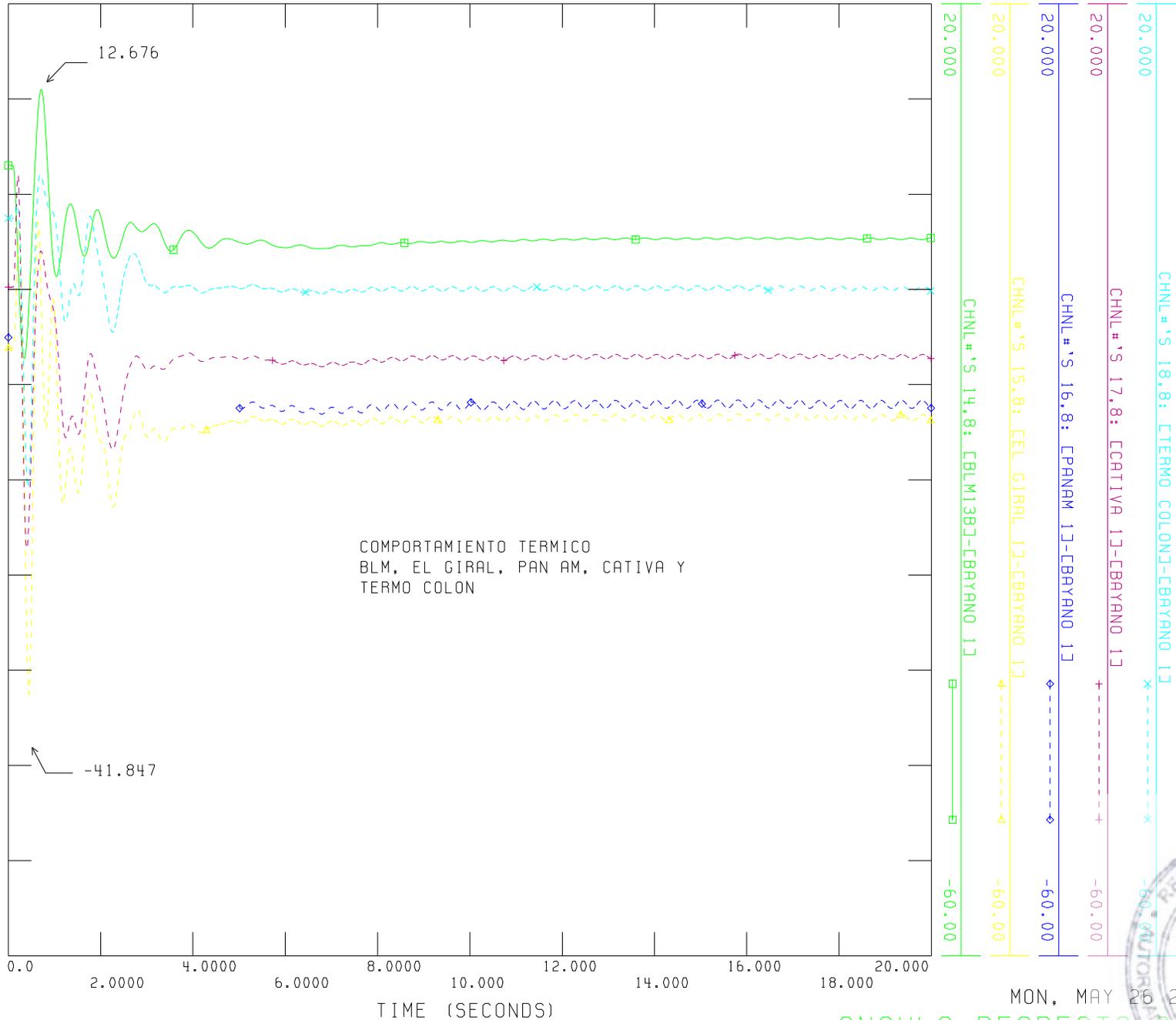
FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv Con t out



MON, MAY 26 2008 8:50

ANGULO RESPECTO A BAYANO

Handwritten signature



MON, MAY 26 2008 9:18

ANGULO RESPECTO A BAYANO

Handwritten signature

**AÑO 2009 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II- LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

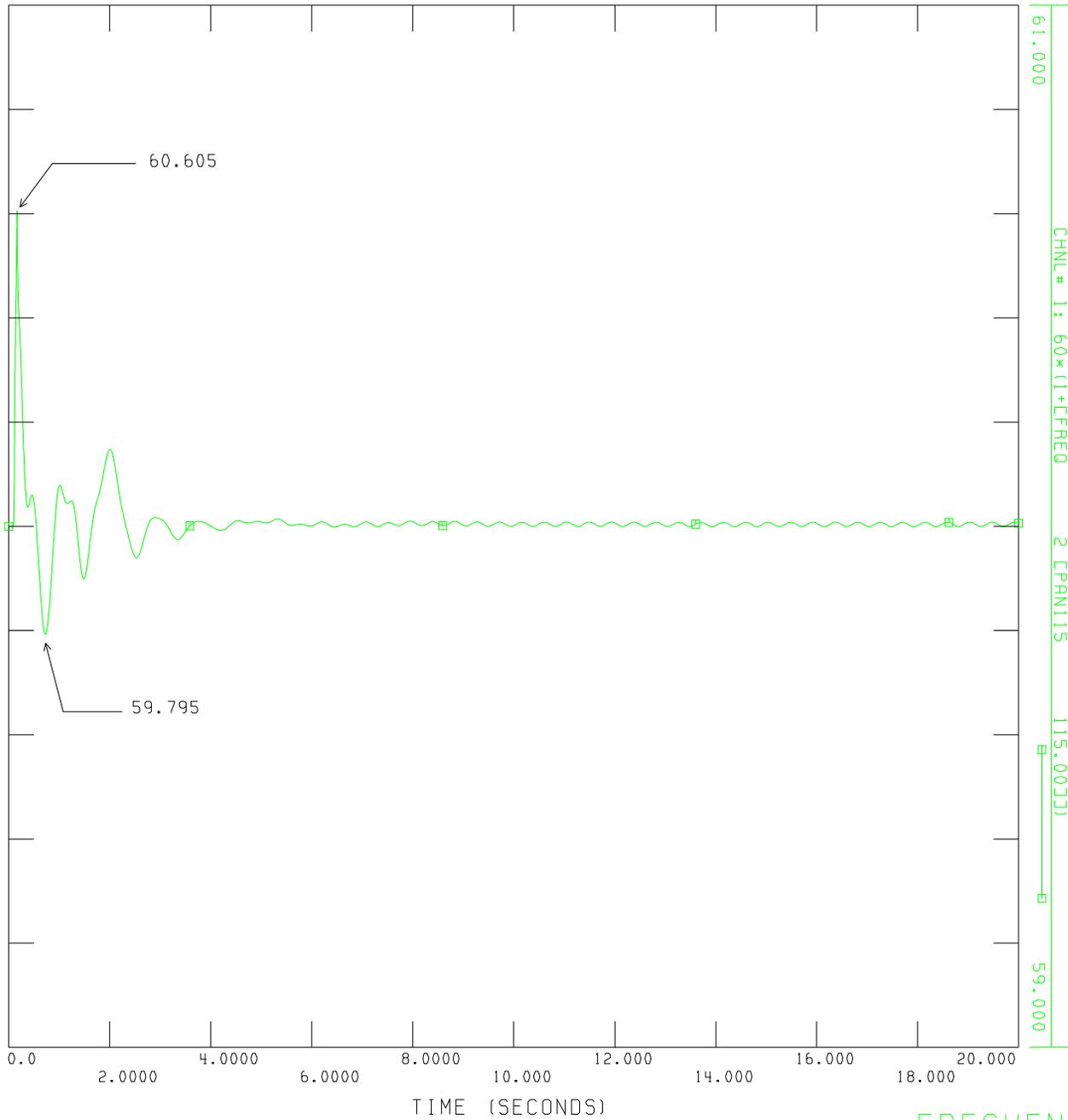


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2009

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MON, MAY 26 2008 9:27

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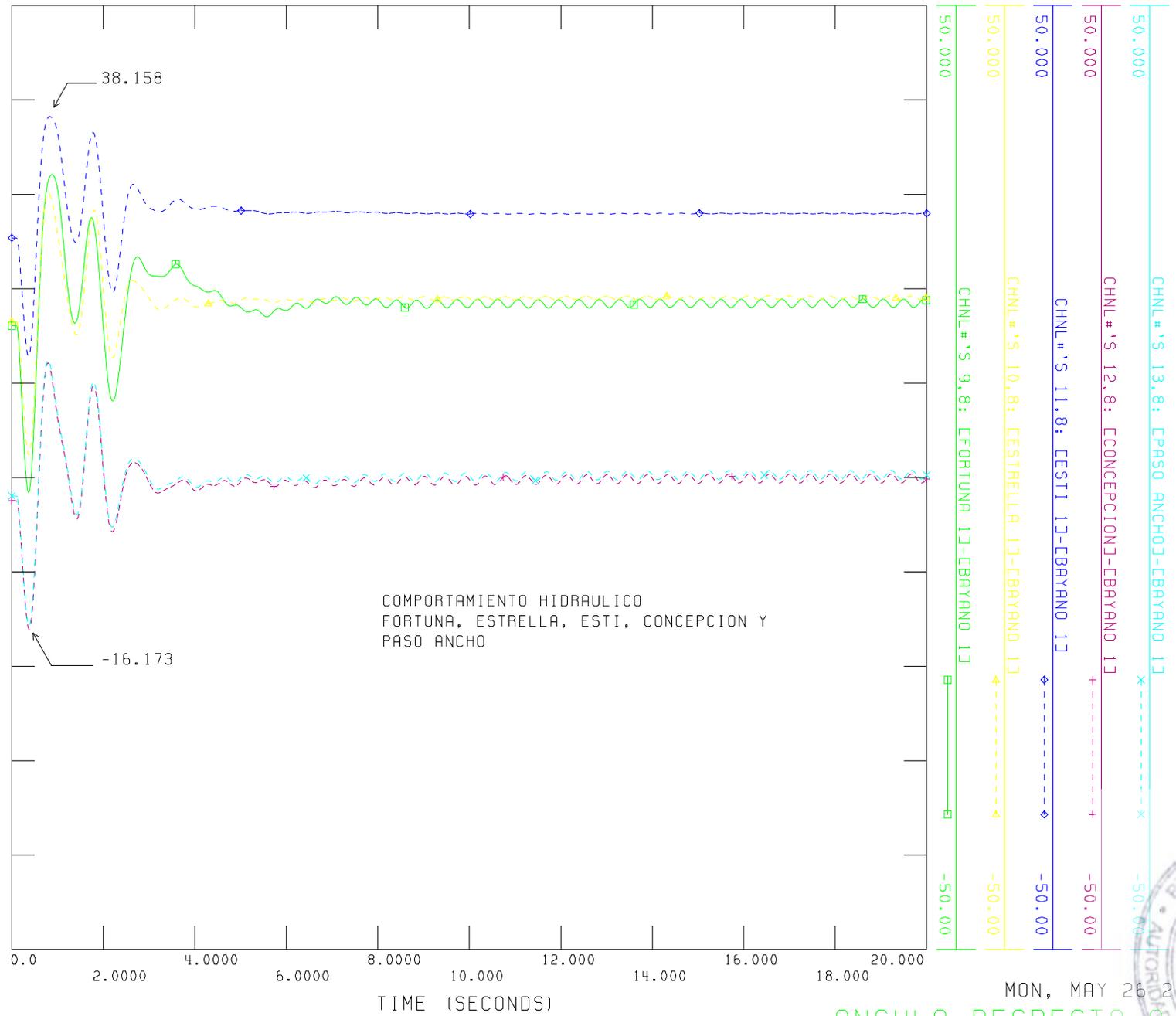


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv Cont2.out

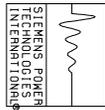


MON, MAY 26 2008 9:35

ANGULO RESPECTO A BAYANO



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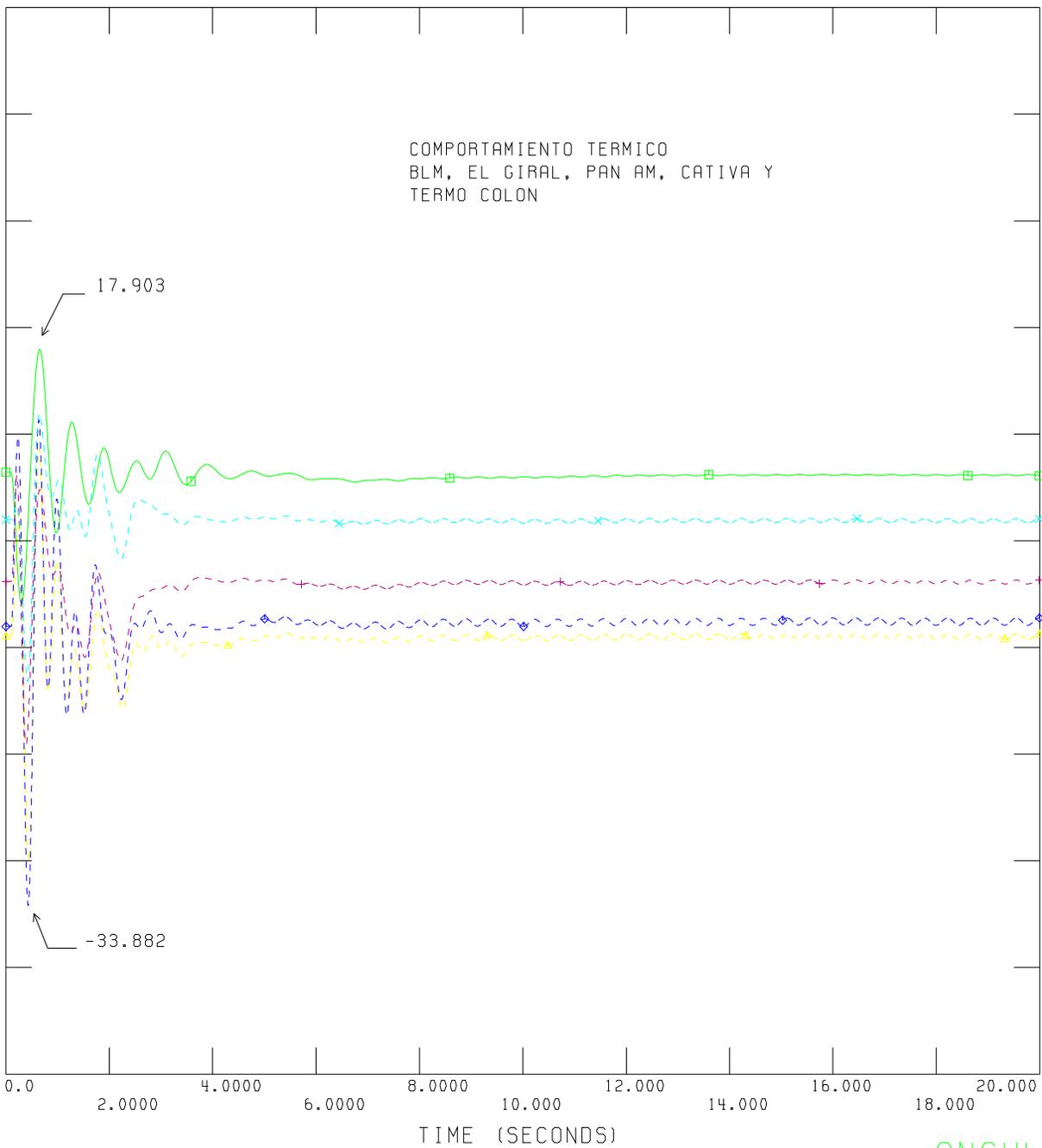
PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Conf2.out



50.000 CHNL#'S 18,8: [TERMO COLON]-[BAYANO 1] *
50.000 CHNL#'S 17,8: [CATIVA 1]-[BAYANO 1] +
50.000 CHNL#'S 16,8: [PRANM 1]-[BAYANO 1] ◆
50.000 CHNL#'S 15,8: [EL GIRAL 1]-[BAYANO 1] ▲
50.000 CHNL#'S 14,8: [BLM13B]-[BAYANO 1] □
50.000

COMPORTAMIENTO TERMICO
BLM, EL GIRAL, PAN AM, CATIVA Y
TERMO COLON



MON, MAY 26 2008 9:38

ANGULO RESPECTO A BAYANO

Handwritten signature

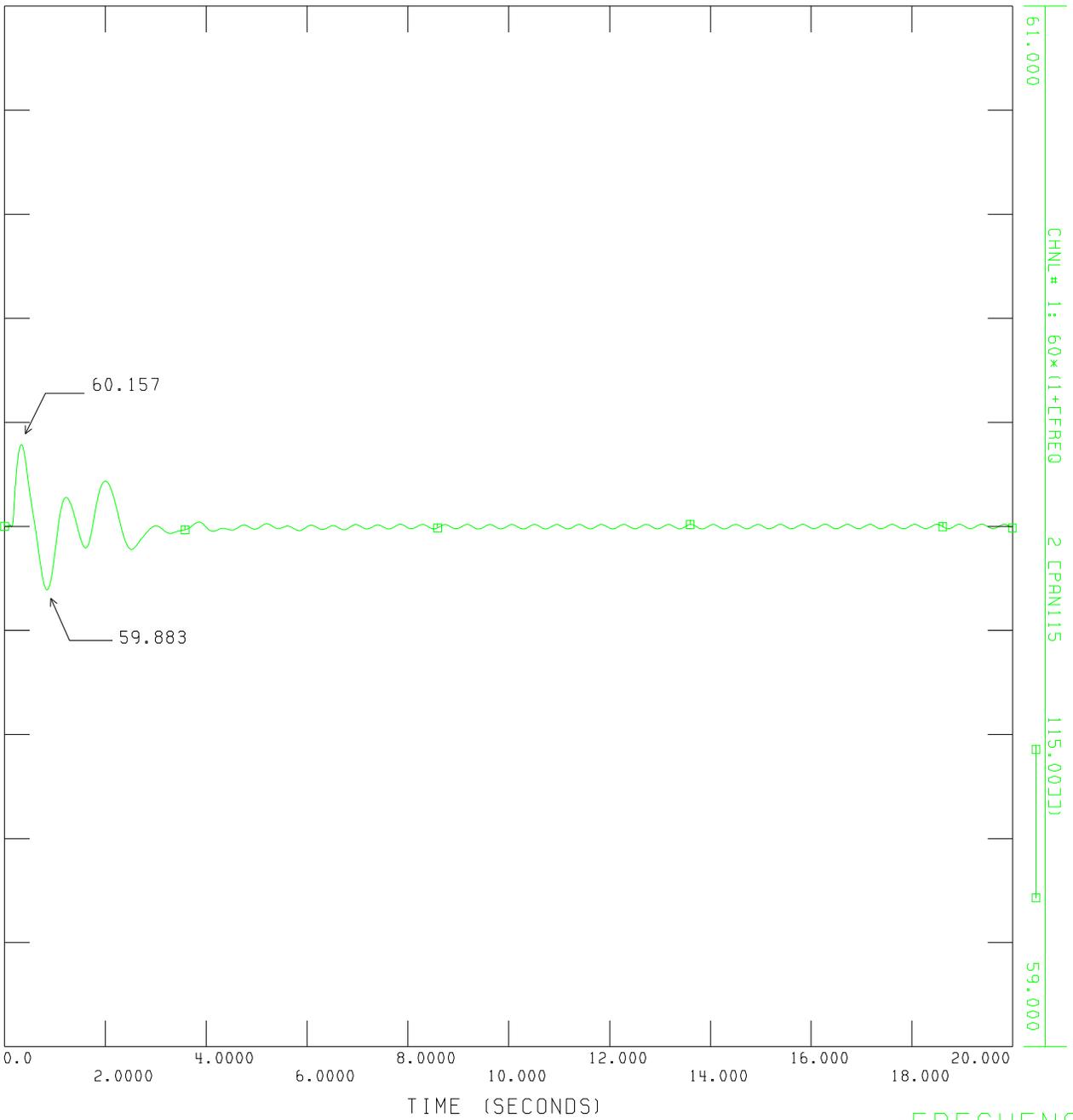
**AÑO 2009 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

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MON, MAY 26 2008 9:50

FRECUENCIA PANAMA 115 KV

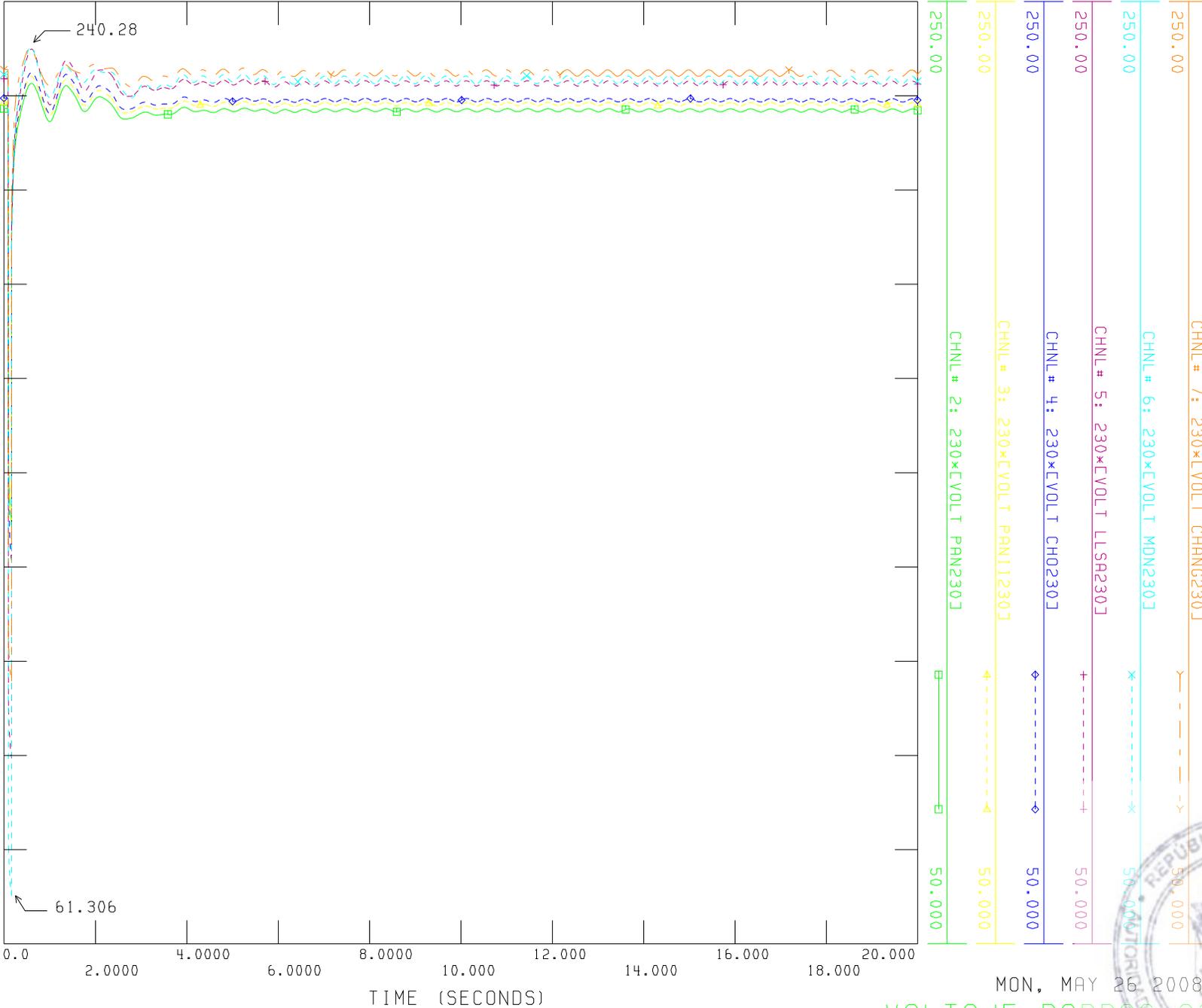


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\ESTABILIDAD 2009\2009PE_ModMax-Inv_Conf3.out



MON, MAY 26 2008 9:53
VOLTAJE BARRAS 230 KV

Handwritten signature or initials.



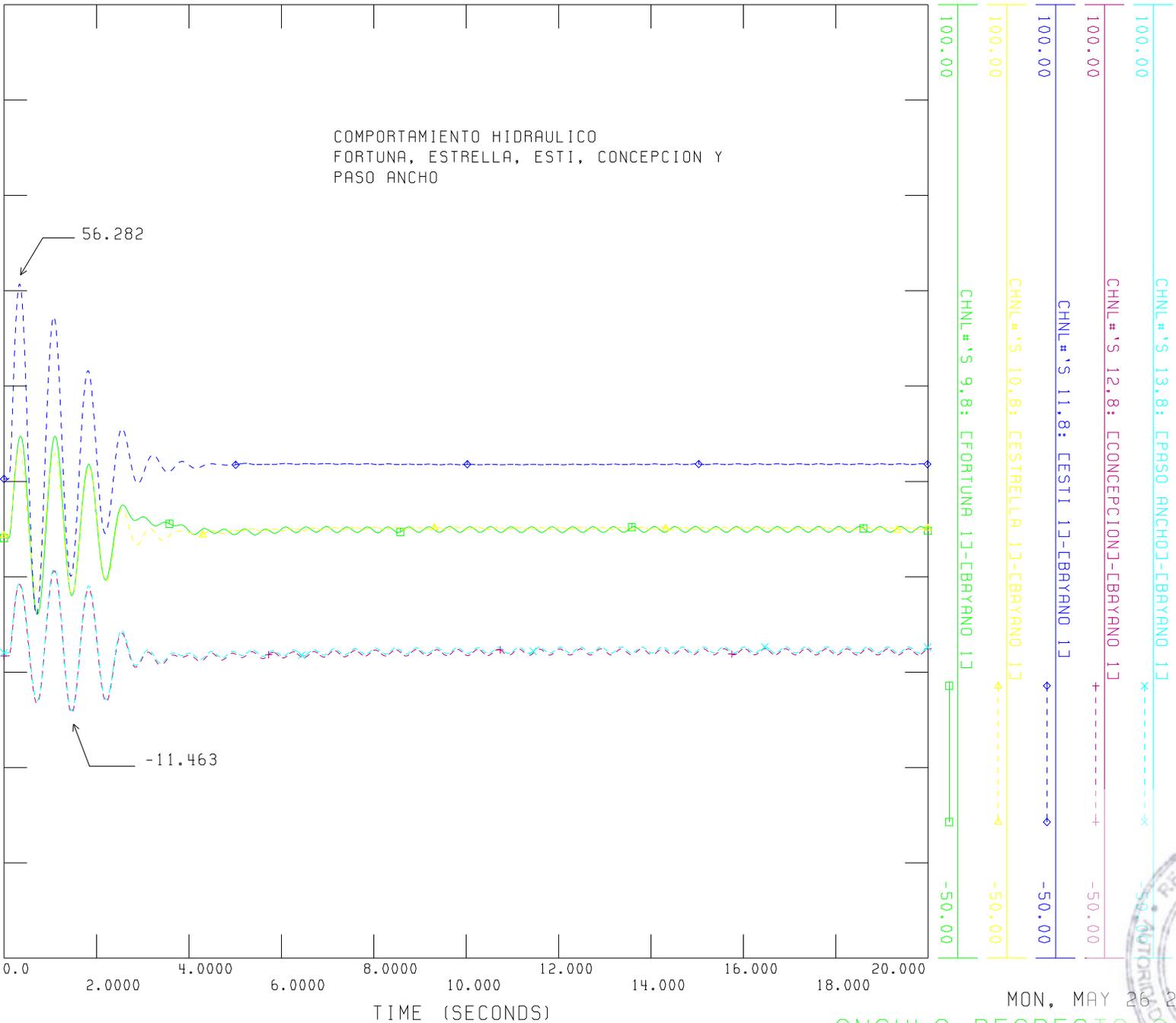
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\ESTABILIDAD 2009\2009PE_ModMax-Inv Con3.out



MON, MAY 26 2008 9:59

ANGULO RESPECTO A BAYANO

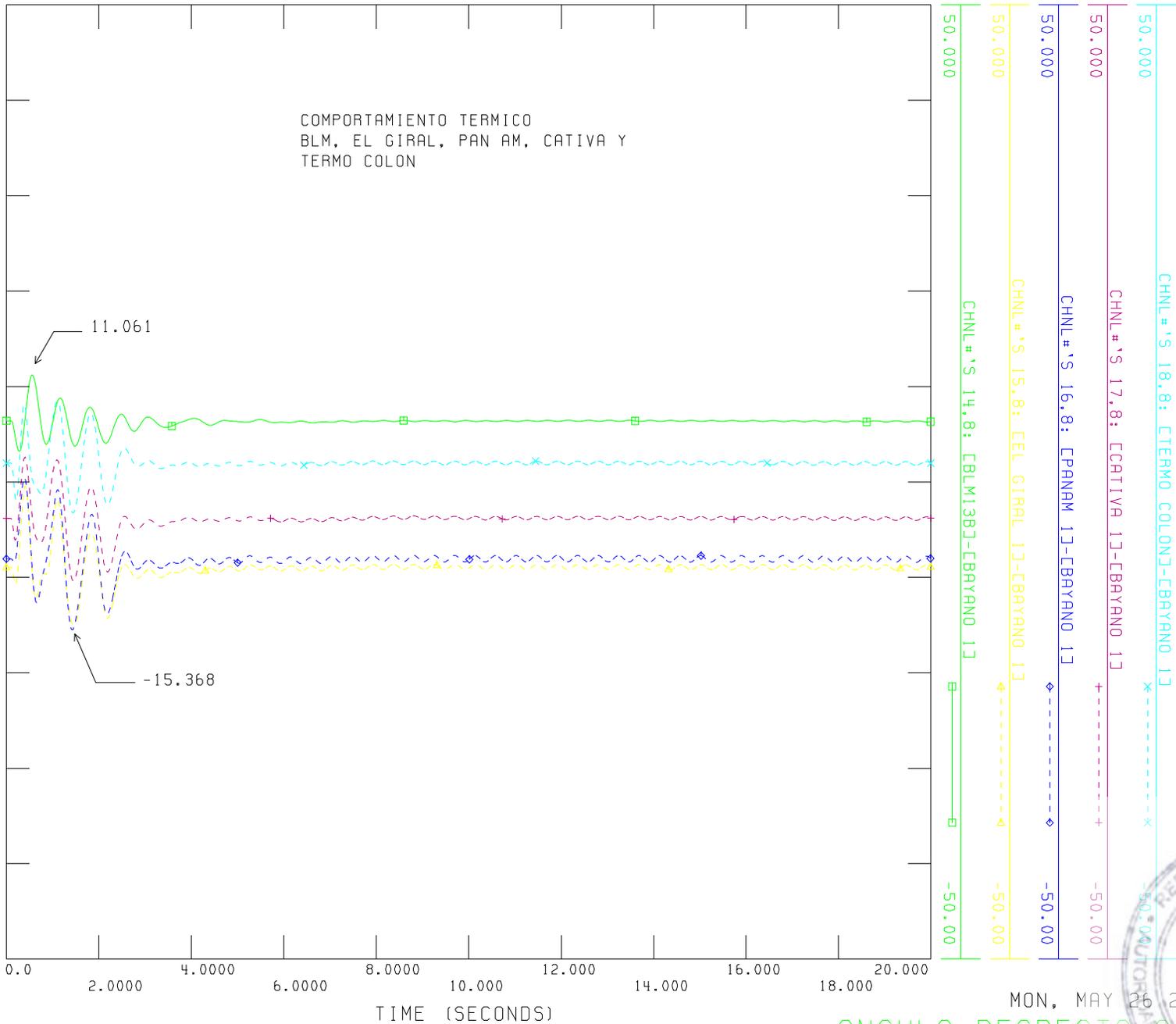




PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Contrib.out

COMPORTAMIENTO TERMICO
 BLM, EL GIRAL, PAN AM, CATIVA Y
 TERMO COLON



MON, MAY 26 2008 10:03

ANGULO RESPECTO A BAYANO

Handwritten signature

**AÑO 2009 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**

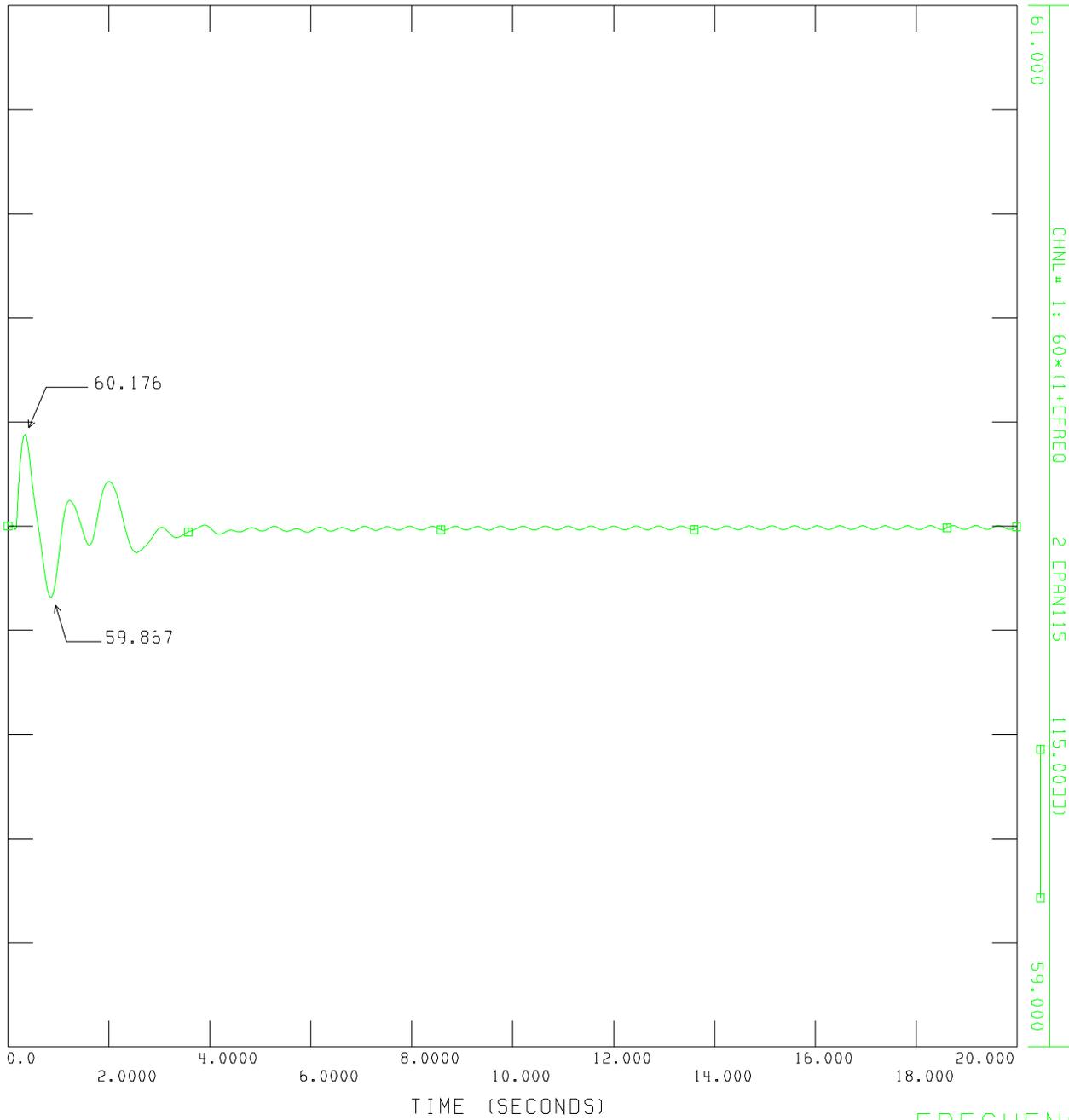


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Conth.out



MON, MAY 26 2008 10:13

FRECUENCIA PANAMA 115 KV

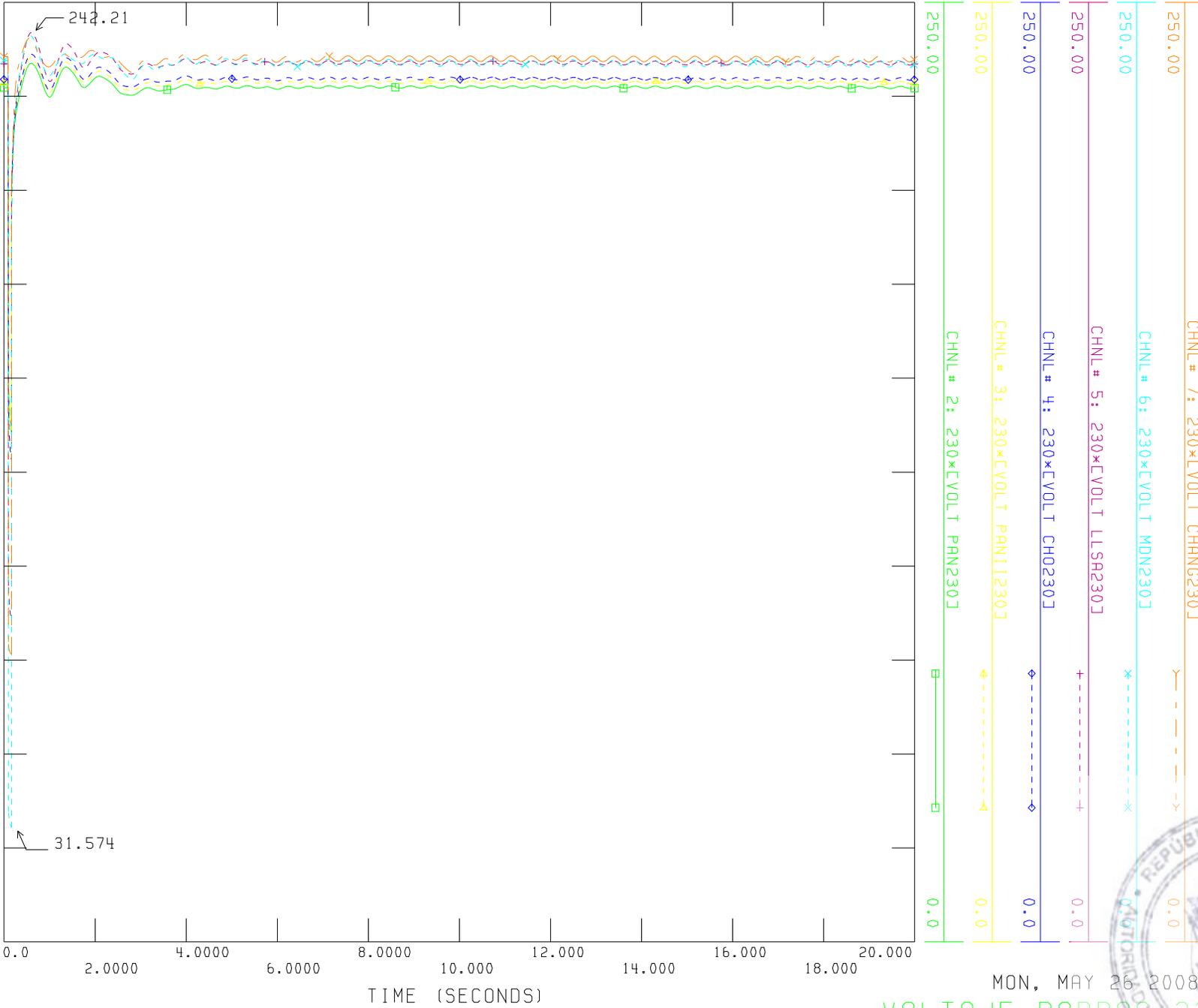


Handwritten signature or initials.



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\ESTABILIDAD 2009\2009PE_ModMax-Inv Condi.out



MON, MAY 26 2008 10:15

VOLTAJE BARRAS 230 KV

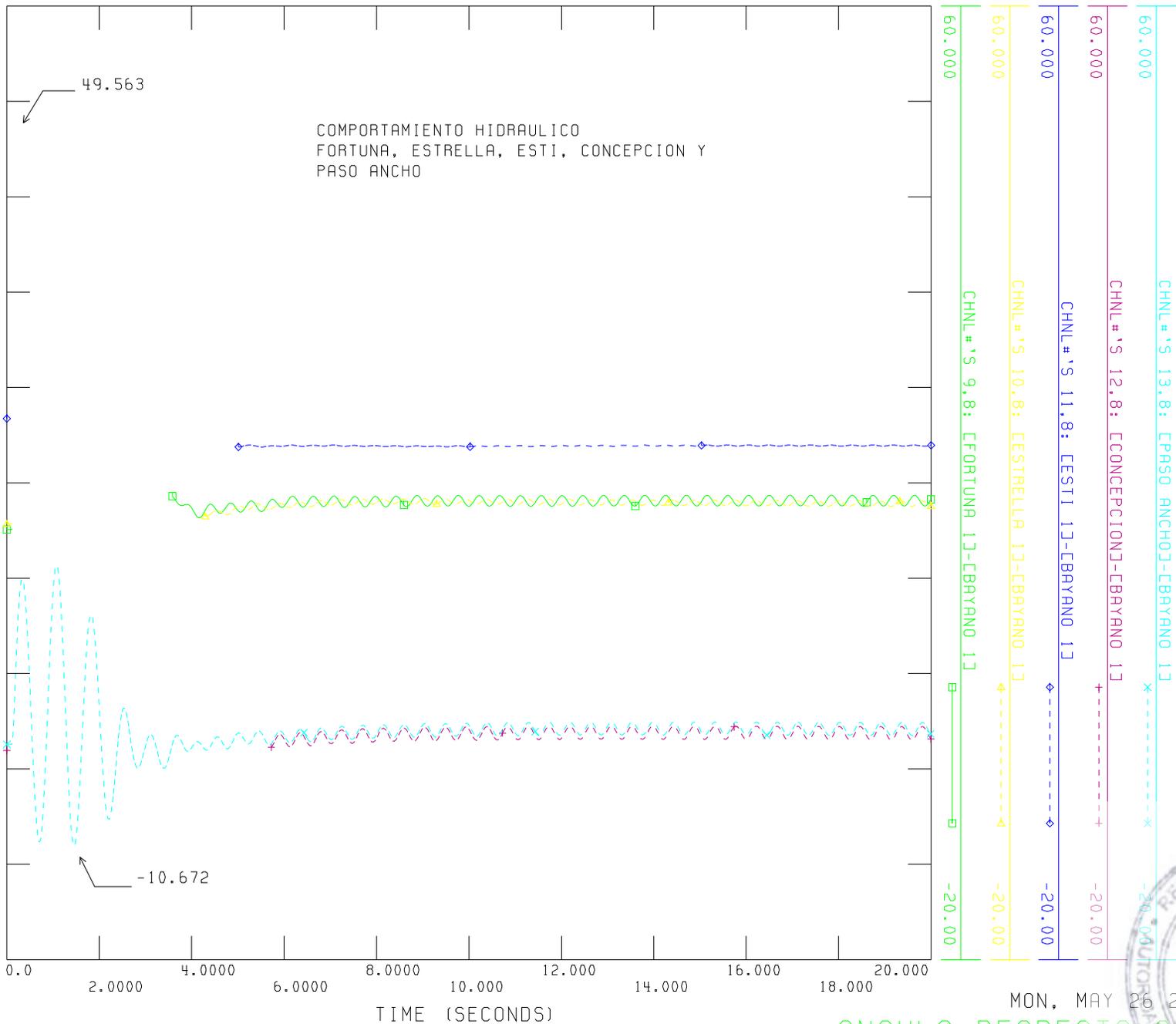
Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Conf.out

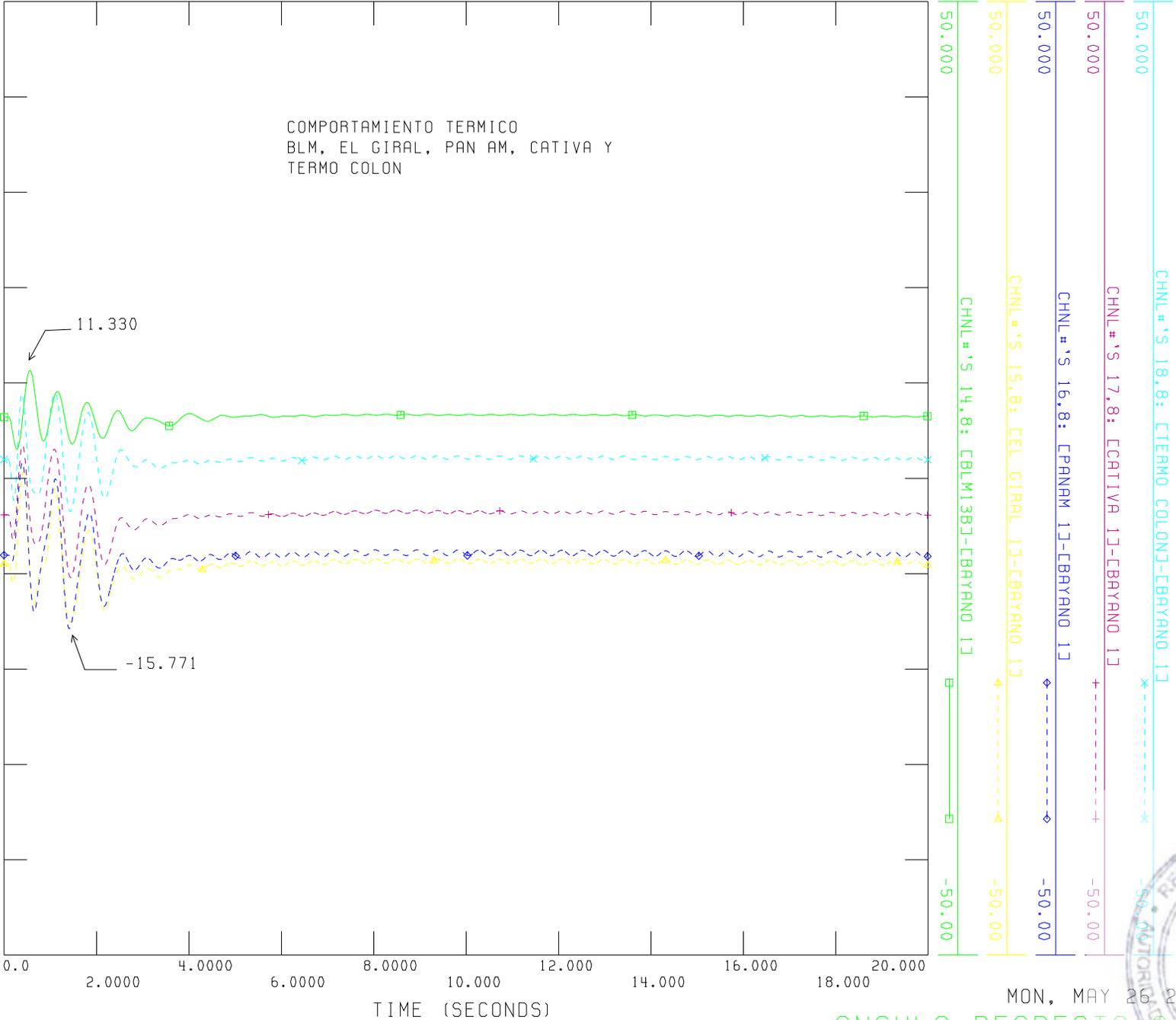
COMPORTAMIENTO HIDRAULICO
FORTUNA, ESTRELLA, ESTI, CONCEPCION Y
PASO ANCHO



MON, MAY 26 2008 10:20

ANGULO RESPECTO A BAYANO

Handwritten signature



MON, MAY 26 2008 10:23
ANGULO RESPECTO A BAYANO

Handwritten signature or initials.

**AÑO 2009 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

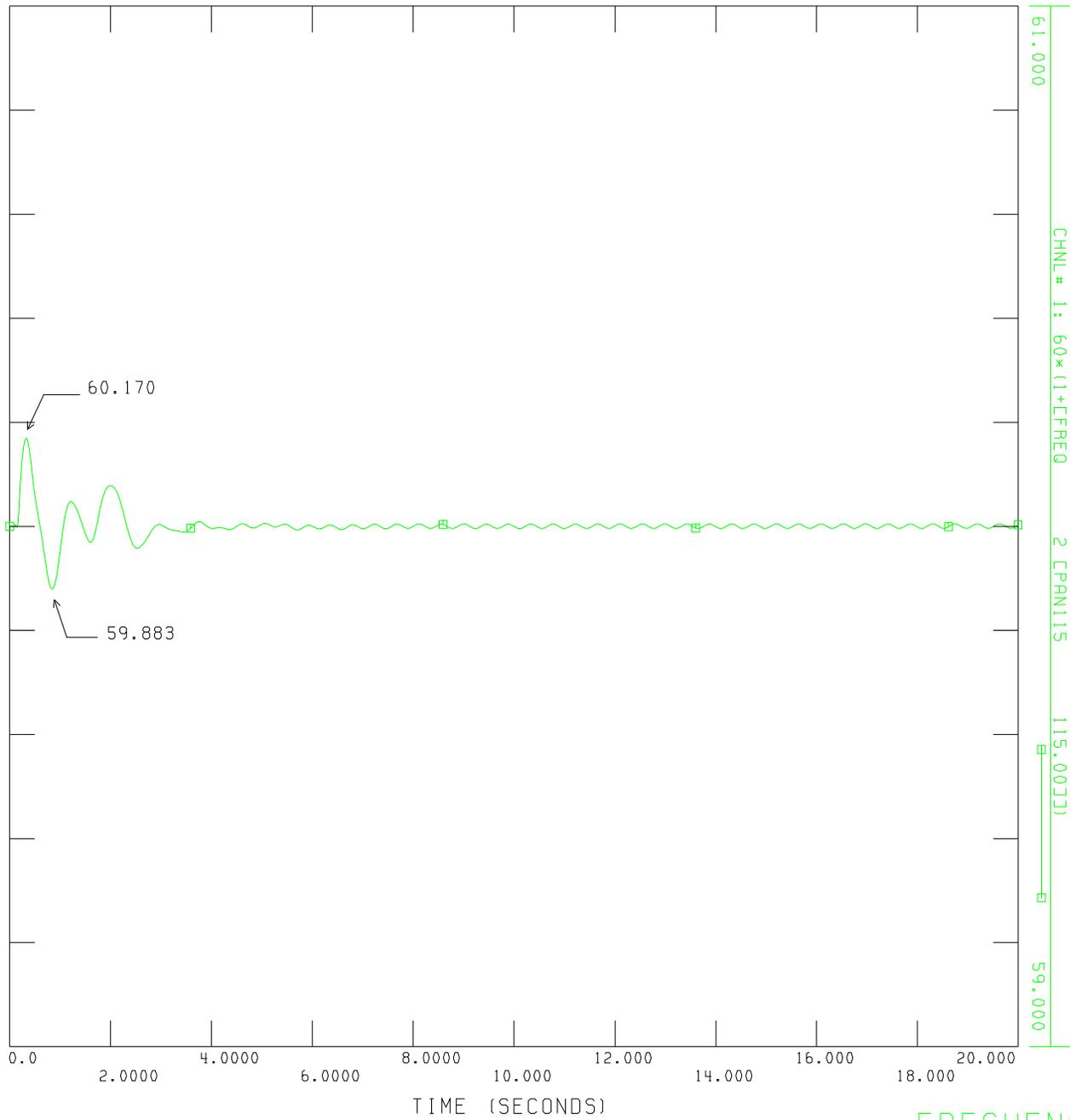


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\NESTABILIDAD 2009\2009PE_ModMax-Inv ConTS.out

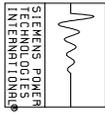


MON, MAY 26 2008 10:32

FRECUENCIA PANAMA 115 KV



Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\ESTABILIDAD 2009\2009PE_ModMax-Inv_Conts.out

CHNL # 7: 230*LVOLT CHANG230J

250.00 - - - - -> -25.00

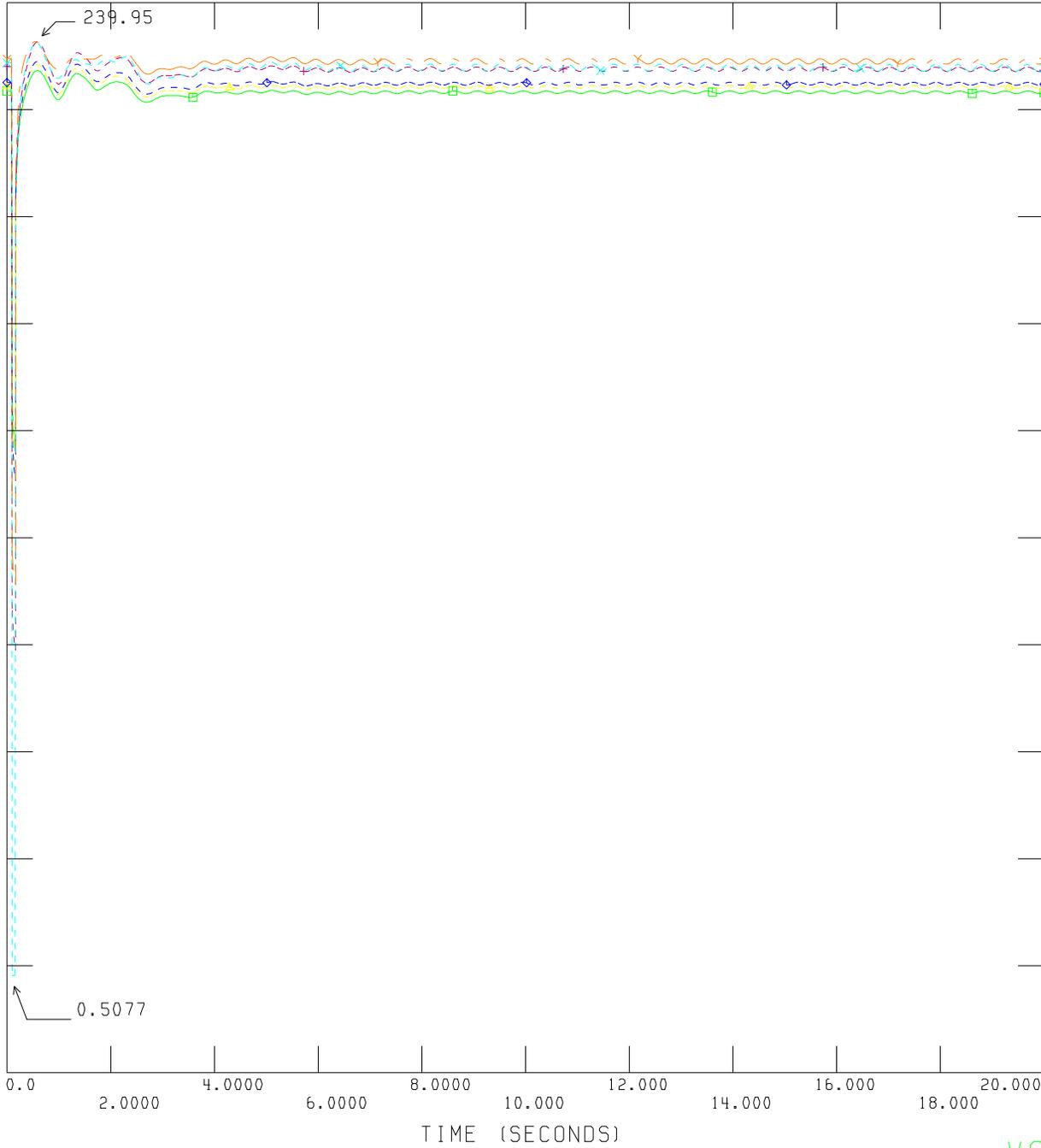
250.00 x - - - - -x -25.00

250.00 + - - - - -+ -25.00

250.00 ◇ - - - - -◇ -25.00

250.00 ◁ - - - - -▷ -25.00

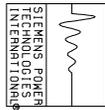
250.00 □ - - - - -□ -25.00



MON, MAY 26 2008 10:34

VOLTAJE BARRAS 230 KV

Handwritten signature

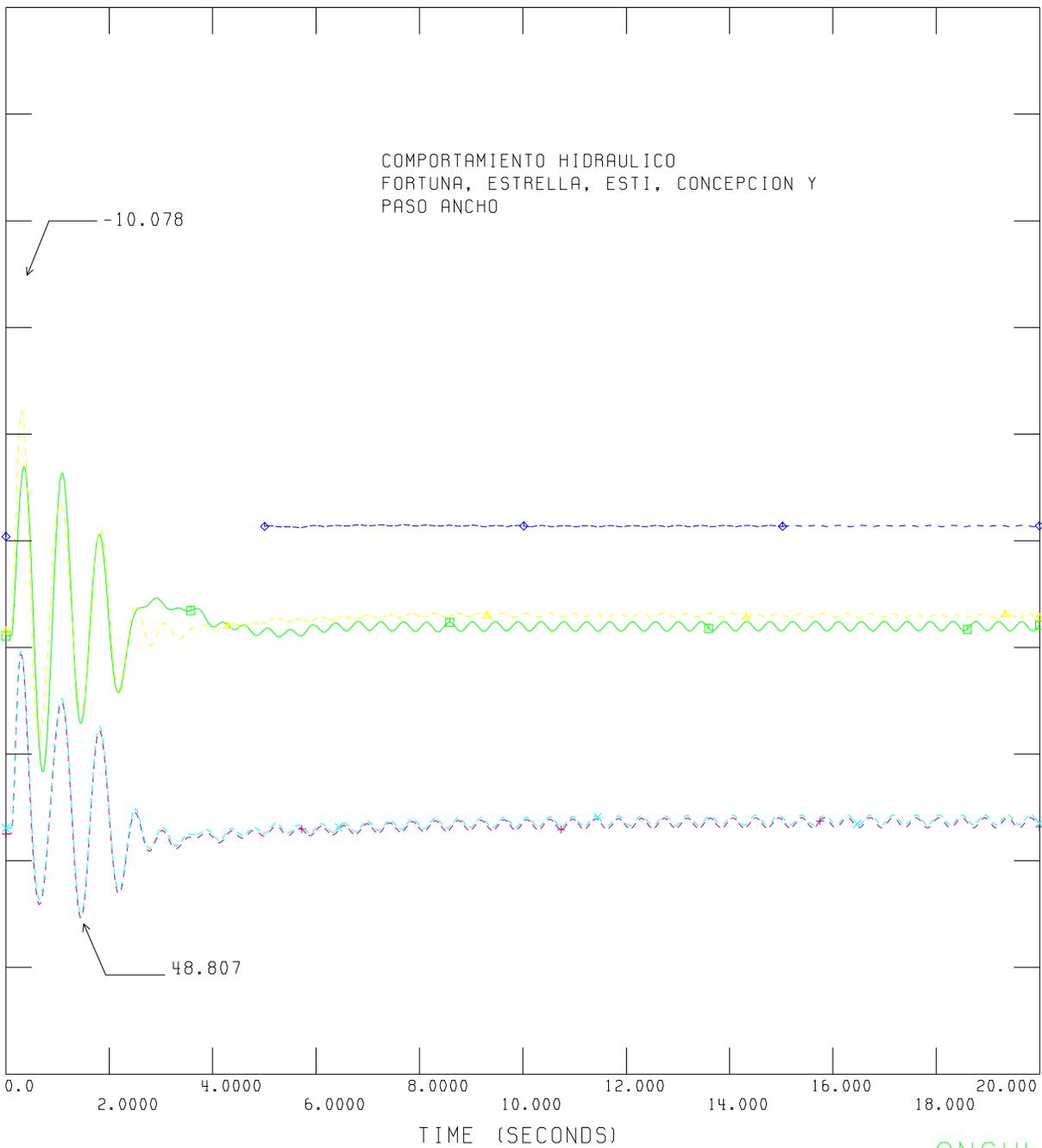


PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv Conts.out

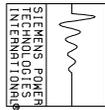


75.000	CHNL# 'S 13,8: [PASO ANCHO]-[BAYANO 13]	x
75.000	CHNL# 'S 12,8: [CONCEPCION]-[BAYANO 13]	+
75.000	CHNL# 'S 11,8: [ESTI 13]-[BAYANO 13]	◇
75.000	CHNL# 'S 10,8: [ESTRELLA 13]-[BAYANO 13]	△
75.000	CHNL# 'S 9,8: [FORTUNA 13]-[BAYANO 13]	□
75.000		



MON, MAY 26 2008 10:38

ANGULO RESPECTO A BAYANO



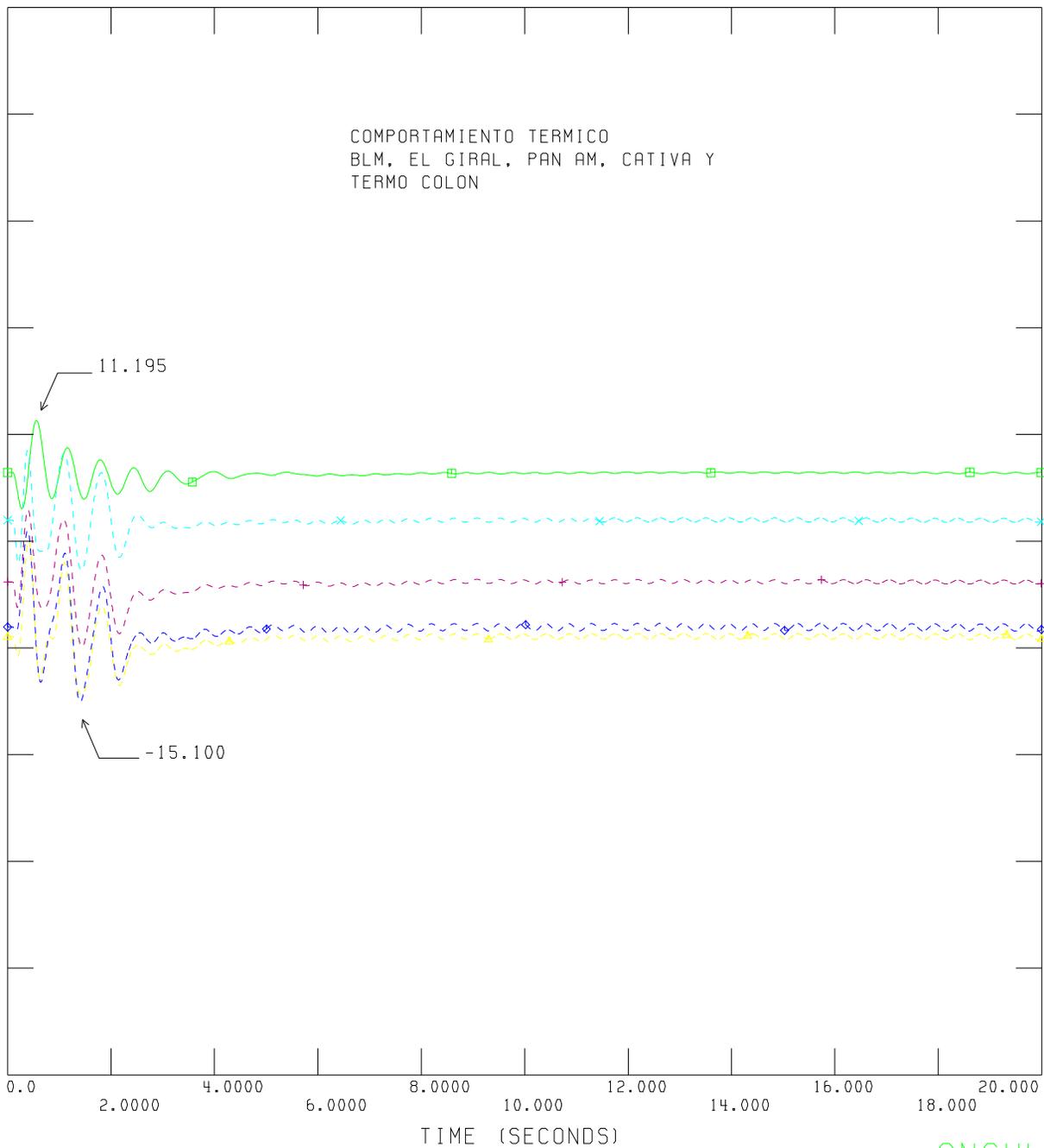
PLAN.: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2009

FILE: C:\DISCO D\...\VESTABILIDAD 2009\2009PE_ModMax-Inv_Conf5.out



50.000 CHNL#'S 18,8: [TERMO COLON]-[BAYANO 1] *
50.000 CHNL#'S 17,8: [CATIVA 1]-[BAYANO 1] +
50.000 CHNL#'S 16,8: [PANAM 1]-[BAYANO 1] ◆
50.000 CHNL#'S 15,8: [EL GIRAL 1]-[BAYANO 1] ▲
50.000 CHNL#'S 14,8: [BLM13B]-[BAYANO 1] □

COMPORTAMIENTO TERMICO
BLM, EL GIRAL, PAN AM, CATIVA Y
TERMO COLON



MON, MAY 26 2008 10:41

ANGULO RESPECTO A BAYANO

Handwritten signature

2010



de

**AÑO 2010 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**

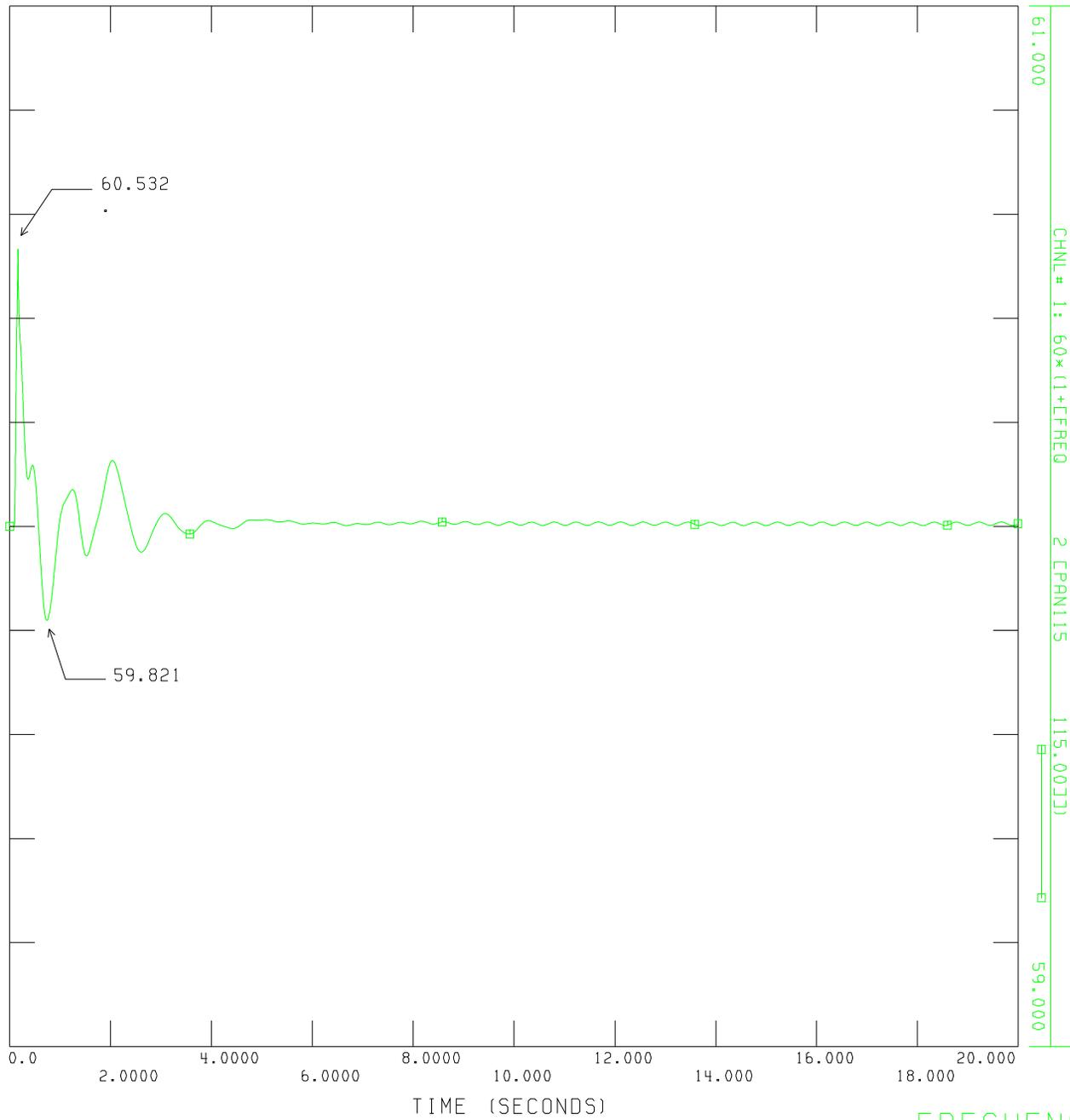


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\NESTABILIDAD 2010\2010PE_ModMax-Inv_Conf1.out



MON, MAY 26 2008 11:11

FRECUENCIA PANAMA 115 KV



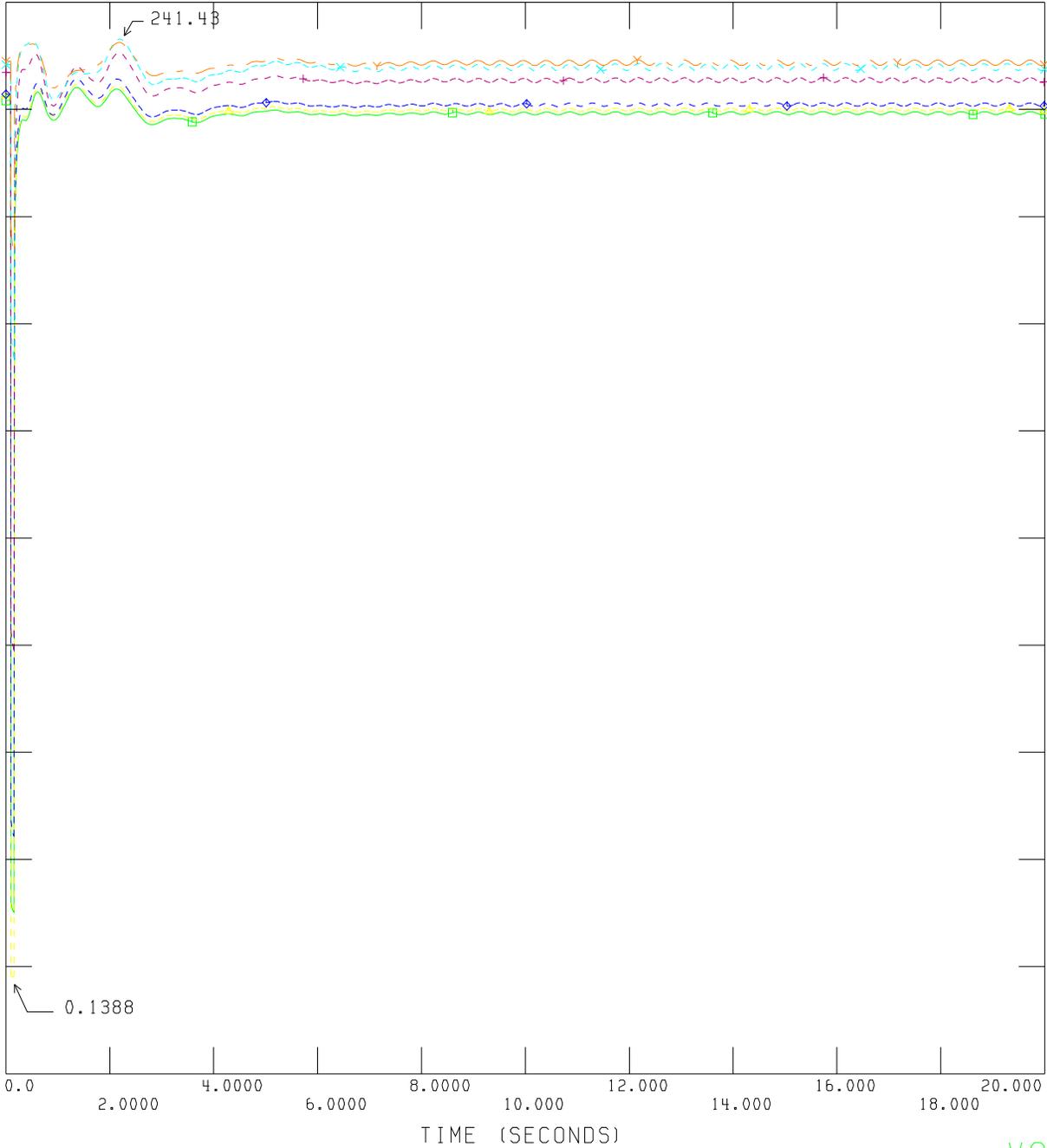
Handwritten signature or initials.



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv_Conf1.out

250.00	CHNL # 7: 230*[VOLT CHAN6230]
250.00	CHNL # 6: 230*[VOLT MDN230]
250.00	CHNL # 5: 230*[VOLT LLSR230]
250.00	CHNL # 4: 230*[VOLT CH0230]
250.00	CHNL # 3: 230*[VOLT PAN11230]
250.00	CHNL # 2: 230*[VOLT PAN230]

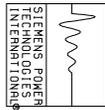


MON, MAY 26 2008 11:24

VOLTAJE BARRAS 230 KV

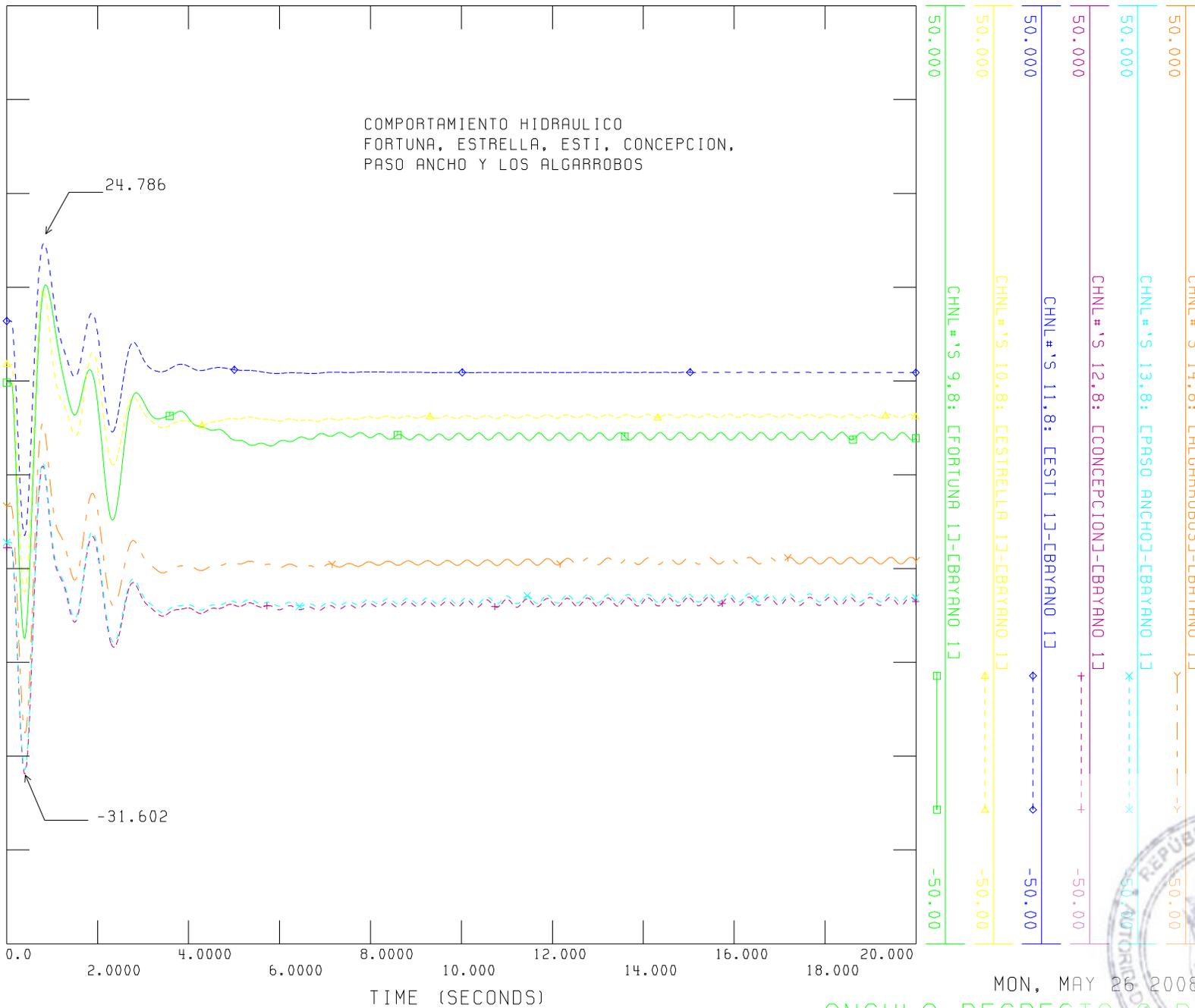


Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv_Conf1.out

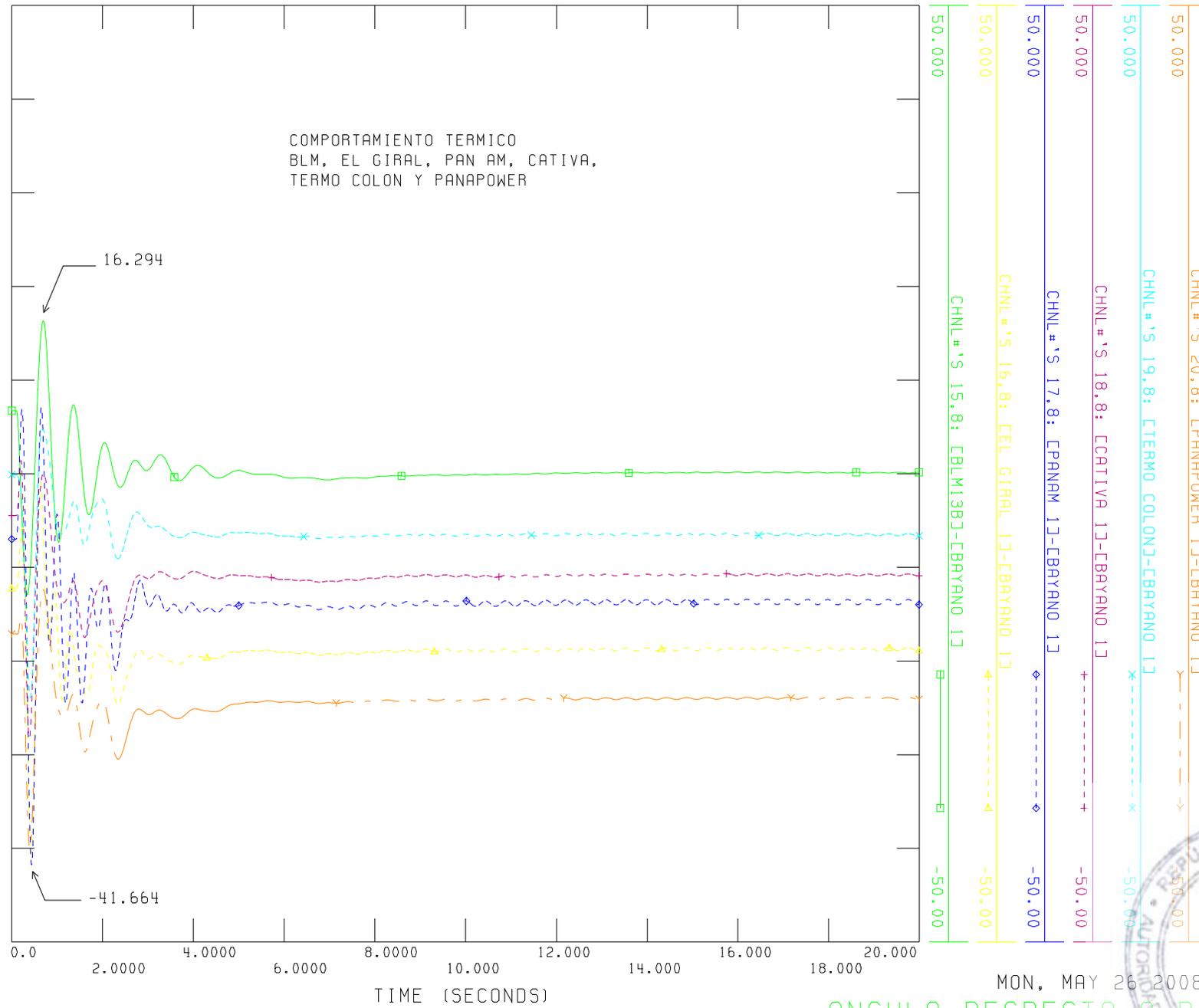


Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\... \ESTABILIDAD 2010\2010PE_ModMax-Inv_Conf1.out



MON, MAY 26 2008 11:38

ANGULO RESPECTO A BAYANO



AÑO 2010 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II- LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8

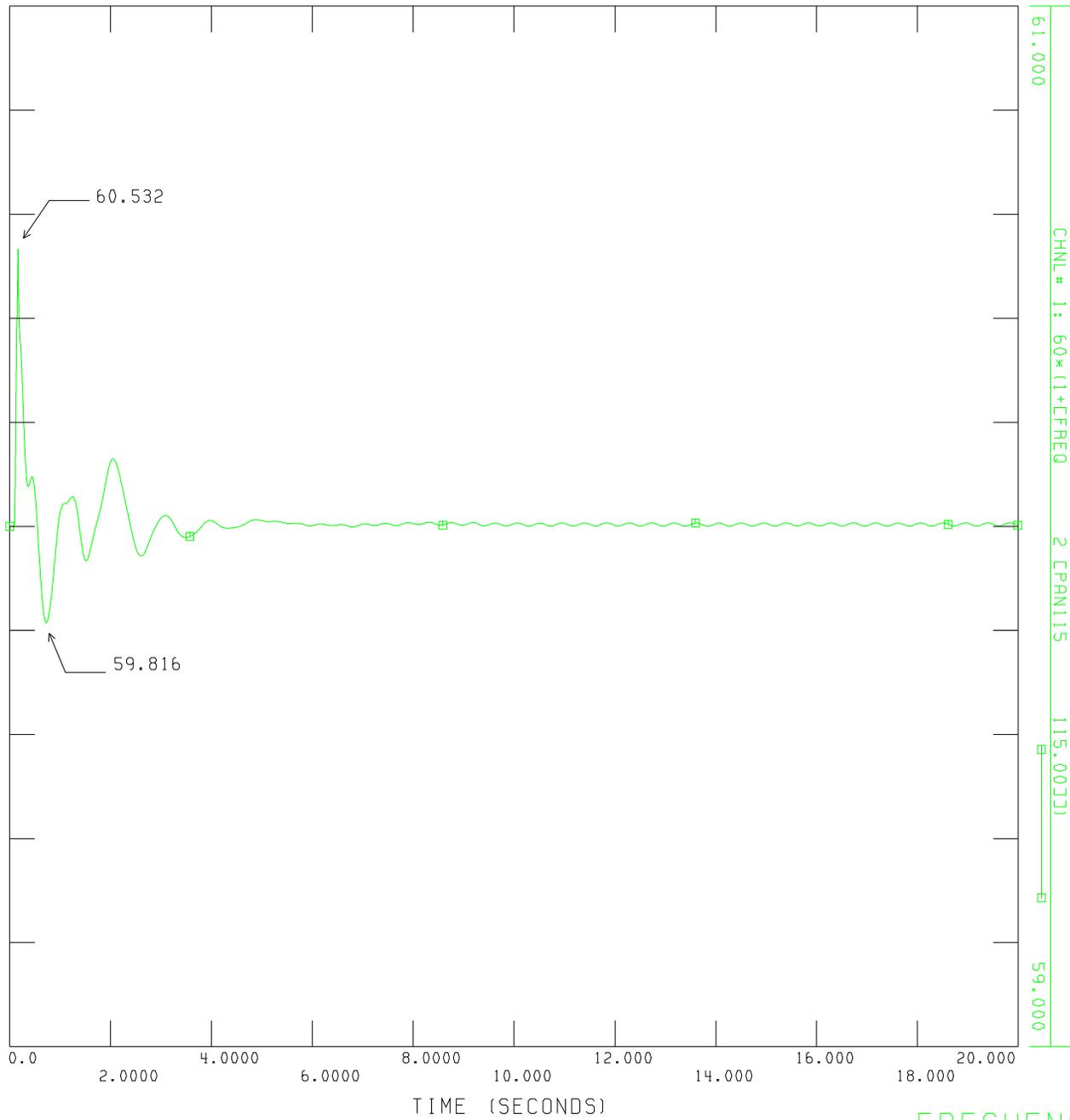


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\NESTABILIDAD 2010\2010PE_ModMax-Inv_Contr2.out



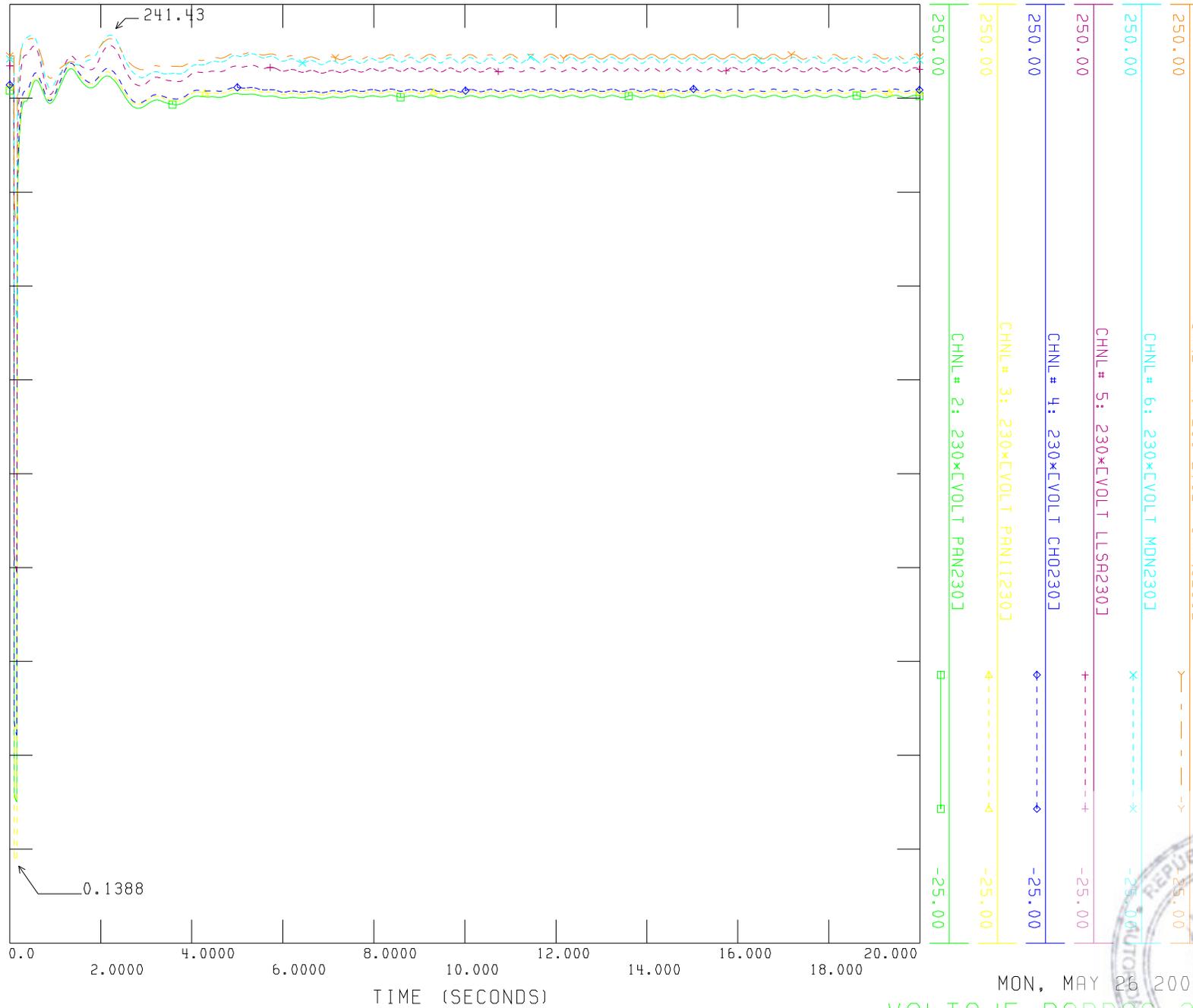
MON, MAY 26 2008 13:08

FRECUENCIA PANAMA 115 KV



Handwritten signature or initials

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv_Contr2.out



MON, MAY 26 2008 13:11
VOLTAJE BARRAS 230 KV

Handwritten signature or initials.

**AÑO 2010 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

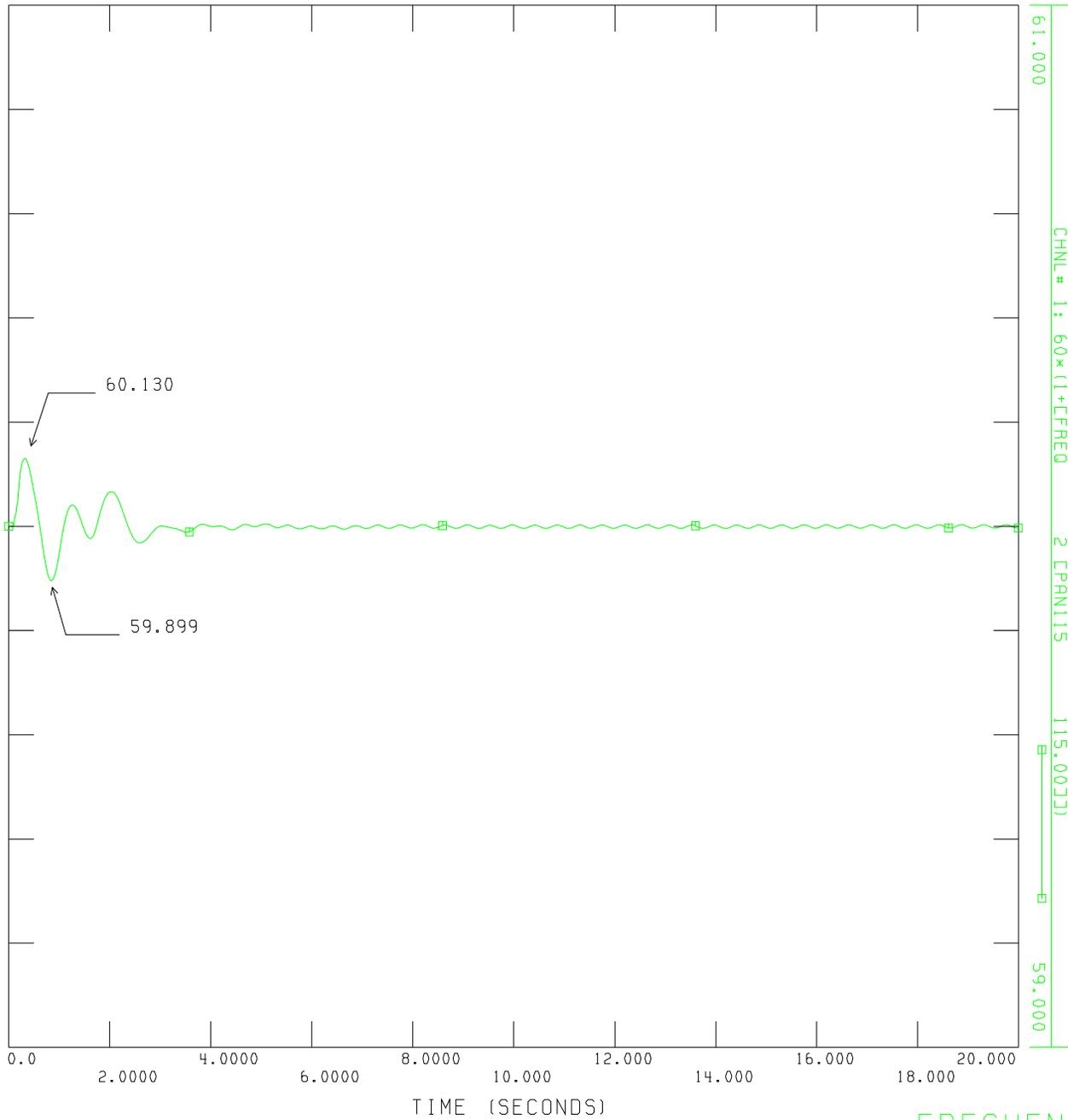


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv Con 3,0 out



MON, MAY 26 2008 13:27

FRECUENCIA PANAMA 115 KV

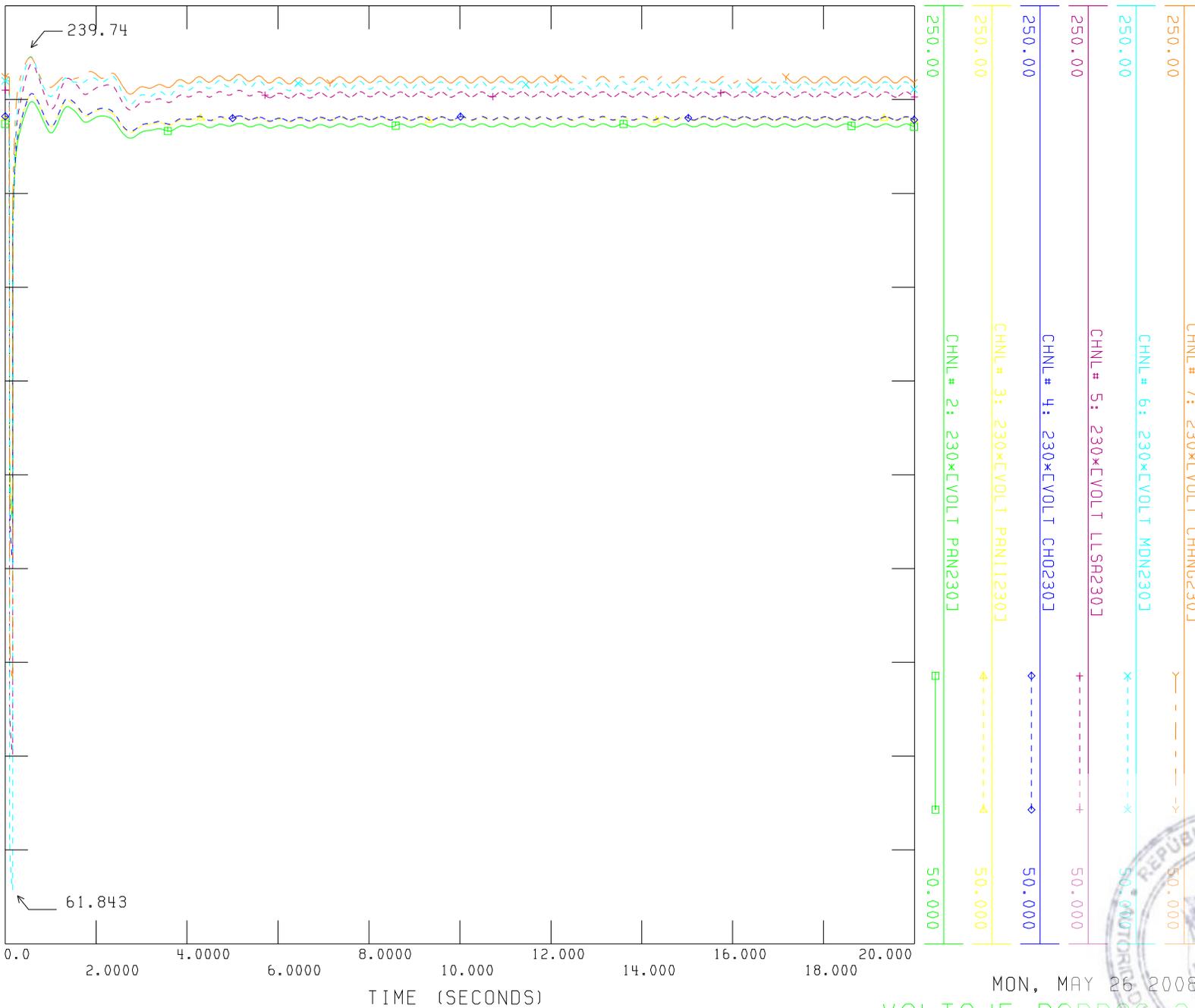


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv_Contr.out



MON, MAY 26 2008 13:36

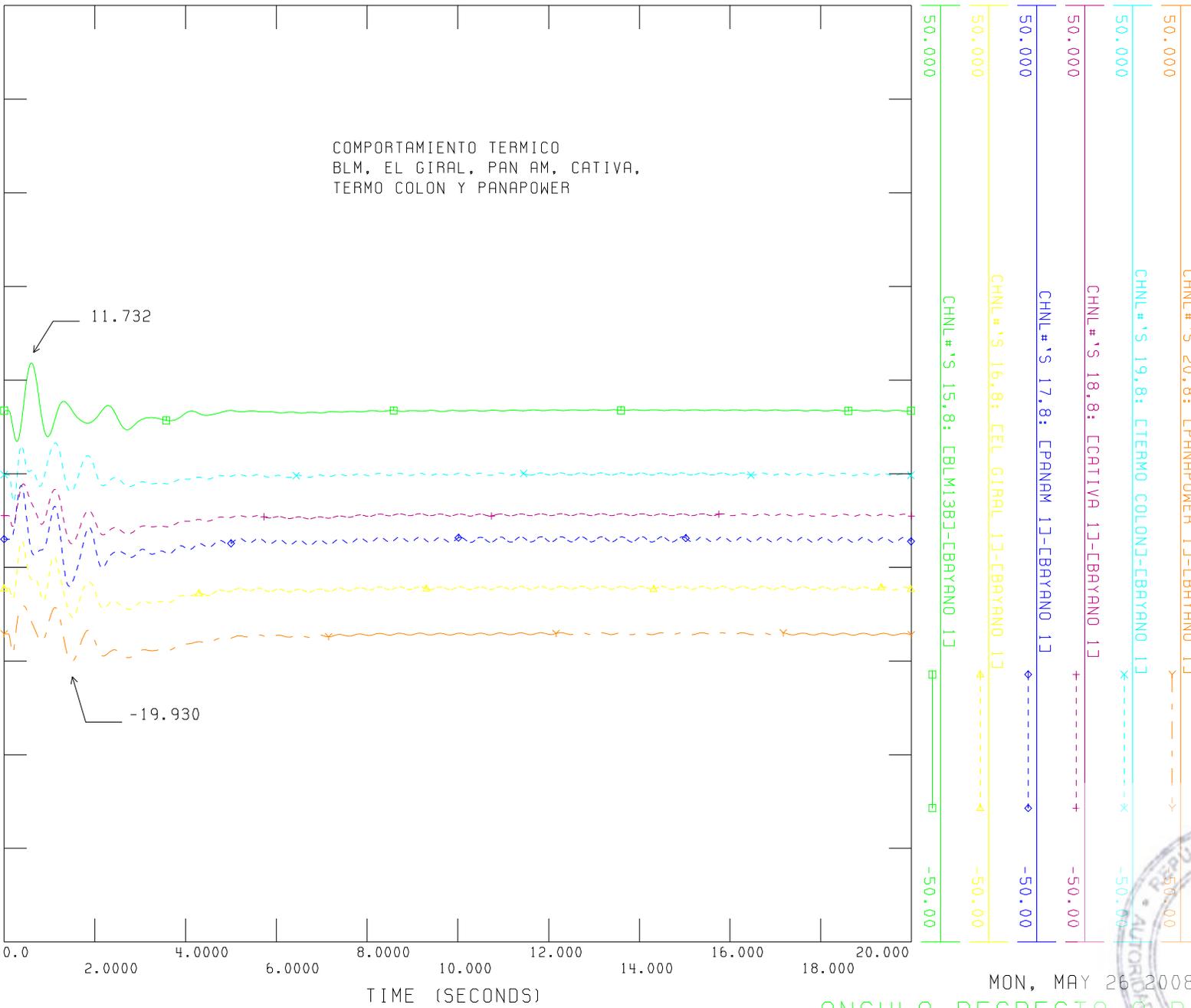
VOLTAGE BARRAS 230 KV





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv_Contr3.out



MON, MAY 26 2008 13:52

ANGULO RESPECTO A BAYANO



**AÑO 2010 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**

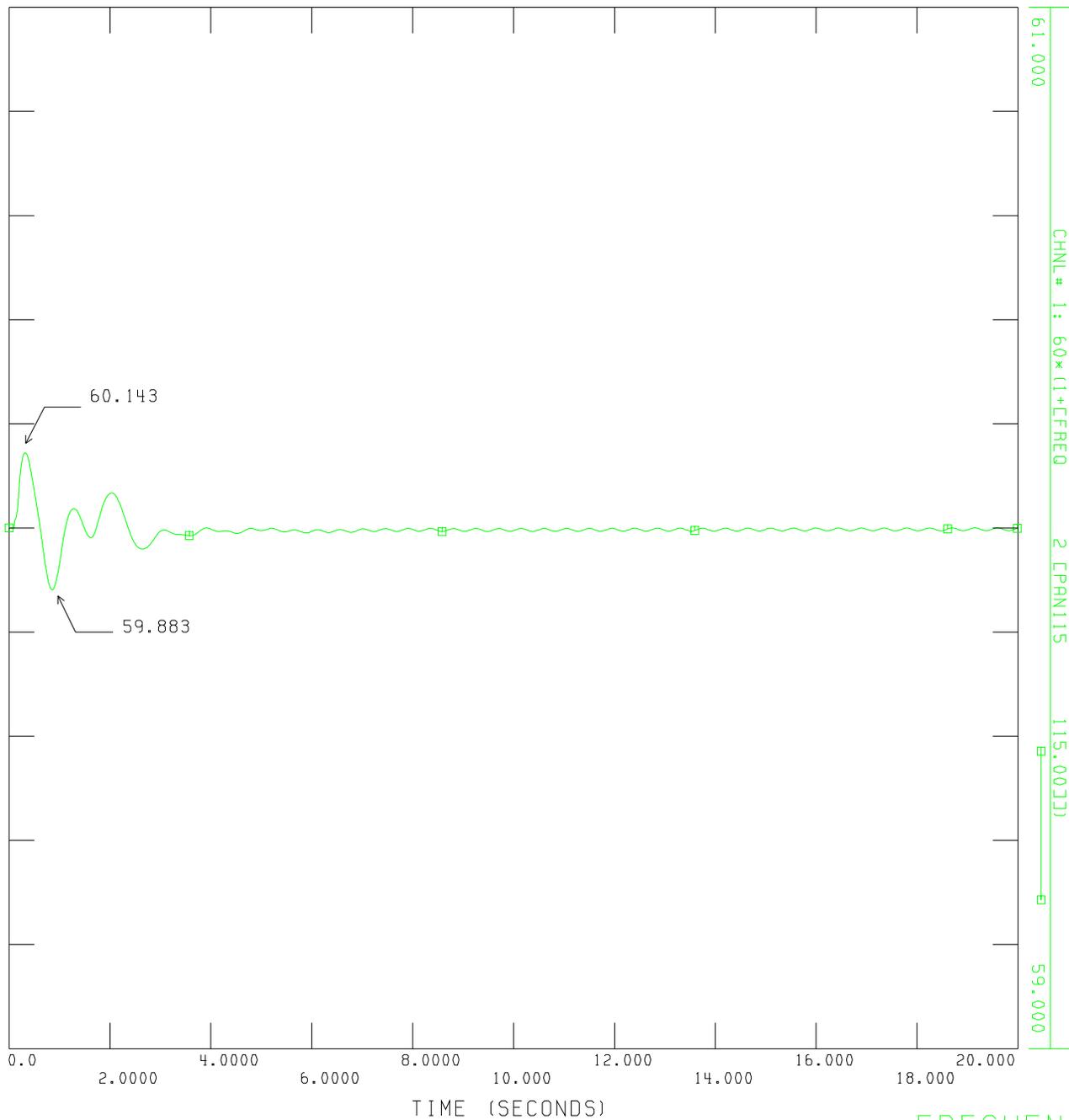


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\ESTABILIDAD 2010\2010PE_ModMax-Inv_Conf4.out



MON, MAY 26 2008 13:59

FRECUENCIA PANAMA 115 KV

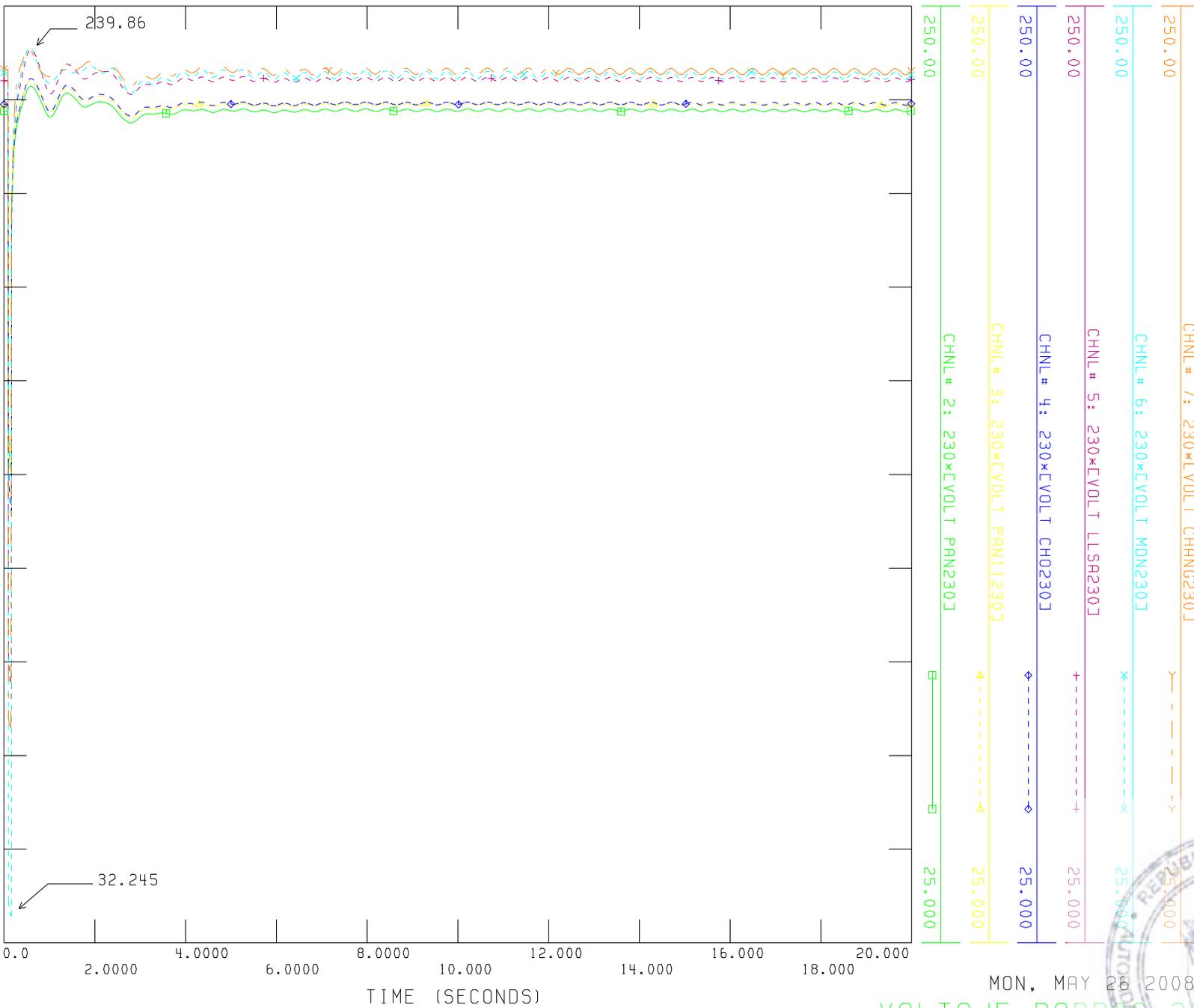


de



PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\ESTABILIDAD 2010\2010PE_ModMax-Inv Conductor



MON, MAY 26 2008 14:03
VOLTAJE BARRAS 230 KV

Handwritten signature

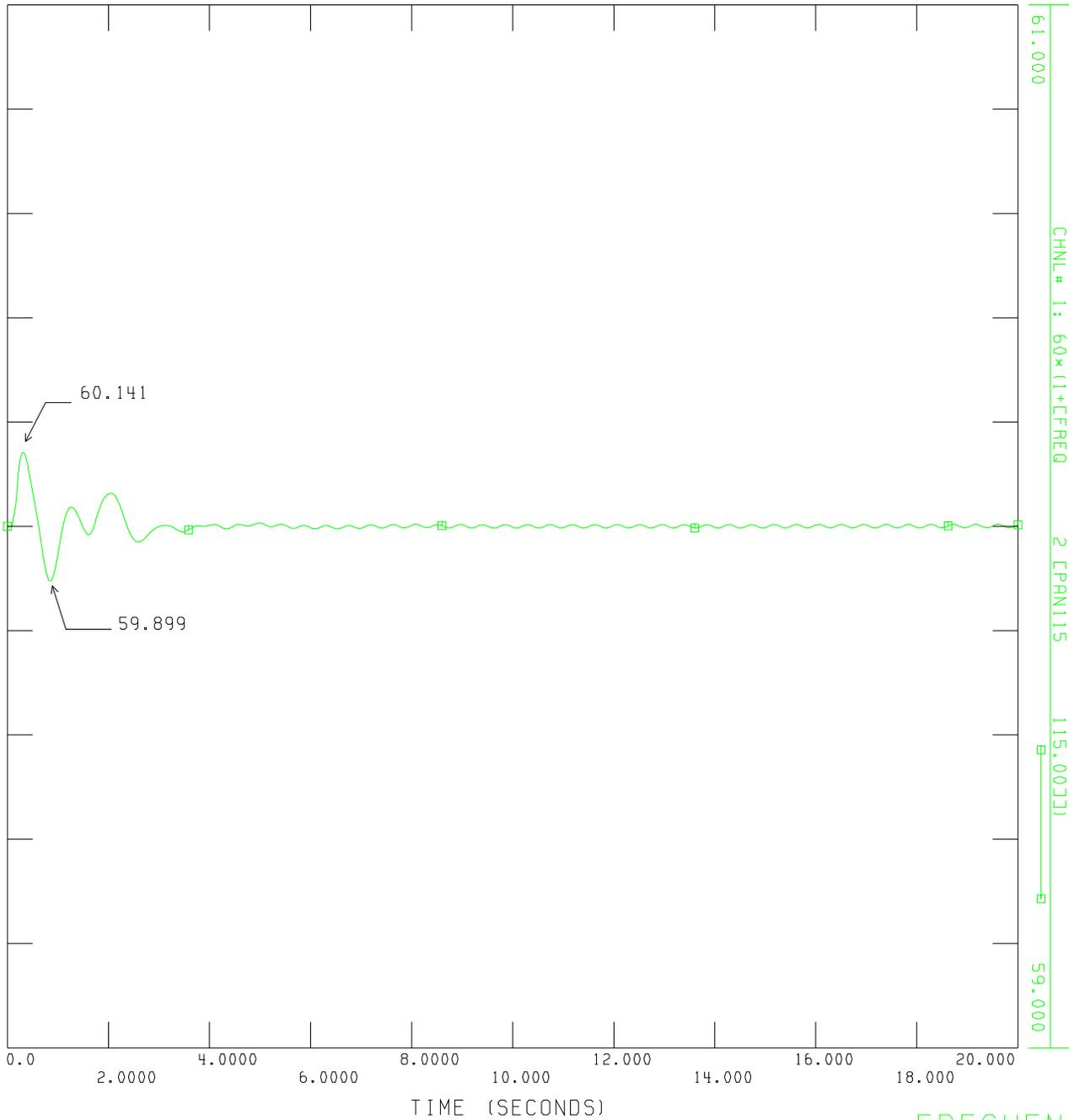
**AÑO 2010 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**





PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

FILE: C:\DISCO D\...\VESTABILIDAD 2010\2010PE_ModMax-Inv Conts.out



MON, MAY 26 2008 14:40

FRECUECIA PANAMA 115 KV

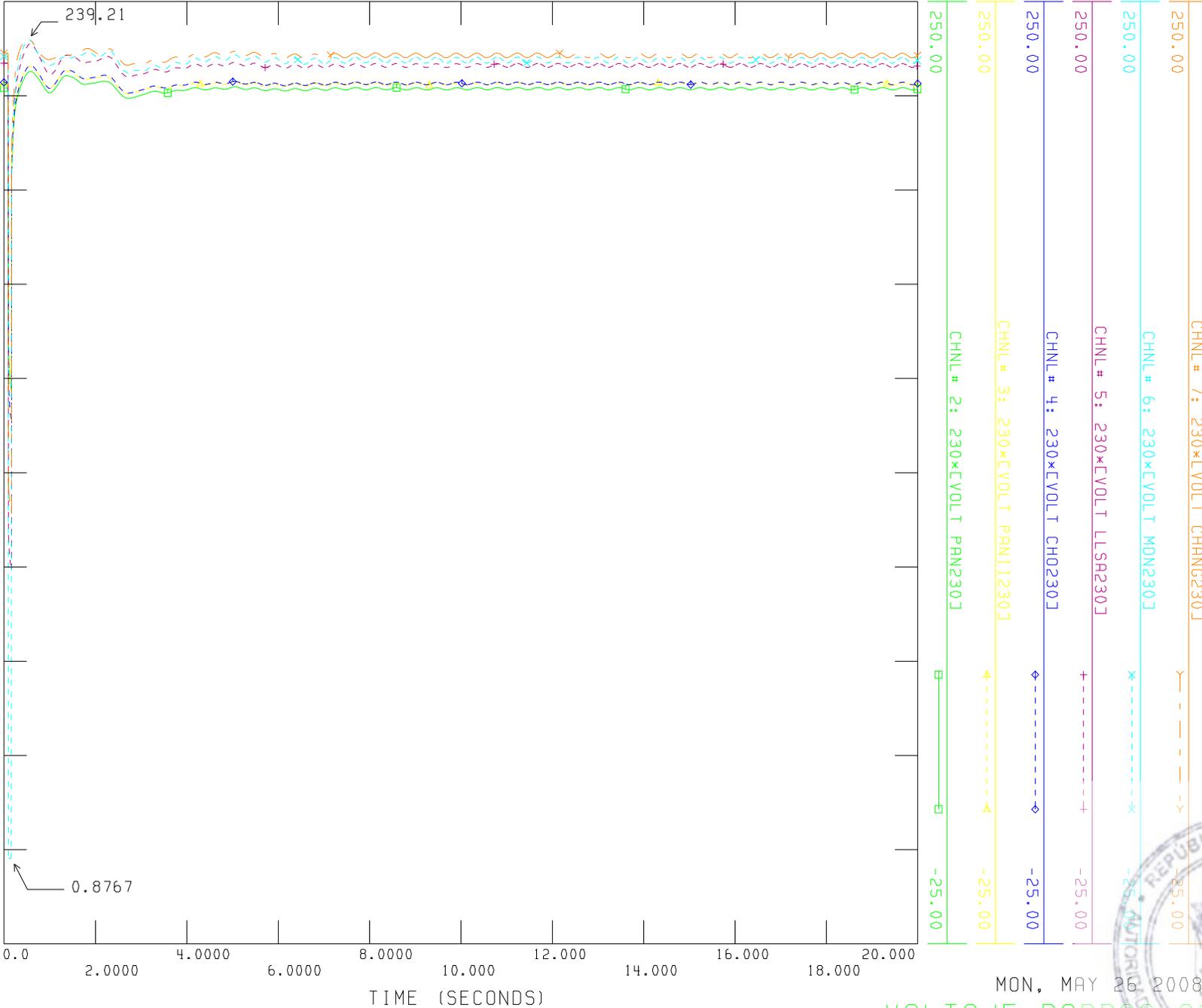


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2010

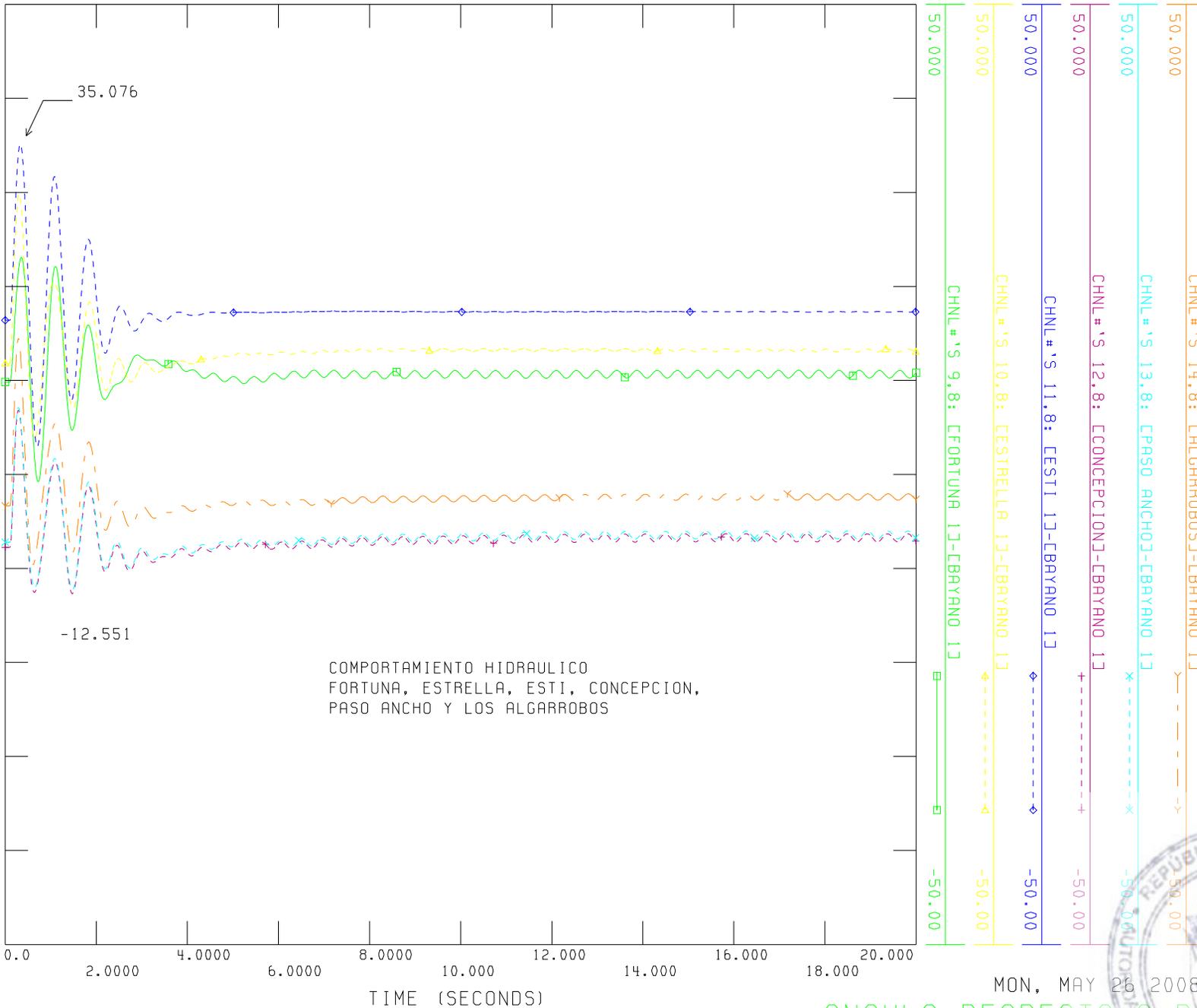
FILE: C:\DISCO D\...\ESTABILIDAD 2010\2010PE_ModMax-Inv_Conf5.out



MON, MAY 26 2008 14:45
VOLTAJE BARRAS 230 KV

Handwritten signature

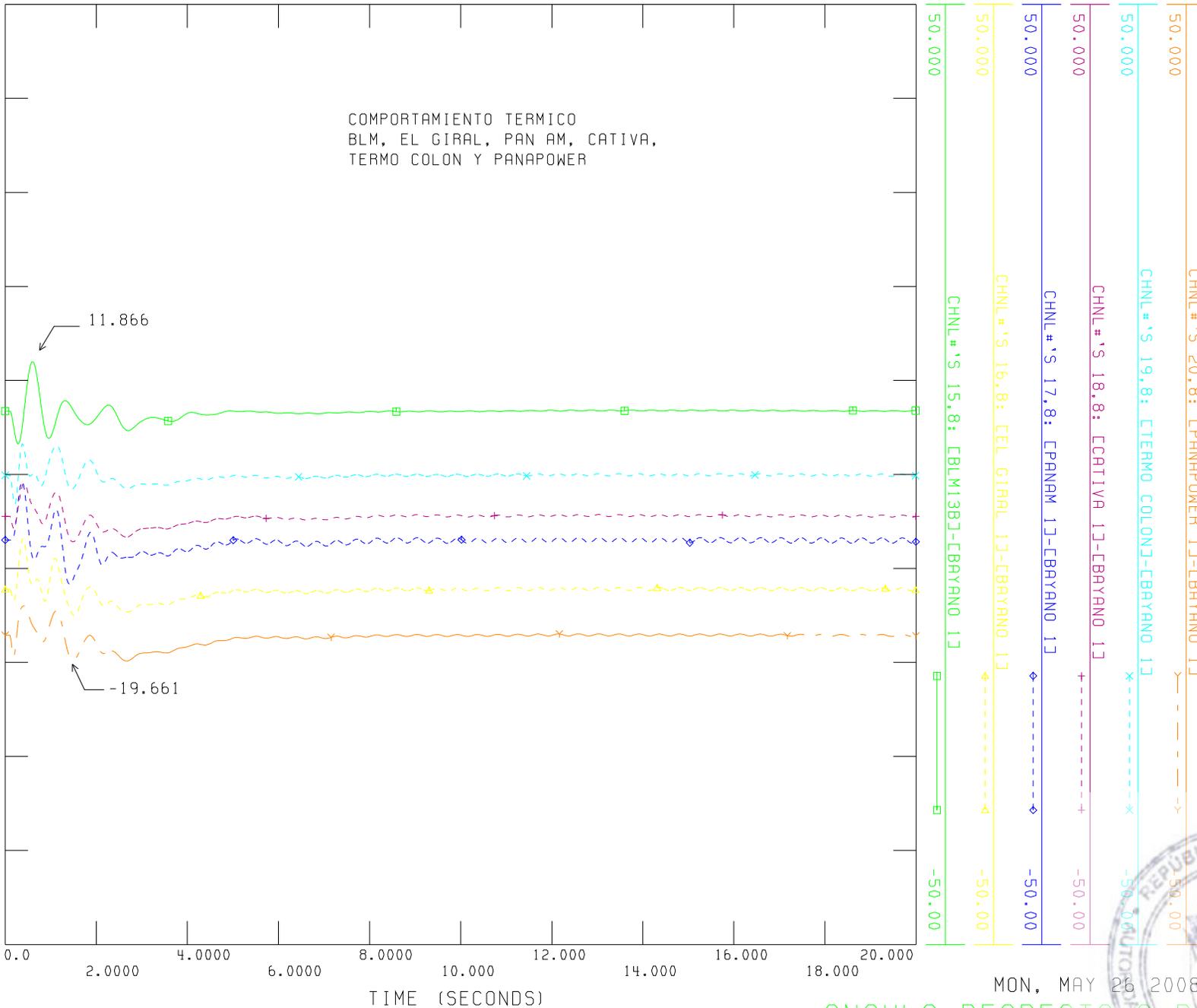
FILE: C:\DISCO D\...VESTABILIDAD 2010\2010PE_ModMax-Inv_Cnts.out



ANGULO RESPECTO A BAYANO

Handwritten signature or initials.

FILE: C:\DISCO D\... \ESTABILIDAD 2010\2010PE_ModMax-Inv_Conts.out



MON, MAY 26 2008 15:09

ANGULO RESPECTO A BAYANO



Handwritten signature or initials.

2011

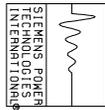


de

**AÑO 2011 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTLA8**

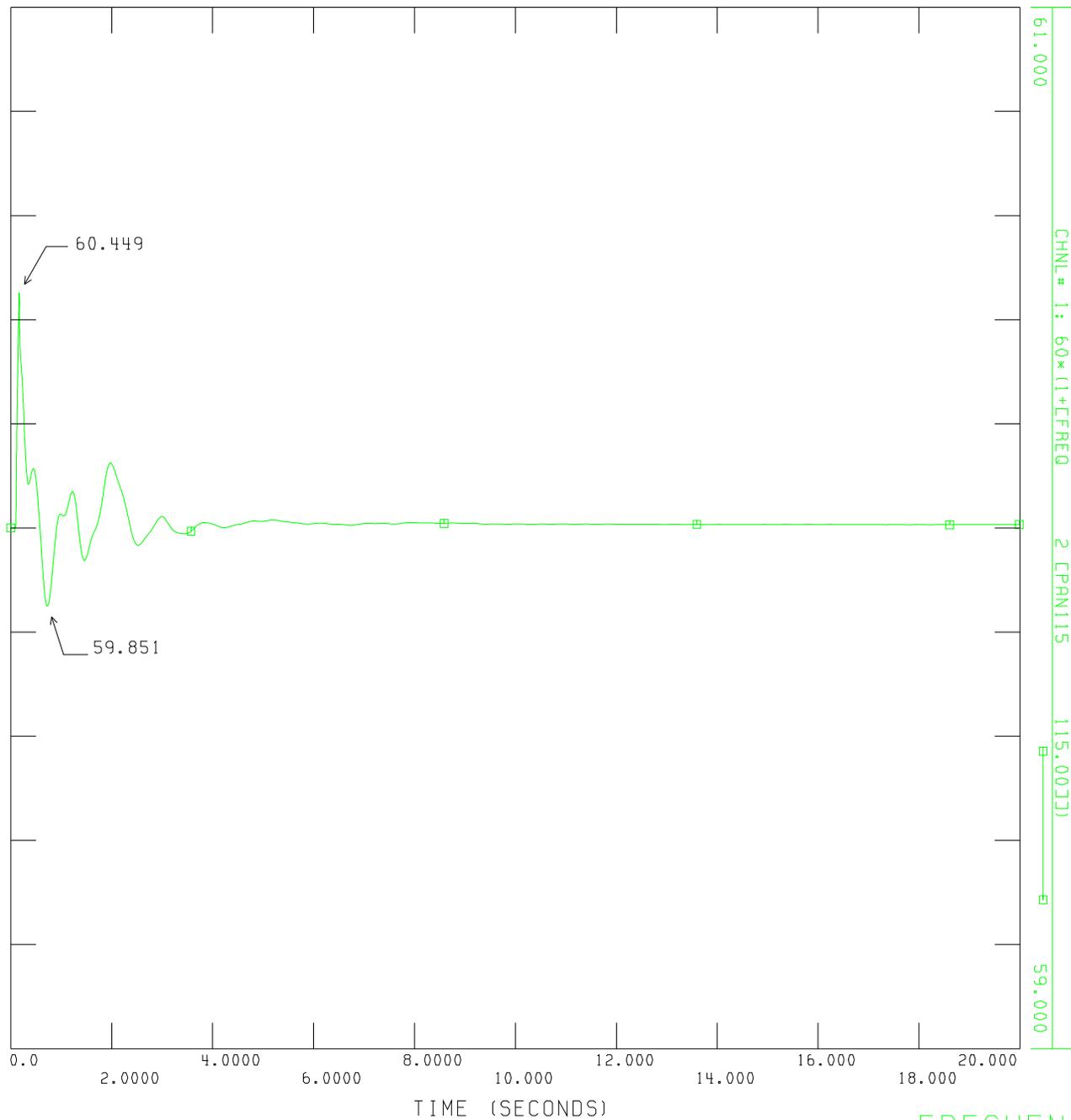


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO DV...\ESTABILIDAD 2011\2011PE_ModMax-Inv Cont1.out



MON, MAY 26 2008 16:02

FRECUENCIA PANAMA 115 KV

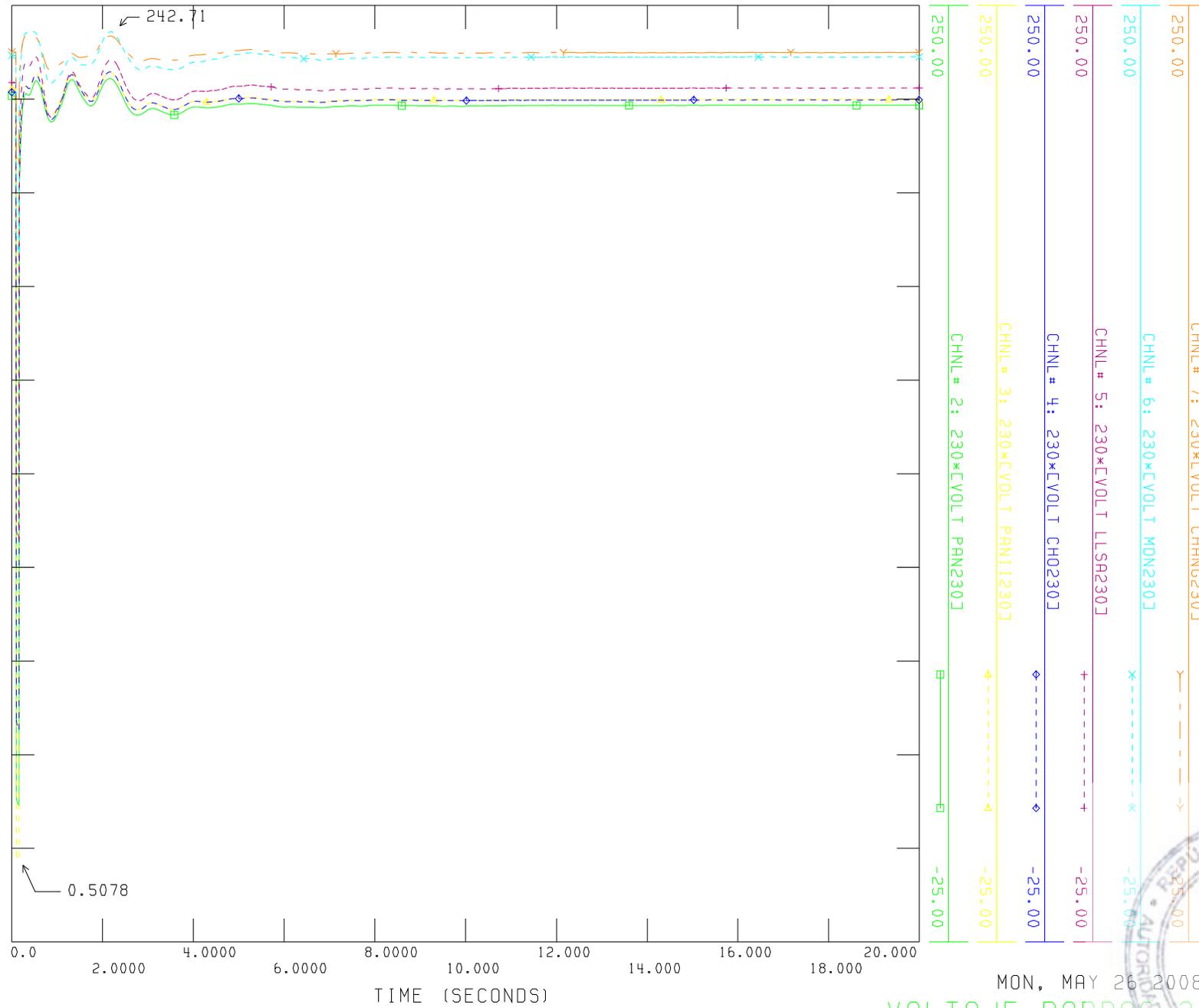


Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\NESTABILIDAD 2011\2011PE_ModMax-Inv_Conf1.out



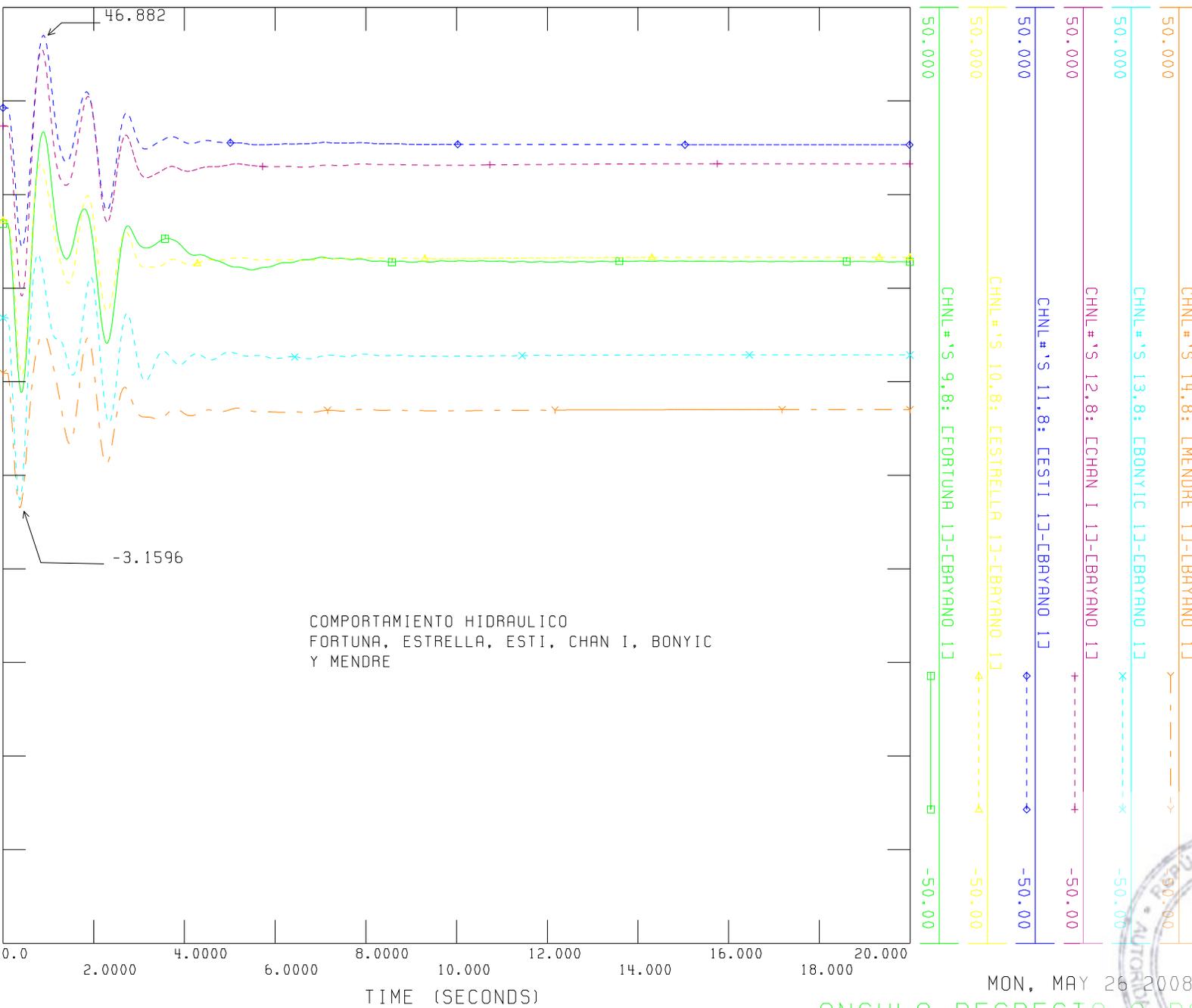
MON, MAY 26 2008 16:07
VOLTAJE BARRAS 230 KV





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv Confl. OUT

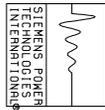


MON, MAY 26 2008 16:10

ANGULO RESPECTO A BAYANO

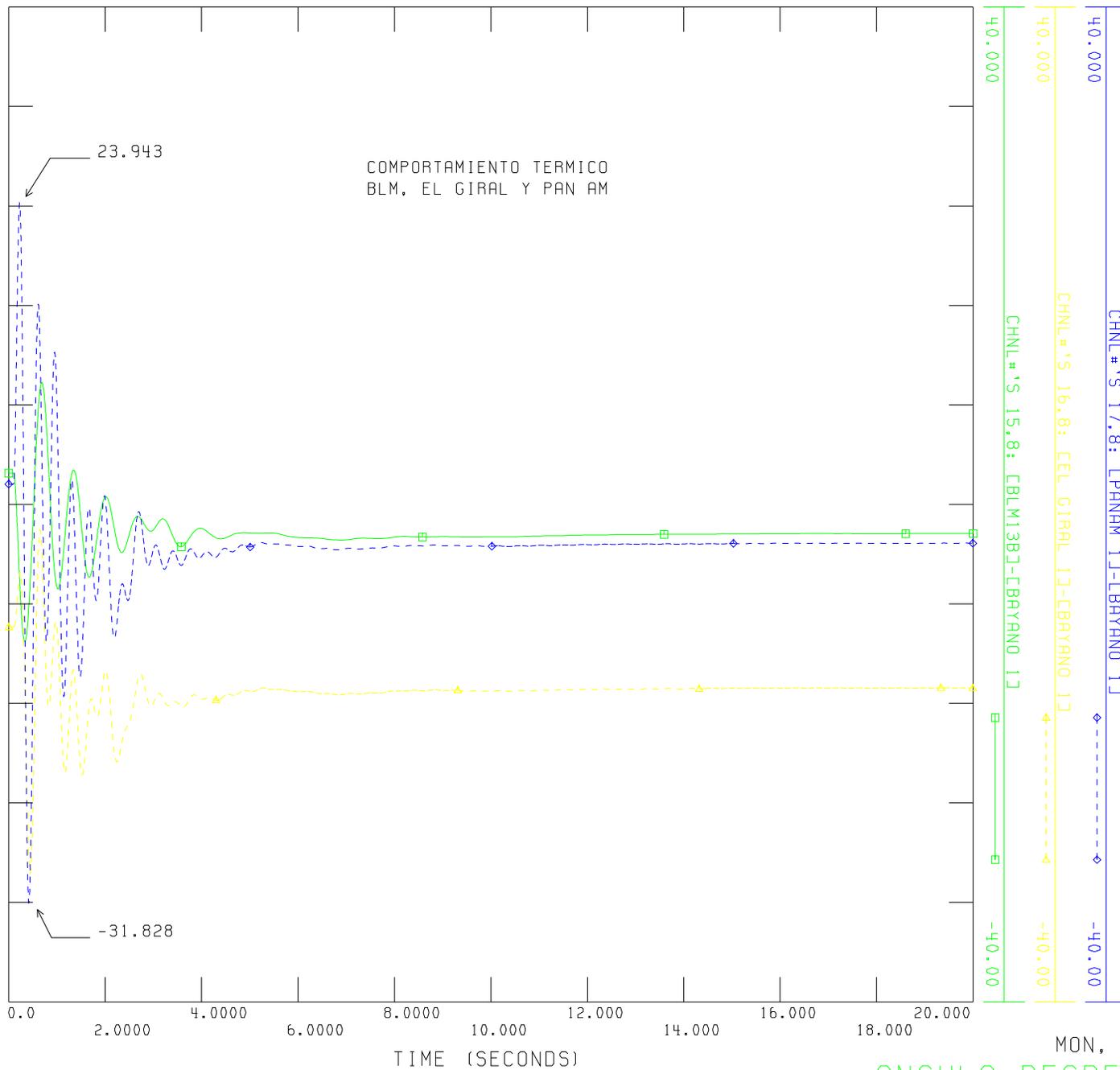


Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

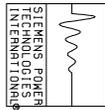
FILE: C:\DISCO DV...\VESTABILIDAD 2011\2011PE_ModMax-Inv Cont1.out



AÑO 2011 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II- LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8

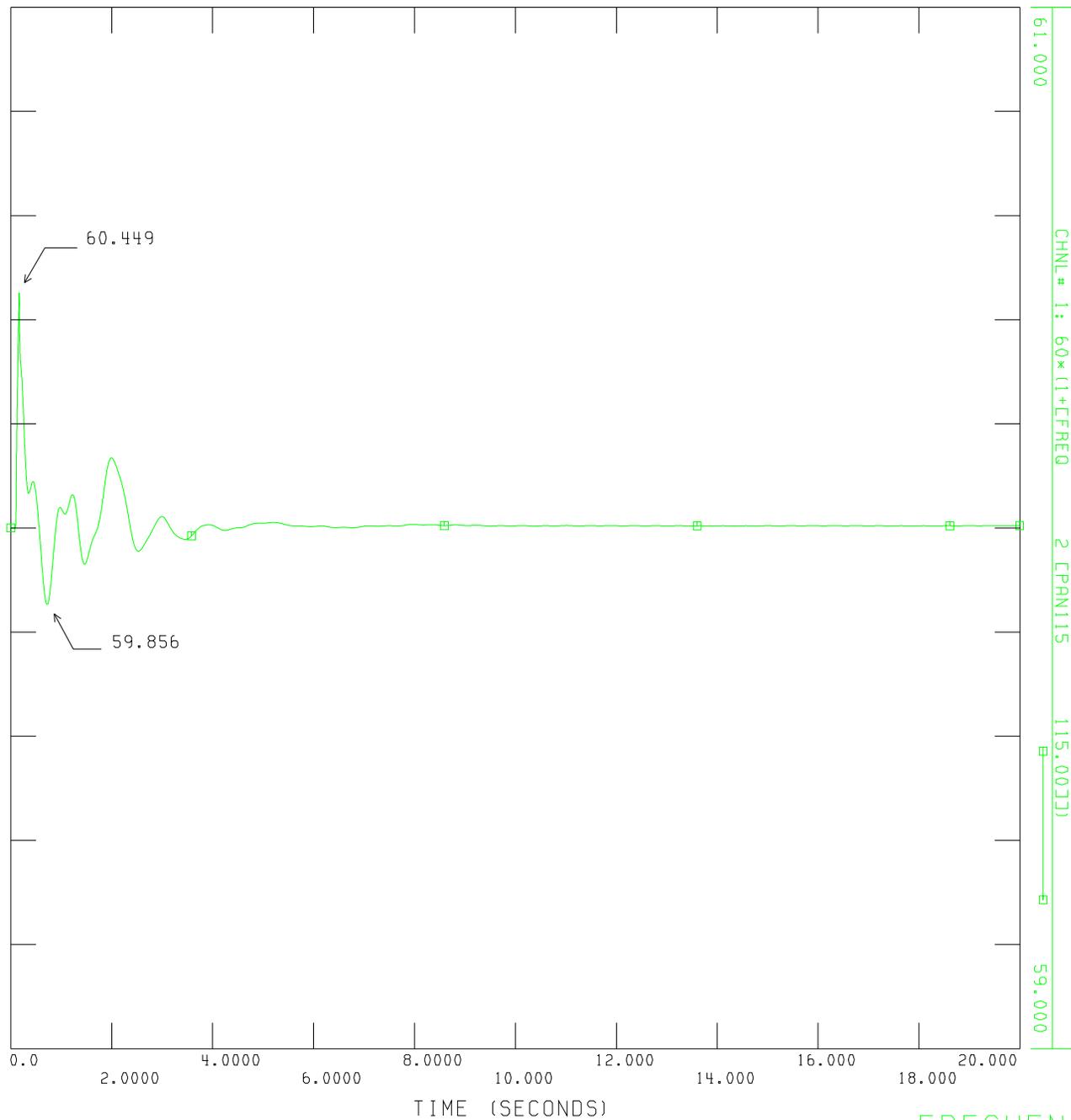


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO DV...\ESTABILIDAD 2011\2011PE_ModMax-Inv_cont2.out



MON, MAY 26 2008 16:41

FRECUENCIA PANAMA 115 KV



Handwritten signature

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv_Conf2.out

CHNL # 7: 230*[VOLT CHANG230]

-25.00

CHNL # 6: 230*[VOLT MDN230]

-25.00

CHNL # 5: 230*[VOLT LLSA230]

-25.00

CHNL # 4: 230*[VOLT CH0230]

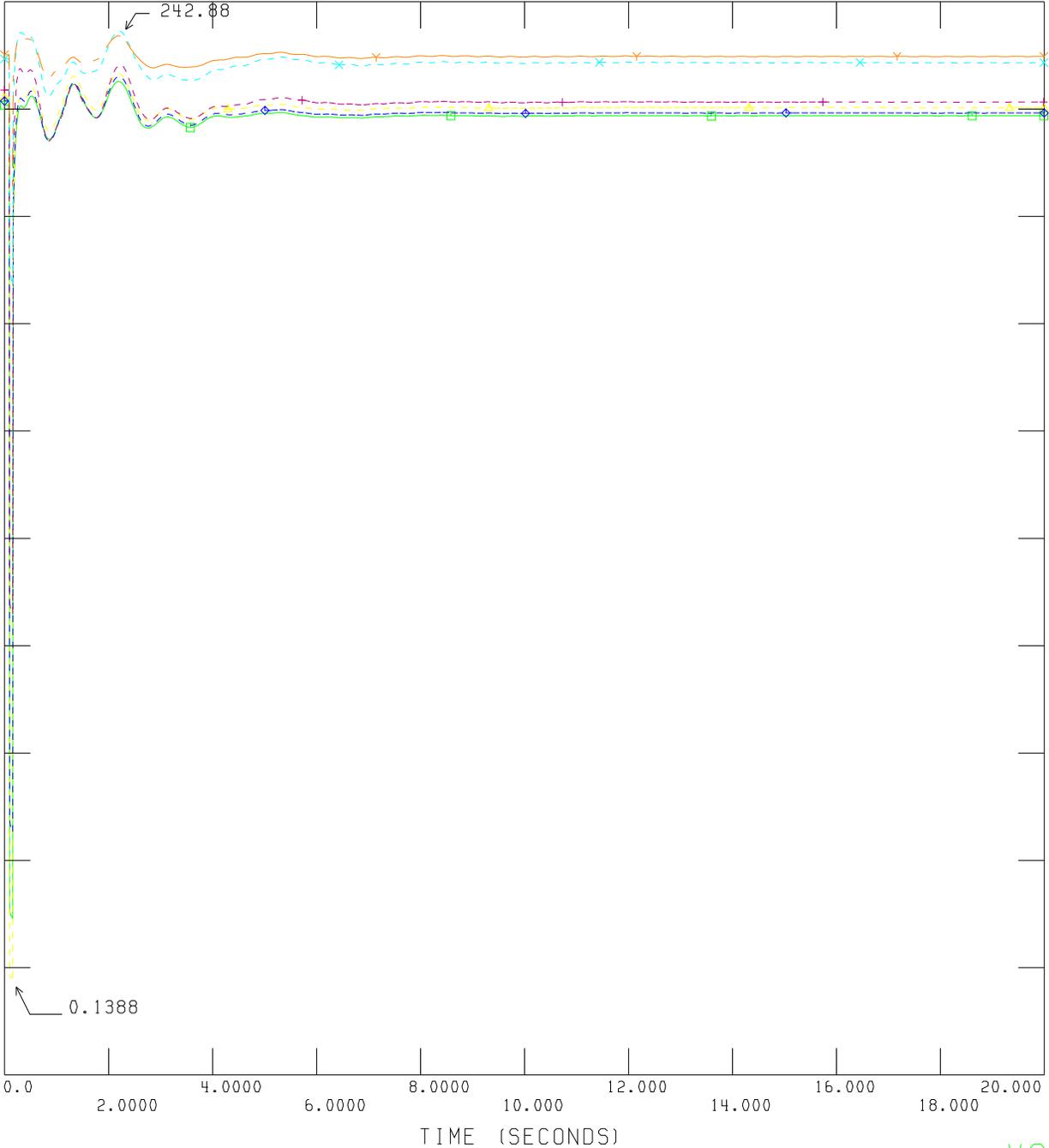
-25.00

CHNL # 3: 230*[VOLT PAN11230]

-25.00

CHNL # 2: 230*[VOLT PAN230]

-25.00



MON, MAY 26 2008 16:45

VOLTAJE BARRAS 230 KV

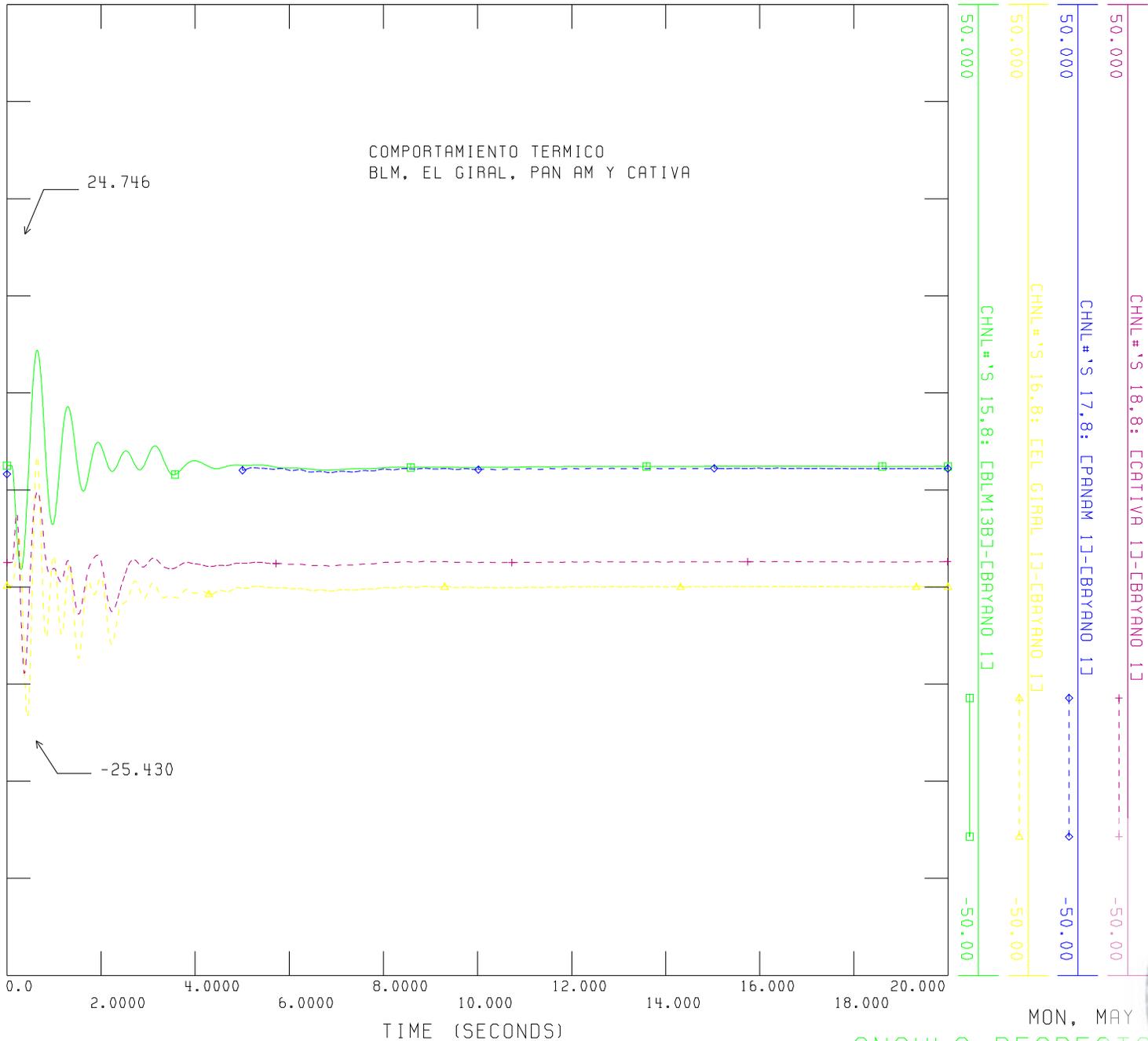


Handwritten signature or initials.



PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...VESTABILIDAD 2011\2011PE_ModMax-Inv Cont2.out



MON, MAY 26 2008 16:58

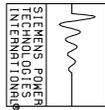
ANGULO RESPECTO A BAYANO



**AÑO 2011 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**

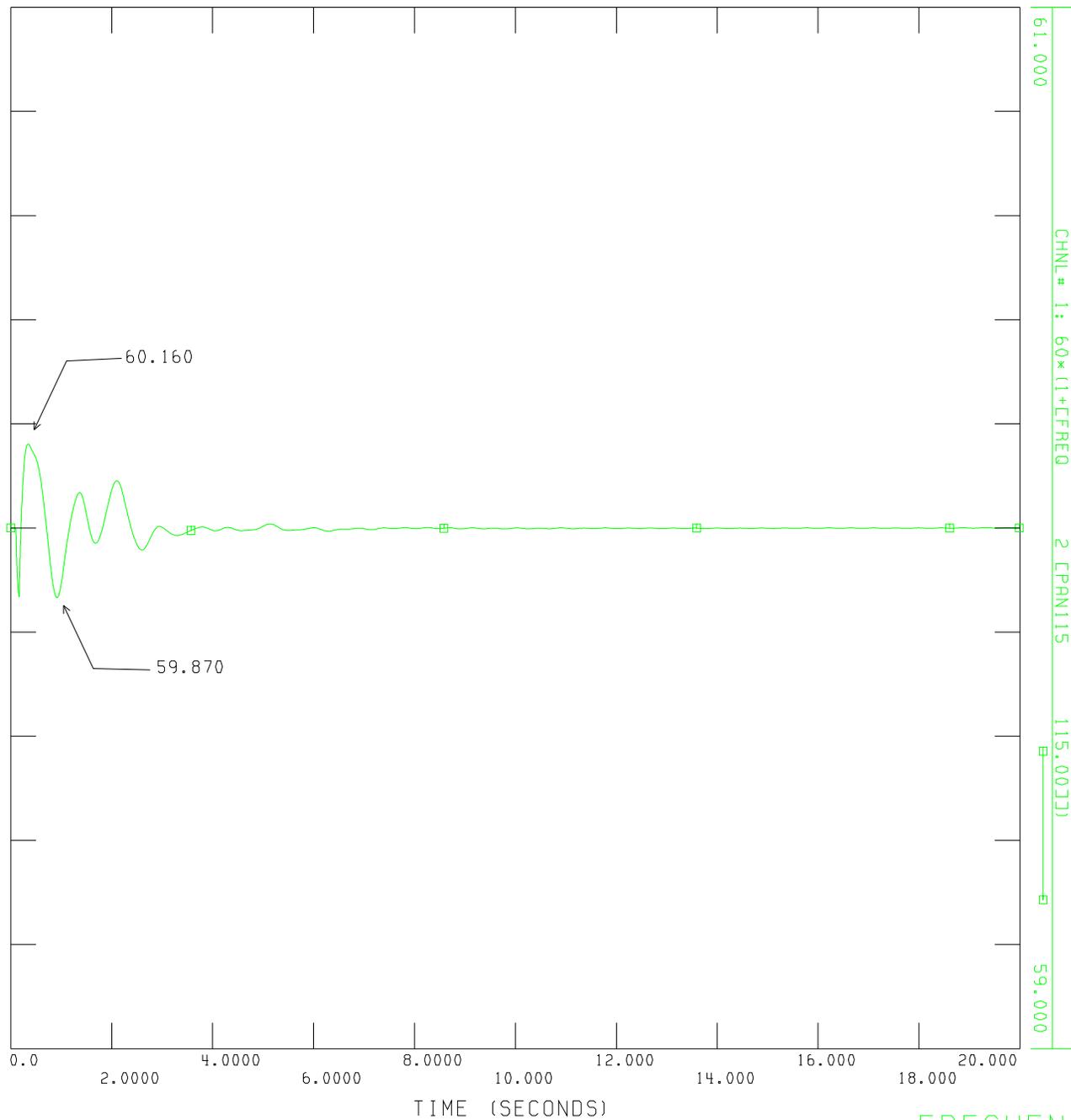


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv_Contr.out



MON, MAY 26 2008 16:59

FRECUENCIA PANAMA 115 KV



de

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv_Contr3.out

CHNL # 7: 230*[VOLT CHANG230]

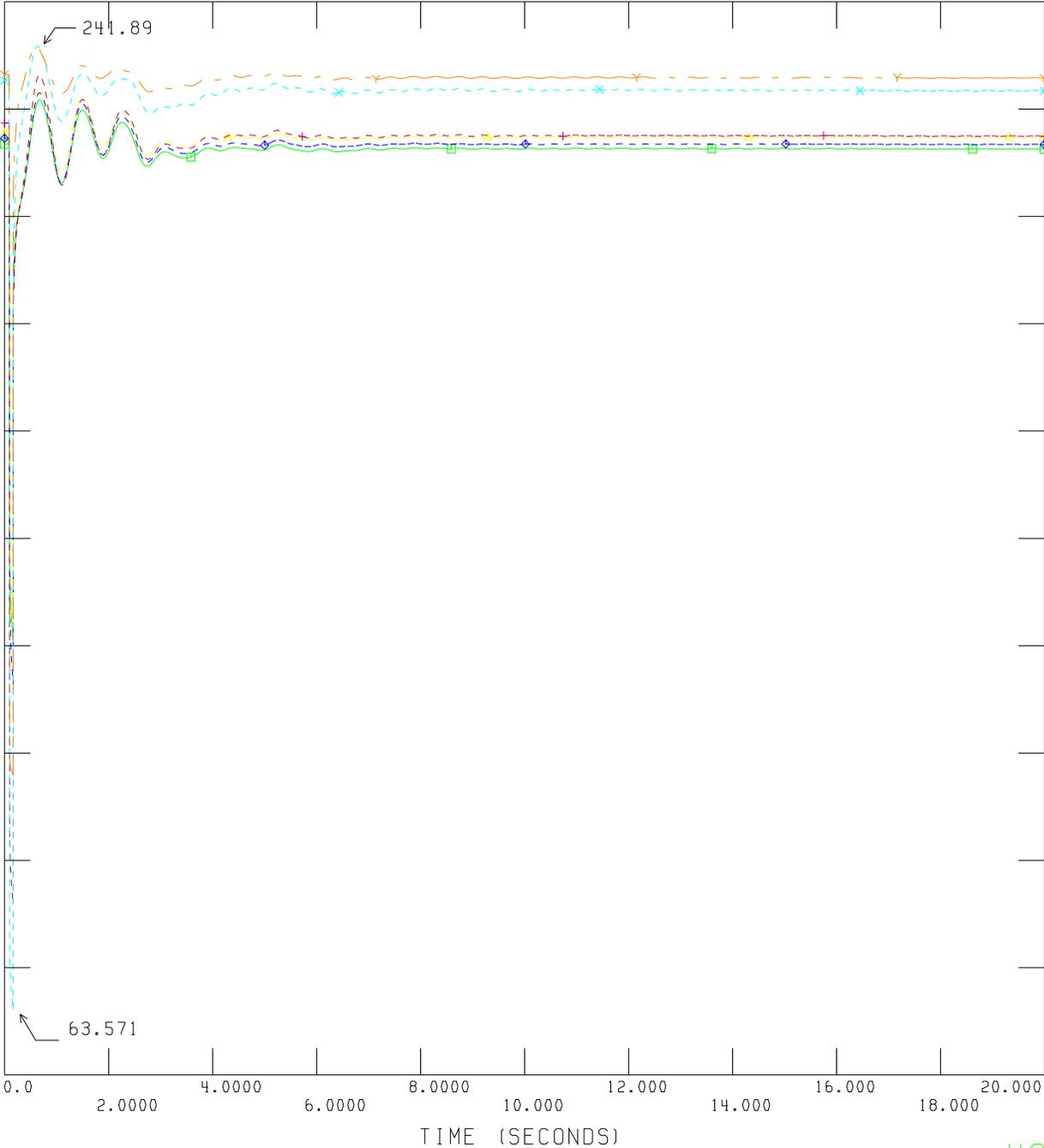
CHNL # 6: 230*[VOLT MDN230]

CHNL # 5: 230*[VOLT LLSA230]

CHNL # 4: 230*[VOLT CH0230]

CHNL # 3: 230*[VOLT PAN11230]

CHNL # 2: 230*[VOLT PAN230]



MON, MAY 26 2008 17:03

VOLTAJE BARRAS 230 KV

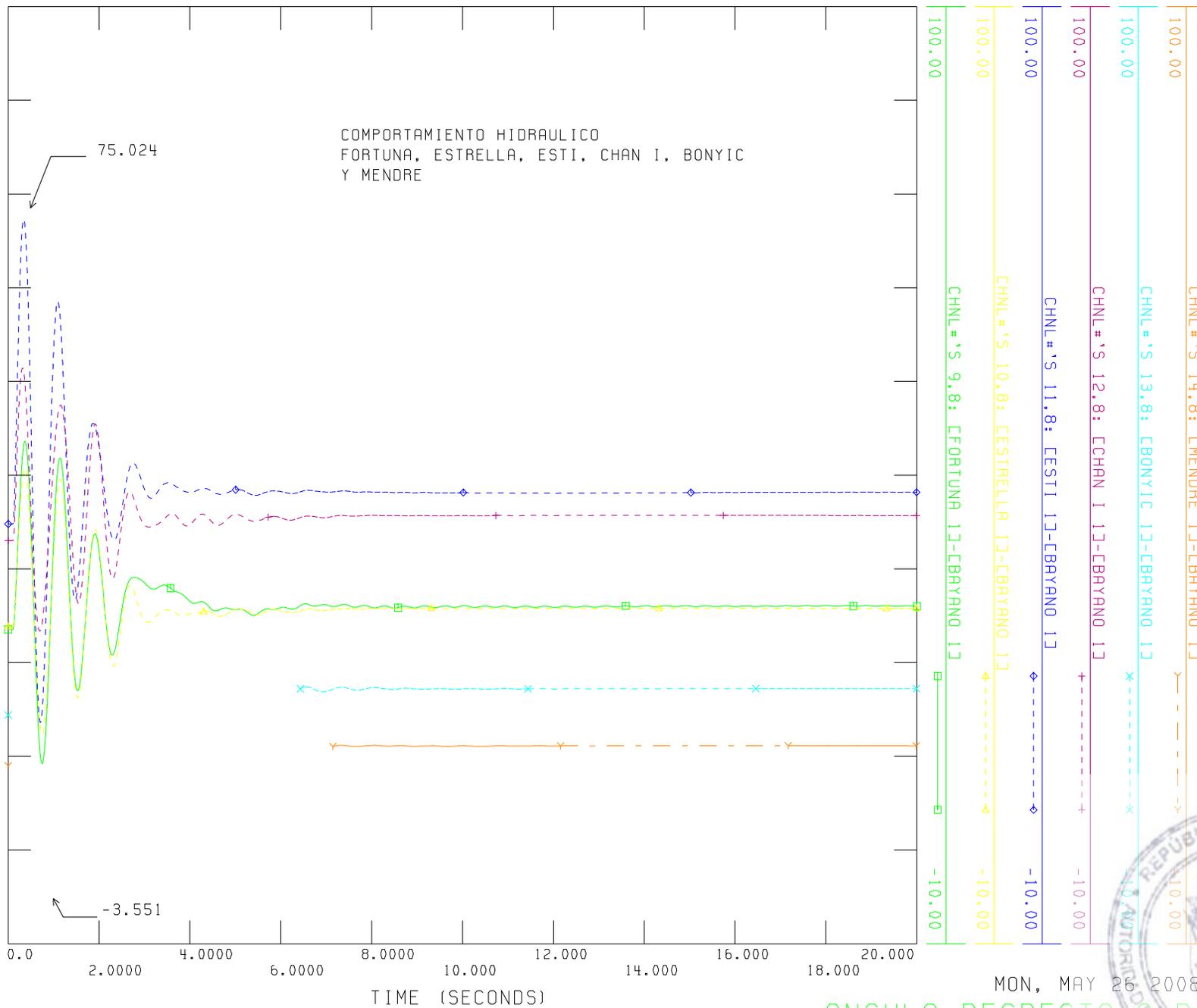


Handwritten signature or initials.



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE ModMax-Inv Cont3.out



MON, MAY 26 2008 17:07

ANGULO RESPECTO A BAYANO

Handwritten signature



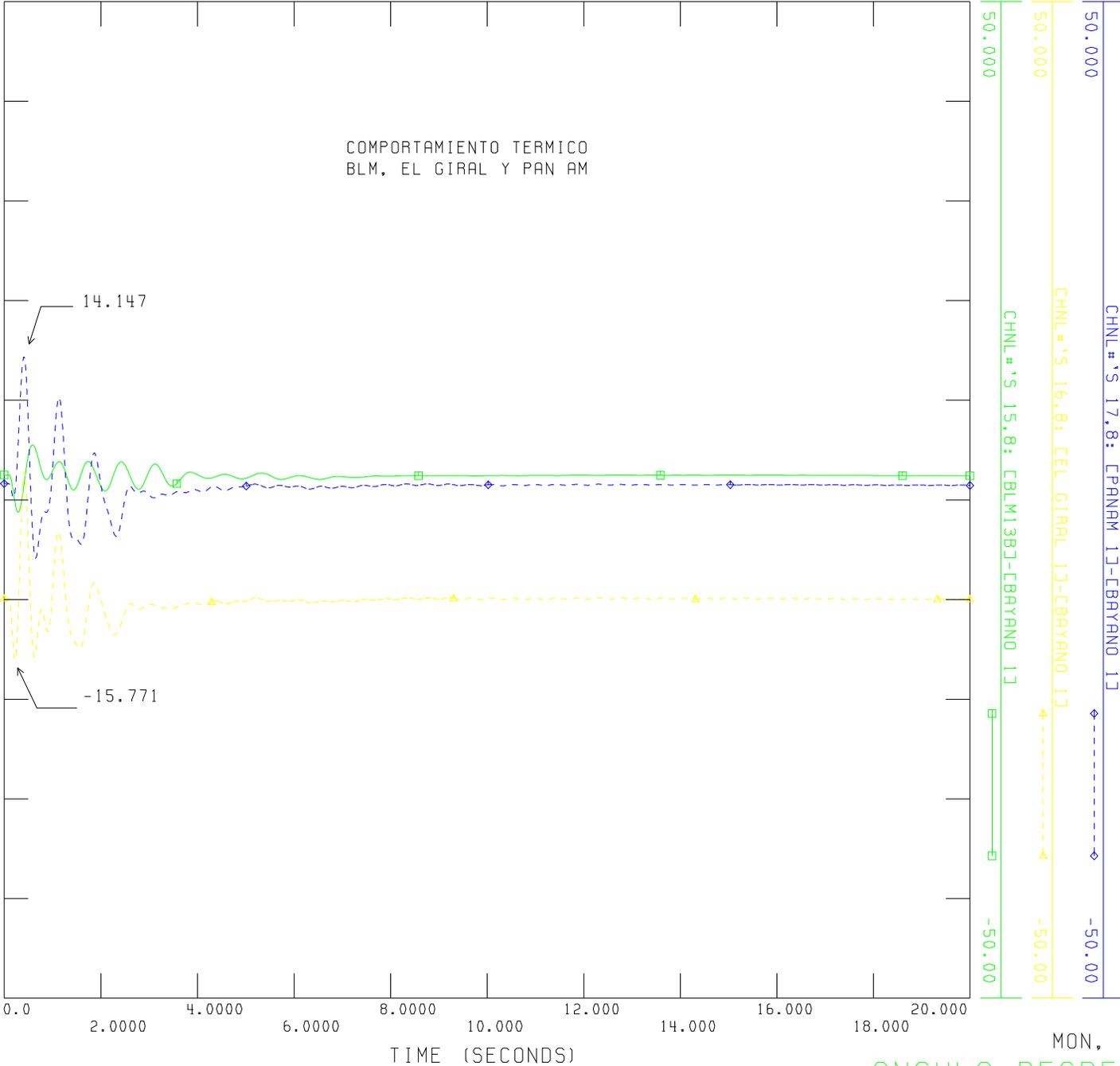
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv ConT3.out



MON, MAY 26 2008 17:10

ANGULO RESPECTO A BAYANO



**AÑO 2011 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**



de



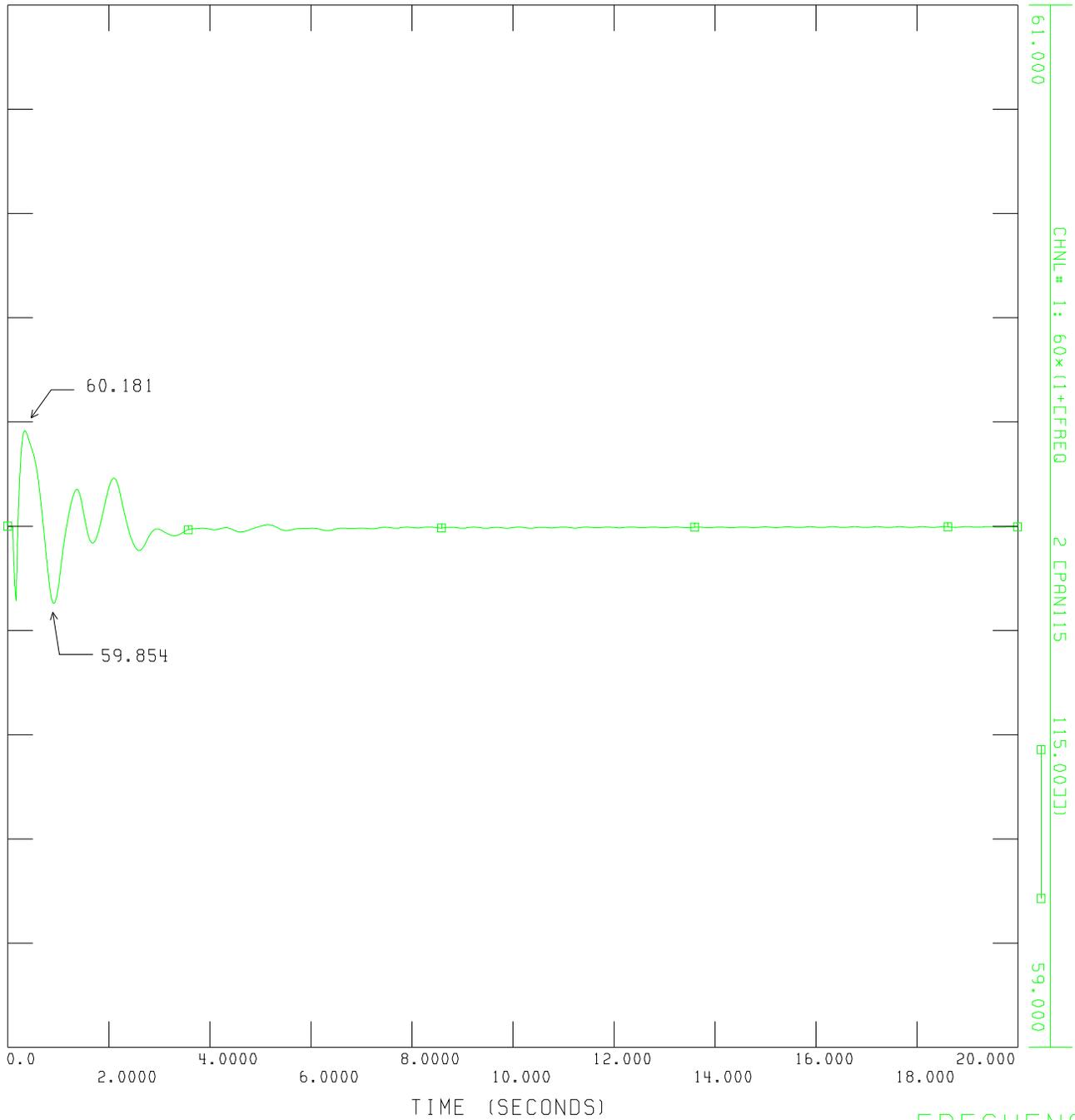
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv_Contra.out



MON, MAY 26 2008 17:51

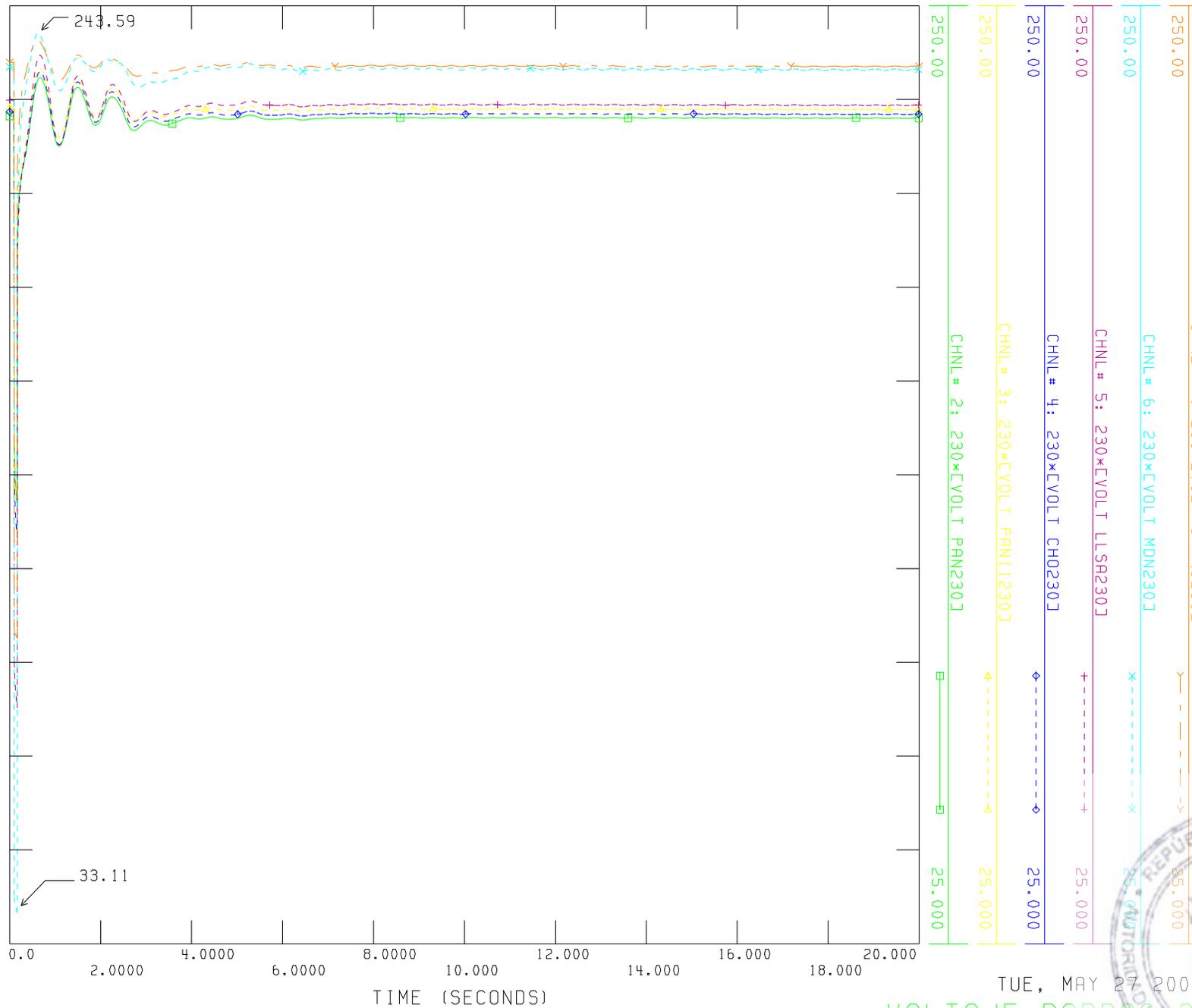
FRECUENCIA PANAMA 115 KV





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\VESTABILIDAD 2011\2011PE_ModMax-Inv_Conf4.out

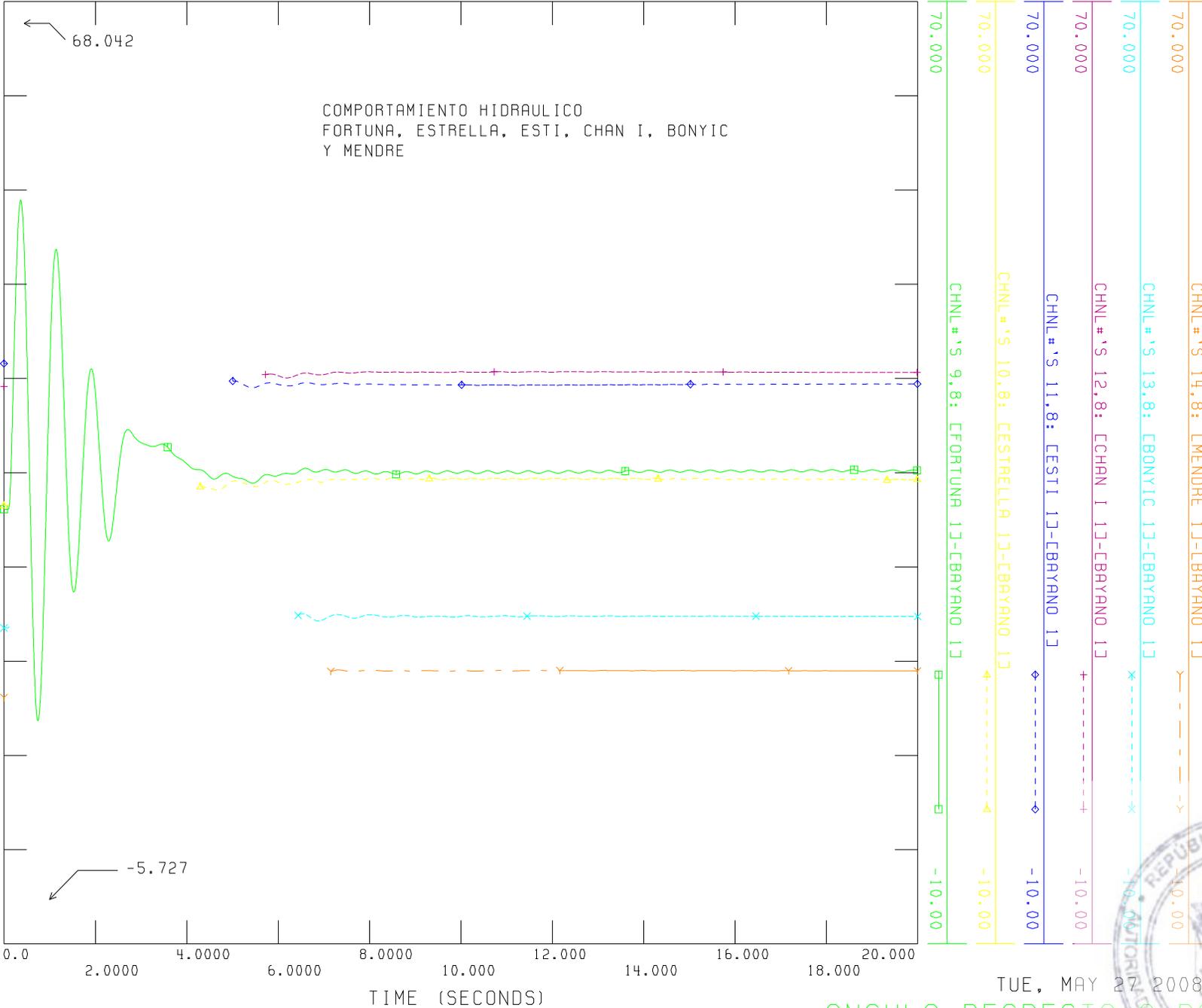


TUE, MAY 27 2008 7:46
VOLTAJE BARRAS 230 KV



Handwritten signature or initials.

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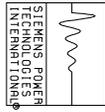


TUE, MAY 27 2008 7:51

ANGULO RESPECTO A BAYANO

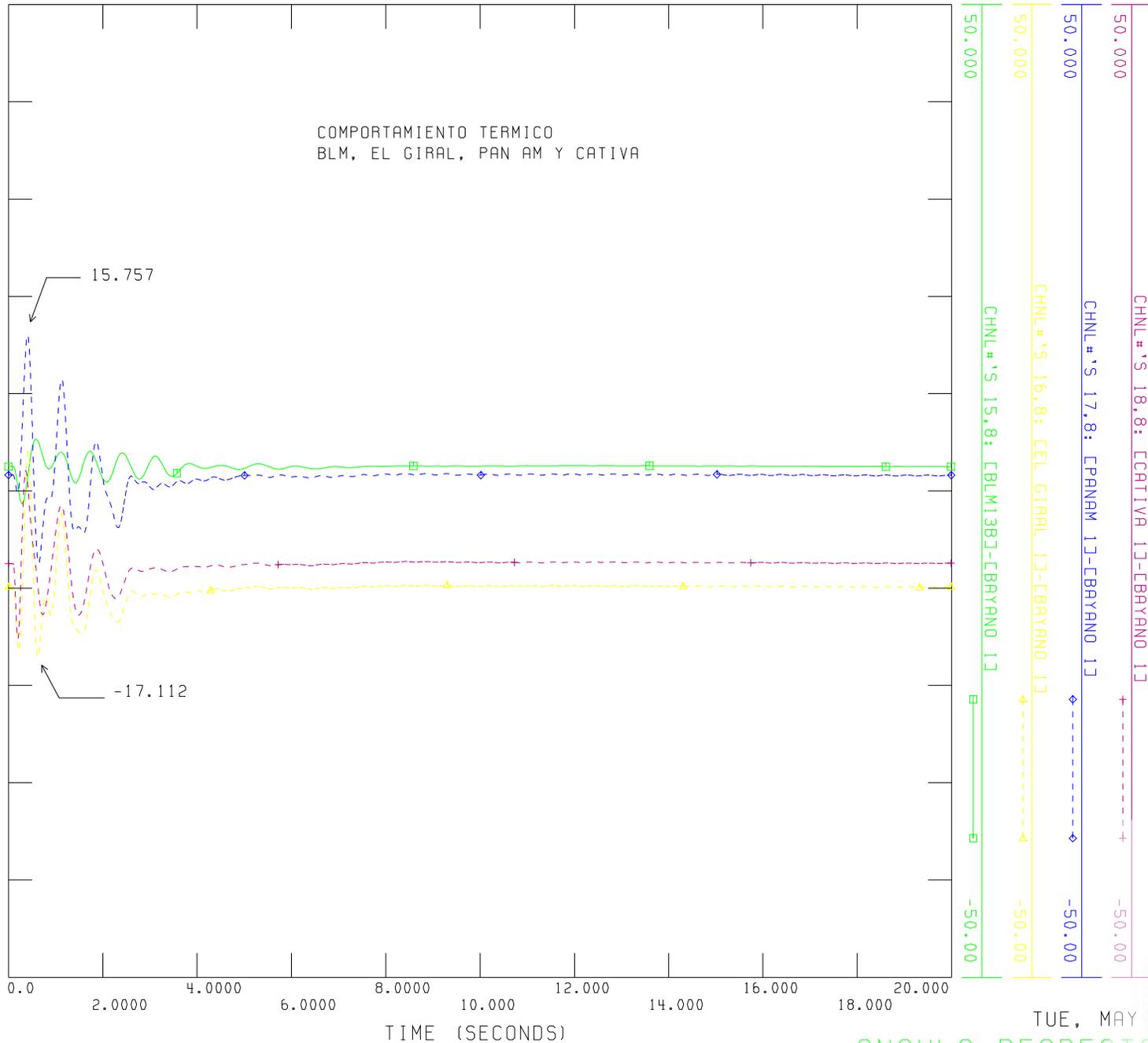


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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...VESTABILIDAD 2011\2011PE_ModMax-Inv Cont4.out



TUE, MAY 27 2008 7:54

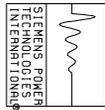
ANGULO RESPECTO A BAYANO

Handwritten signature

**AÑO 2011 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8
Caso 2 REGMHTGDC8
Caso 3 REGMHTTTLA8**

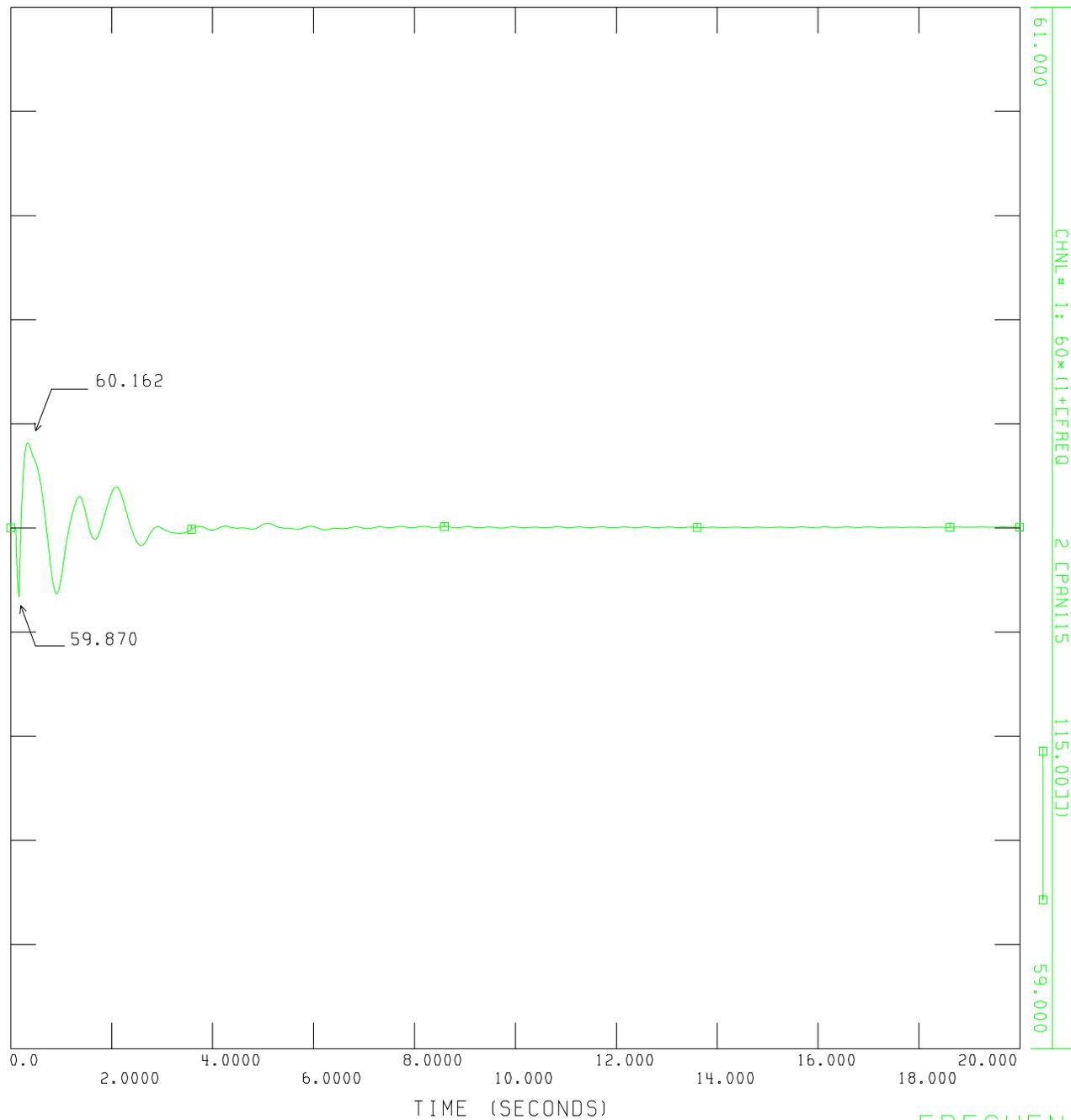


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2011

FILE: C:\DISCO D\...\ESTABILIDAD 2011\2011PE_ModMax-Inv_Conf5.out

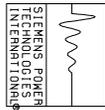


TUE, MAY 27 2008 8:07

FRECUENCIA PANAMA 115 KV

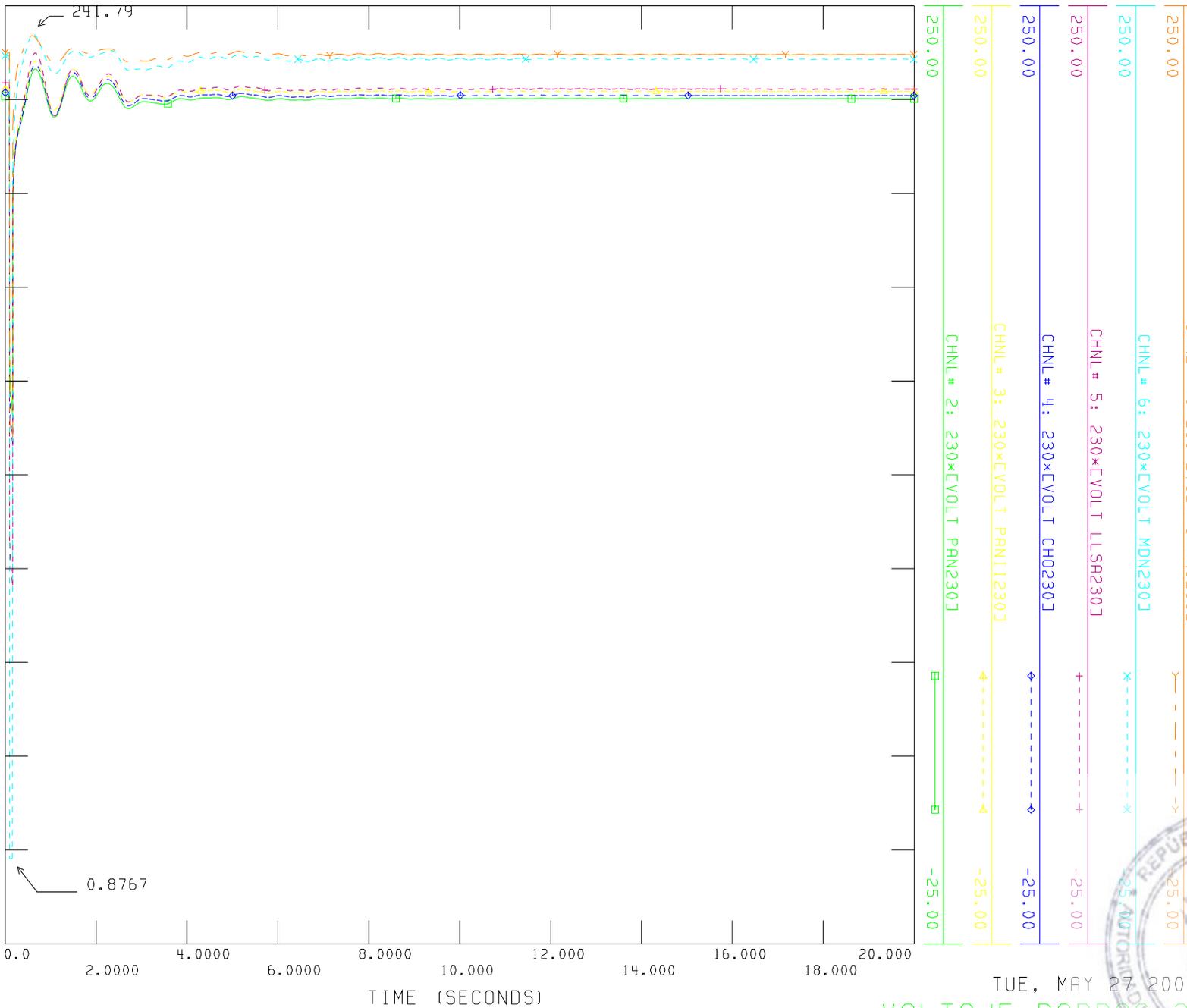


Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2011

FILE: C:\DISCO D\...\VESTABILIDAD 2011\2011PE_ModMax-Inv_Confs.out



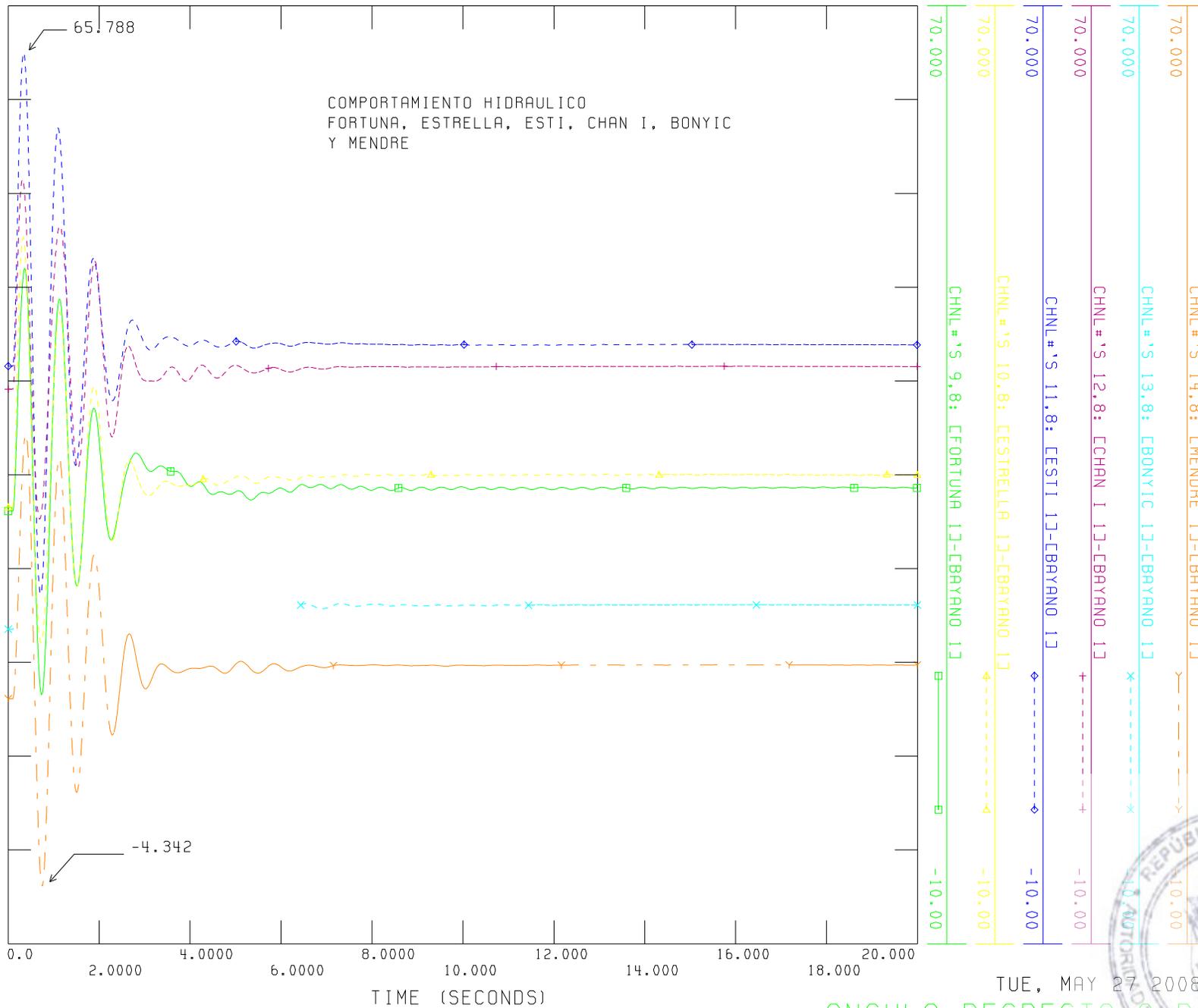
TUE, MAY 27 2008 8:10
 VOLTAJE BARRAS 230 KV

Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2011

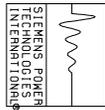
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TUE, MAY 27 2008 8:13

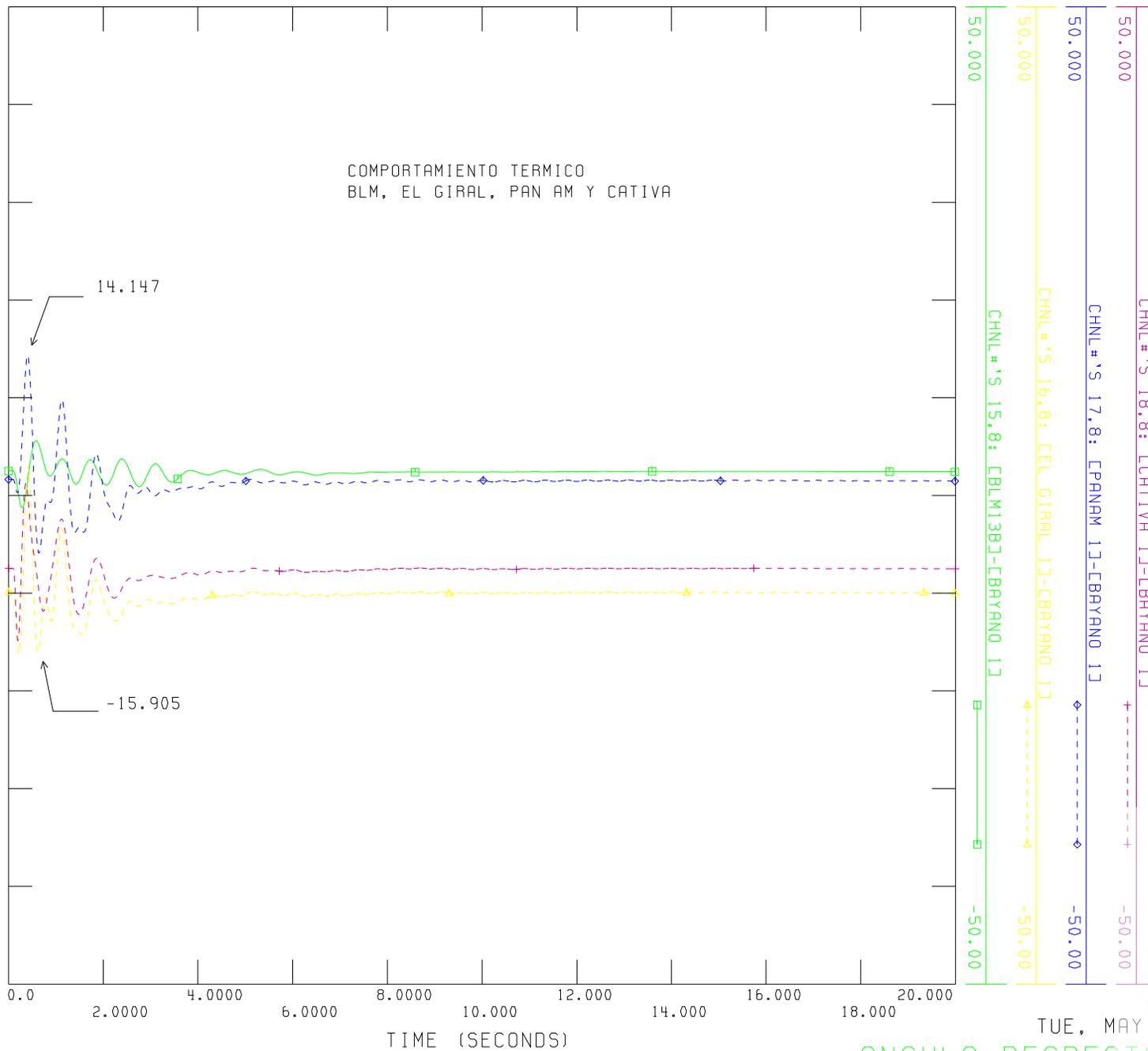
ANGULO RESPECTO A BAYANO

Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2011

FILE: C:\DISCO D\...\VESTABILIDAD 2011\2011PE_ModMax-Inv Conts.out



TUE, MAY 27 2008 8:16

ANGULO RESPECTO A BAYANO

Handwritten signature

2012



de

**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8**



de

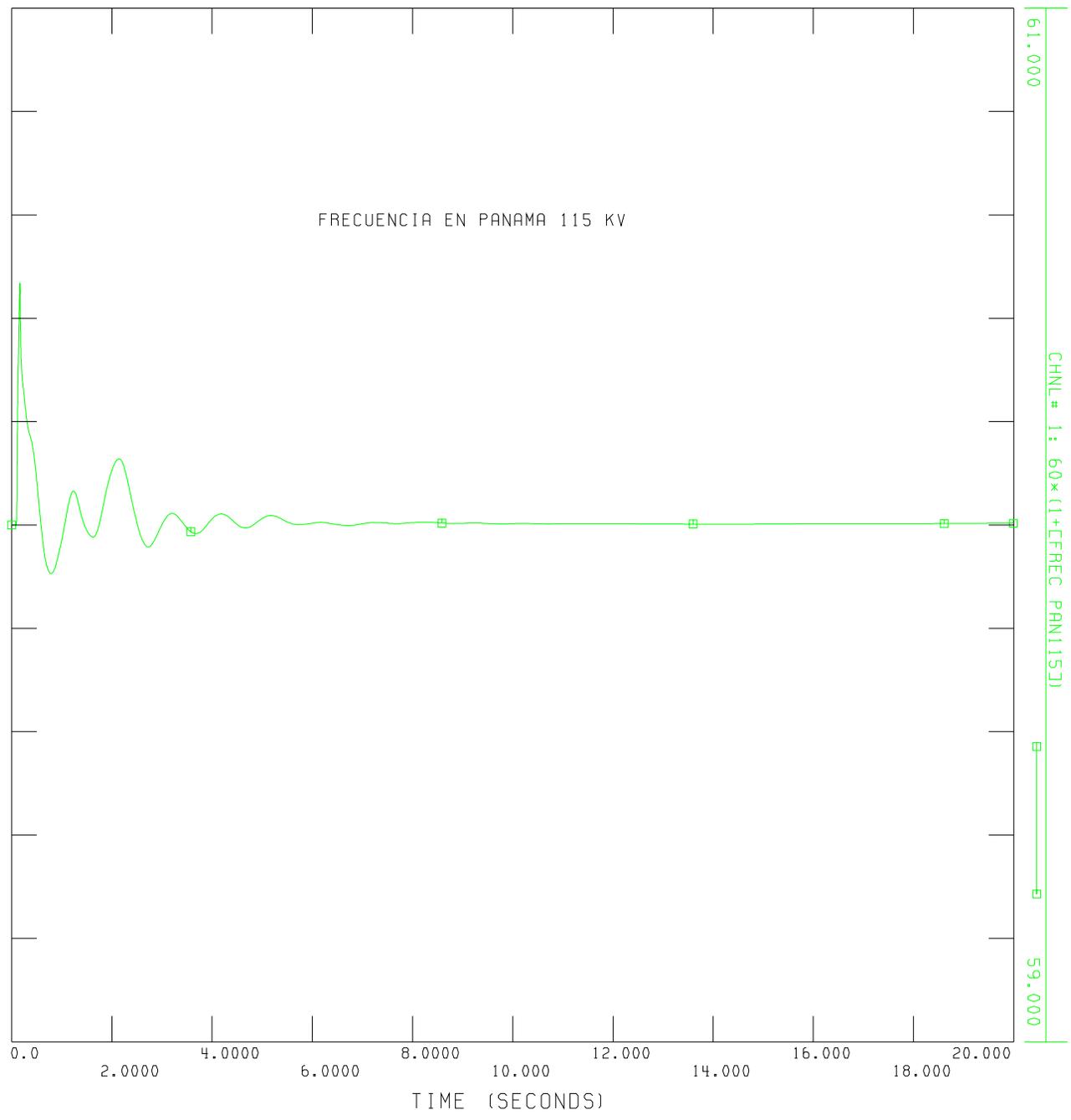


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n1.out



TUE, MAY 27 2008 17:44
 FRECUENCIA EN HZ

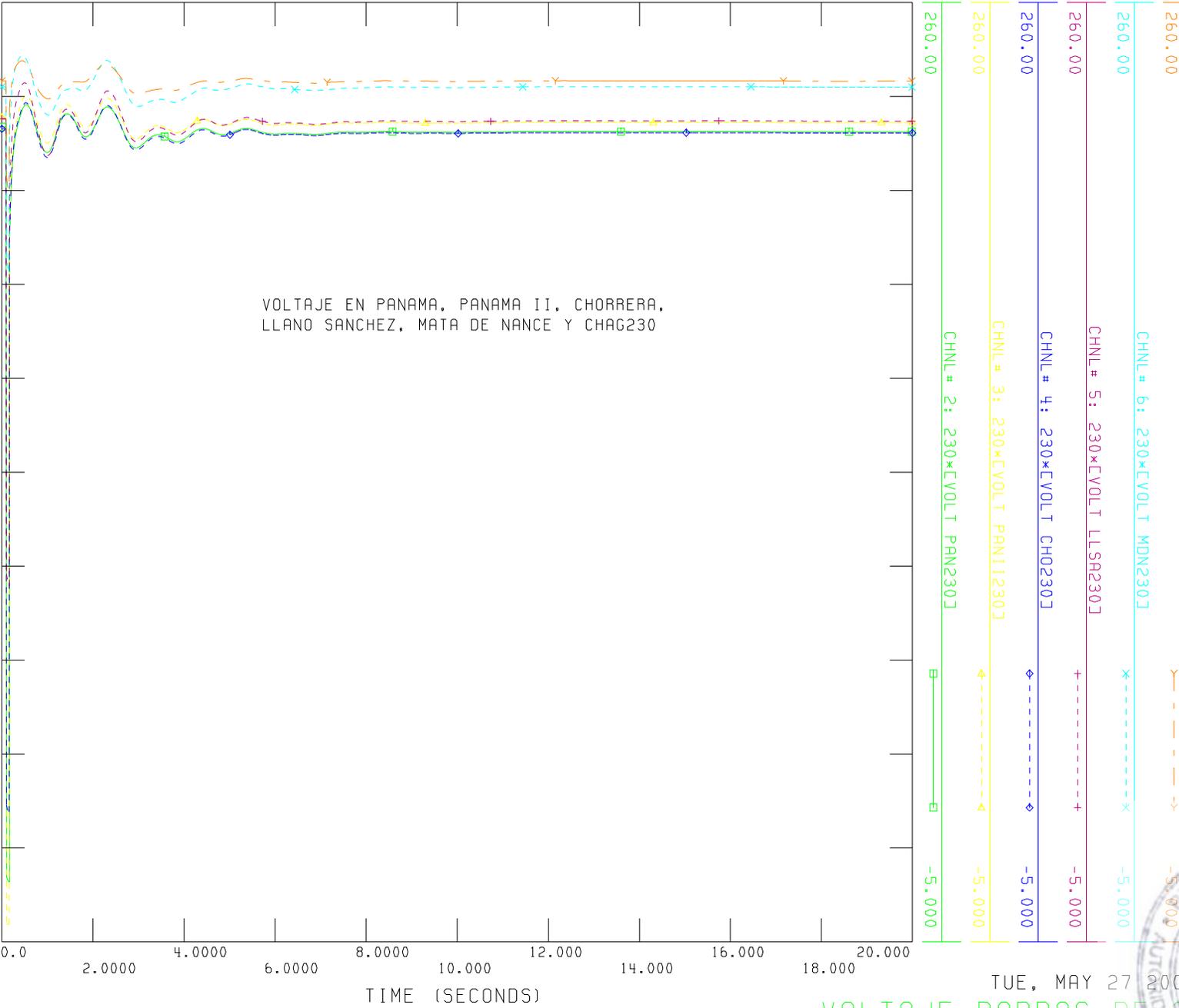


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MRX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n1.out



TUE, MAY 27 2008 17:50

VOLTAJE BARRAS DE 230 KV

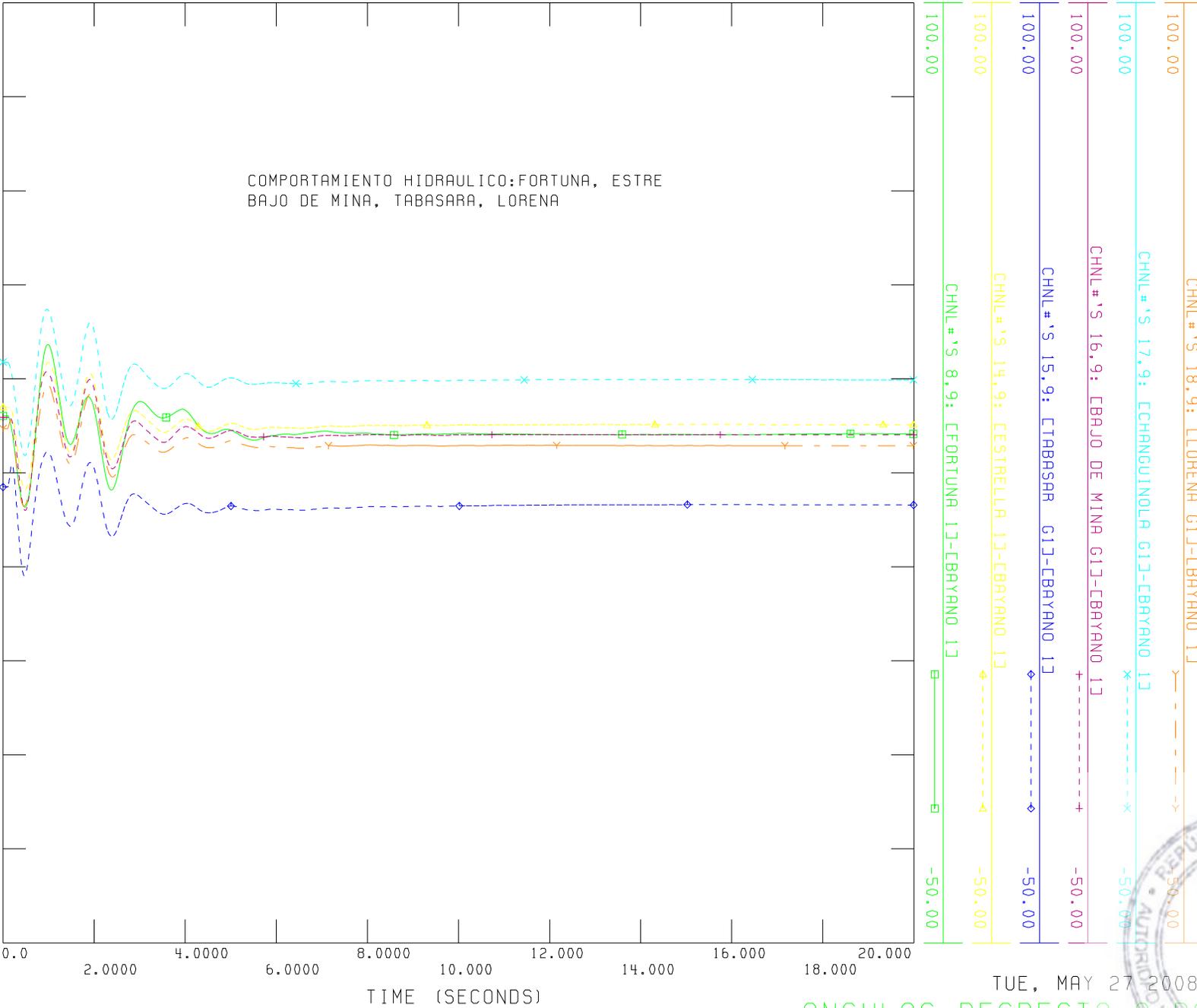


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\Plane\expansi n2008\Dynamics\2012PE_ModMax-Inv\carb n1.out



TUE, MAY 27 2008 18:32

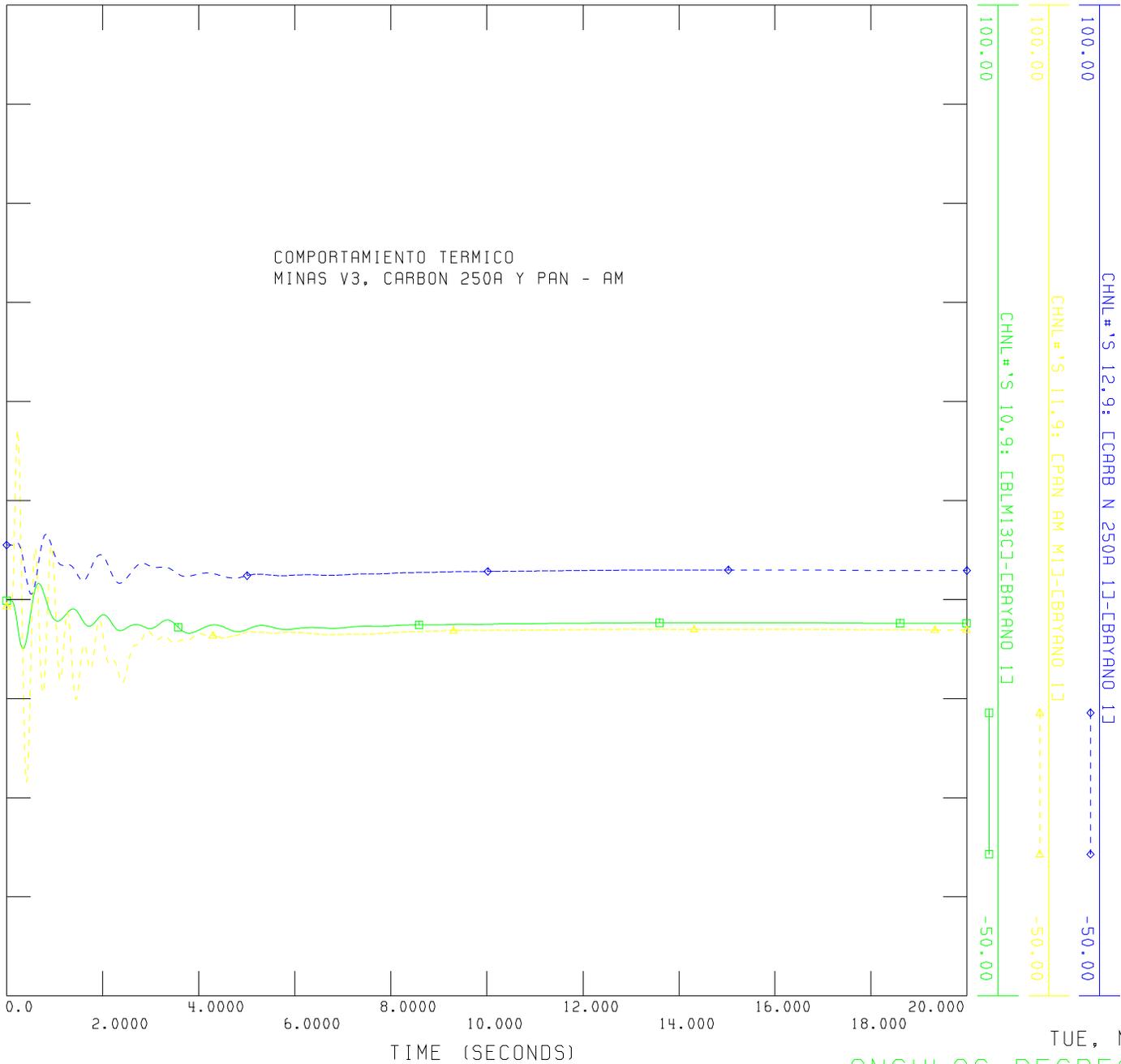
ANGULOS RESPECTO A BAYANO





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MRX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n1.out



TUE, MAY 27 2008 18:49

ANGULOS RESPECTO A BAYANO



**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8**



de

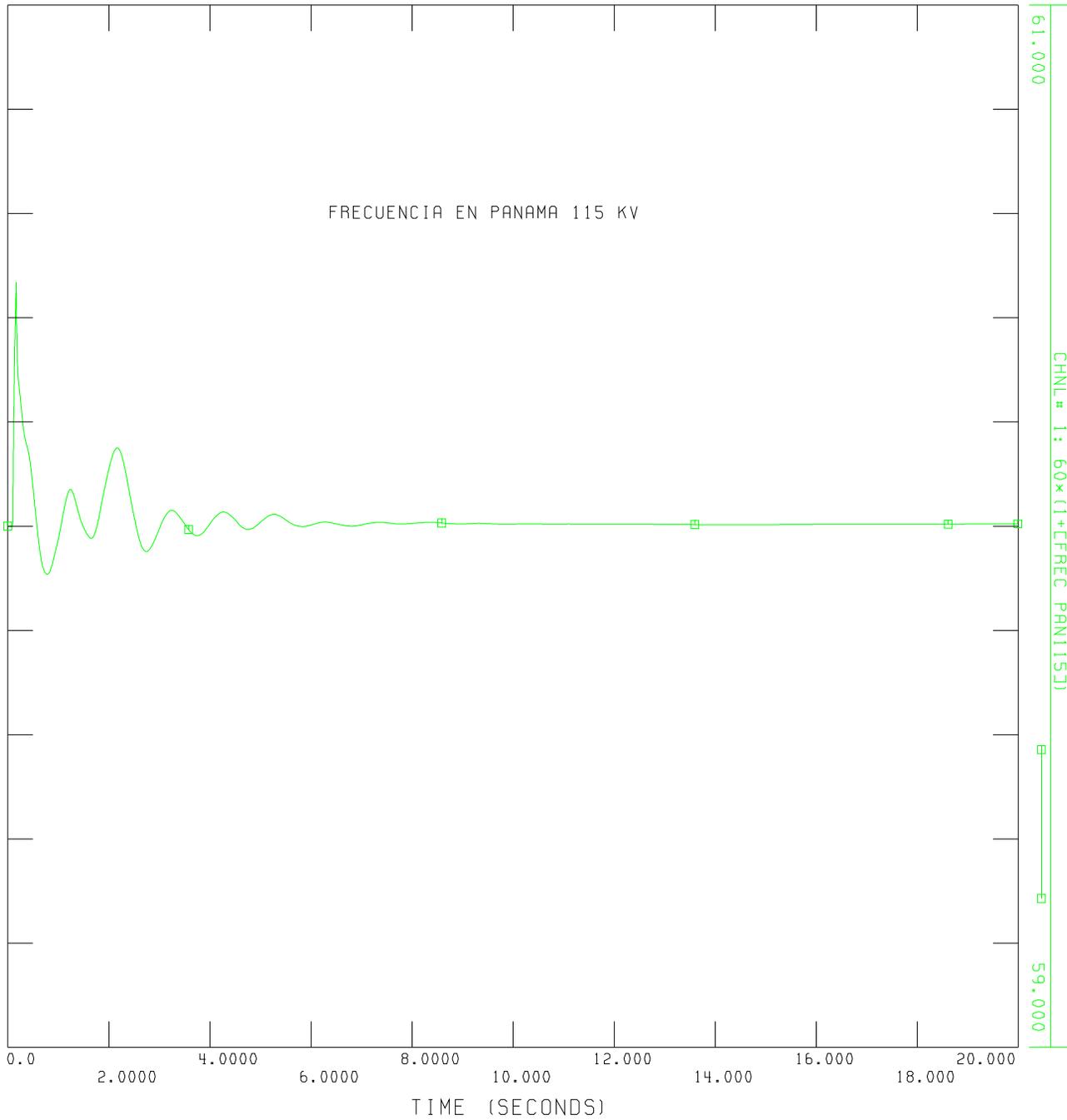


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n2.001



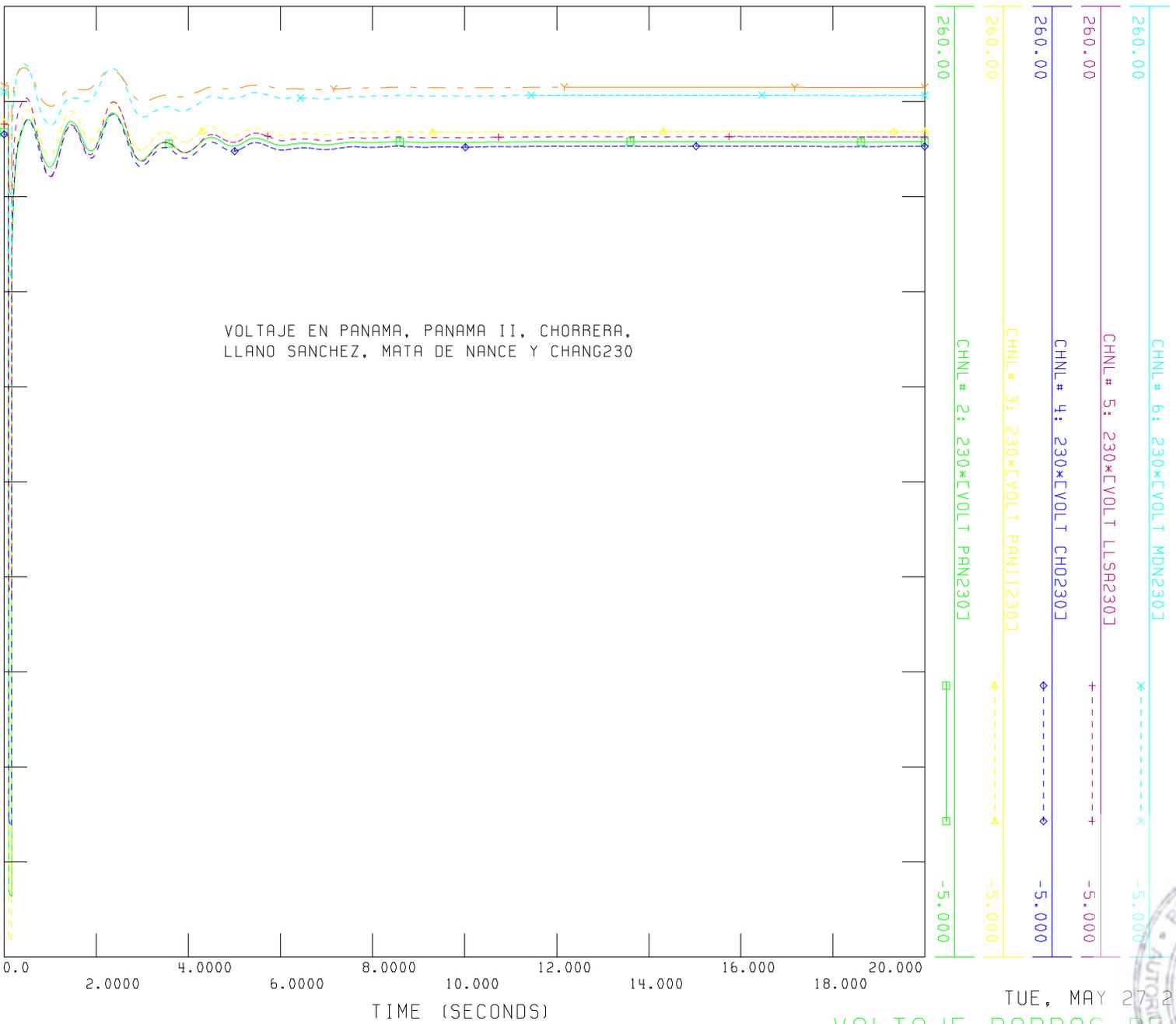
TUE, MAY 27 2008 19:37
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb.n2.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

TUE, MAY 27 2008 19:39

VOLTAJE BARRAS DE 230 KV

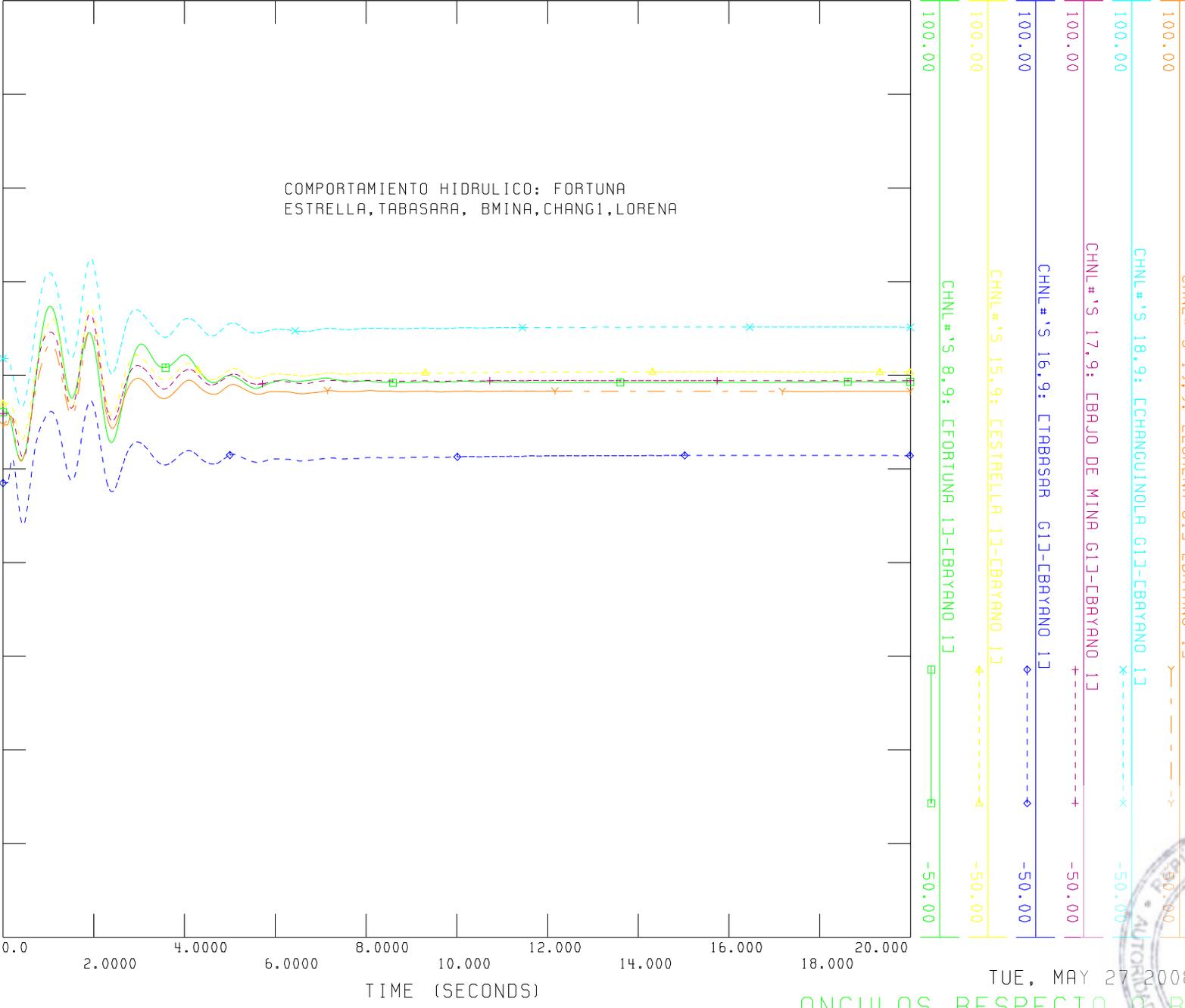


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n2.out



TUE, MAY 27 2008 19:43

ANGULOS RESPECTO A BAYANO

Handwritten signature



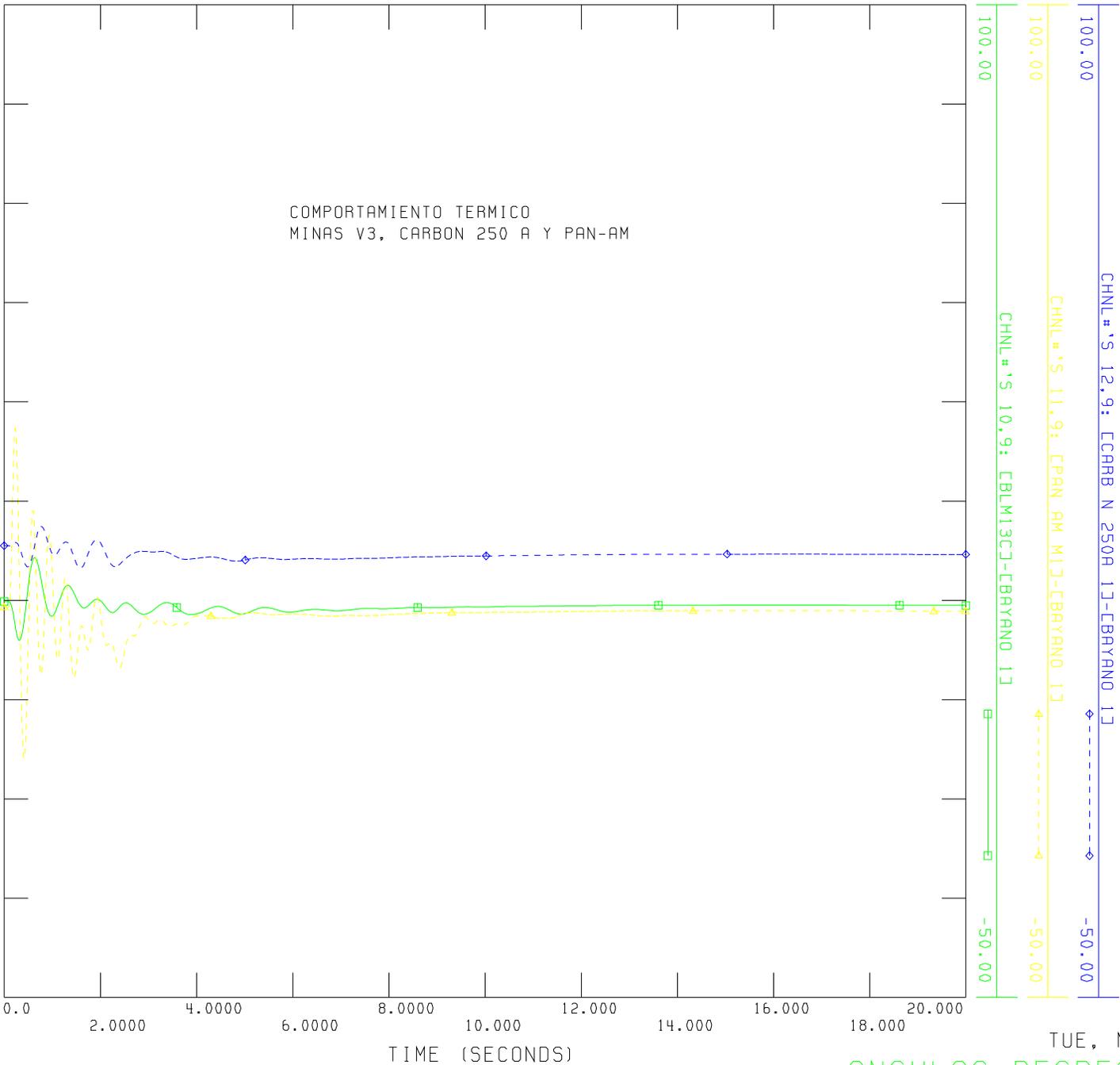
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2012

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n2.001



TUE, MAY 27 2008 19:48

ANGULOS RESPECTO A BAYANO



**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8**

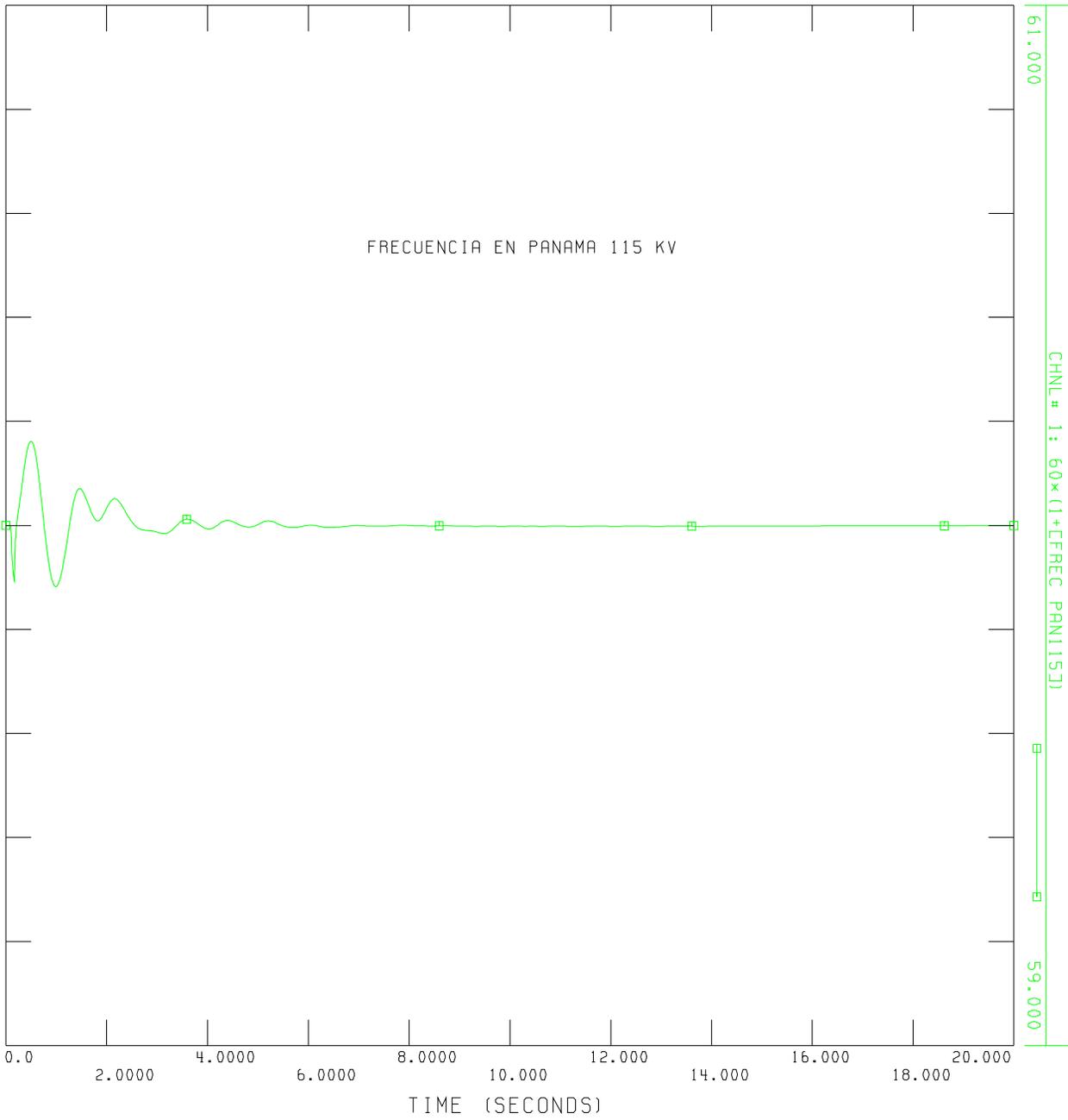


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n3.out



WED, MAY 28 2008 7:55
 FRECUENCIA EN HZ

Handwritten signature



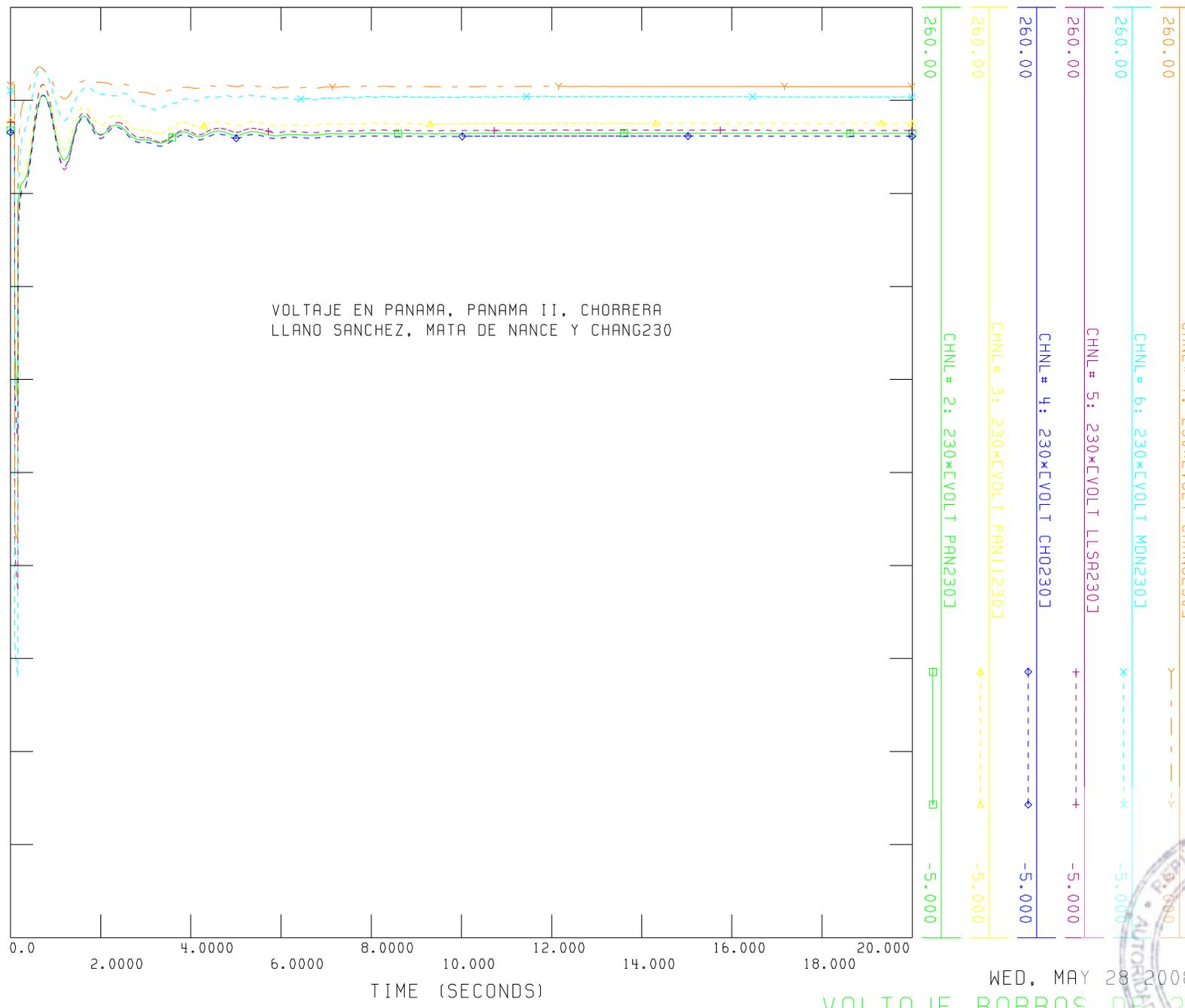
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n3.out



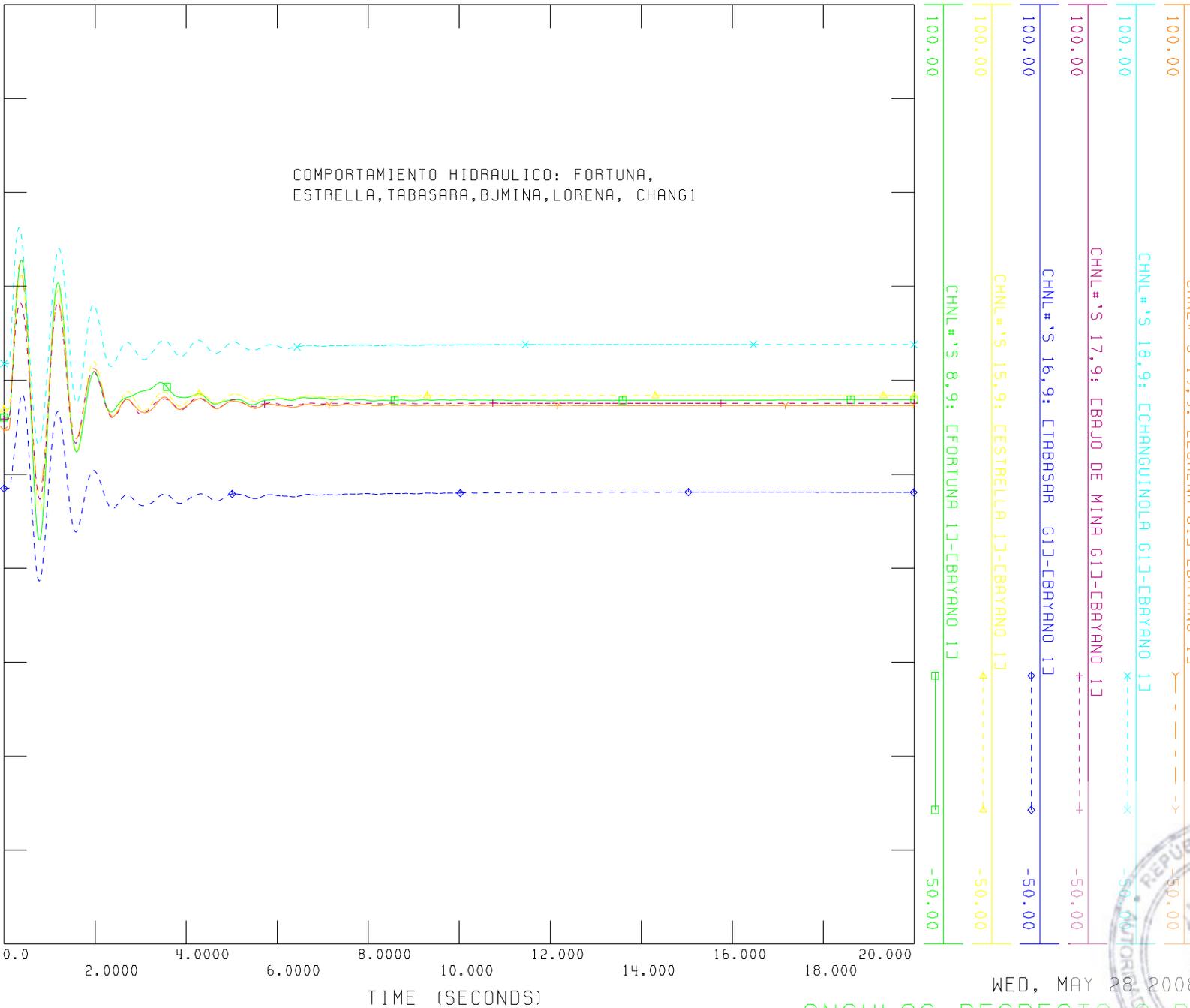
WED, MAY 28 2008 7:59

VOLTAJE BARRAS DE 230 KV



VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n3.out



WED, MAY 28 2008 8:03

ANGULOS RESPECTO A BAYANO

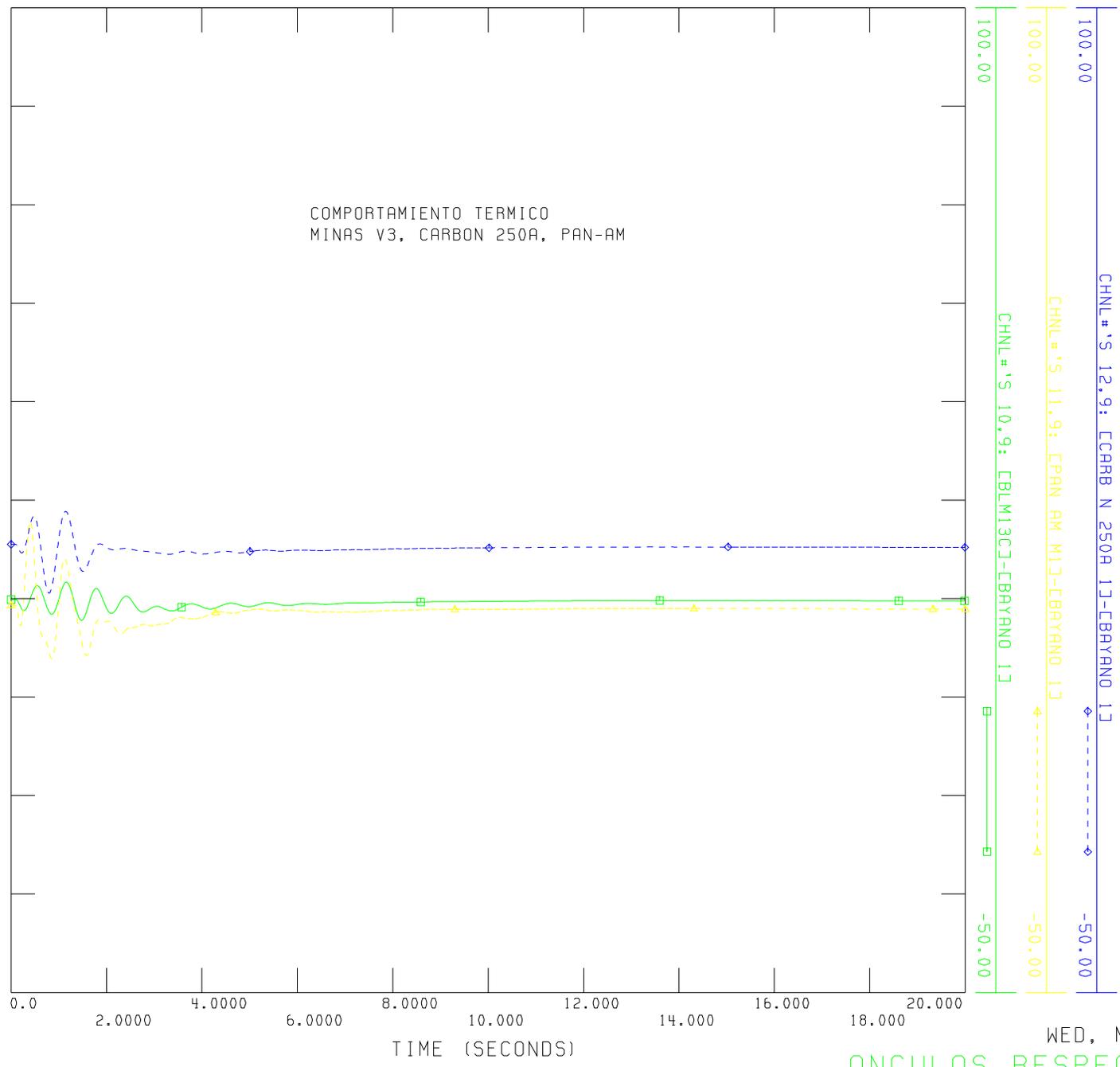


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n3.out



WED, MAY 28 2008 8:15

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8**

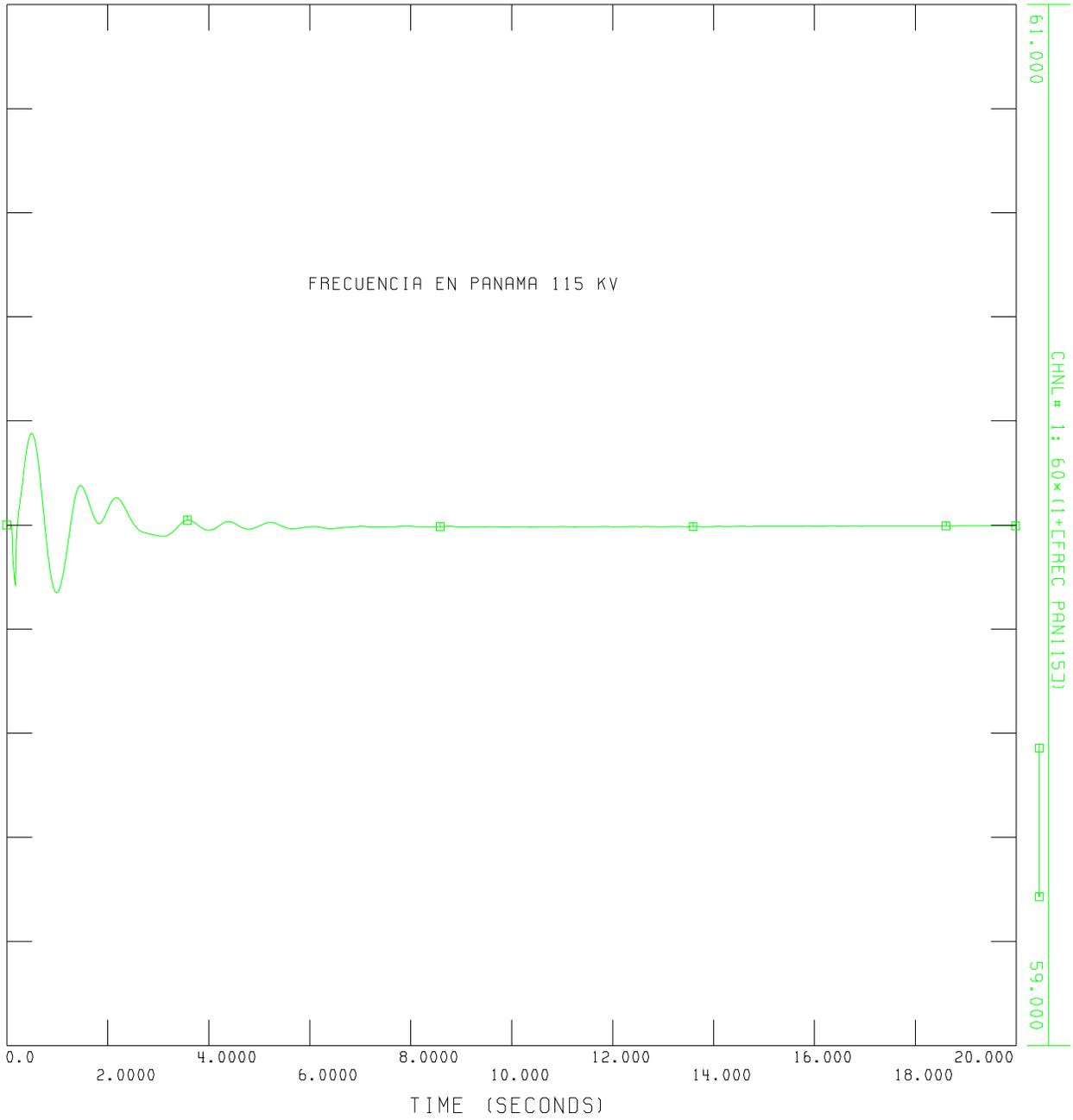


de



PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamicics\2012PE_ModMax-InvCarb PA.out



WED, MAY 28 2008 8:27
FRECUENCIA EN HZ

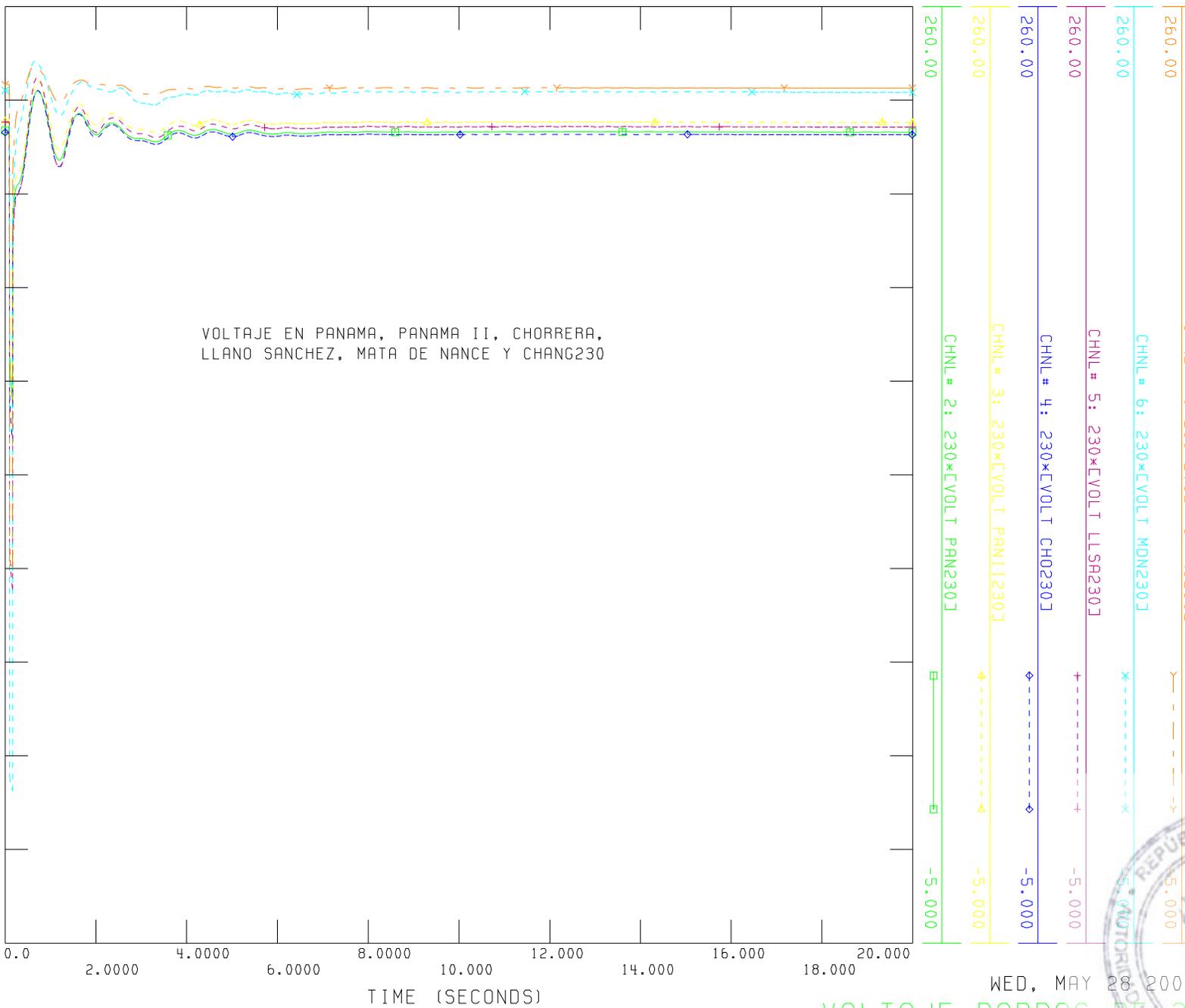


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n4.out



WED, MAY 28 2008 8:30

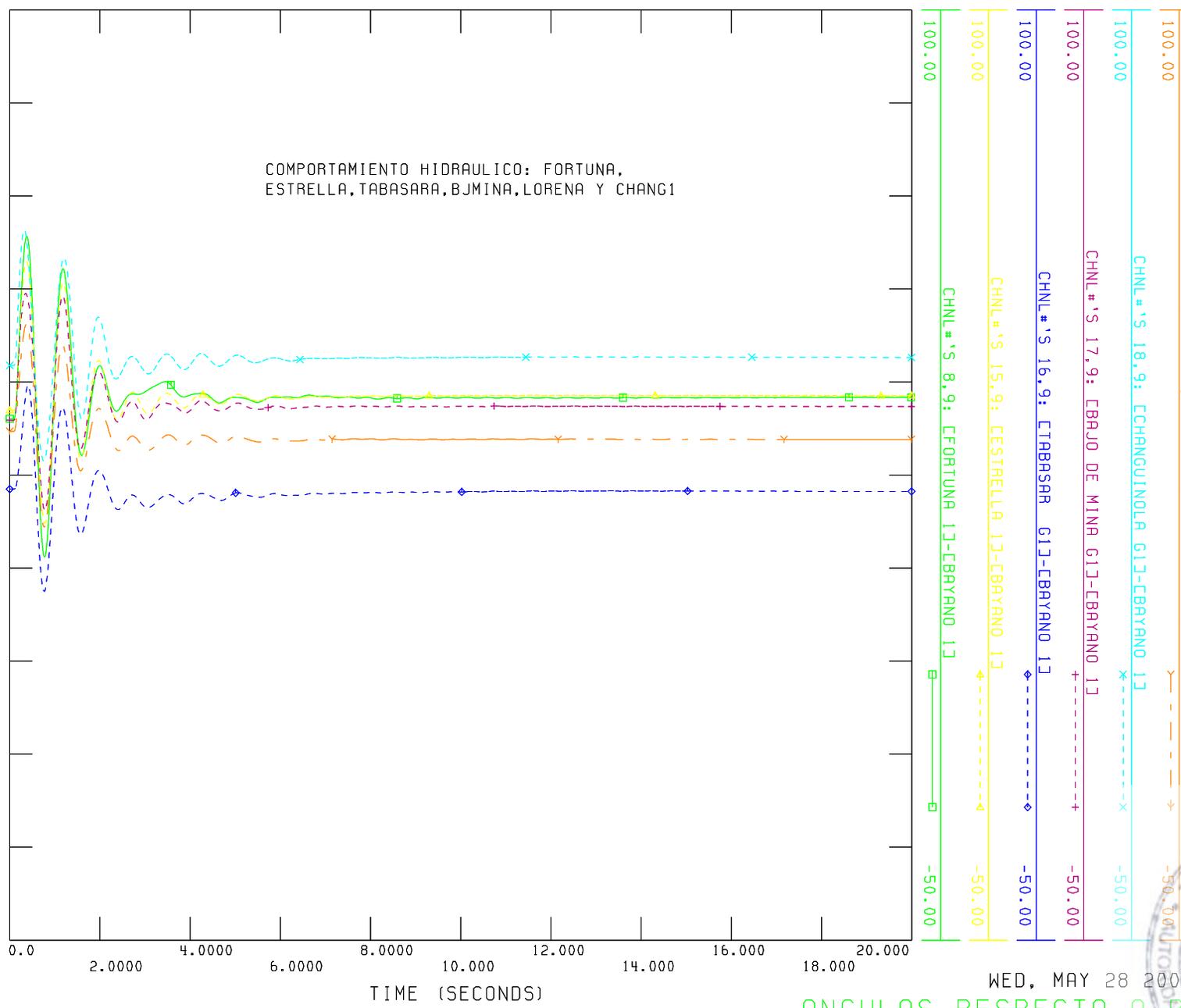
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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n4.out

COMPORTAMIENTO HIDRAULICO: FORTUNA,
ESTRELLA, TABASARA, BJMINA, LORENA Y CHANG1



WED, MAY 28 2008 8:33

ANGULOS RESPECTO A BAYANO



Handwritten signature



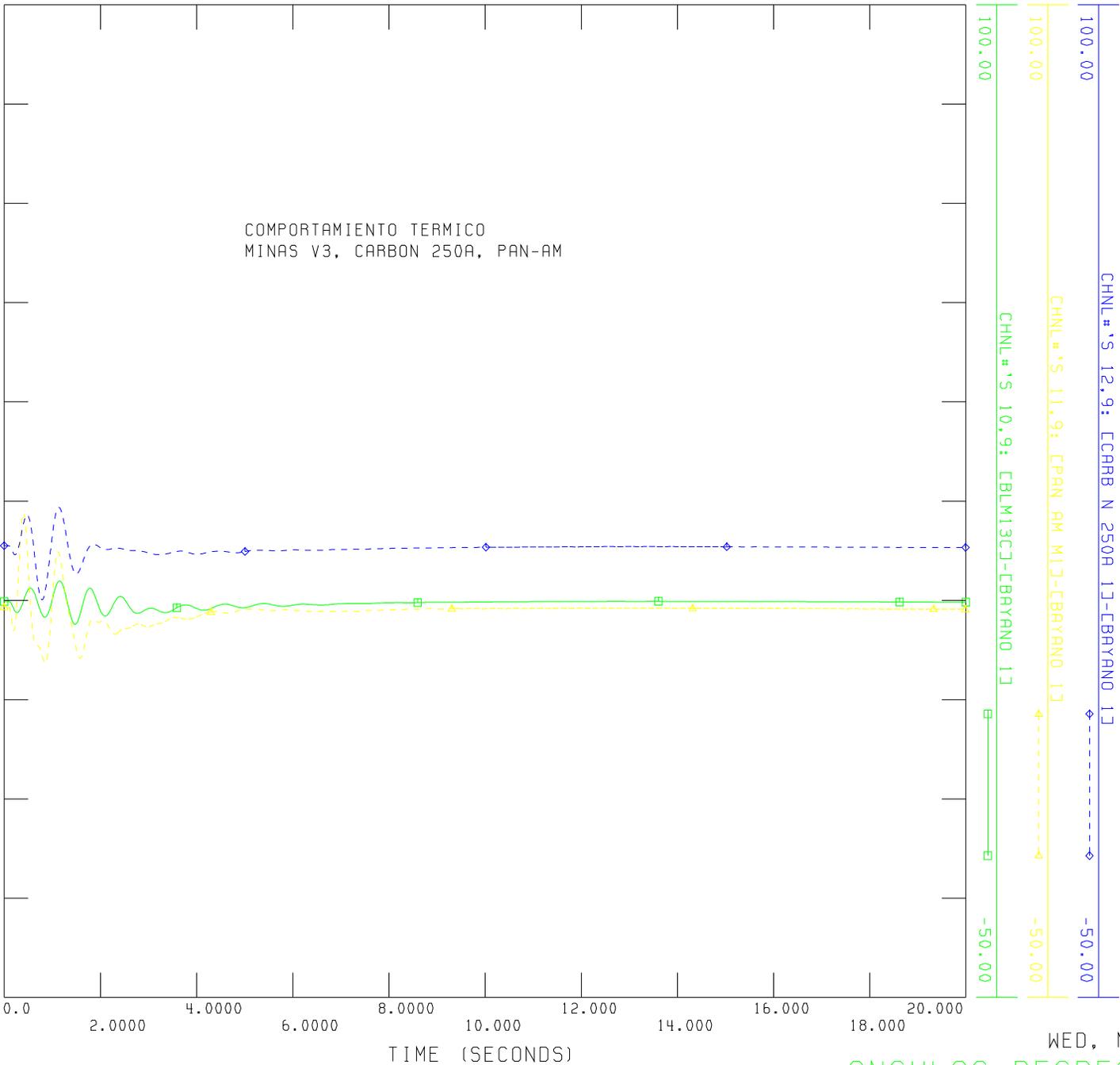
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n1.out



WED, MAY 28, 2008 8:39

ANGULOS RESPECTO A BAYANO



AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8



de



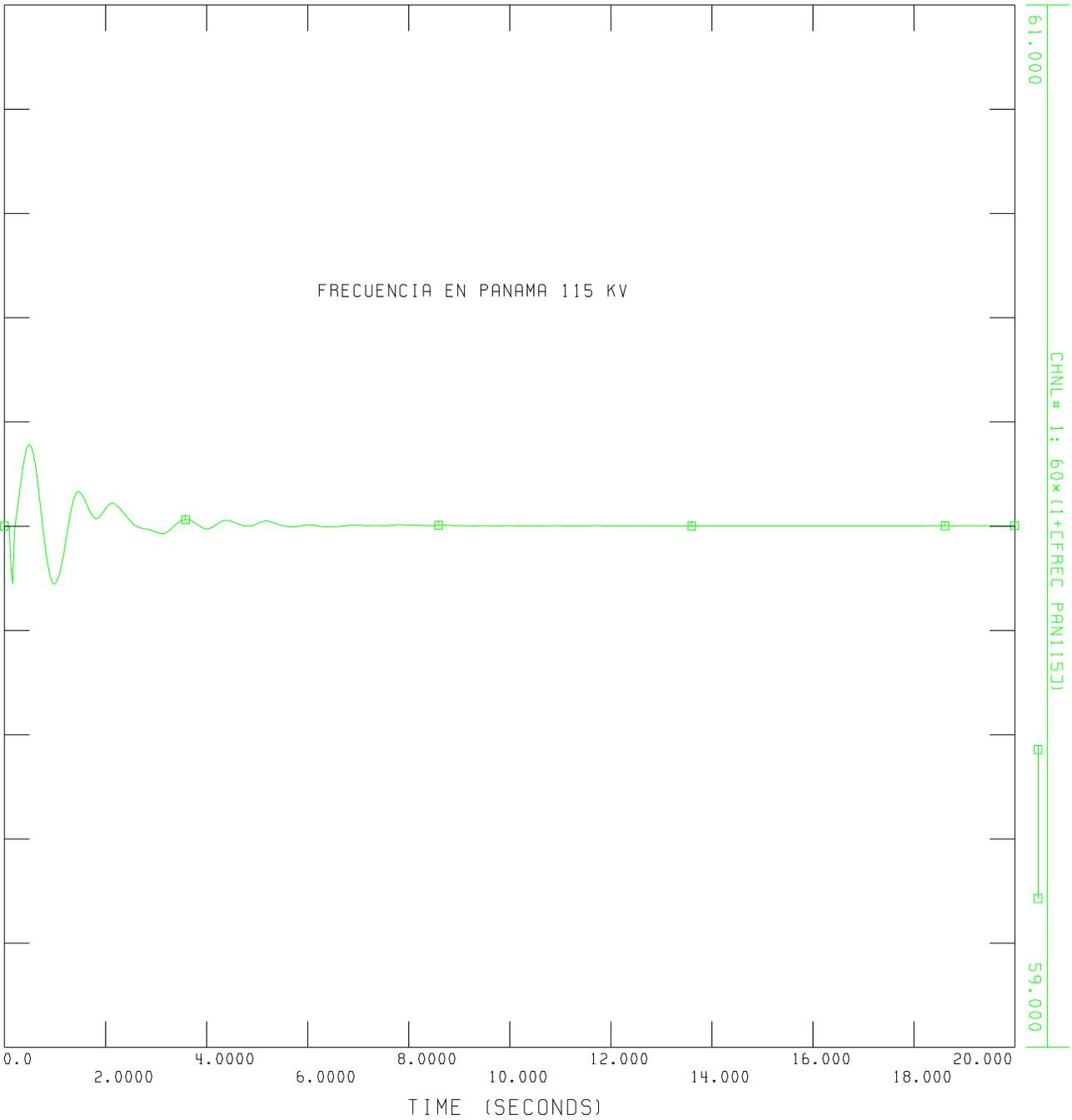
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

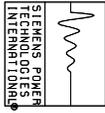
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TUE, JUN 03 2008 10:11

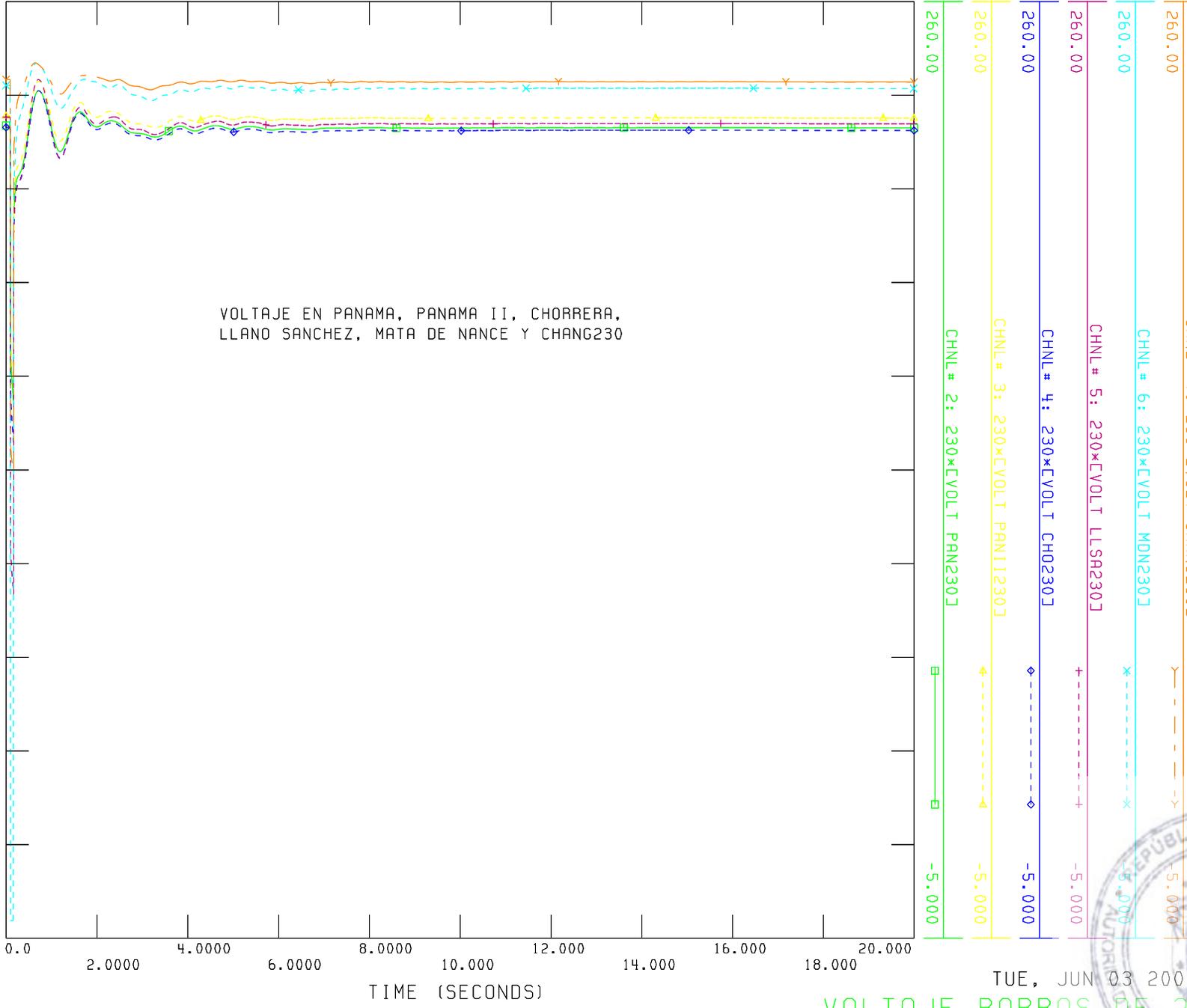
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out



TUE, JUN 03 2008 10:31

VOLTAGE BARRAS DE 230 KV

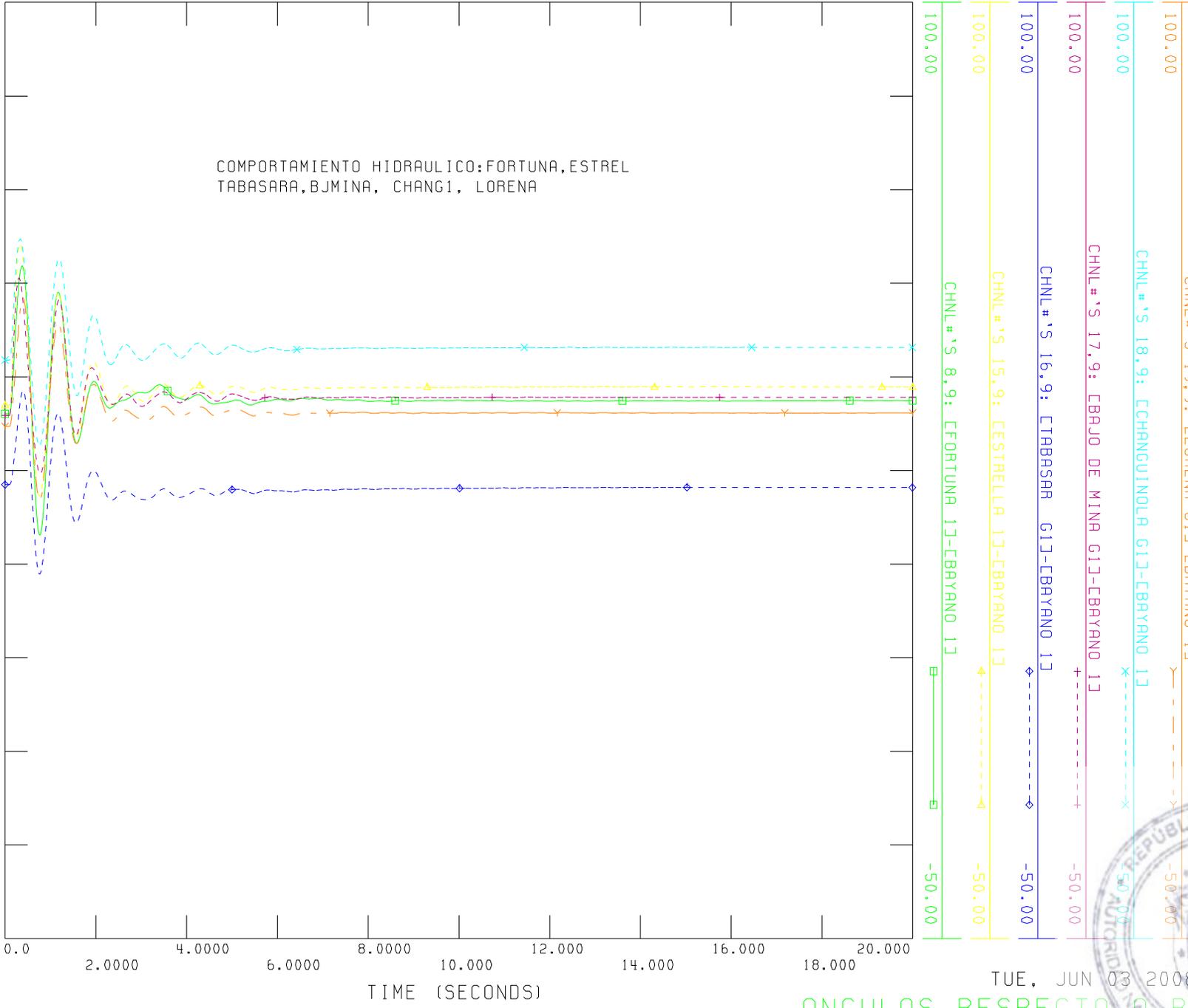
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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out

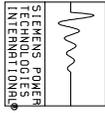
COMPORTAMIENTO HIDRAULICO: FORTUNA, ESTRELLA, TABASARA, BJMINA, CHANG1, LORENA



TUE, JUN 03 2008 10:55

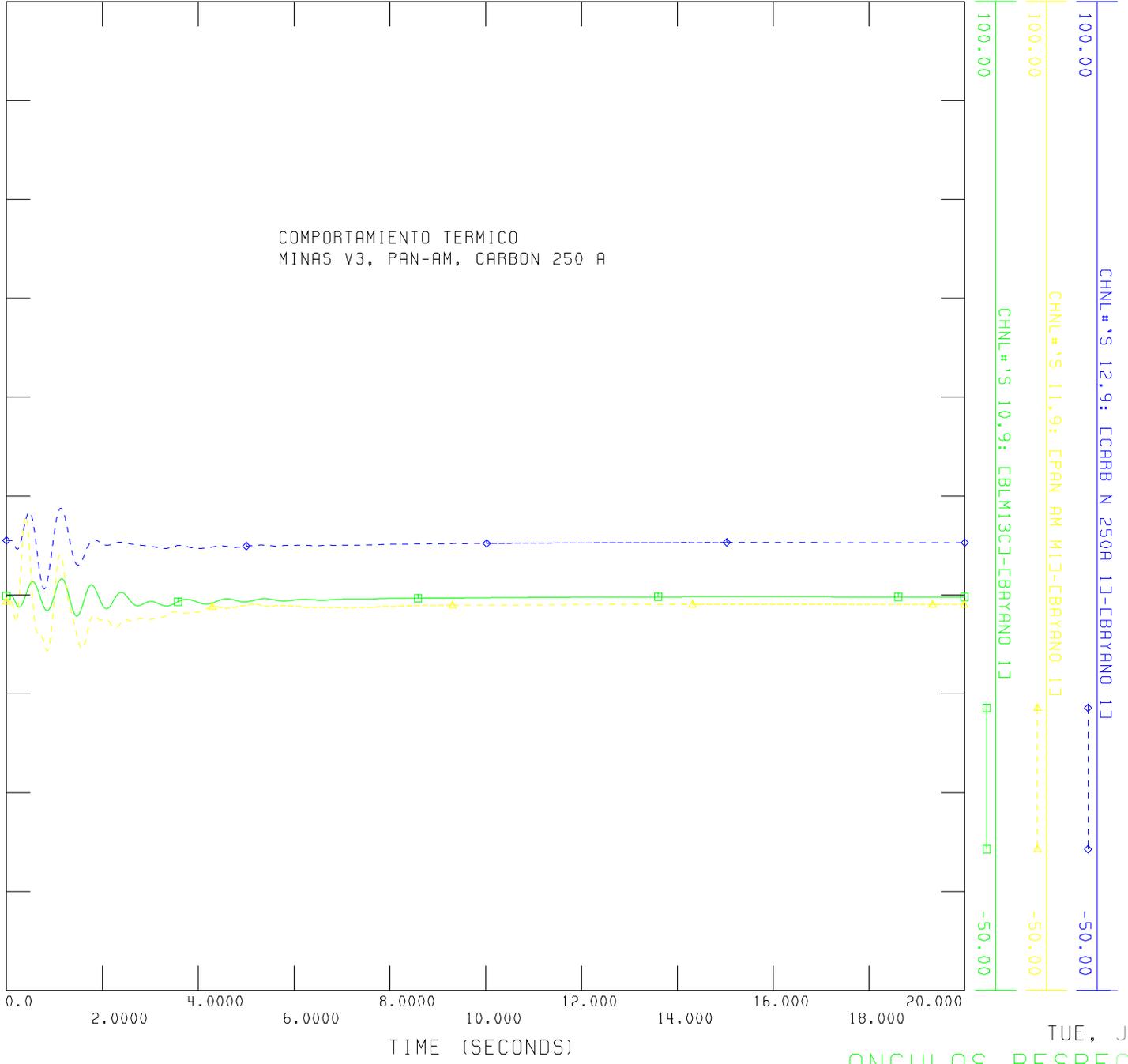
ANGULOS RESPECTO A BAYANO

Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out



TUE, JUN 03 2008 10:59

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8
Caso 2: REGMHTGDC8**



de

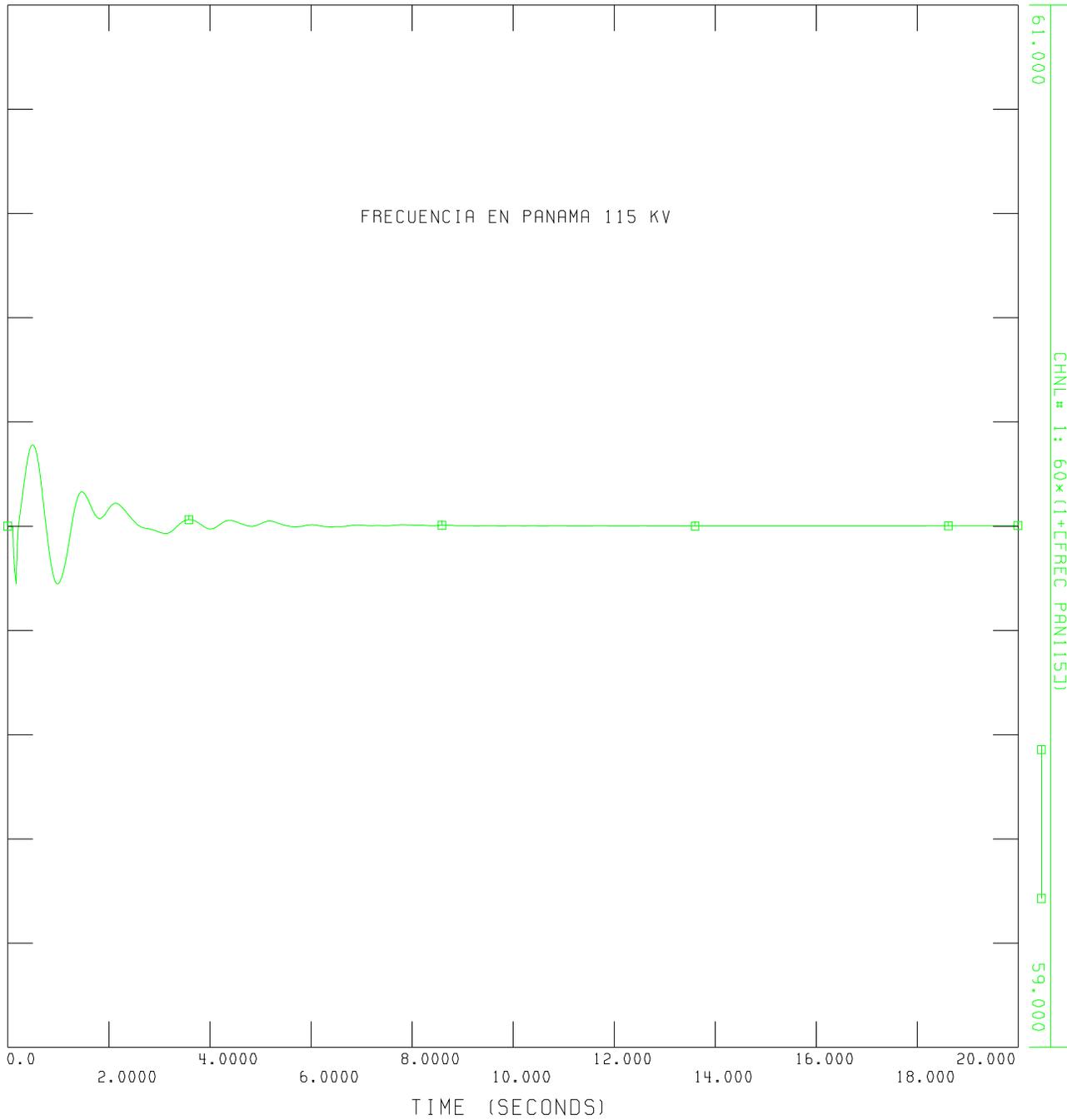


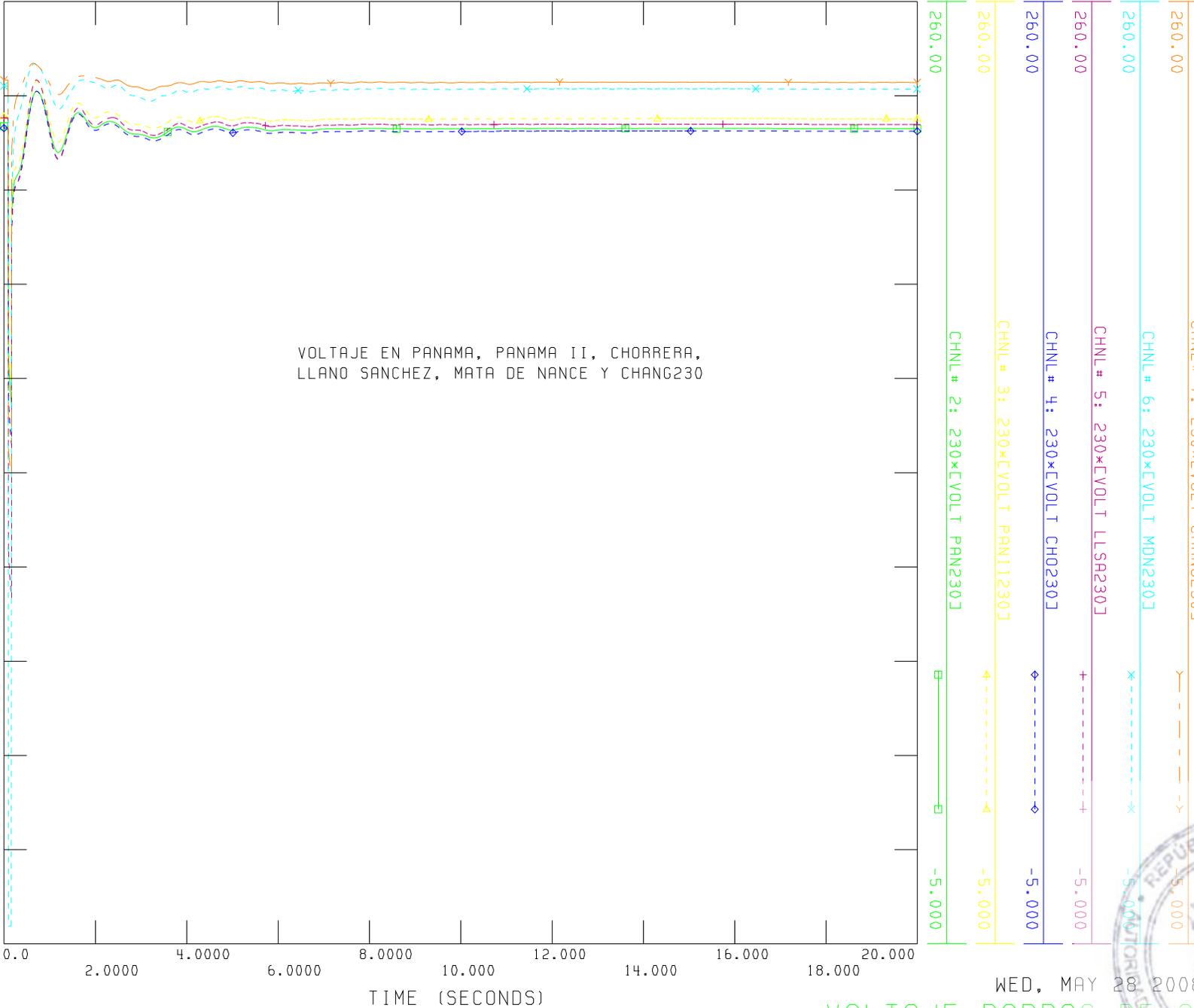
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out



WED, MAY 28 2008 8:49
FRECUENCIA EN HZ





VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



WED, MAY 28 2008 8:59

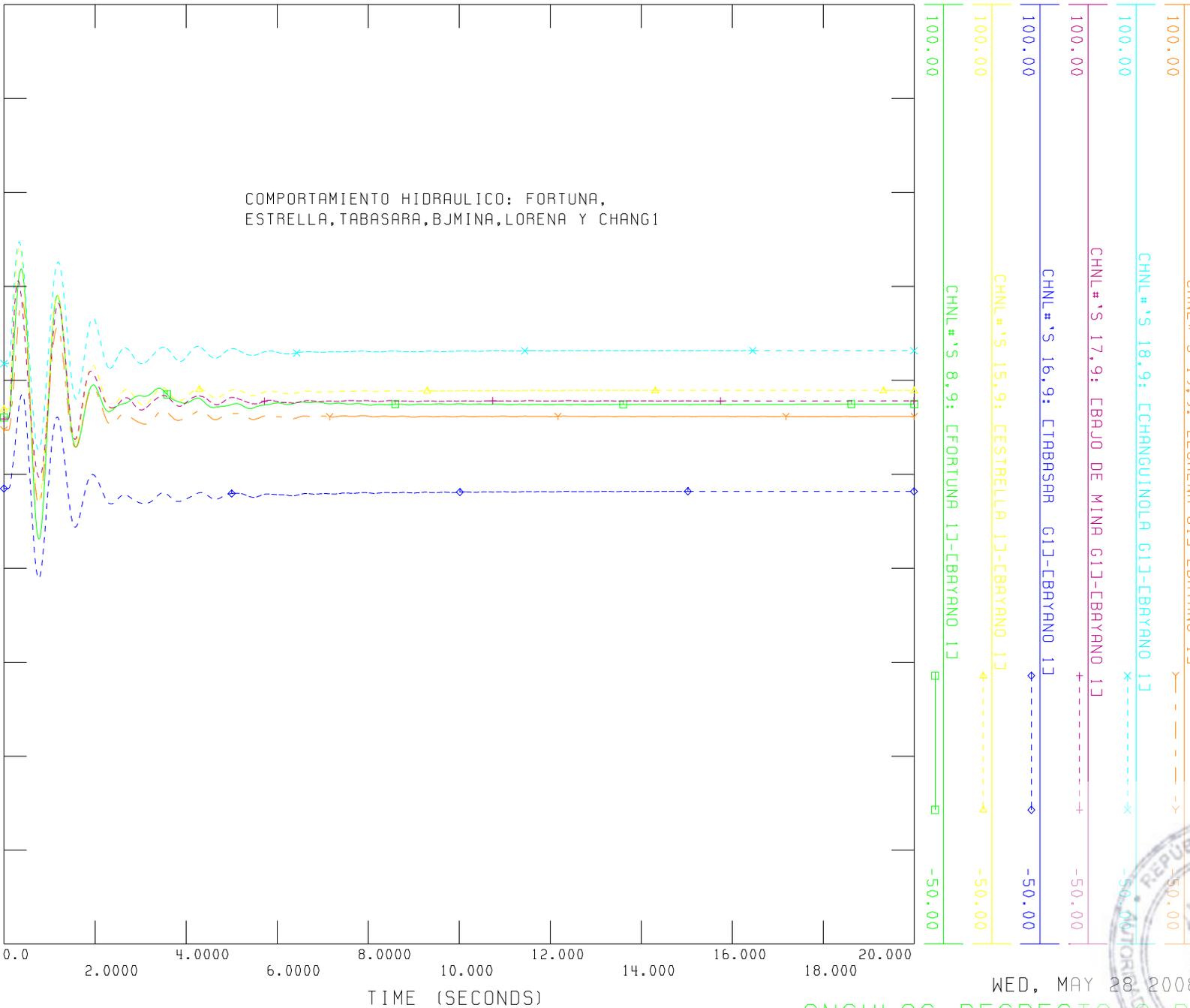
VOLTAJE BARRAS DE 230 KV

Handwritten signature or initials.



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2012

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out



WED, MAY 28 2008 9:03

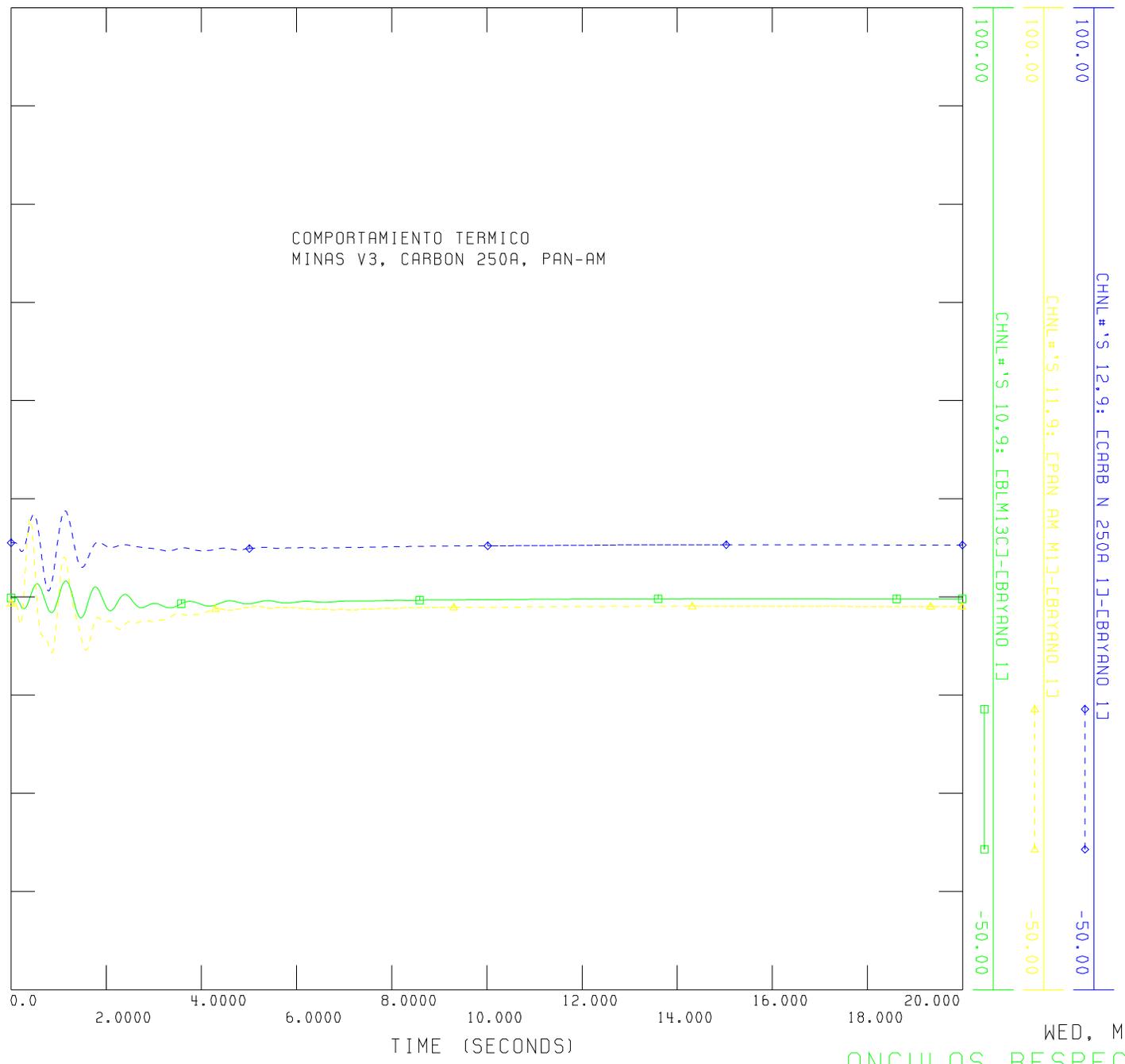
ANGULOS RESPECTO A BAYANO

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2012PE_ModMax-InvCarb n5.out



WED, MAY 28 2008 9:06

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

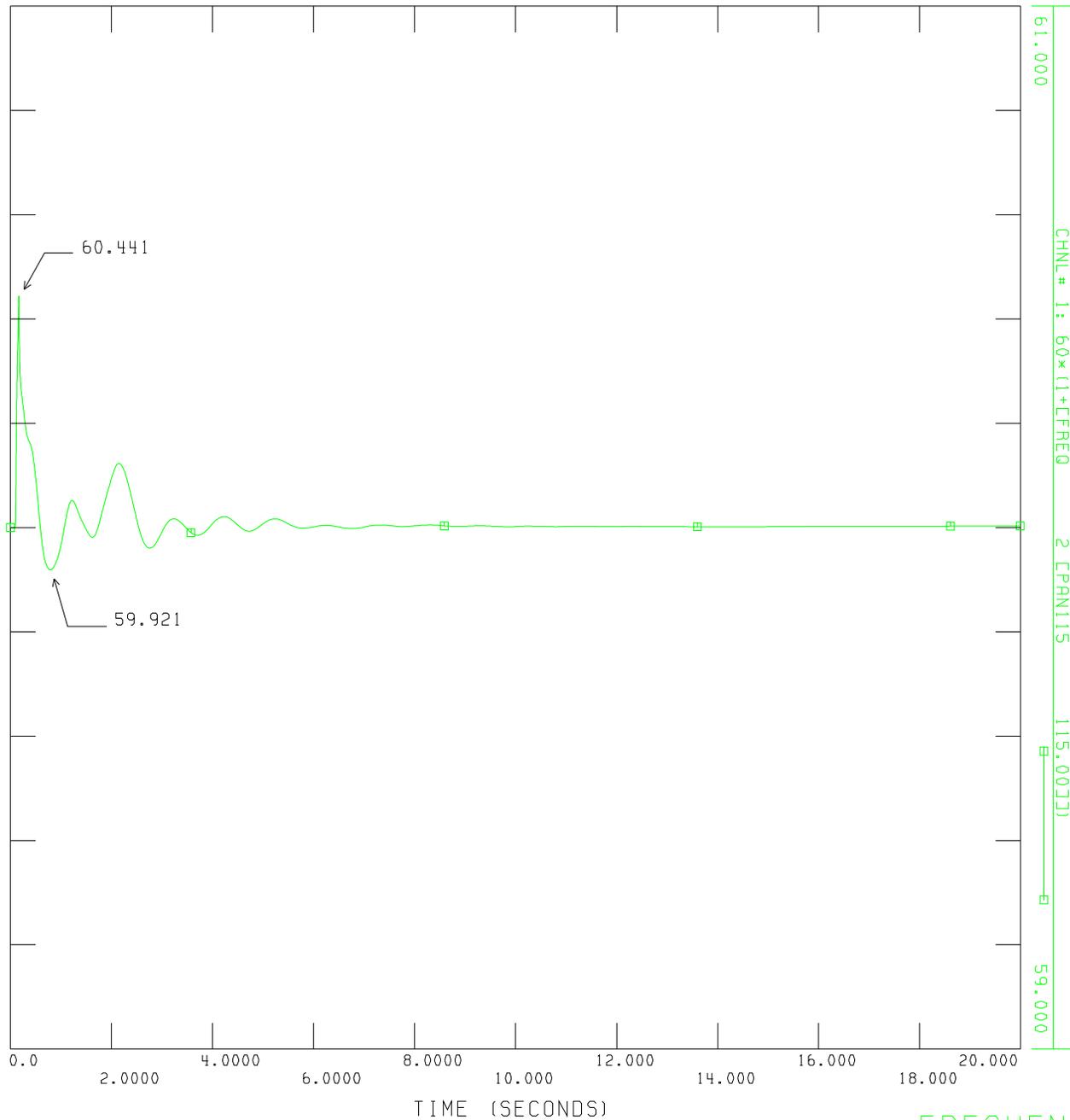


de



PLAN: EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012 REGMHTTLR8

FILE: ... VESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Concl. out



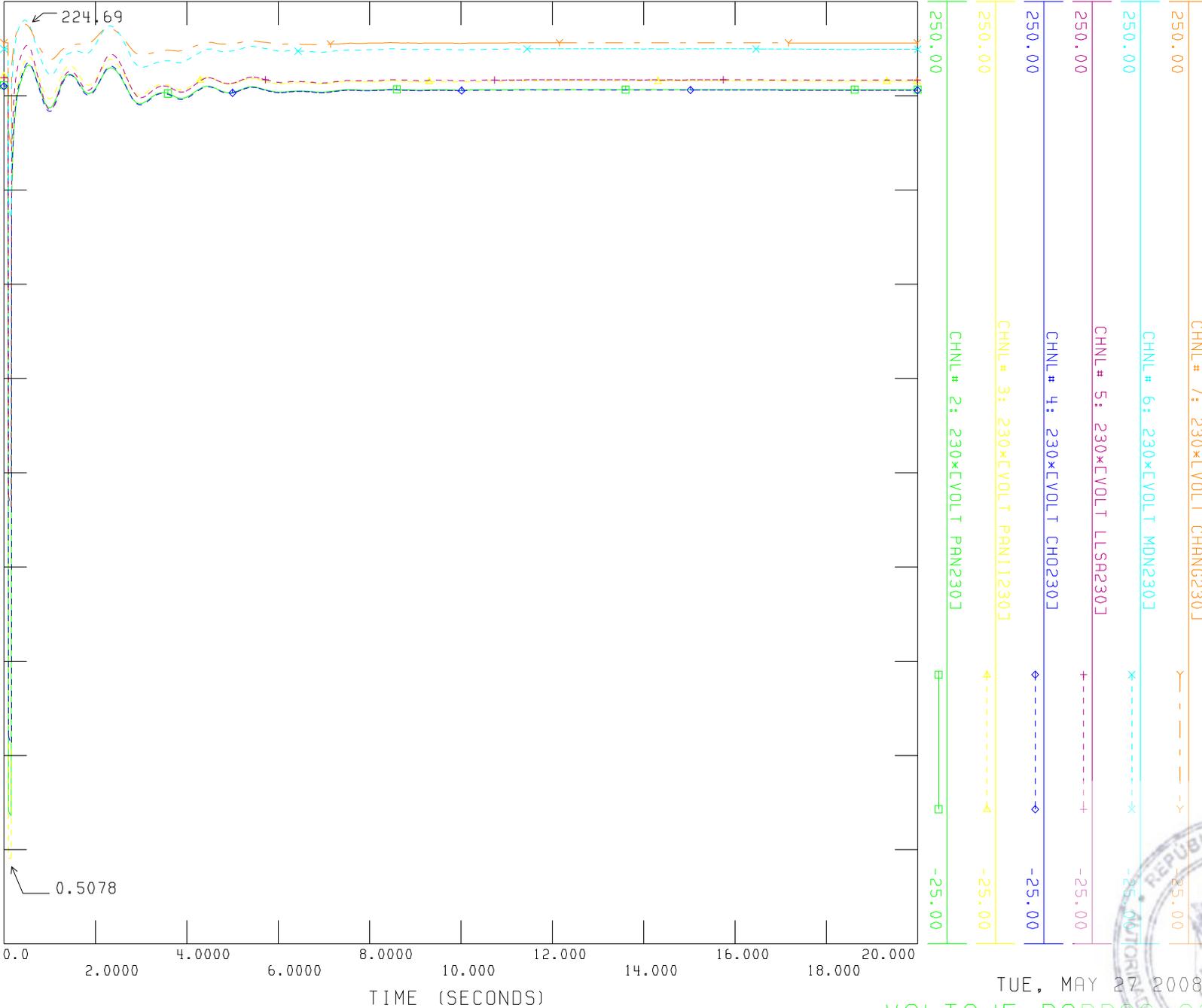
TUE, MAY 27 2008 16:26

FRECUENCIA PANAMA 115 KV



Handwritten signature

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTLRA8 Cont1.out



TUE, MAY 27 2008 16:45
VOLTAJE BARRAS 230 KV



Handwritten signature or initials.



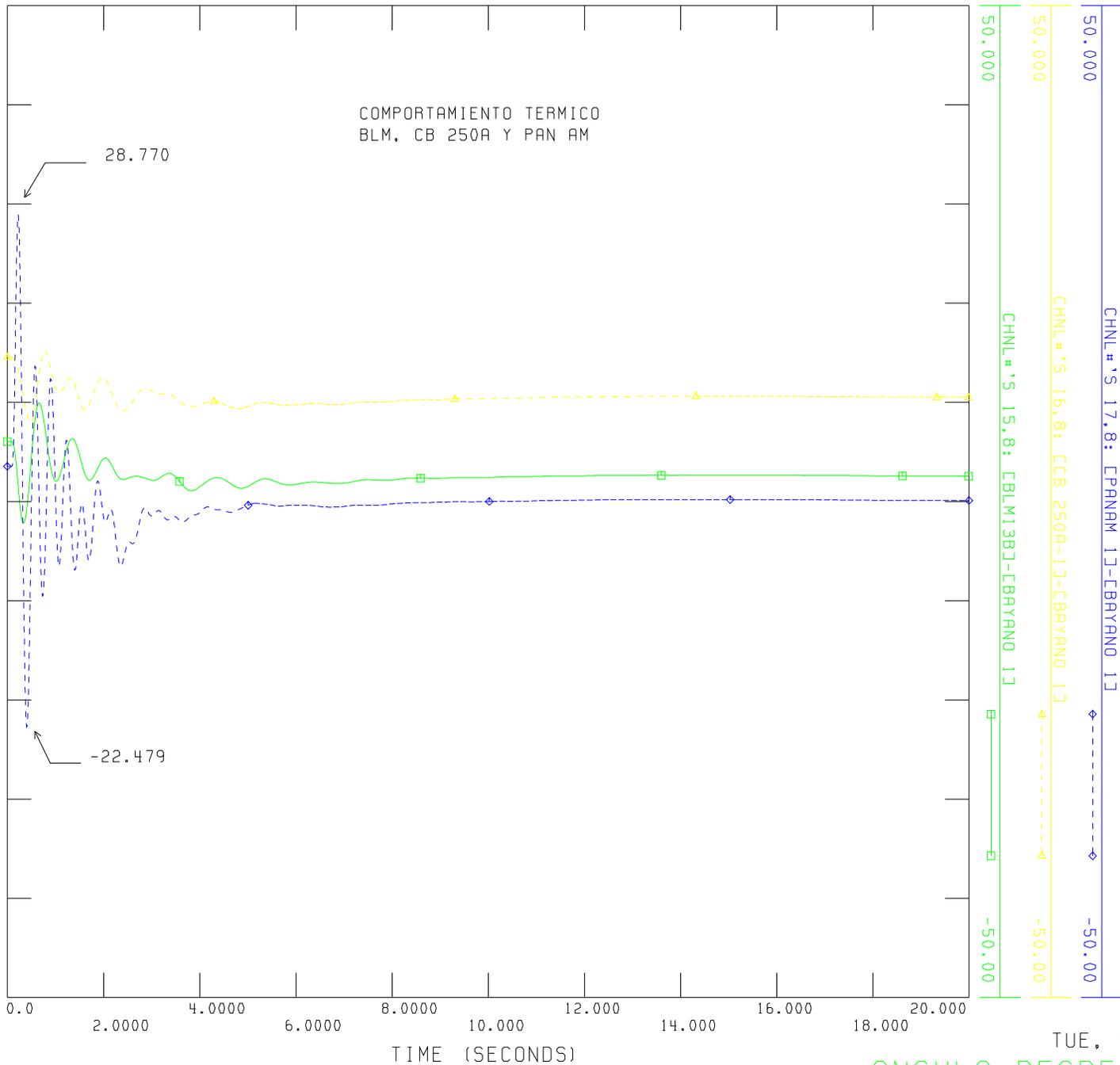
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Concl1.out



TUE, MAY 27 2008 17:12

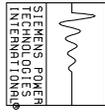
ANGULO RESPECTO A BAYANO



**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II- LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

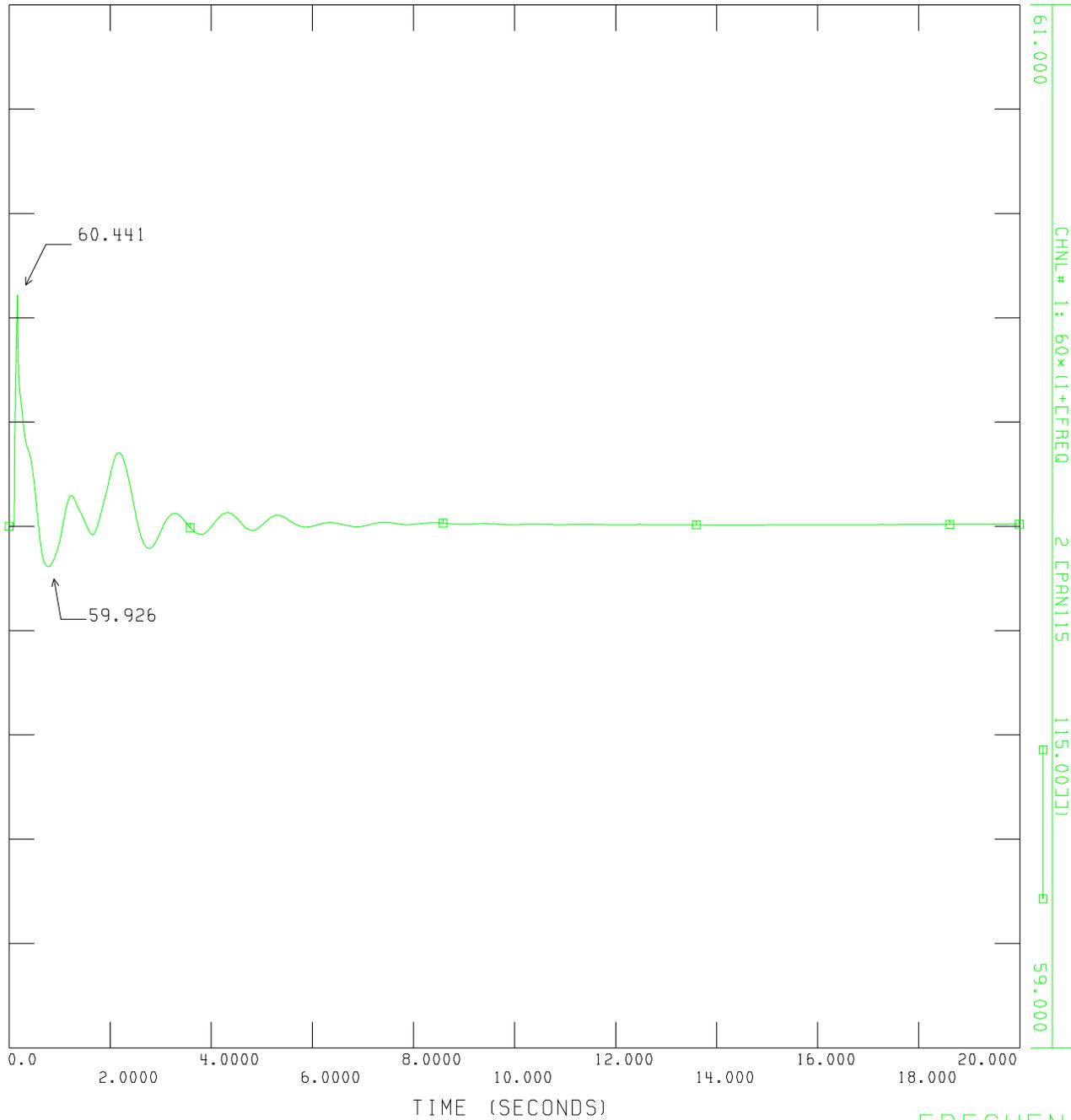


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont2.out



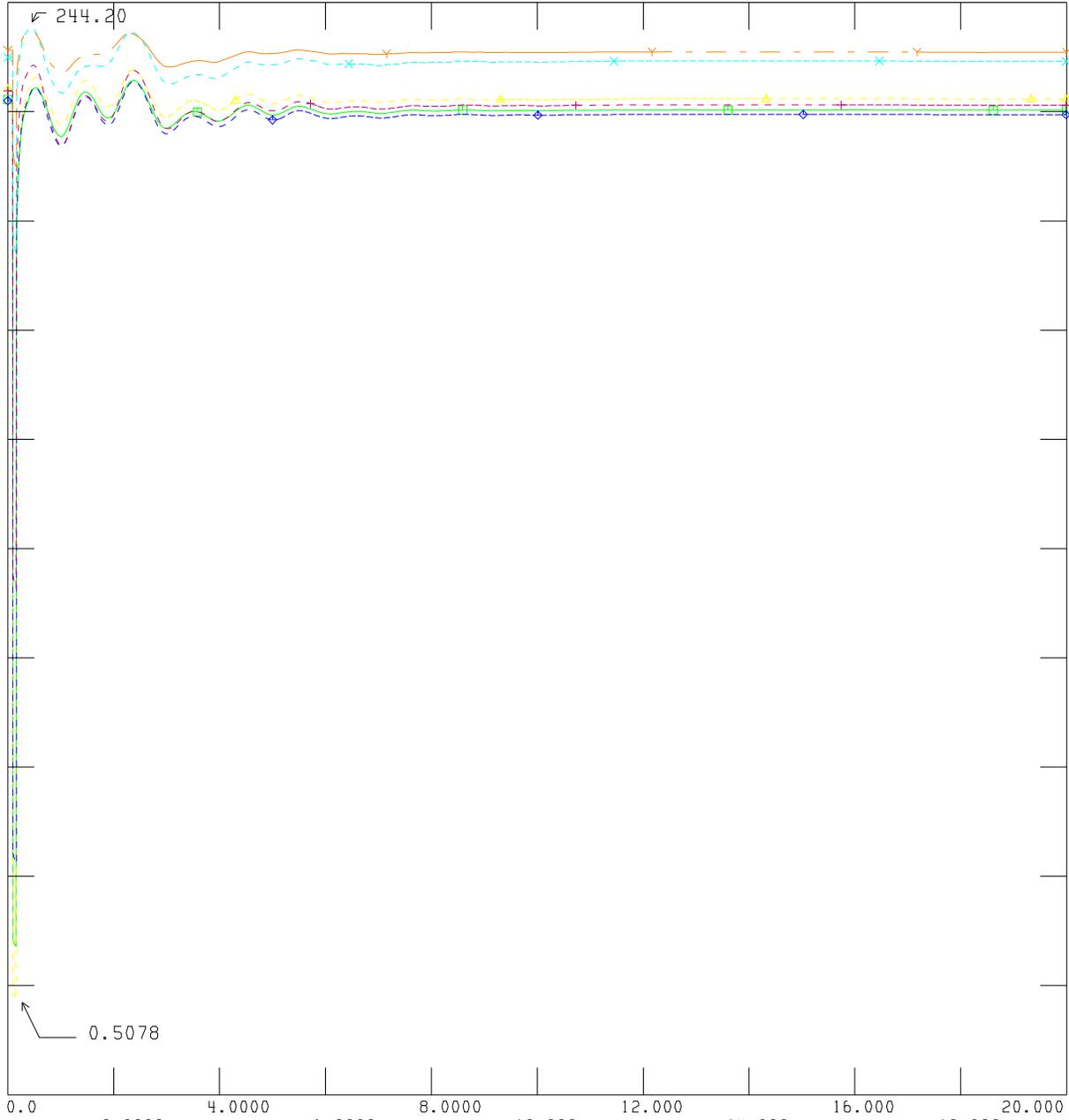
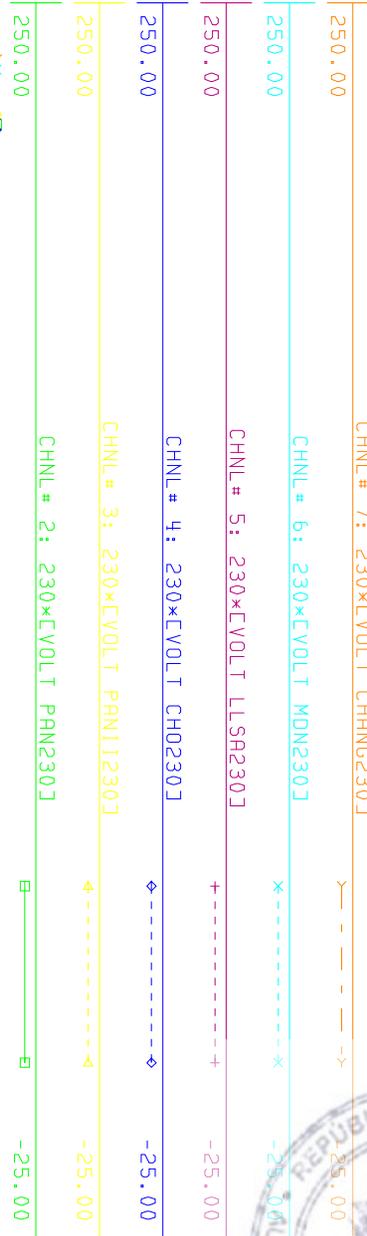
TUE, MAY 27 2008 17:20

FRECUENCIA PANAMA 115 KV



Handwritten signature

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTLRA8 Cont2.out



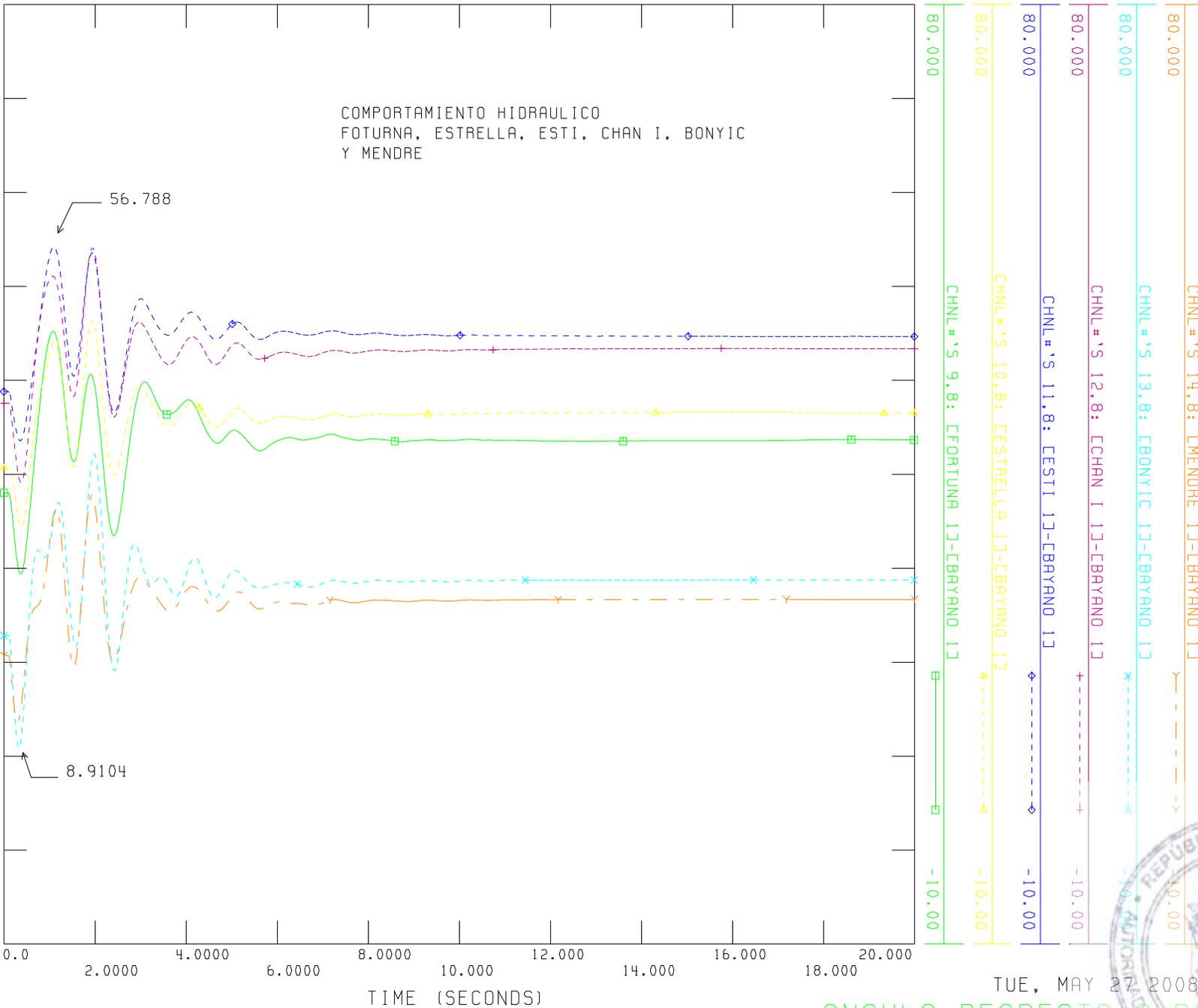
TUE, MAY 27 2008 17:28

VOLTAJE BARRAS 230 KV



Handwritten signature or initials.

FILE: ... \ESTABILIDAD 2012\2012PE ModMax-Inv-REGMHTTLR8 Cont2.out



TUE, MAY 27 2008 17:27

ANGULO RESPECTO A BAYANO

Handwritten signature or initials.



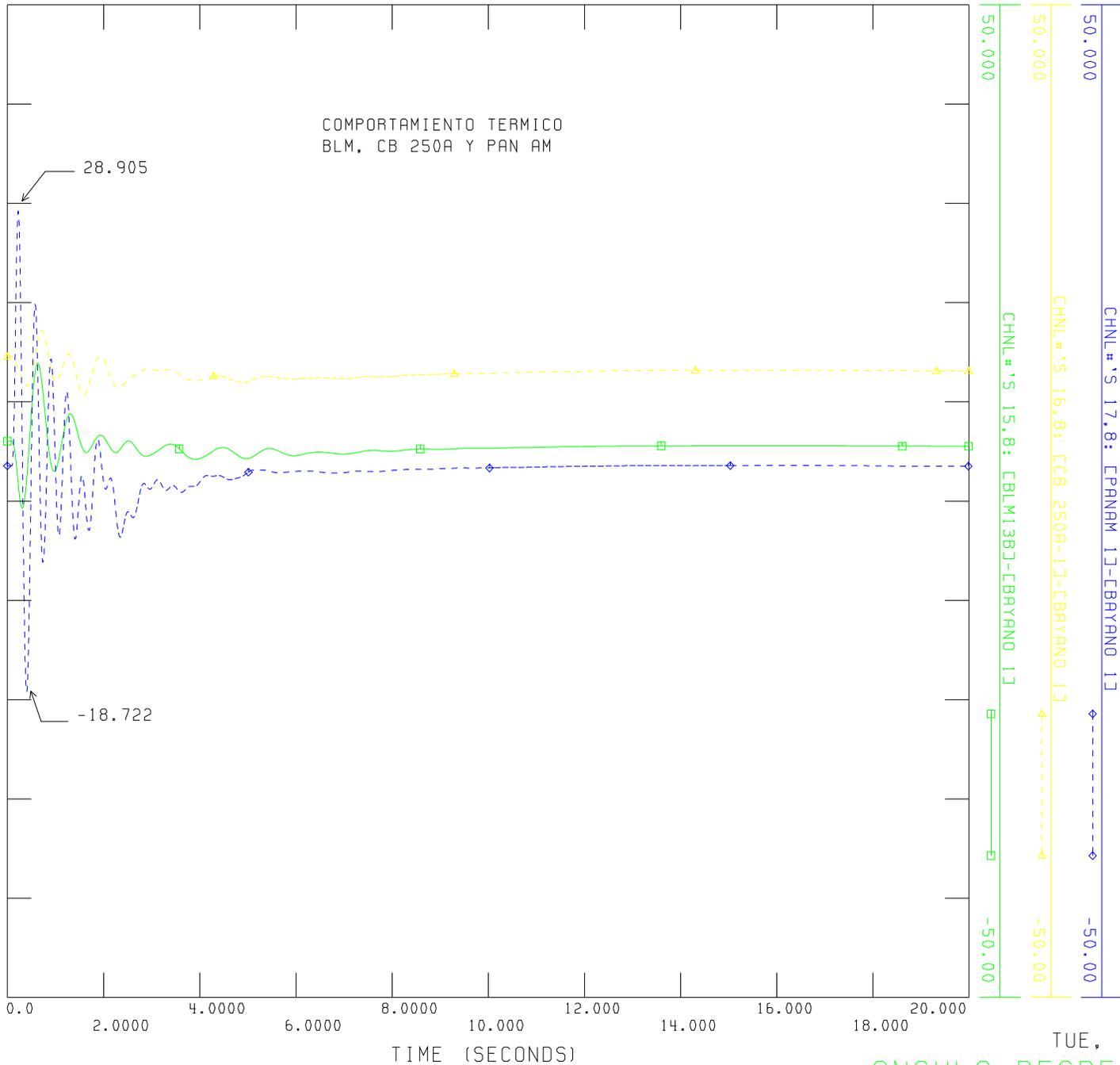
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont2.out



TUE, MAY 27 2008 17:30

ANGULO RESPECTO A BAYANO



**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

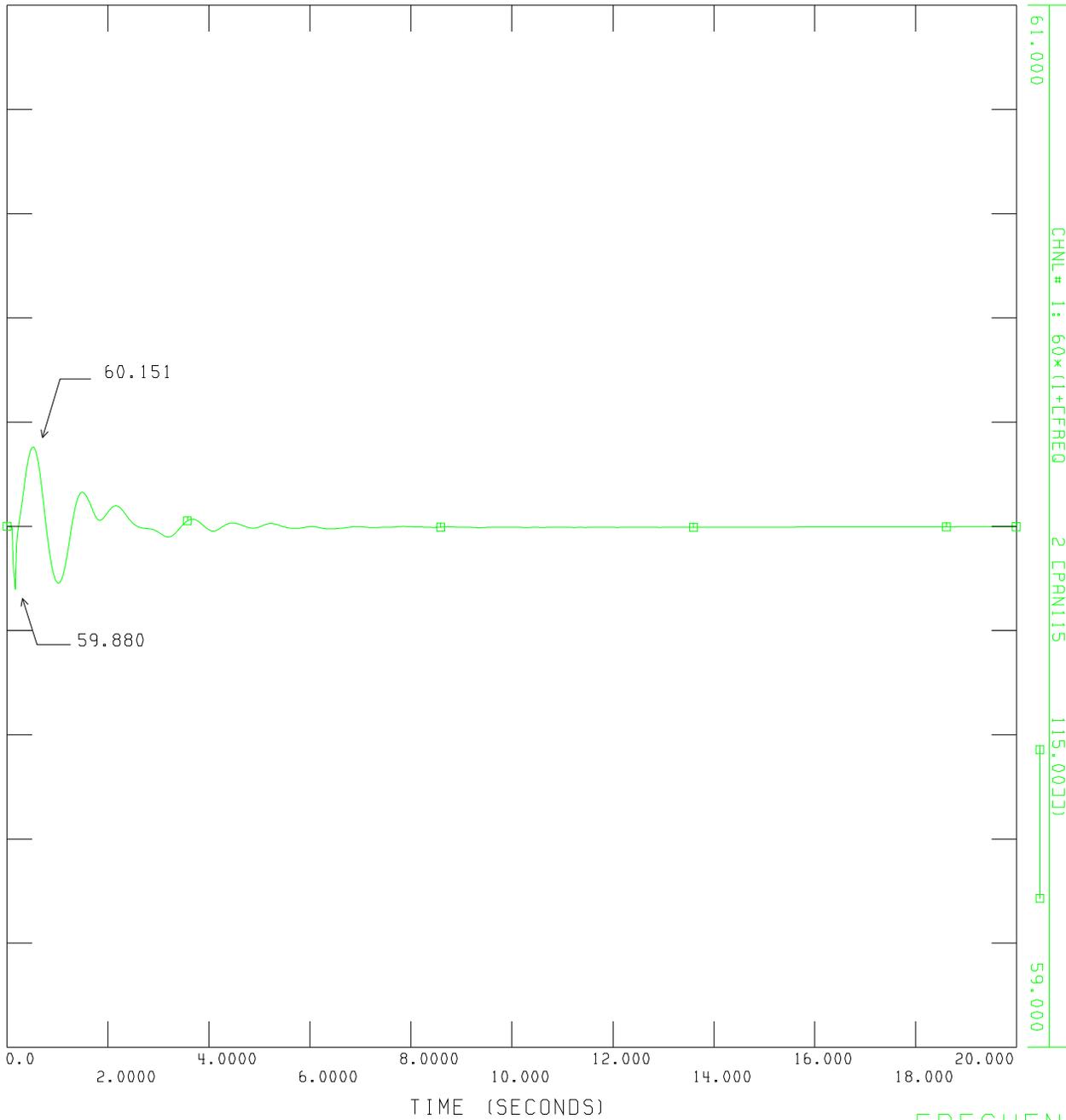


de



PLAN: EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012 REGMHTTLR8

FILE: ... VESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Con 3.0 out



TUE, MAY 27 2008 17:39

FRECUENCIA PANAMA 115 KV

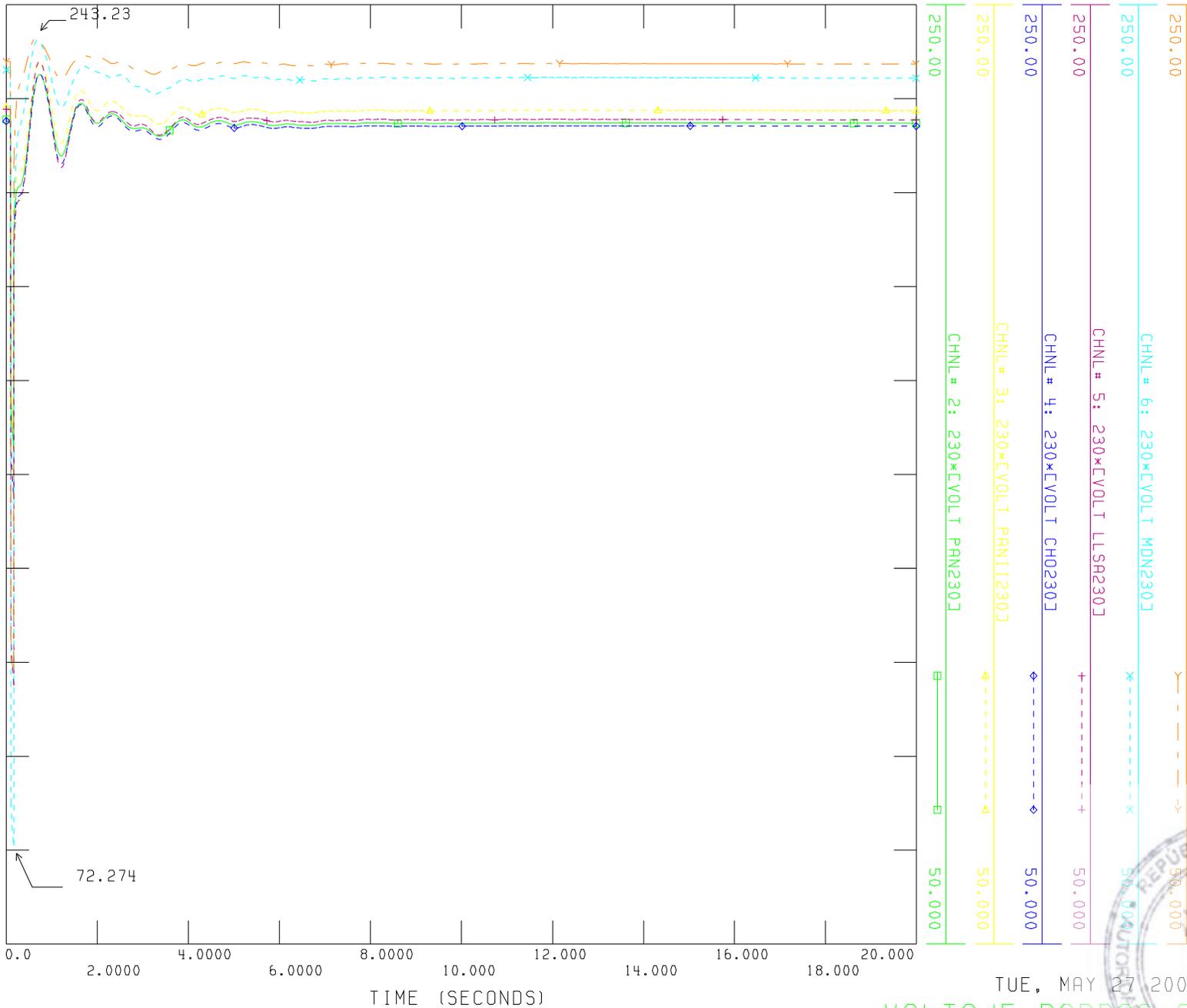


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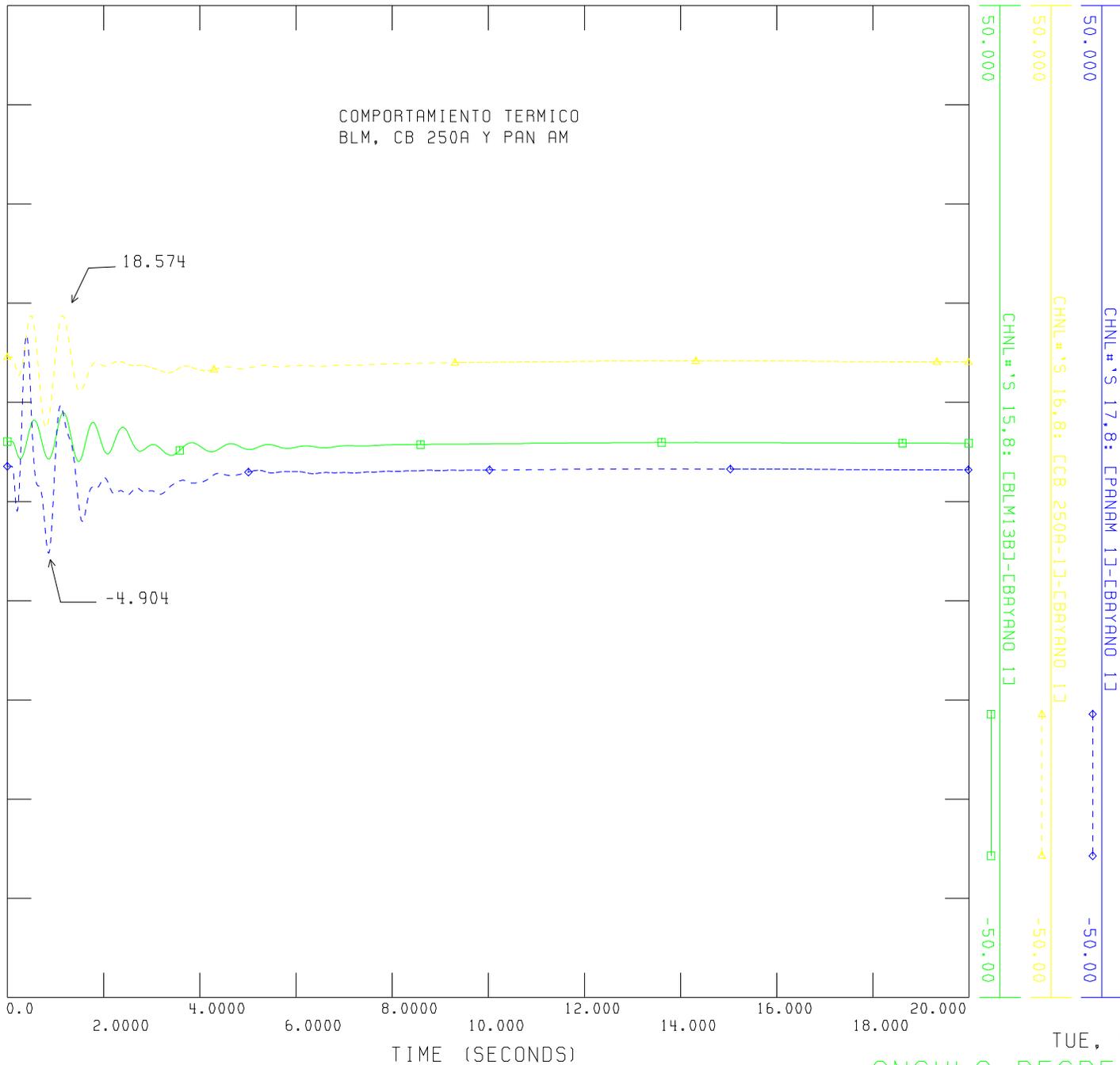
PLAN: EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2012 REGMHTTLR8

FILE: ... VESTABILIDRD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont3.out



TUE, MAY 27 2008 17:42
VOLTAJE BARRAS 230 KV

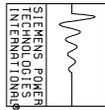
Handwritten signature



**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA - GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

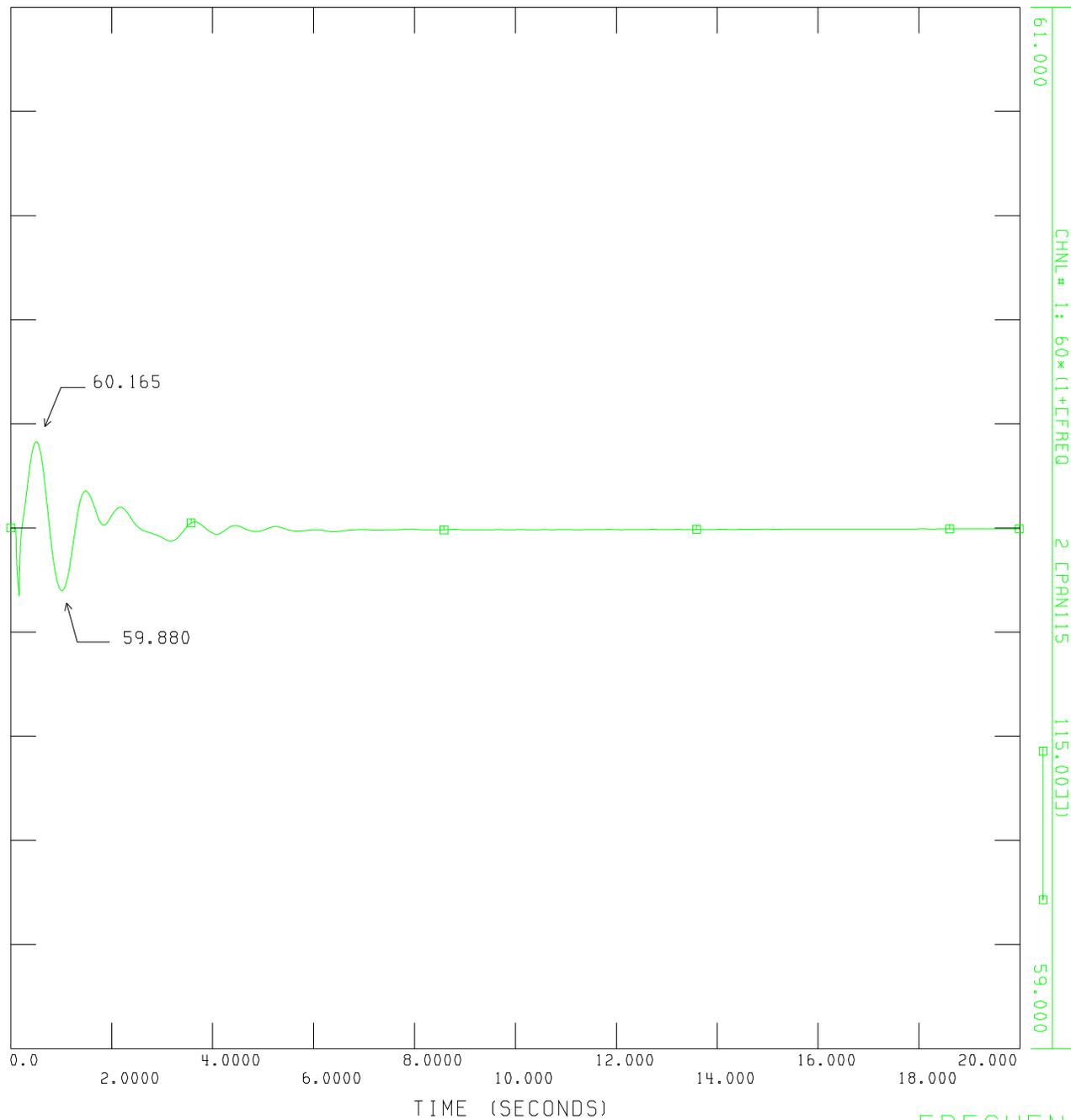


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 CONT4.OUT



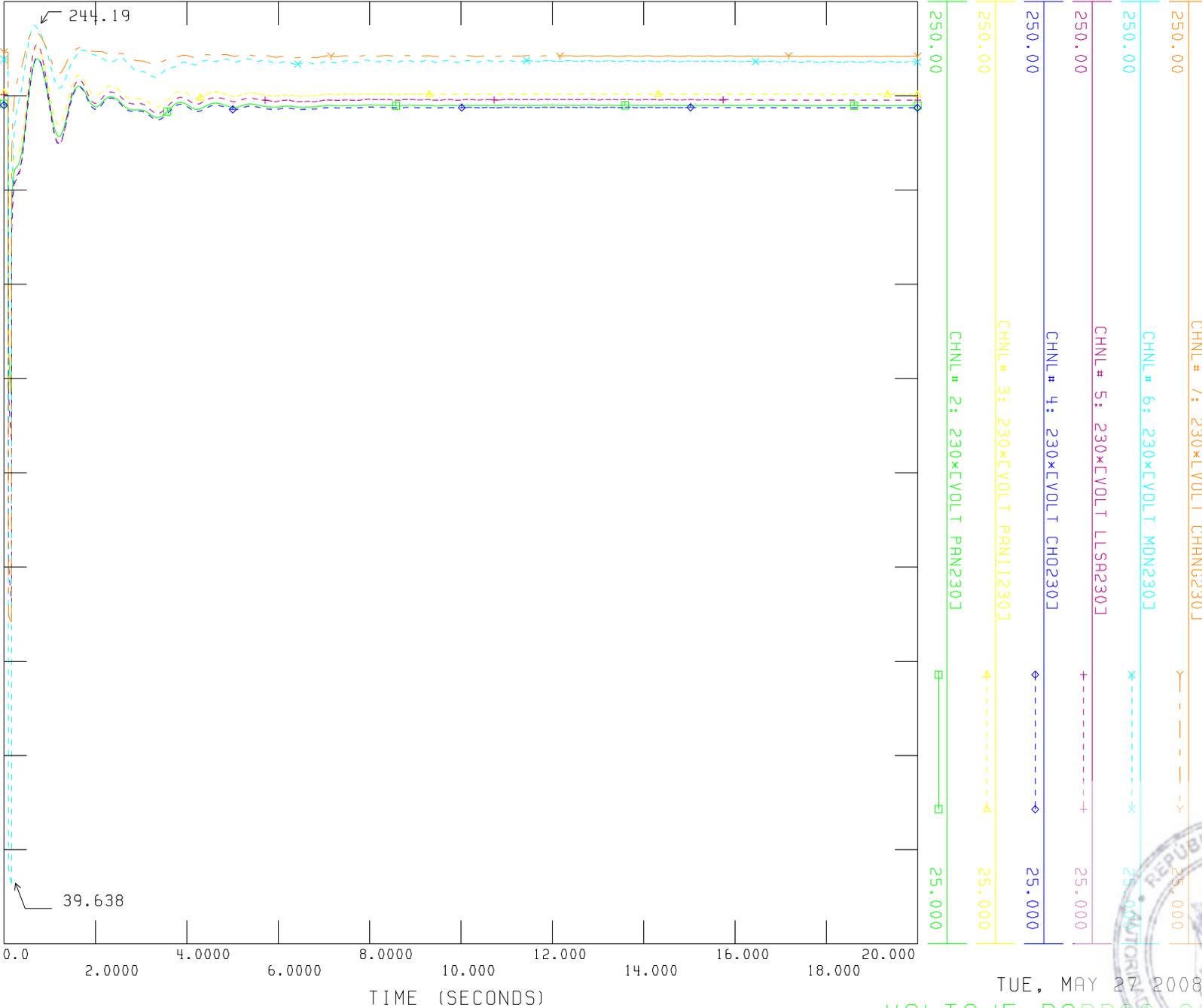
TUE, MAY 27 2008 18:40

FRECUENCIA PANAMA 115 KV



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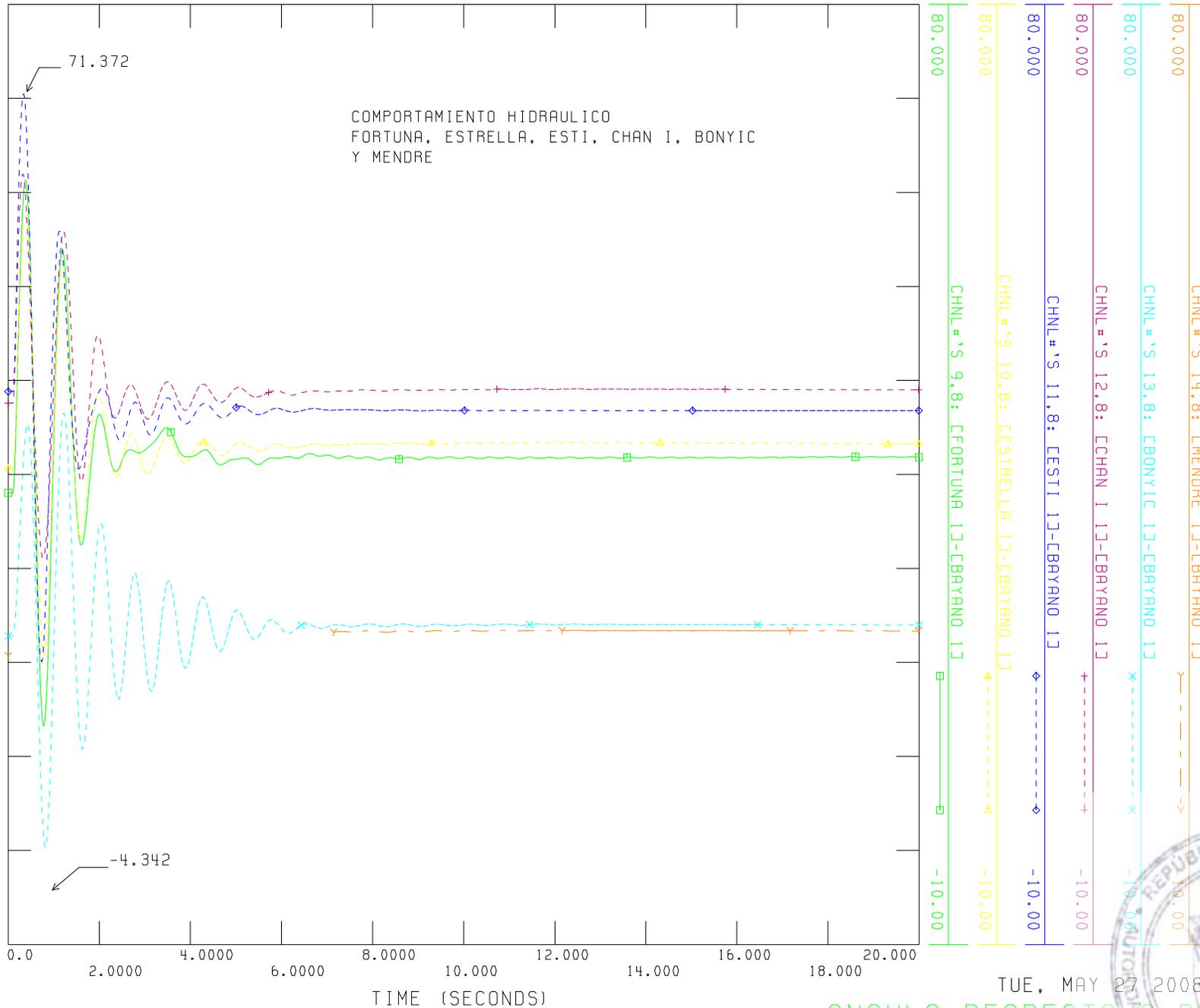
FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTLR8 Conth.out



TUE, MAY 27 2008 18:54
VOLTAJE BARRAS 230 KV

Handwritten signature or initials.

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont4.out



TUE, MAY 27 2008 18:58

ANGULO RESPECTO A BAYANO

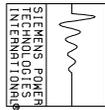


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**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

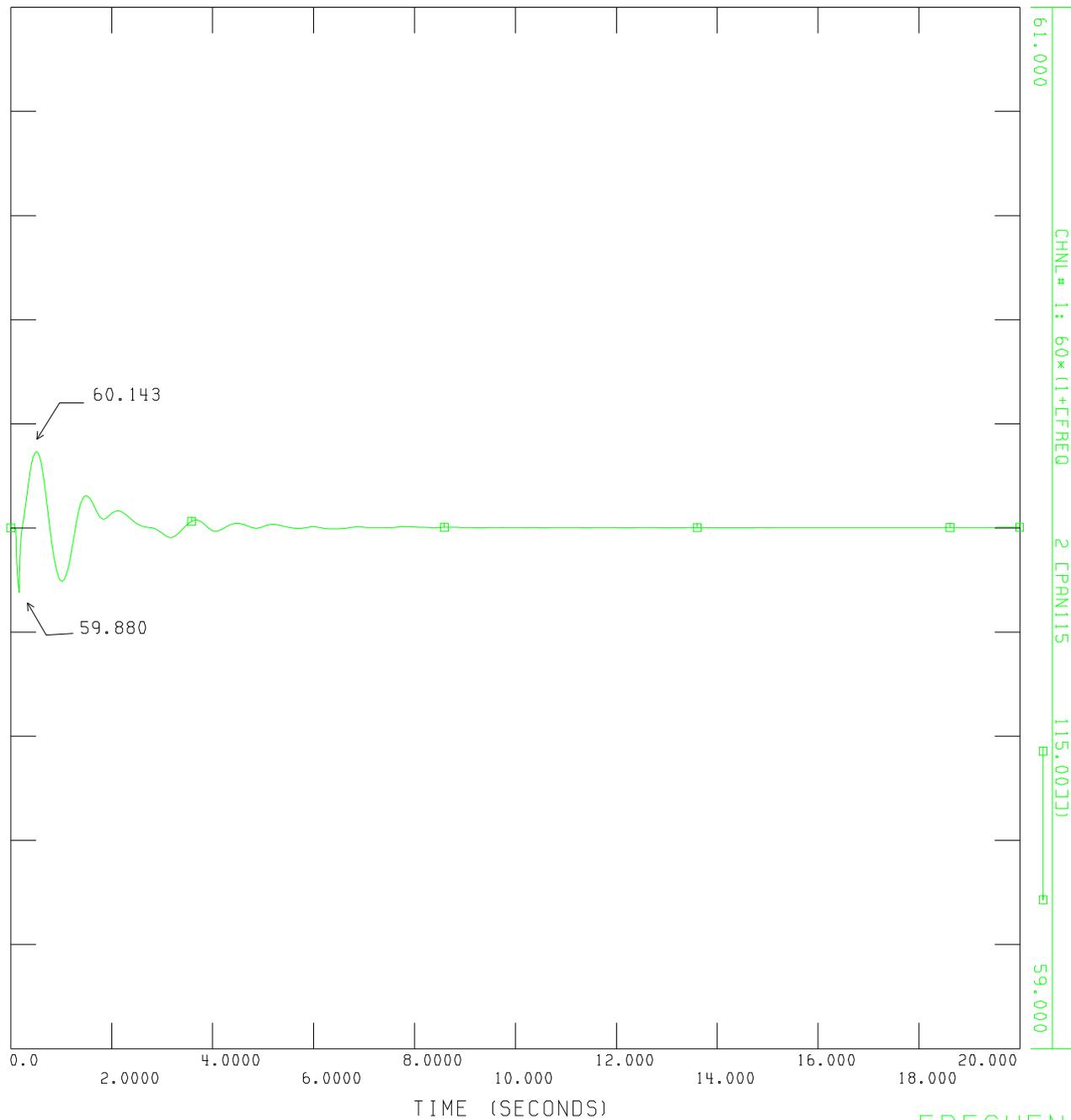


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 CONT5.OUT



TUE, MAY 27 2008 19:11

FRECUENCIA PANAMA 115 KV

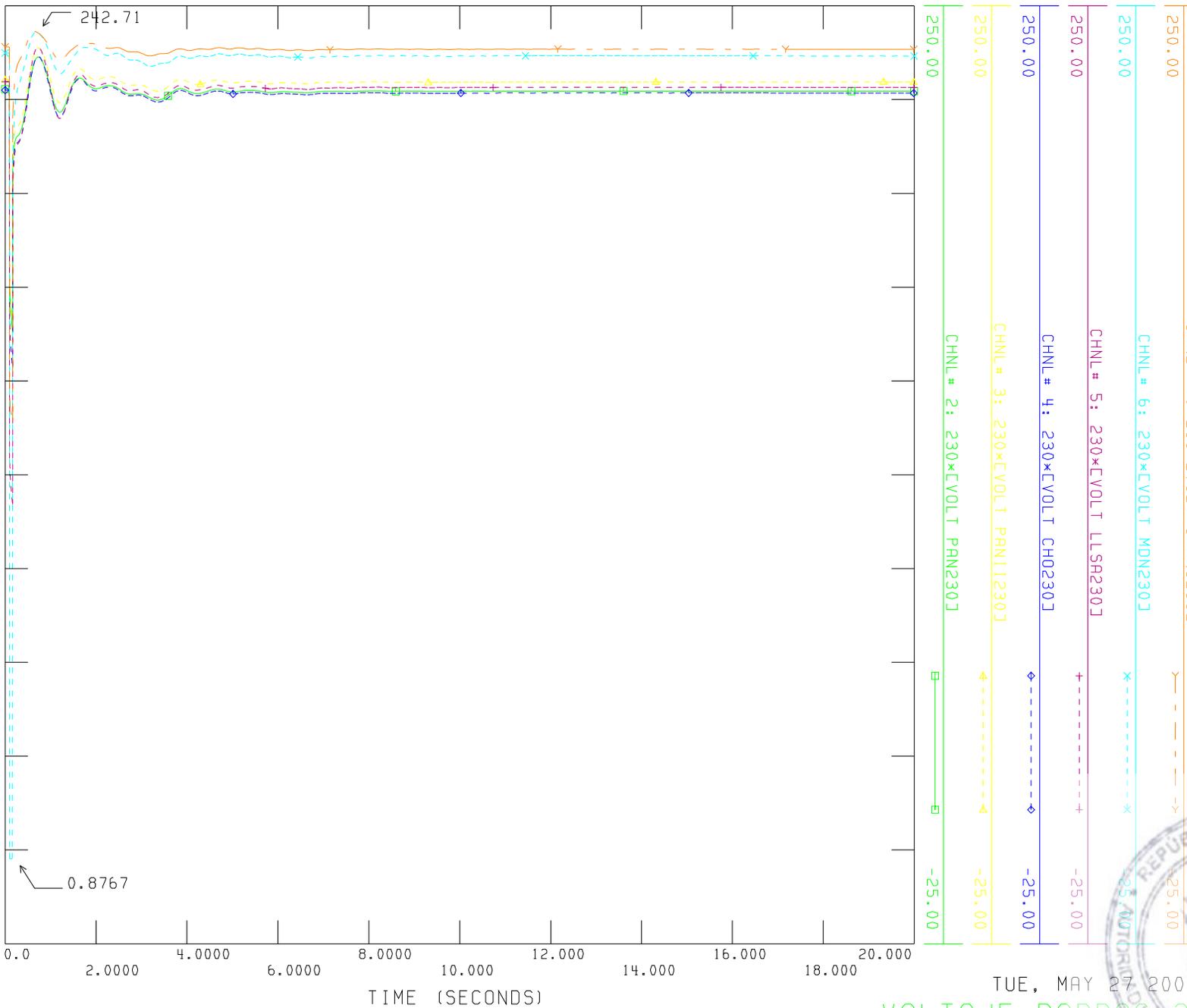


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 CONT5.out

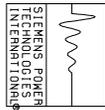


TUE, MAY 27 2008 19:18

VOLTAJE BARRAS 230 KV

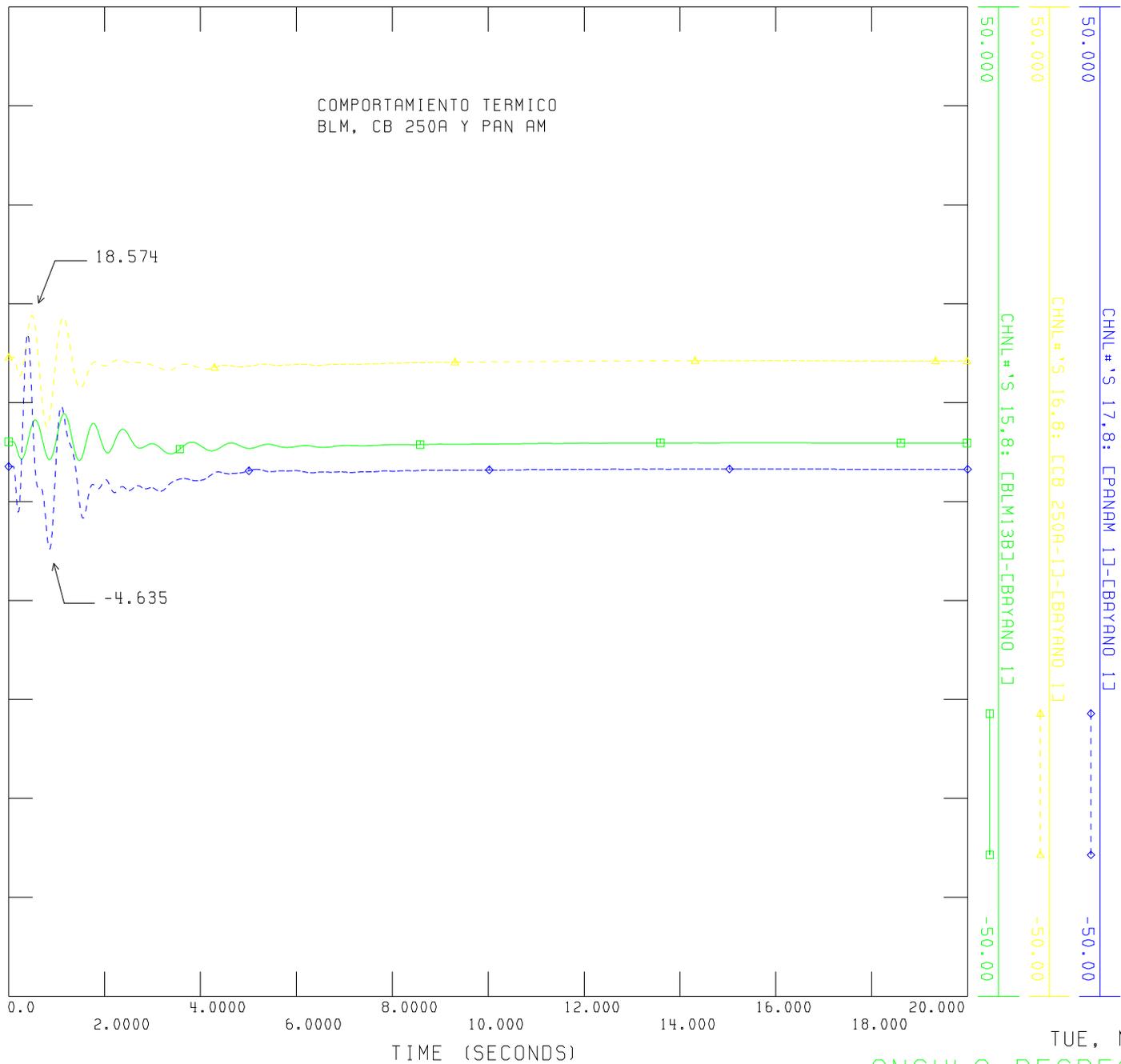


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 CONTS. OUT



TUE, MAY 27 2008 19:25

ANGULO RESPECTO A BAYANO

Handwritten signature

**AÑO 2012 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA – PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

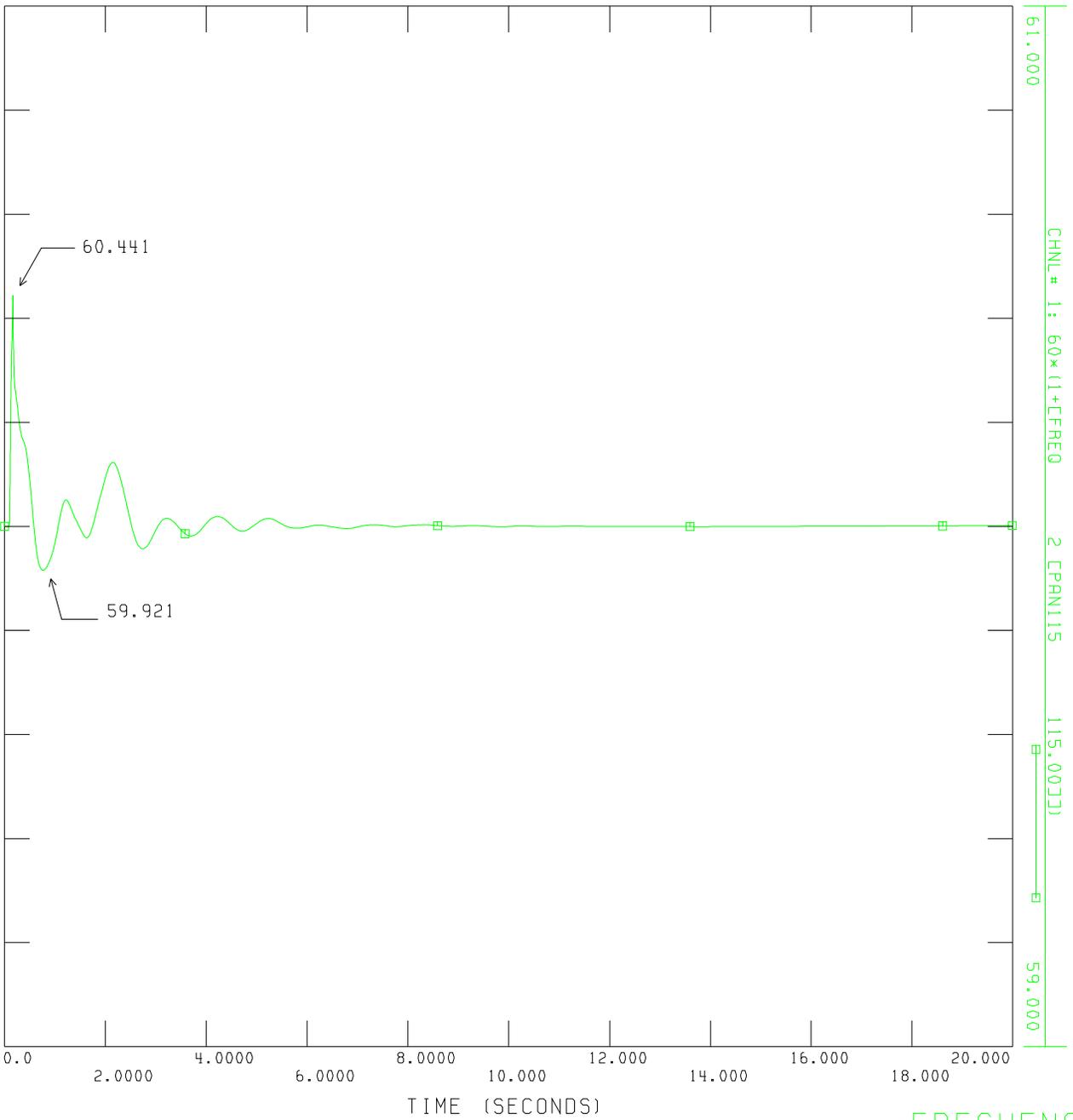


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont6.out



TUE, MAY 27 2008 19:37

FRECUENCIA PANAMA 115 KV

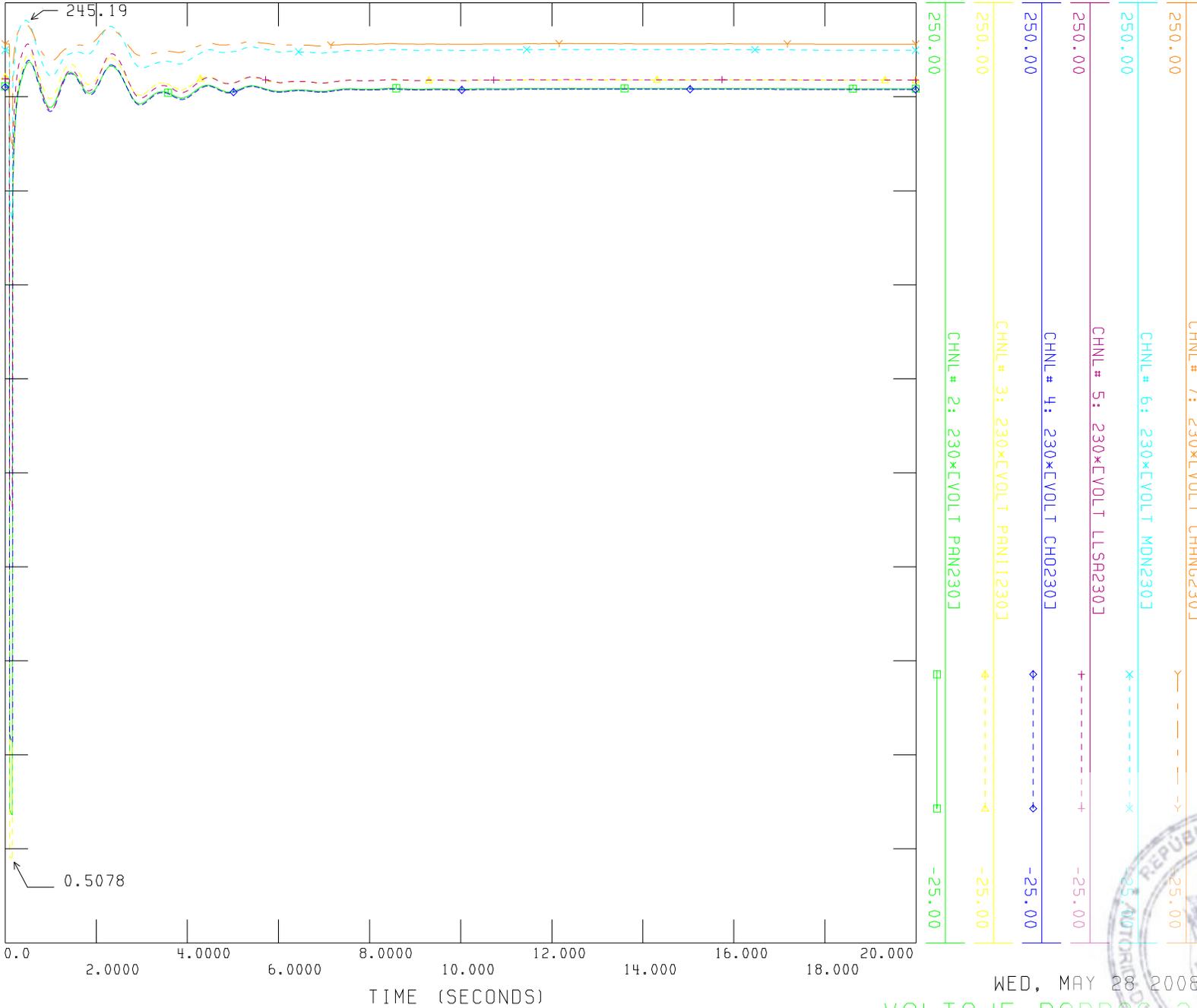


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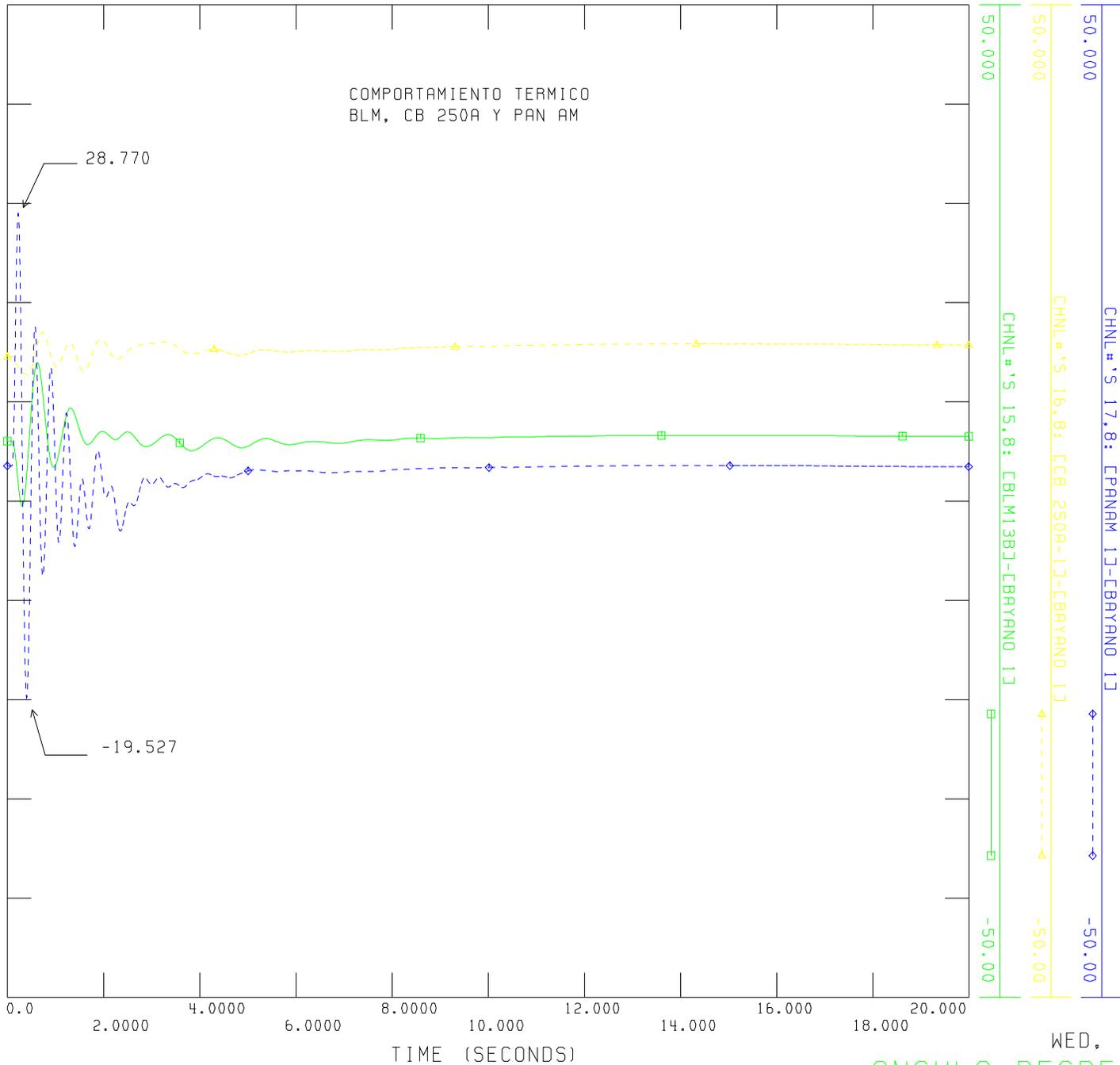
PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
R 0 2012 REGMHTTLR8

FILE: ... \ESTABILIDAD 2012\2012PE_ModMax-Inv-REGMHTTLR8 Cont6.out



WED, MAY 28 2008 8:12
VOLTAJE BARRAS 230 KV

Handwritten signature



Handwritten signature or initials.

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**



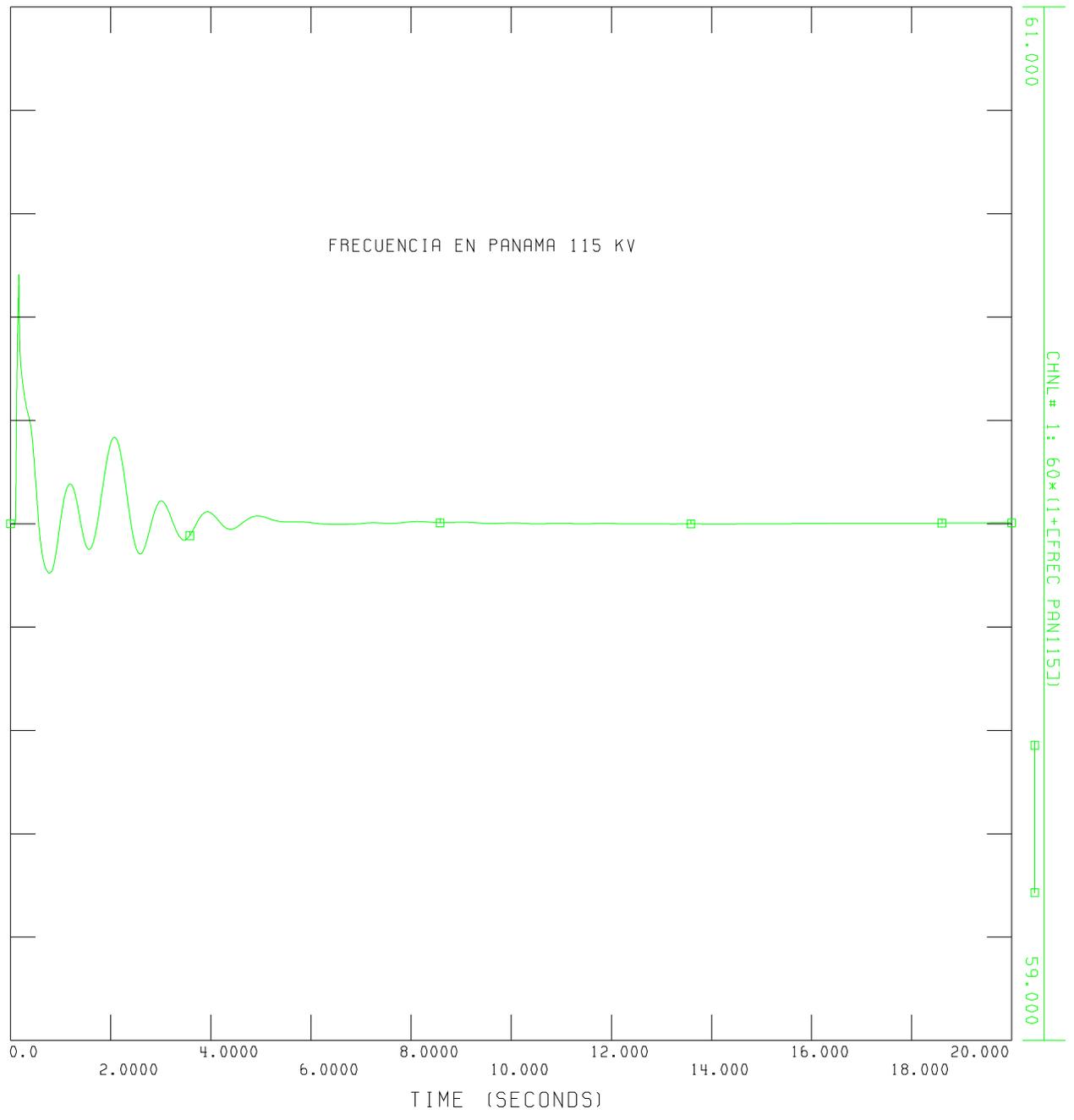


PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n1.out



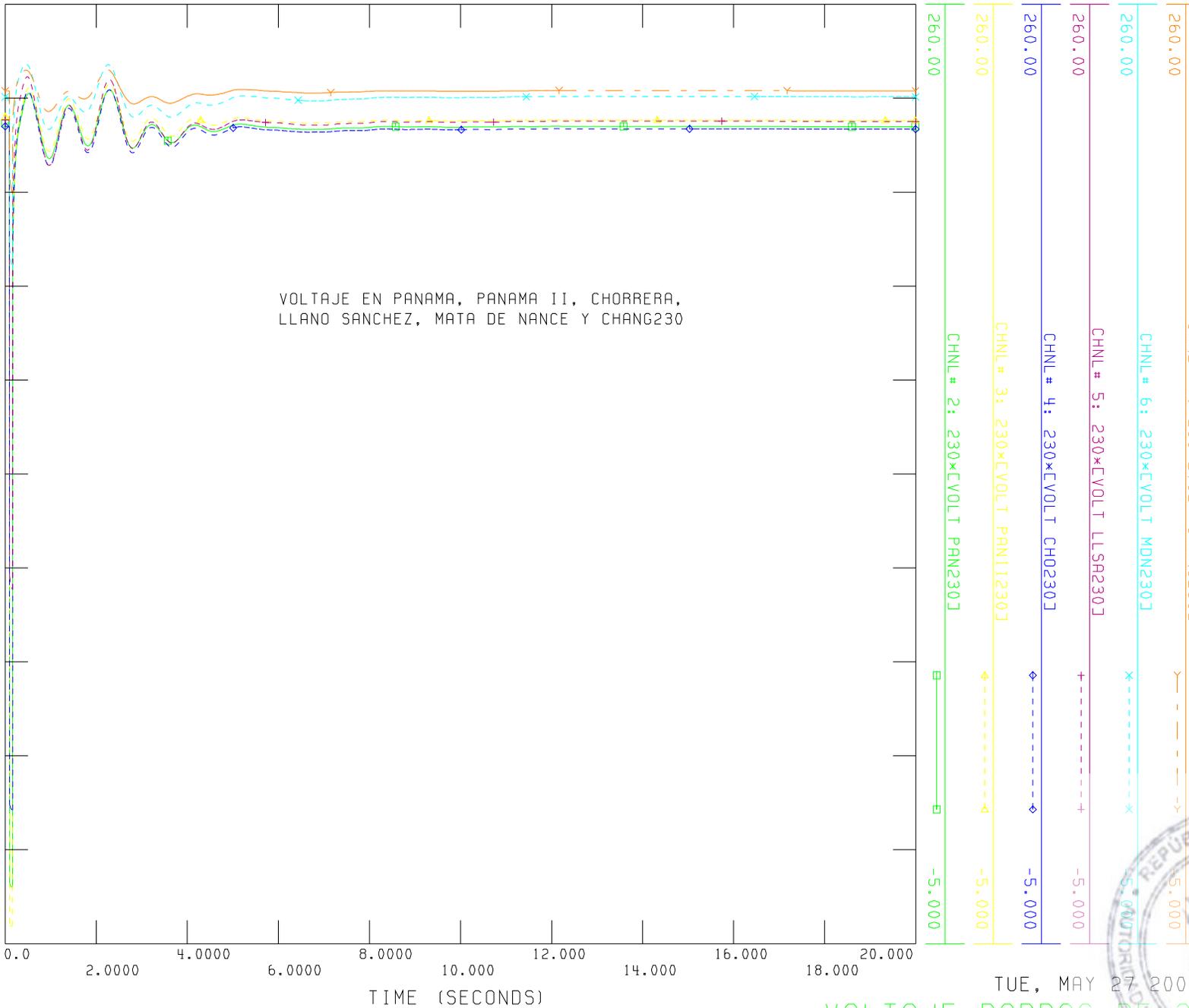
TUE, MAY 27 2008 15:47
FRECUENCIA EN HZ





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n1.out



TUE, MAY 27 2008 16:16

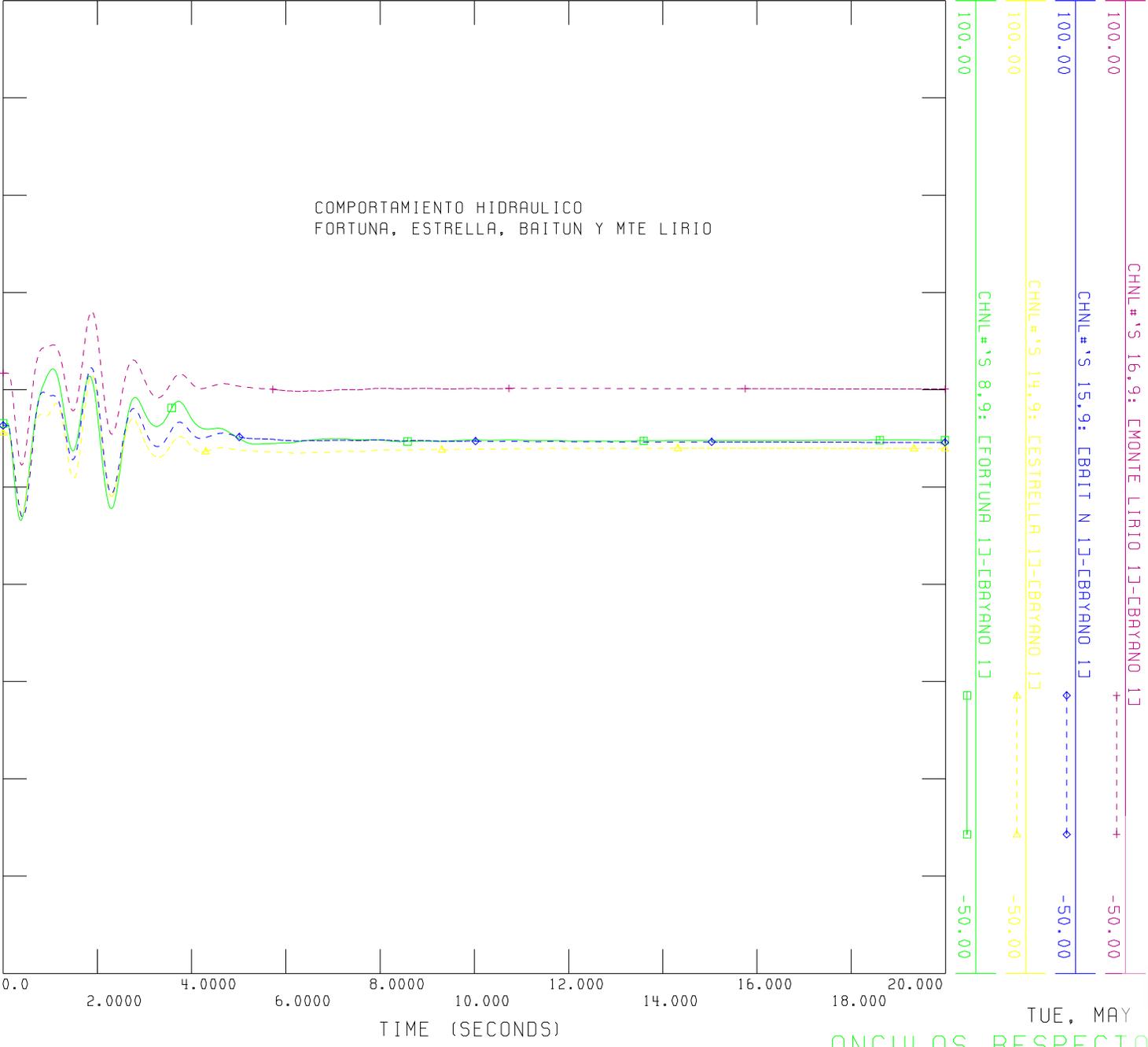
VOLTAJE BARRAS DE 230 KV

Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n1.out



COMPORTAMIENTO HIDRAULICO
FORTUNA, ESTRELLA, BAITUN Y MTE LIRIO

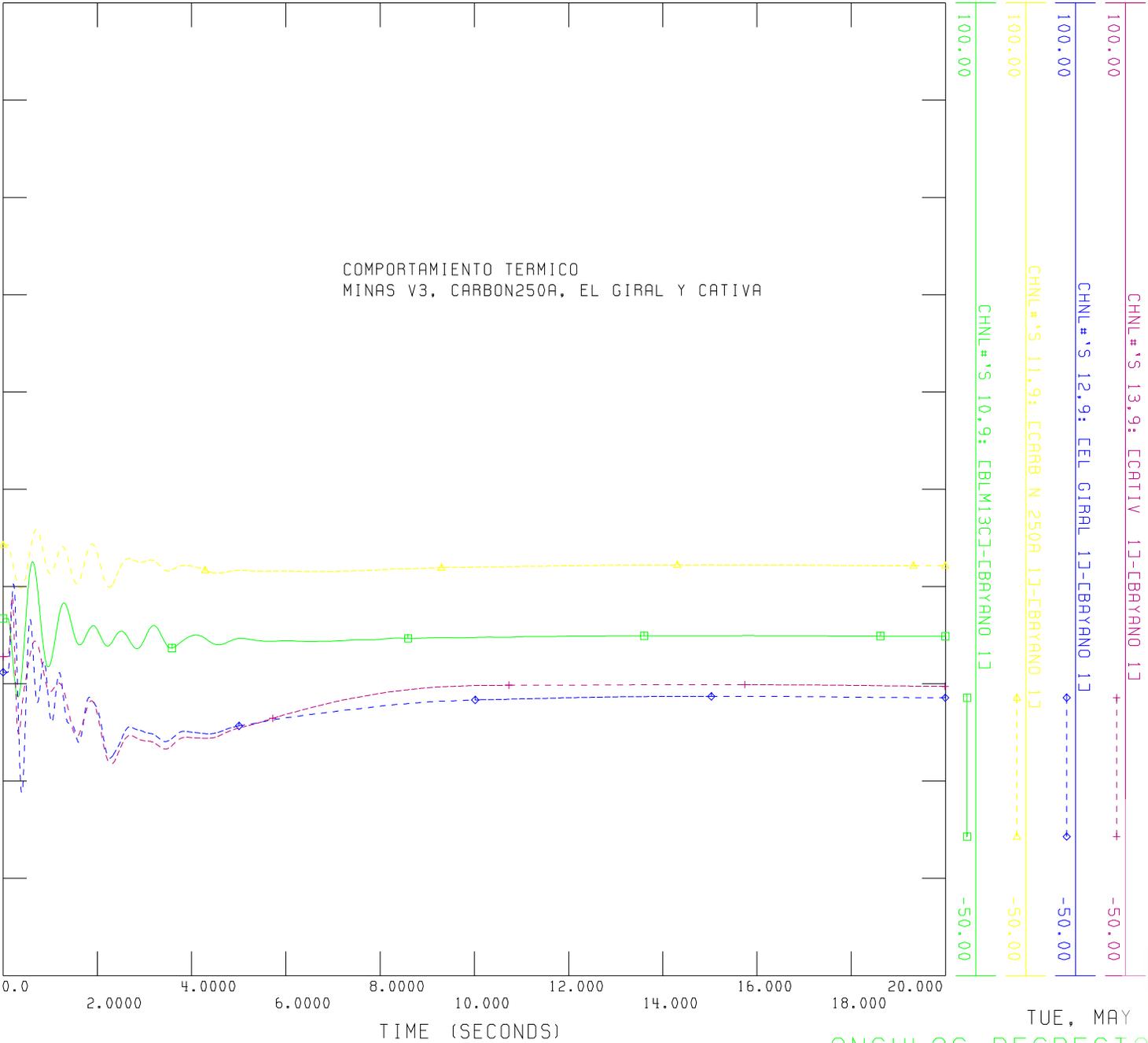
TUE, MAY 27 2008 16:21

ANGULOS RESPECTO A BAYANO



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InvData n1.out



TUE, MAY 27 2008 16:26

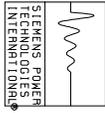
ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**

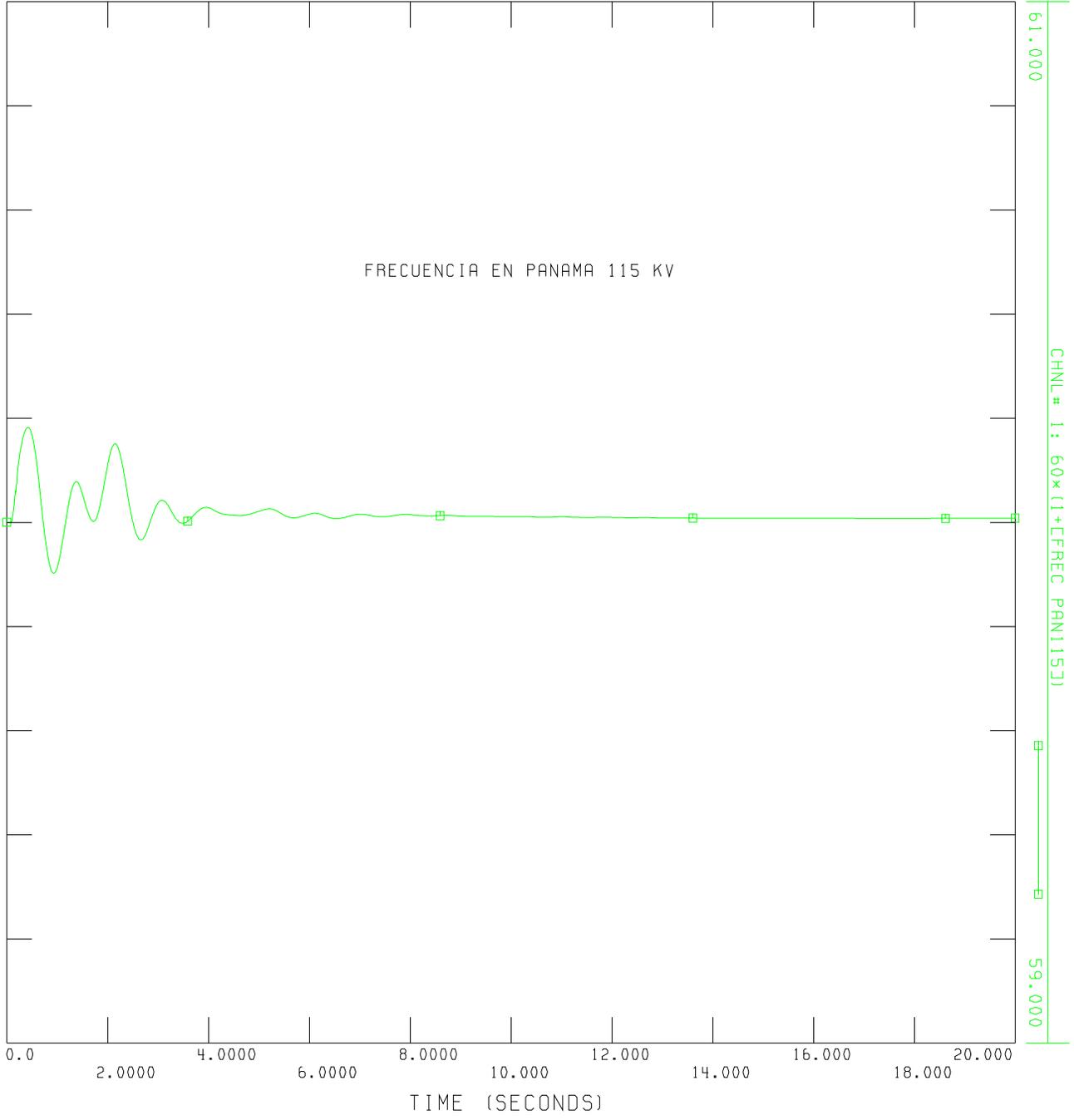


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-Inv1.out

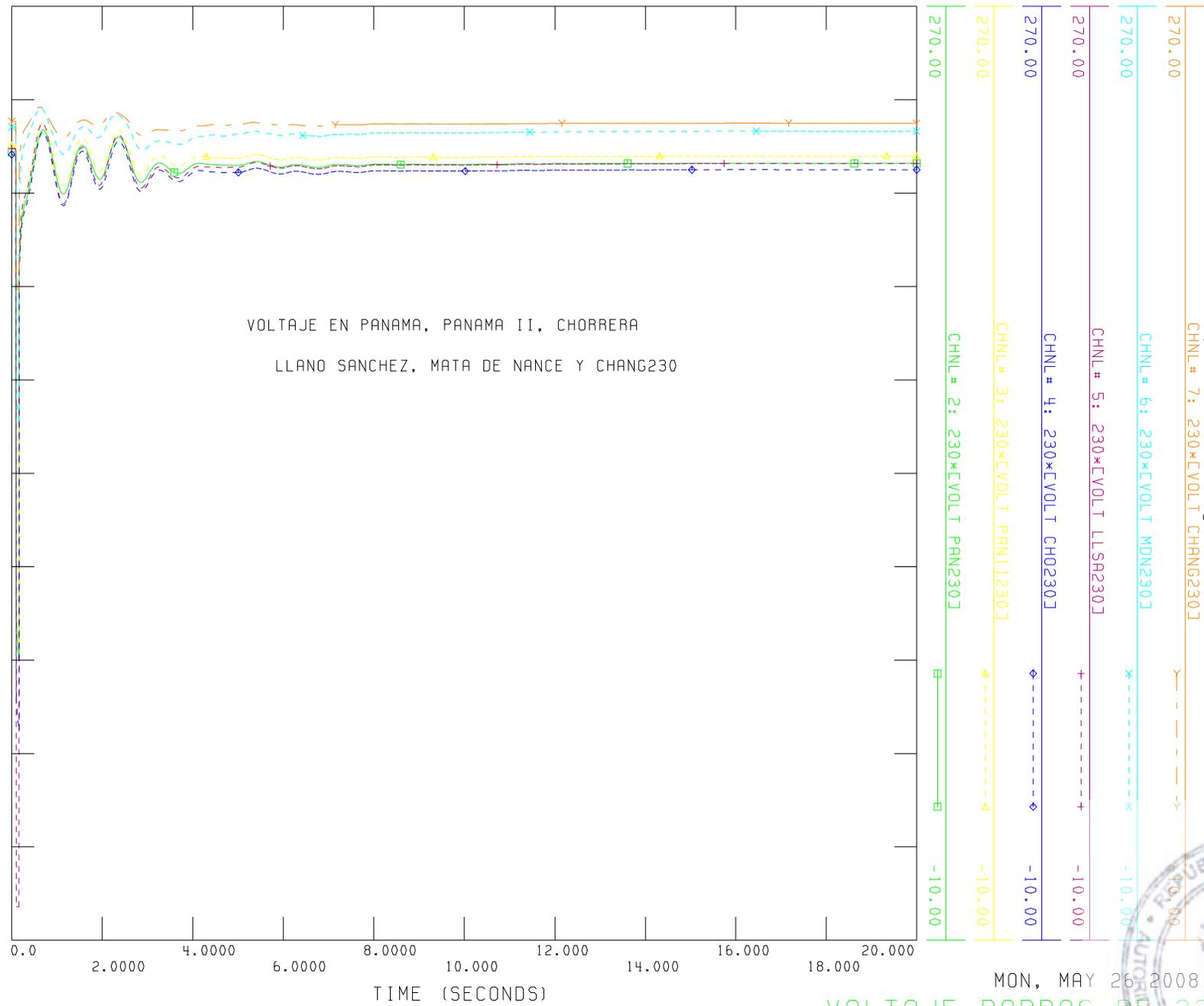


MON, MAY 26 2008 19:08
FRECUENCIA EN HZ



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\DISCO F\PlanExpansi n2008\Dynamics\2016PE_ModMax-Inv\out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

MON, MAY 26 2008 20:02

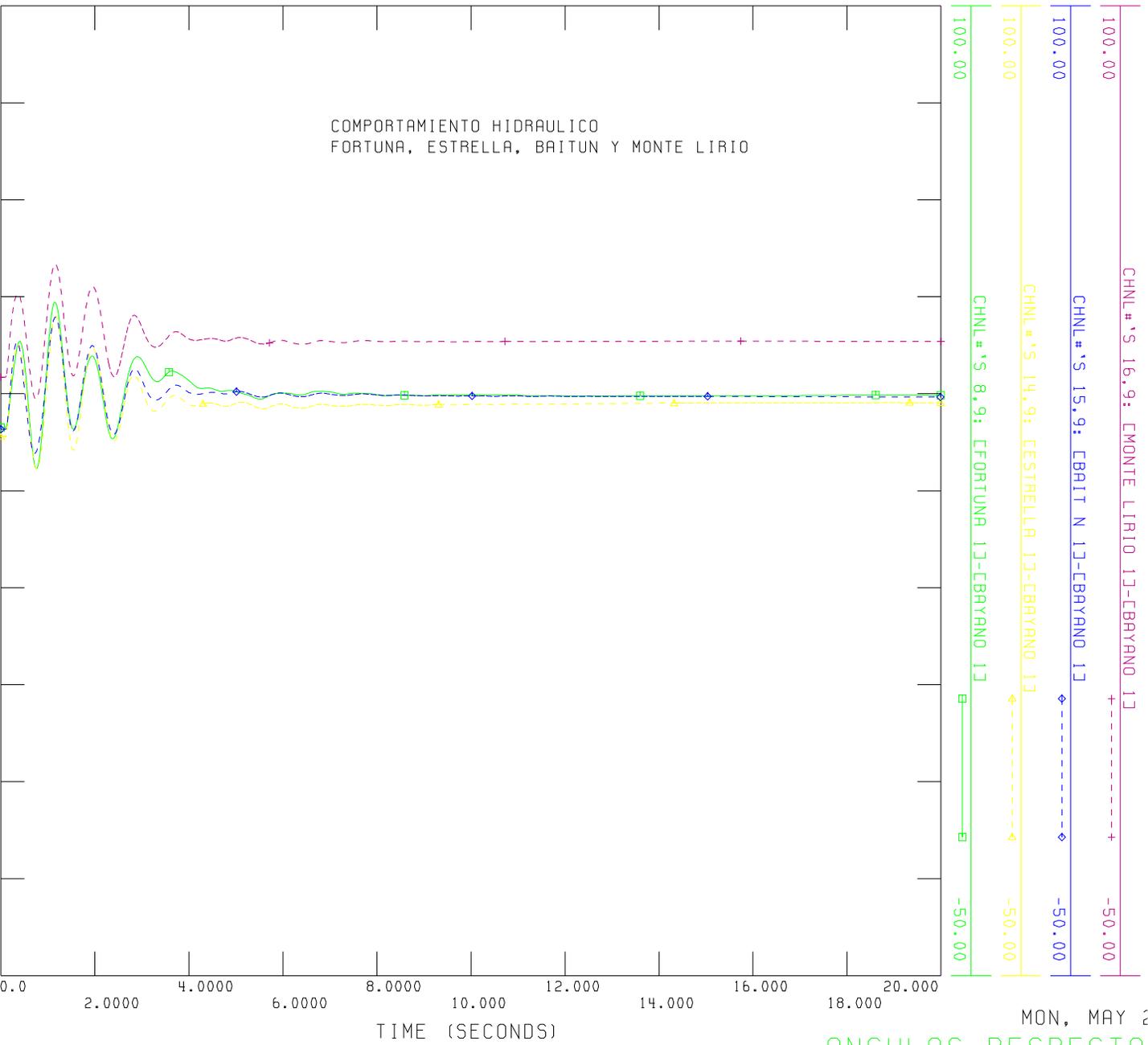
VOLTAJE BARRAS DE 230 KV





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-Inv1.out



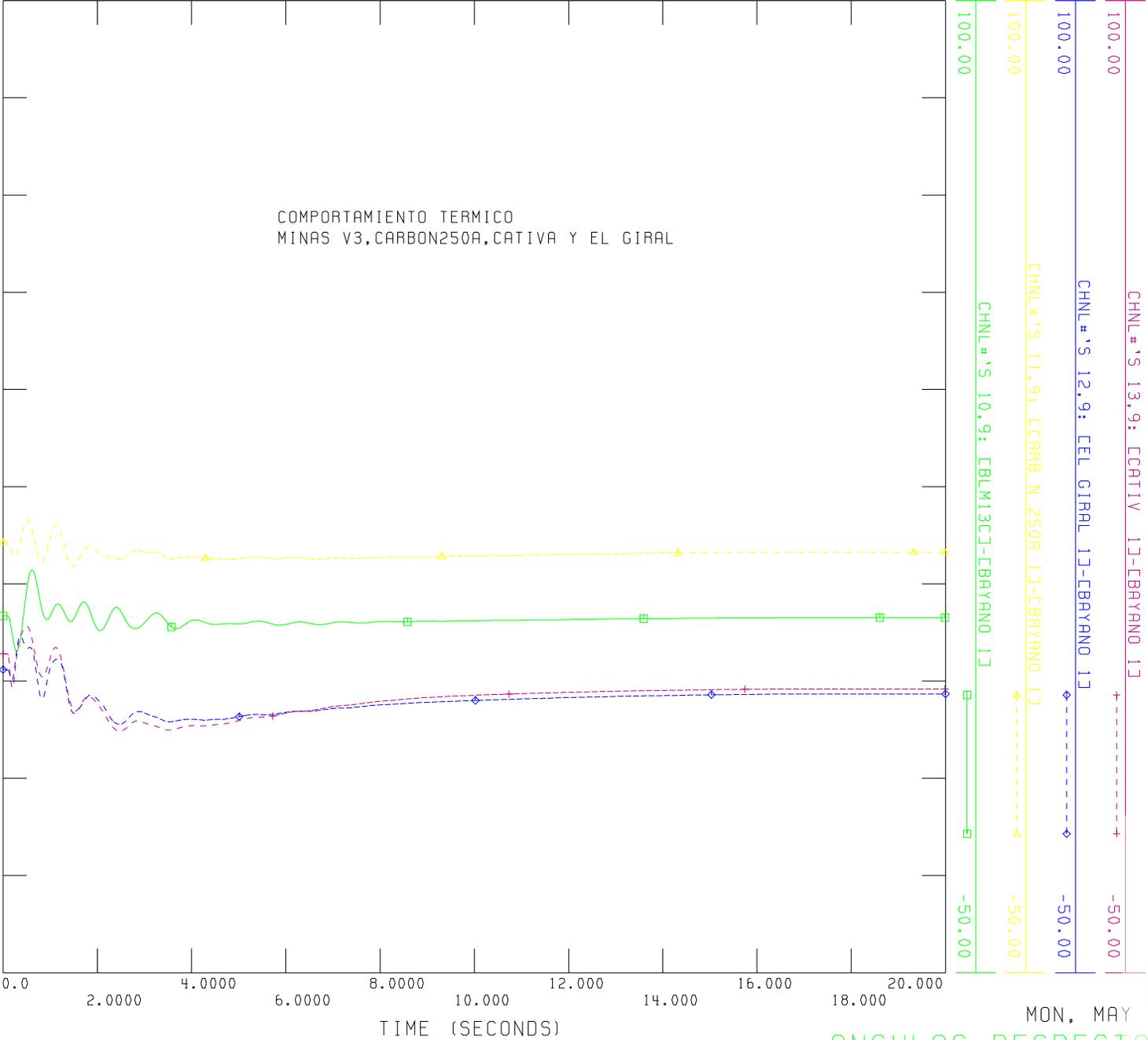
MON, MAY 26 2008 20:10

ANGULOS RESPECTO A BAYANO



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-Inv1.out



MON, MAY 26 2008 20:18

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**

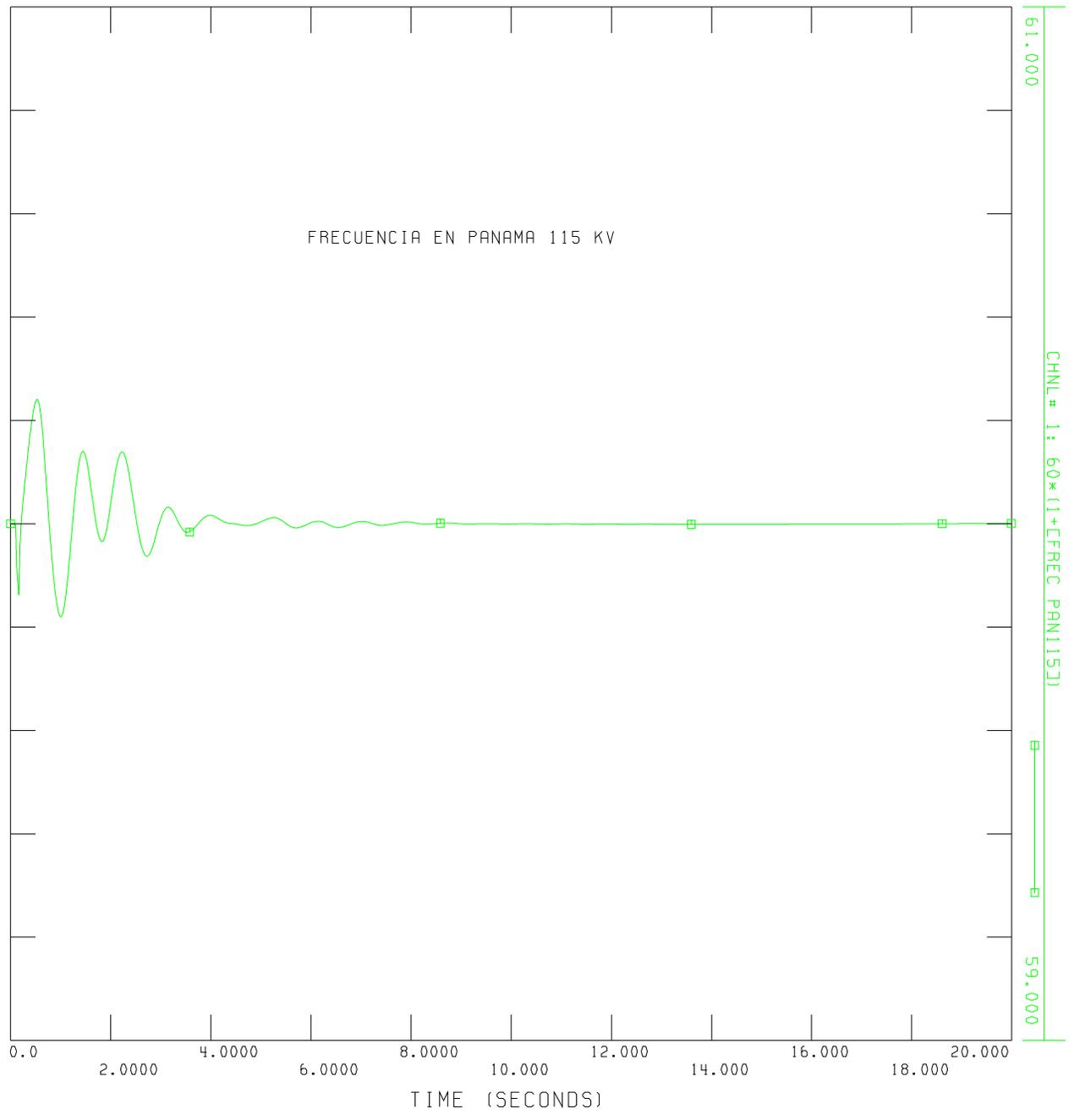


de



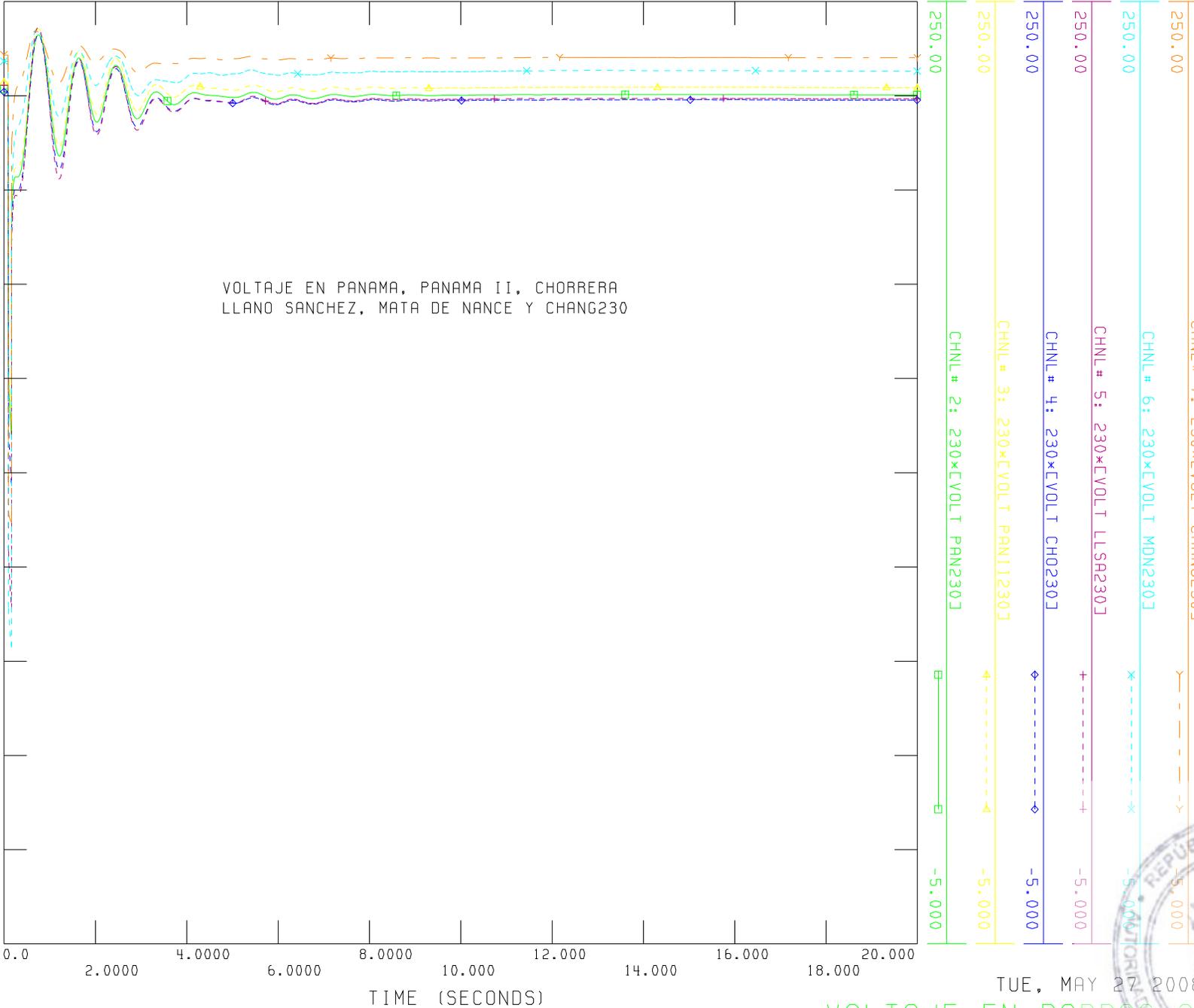
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MRX INV
 A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n2.out



TUE, MAY 27 2008 9:15
 FRECUENCIA EN HZ





VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



TUE, MAY 27 2008 9:19

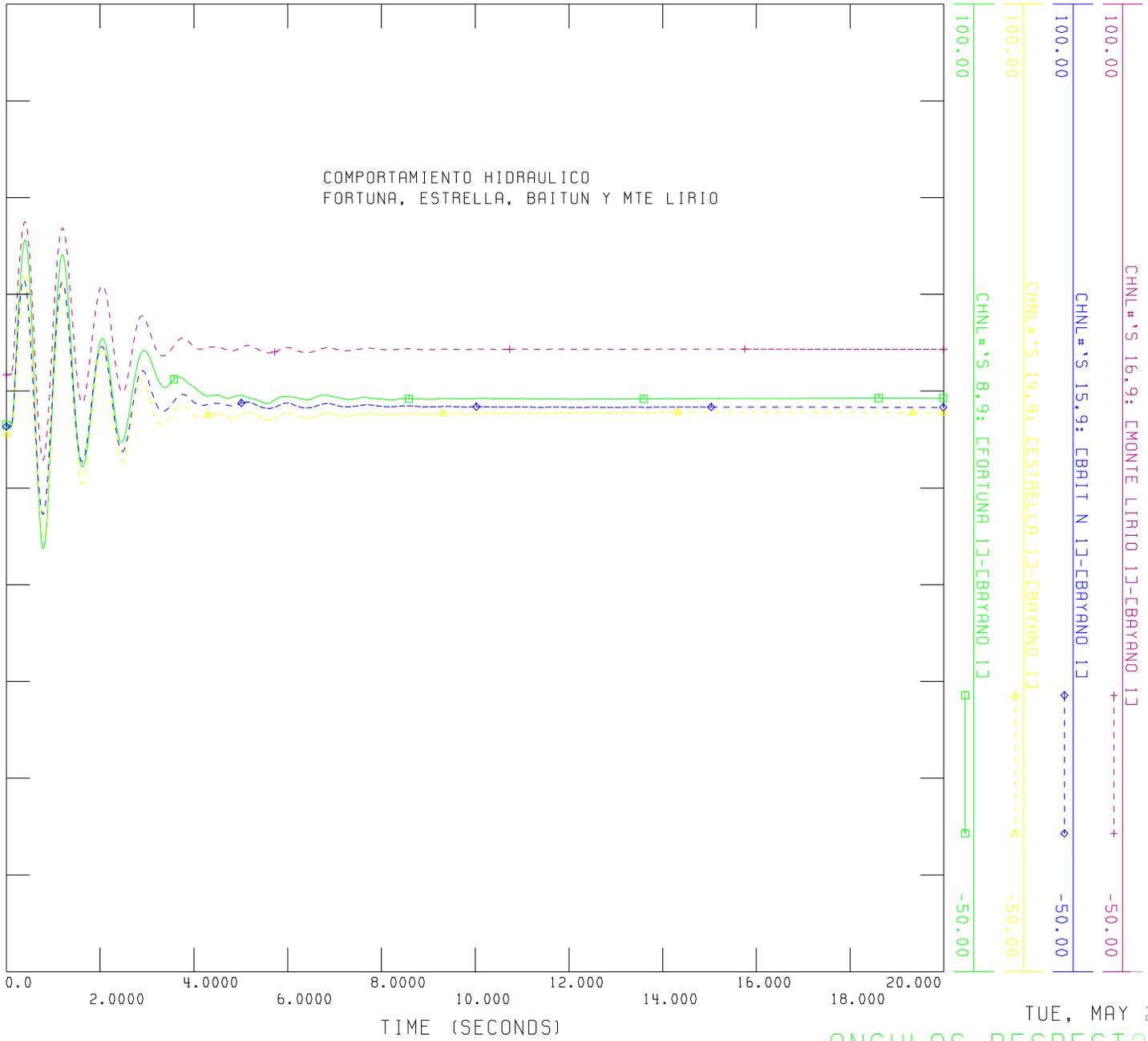
VOLTAJE EN BARRAS 230 KV

Handwritten signature or initials.



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\D1sco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n2.out



TUE, MAY 27 2008 9:30

ANGULOS RESPECTO A BAYANO



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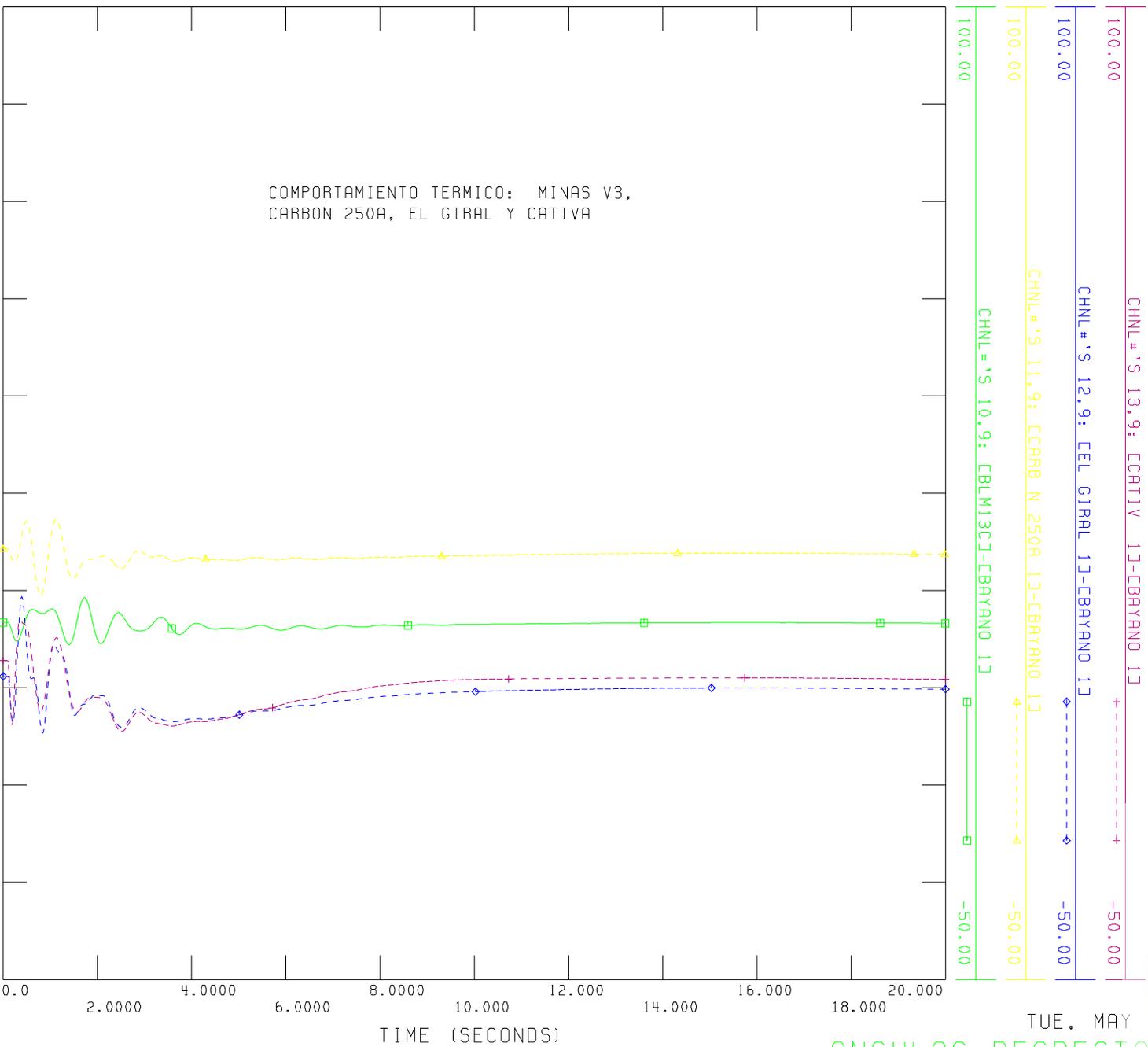


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InvDcarb n2.out



COMPORTAMIENTO TERMICO: MINAS V3.
CARBON 250A, EL GIRAL Y CATIVA



TUE, MAY 27 2008 9:34

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**



de

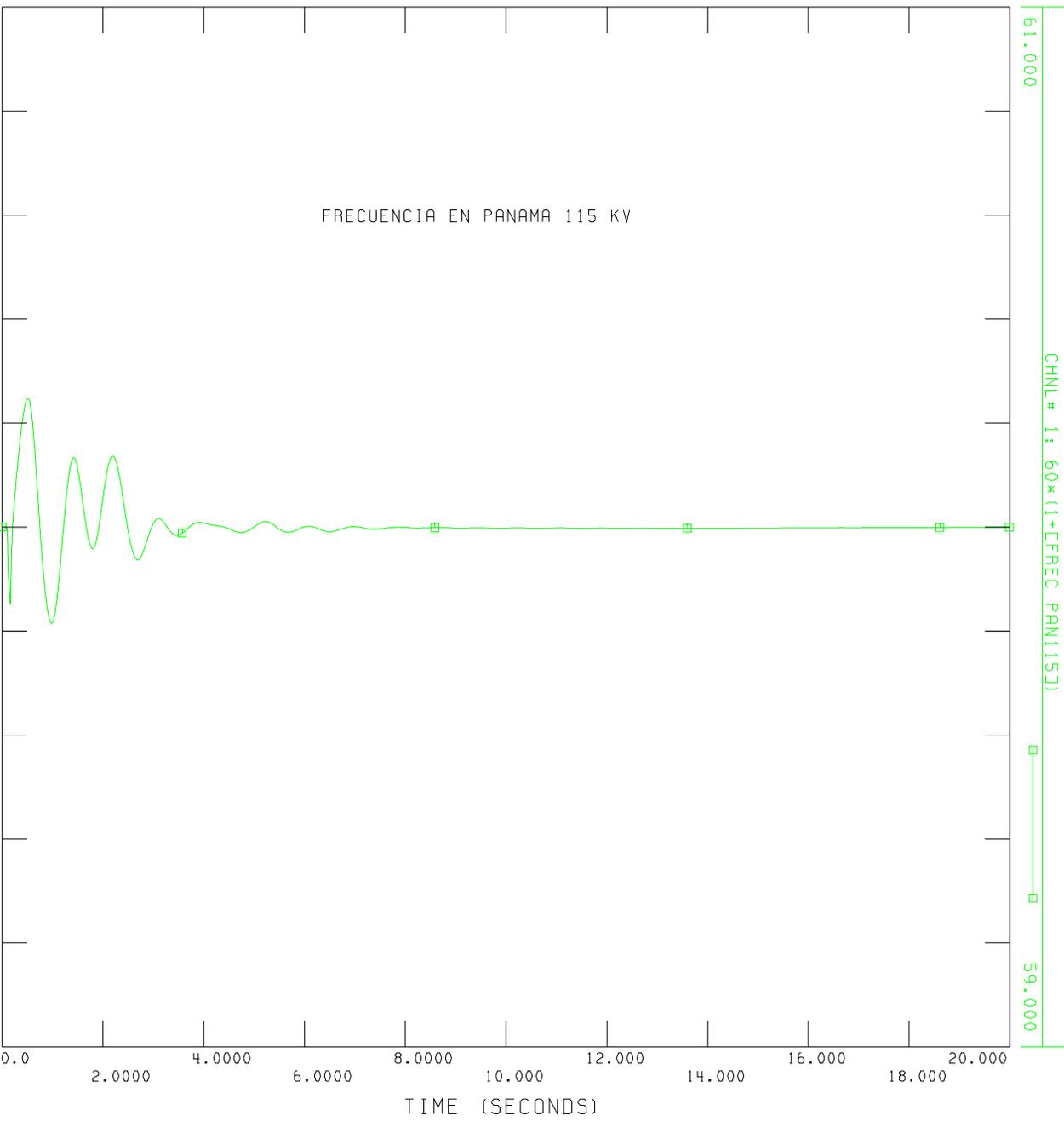


PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
 A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n14.out



TUE, MAY 27 2008 14:43
 FRECUENCIA EN HZ

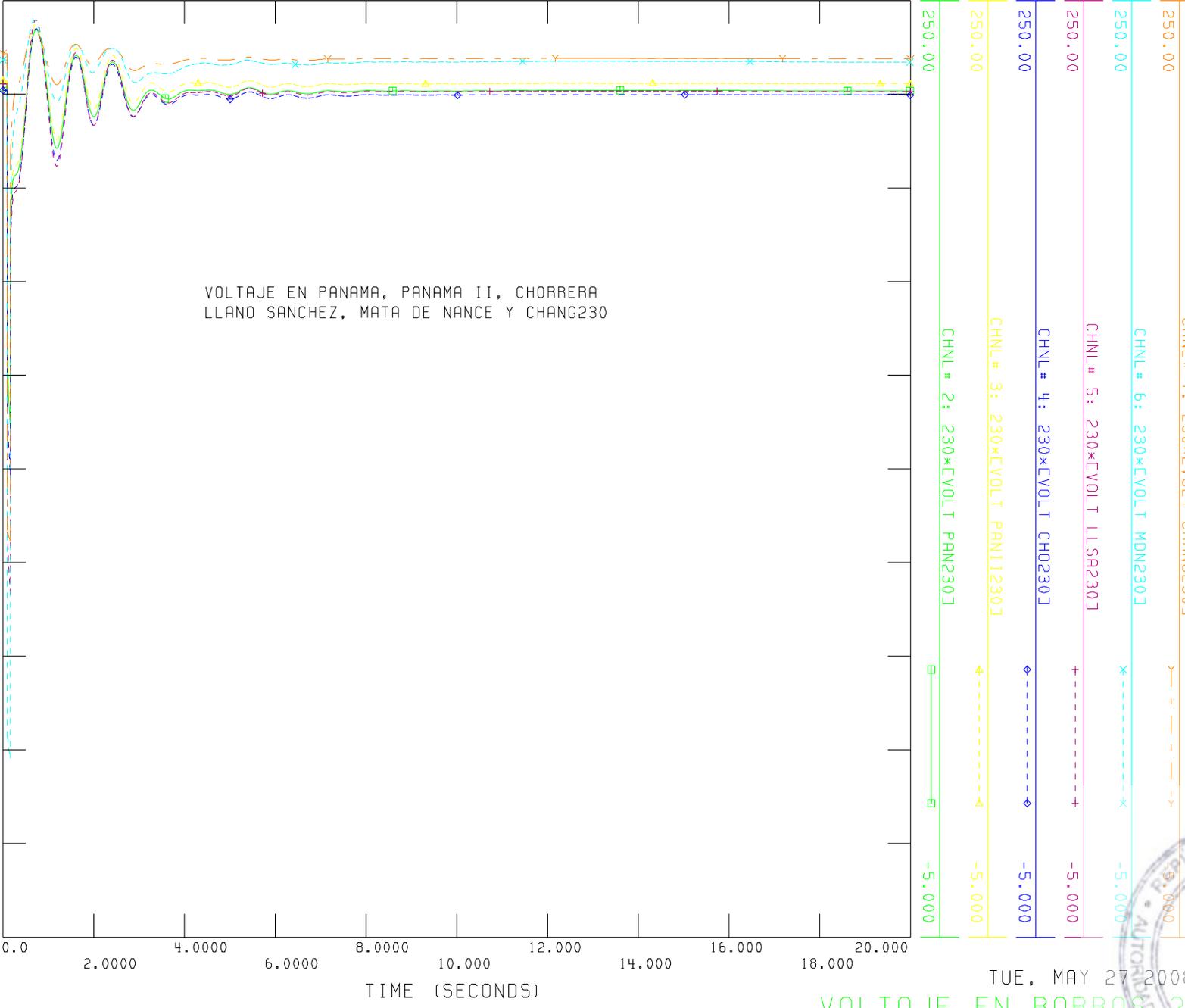


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n4.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



TUE, MAY 27 2008 14:47

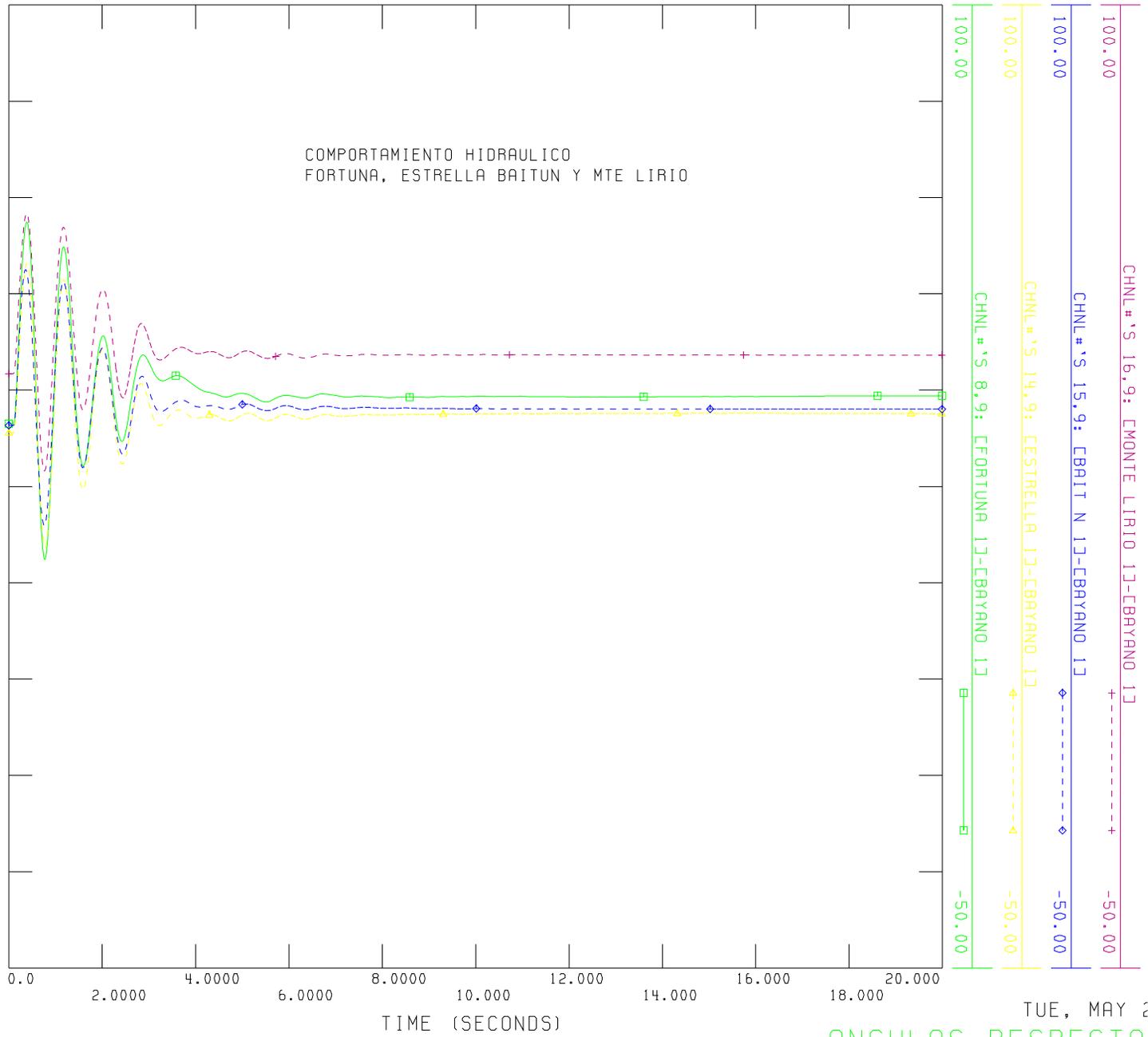
VOLTAJE EN BARRAS 230 KV

Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InvCarb.mh.out



TUE, MAY 27 2008 14:50

ANGULOS RESPECTO A BAYANO

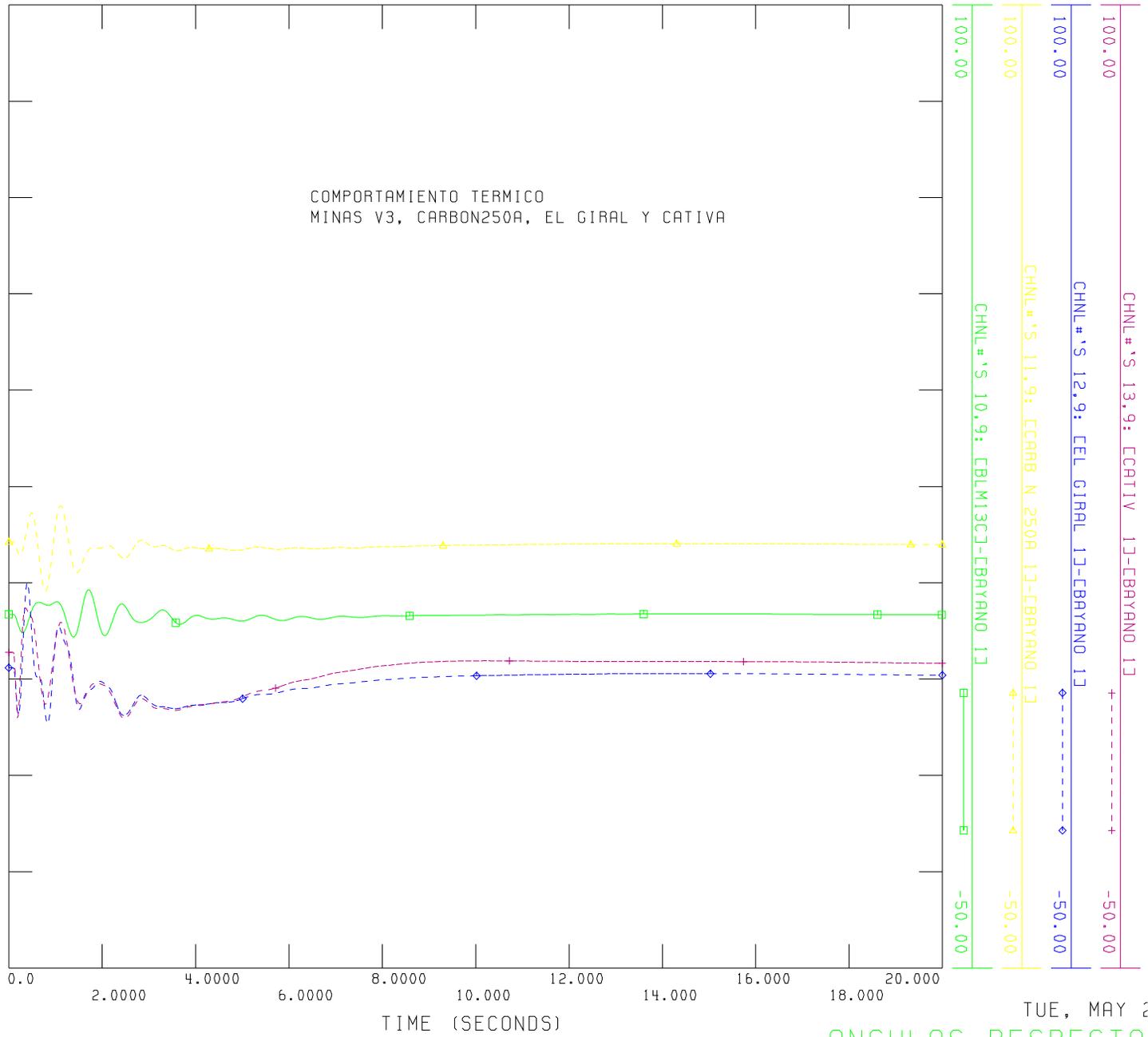
Handwritten signature



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InvCarb.mt.out

COMPORTAMIENTO TERMICO
MINAS V3, CARBON250A, EL GIRAL Y CATIVA



TUE, MAY 27 2008 14:53

ANGULOS RESPECTO A BAYANO



AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8

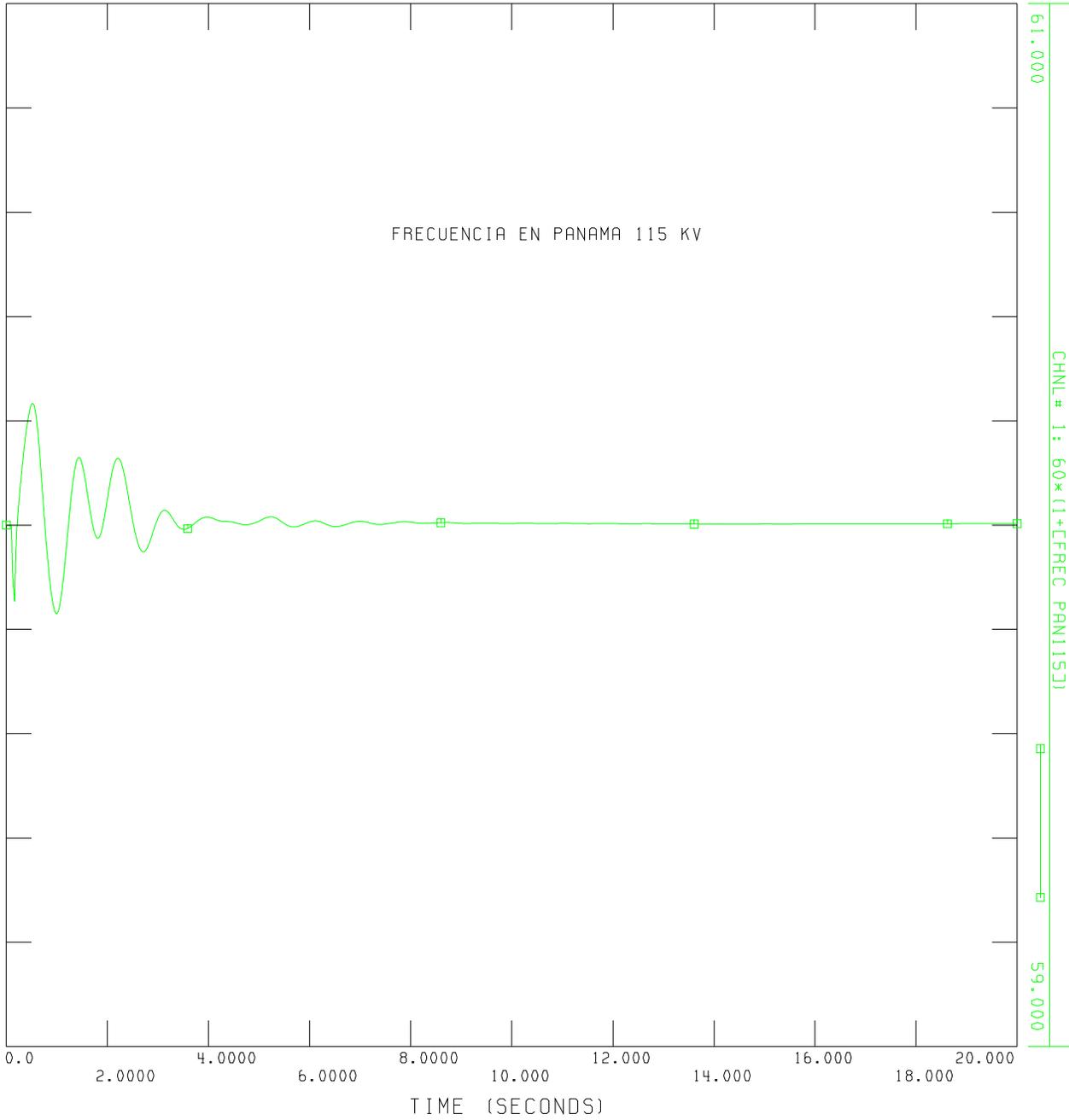


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n3.out



TUE, MAY 27 2008 9:45
FRECUENCIA EN HZ

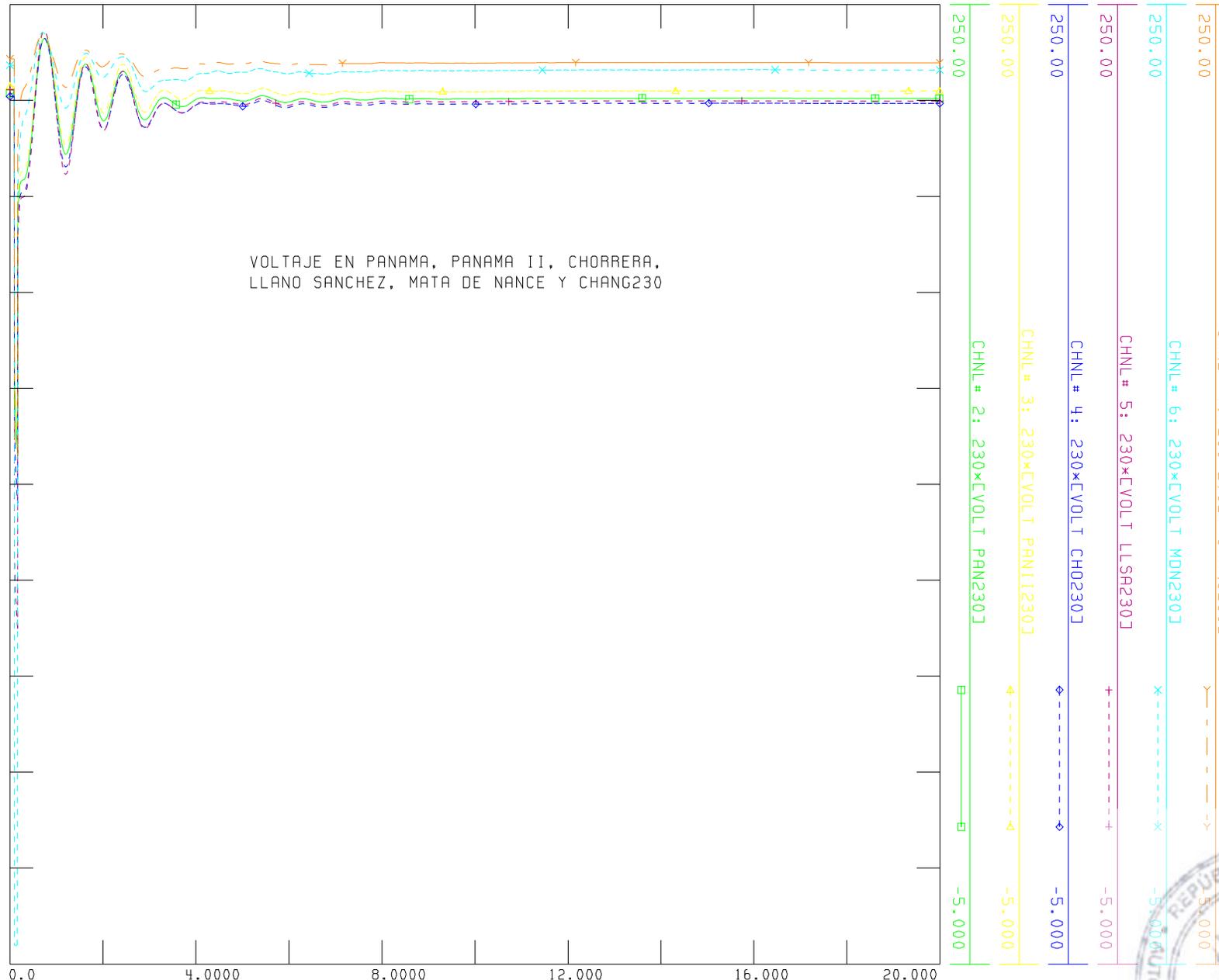


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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016

FILE: C:\Disco F\Planeexpansi n2008\Dynamics\2016PE_ModMax-InvCarb n3.out



TUE, MAY 27 2008 9:48

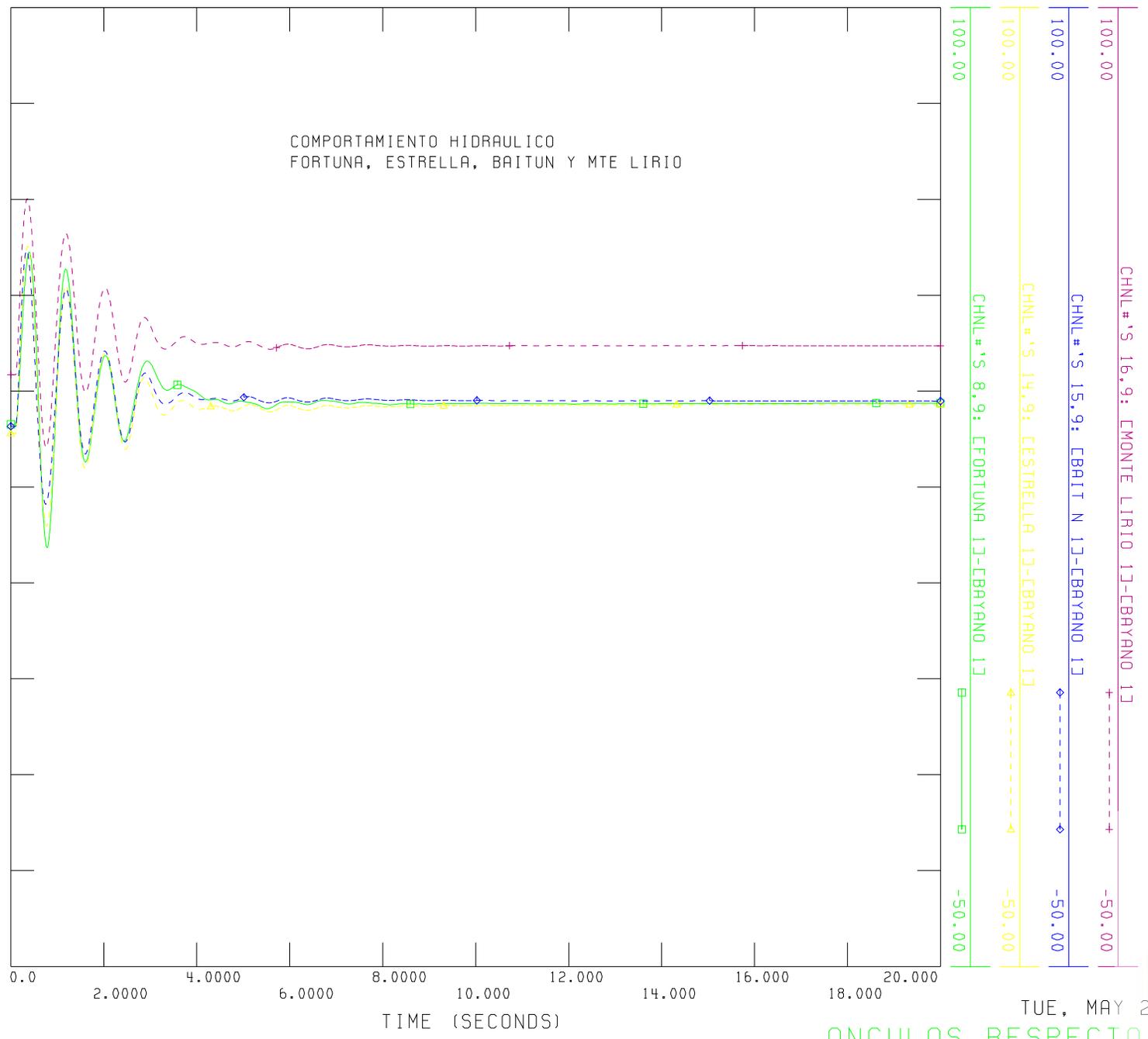
VOLTAJE EN BARRAS 230 KV

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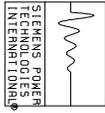
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n3.out



TUE, MAY 27 2008 9:59

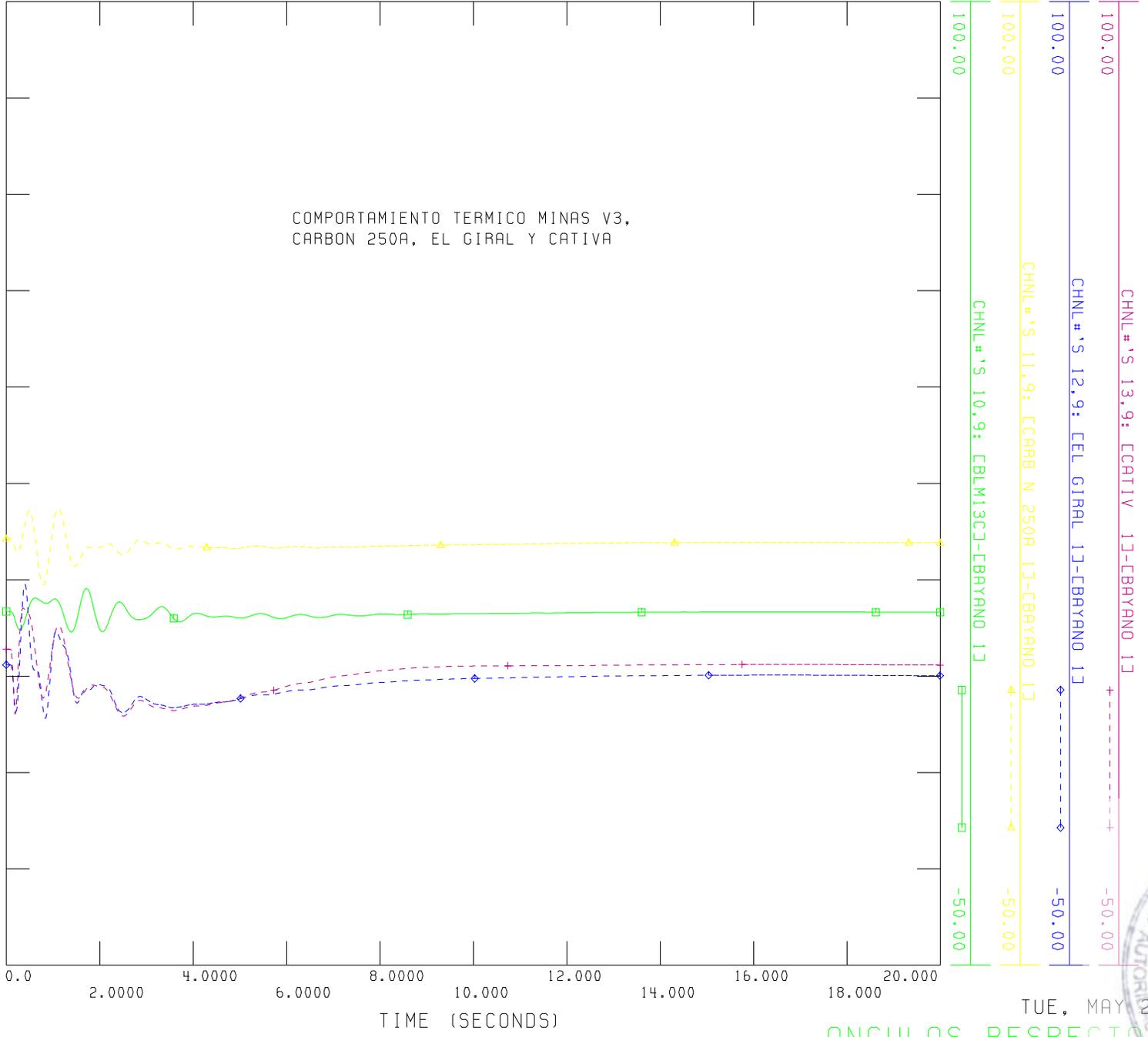
ANGULOS RESPECTO A BAYANO



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n3.OUT

COMPORTAMIENTO TERMICO MINAS V3,
CARBON 250A, EL GIRAL Y CATIVA



TUE, MAY 27 2008 10:02

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**



de



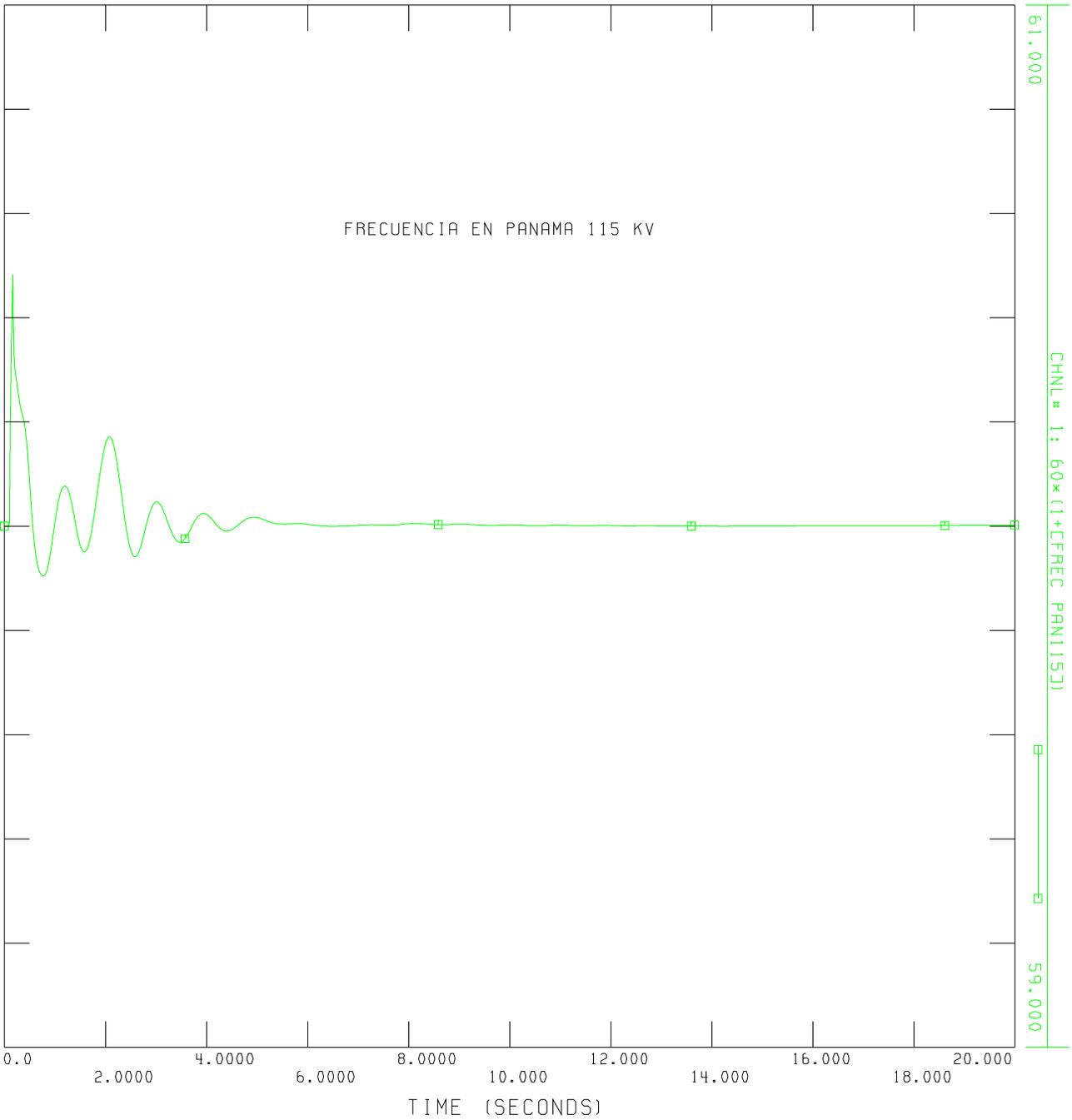
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n6.out



TUE, MAY 27 2008 16:51

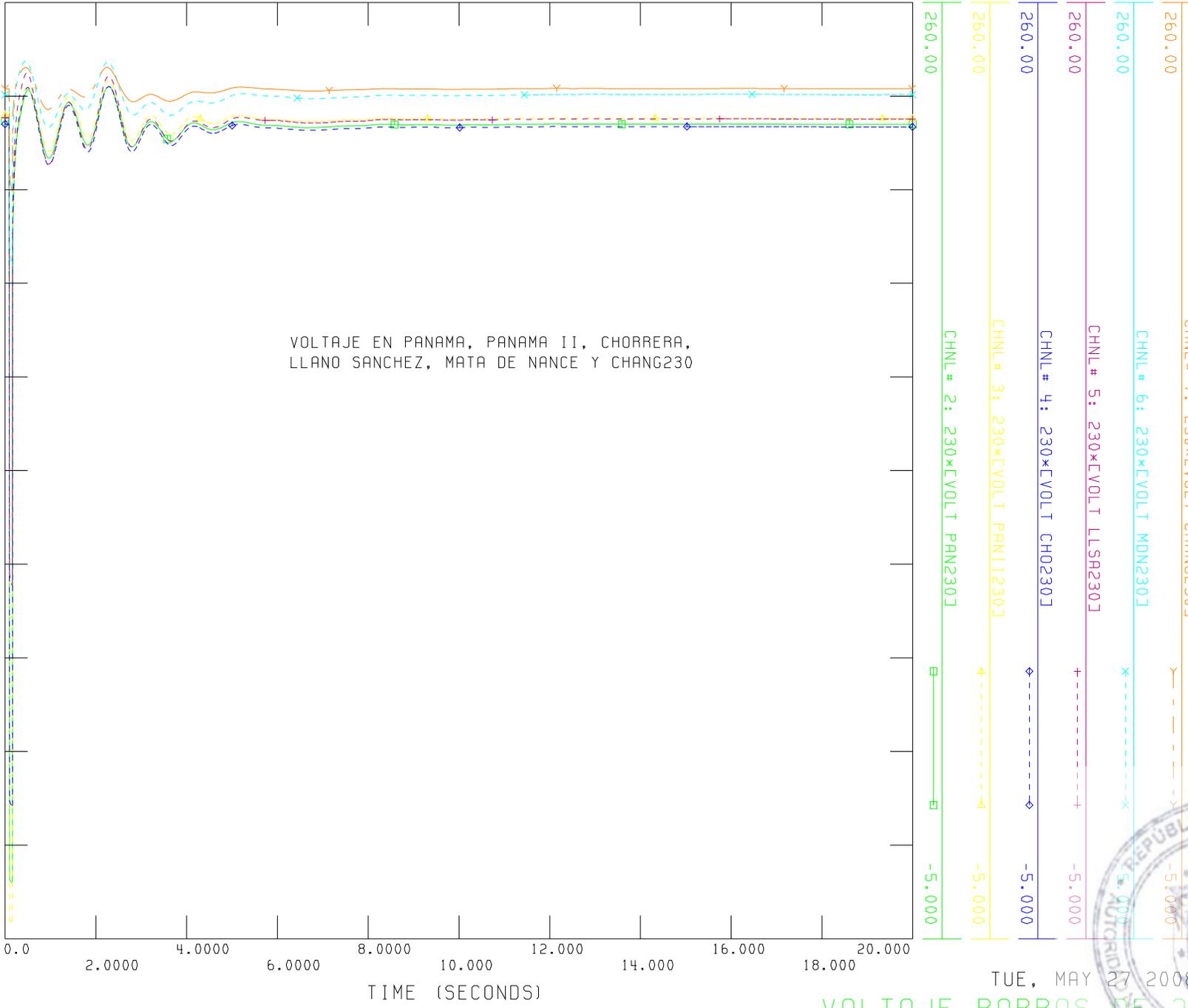
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2016

FILE: C:\disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb nb.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
 LLANO SANCHEZ, MATA DE NANCE Y CHANG230



TUE, MAY 27 2008 16:57

VOLTAJE BARRAS DE 230 KV

Handwritten signature



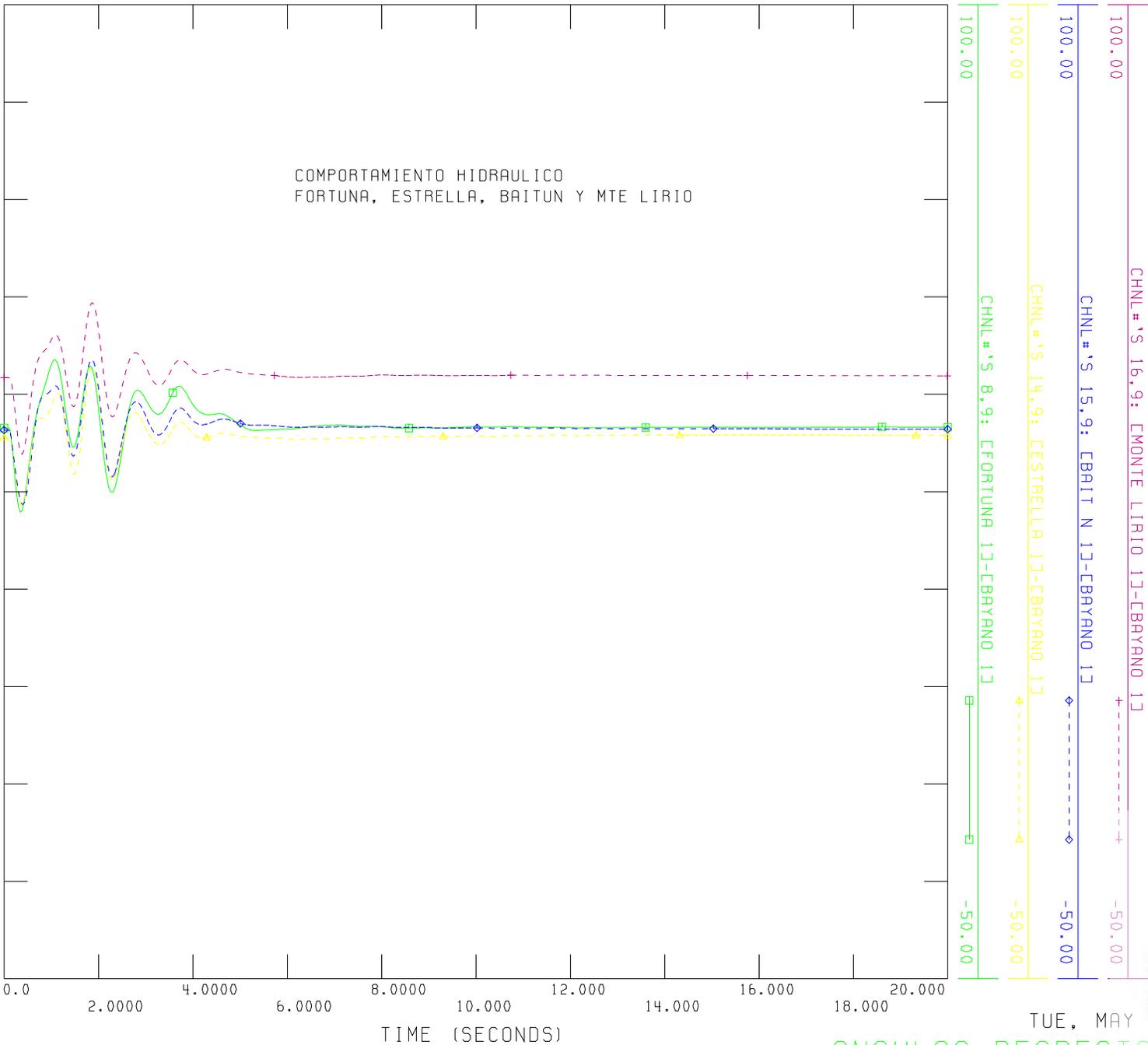
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016

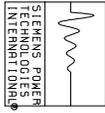
FILE: C:\Disco F\PlaneExpansi n2008\Dynamiccs\2016PE_ModMax-InvCarb no.out



TUE, MAY 27 2008 17:00

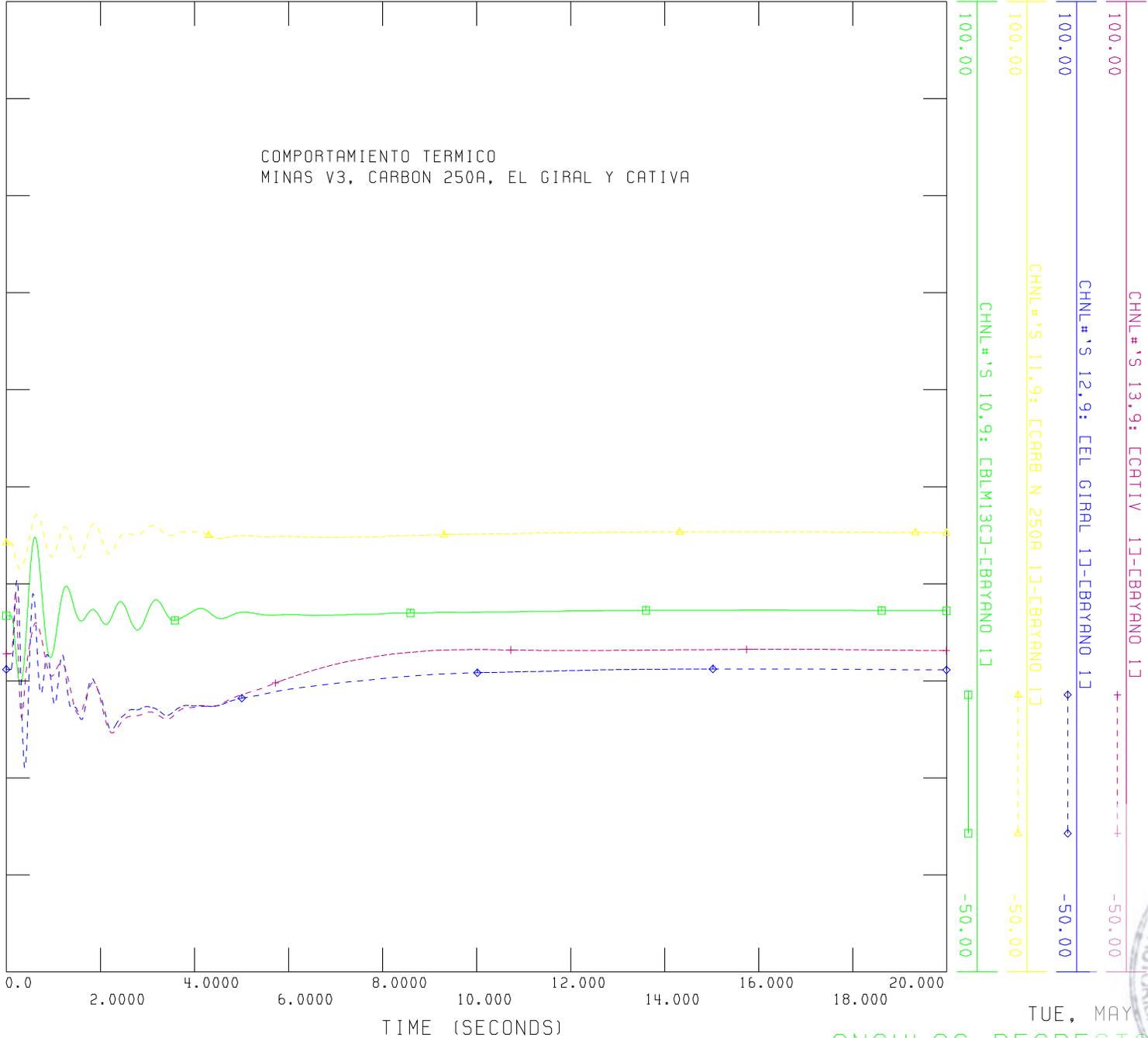
ANGULOS RESPECTO A BAYANO





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCarb n6.out



TUE, MAY 27 2008 17:05

ANGULOS RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

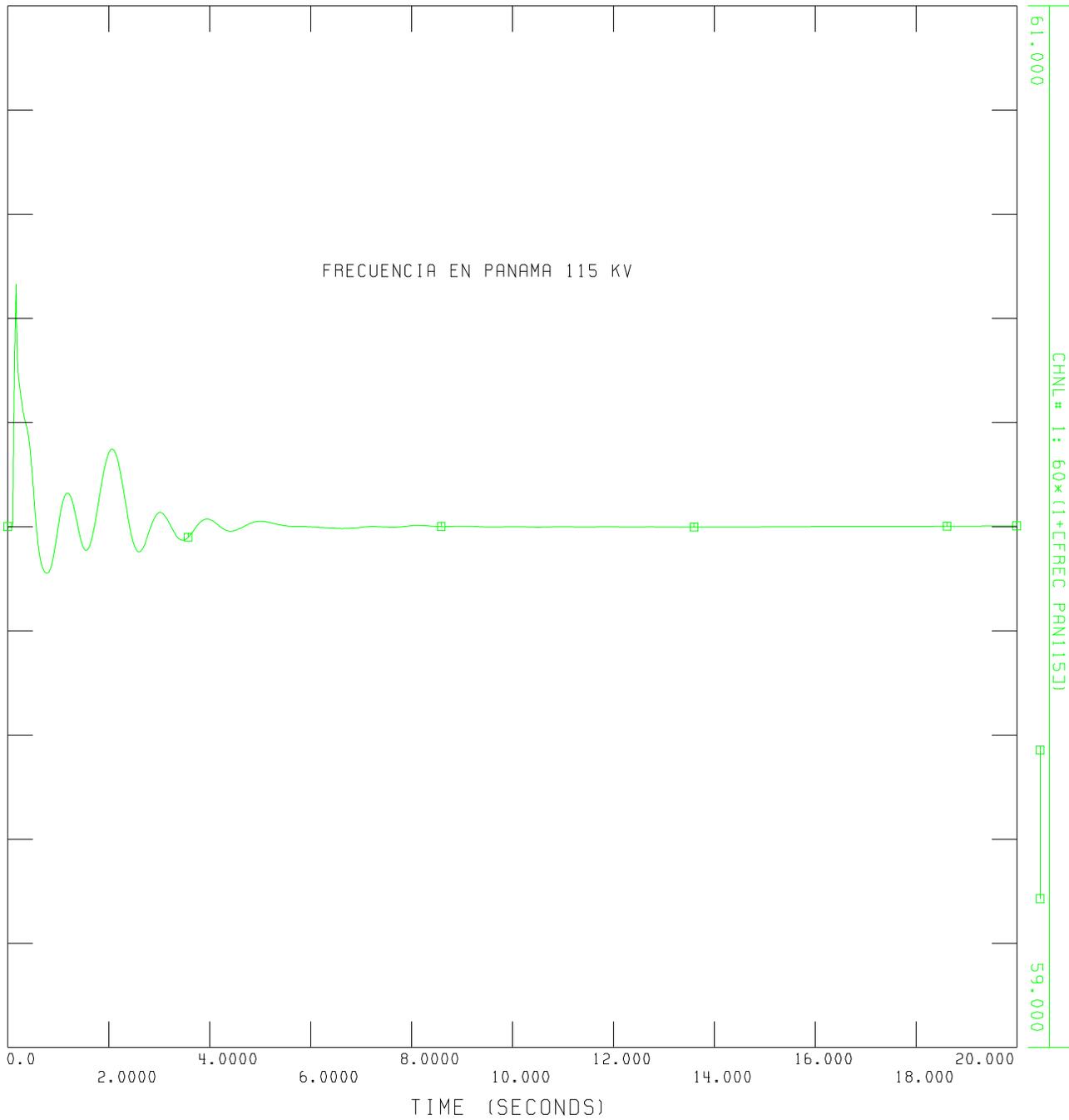


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

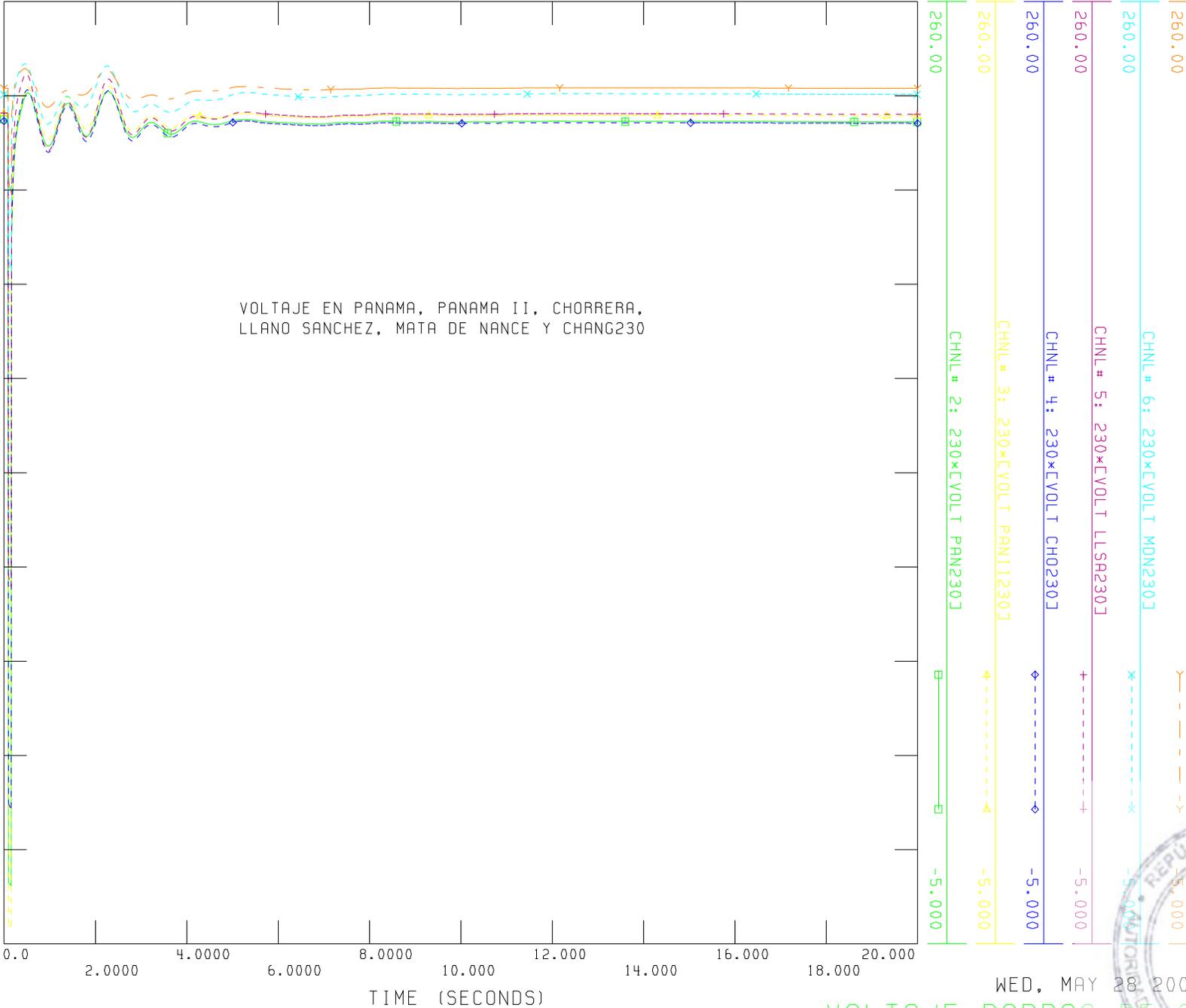
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WED, MAY 28 2008 20:22
FRECUENCIA EN HZ



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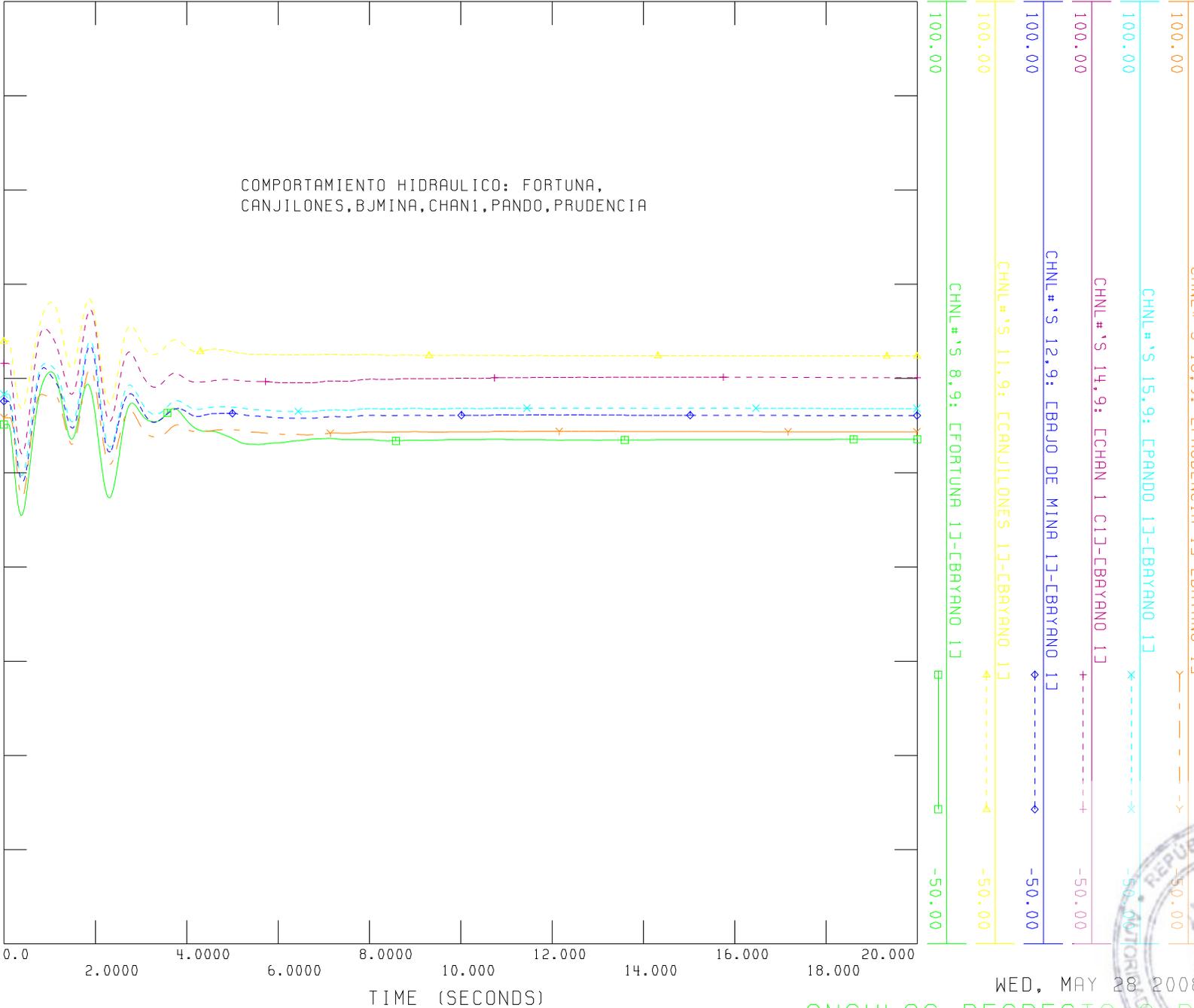
WED, MAY 28 2008 20:25

VOLTAGE BARRAS DE 230 KV



Handwritten signature or initials.

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InyBas1.out



WED, MAY 28 2008 20:52

ANGULOS RESPECTO A BAYANO



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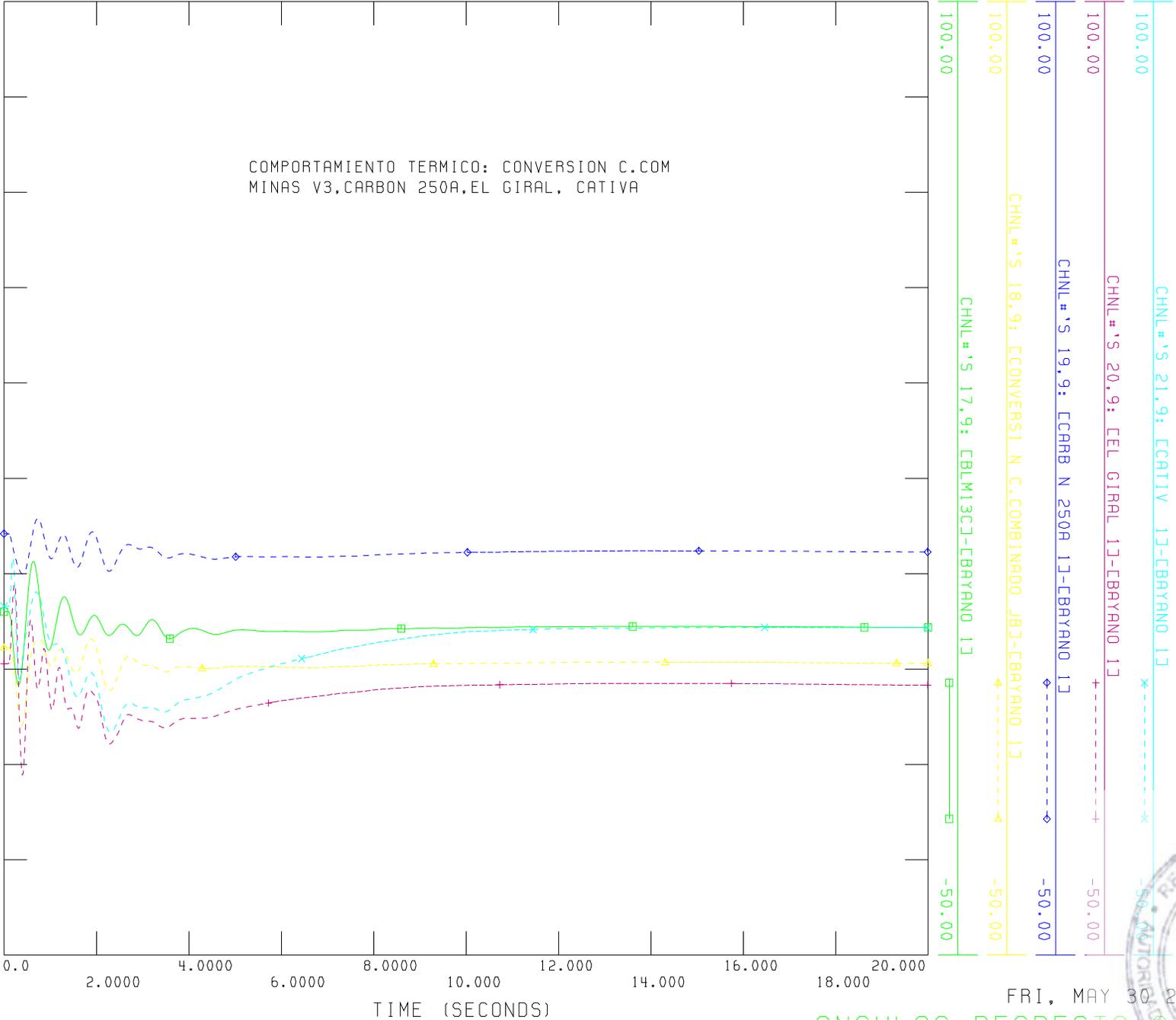
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

FILE: C:\Disco F\...\Dynamics\2016\2016PE_ModMax-InvGas1.gout



FRI, MAY 30 2008 11:16

ANGULOS RESPECTO A BAYANO



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

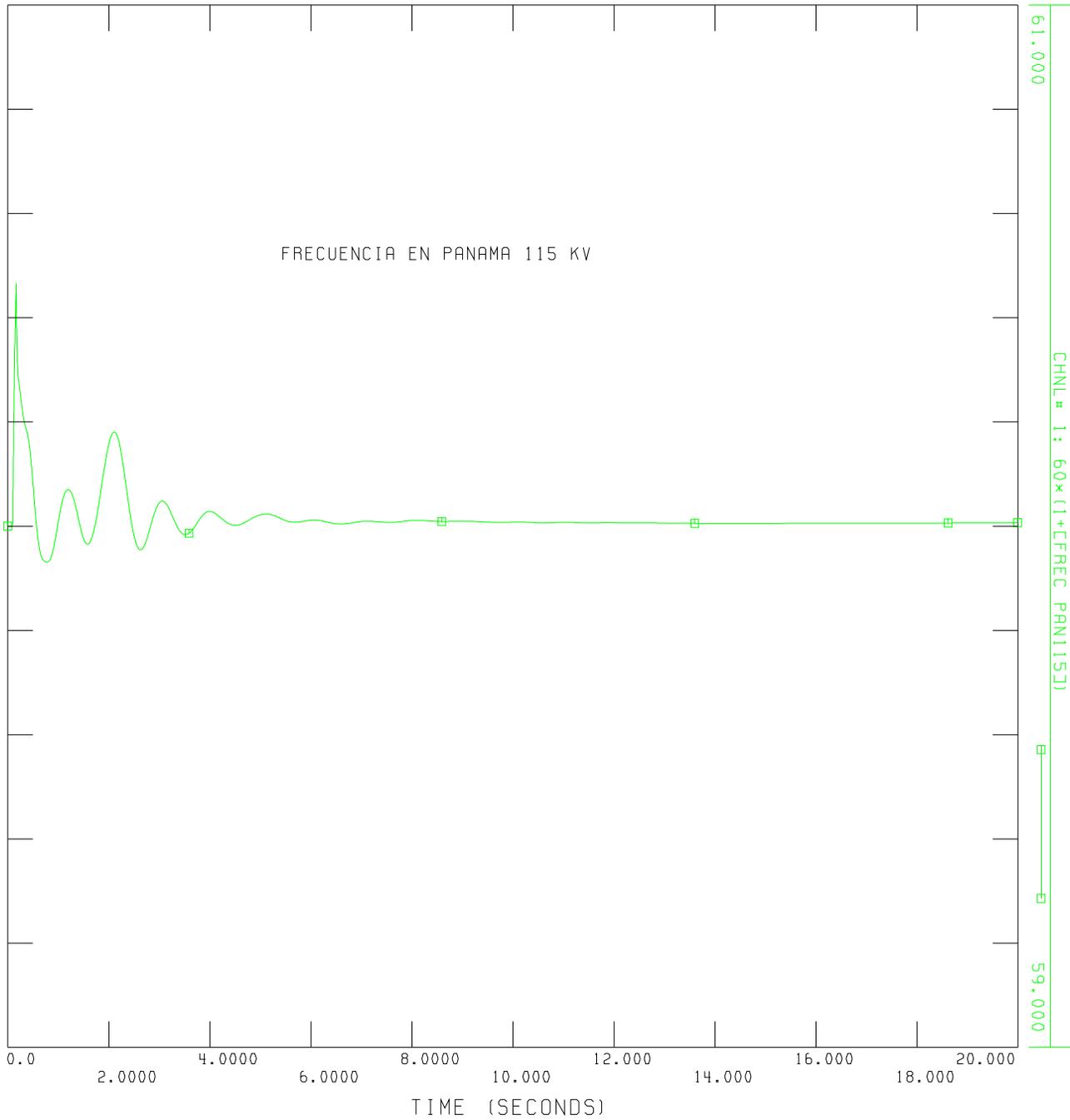


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTGDC8

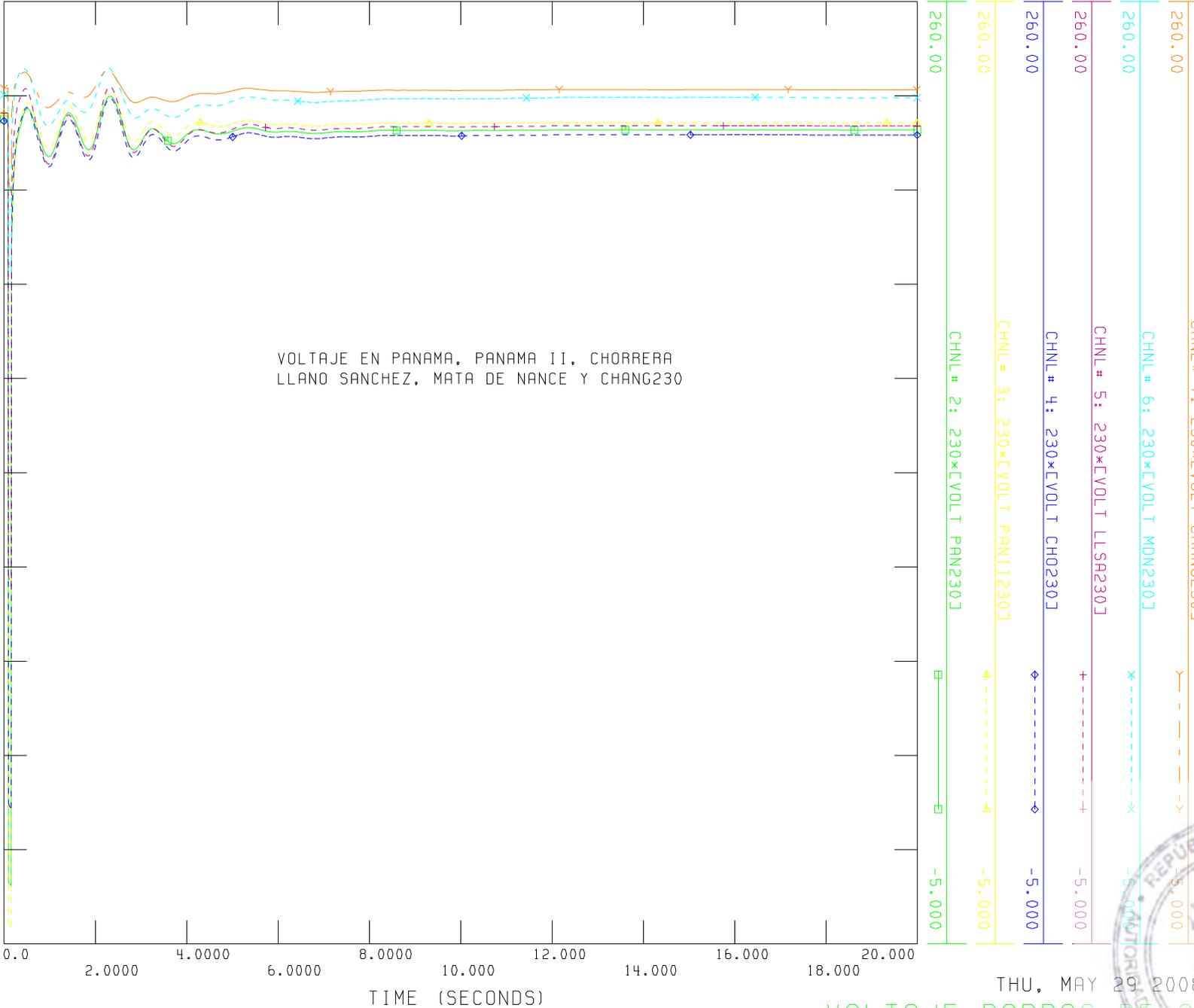
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THU, MAY 29 2008 8:47
 FRECUENCIA EN HZ



FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InyBas2.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

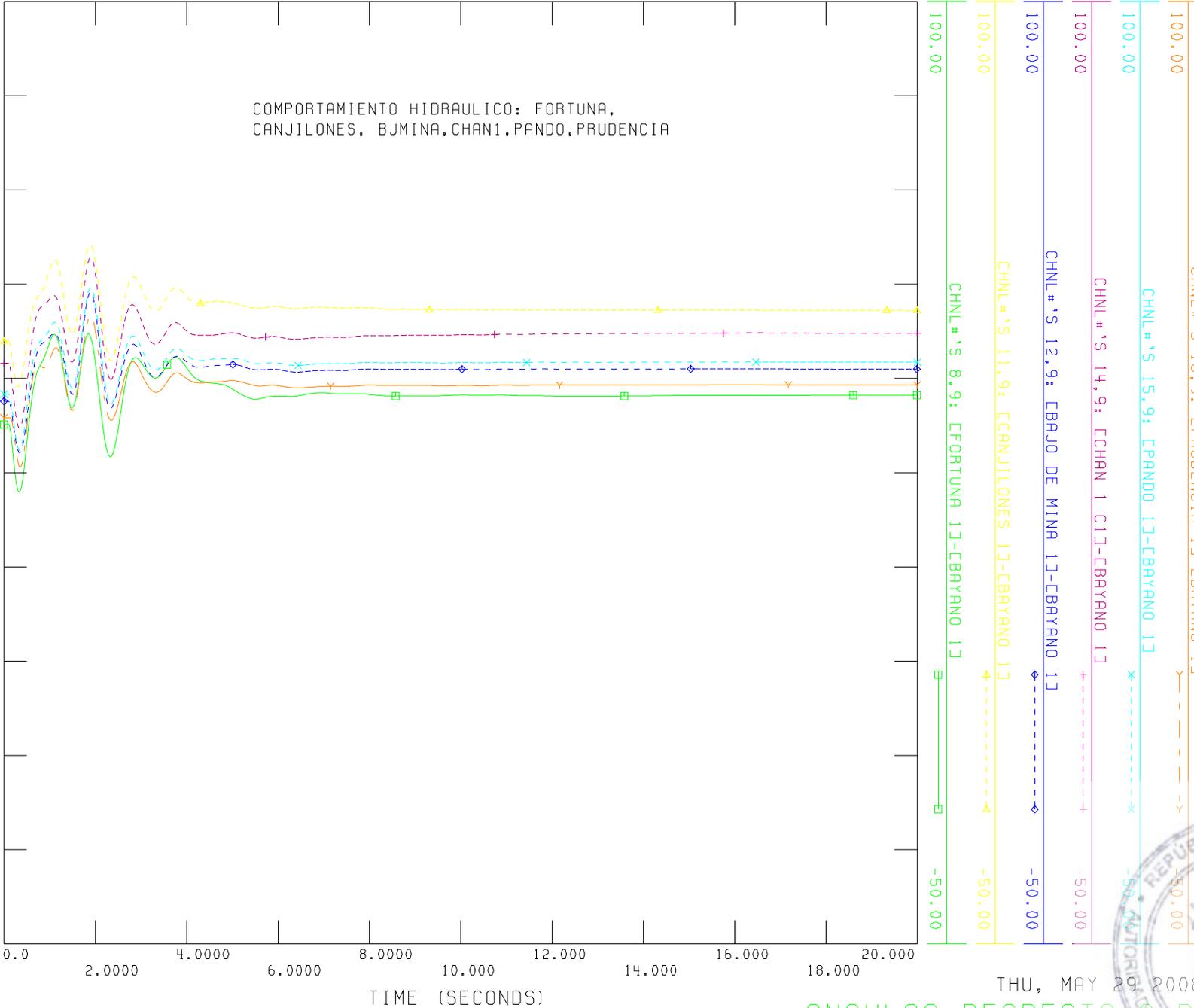
THU, MAY 29 2008 8:52

VOLTAJE BARRAS DE 230 KV



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THU, MAY 29, 2008 8:55

ANGULOS RESPECTO A BAYANO



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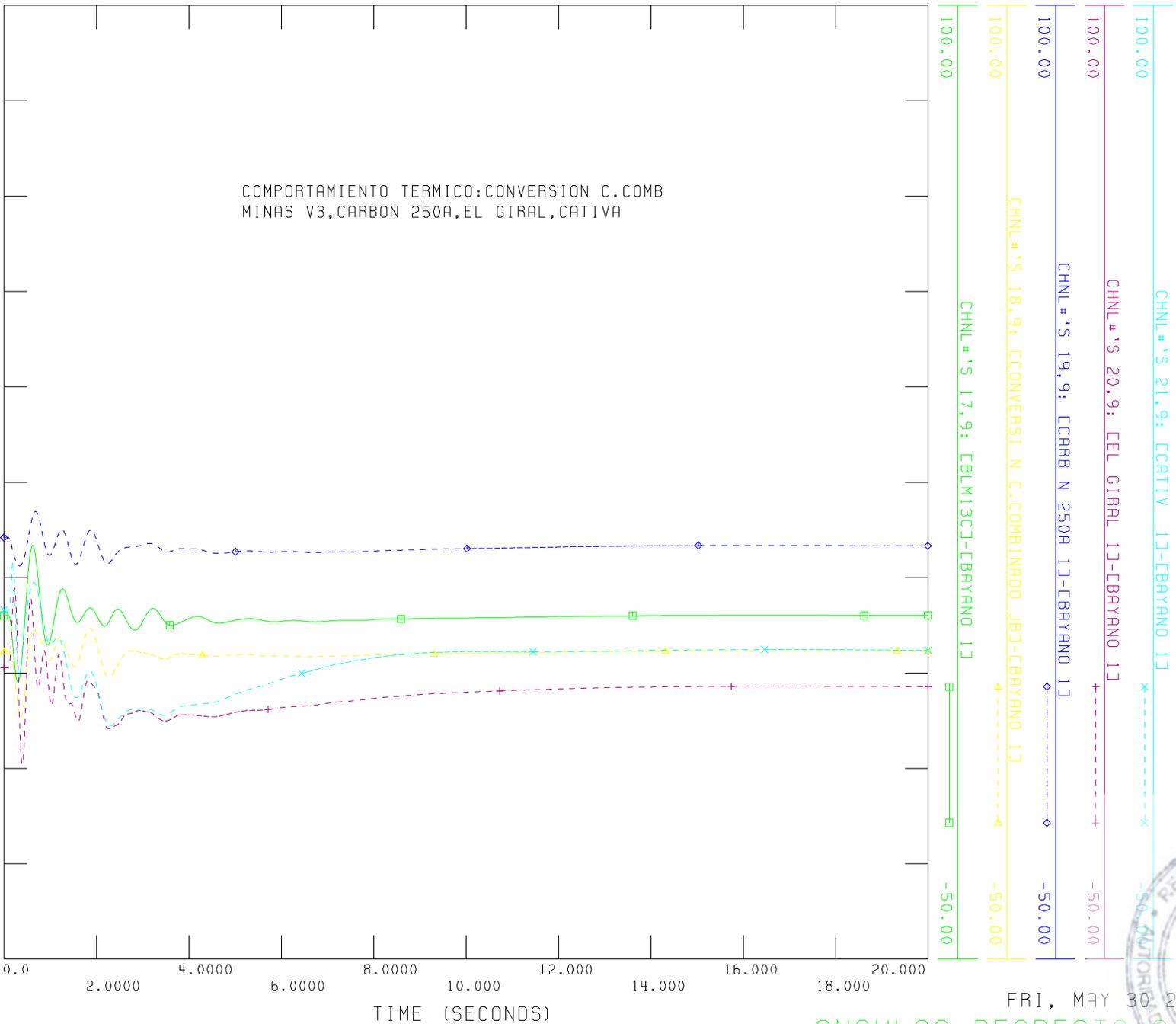
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

FILE: C:\Disco F\...\Dynamics\2016\2016PE_ModMax-InvGas2.out



FRI, MAY 30 2008 11:26

ANGULOS RESPECTO A BAYANO



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

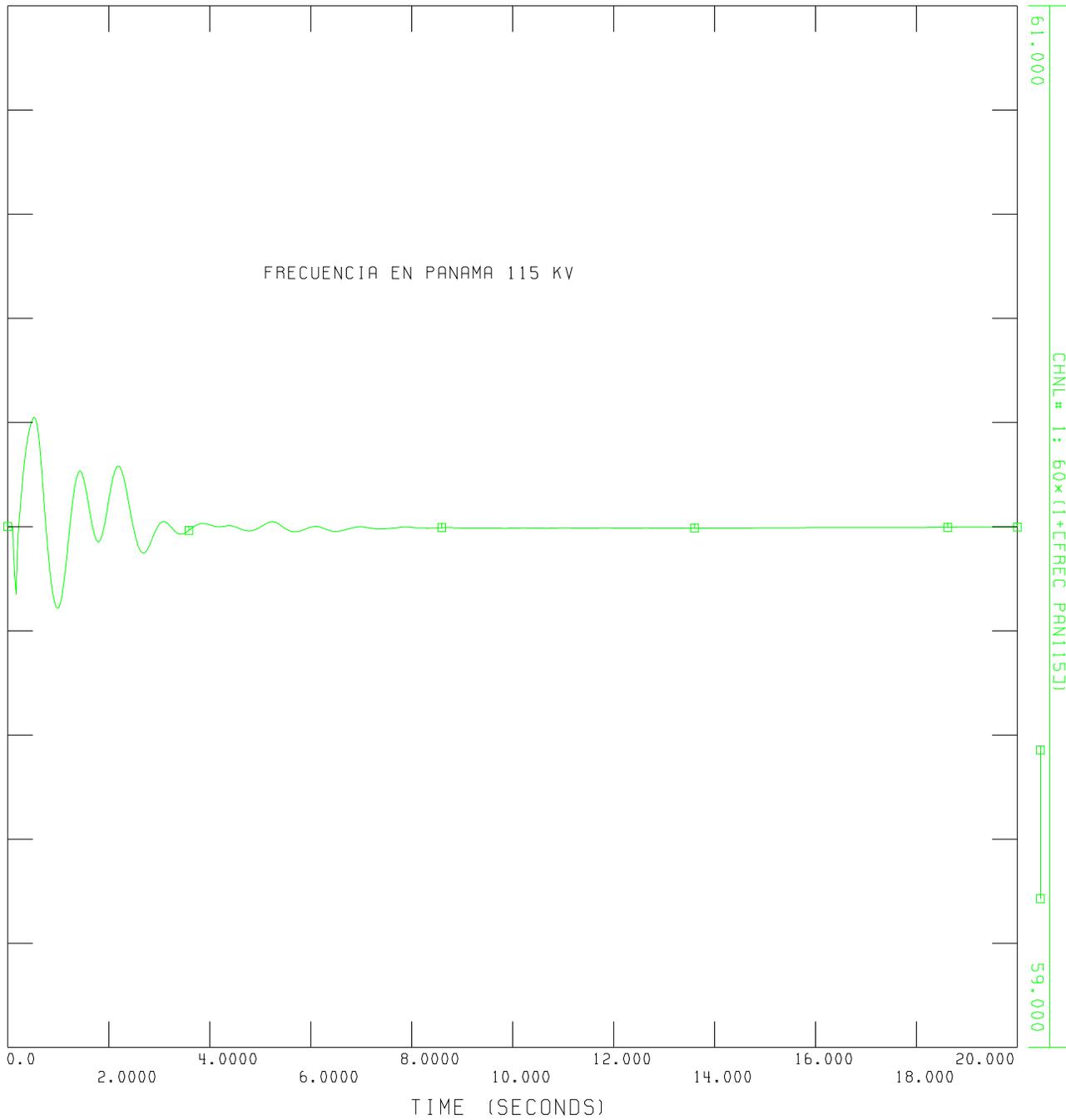


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

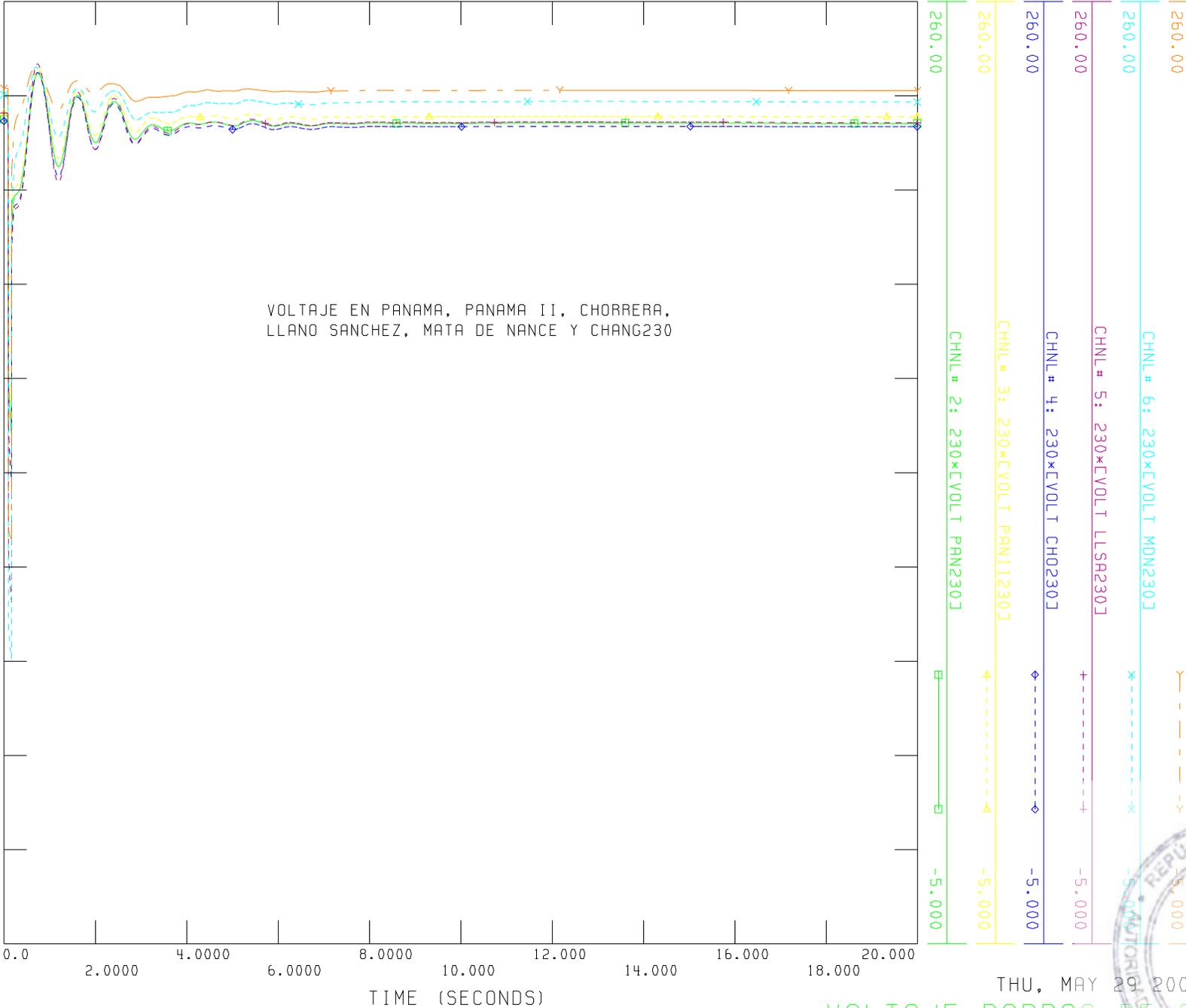
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THU, MAY 29 2008 10:20
FRECUENCIA EN HZ



FILE: C:\Disco F\PlaneExpandi n2008\Dynamics\2016PE_ModMax-InvGas3.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



THU, MAY 29 2008 10:24

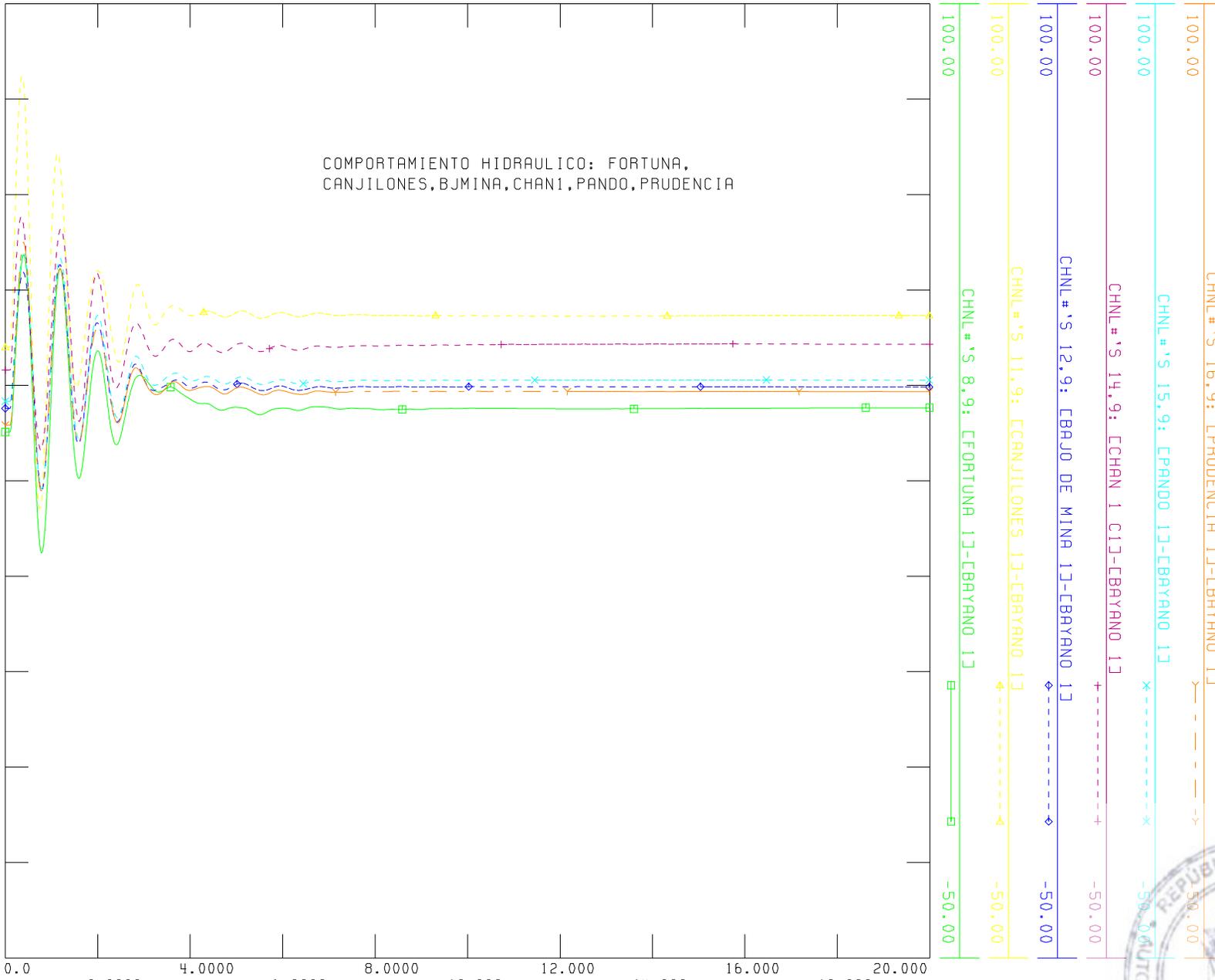
VOLTAJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvCas3.out



THU, MAY 29 2008 10:48

ANGULOS RESPECTO A BAYANO

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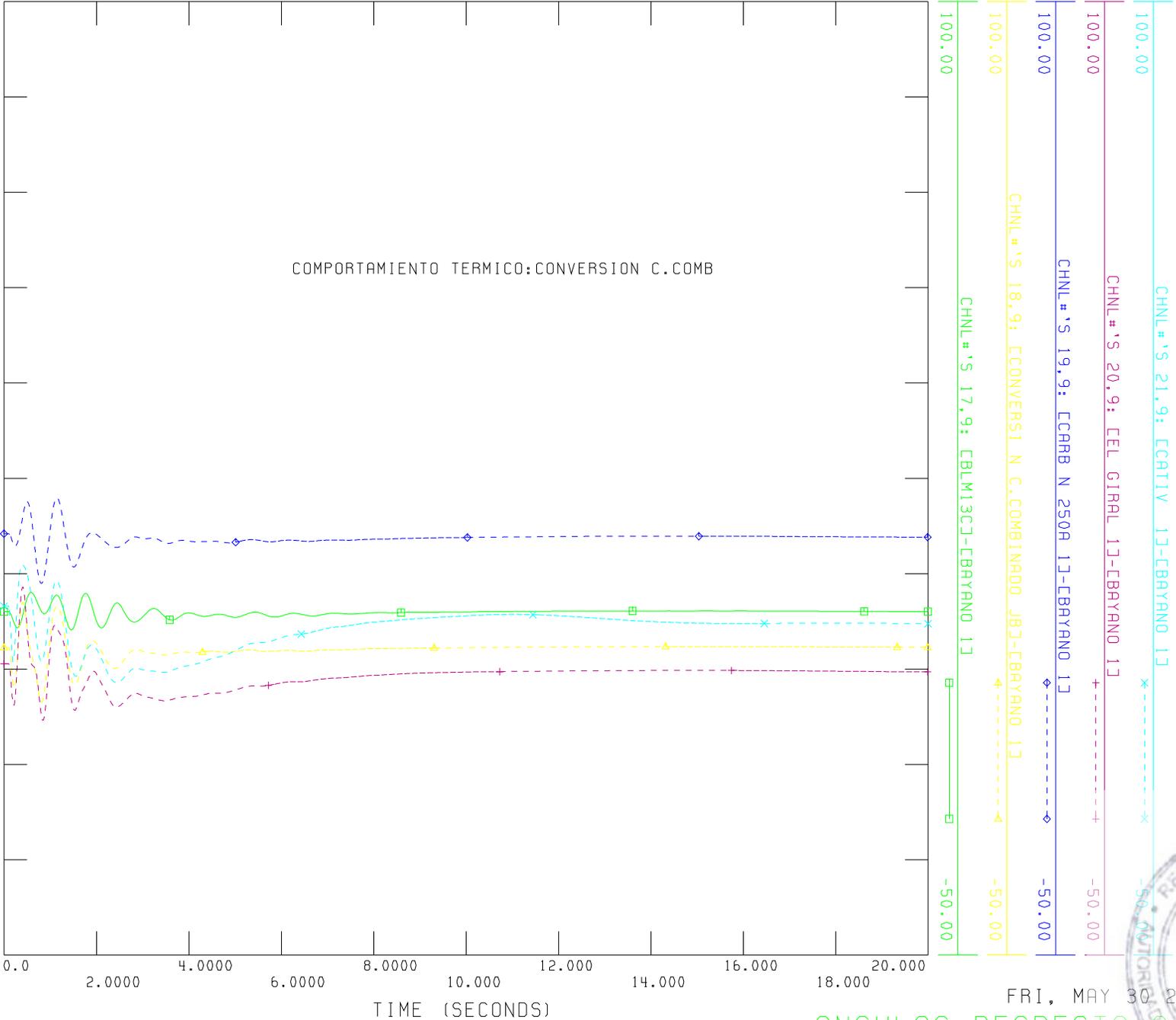
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

FILE: C:\Disco F\...\Dynamics\2016\2016PE_ModMax-InvGas3.out



FRI, MAY 30 2008 11:30

ANGULOS RESPECTO A BAYANO



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA- GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



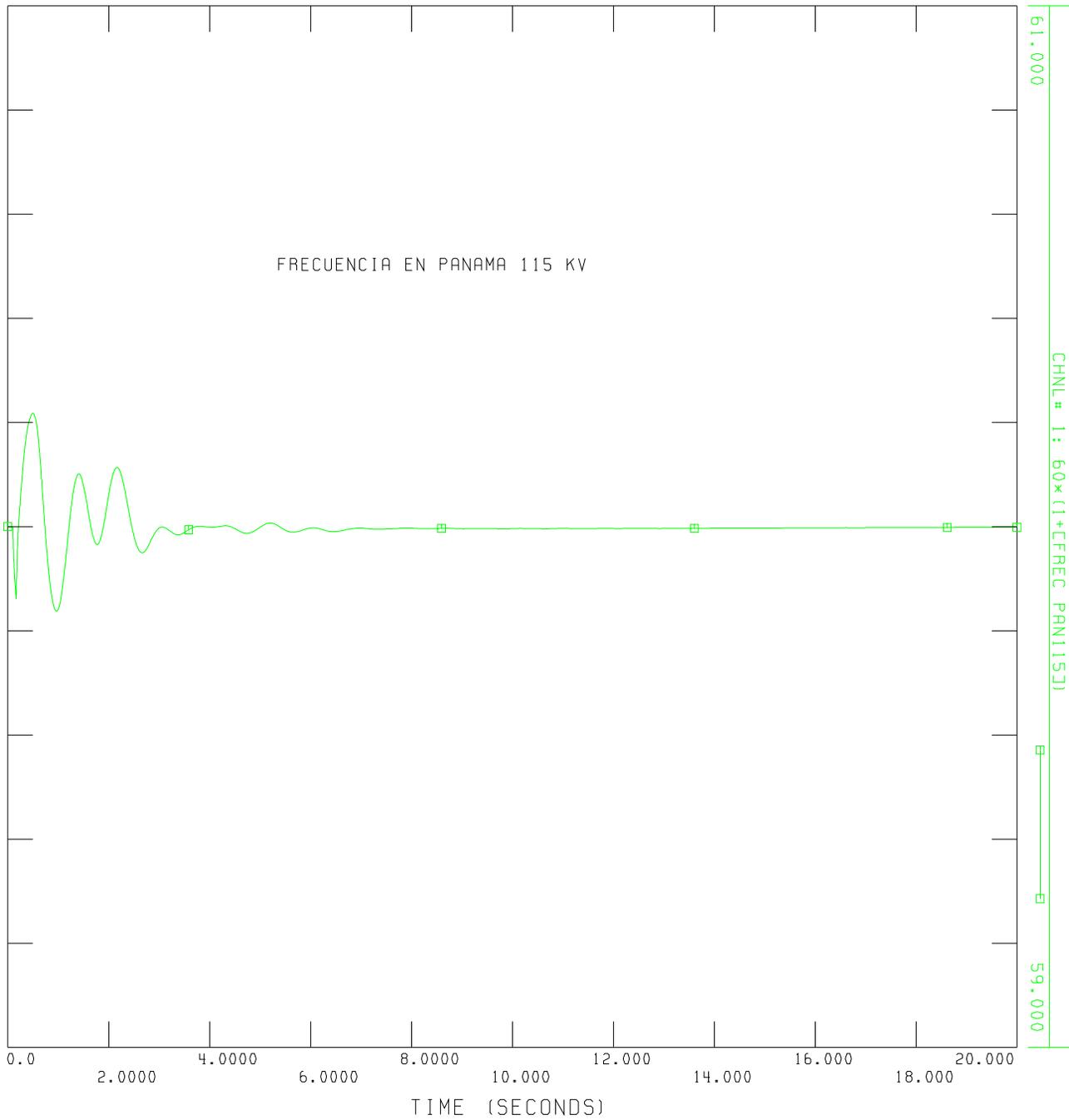


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

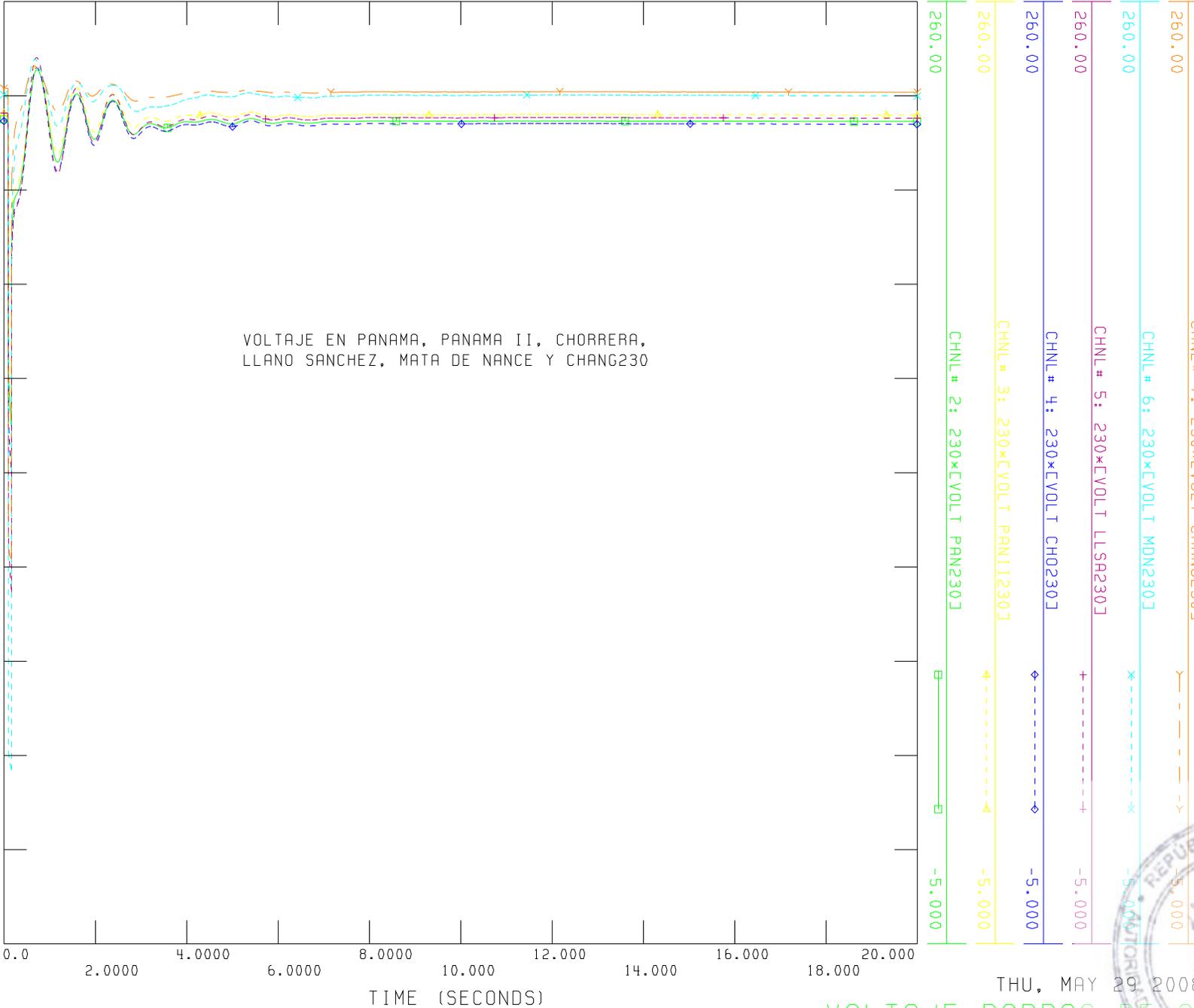
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THU, MAY 29 2008 14:10
FRECUENCIA EN HZ



FILE: C:\Disco F\PlaneExpandi n2008\Dynamics\2016PE_ModMax-InyGas4.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

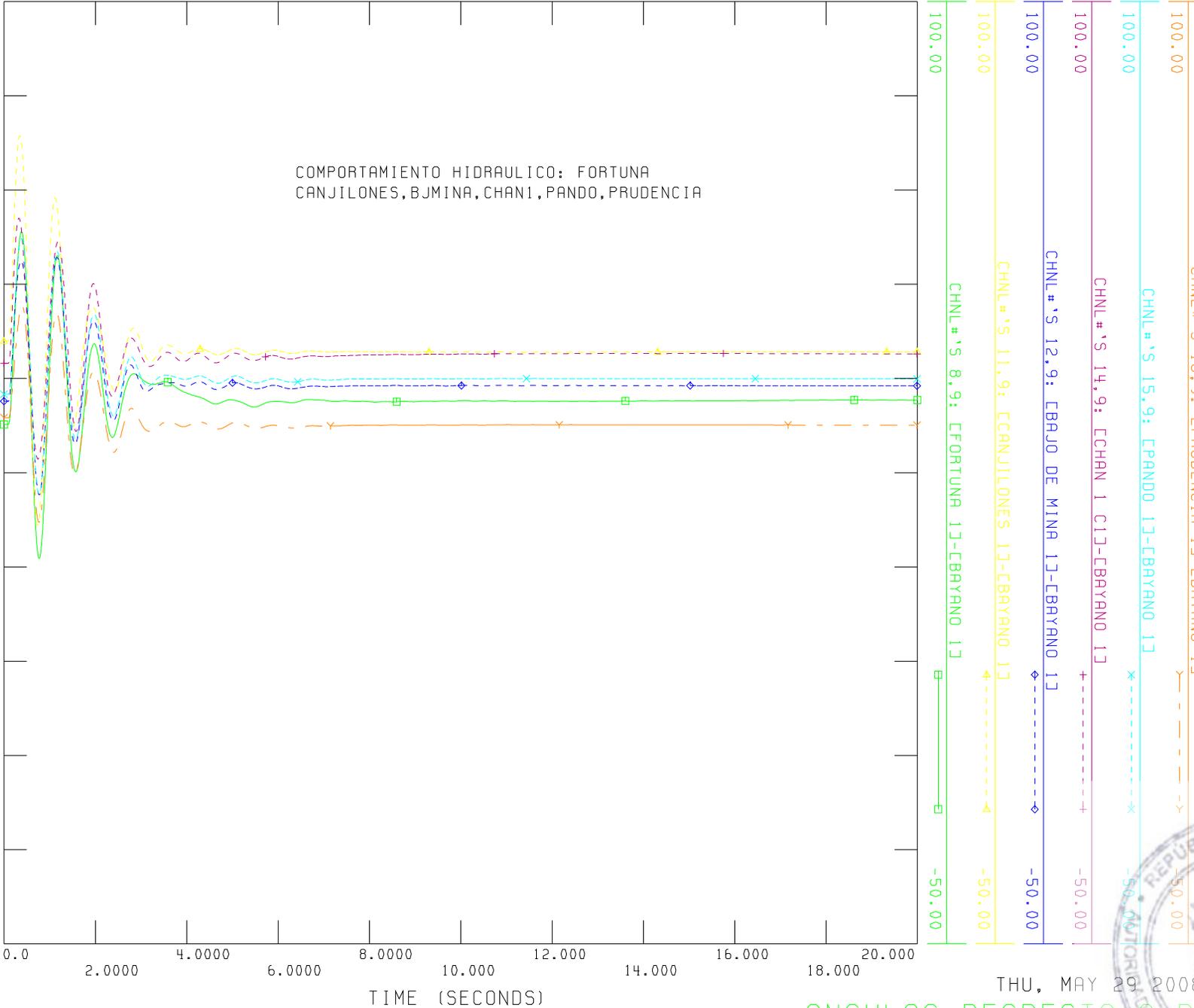
THU, MAY 29 2008 14:14

VOLTAJE BARRAS DE 230 KV



Handwritten signature or initials.

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2016PE_ModMax-InyGas4.out



THU, MAY 29 2008 15:43

ANGULOS RESPECTO A BAYANO



Handwritten signature or initials.



PLAN. EXP-SIN CON C.H. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTGDC8

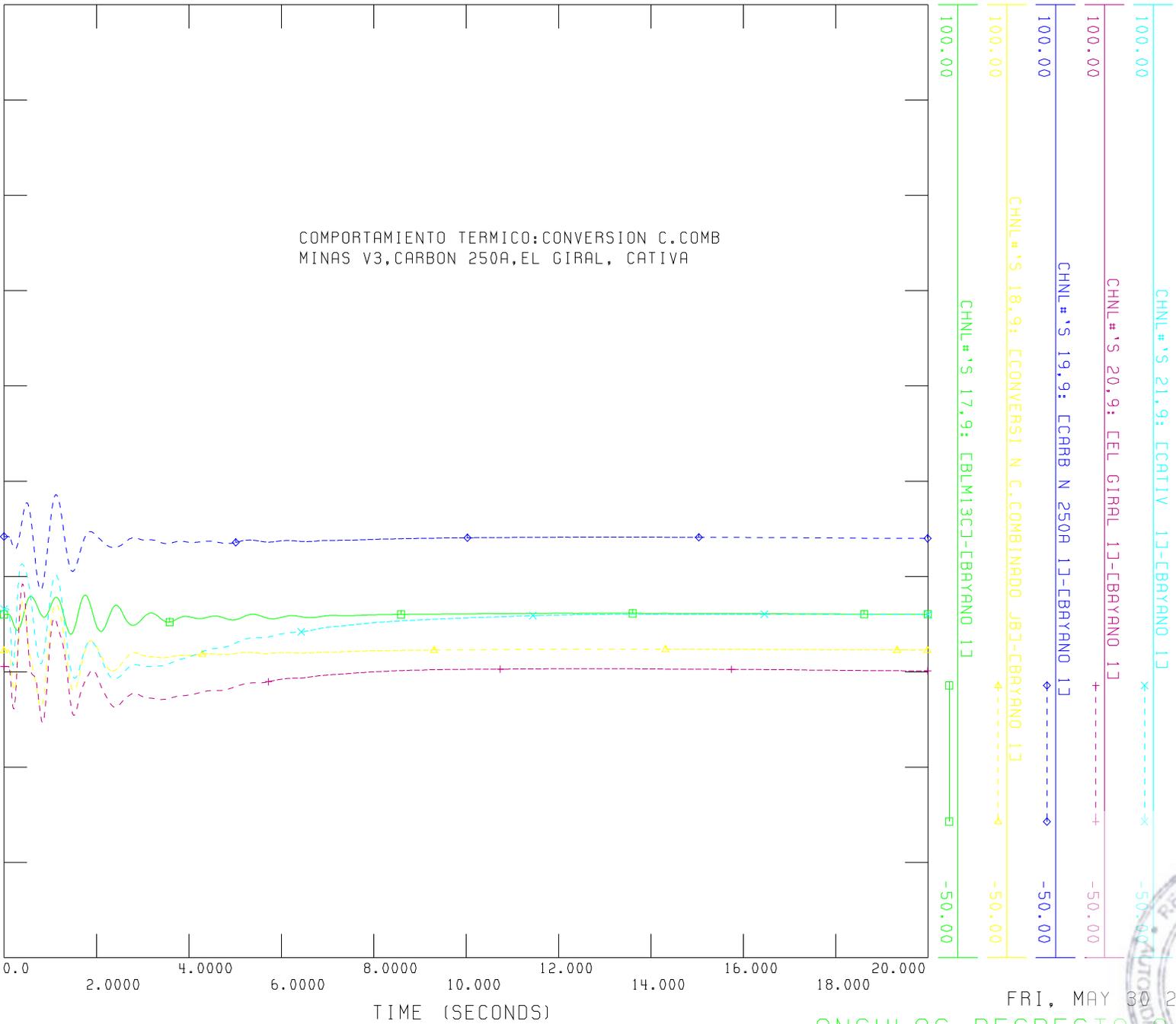
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FRI, MAY 30 2008 11:32

ANGULOS RESPECTO A BAYANO

COMPORTAMIENTO TERMICO: CONVERSION C.COMB
 MINAS V3, CARBON 250A, EL GIRAL, CATIVA



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE- VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

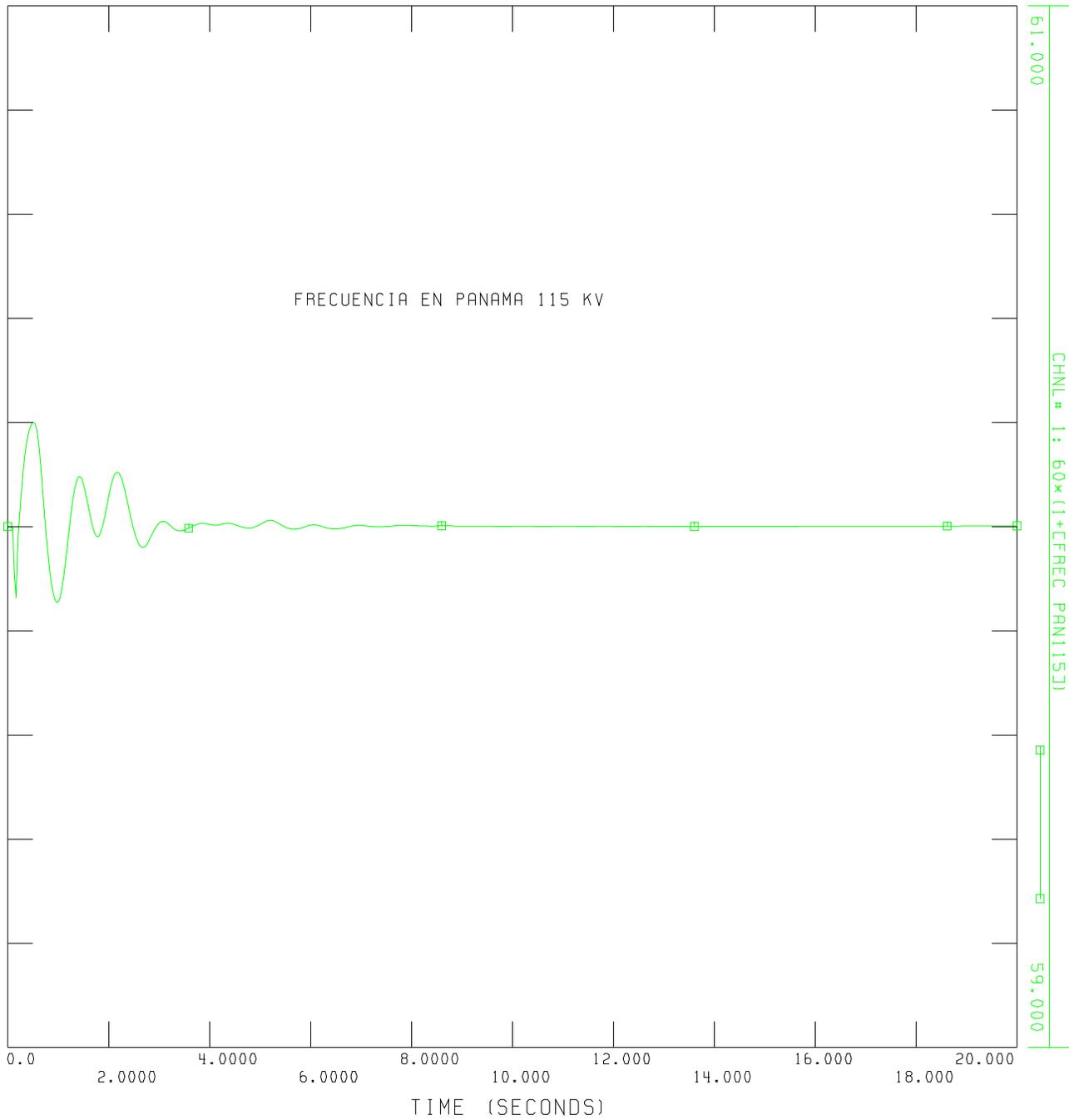


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

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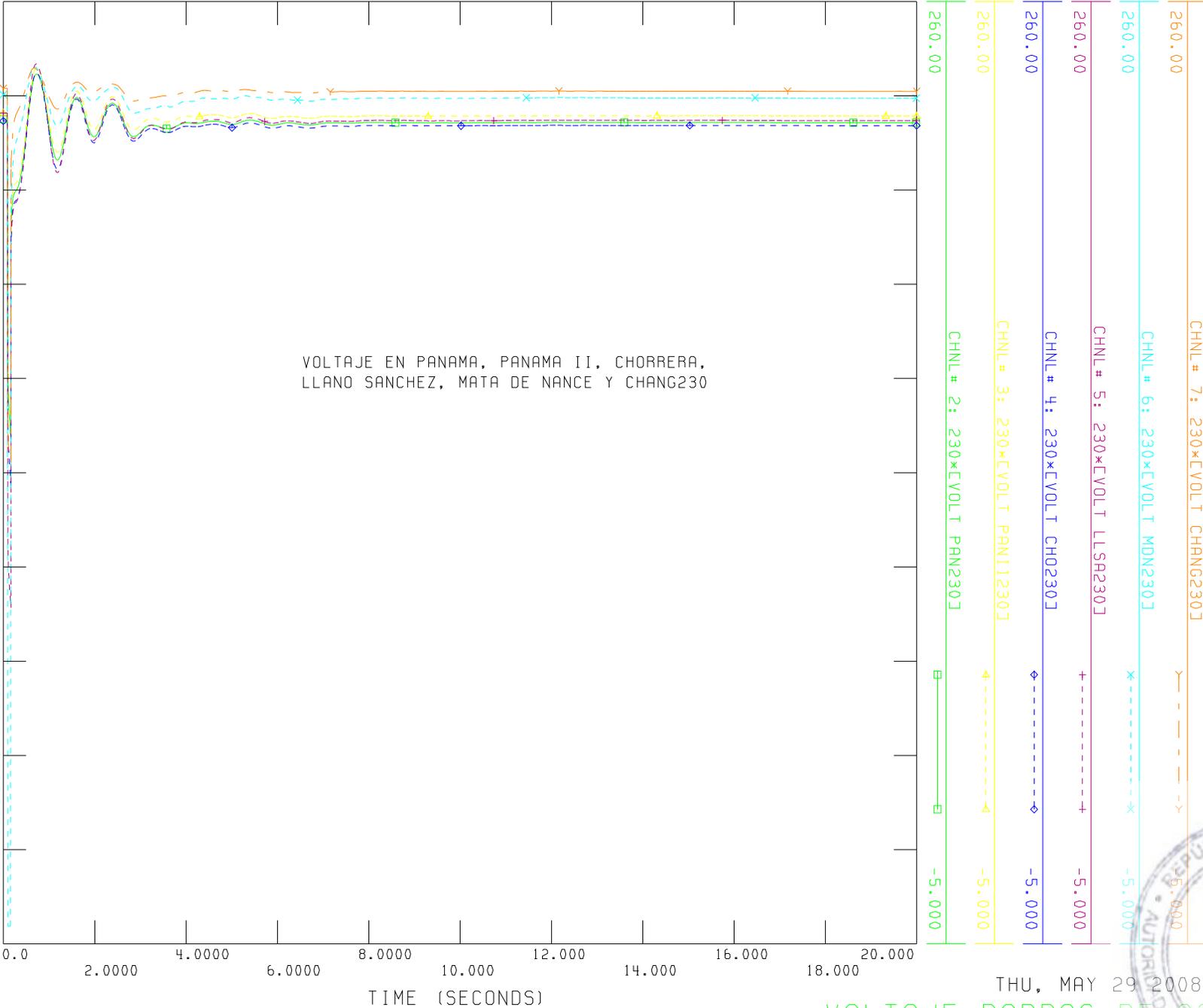
THU, MAY 29 2008 16:26
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016 REGMHTGDC8

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THU, MAY 29 2008 16:28

VOLTAJE BARRAS DE 230 KV

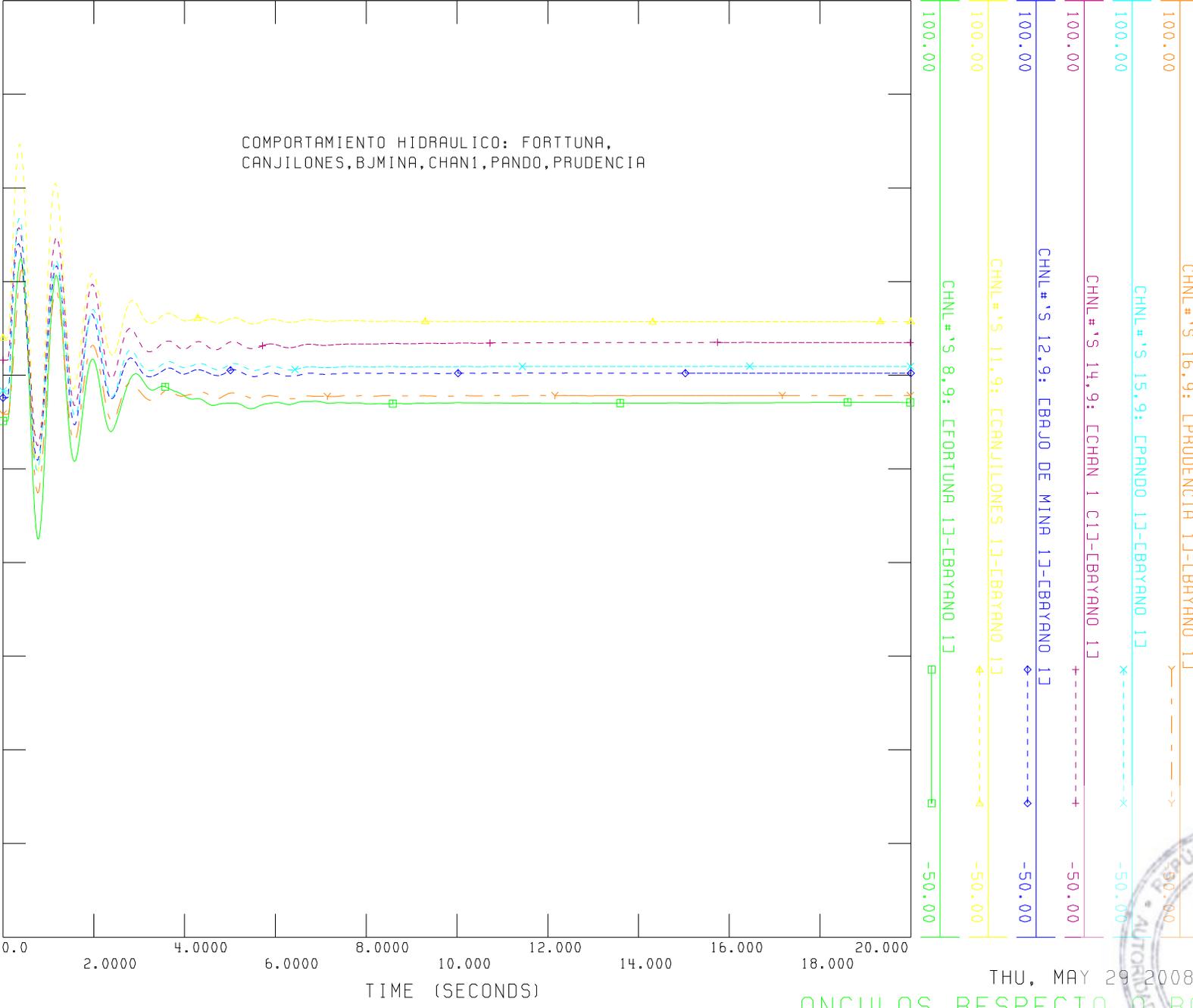


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016 REGMHTGDC8

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THU, MAY 29 2008 16:37

ANGULOS RESPECTO A BAYANO



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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

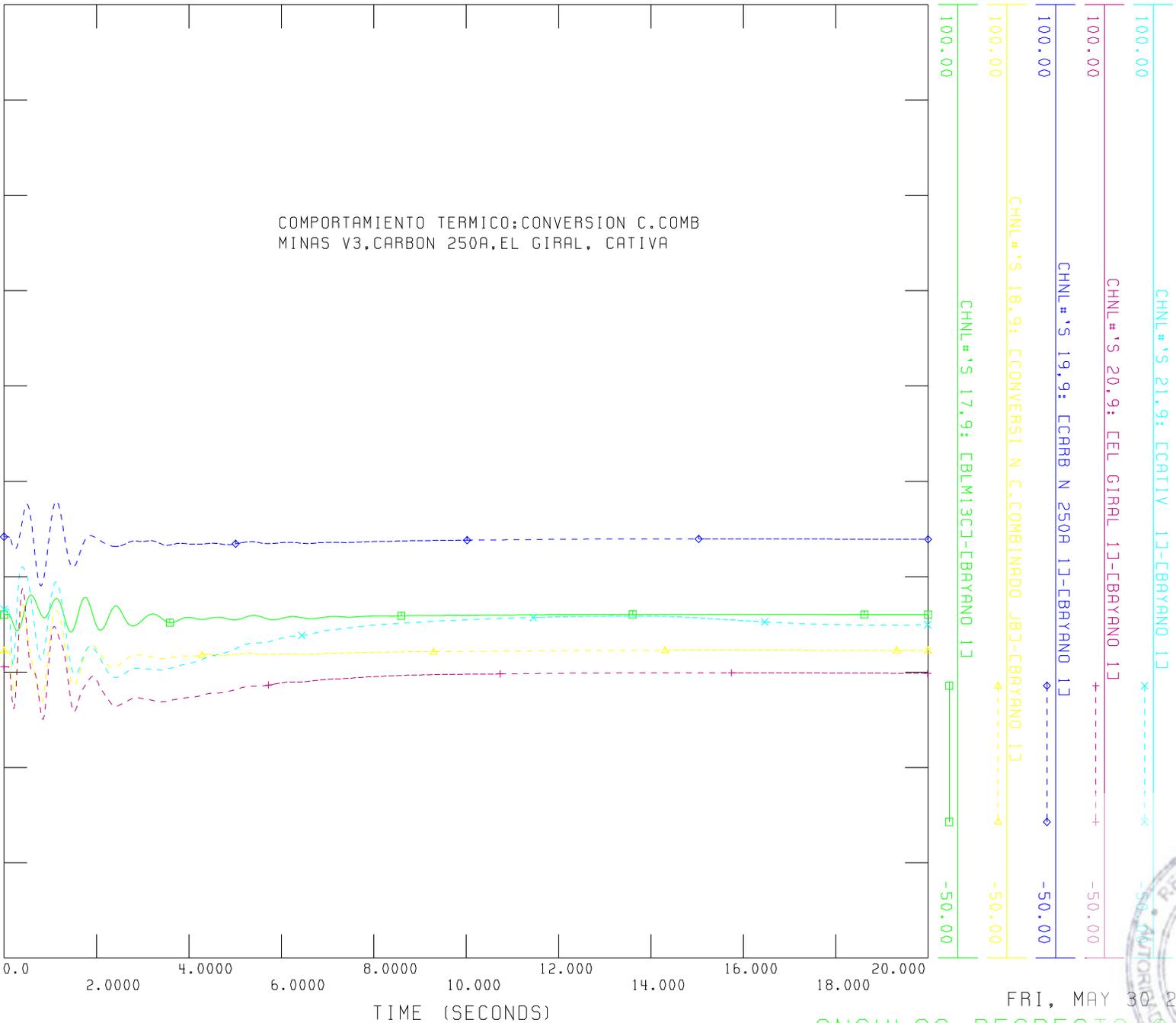
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FRI, MAY 30 2008 11:36

ANGULOS RESPECTO A BAYANO

COMPORTAMIENTO TERMICO:CONVERSION C.COMB
MINAS V3,CARBON 250A,EL GIRAL, CATIVA



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA- PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



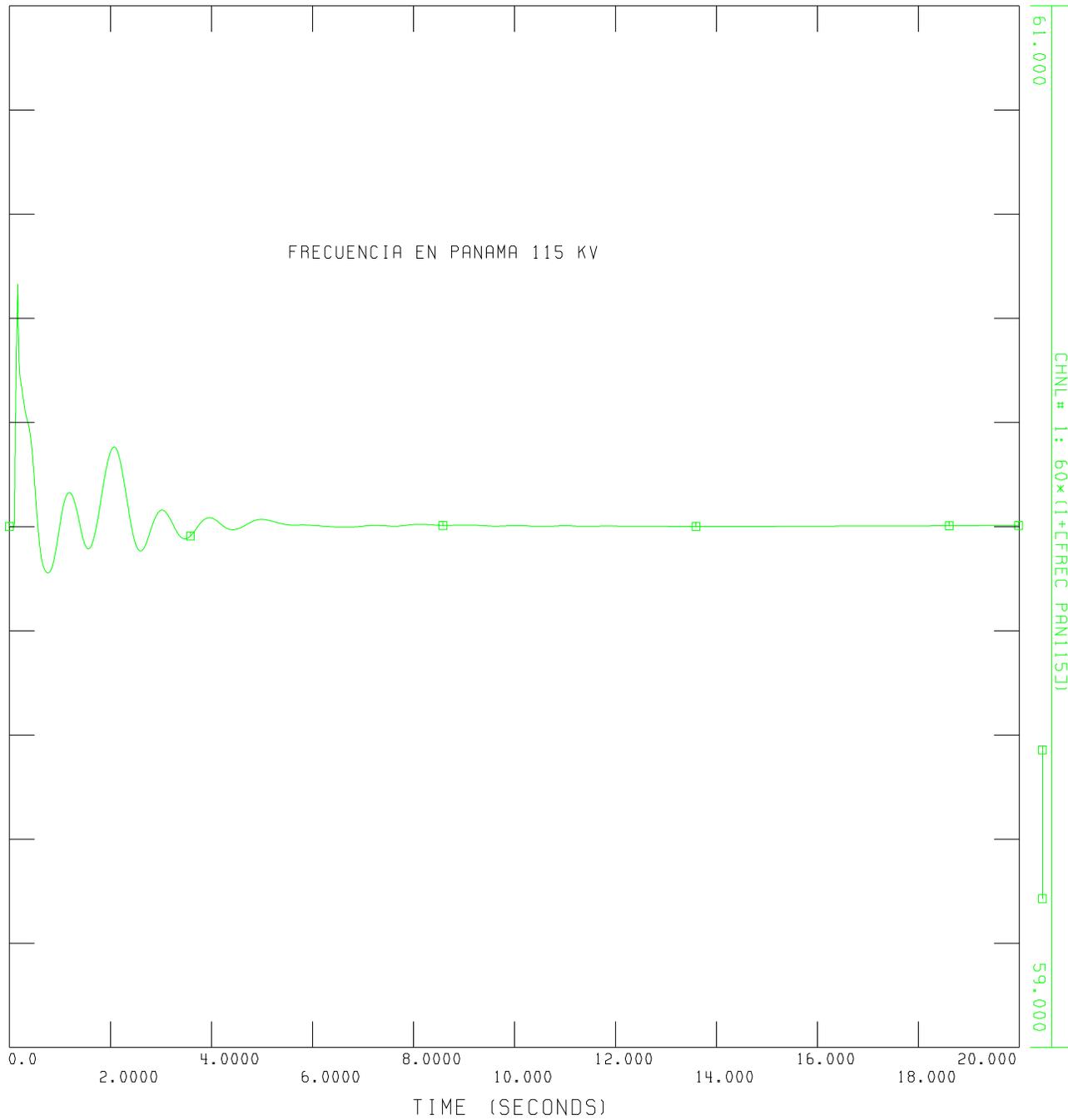


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTGDC8

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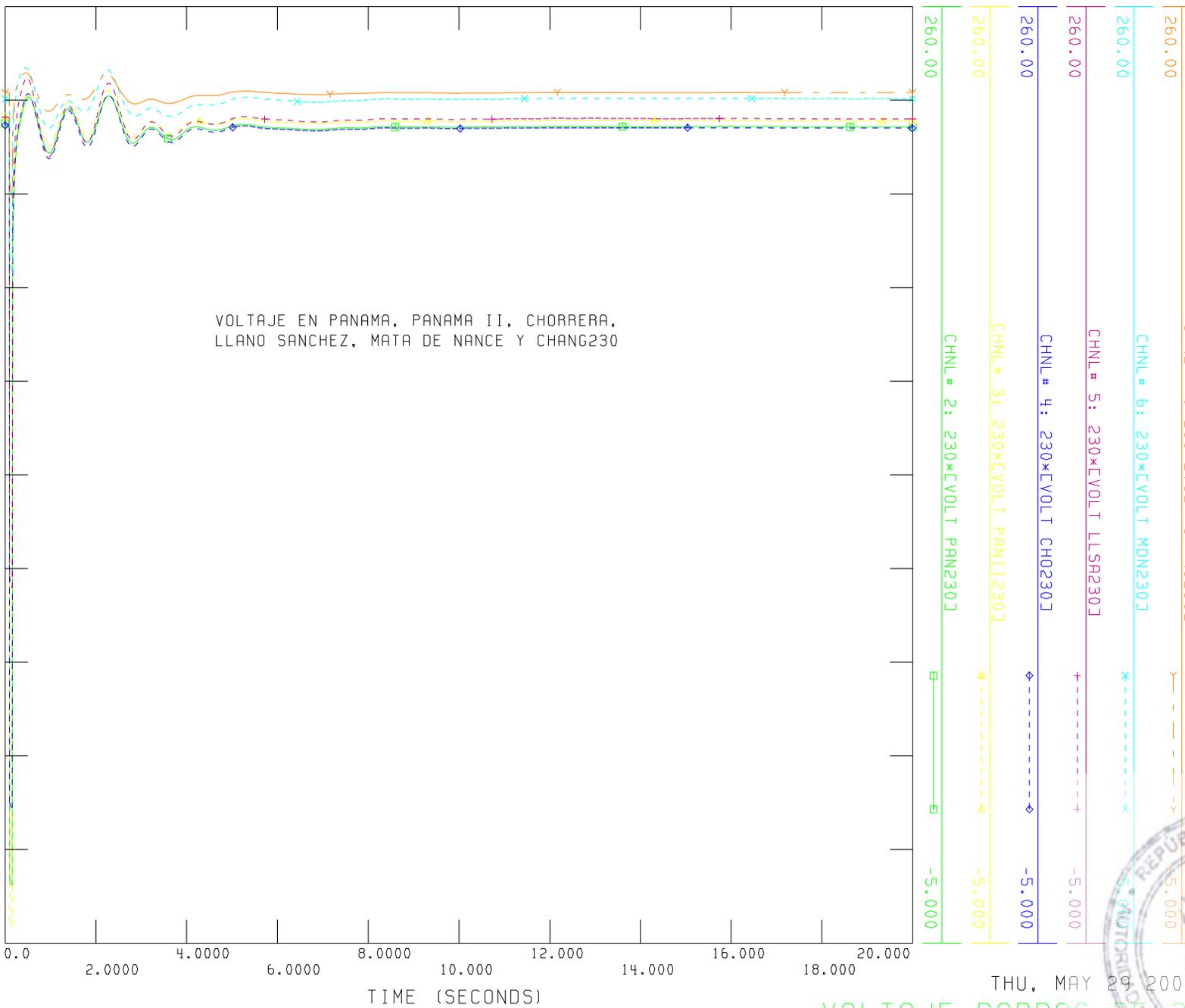
THU, MAY 29 2008 17:05
FRECUENCIA EN HZ





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MRX INV
 R 0 2016 REGMHTGDCC8

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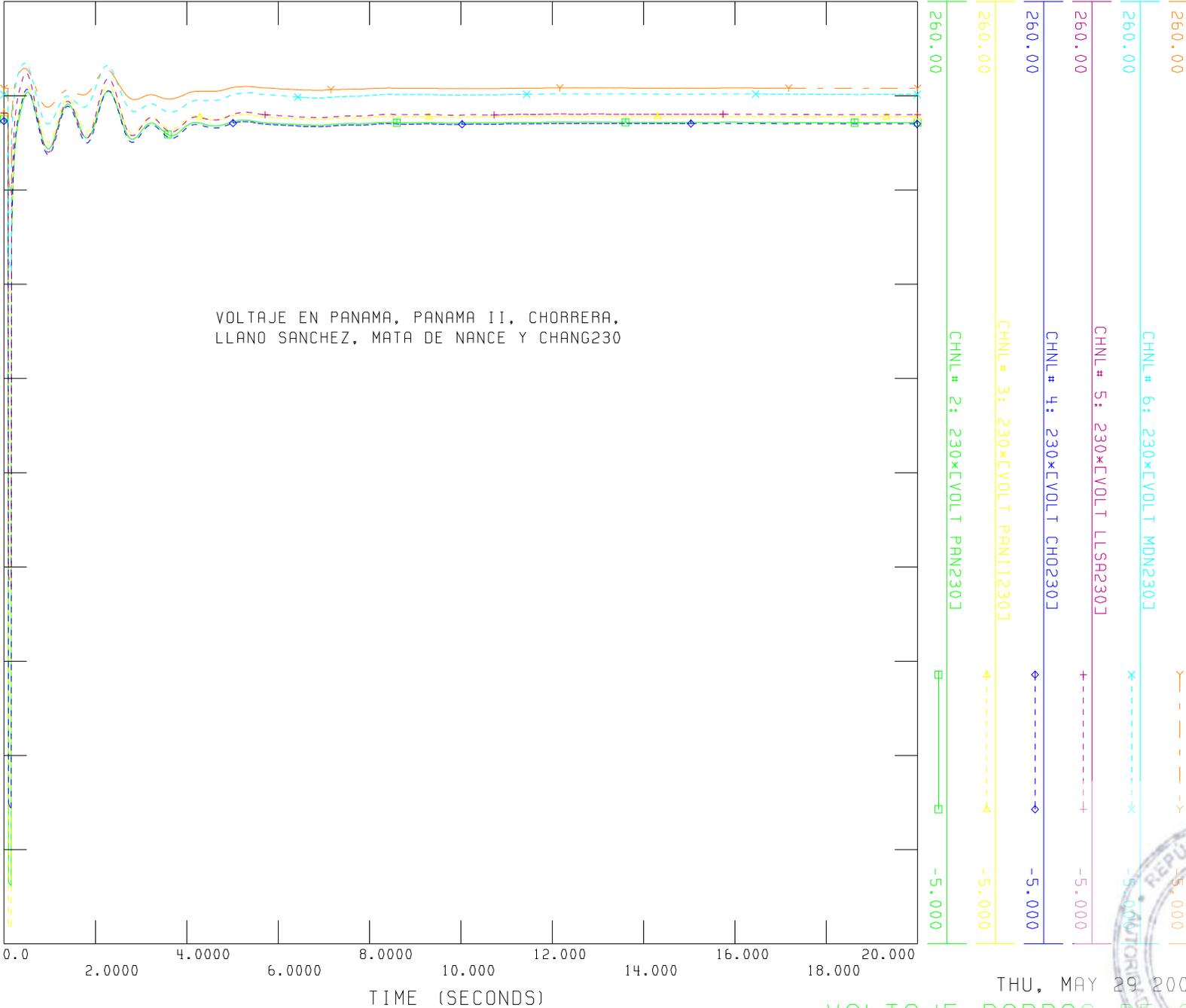


THU, MAY 29 2008 17:27

VOLTAJE BARRAS DE 230 KV

Handwritten signature

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2016PE_ModMax-InvBas6.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



THU, MAY 29 2008 17:27

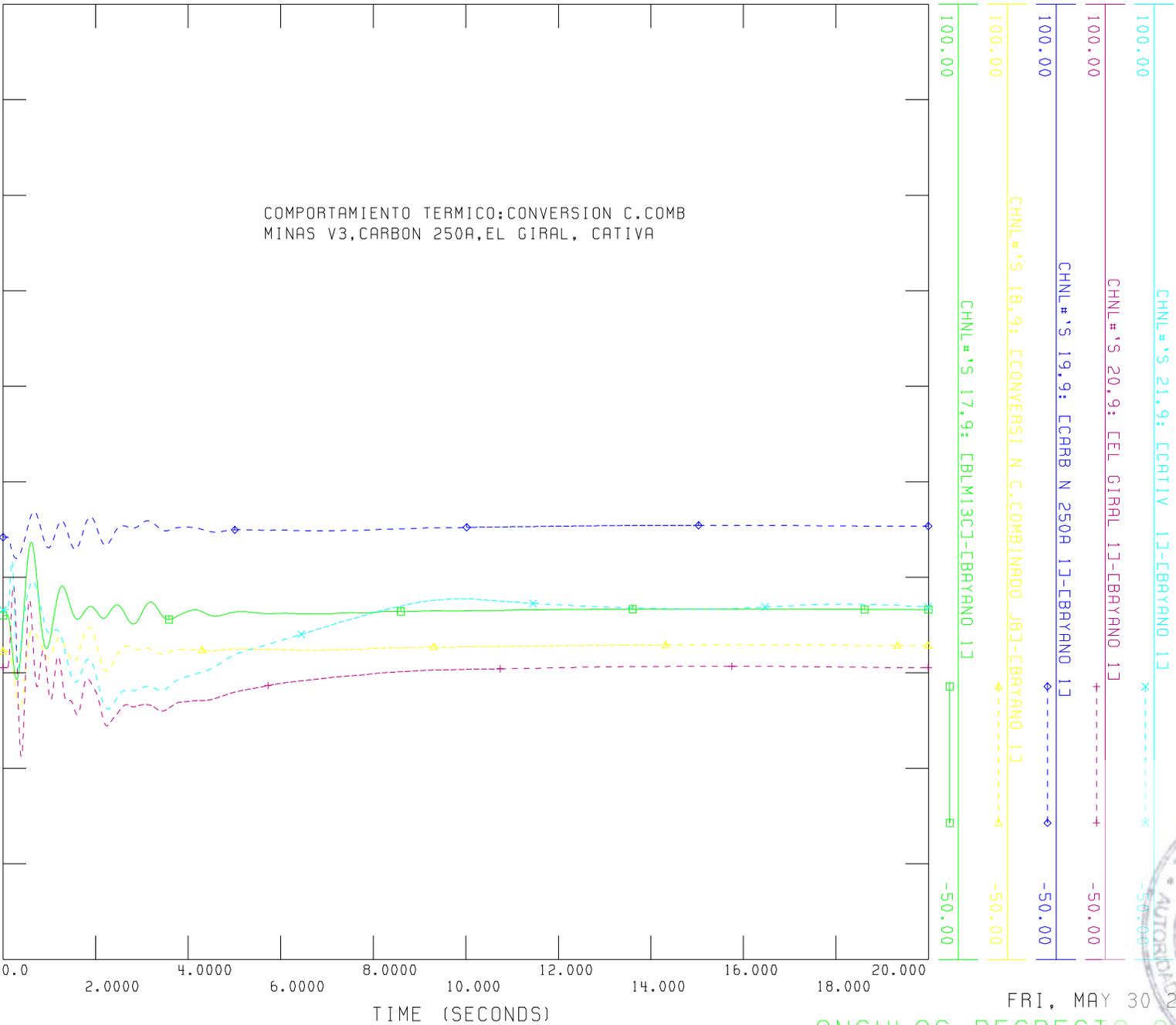
VOLTAJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INVA
A 0 2016 REGMHTGDC8

FILE: C:\Disco F...\Dynamics\2016\2016PE_ModMax-InvGas6.out



FRI, MAY 30 2008 11:40

ANGULOS RESPECTO A BAYANO

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA – PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

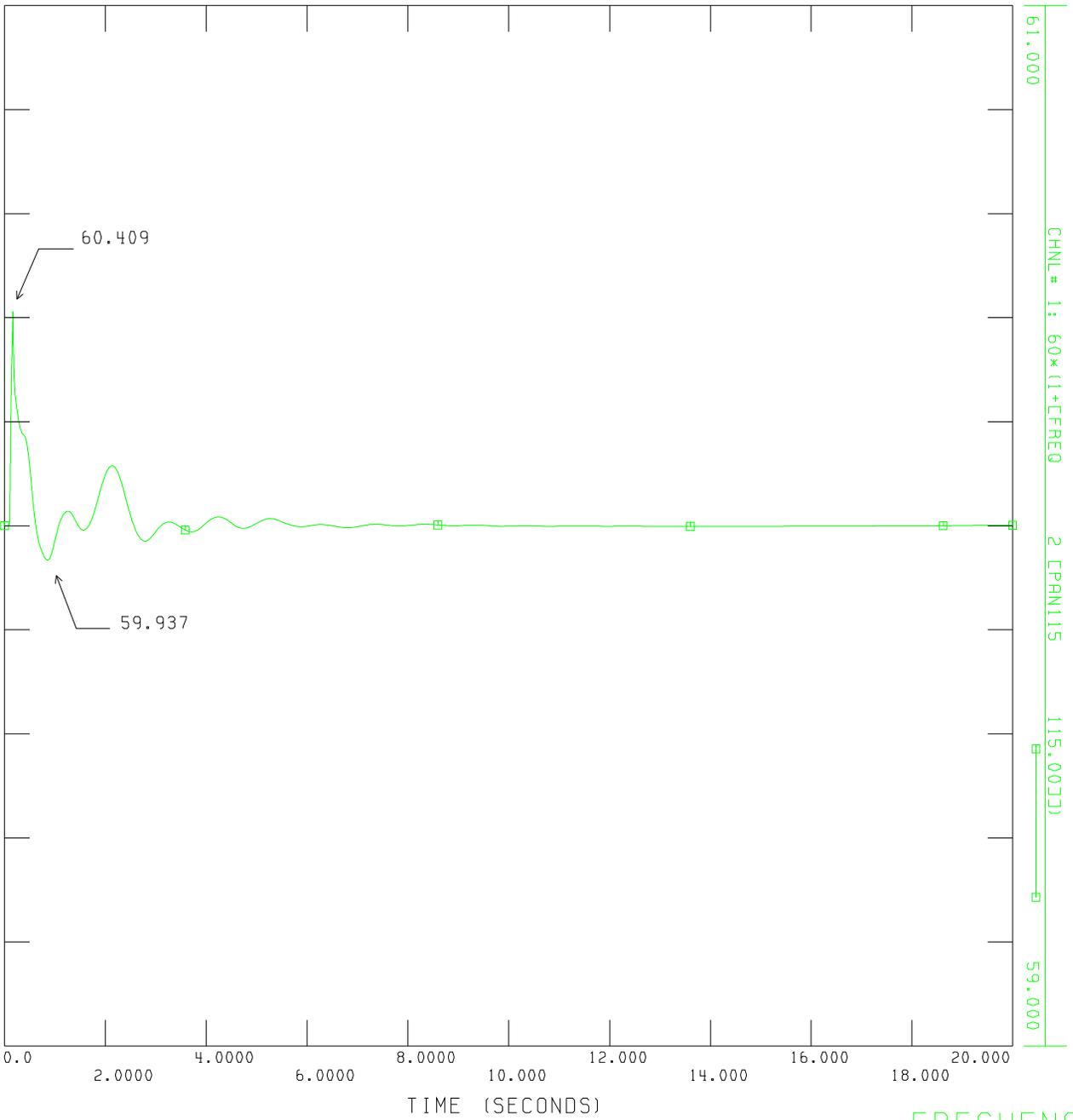


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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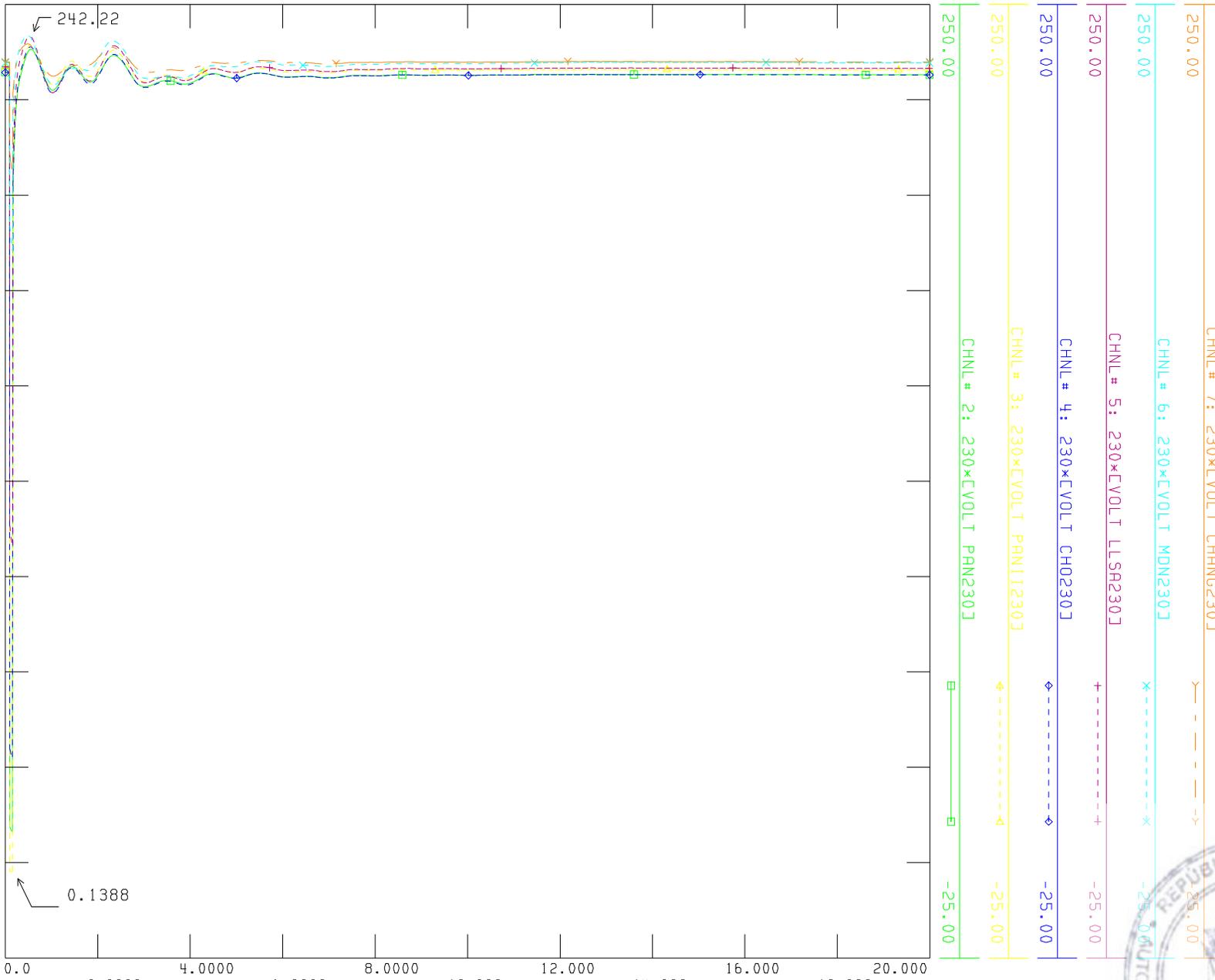


WED, MAY 28 2008 8:58

FRECUENCIA PANAMA 115 KV

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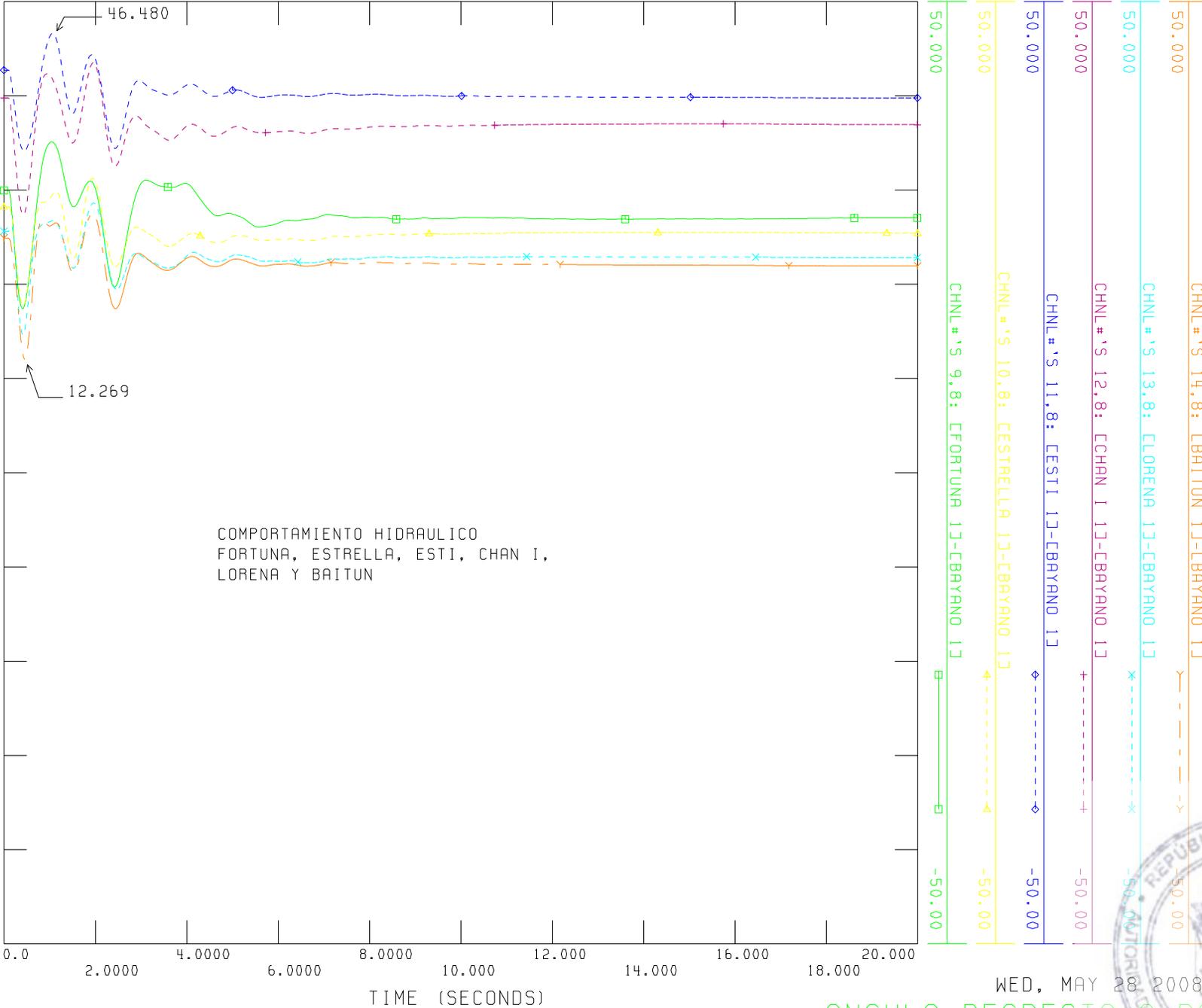


WED, MAY 28 2008 9:01

VOLTAJE BARRAS 230 KV

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FILE: ... \VESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 Concl1.out



WED, MAY 28 2008 9:18

ANGULO RESPECTO A BAYANO



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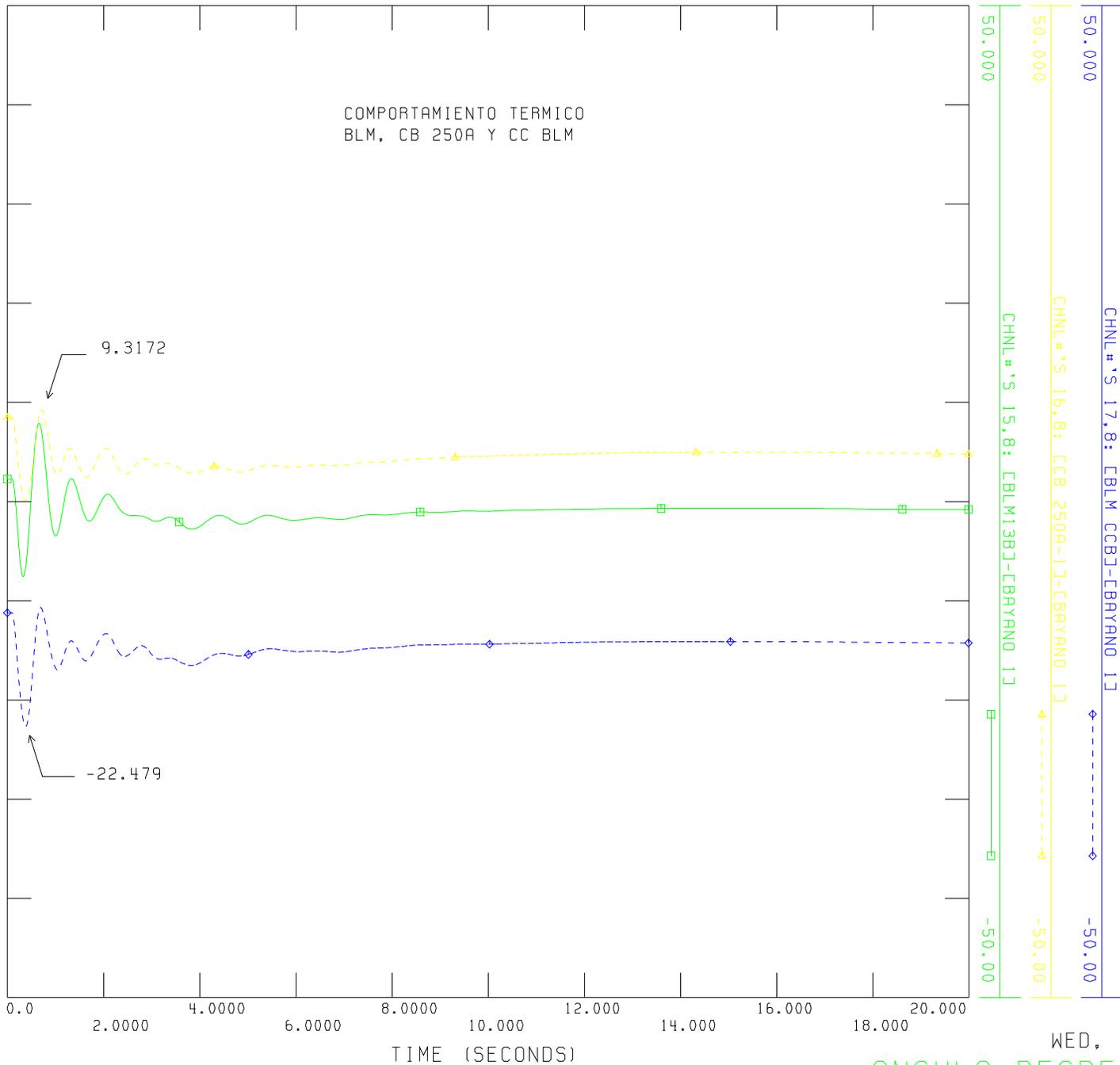
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTTLR8

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WED, MAY 28 2008 9:21

ANGULO RESPECTO A BAYANO



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA PANAMÁ II – LLANO SÁNCHEZ
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

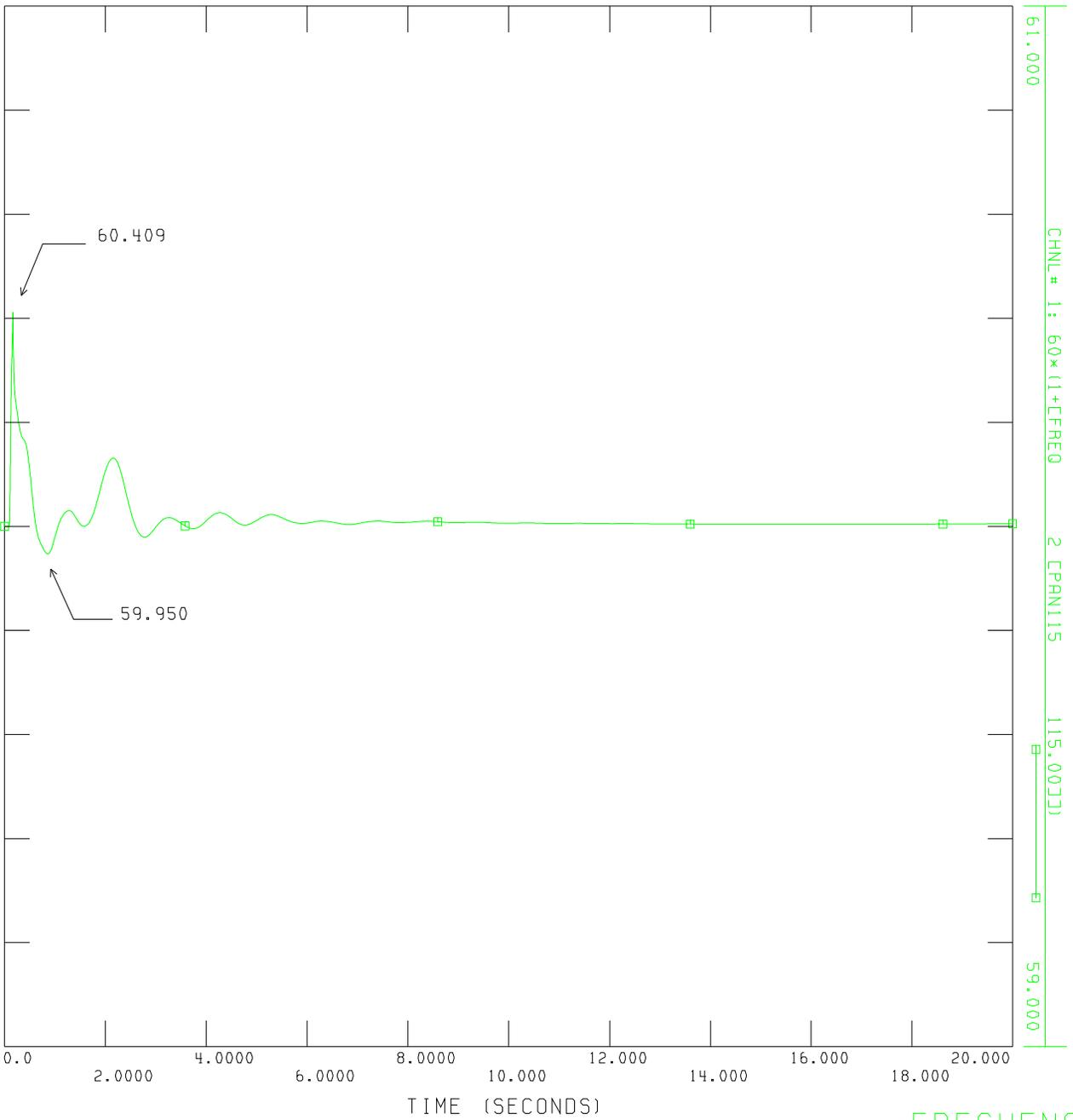


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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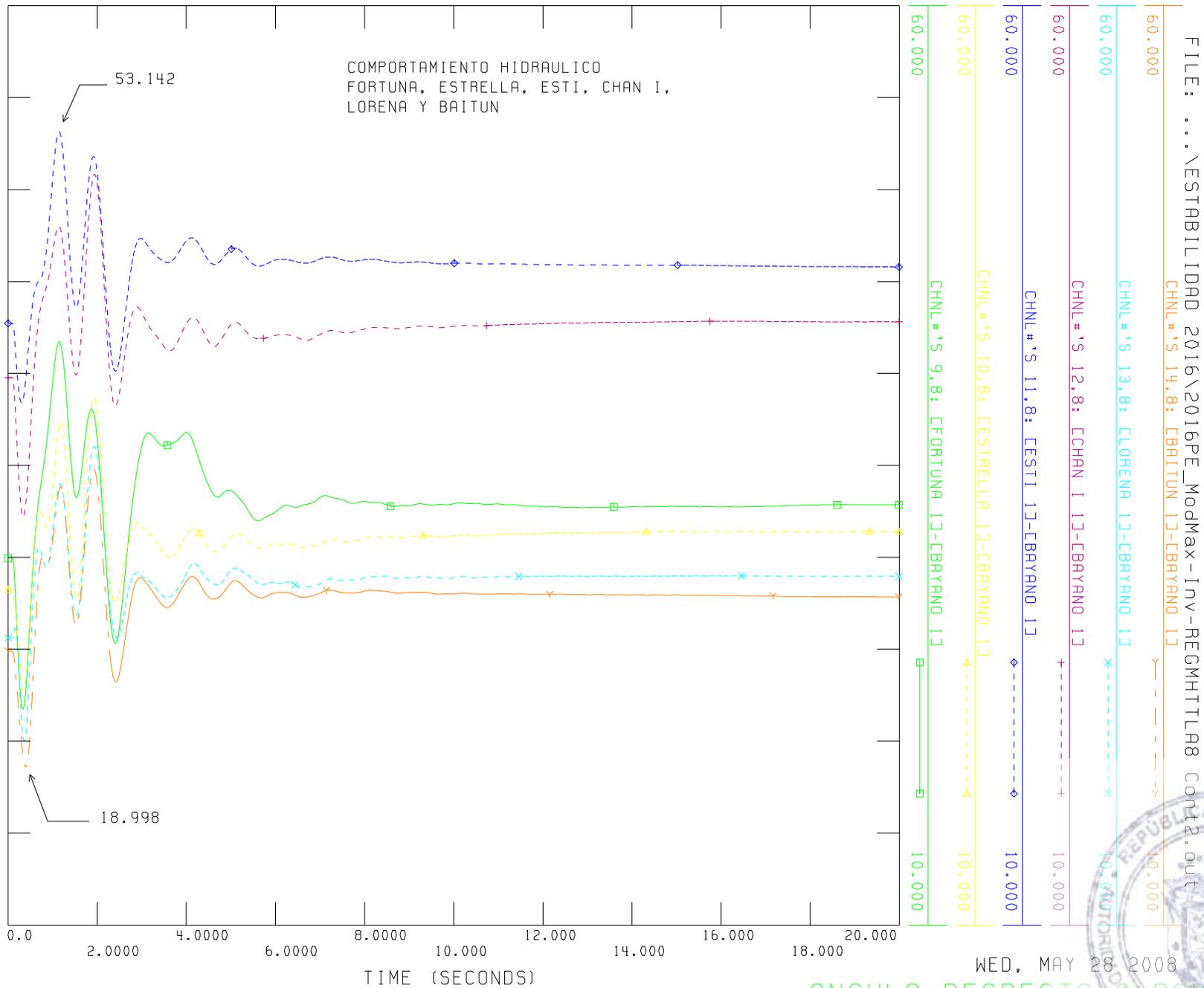
WED, MAY 28 2008 9:31

FRECUENCIA PANAMA 115 KV





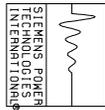
PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTTLR8



WED, MAY 28 2008 9:43

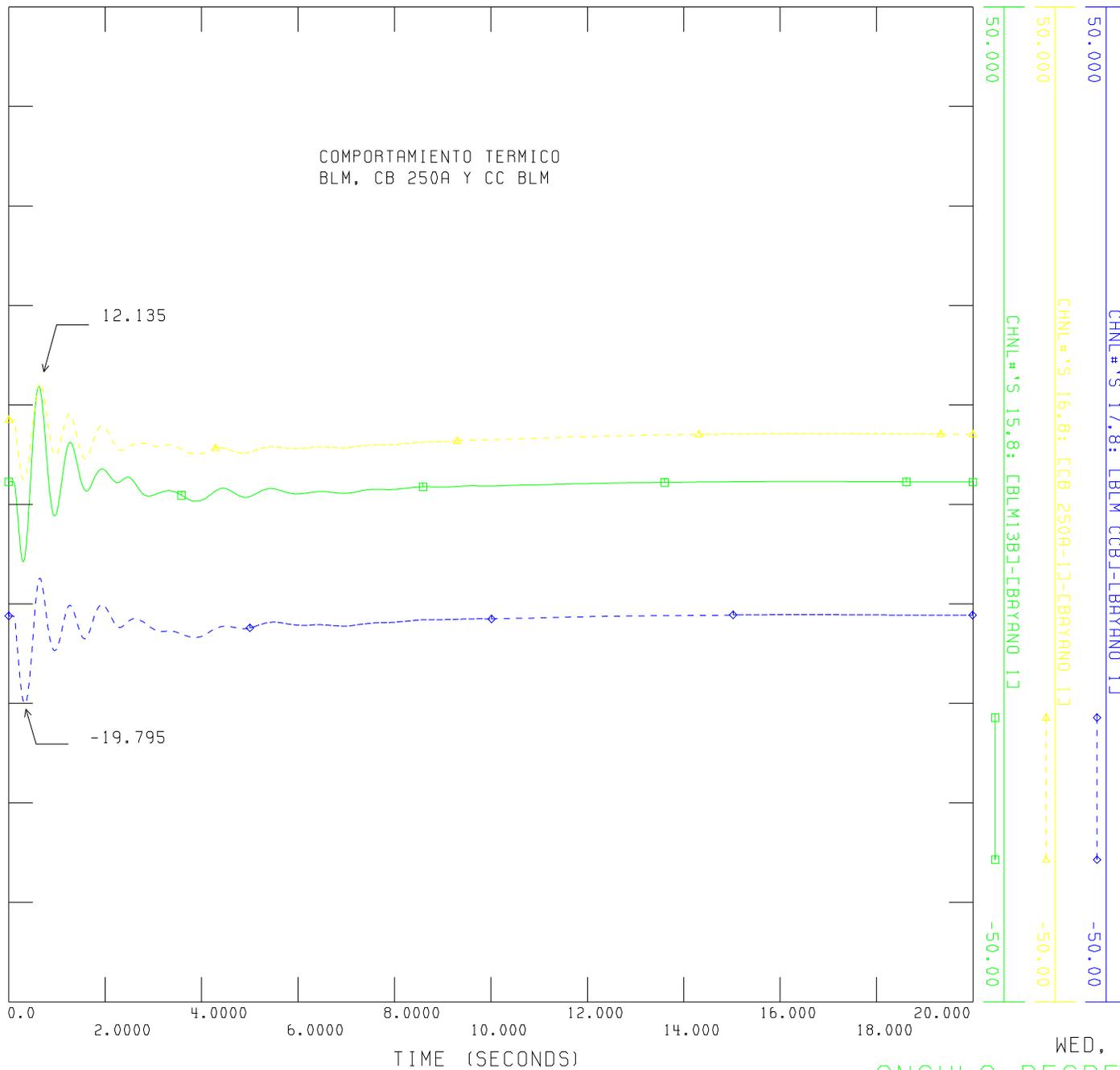
ANGULO RESPECTO A BAYANO

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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 CONT2.OUT



ANGULO RESPECTO A BAYANO

Handwritten signature

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS – VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**





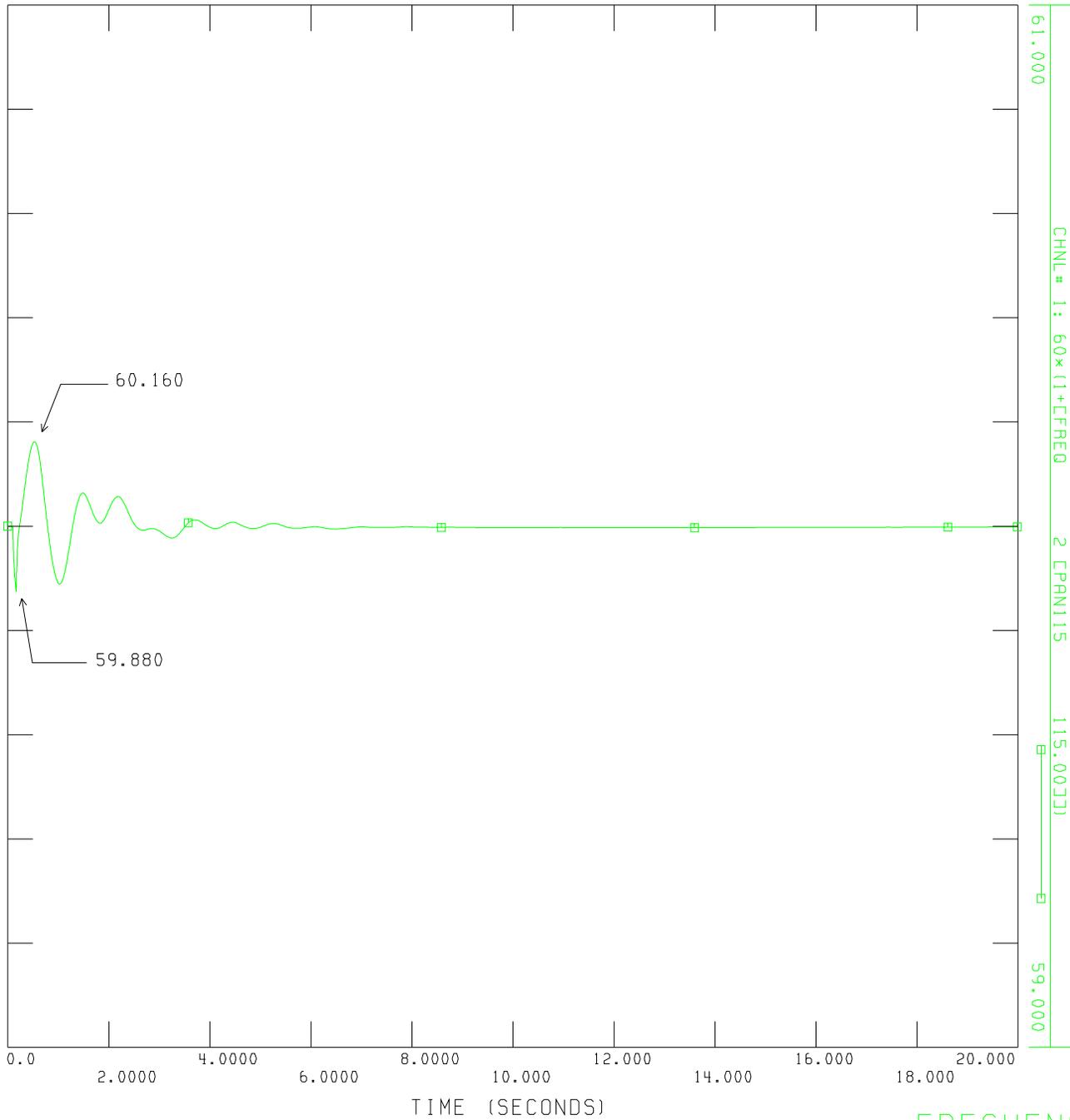
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

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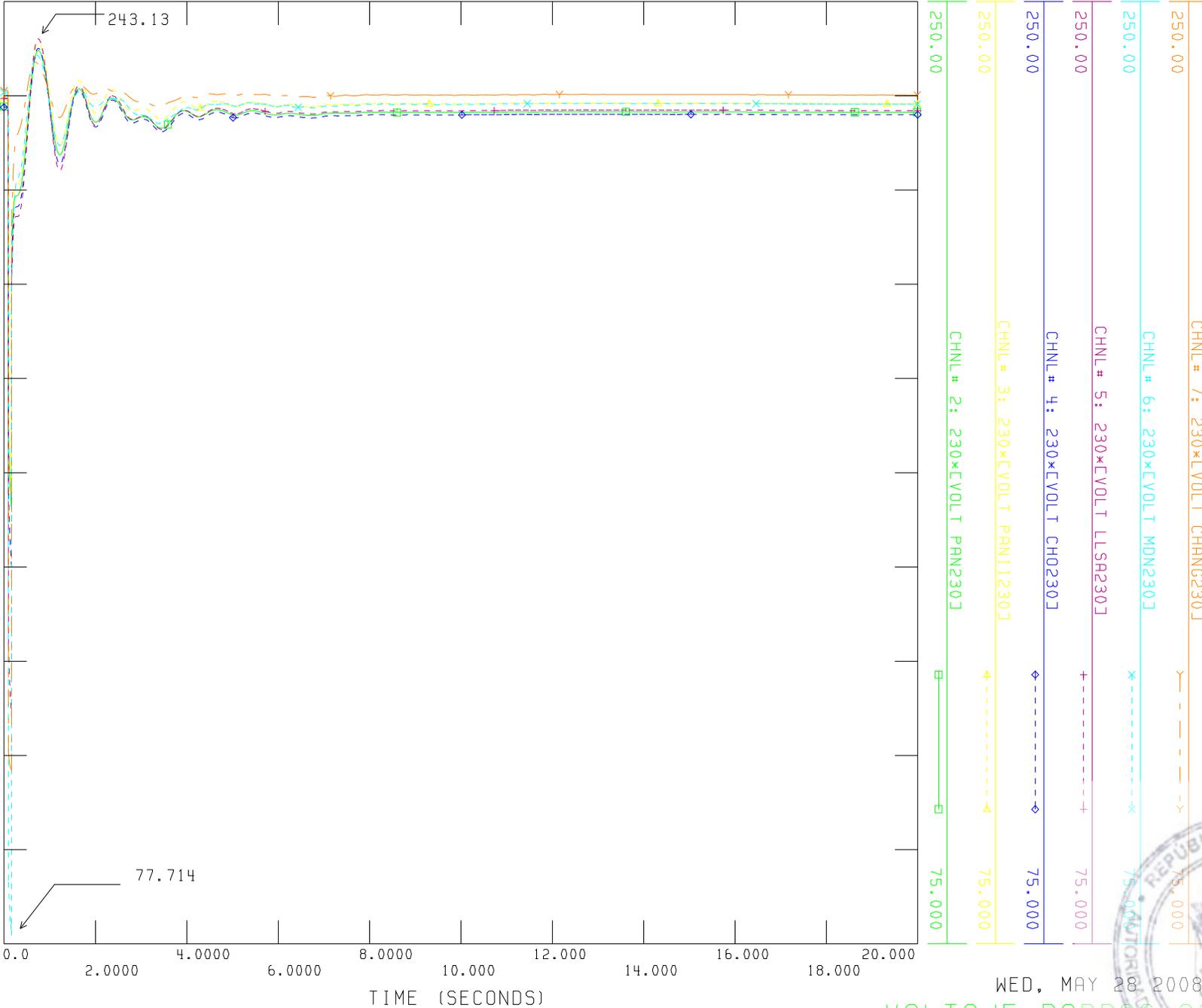


WED, MAY 28 2008 10:09

FRECUENCIA PANAMA 115 KV



FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 Cont3.out



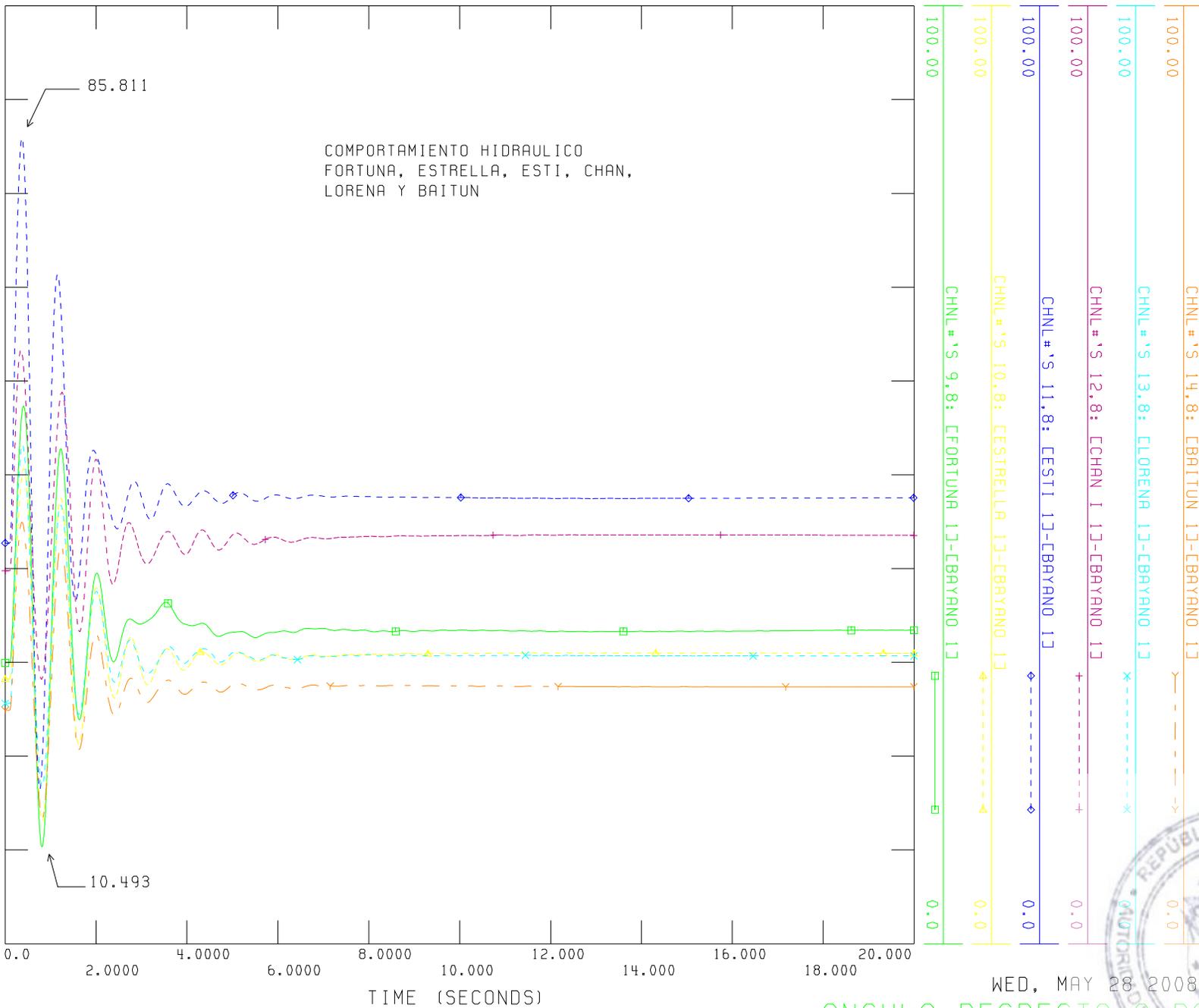
WED, MAY 28 2008 10:12
VOLTAGE BARRAS 230 KV

Handwritten signature or initials.



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 Confs.out



WED, MAY 28 2008 10:15

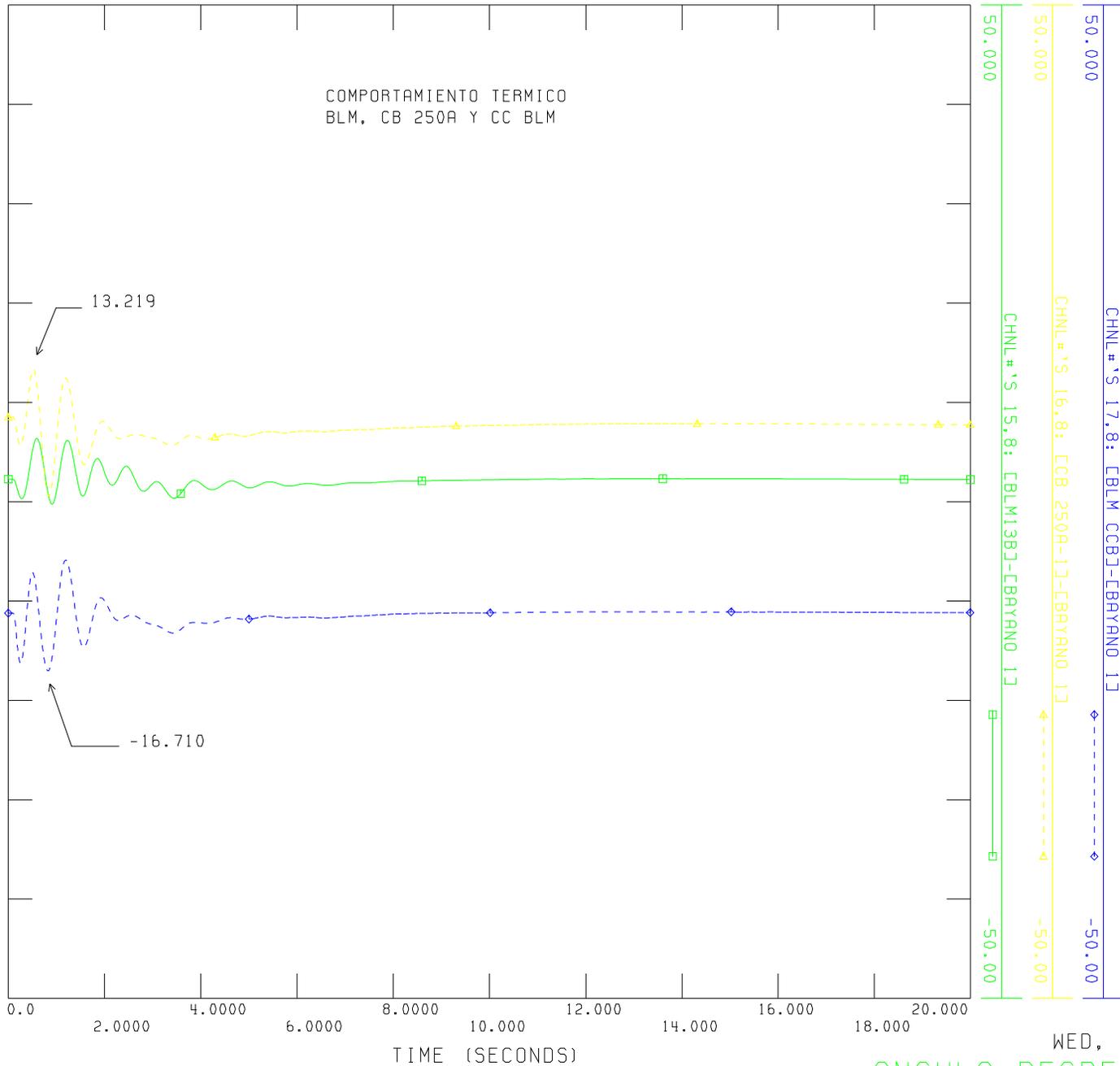
ANGULO RESPECTO A BAYANO





PLAN: EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2016 REGMHTTLR8

FILE: ... \VESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 Con B. out



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA – GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**



de



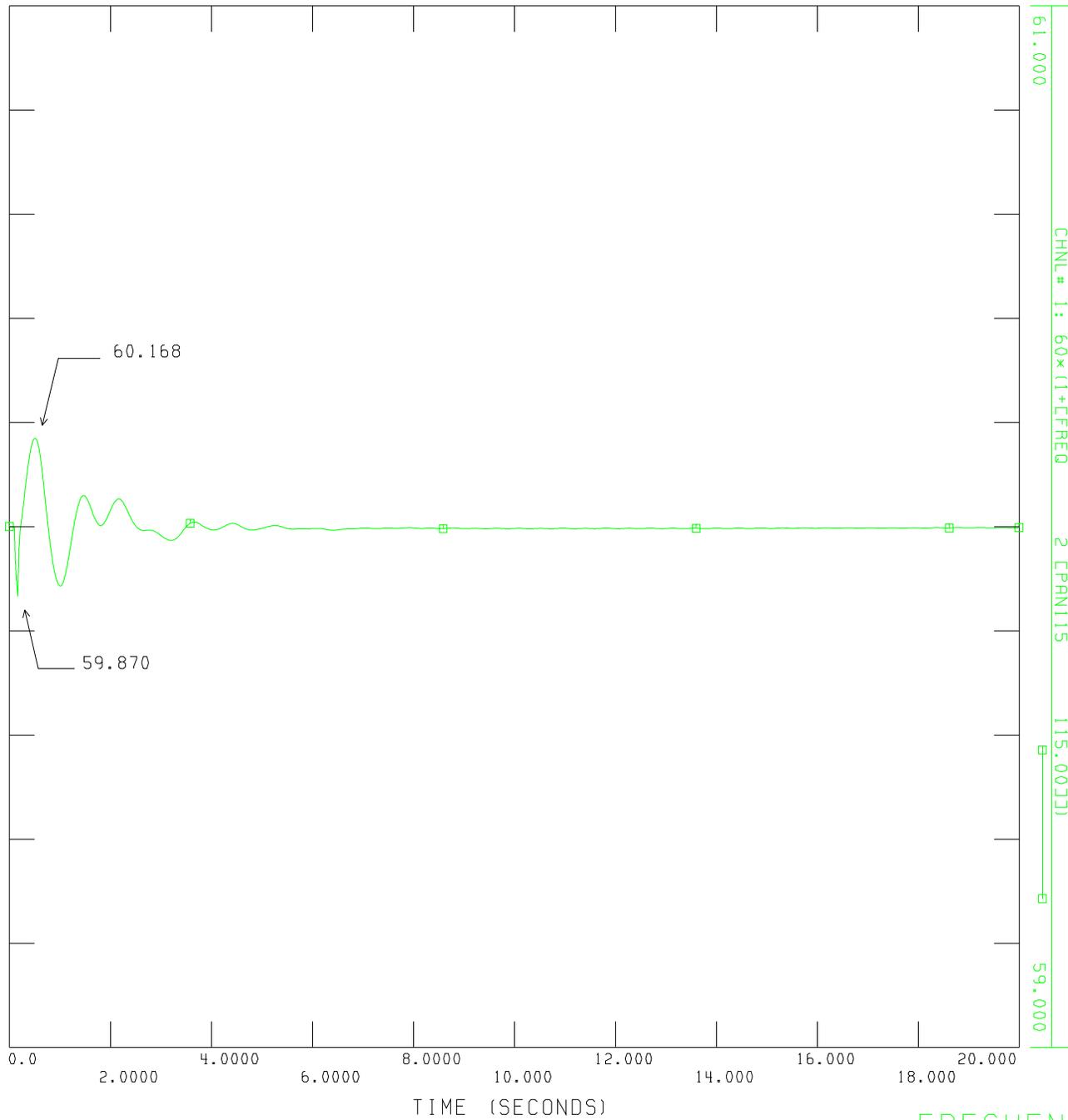
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

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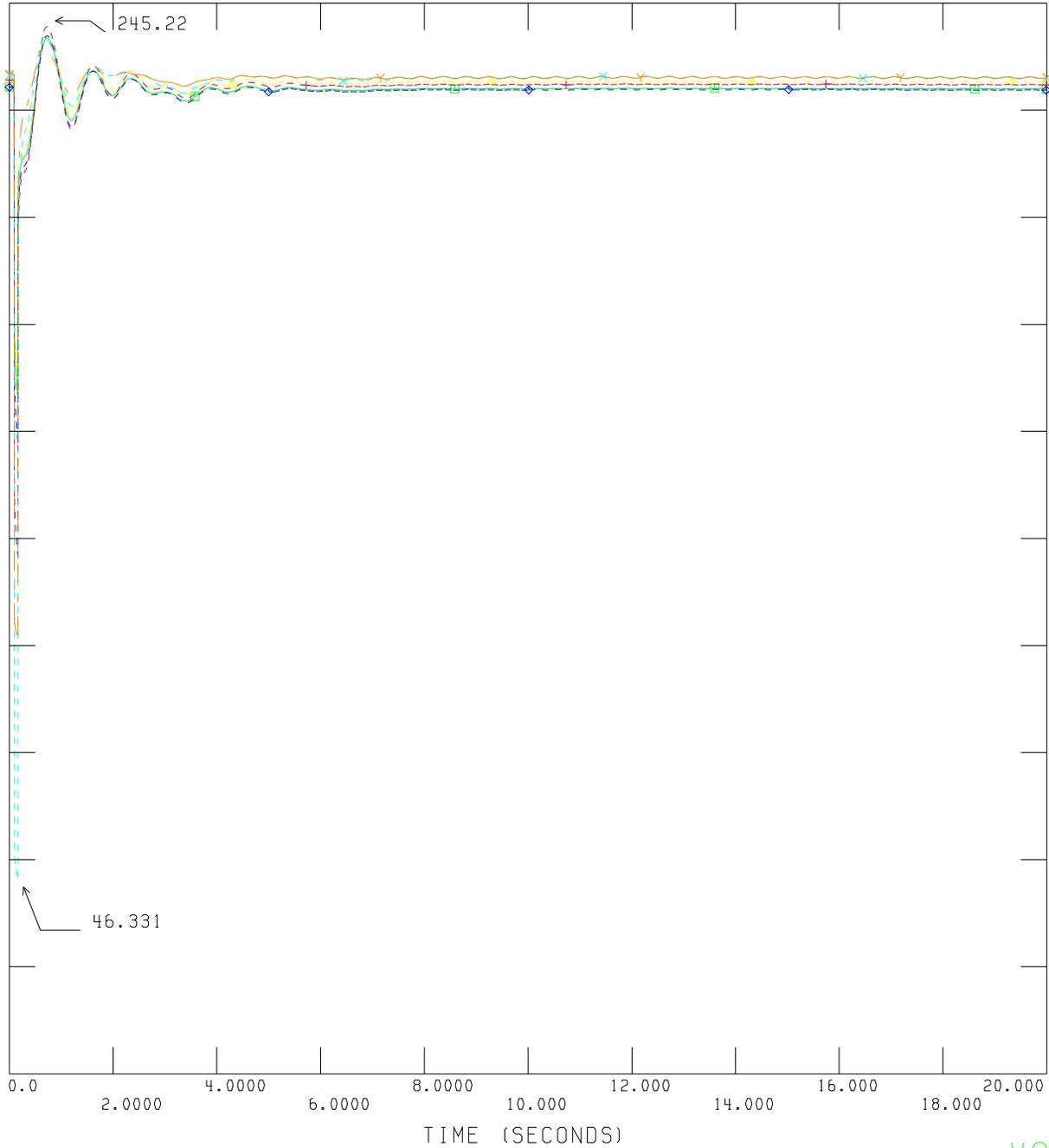
WED, MAY 28 2008 10:46

FRECUENCIA PANAMA 115 KV





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8



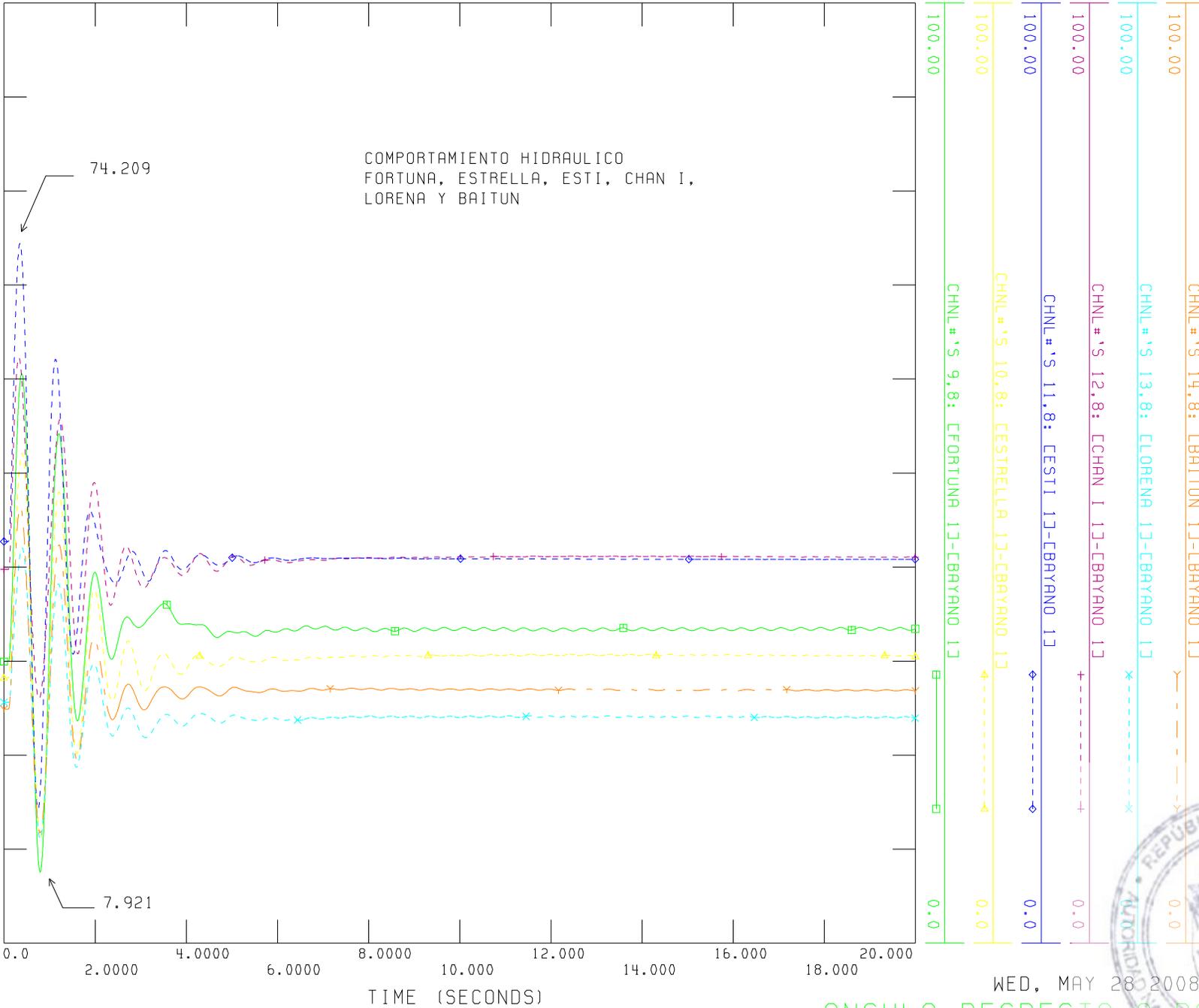
WED, MAY 28 2008 10:49
VOLTAJE BARRAS 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 Con th.out



WED, MAY 28 2008 10:52

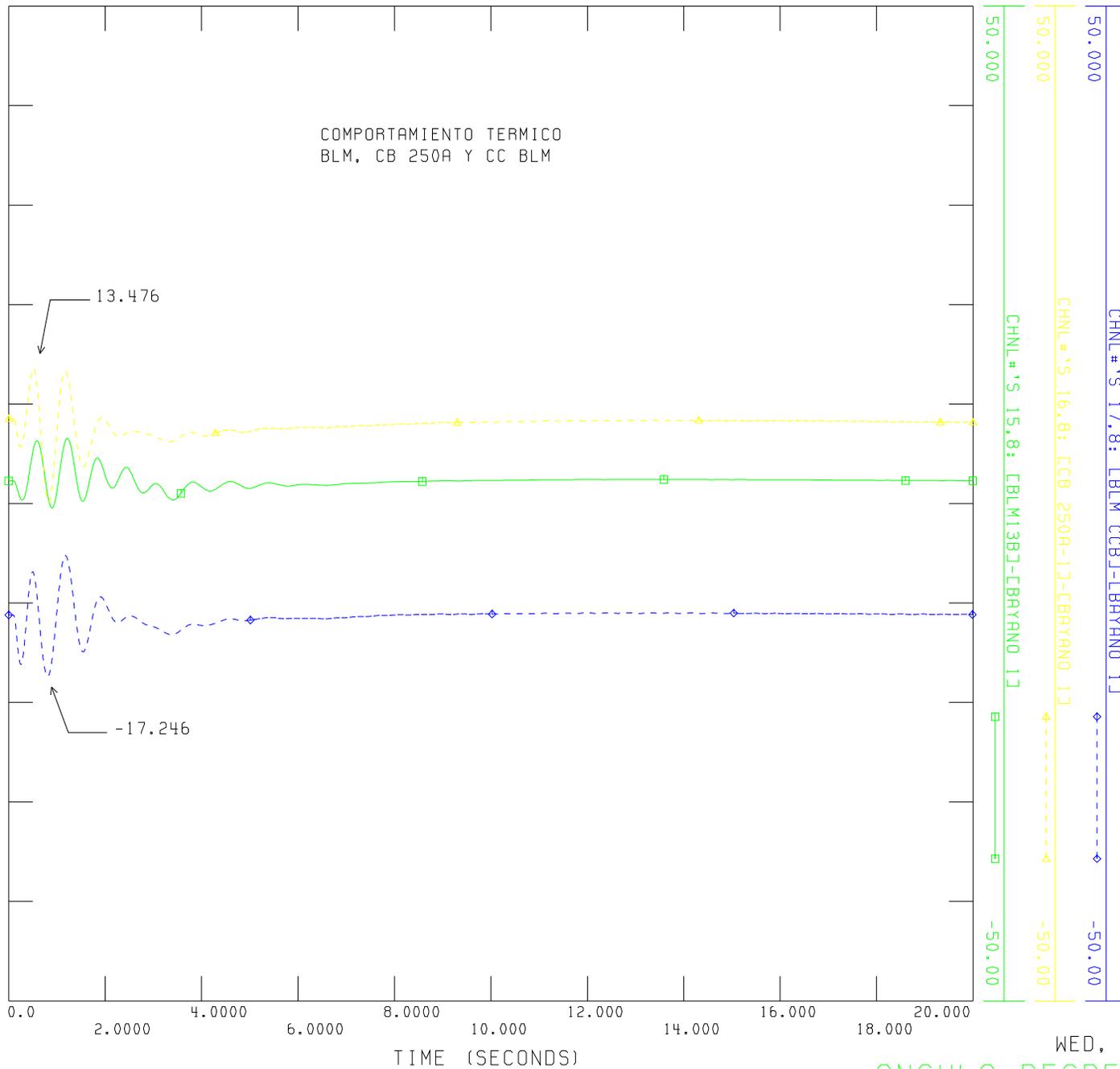
ANGULO RESPECTO A BAYANO

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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 CONT4.out



**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE – VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

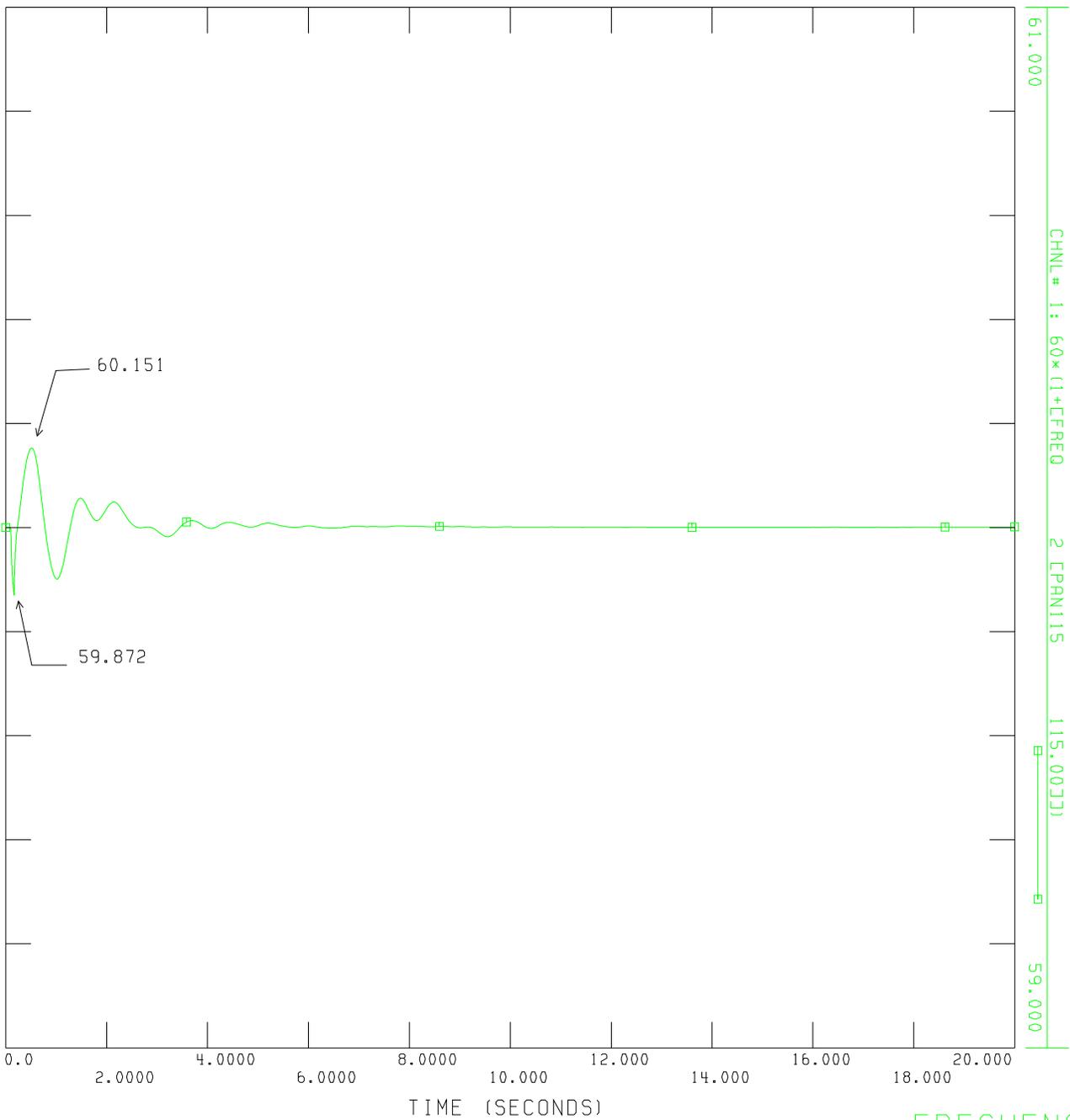


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 CONT5.OUT



WED, MAY 28 2008 11:01

FRECUENCIA PANAMA 115 KV

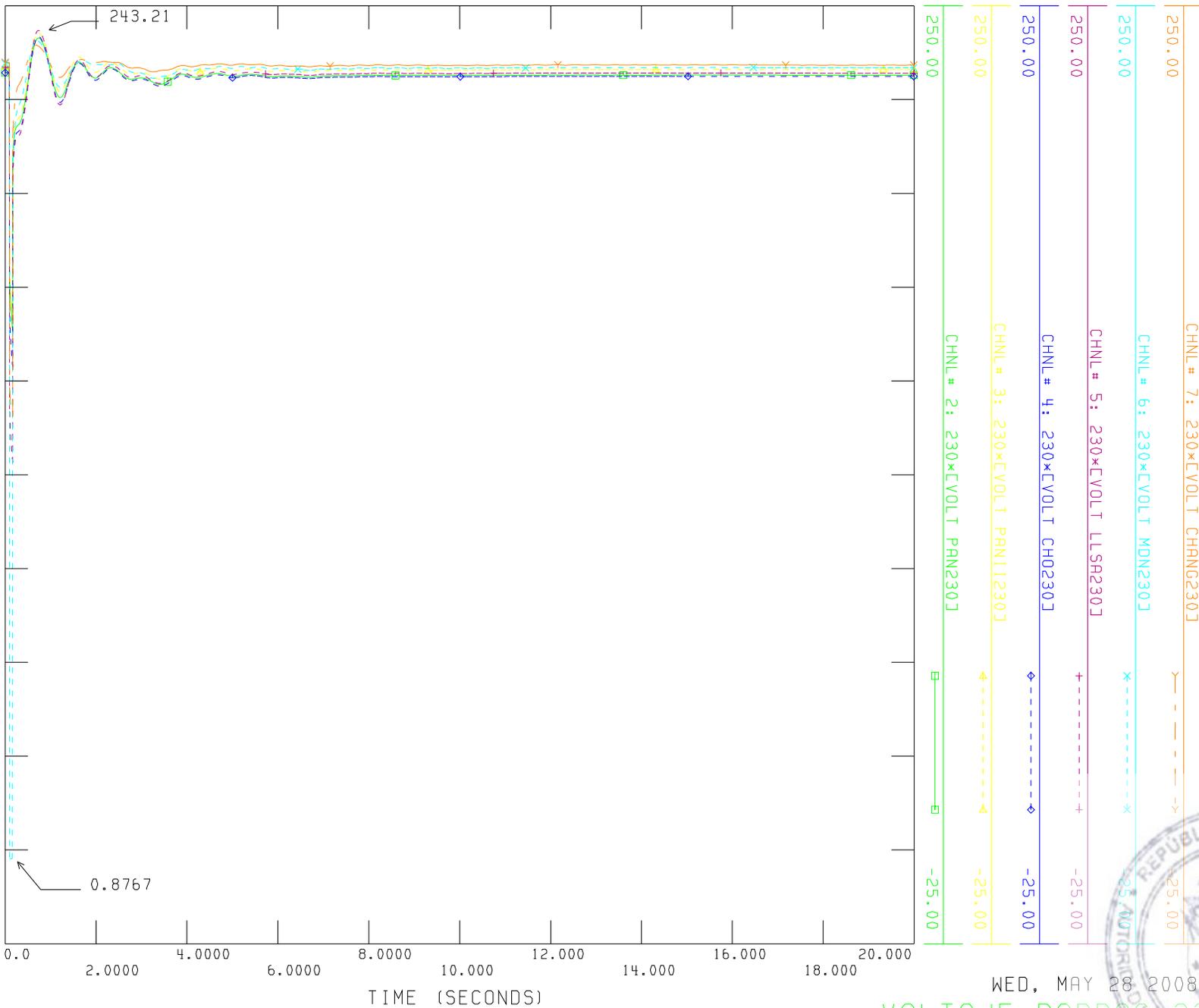


Handwritten signature or initials



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 CONT5.out



WED, MAY 28 2008 11:05

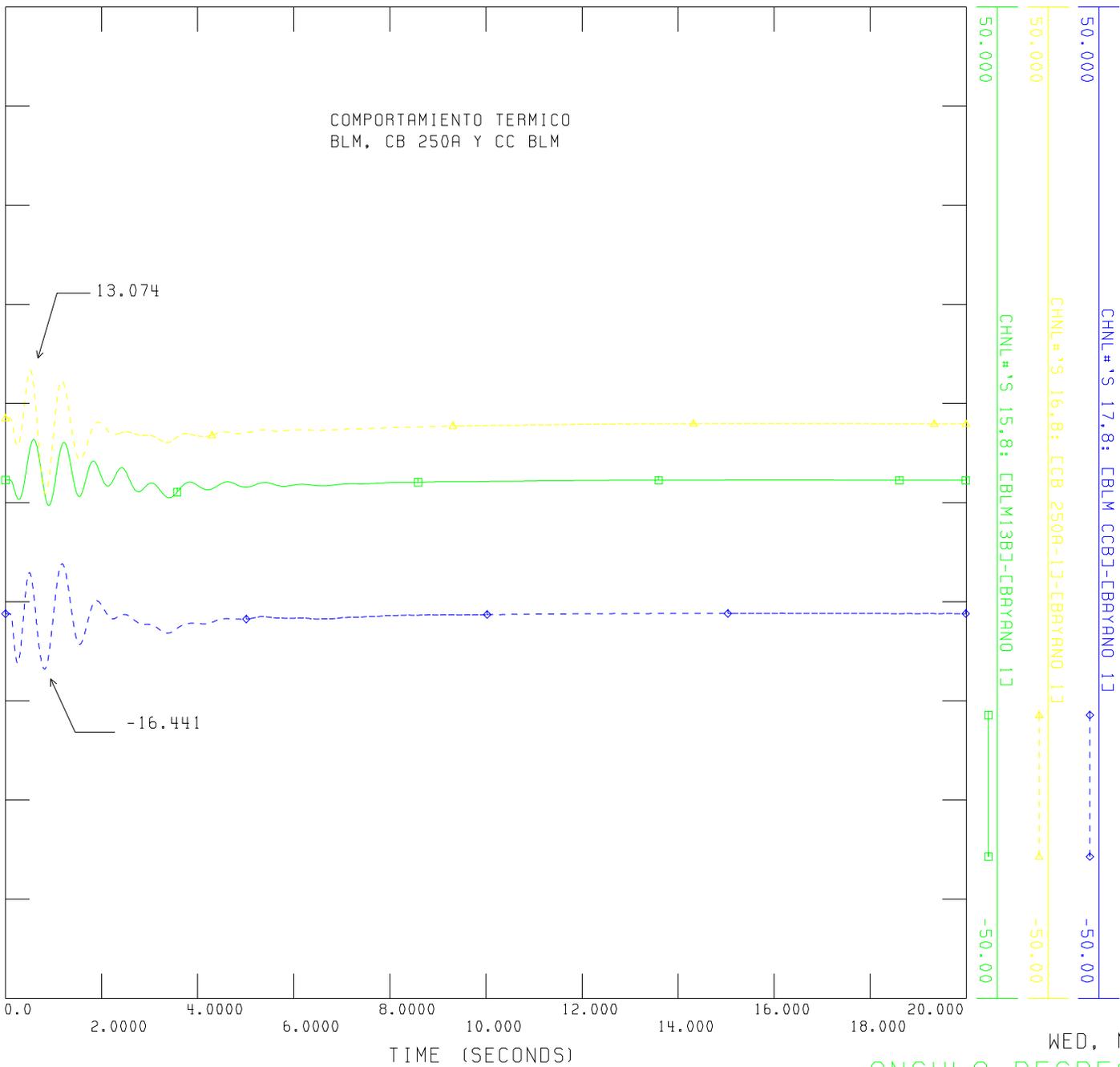
VOLTAJE BARRAS 230 KV

Handwritten signature



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

FILE: ... \ESTABILIDAD 2016\2016PE_ModMax-Inv-REGMHTTLR8 CONTS. OUT



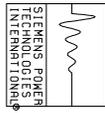
WED, MAY 28 2008 11:10

ANGULO RESPECTO A BAYANO

**AÑO 2016 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA - PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

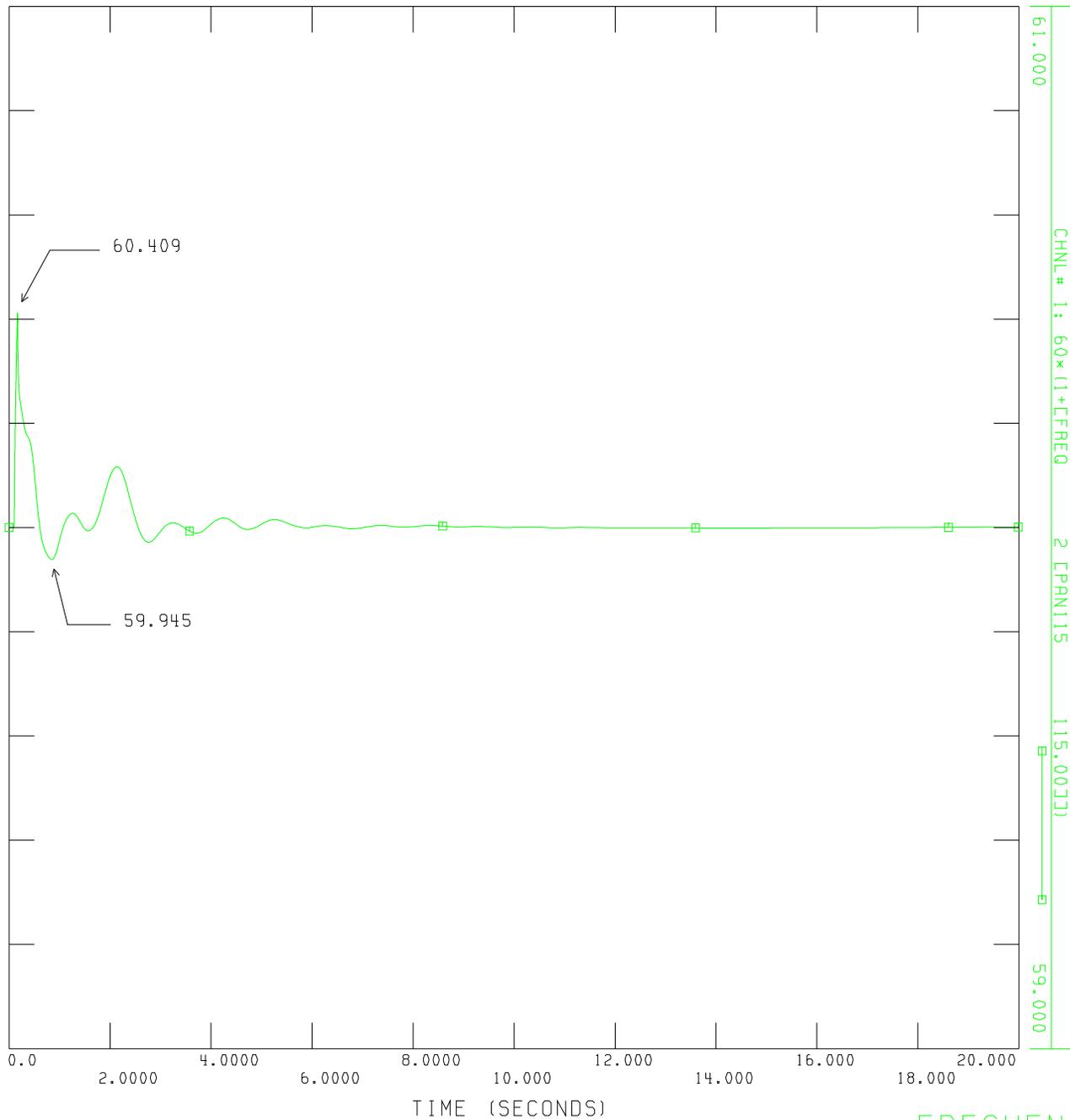


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2016 REGMHTTLR8

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WED, MAY 28 2008 11:23

FRECUENCIA PANAMA 115 KV

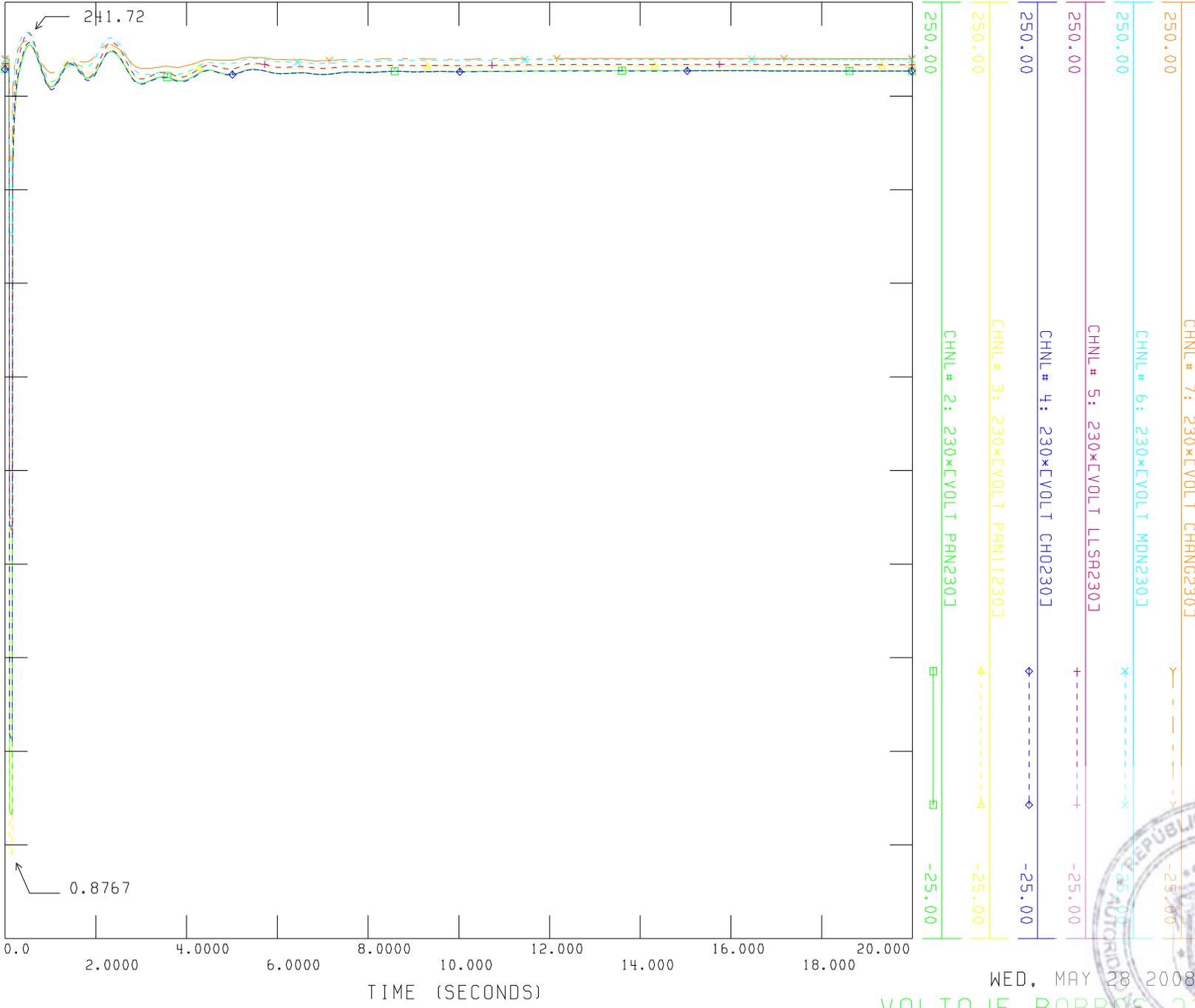


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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WED, MAY 28 2008 11:26

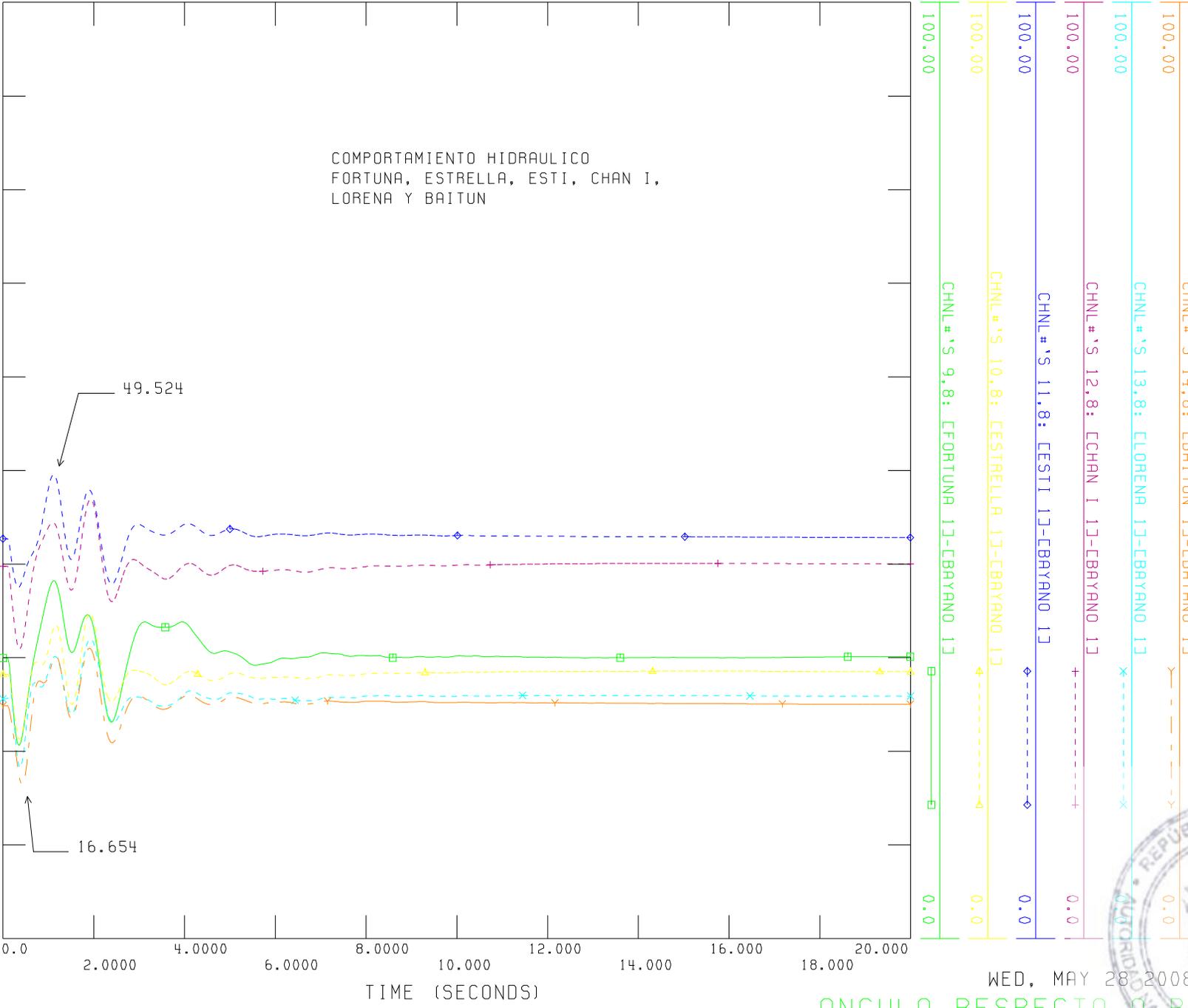
VOLTAJE BARRAS 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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WED, MAY 28 2008 11:29

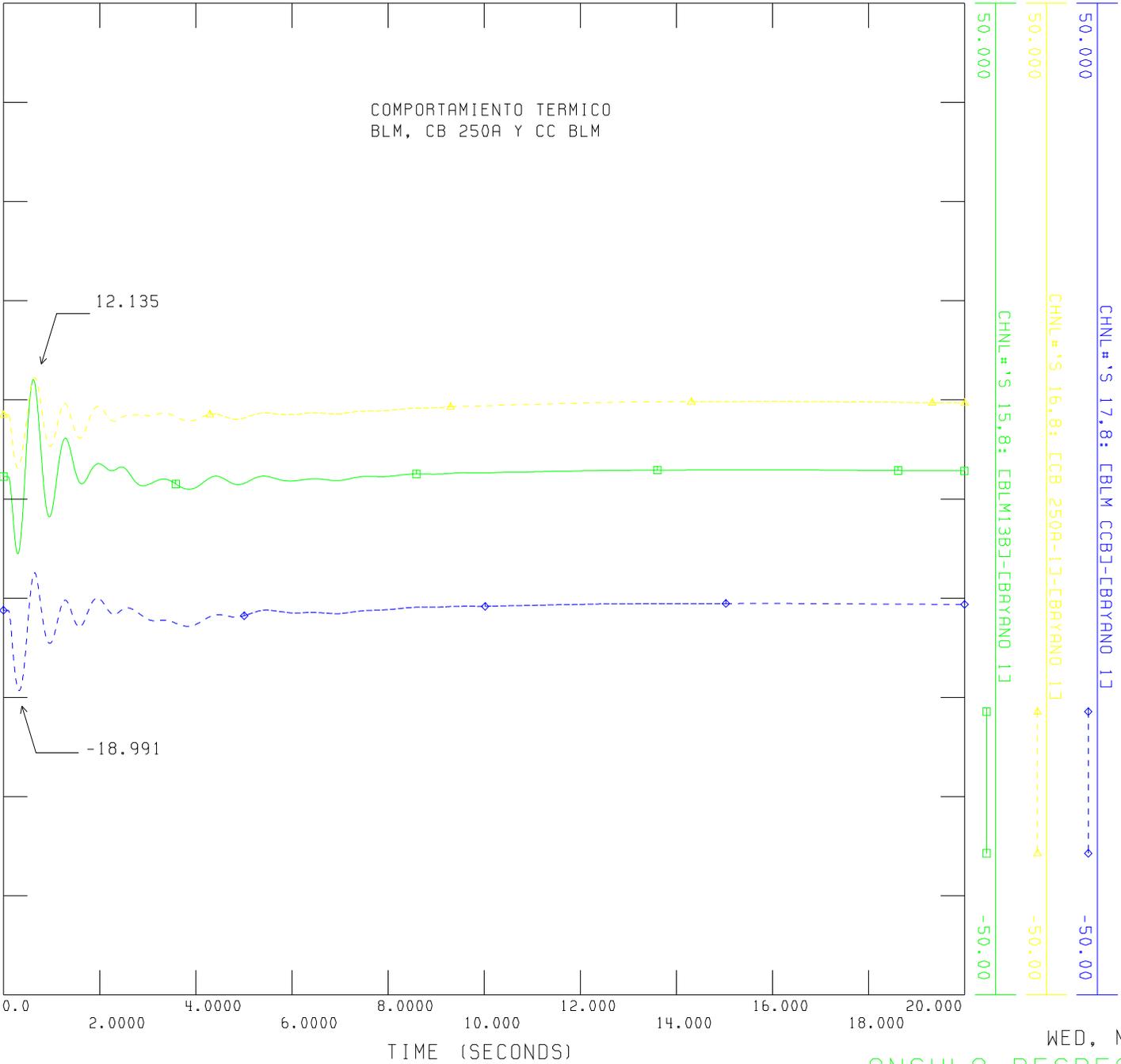
ANGULO RESPECTO A BAYANO

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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ANGULO RESPECTO A BAYANO

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**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA - PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1 REGMHTCB8**



de



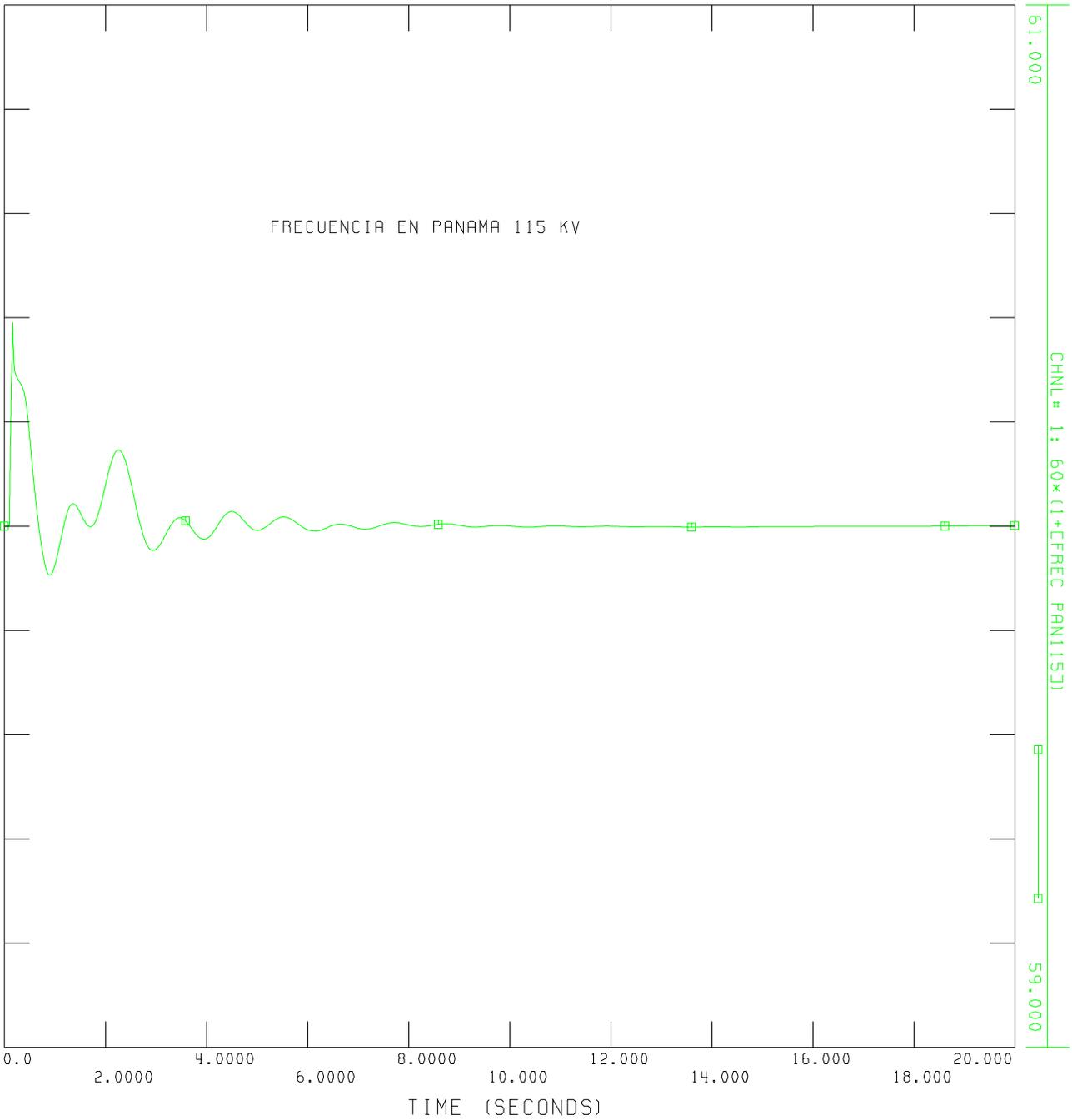
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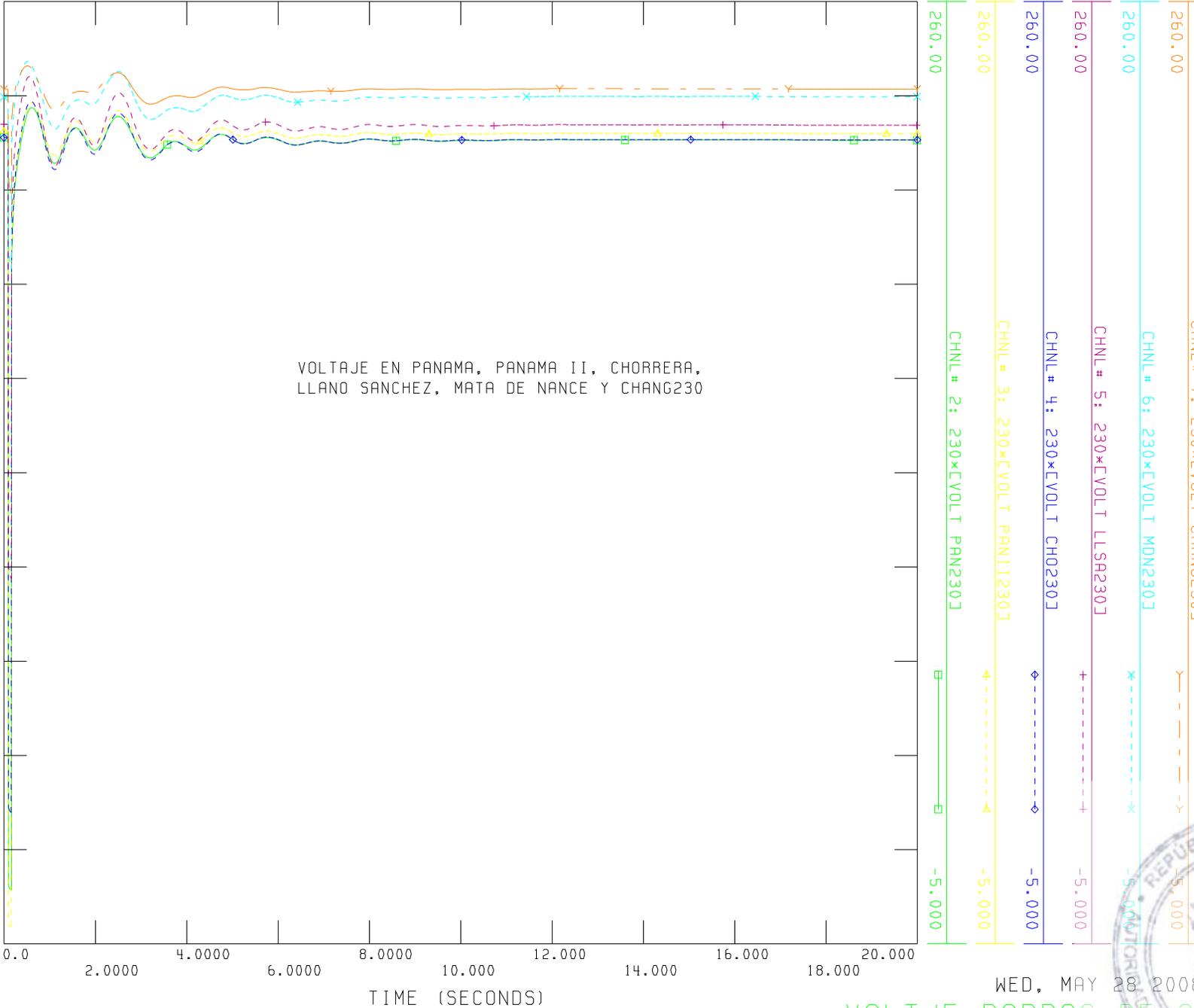
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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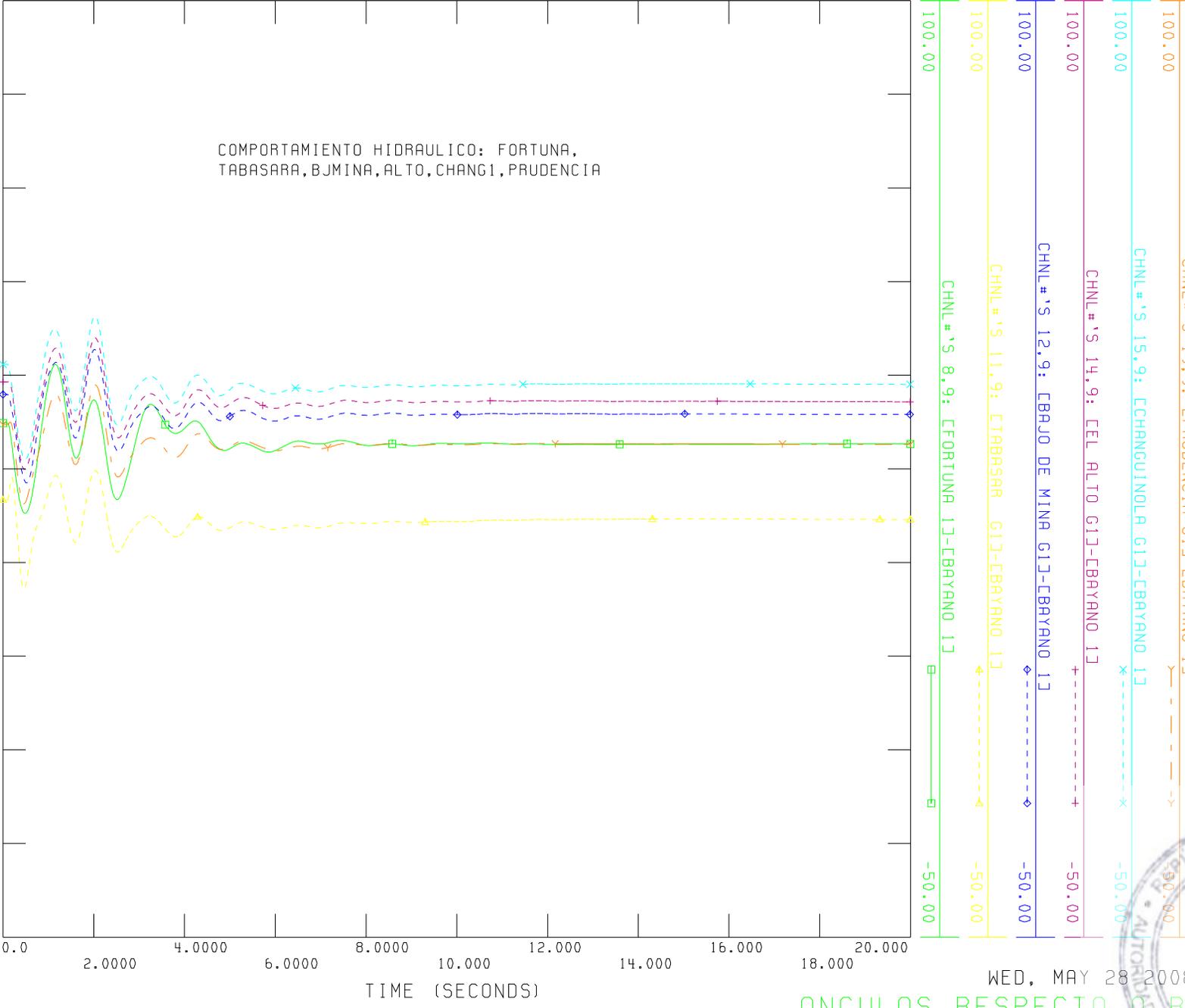
VOLTJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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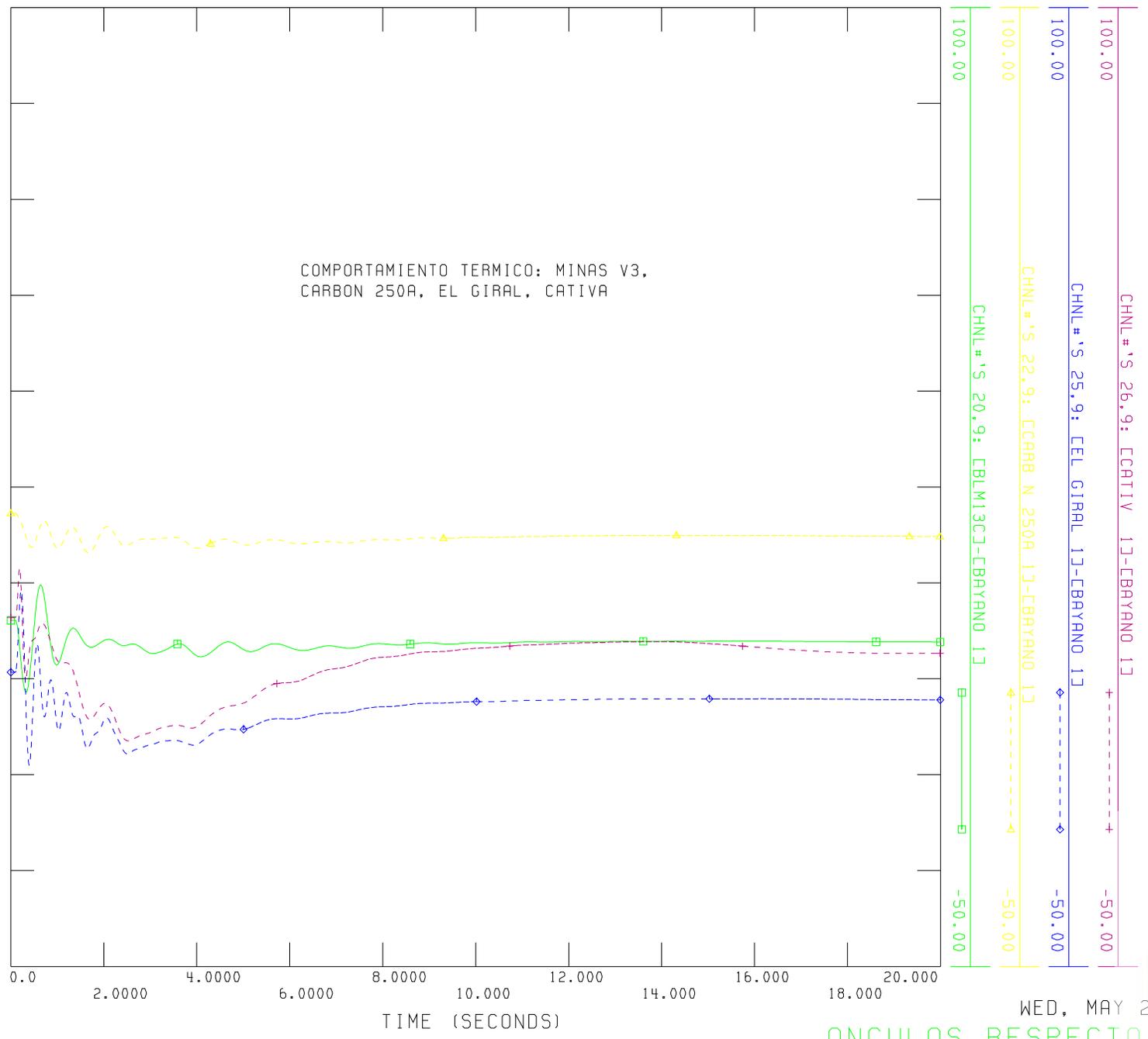
ANGULOS RESPECTO A BAYANO





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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ANGULOS RESPECTO A BAYANO

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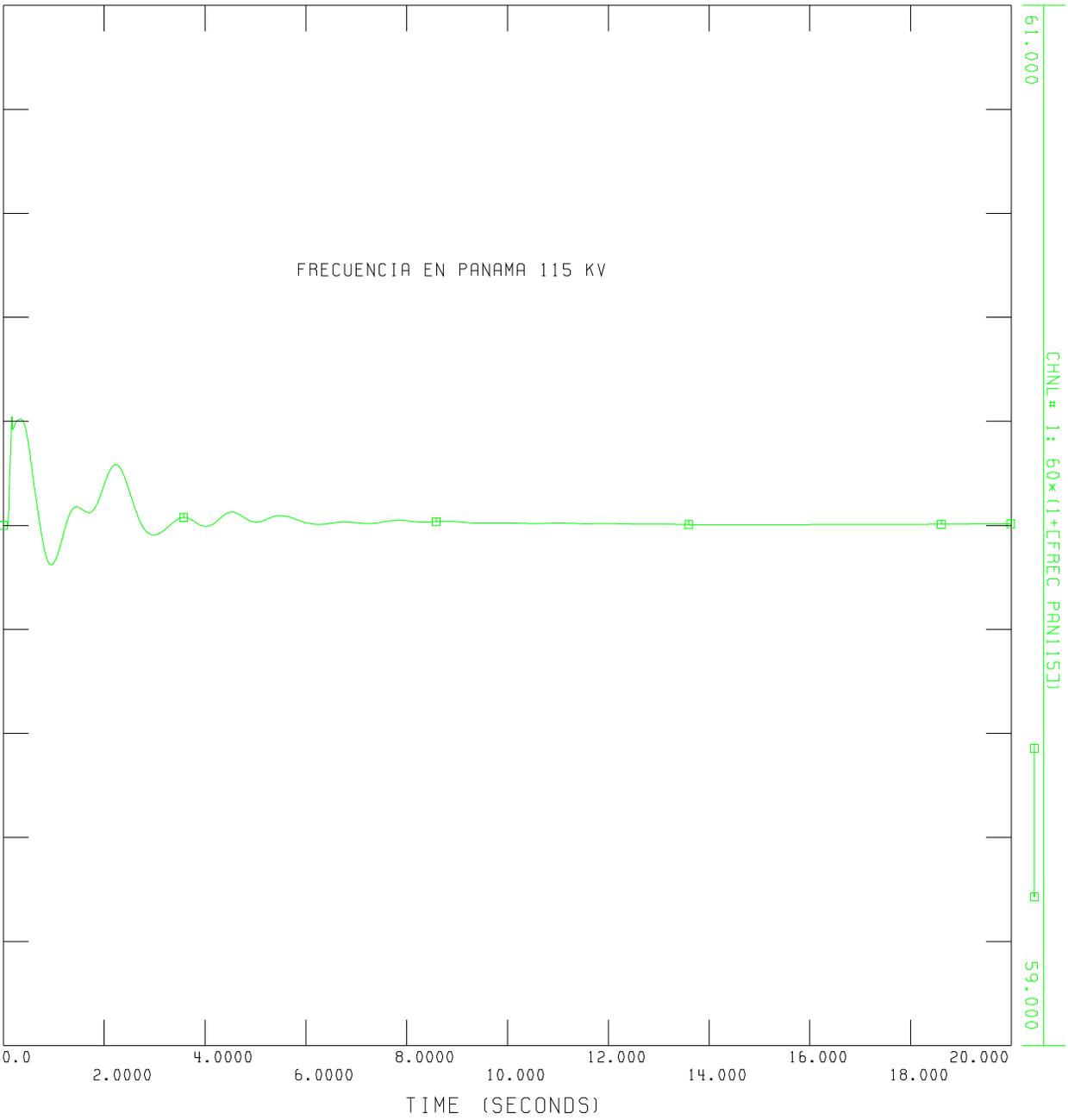
**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ - CHORRERA
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**





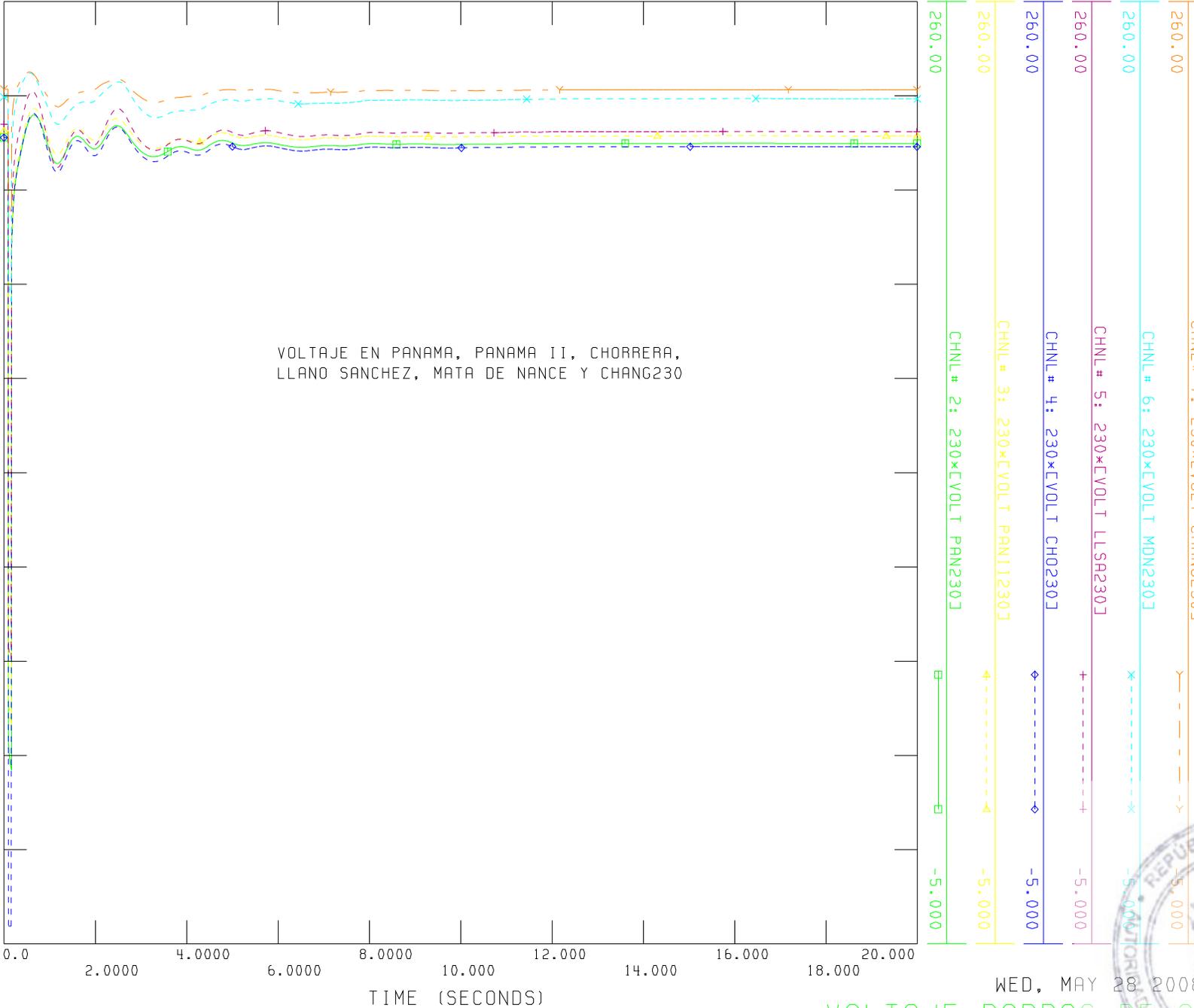
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A 0 2021

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WED, MAY 28 2008 16:55
FRECUENCIA EN HZ

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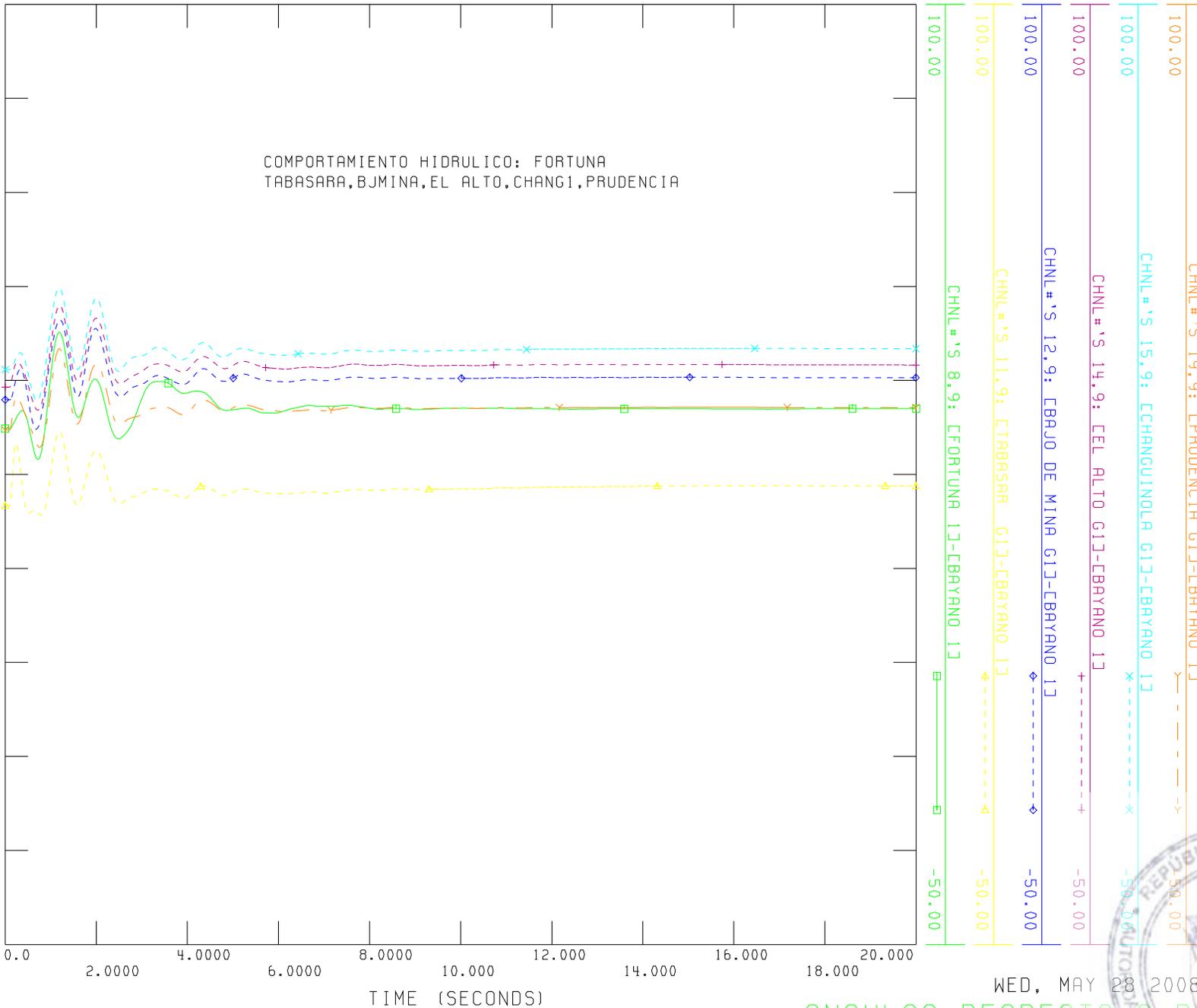
VOLTAJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
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WED, MAY 28 2008 17:00

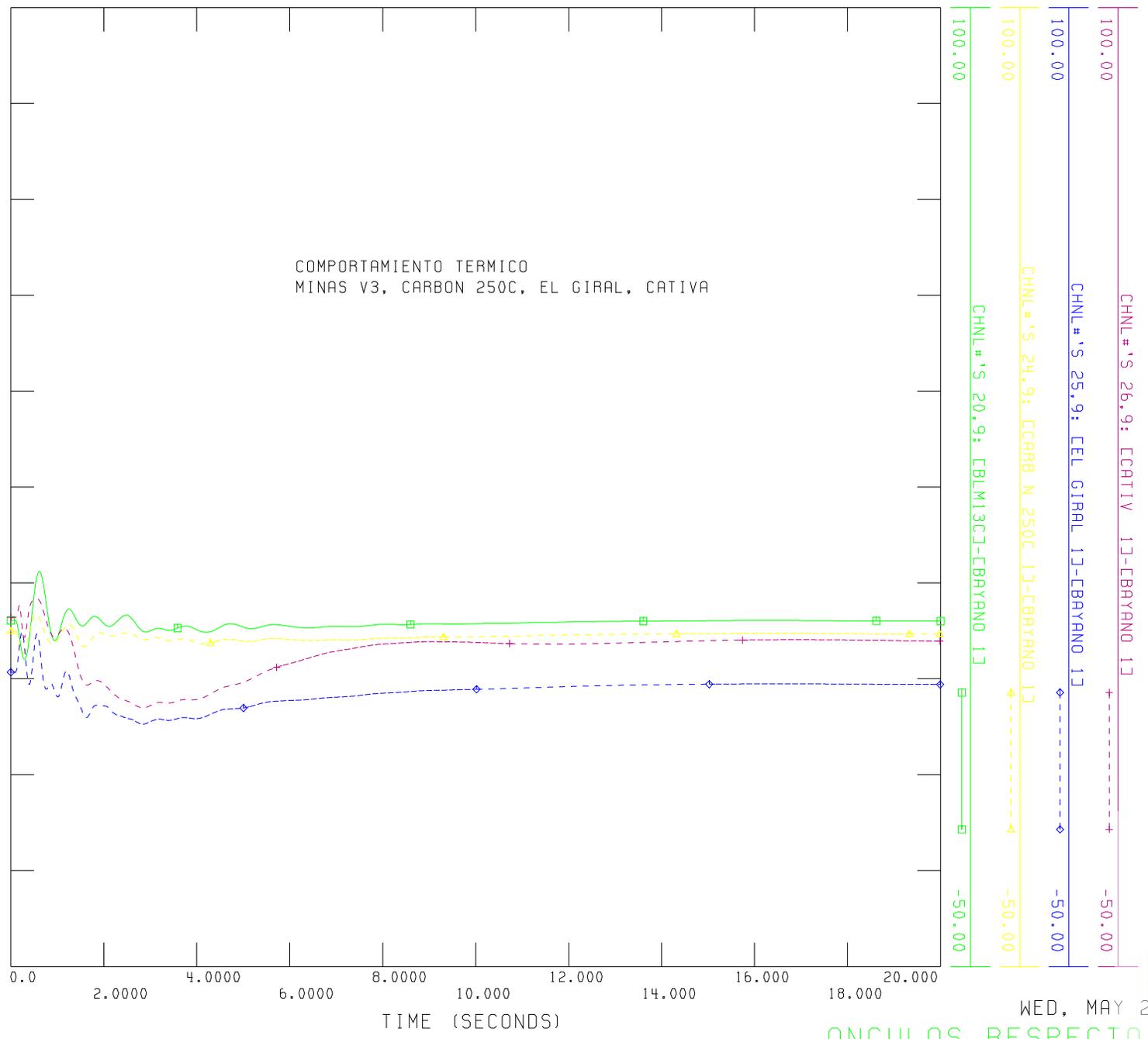
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WED, MAY 28 2008 17:03

ANGULOS RESPECTO A BAYANO

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO**



de



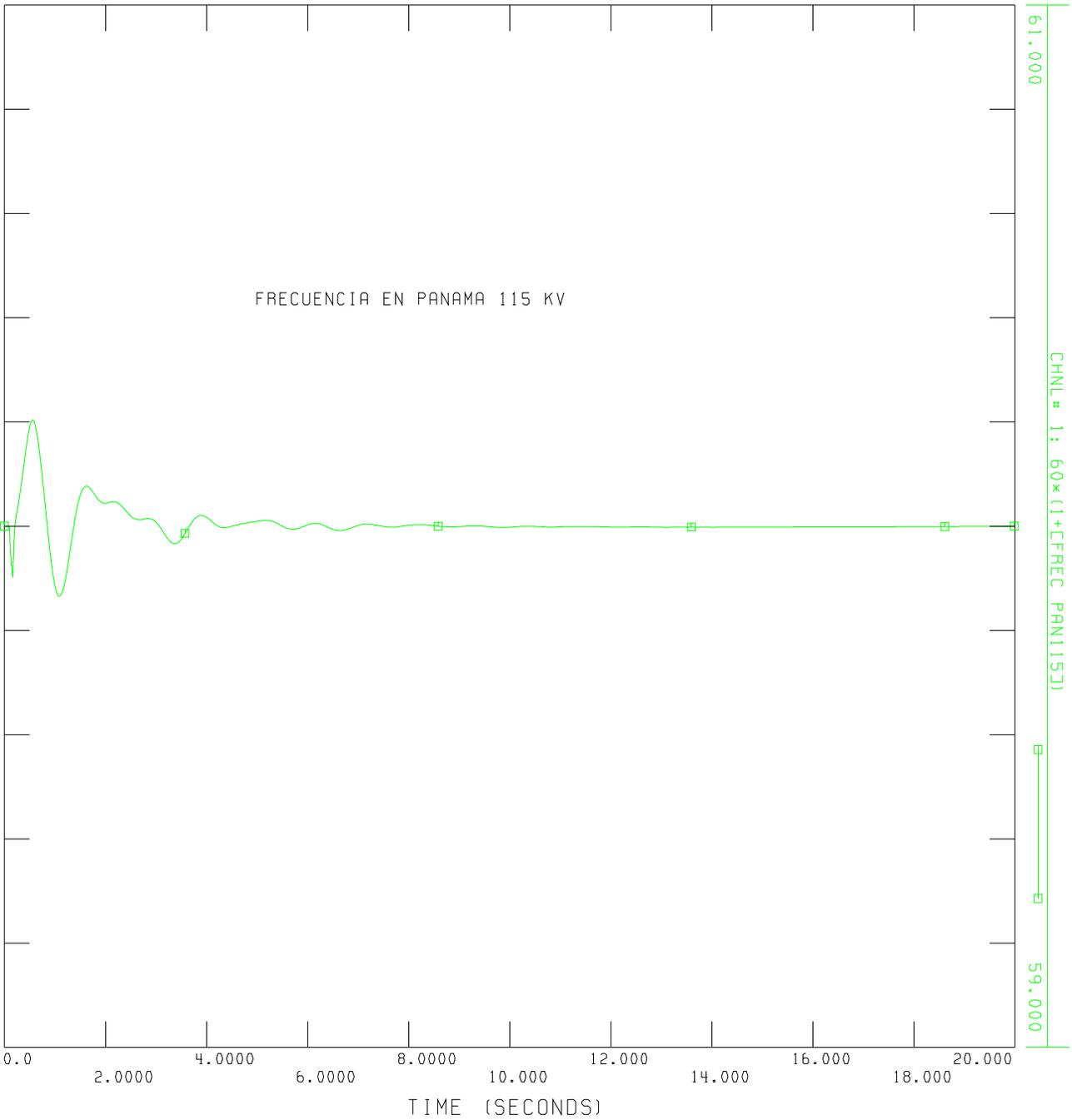
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R 0 2021

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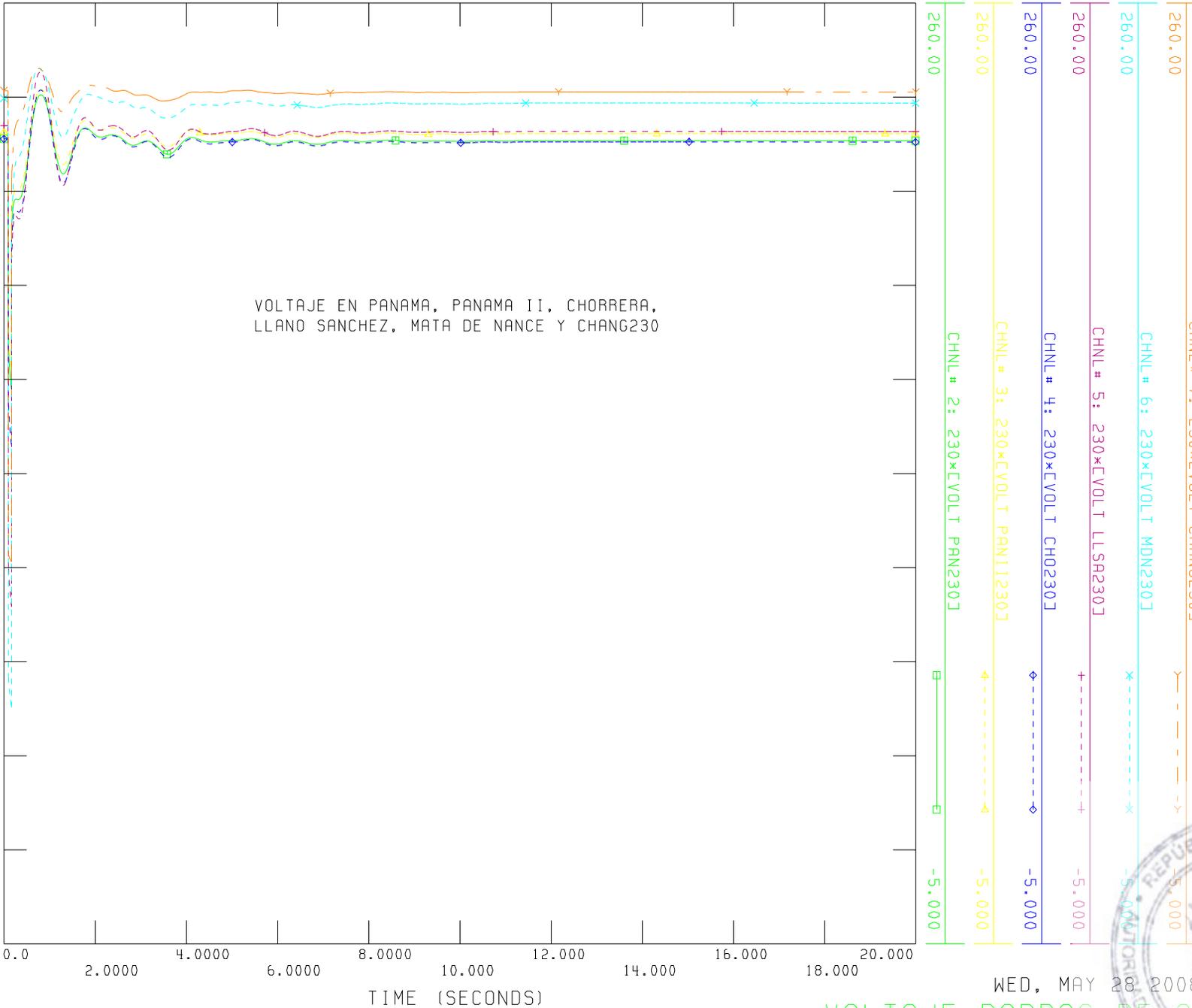


WED, MAY 28 2008 13:51

FRECUENCIA EN HZ



re



WED, MAY 28 2008 14:06

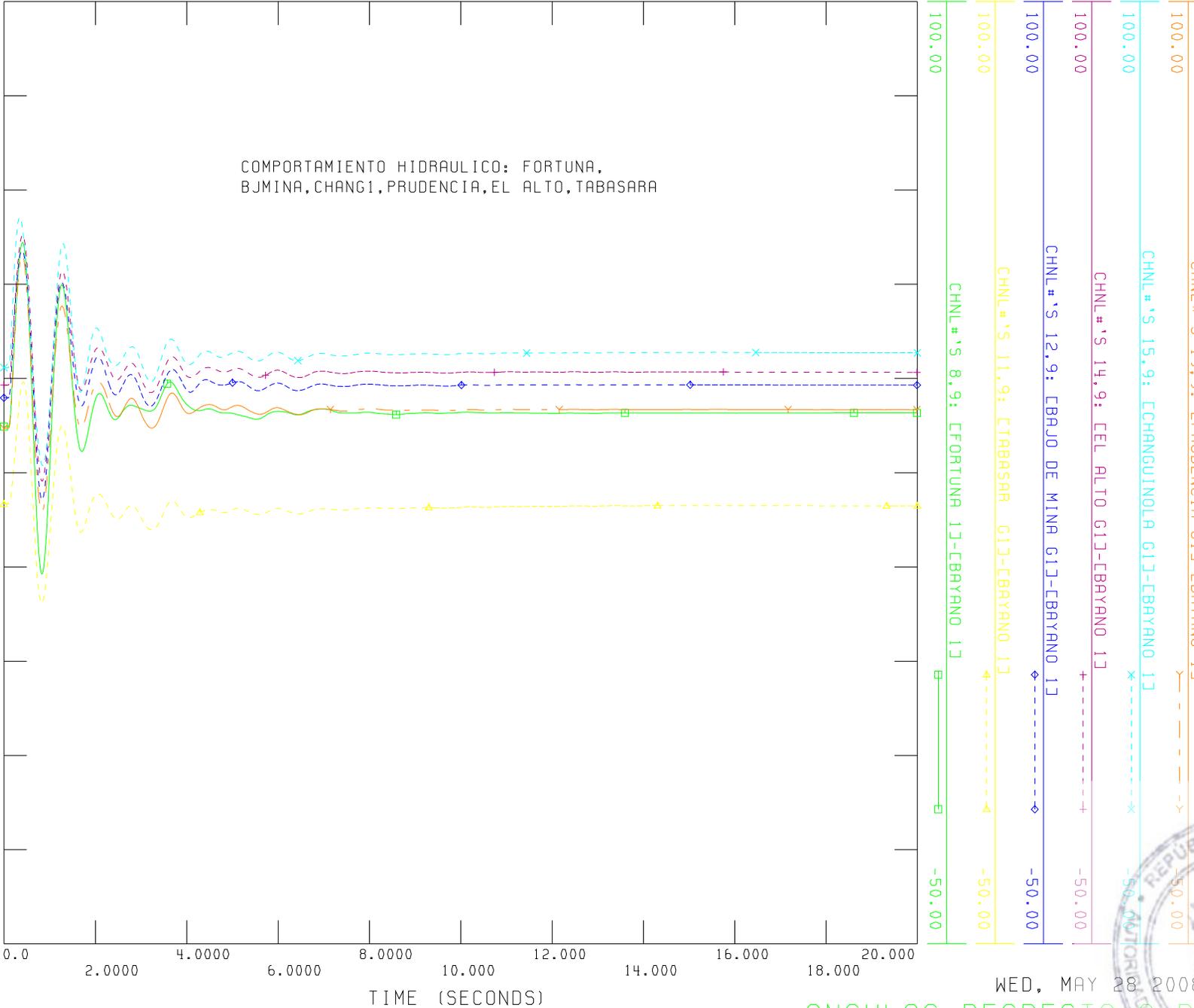
VOLTAJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021

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WED, MAY 28 2008 14:10

ANGULOS RESPECTO A BAYANO

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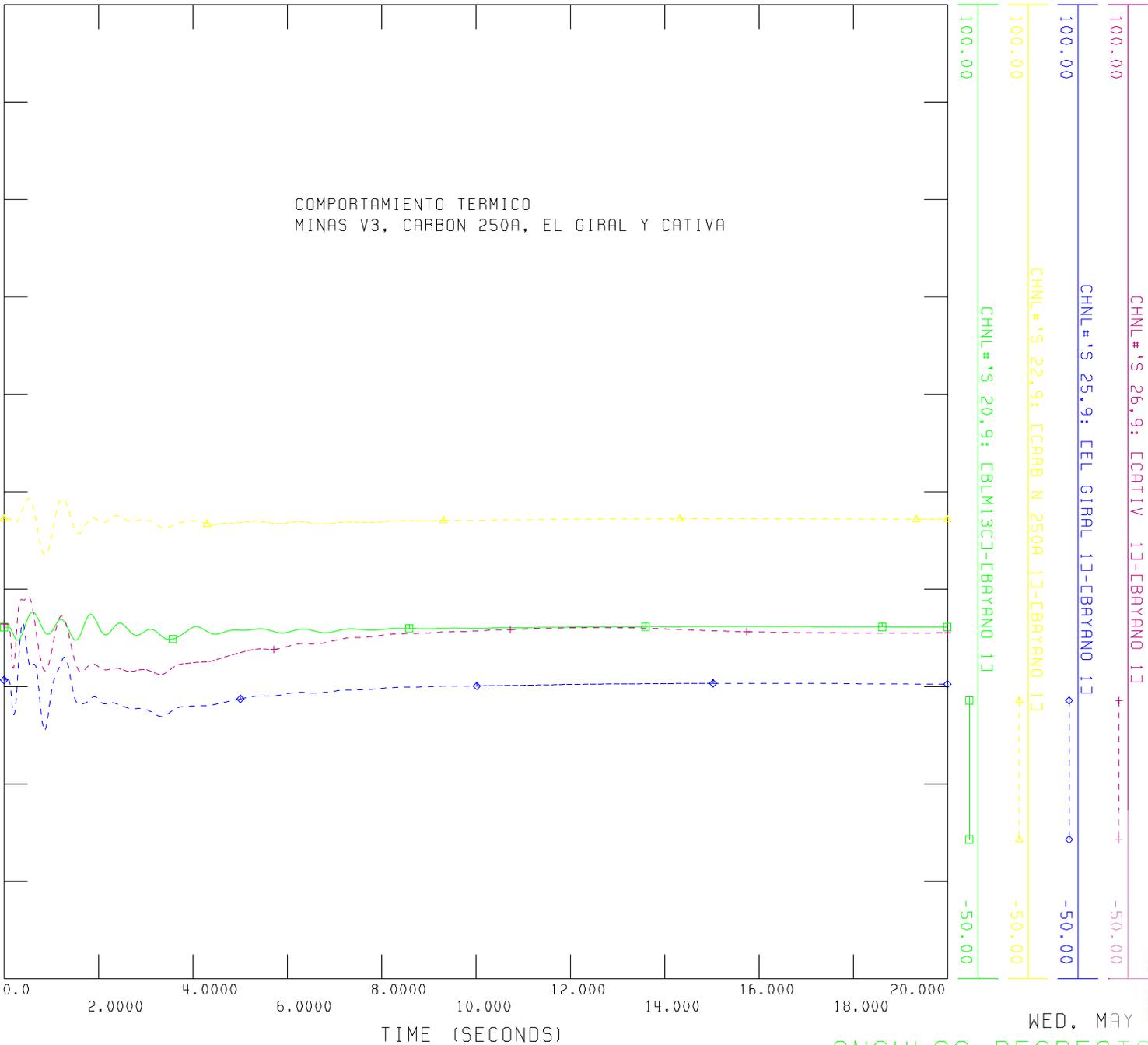
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 R 0 2021

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WED, MAY 28 2008 14:15

ANGULOS RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA - GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**



de

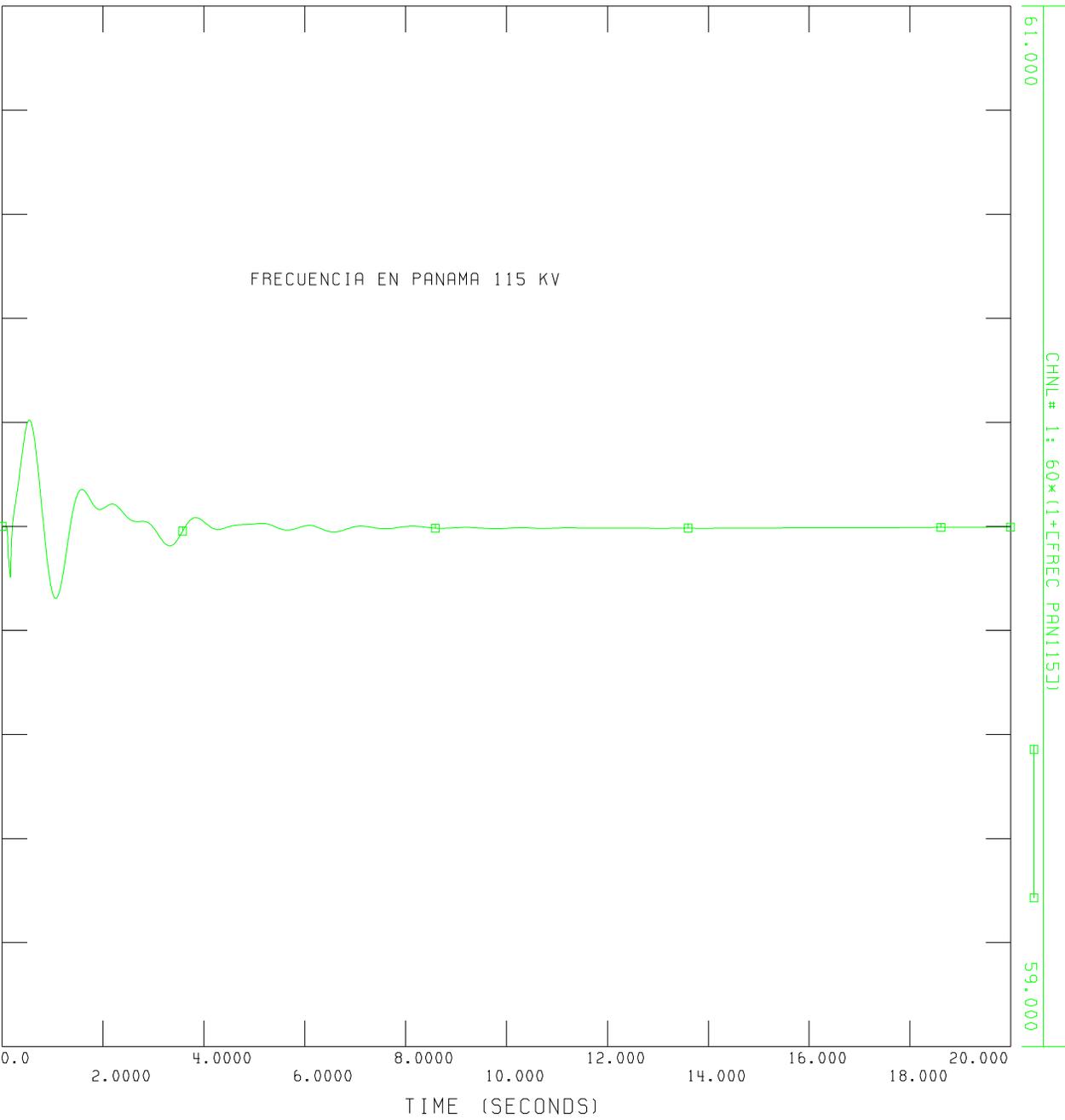


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WED, MAY 28 2008 14:29
FRECUENCIA EN HZ

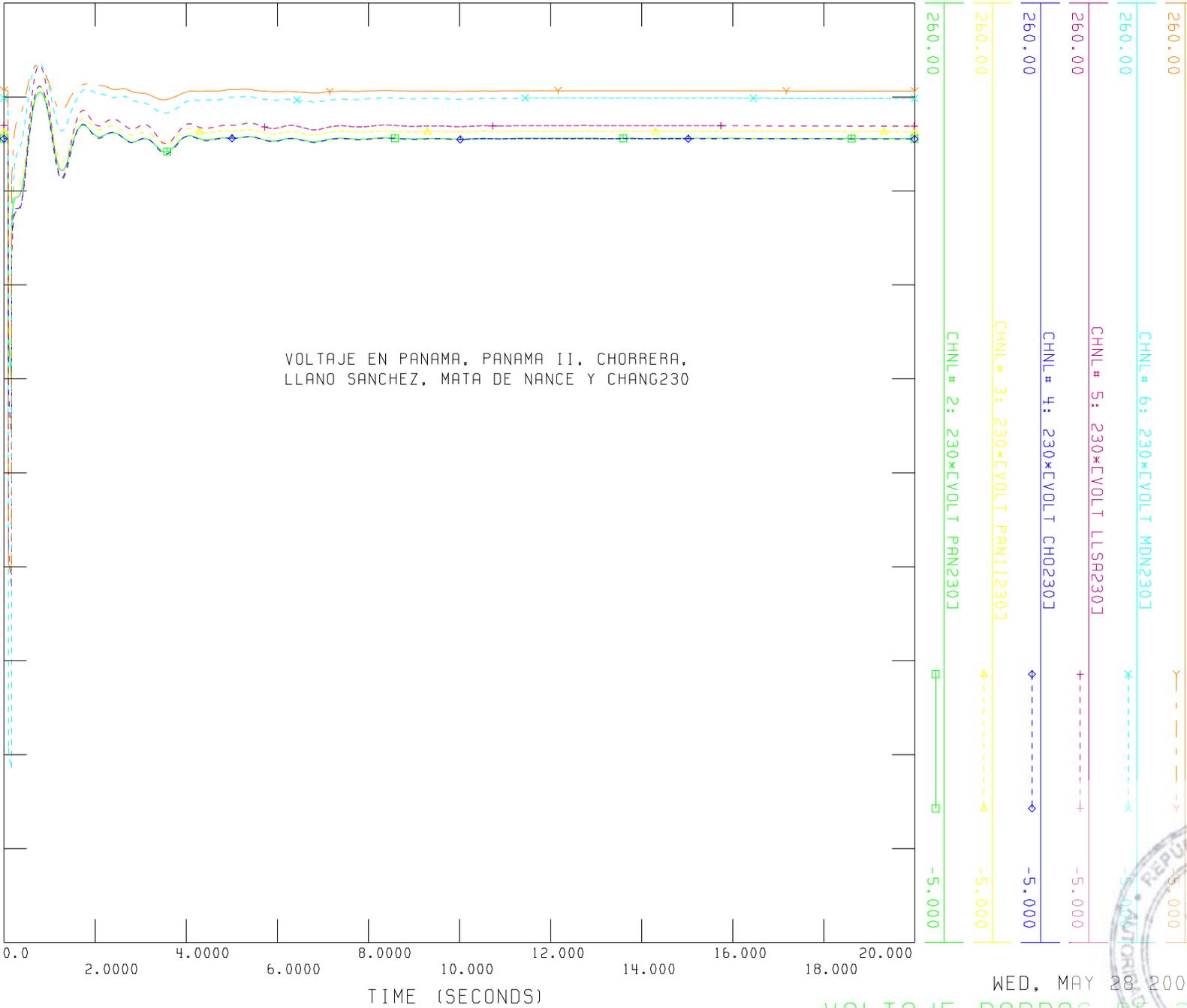


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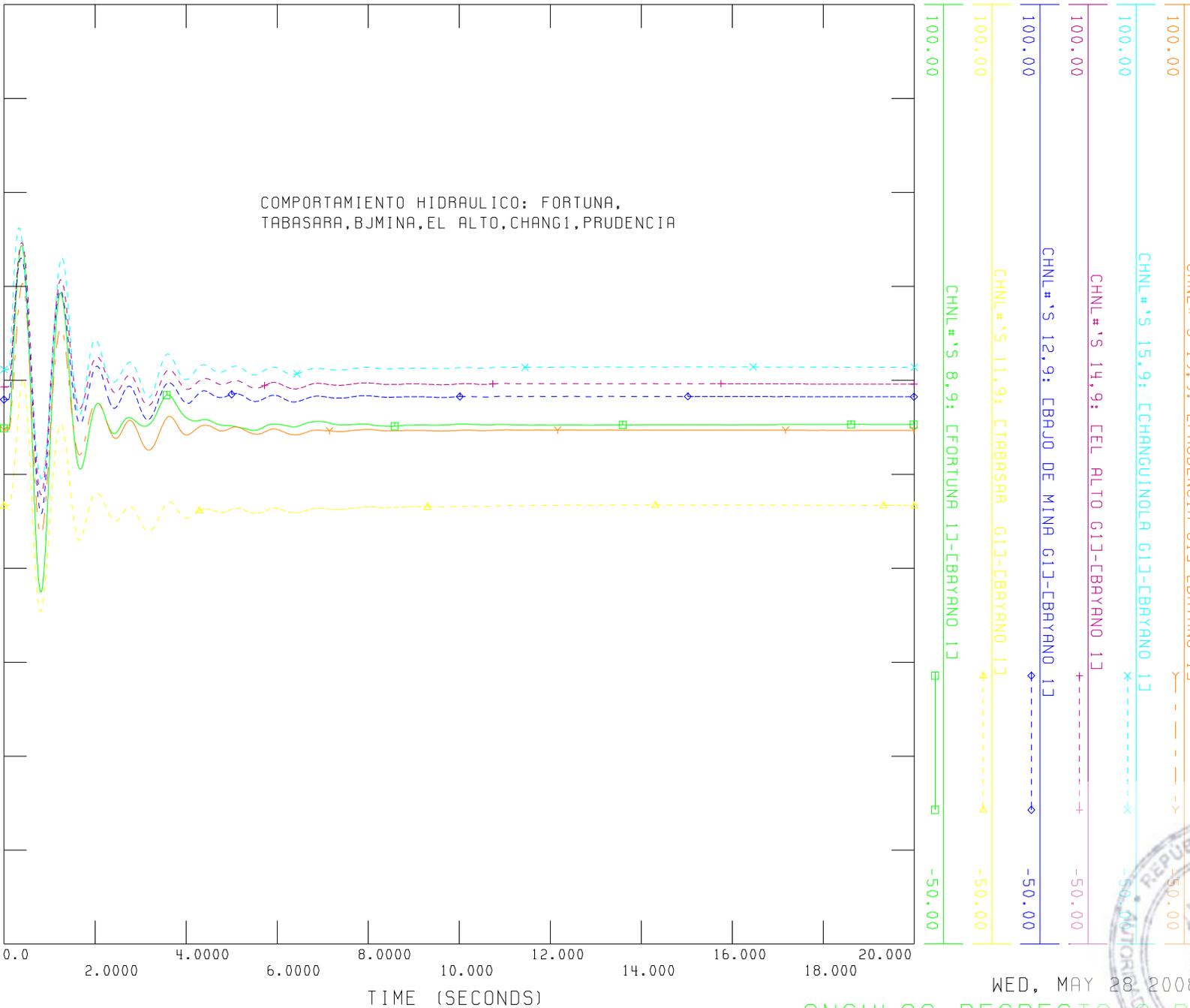


WED, MAY 28 2008 14:39

VOLTAGE BARRAS DE 230 KV



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WED, MAY 28 2008 14:45

ANGULOS RESPECTO A BAYANO



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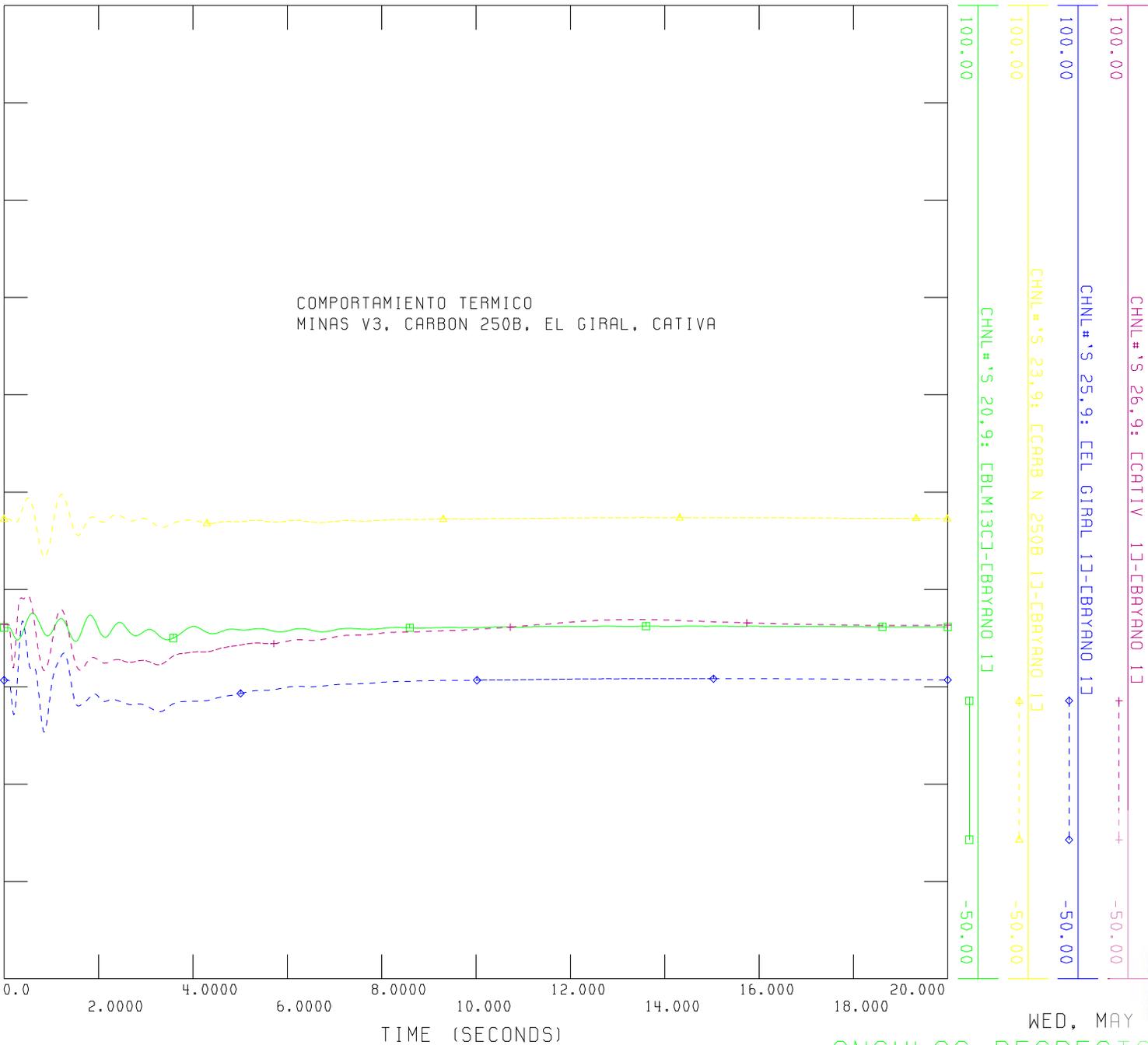
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021

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WED, MAY 28 2008 15:21

ANGULOS RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**



de



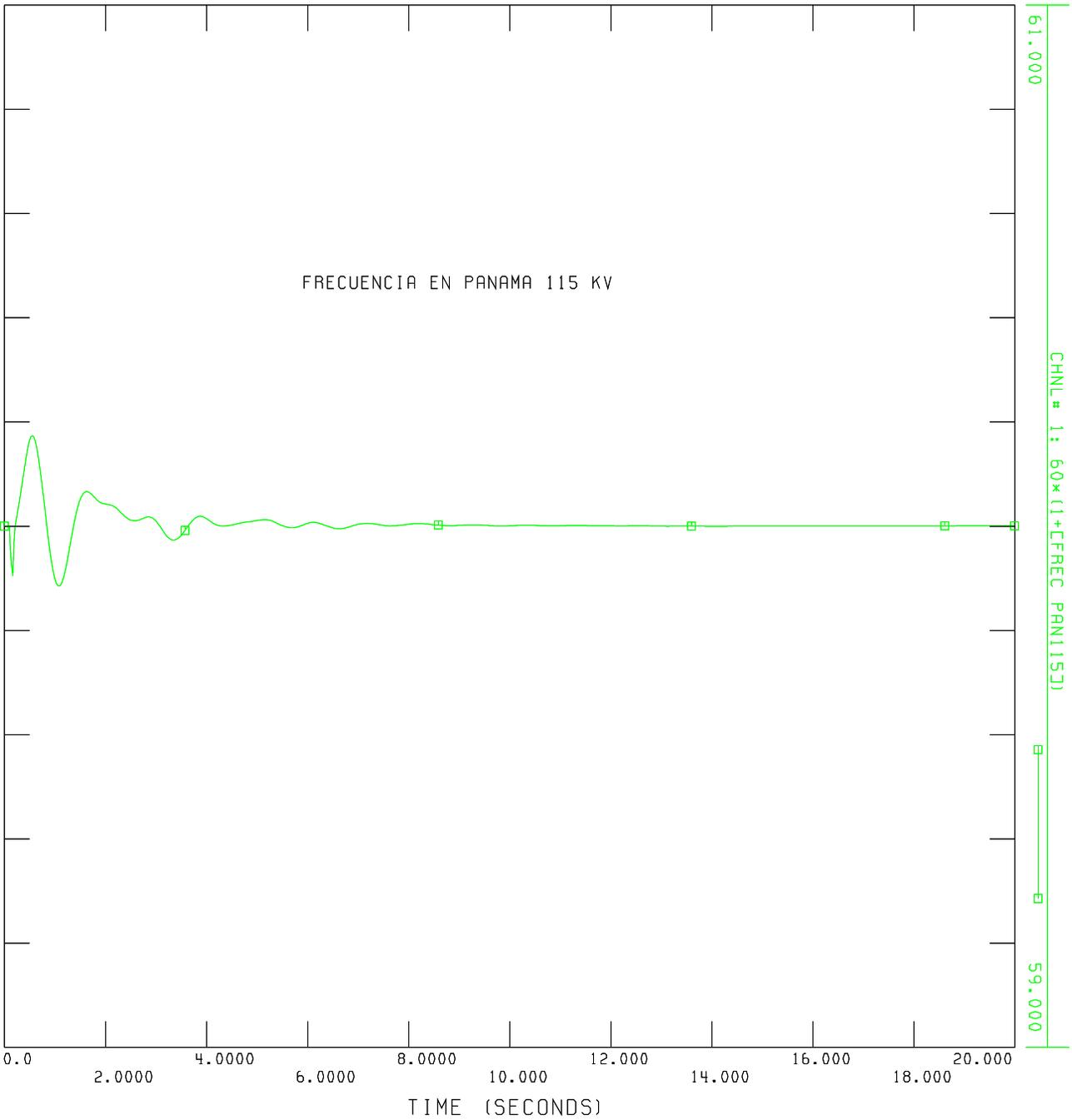
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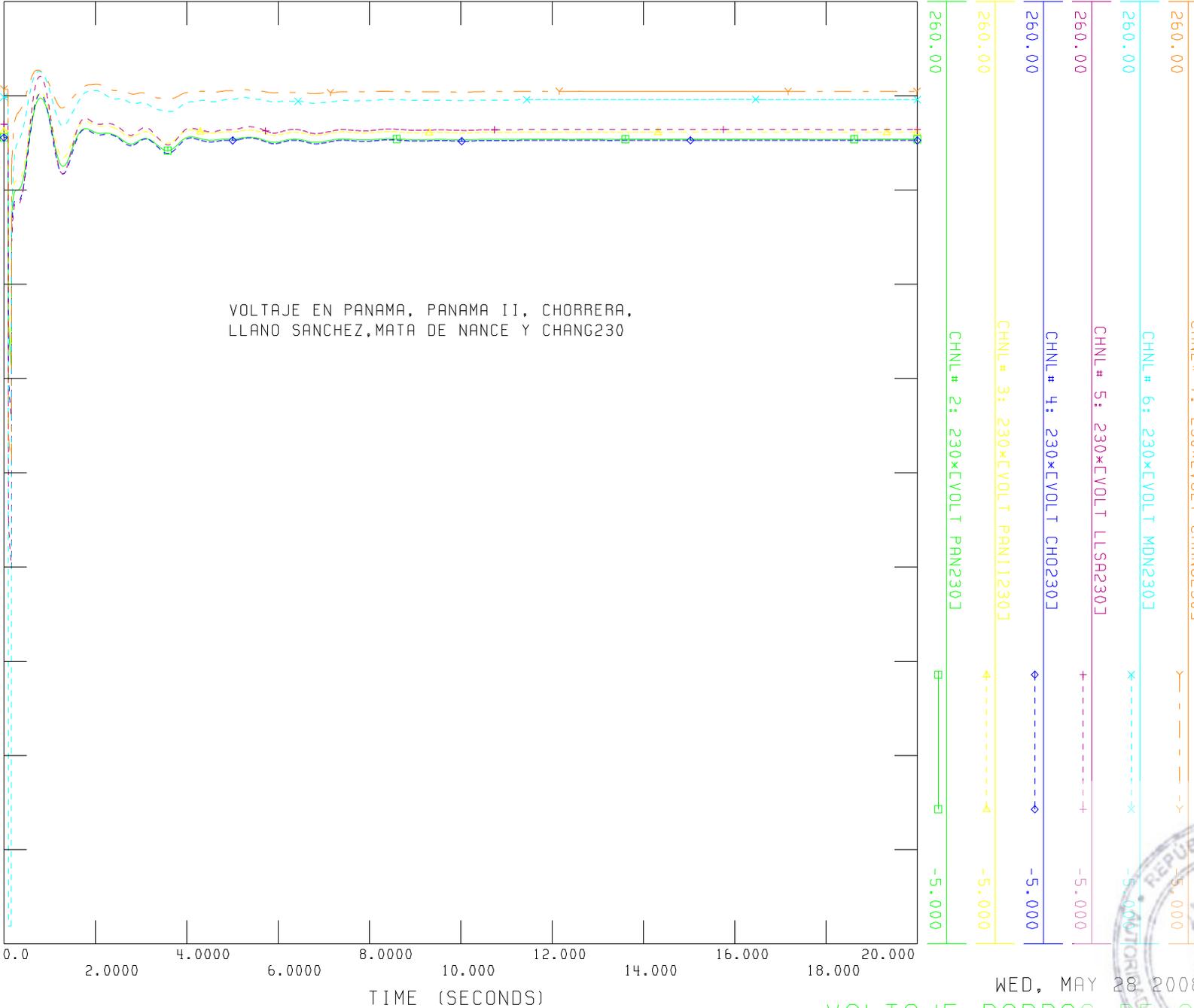


WED, MAY 28 2008 15:29

FRECUENCIA EN HZ



FILE: C:\Disco F\PlaneExpans\2008\Dynamic\2021PE_ModMax-InvCarb.n5.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

WED, MAY 28 2008 15:48

VOLTAJE BARRAS DE 230 KV

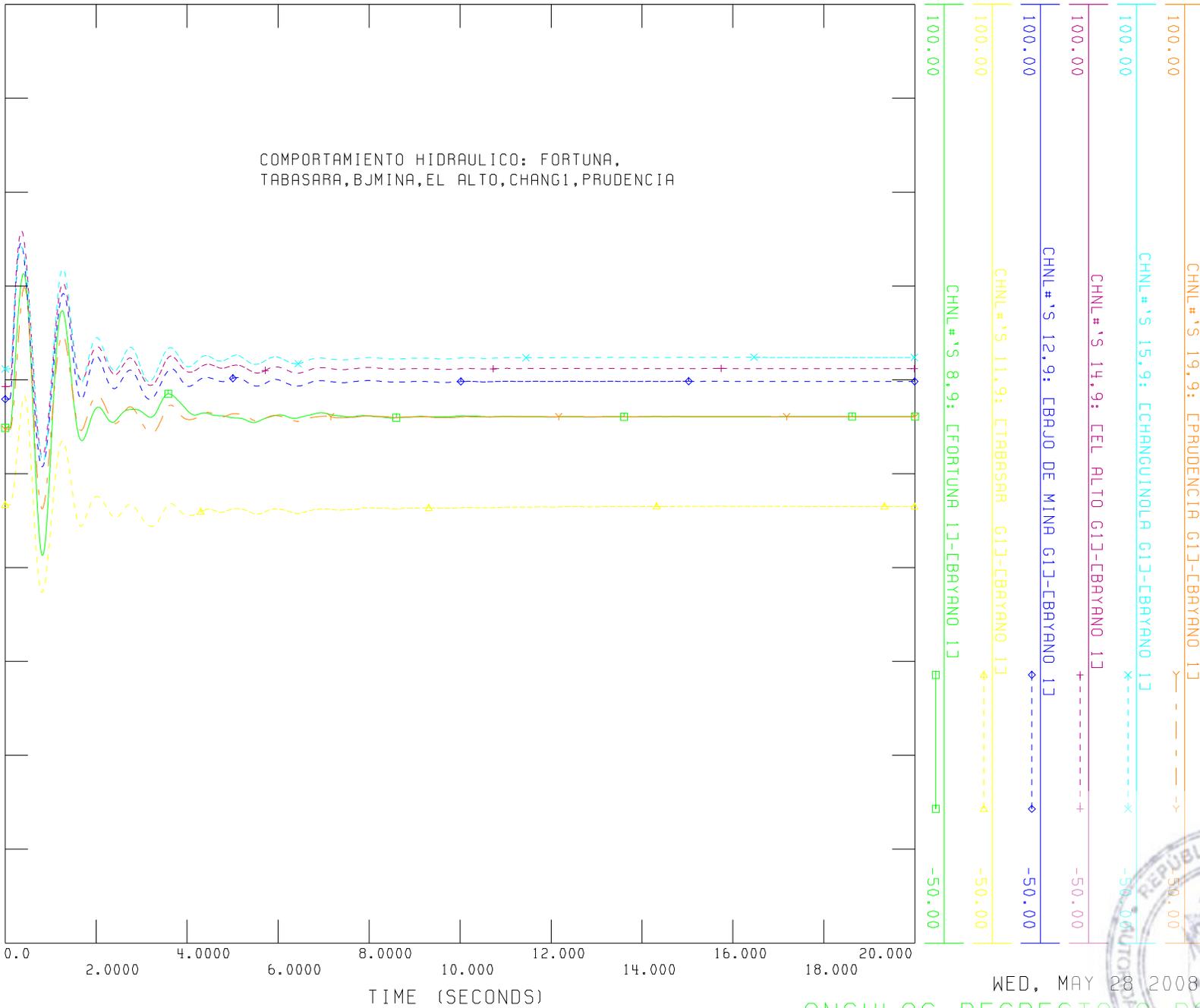


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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2021

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvCarb n5.out



WED, MAY 28 2008 15:52

ANGULOS RESPECTO A BAYANO

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021

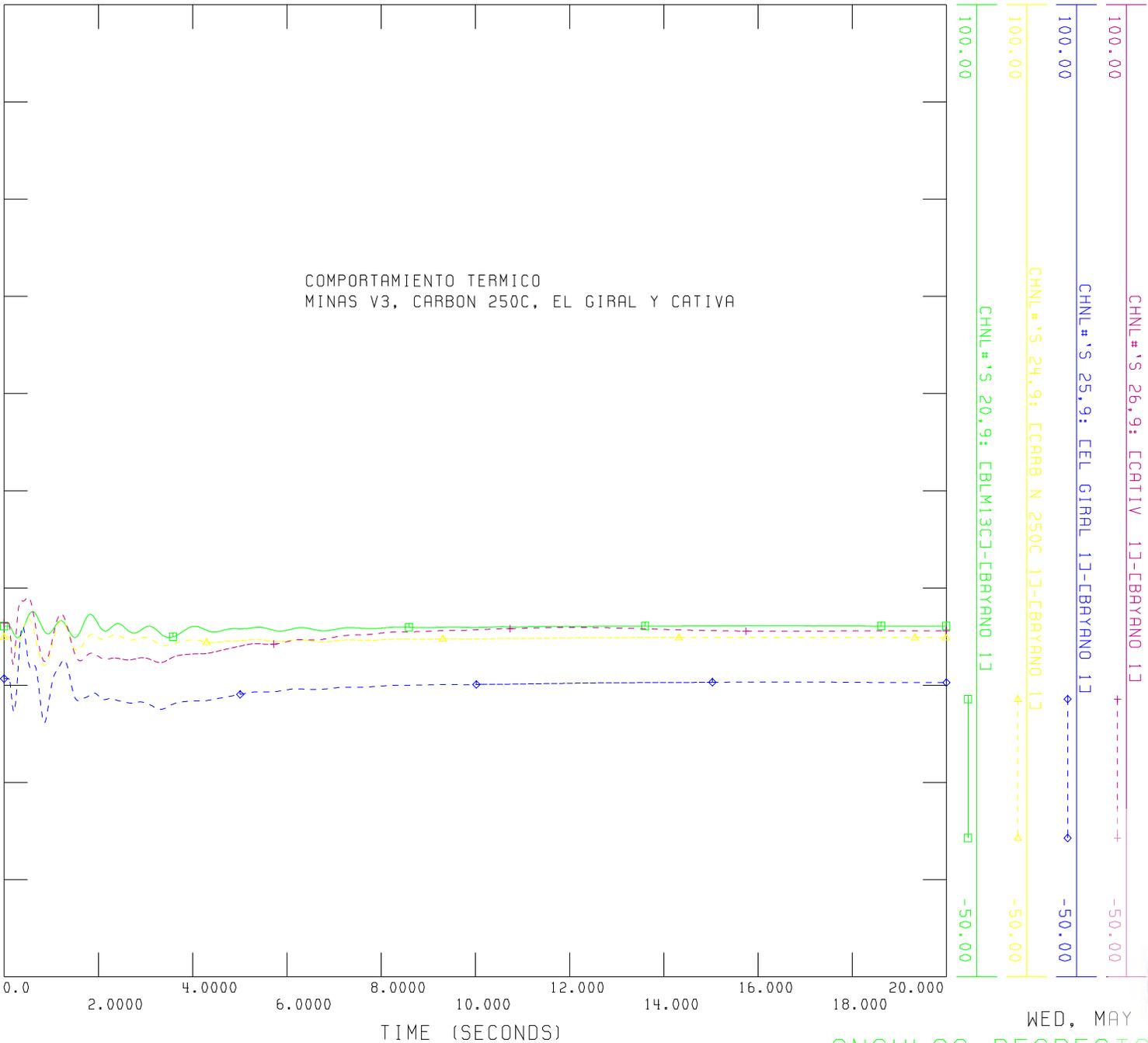
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WED, MAY 28 2008 15:55

ANGULOS RESPECTO A BAYANO

COMPORTAMIENTO TERMICO
 MINAS V3, CARBON 250C, EL GIRAL Y CATIVA



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA – PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 1: REGMHTCB8**

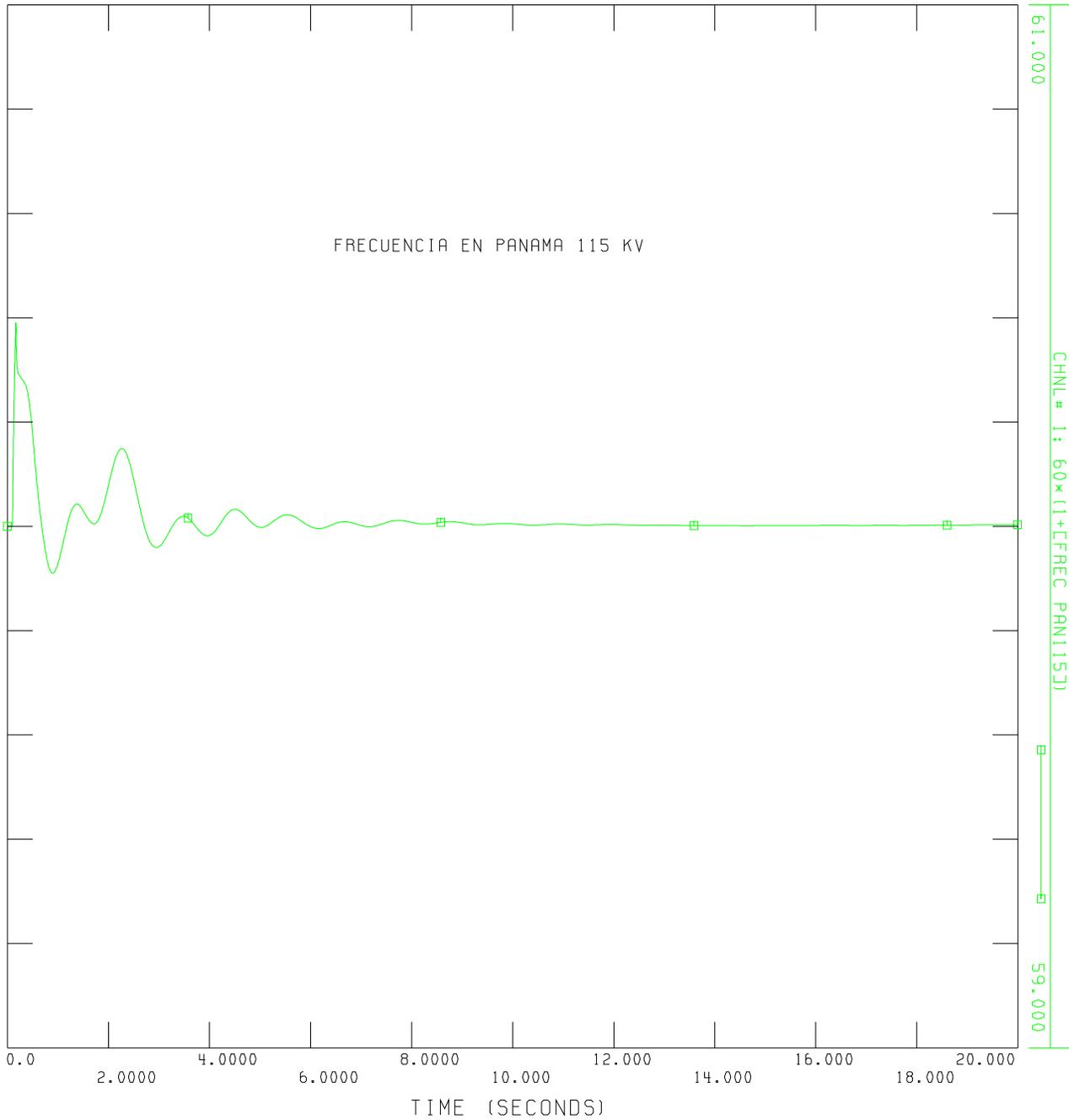


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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
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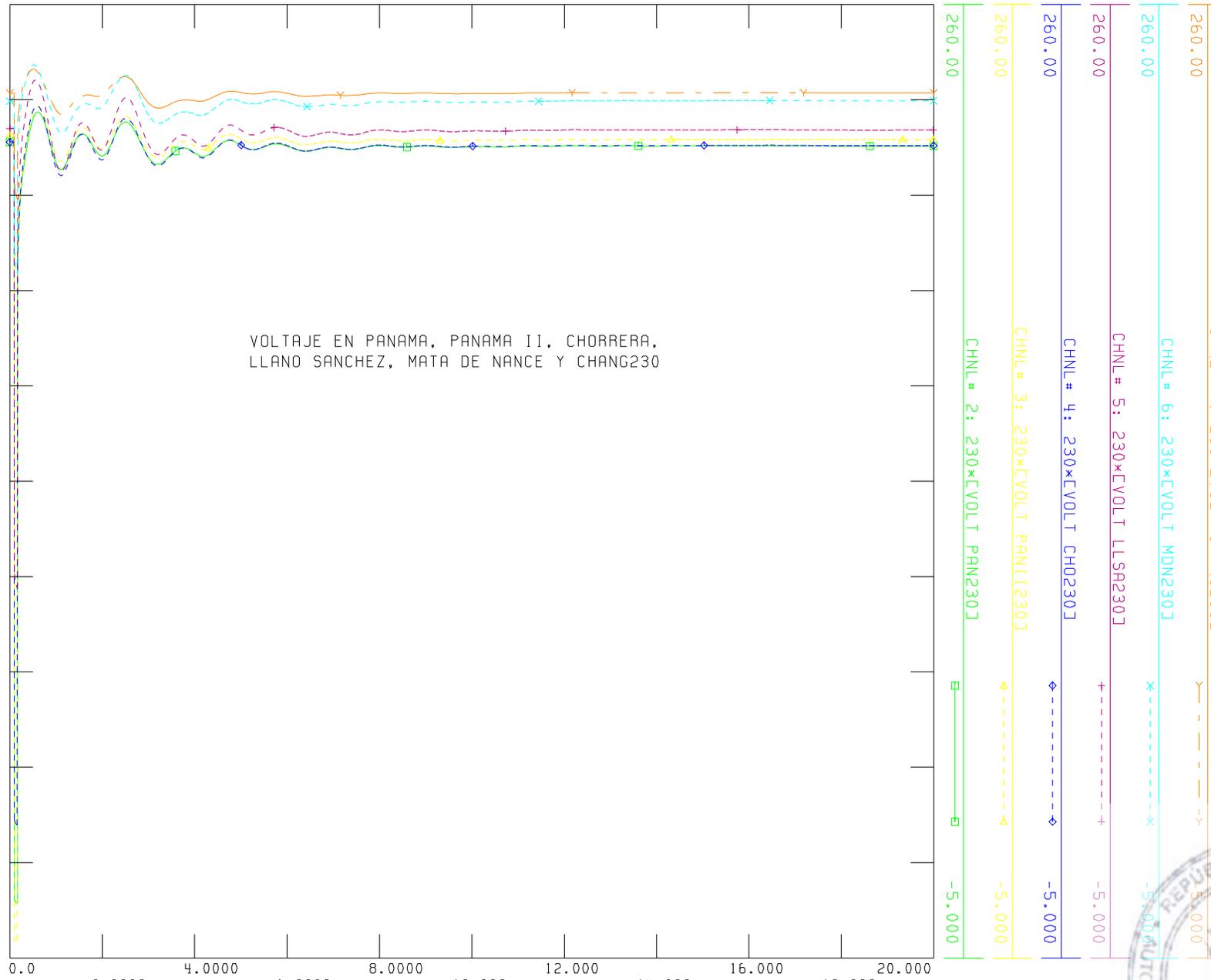


WED, MAY 28 2008 16:00
FRECUENCIA EN HZ



PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
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WED, MAY 28 2008 16:08

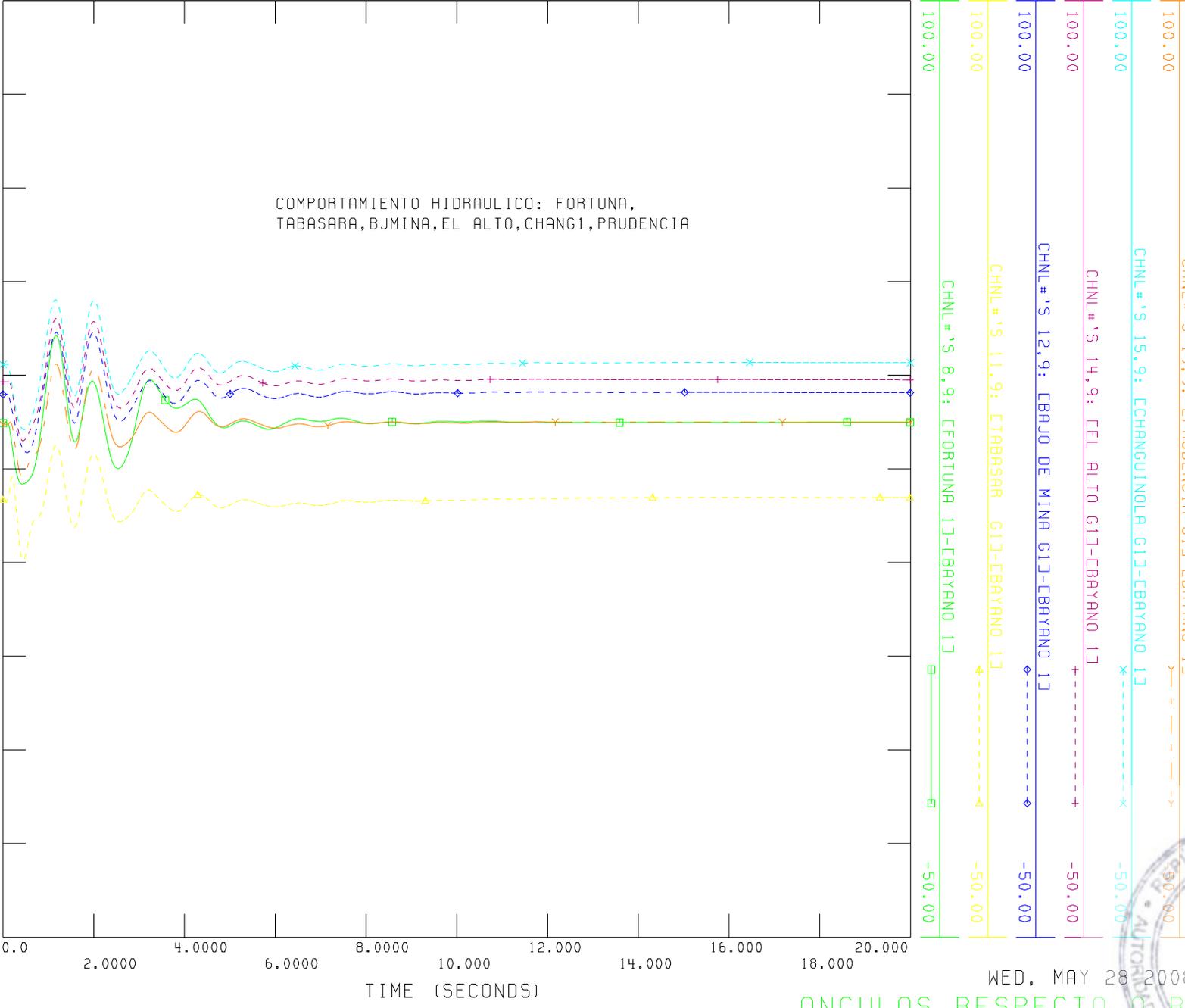
VOLTAJE BARRAS DE 230 KV

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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2021

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvCarb n6.ppt



WED, MAY 28 2008 16:06

ANGULOS RESPECTO A BAYANO

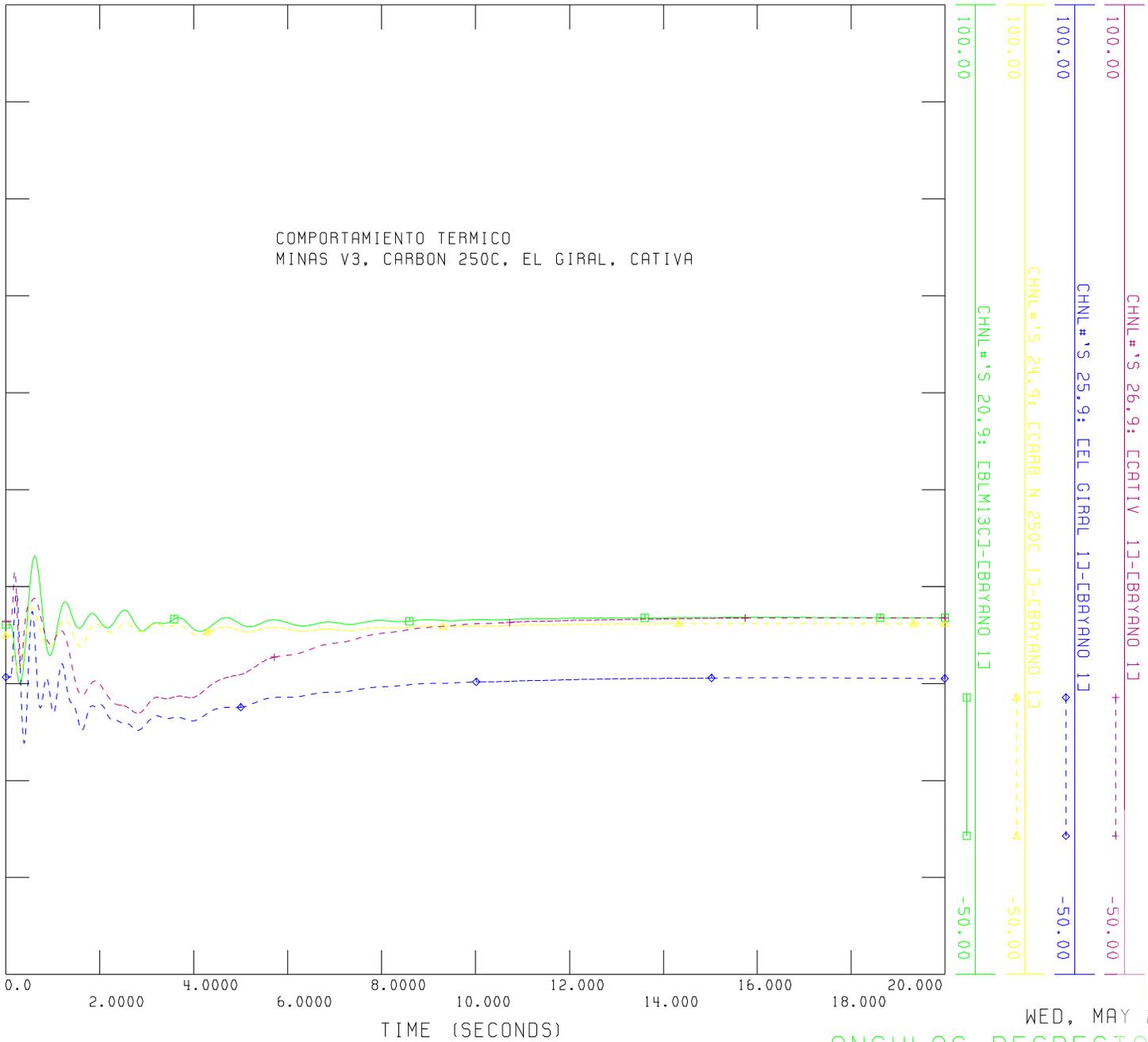


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2021PE_ModMax-InvCarb no.out



WED, MAY 28 2008 16:11

ANGULOS RESPECTO A BAYANO

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**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA – PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO**

Caso 2: REGMHTGDC8



de

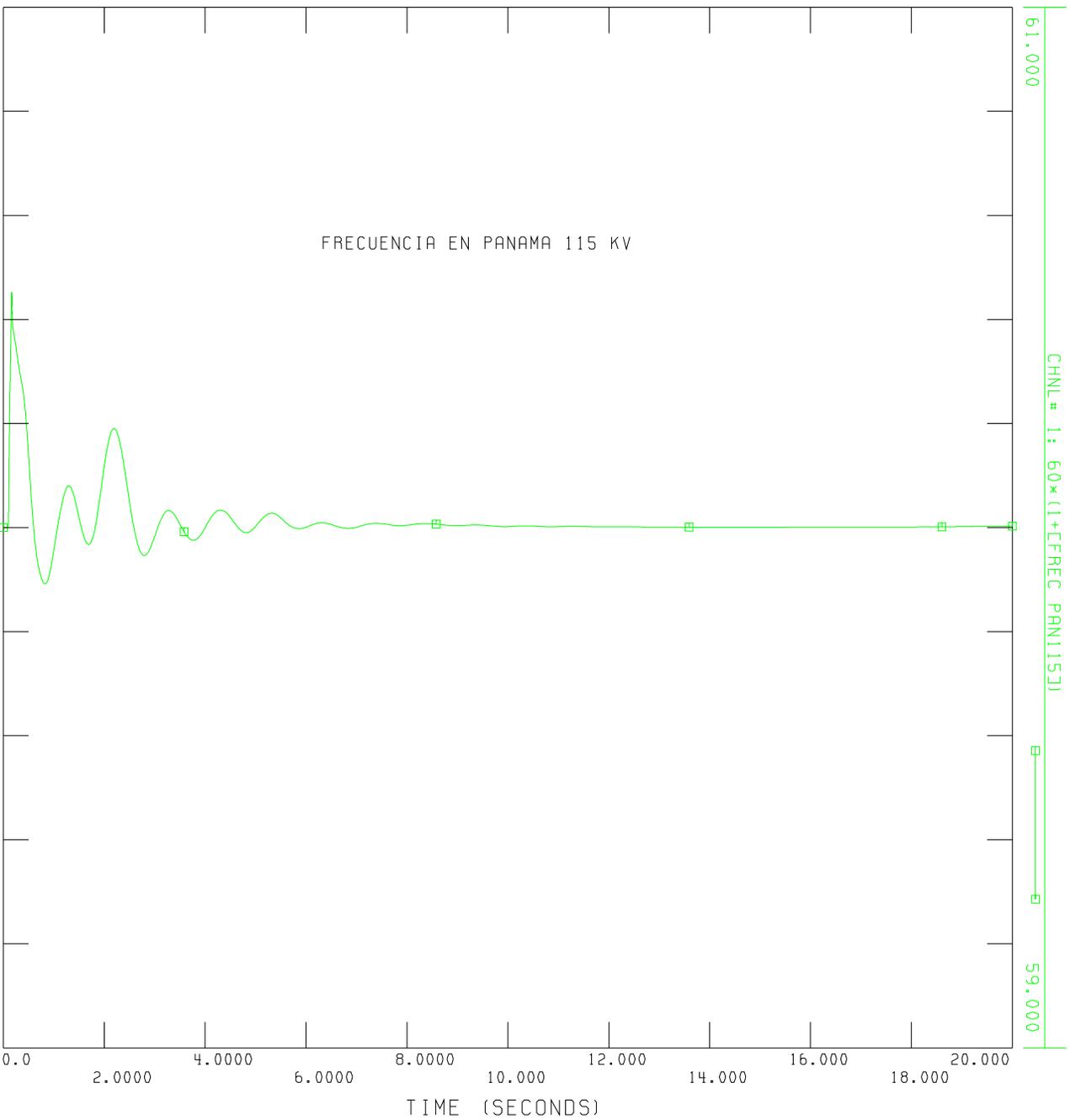


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

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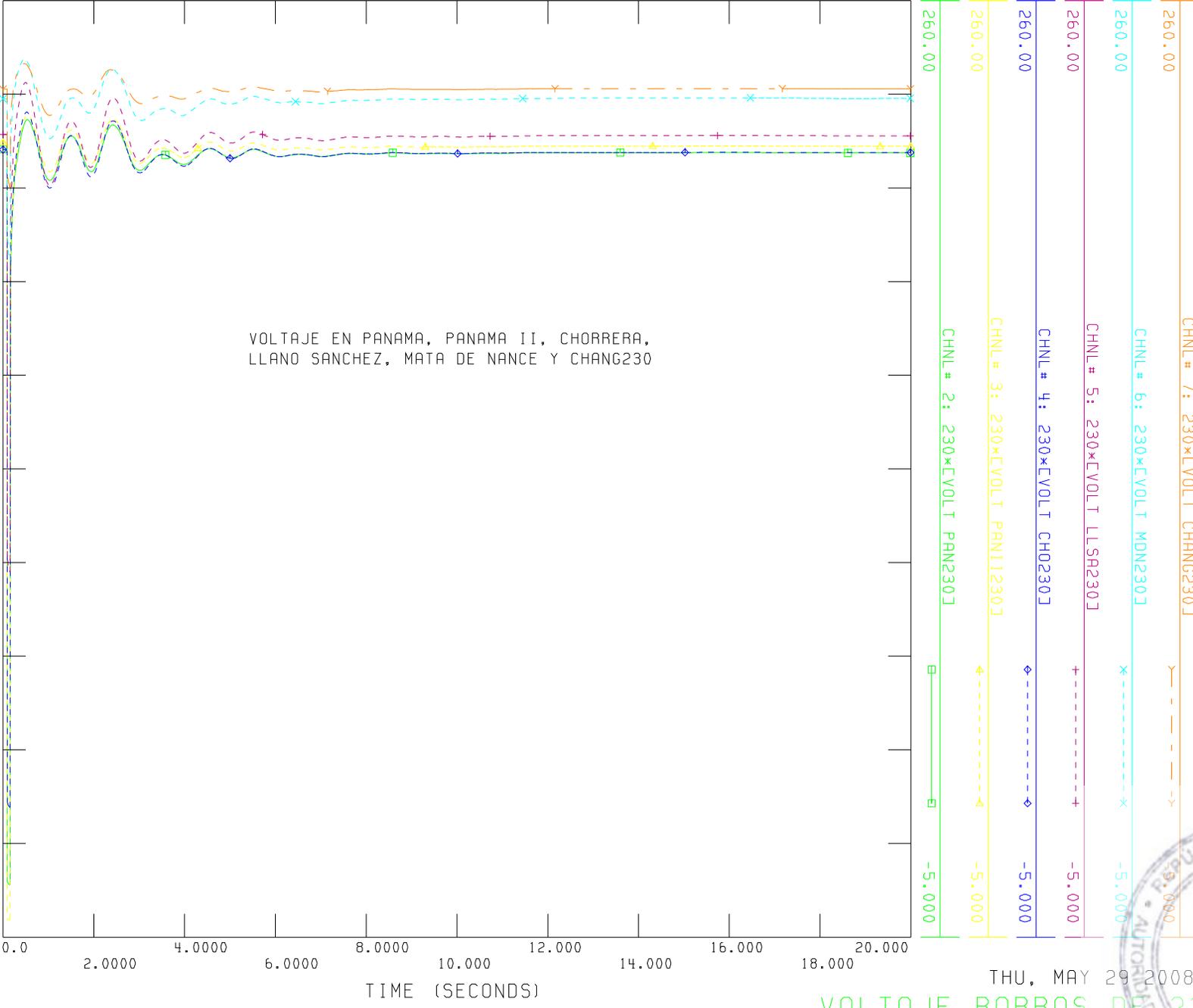
THU, MAY 29 2008 19:34
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
A 0 2021 REGMHTGDC8

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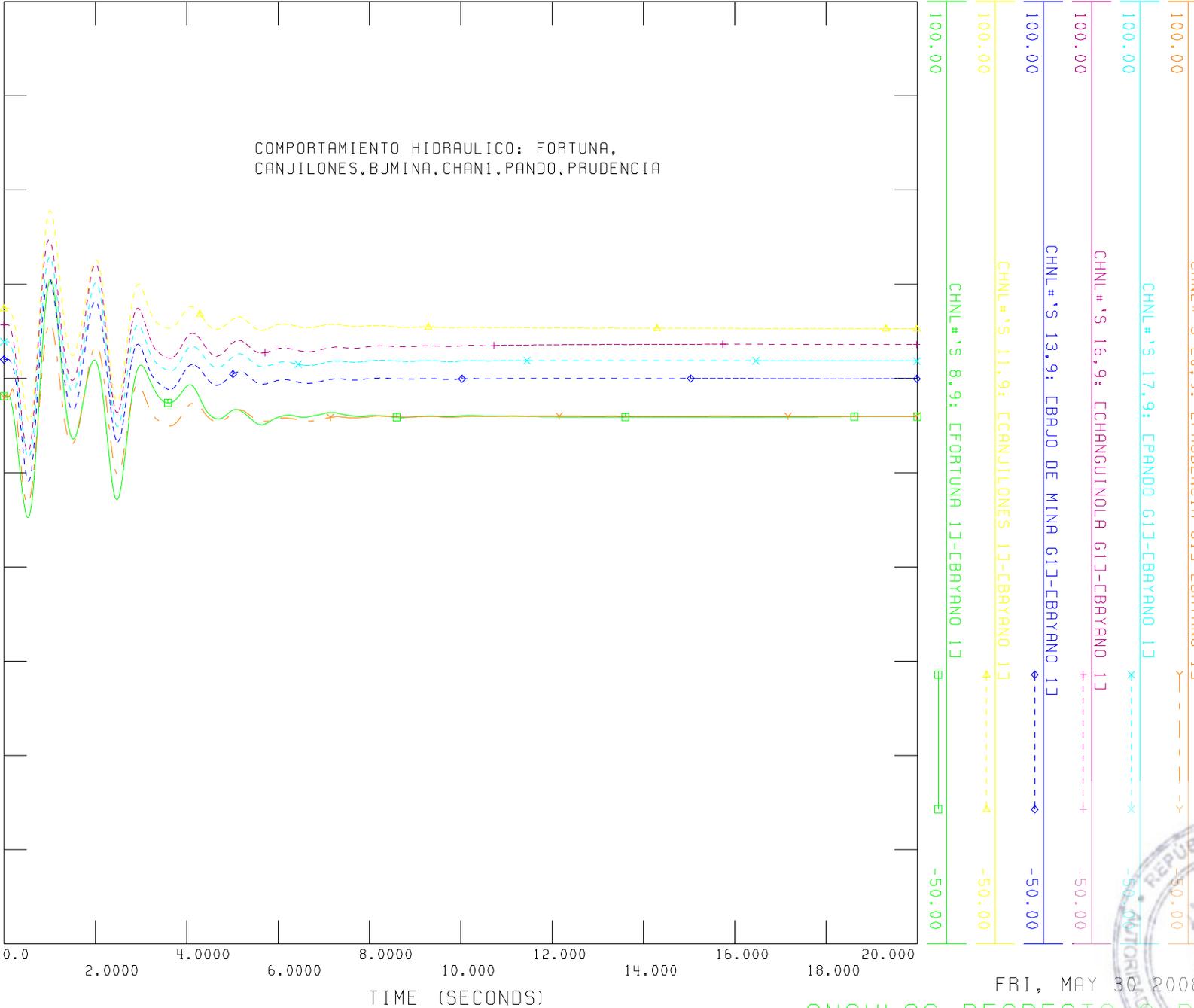
VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

THU, MAY 29 2008 19:37
VOLTAJE BARRAS DE 230 KV



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FILE: C:\Disco F\PlaneExpansion\h2008\Dynamics\2021PE_ModMax-InvBas1.out



FRI, MAY 30 2008 10:39

ANGULOS RESPECTO A BAYANO

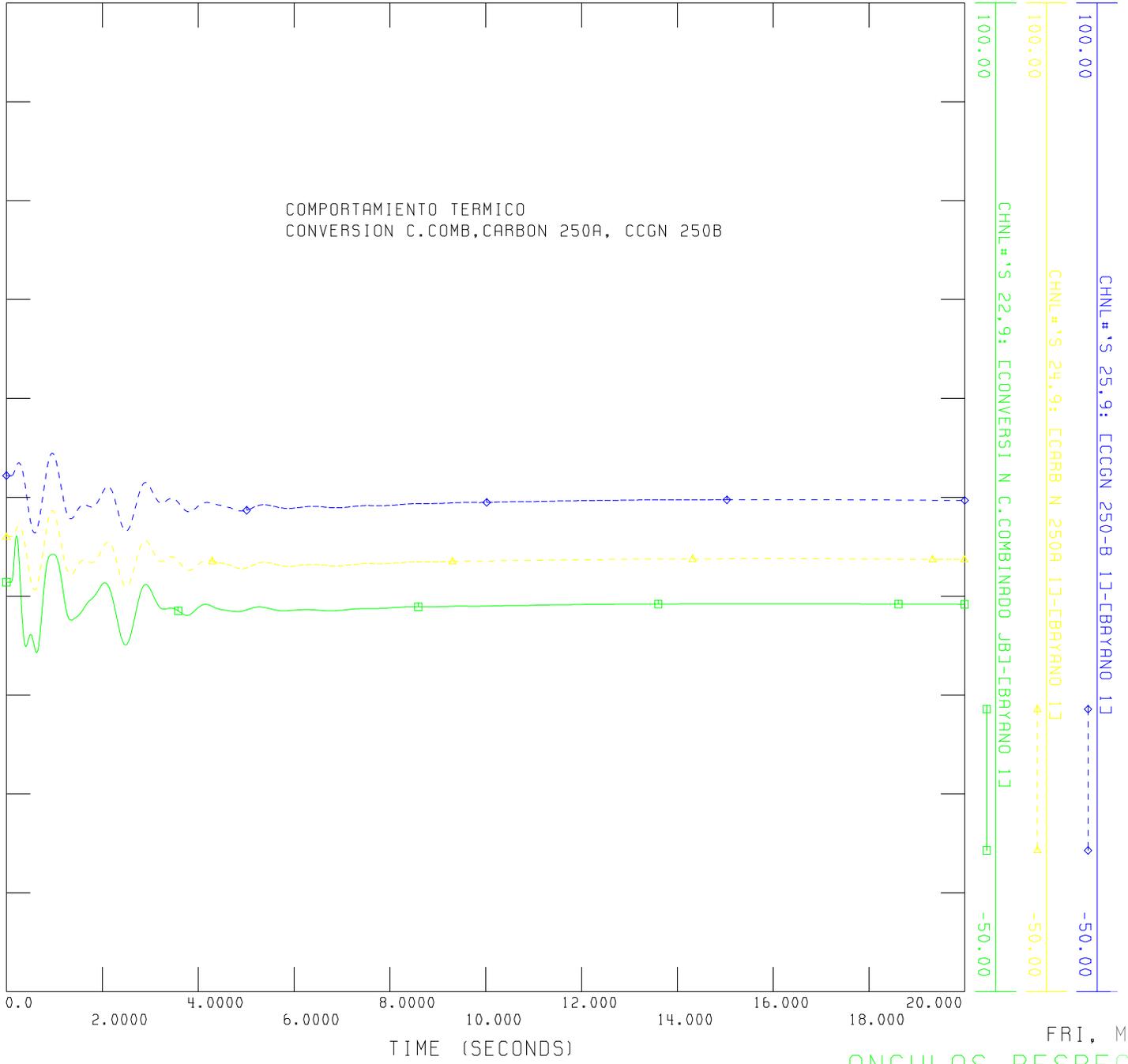


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PLAN: EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGas1.out



FRI, MAY 30 2008 10:50

ANGULOS RESPECTO A BAYANO

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**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ - CHORRERA
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO**

Caso 2: REGMHTGDC8



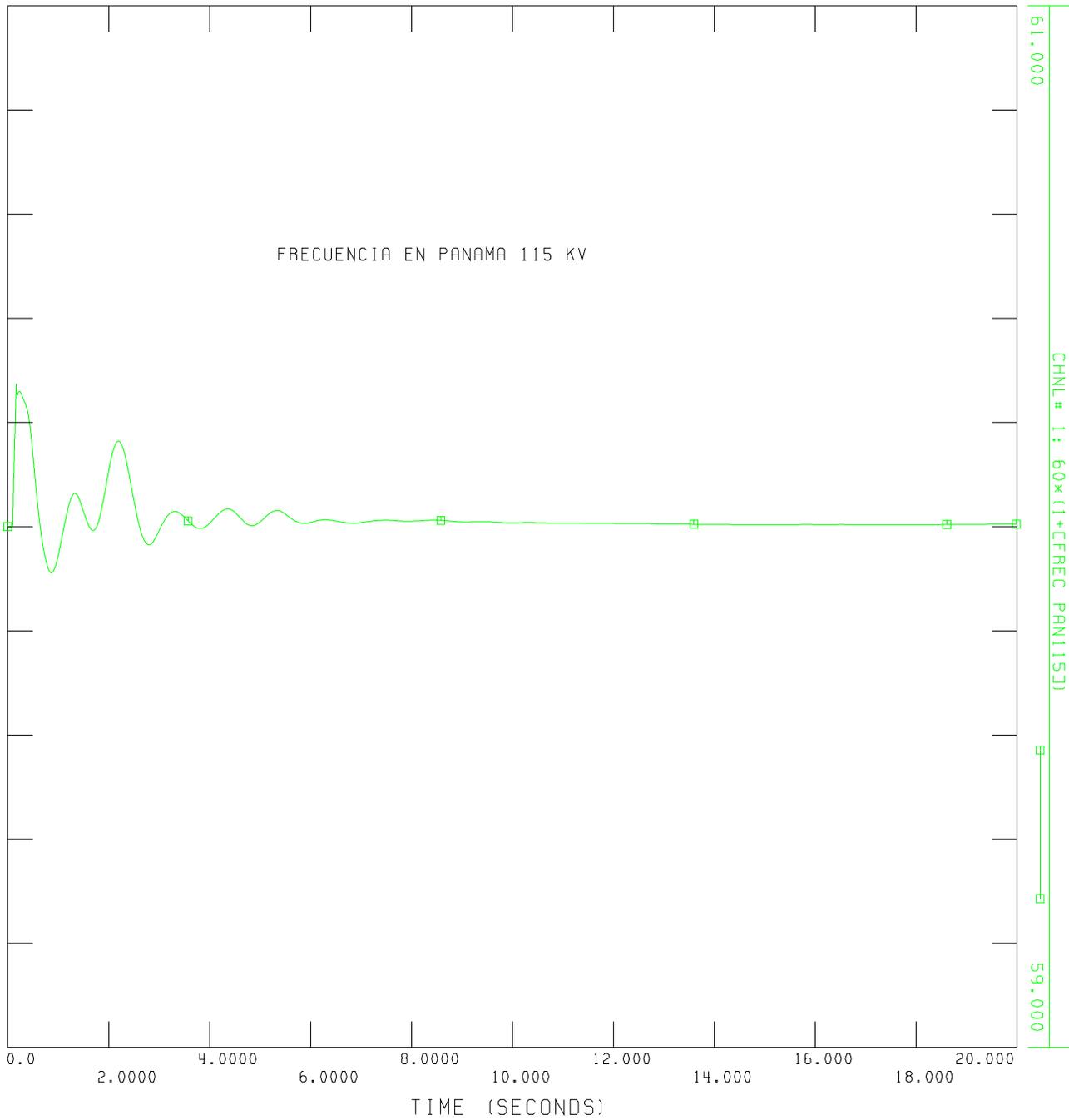


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

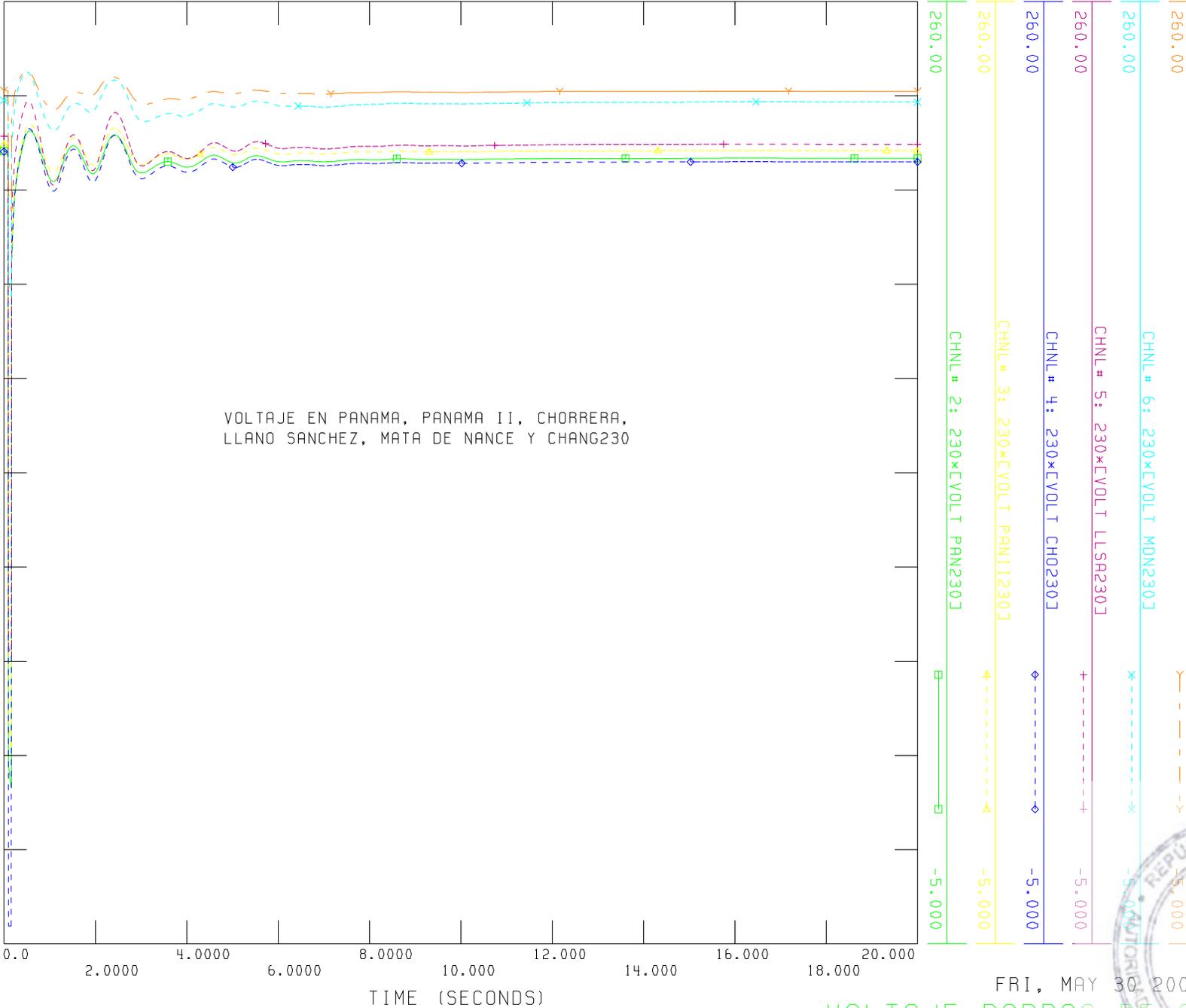
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FRI, MAY 30 2008 12:36
FRECUENCIA EN HZ



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FRI, MAY 30 2008 12:41

VOLTAJE BARRAS DE 230 KV

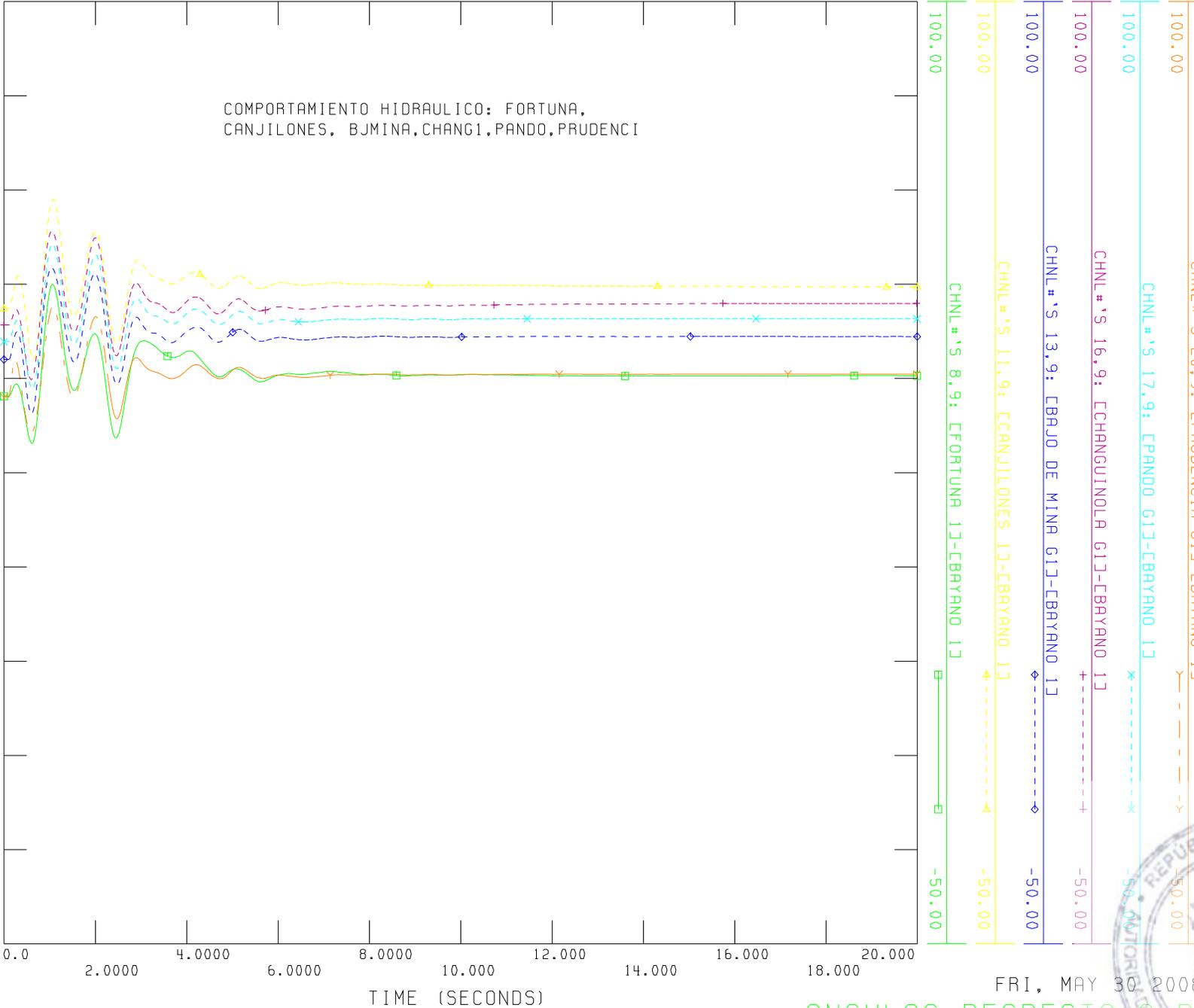


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PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2021PE_ModMax-InyBas2.out



COMPORTAMIENTO HIDRAULICO: FORTUNA,
 CANJILONES, BJMINA,CHANG1,PANDO,PRUDENCIA



FRI, MAY 30 2008 12:44

ANGULOS RESPECTO A BAYANO

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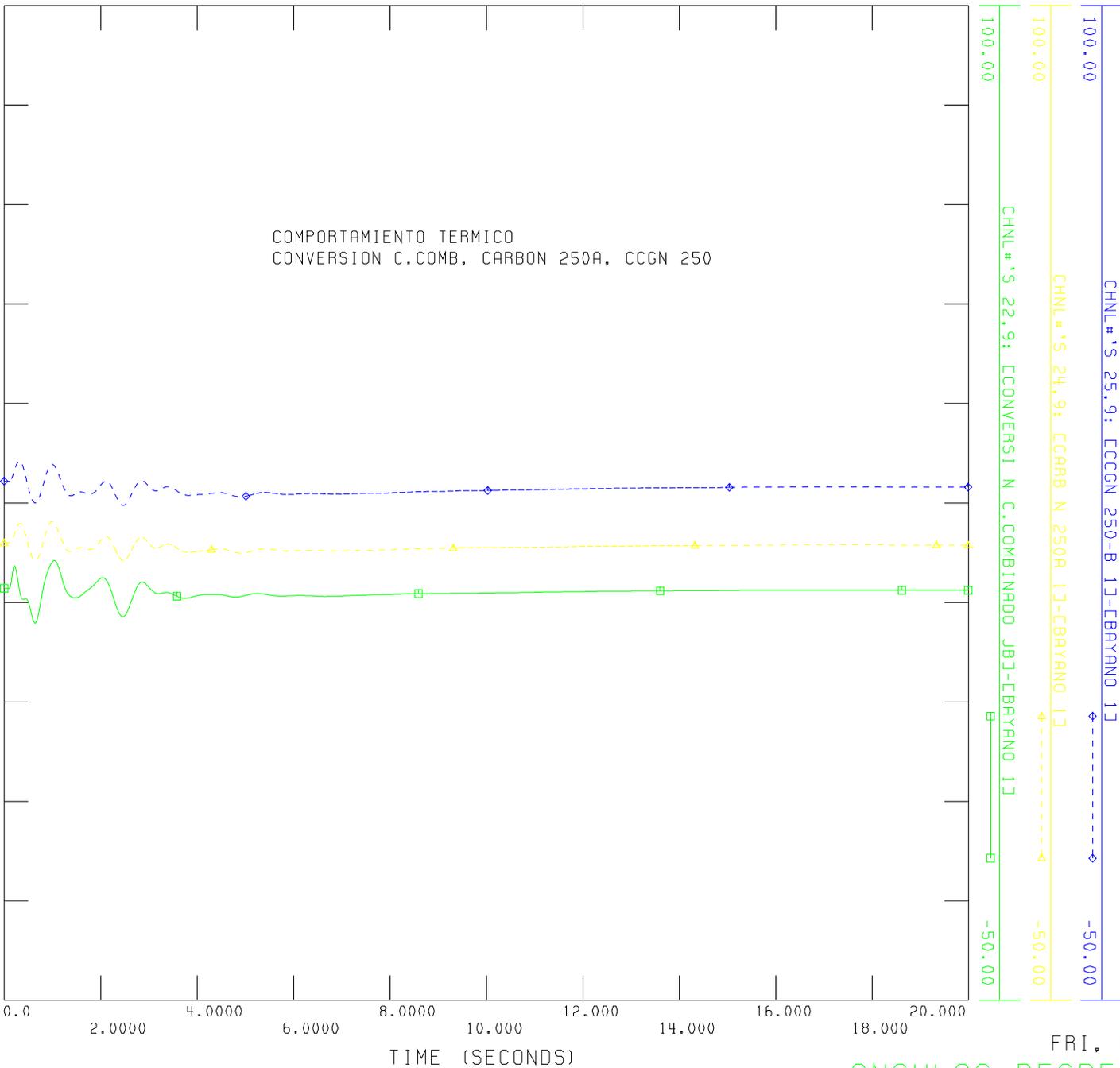
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlaneExpansi n2008\Dynamics\2021PE_ModMax-InvBas2.out



FRI, MAY 30 2008 12:48

ANGULOS RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

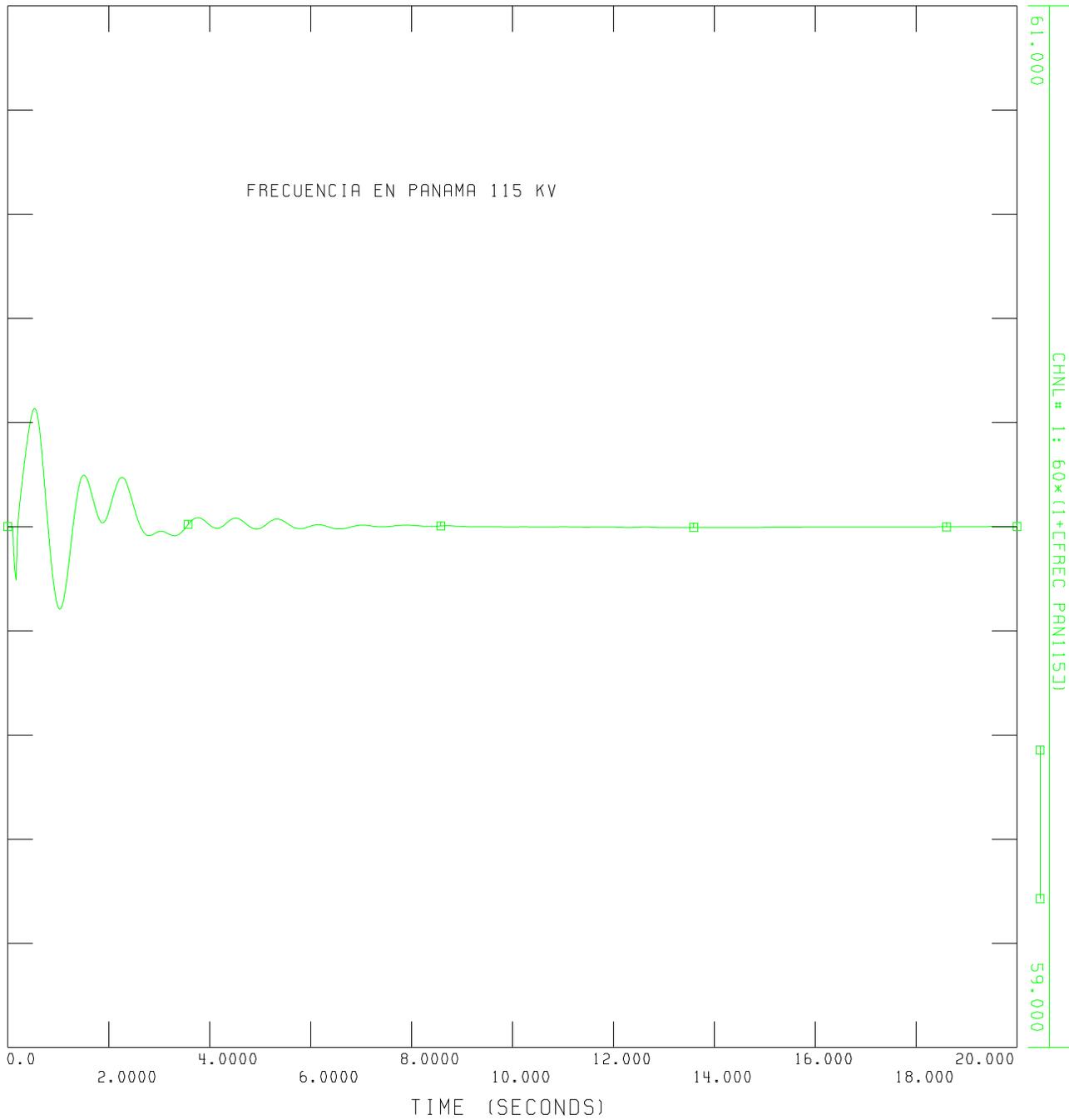


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
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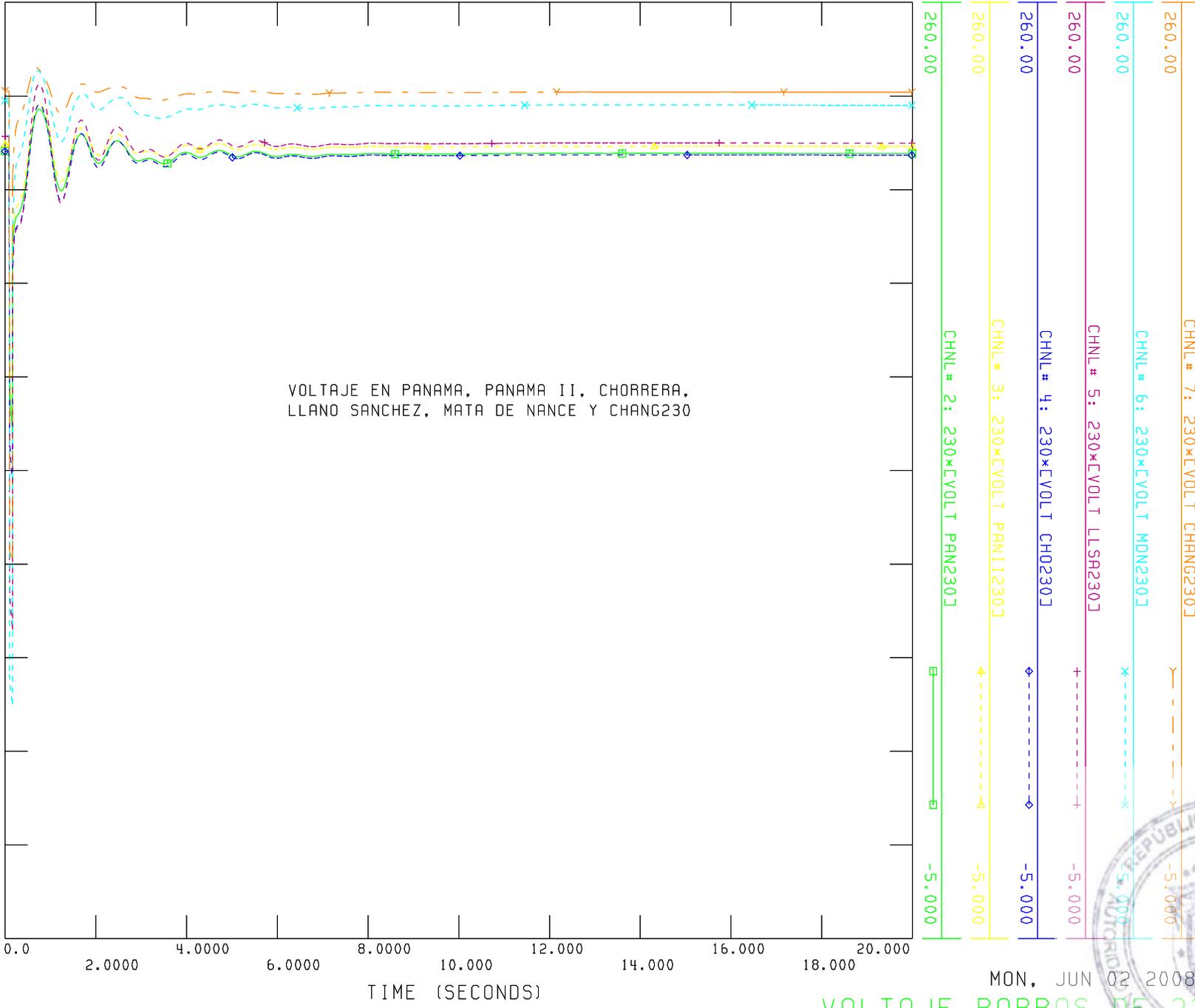
MON, JUN 02 2008 8:21
FRECUENCIA EN HZ





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamic\2021PE_ModMax-InvGas3.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
 LLANO SANCHEZ, MATA DE NANCE Y CHANG230

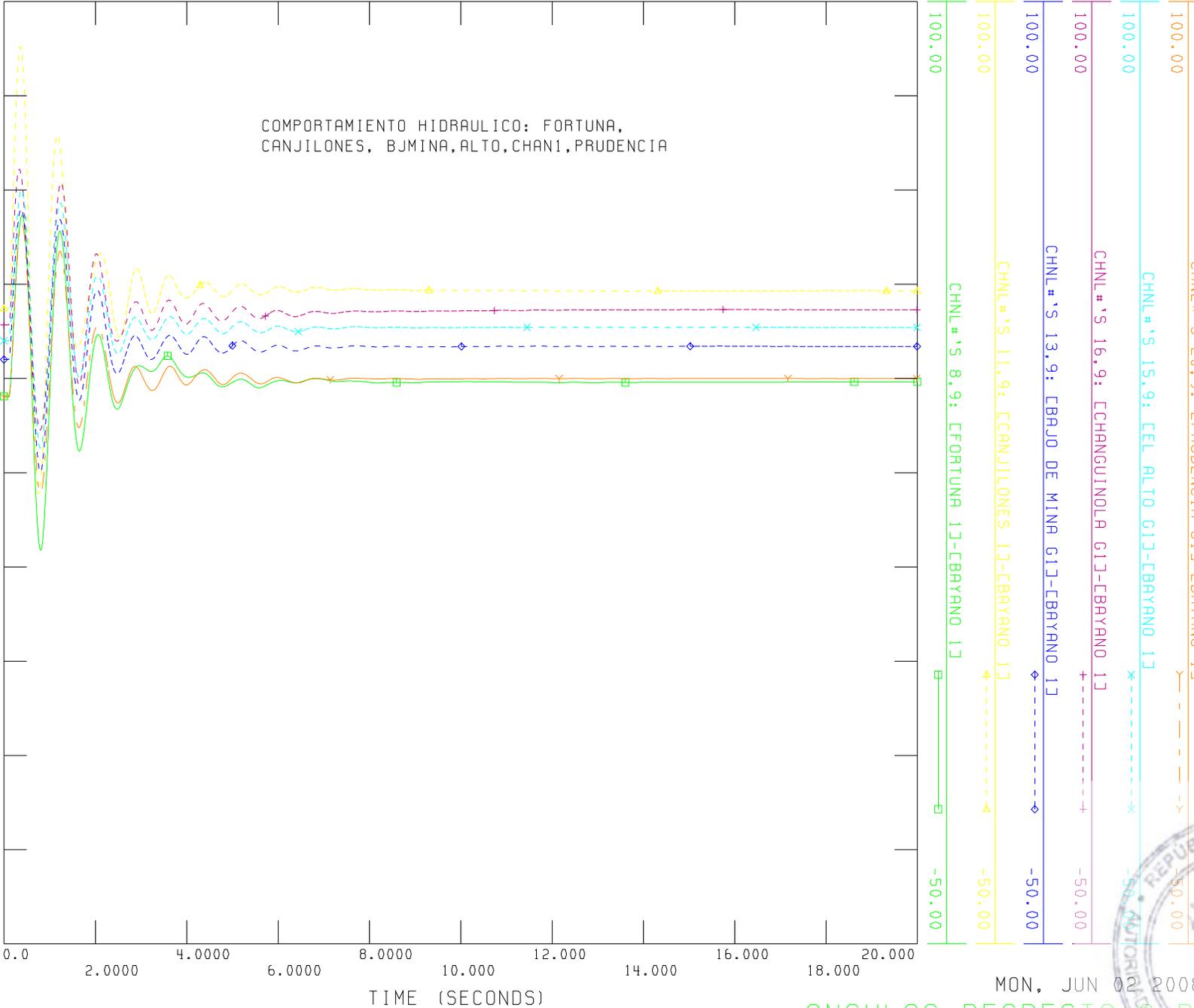


MON, JUN 02 2008 8:26

VOLTAJE BARRAS DE 230 KV

Handwritten signature

FILE: C:\Disco F\PlanExpansion\2008\Dynamics\2021PE_ModMax-InyGas3.out



MON, JUN 02 2008 8:31

ANGULOS RESPECTO A BAYANO

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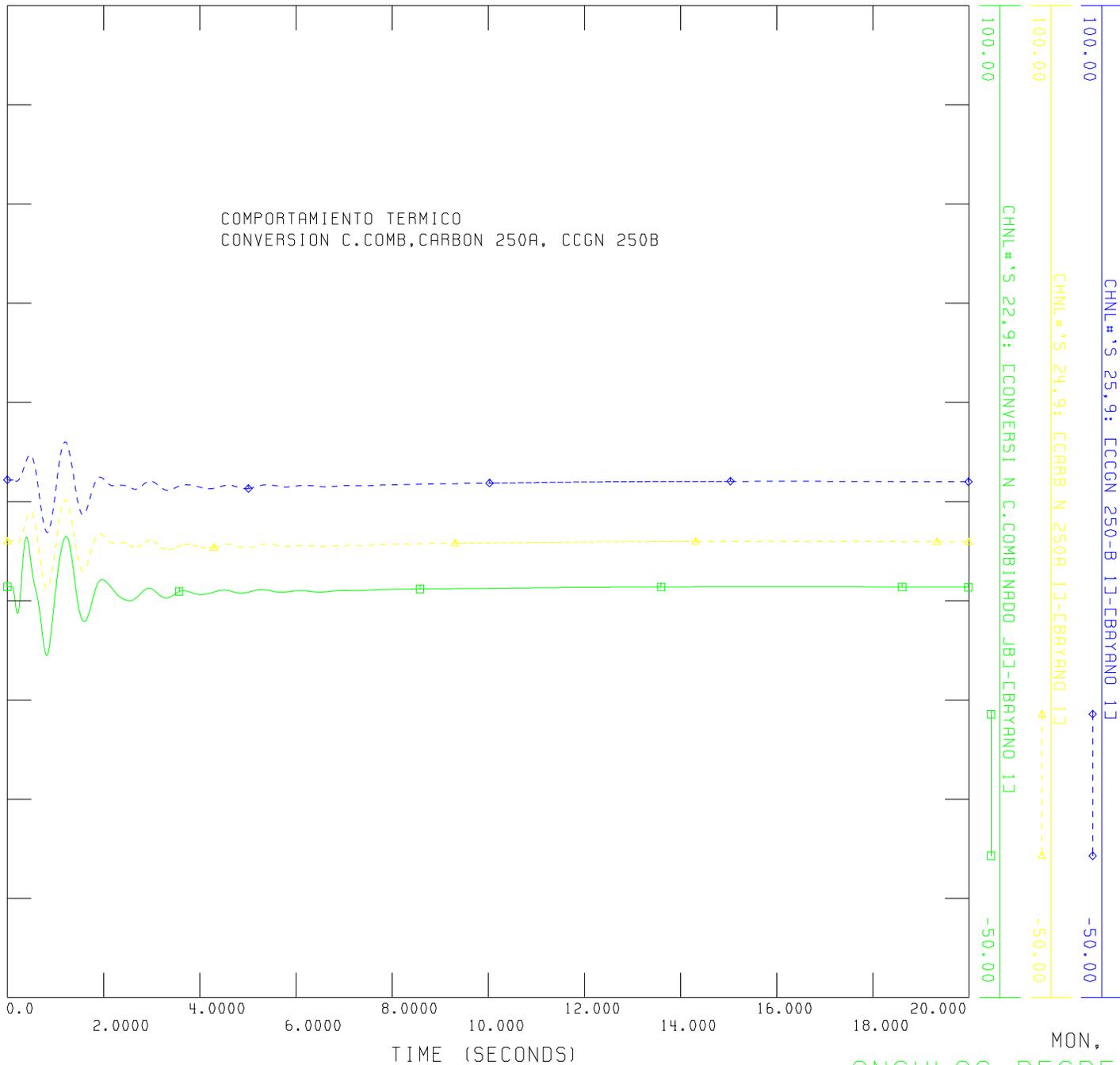
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGas3.out



MON, JUN 02 2008 8:57

ANGULOS RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA - GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 2: REGMHTGDC8**



de

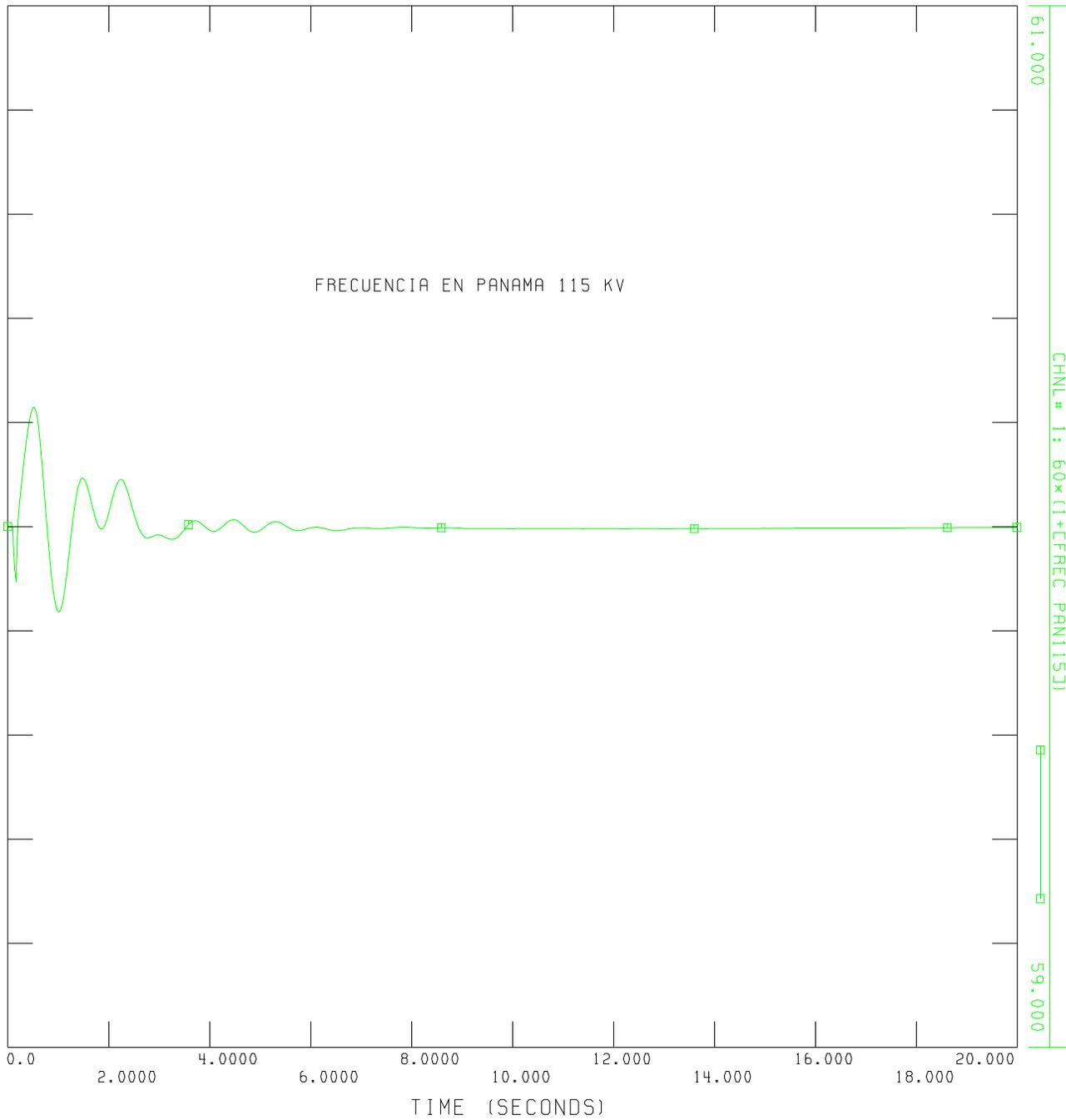


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

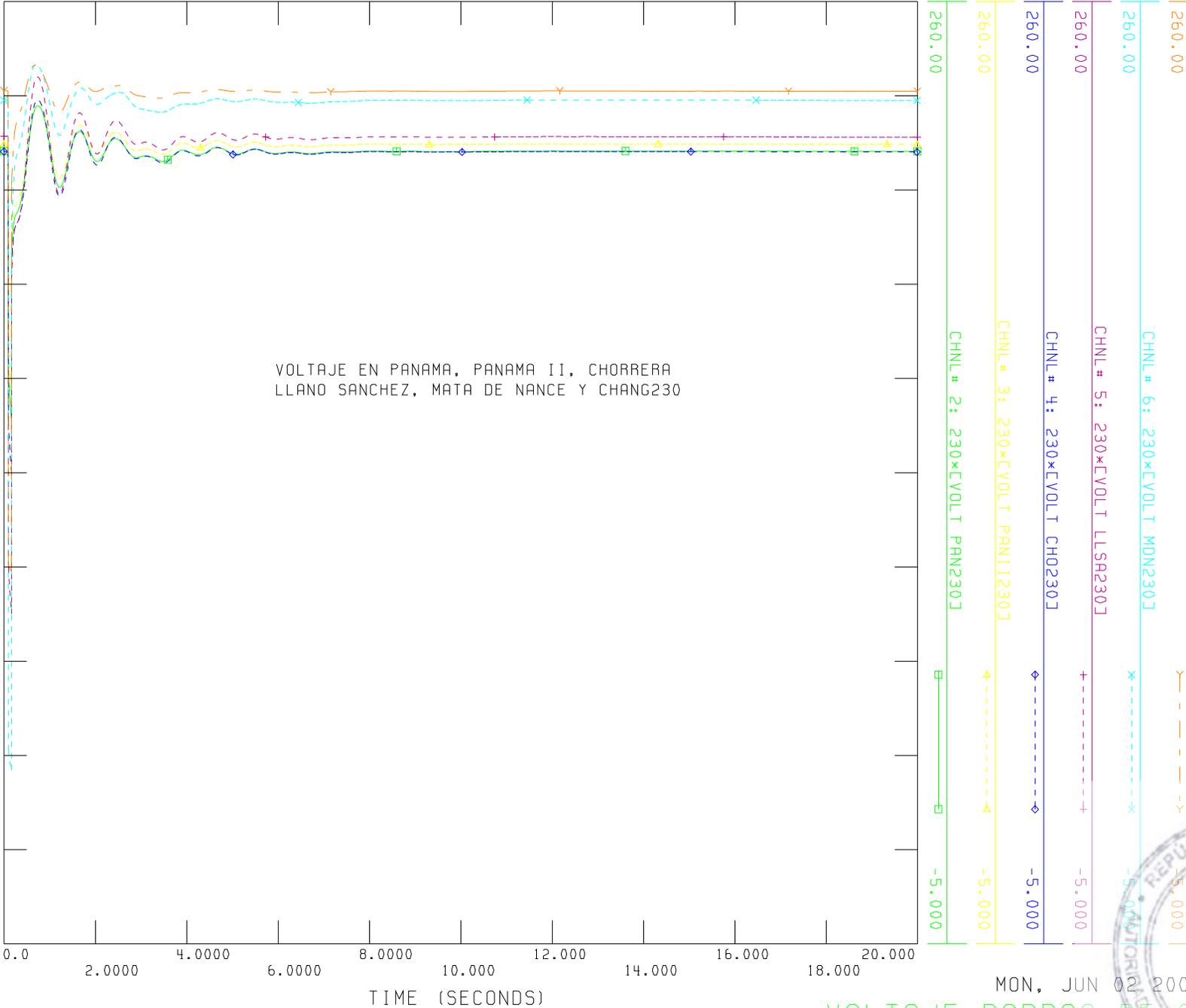
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MON, JUN 02 2008 9:04
FRECUENCIA EN HZ



FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InyGas4.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA
LLANO SANCHEZ, MATA DE NANCE Y CHANG230



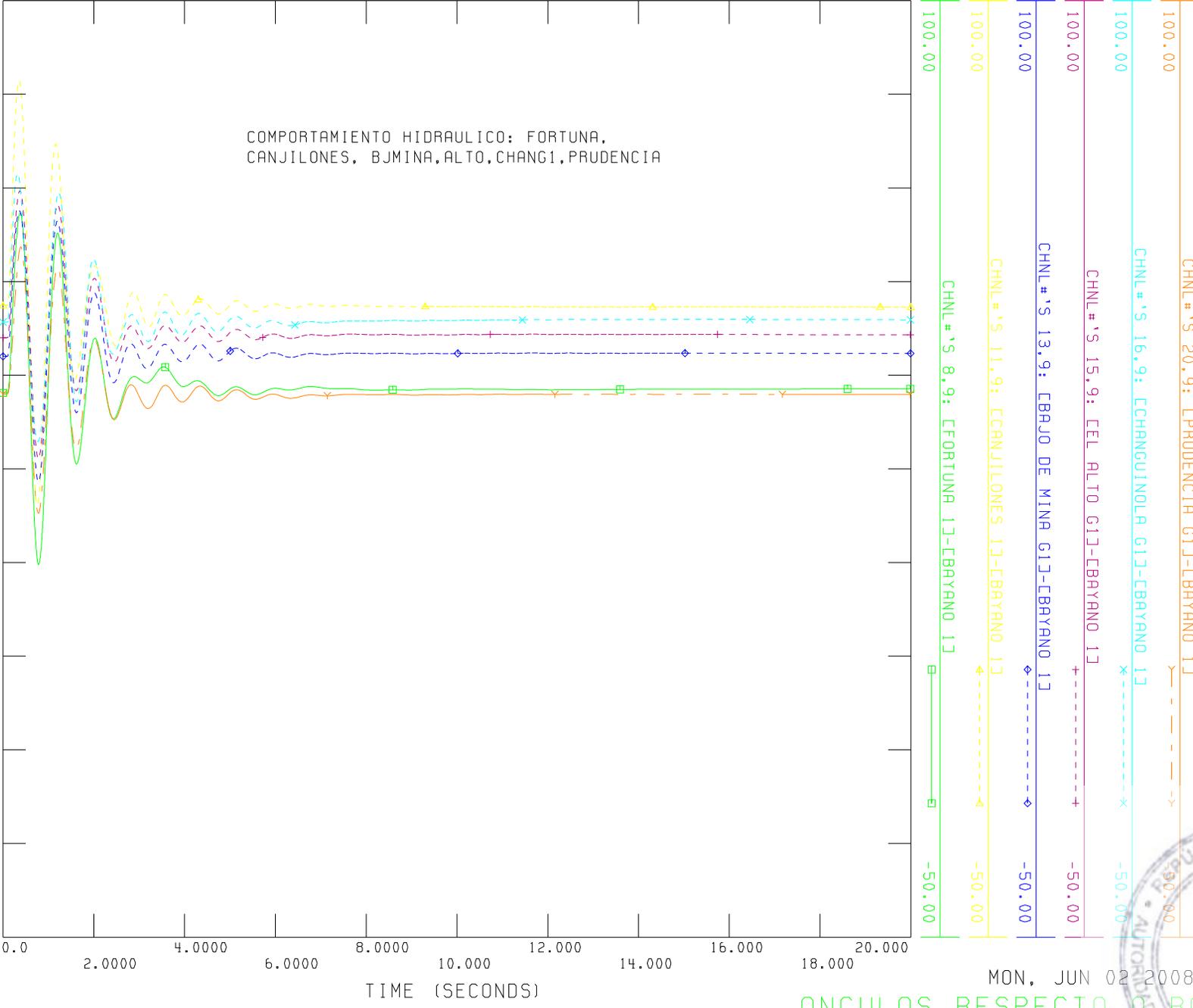
MON, JUN 02 2008 9:07

VOLTAJE BARRAS DE 230 KV



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvBas4.out



MON, JUN 02 2008 9:13

ANGULOS RESPECTO A BAYANO

Handwritten signature



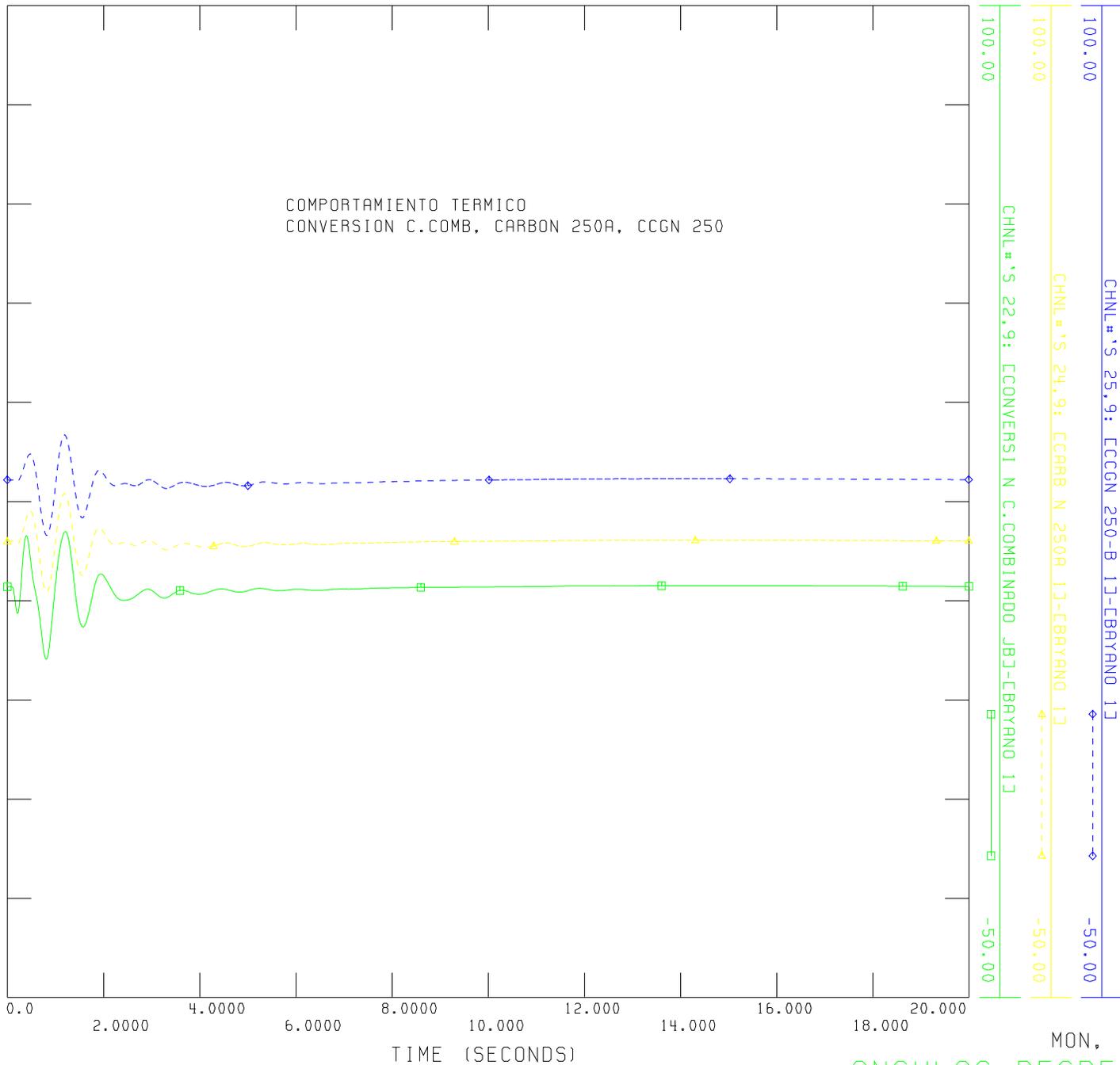
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGas4.out



MON, JUN 02 2008 9:15

ANGULOS RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO**

Caso 2: REGMHTGDC8



de

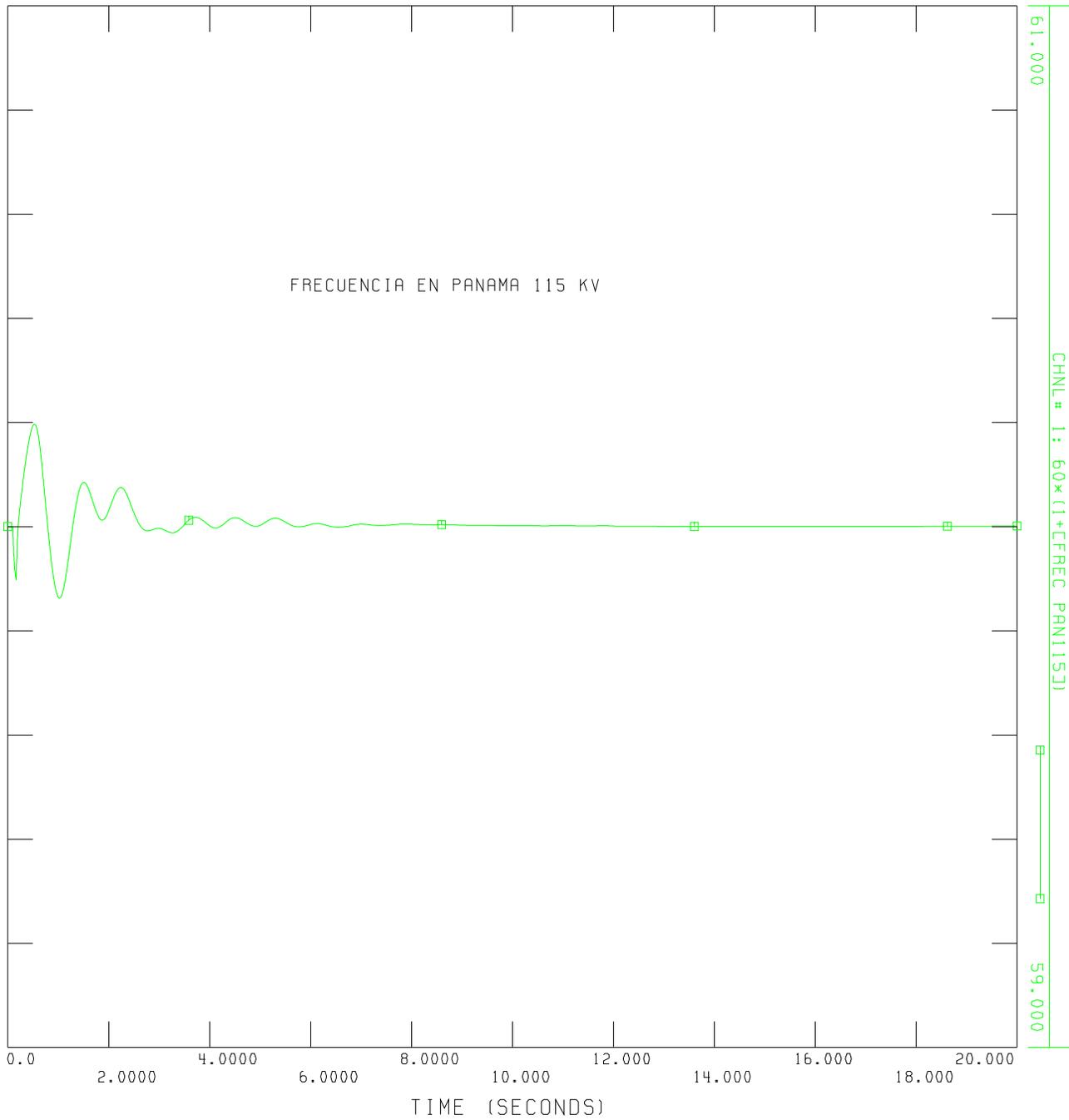


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

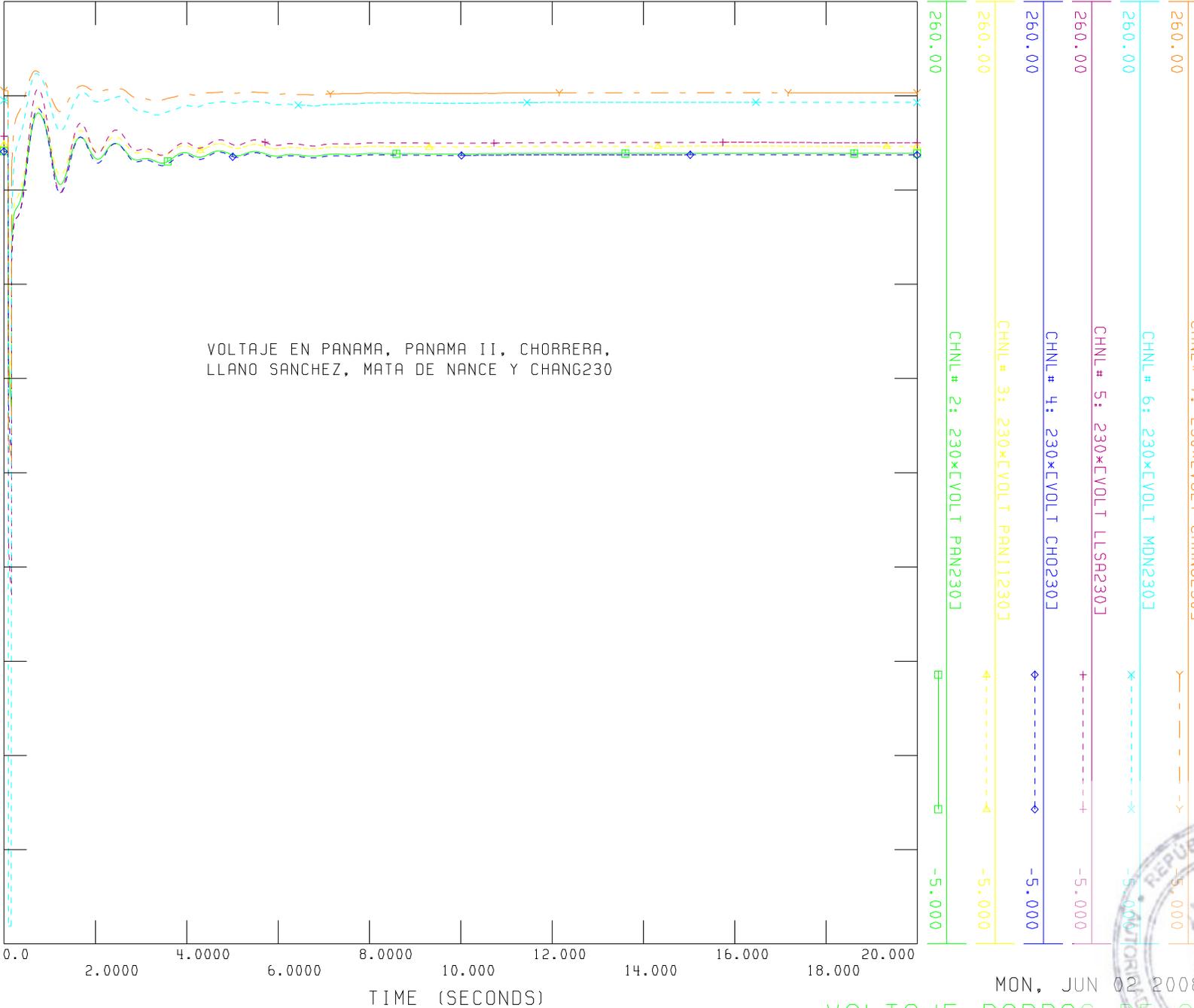
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MON, JUN 02 2008 9:28
FRECUENCIA EN HZ



FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvBas5.out



MON, JUN 02 2008 9:33

VOLTAJE BARRAS DE 230 KV

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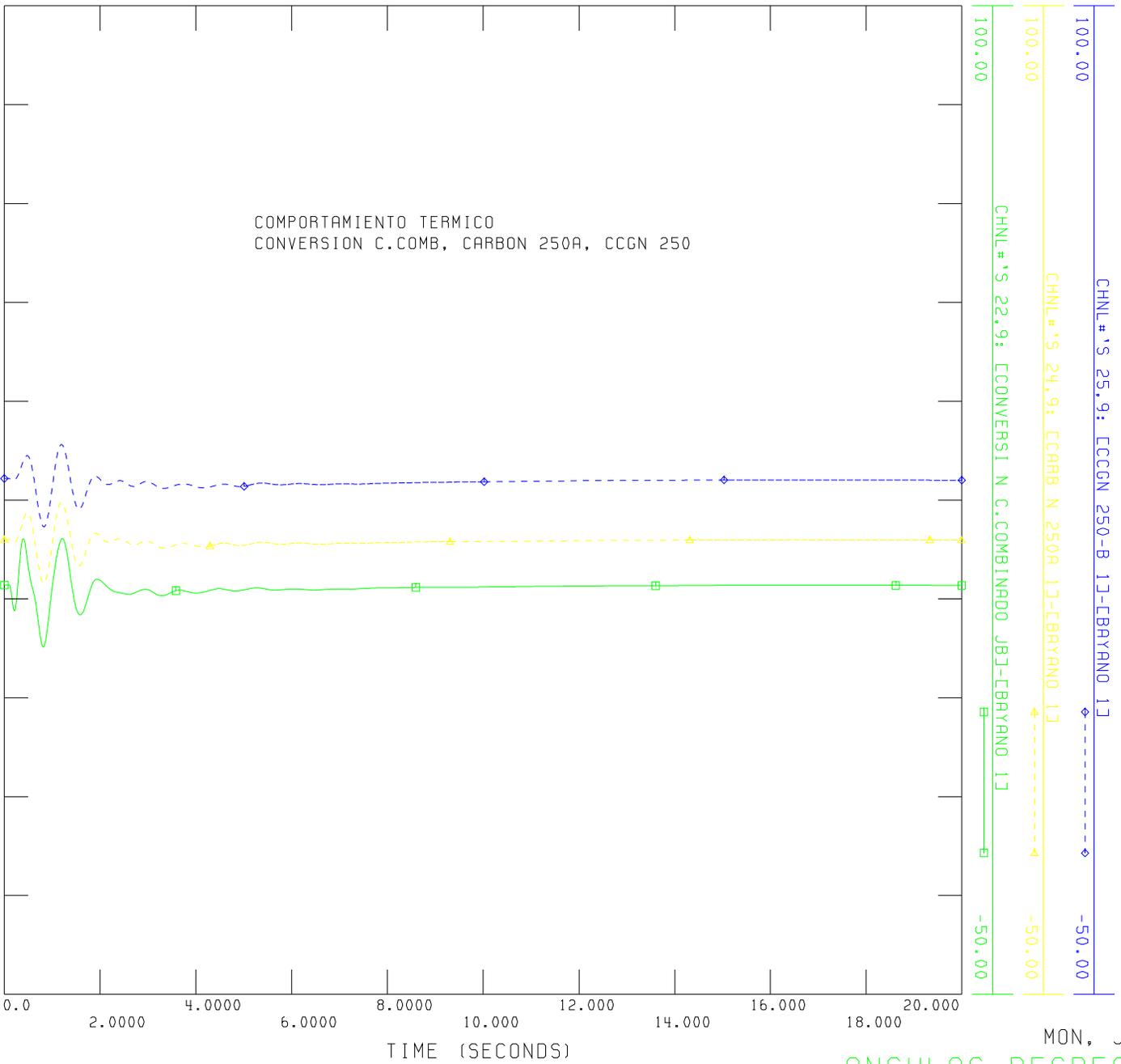


SEVERE POWER
INTERMEDIATE

PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGass.out

COMPORTAMIENTO TERMICO
CONVERSION C.COMB, CARBON 250A, CCGN 250



MON, JUN 02 2008 9:59

ANGULOS RESPECTO A BAYANO



Handwritten signature or initials.

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA – PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO**

Caso 2: REGMHTGDC8



de

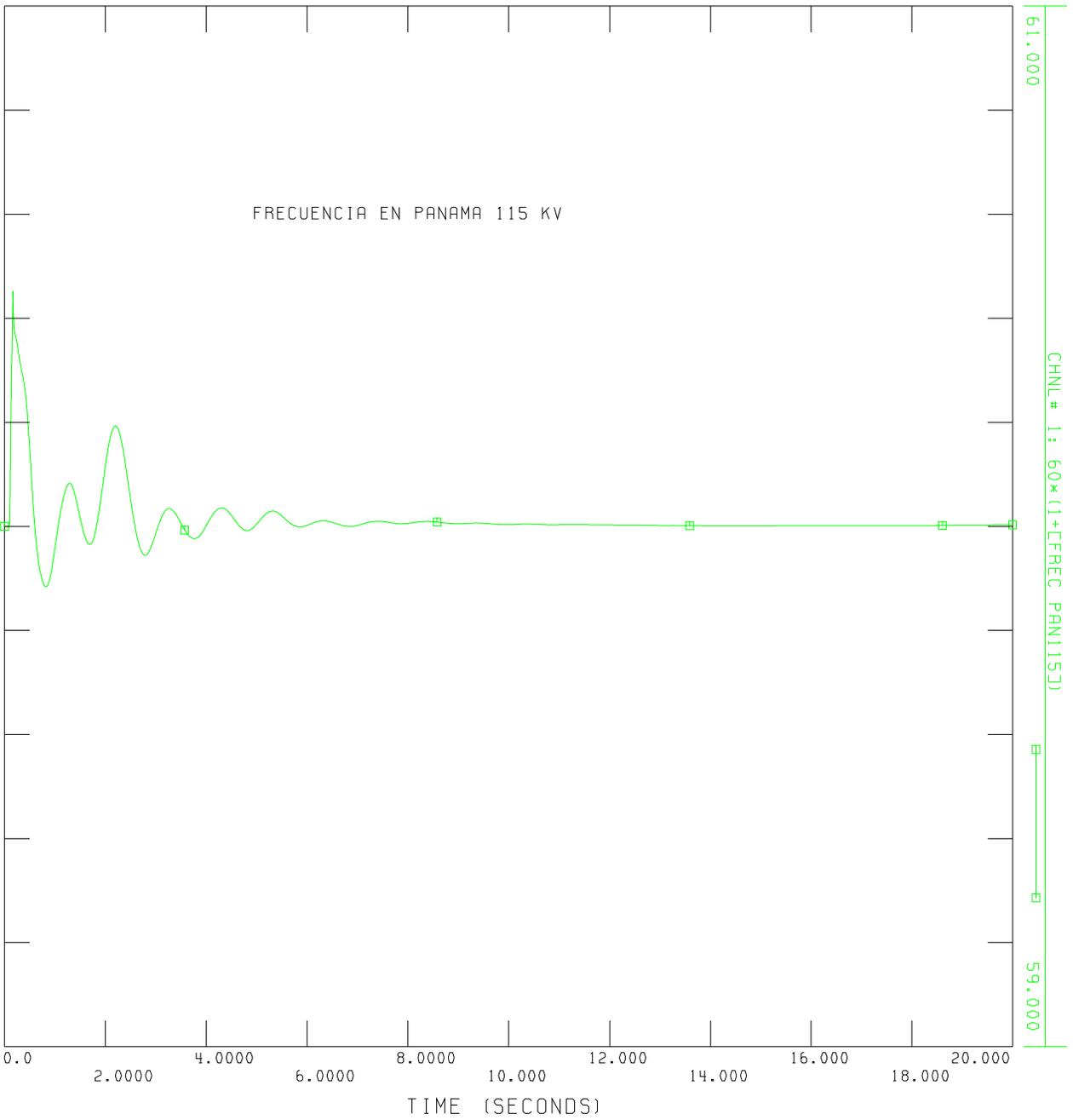


PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 RECMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGas6.out

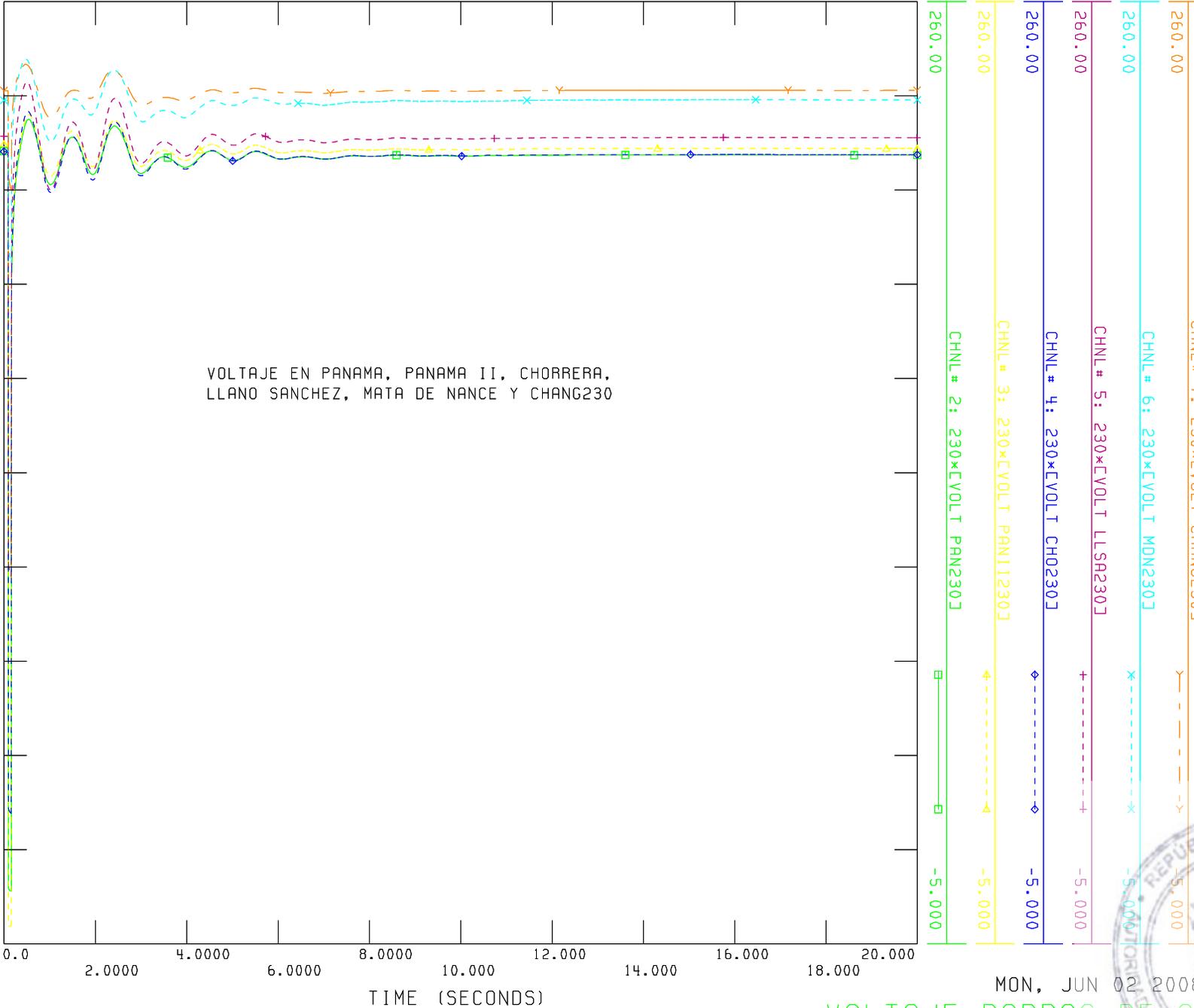


MON, JUN 02 2008 10:09
FRECUENCIA EN HZ



Handwritten signature or initials in the bottom right corner.

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvGas6.out



VOLTAJE EN PANAMA, PANAMA II, CHORRERA,
LLANO SANCHEZ, MATA DE NANCE Y CHANG230

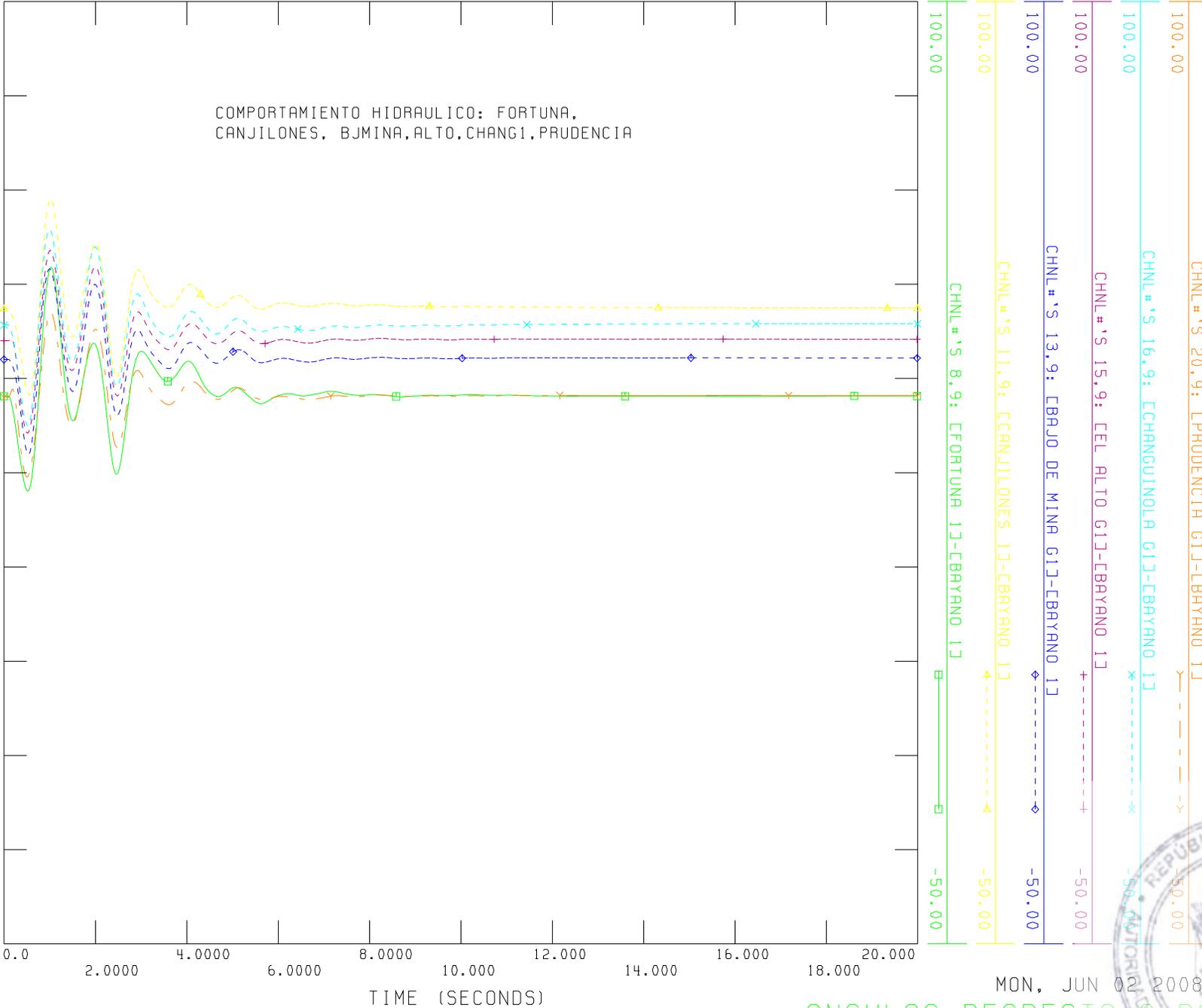


MON, JUN 02 2008 10:12

VOLTAJE BARRAS DE 230 KV

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FILE: C:\Disco F\PlaneExpansion\2008\Dynamics\2021PE_ModMax-InvBas6.out



MON, JUN 02 2008 10:16

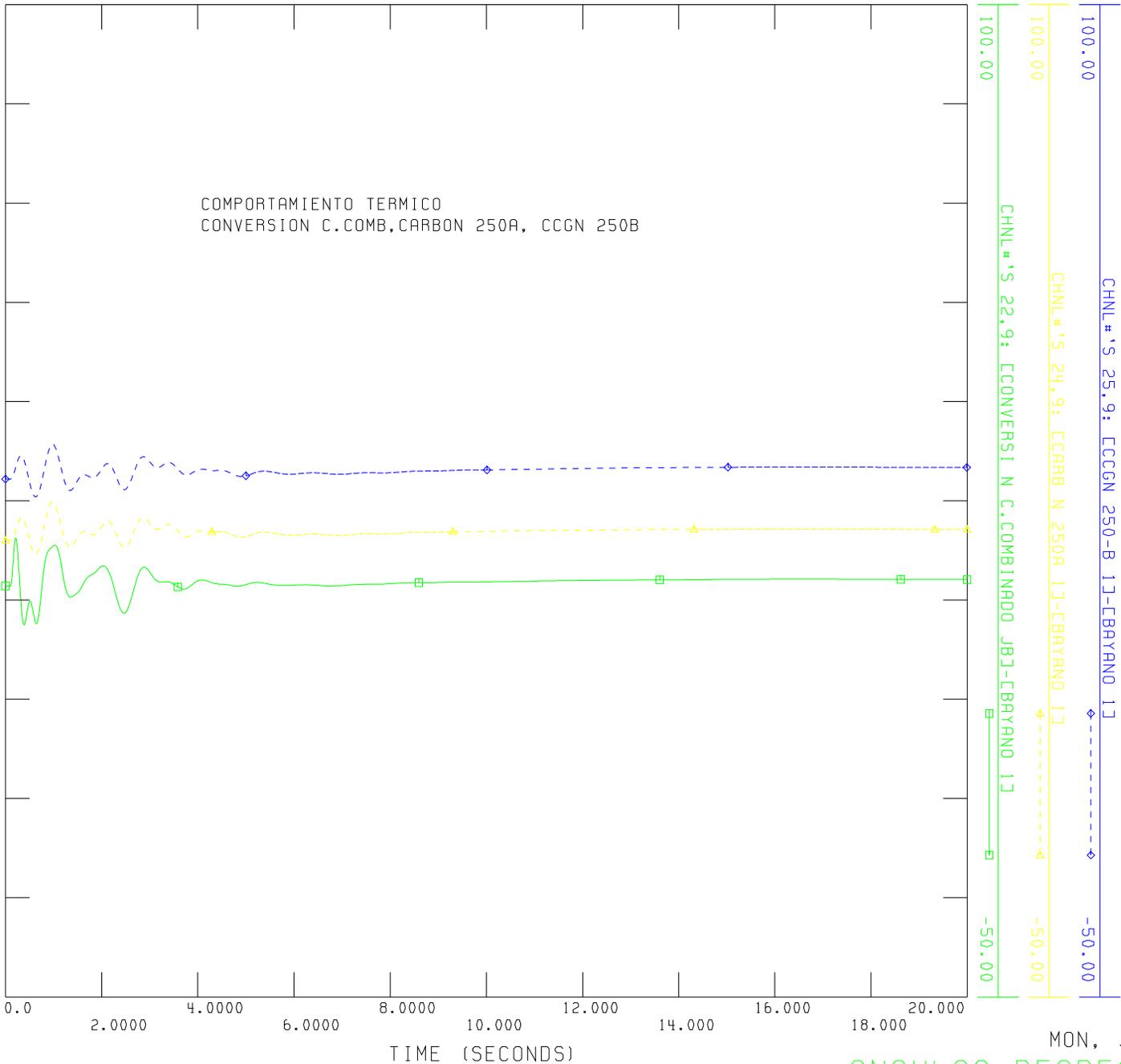
ANGULOS RESPECTO A BAYANO

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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTGDC8

FILE: C:\Disco F\PlanExpansi n2008\Dynamics\2021PE_ModMax-InvCas6.out



MON, JUN 02 2008 10:18

ANGULOS RESPECTO A BAYANO

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA PACORA - PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**



de



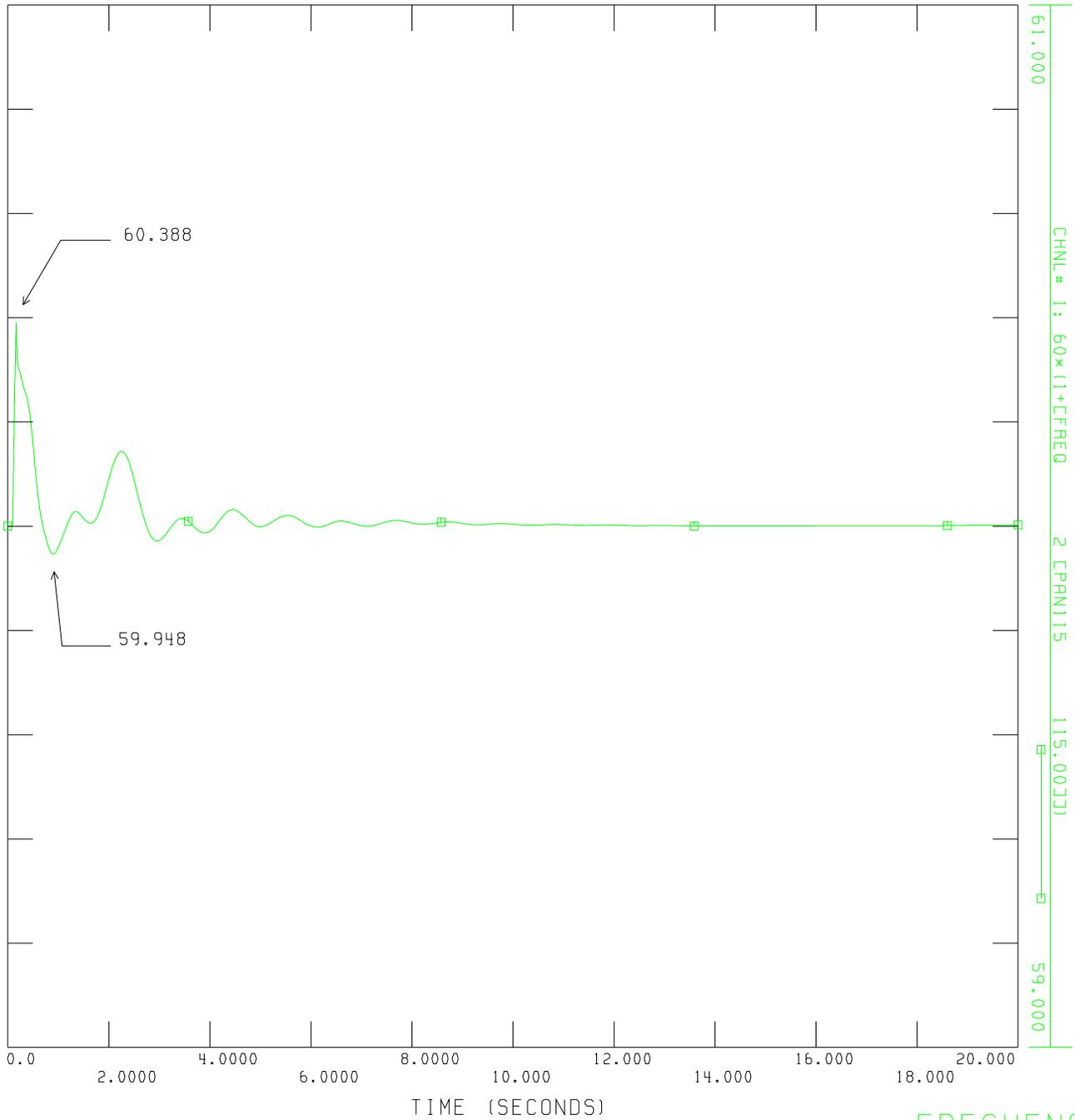
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

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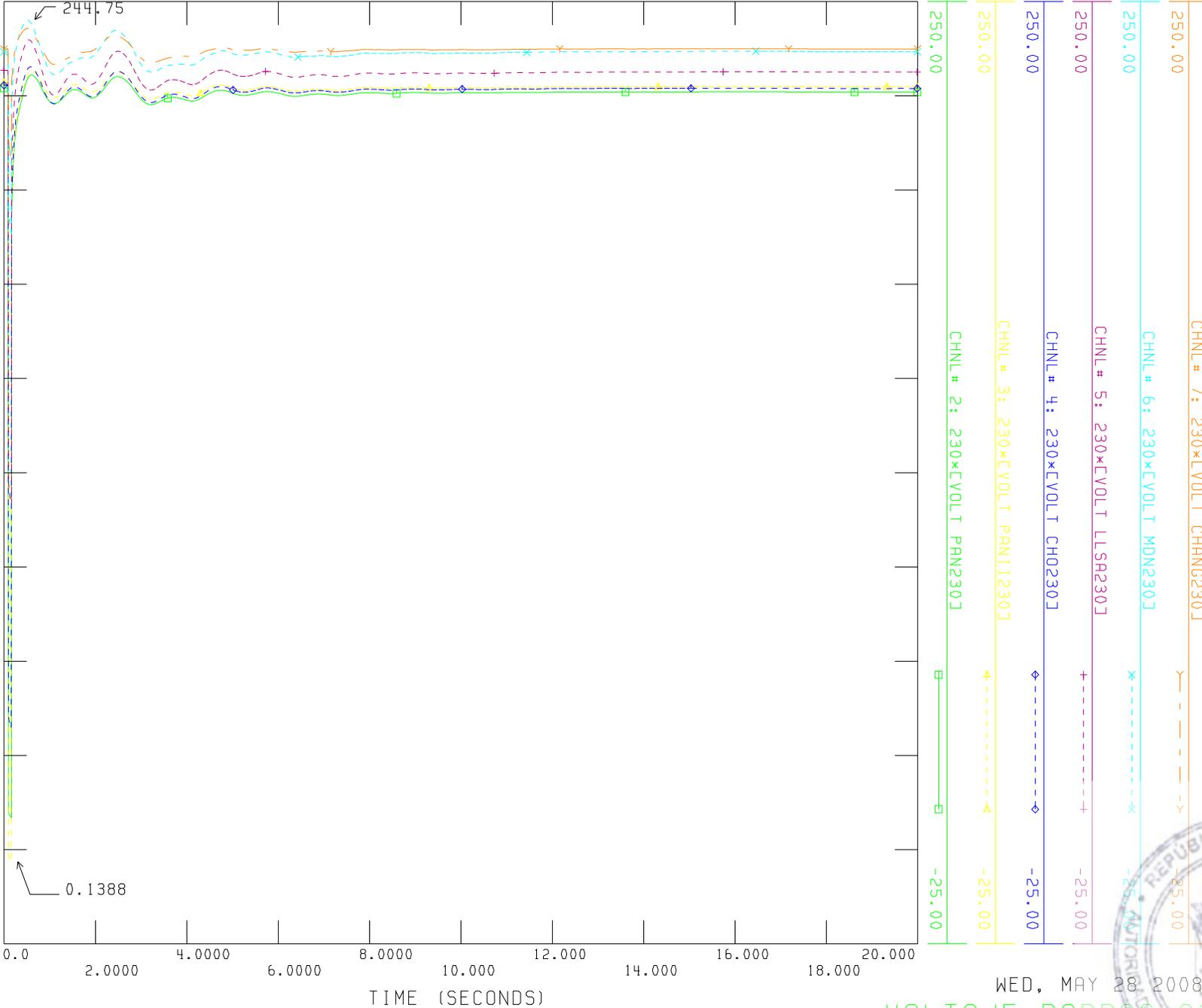


WED, MAY 28 2008 13:48

FRECUENCIA PANAMA 115 KV



FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont1.out



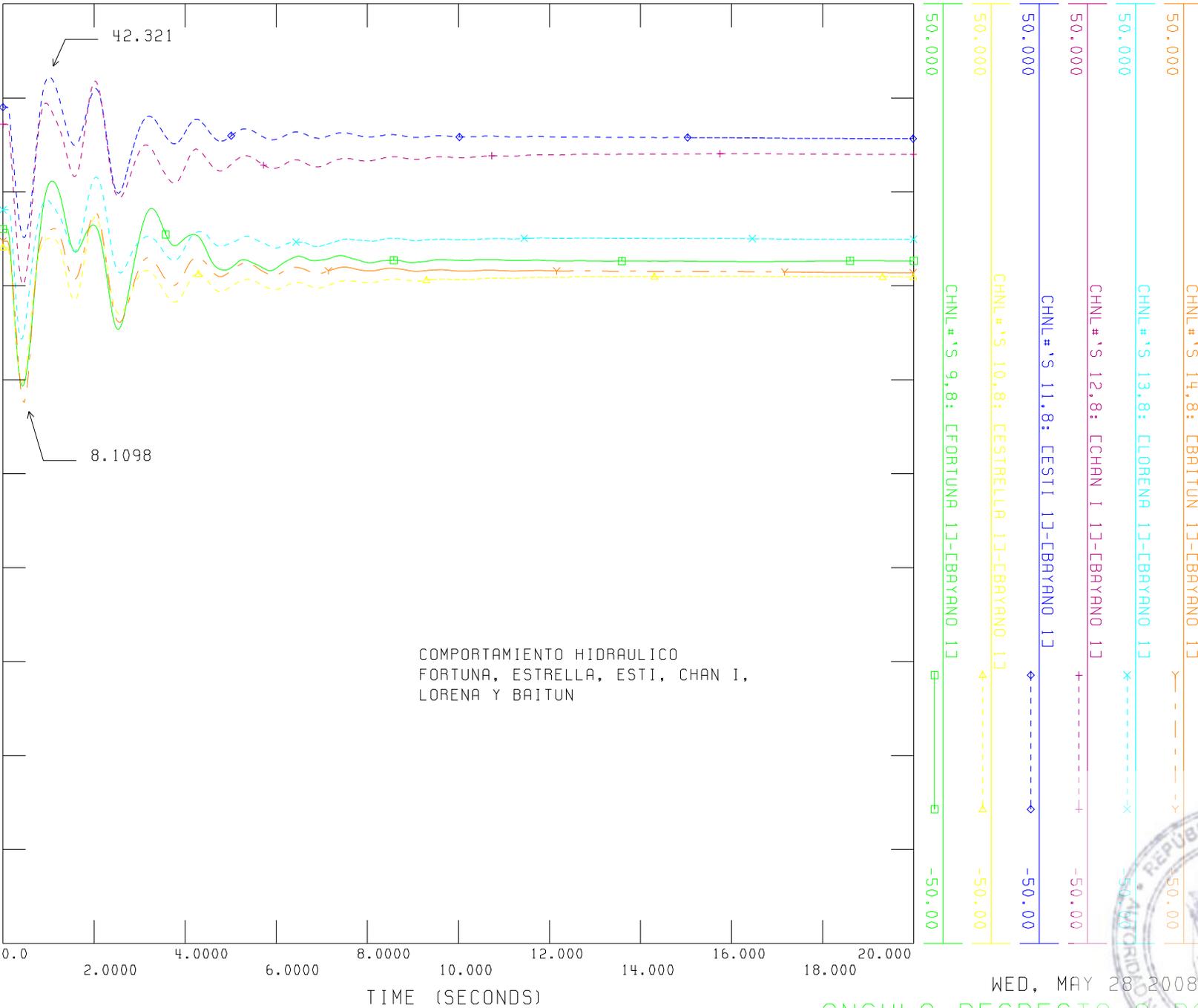
WED, MAY 28 2008 13:51
VOLTAGE BARRAS 230 KV

Handwritten signature or initials.



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

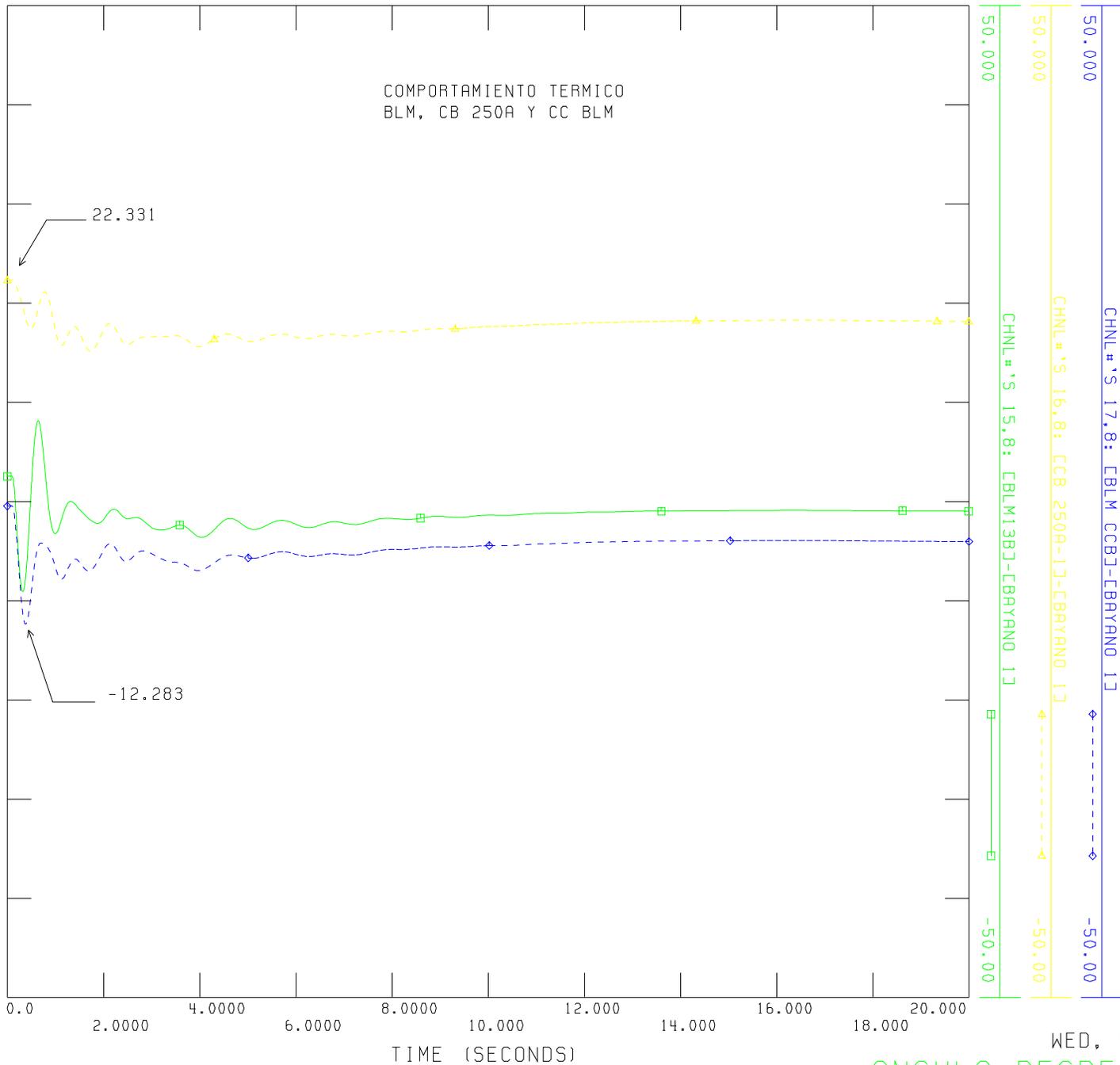
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WED, MAY 28 2008 13:54

ANGULO RESPECTO A BAYANO

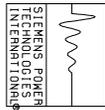
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**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA LLANO SÁNCHEZ - CHORRERA
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

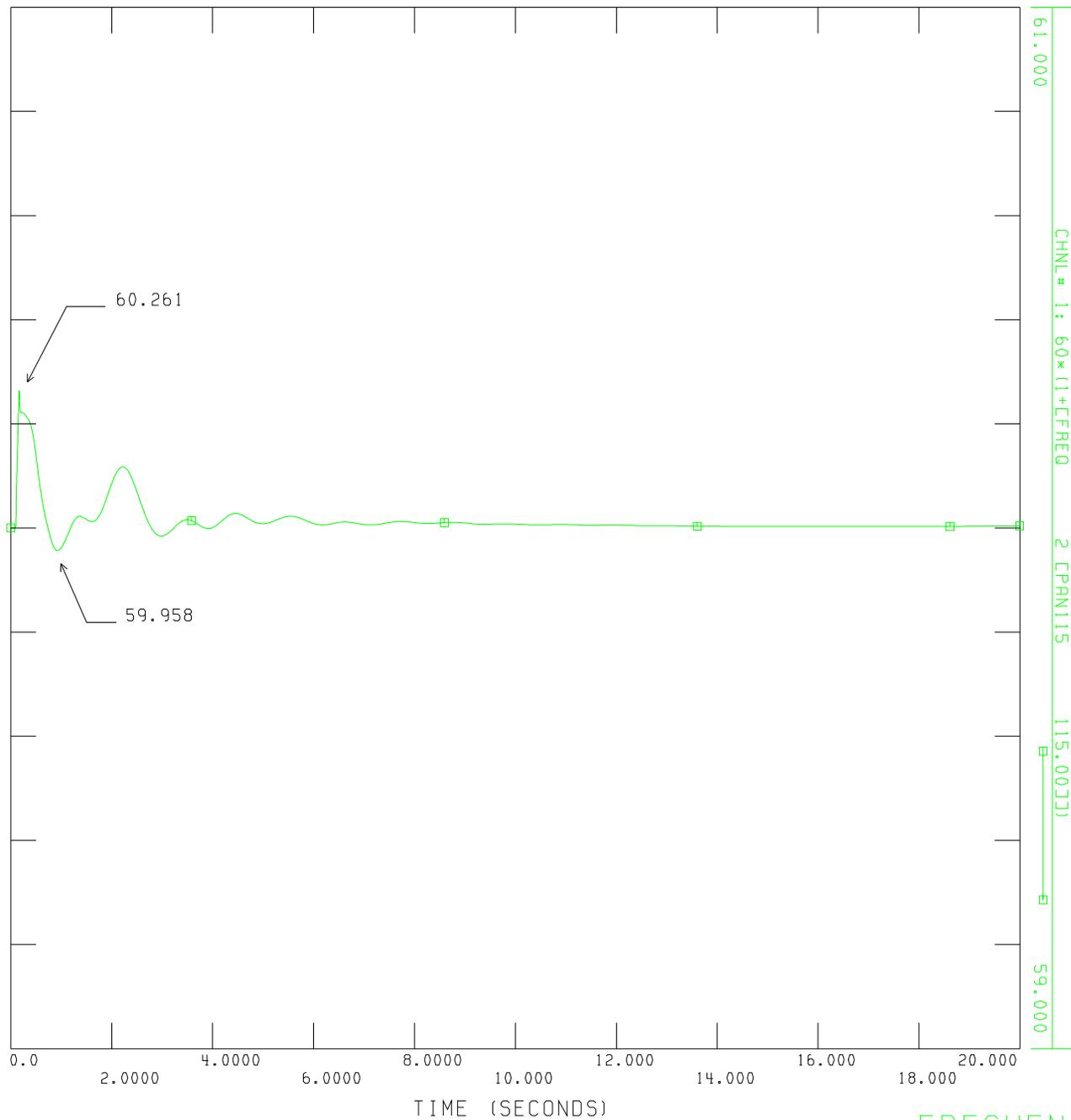


de



PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 CONT2.OUT



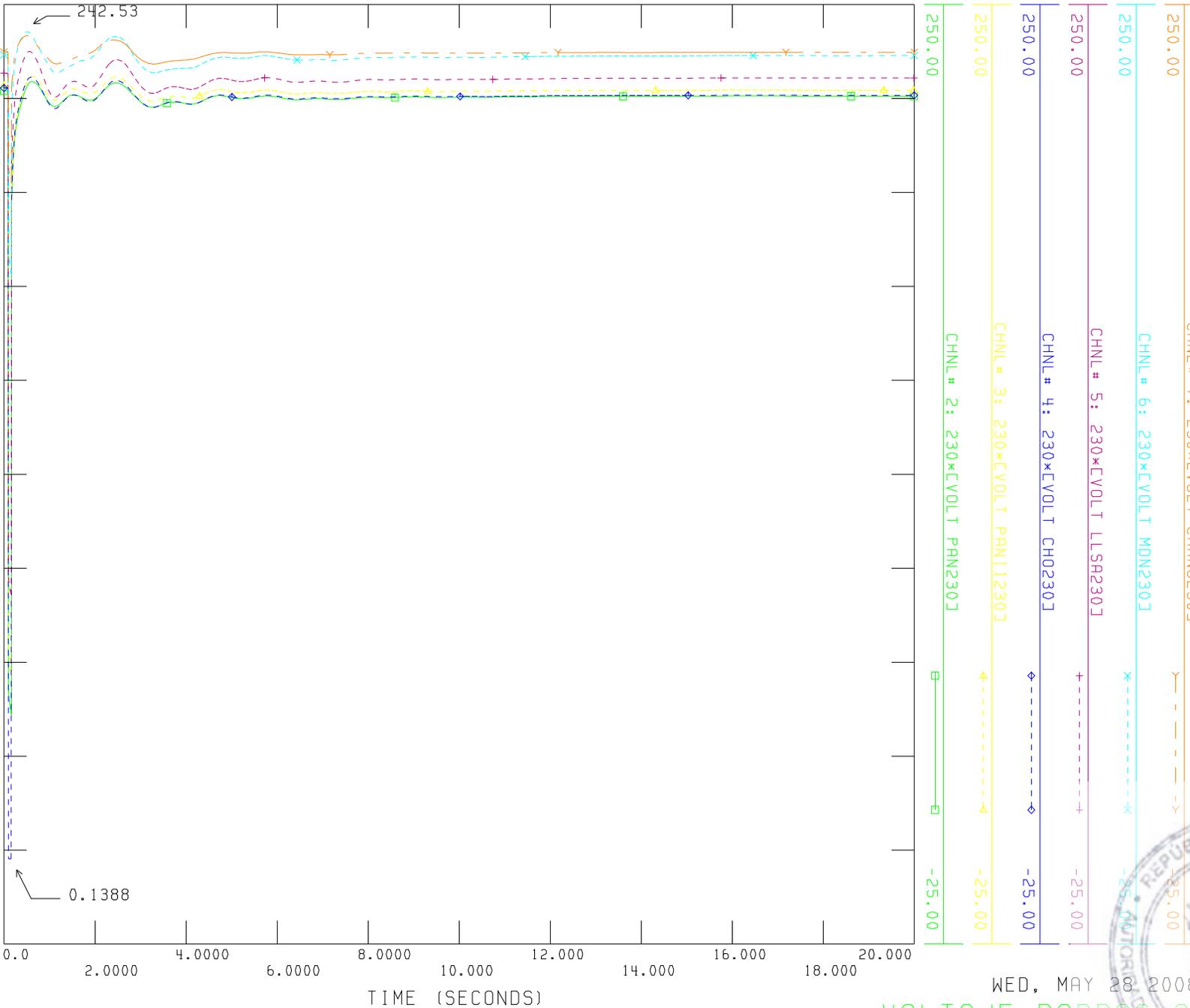
WED, MAY 28 2008 14:11

FRECUENCIA PANAMA 115 KV



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FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont2.out



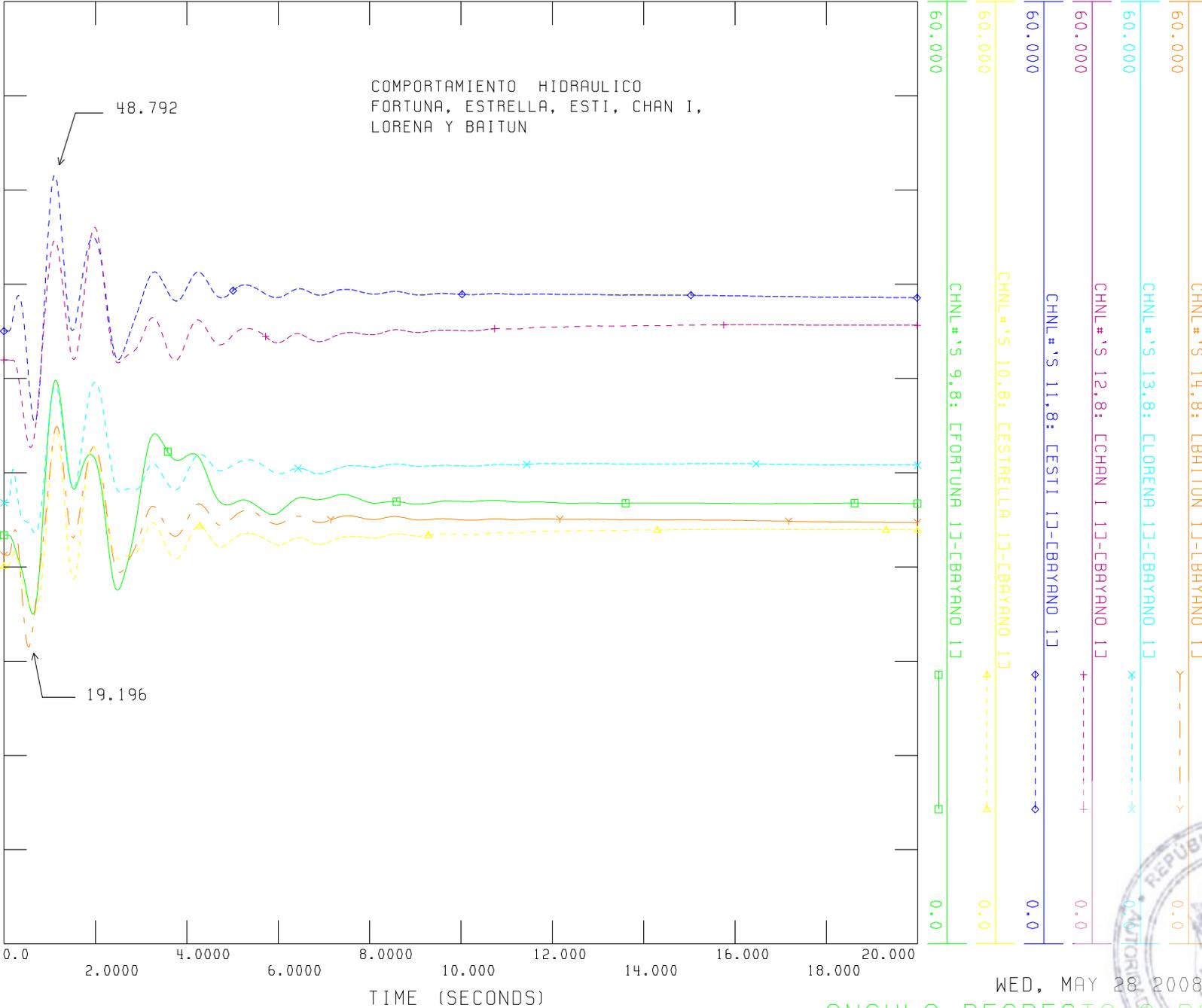
WED, MAY 28 2008 14:15

VOLTAJE BARRAS 230 KV



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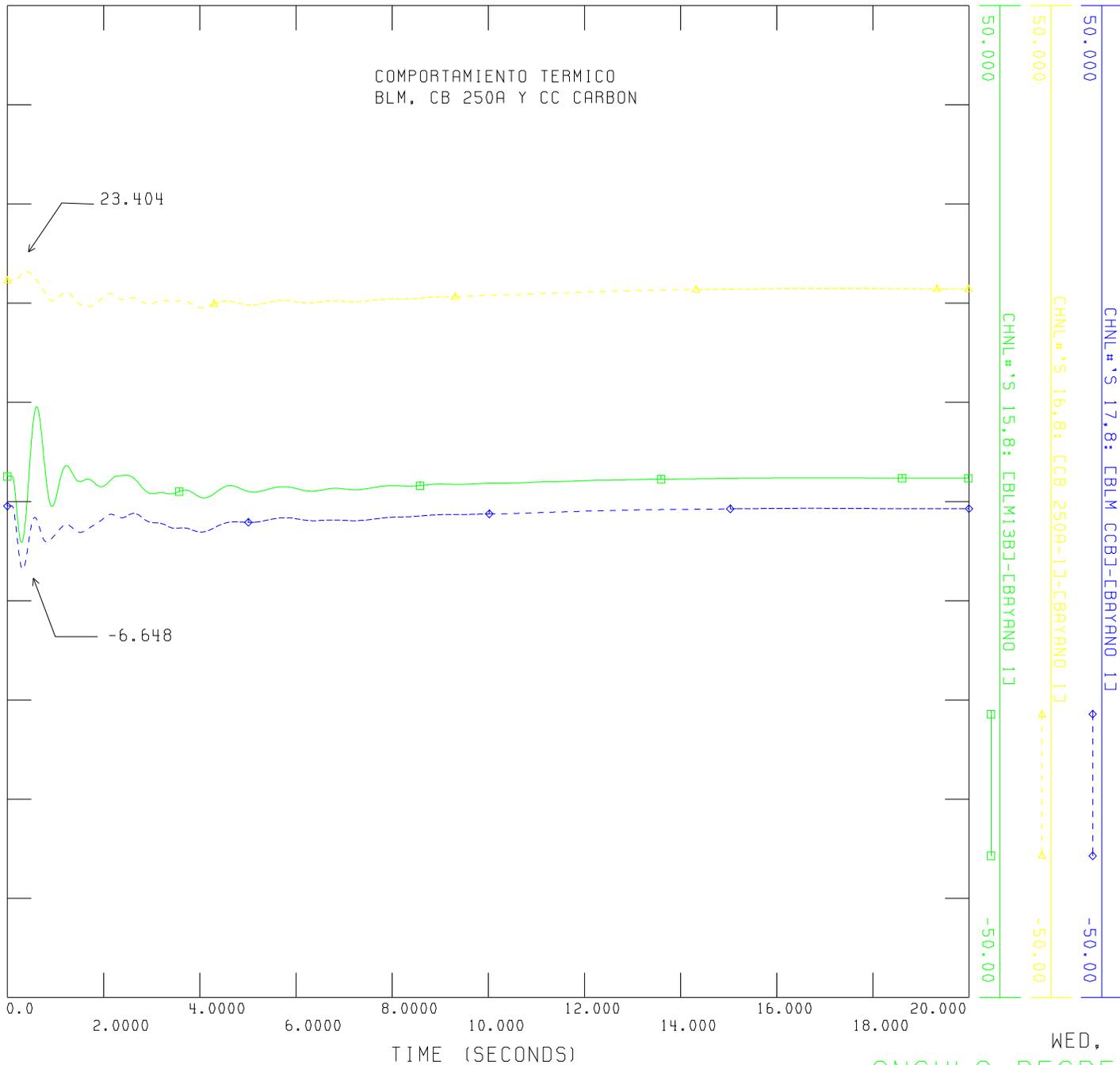
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WED, MAY 28 2008 14:20

ANGULO RESPECTO A BAYANO

Handwritten signature or initials.



ANGULO RESPECTO A BAYANO

Handwritten signature or initials.

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA GUASQUITAS - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**



de



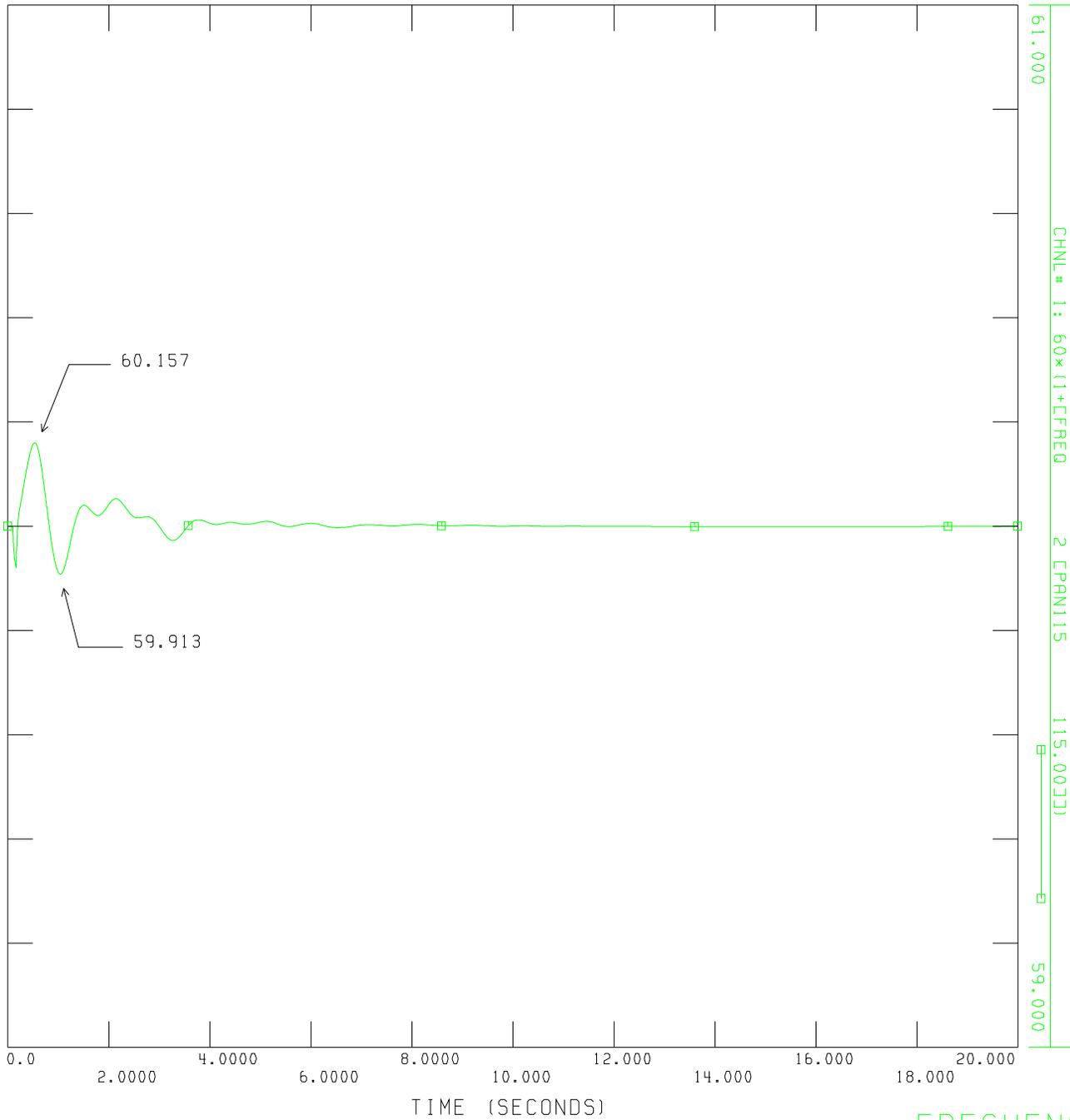
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLA8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLA8 ConT3.out



WED, MAY 28 2008 14:35

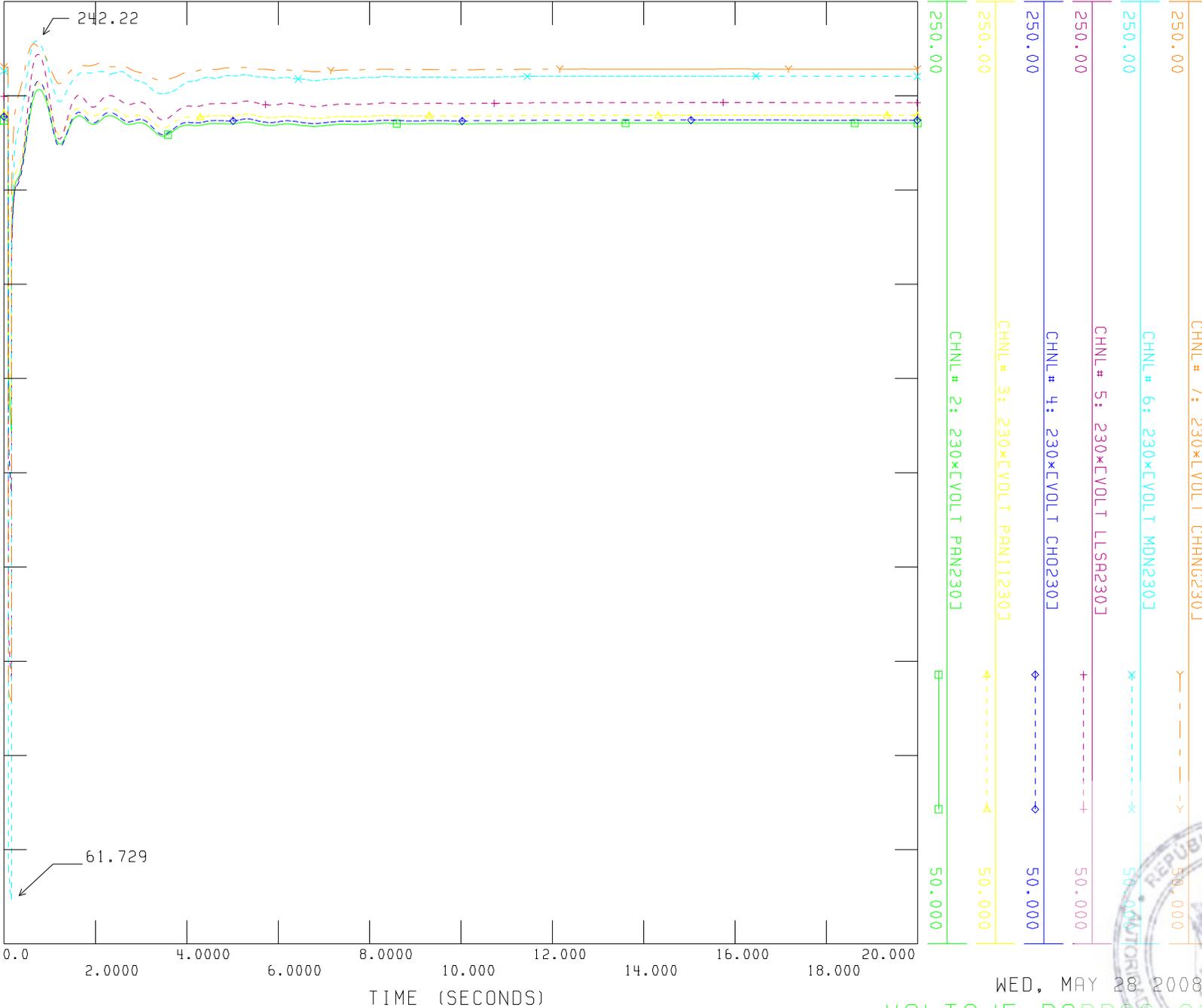
FRECUENCIA PANAMA 115 KV





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \VESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont3.out



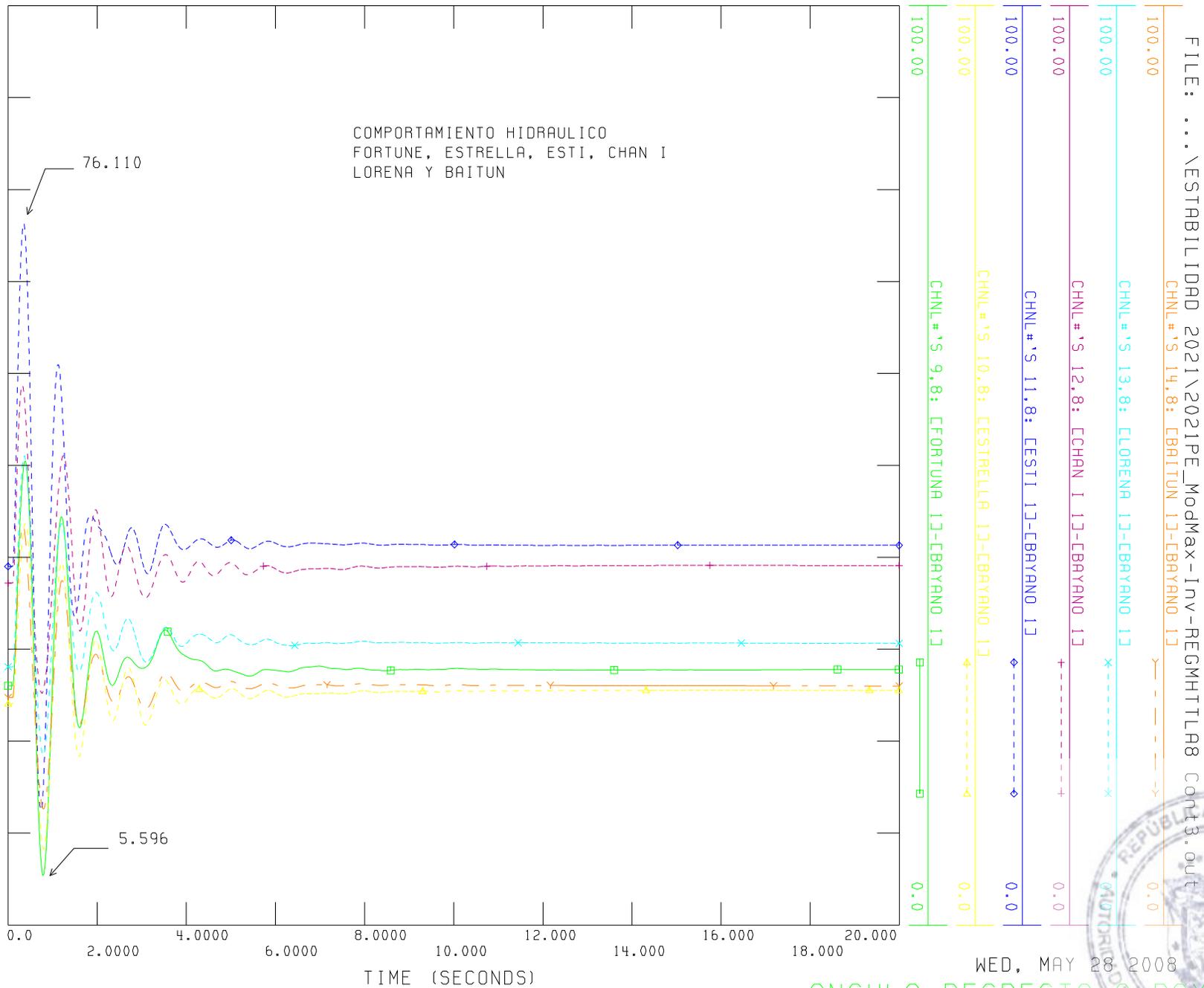
WED, MAY 28 2008 14:45

VOLTAGE BARRAS 230 KV





PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTTLR8

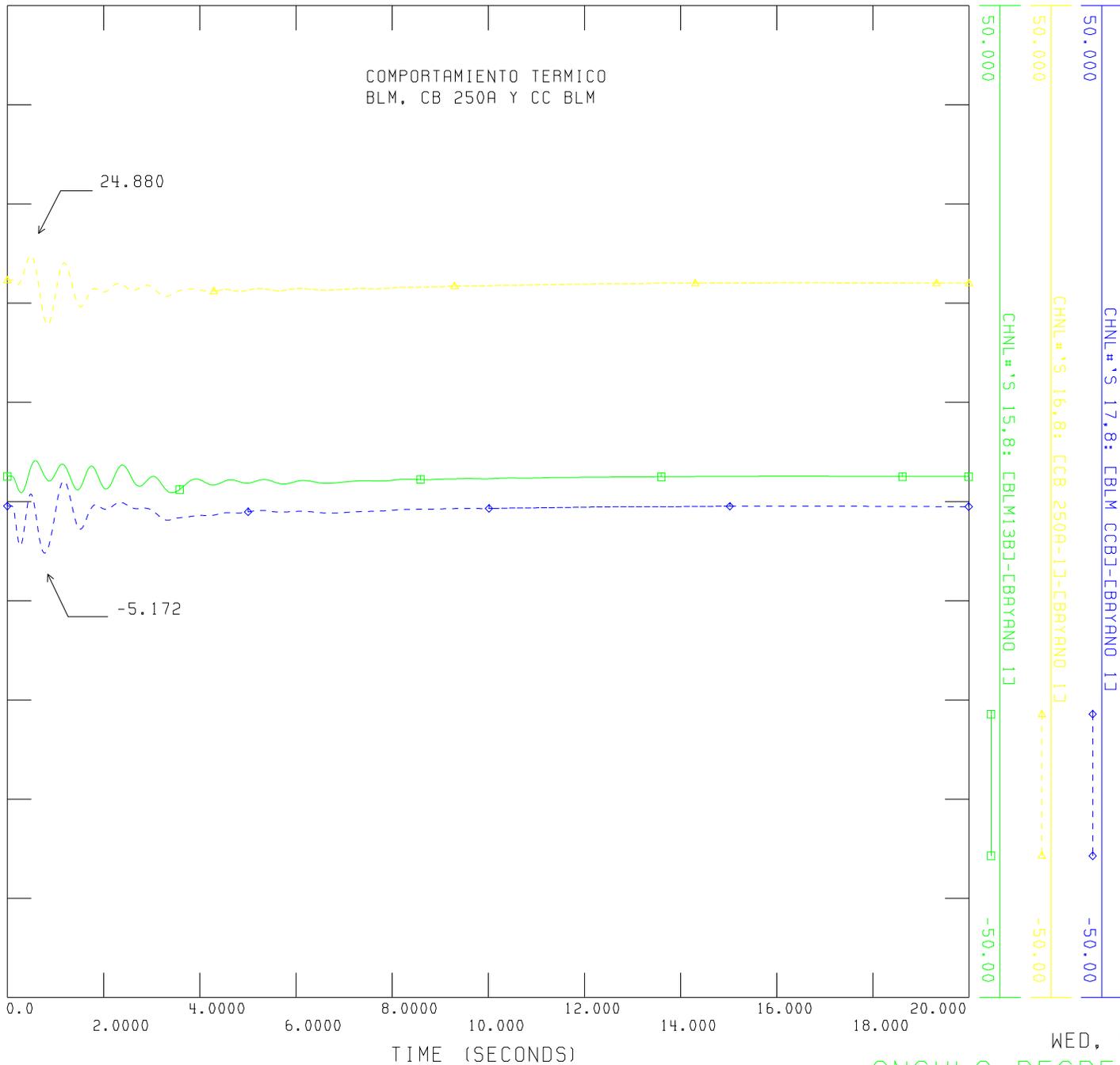


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WED, MAY 28 2008 15:17

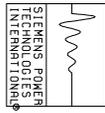
ANGULO RESPECTO A BAYANO



**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA FORTUNA - GUASQUITAS
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**

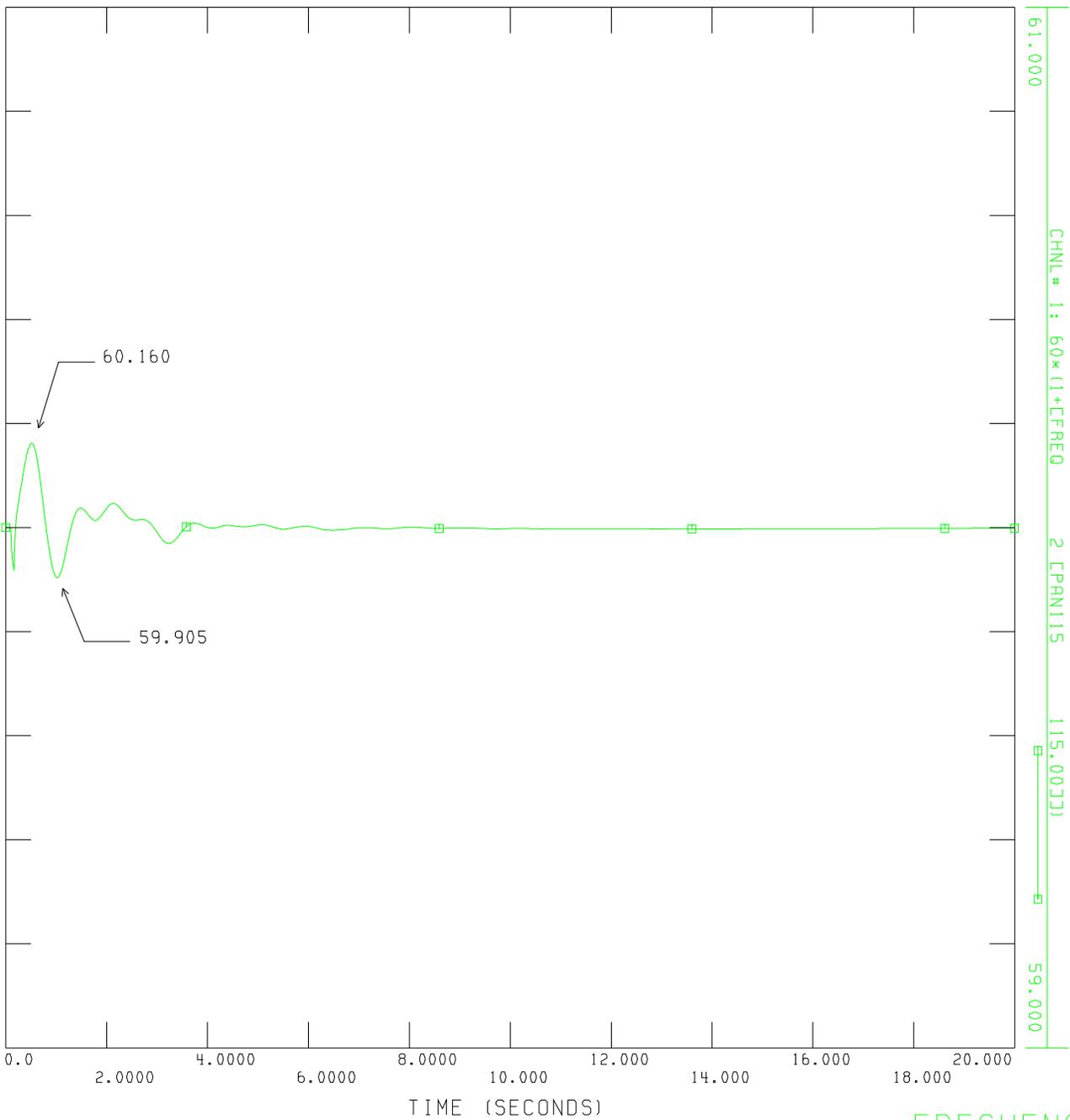


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 CONT4.OUT



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FRECUENCIA PANAMA 115 KV

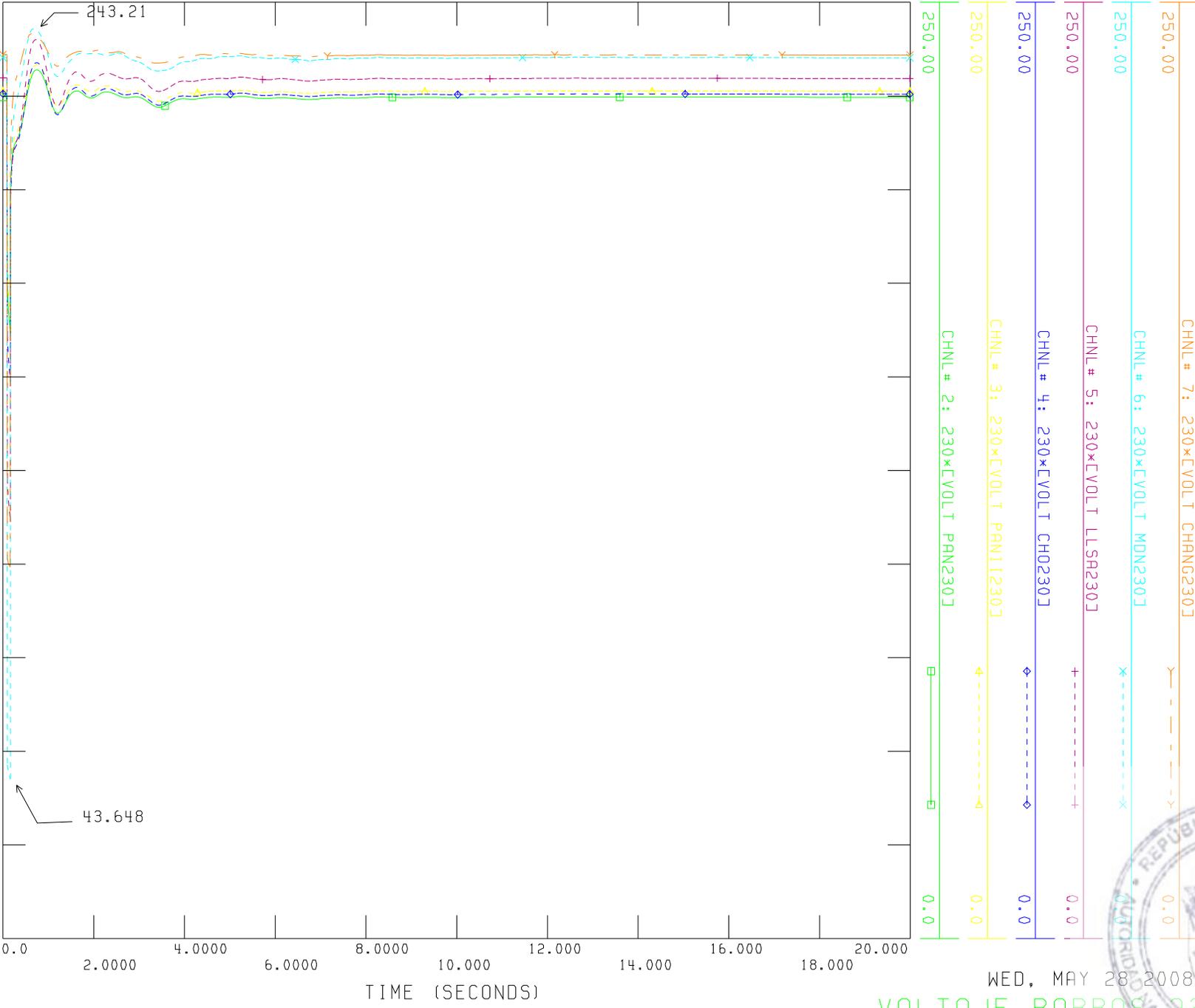


de



PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

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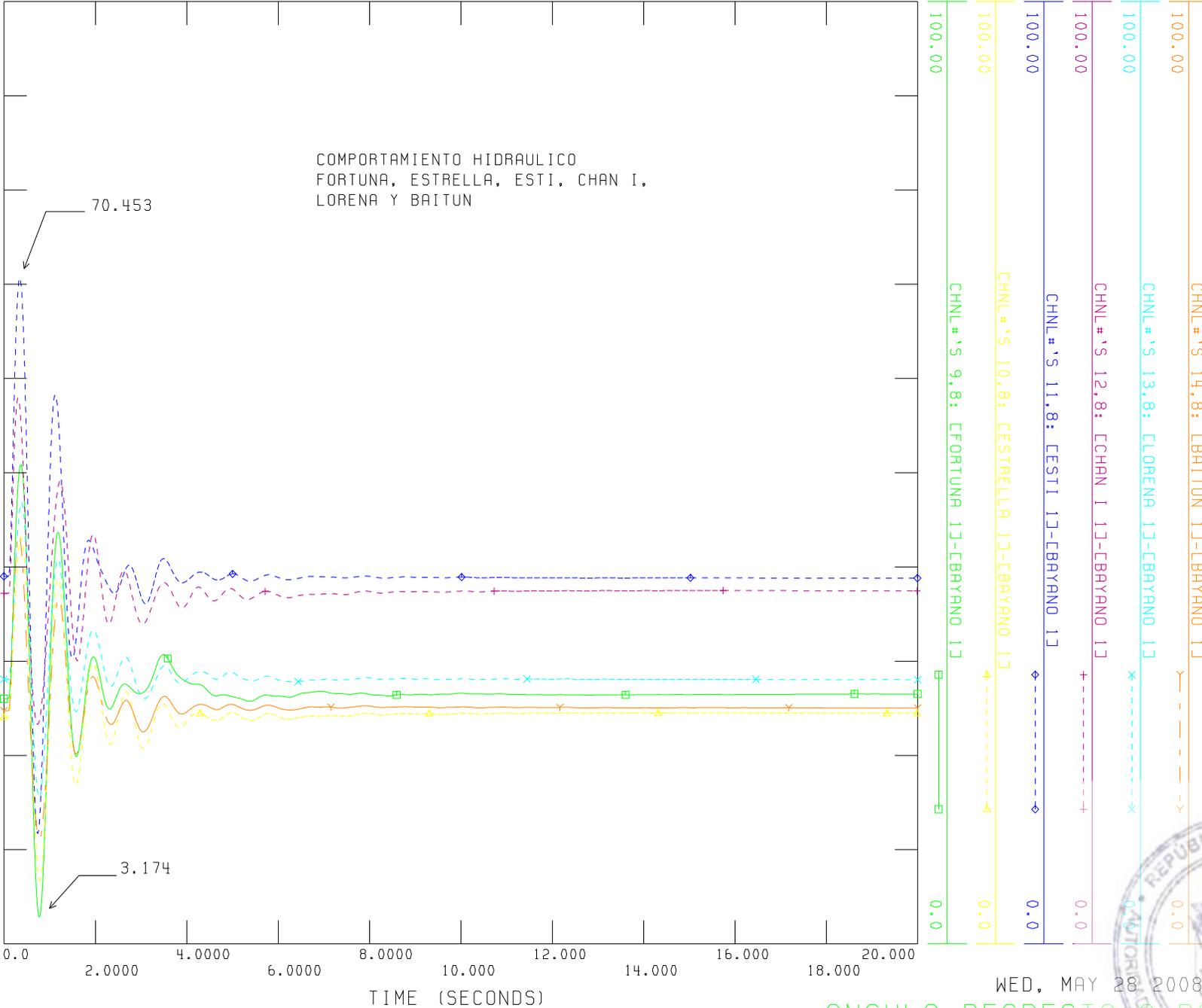


WED, MAY 28 2008 15:40

VOLTAJE BARRAS 230 KV

Handwritten signature

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Conth.out



WED, MAY 28 2008 15:48

ANGULO RESPECTO A BAYANO

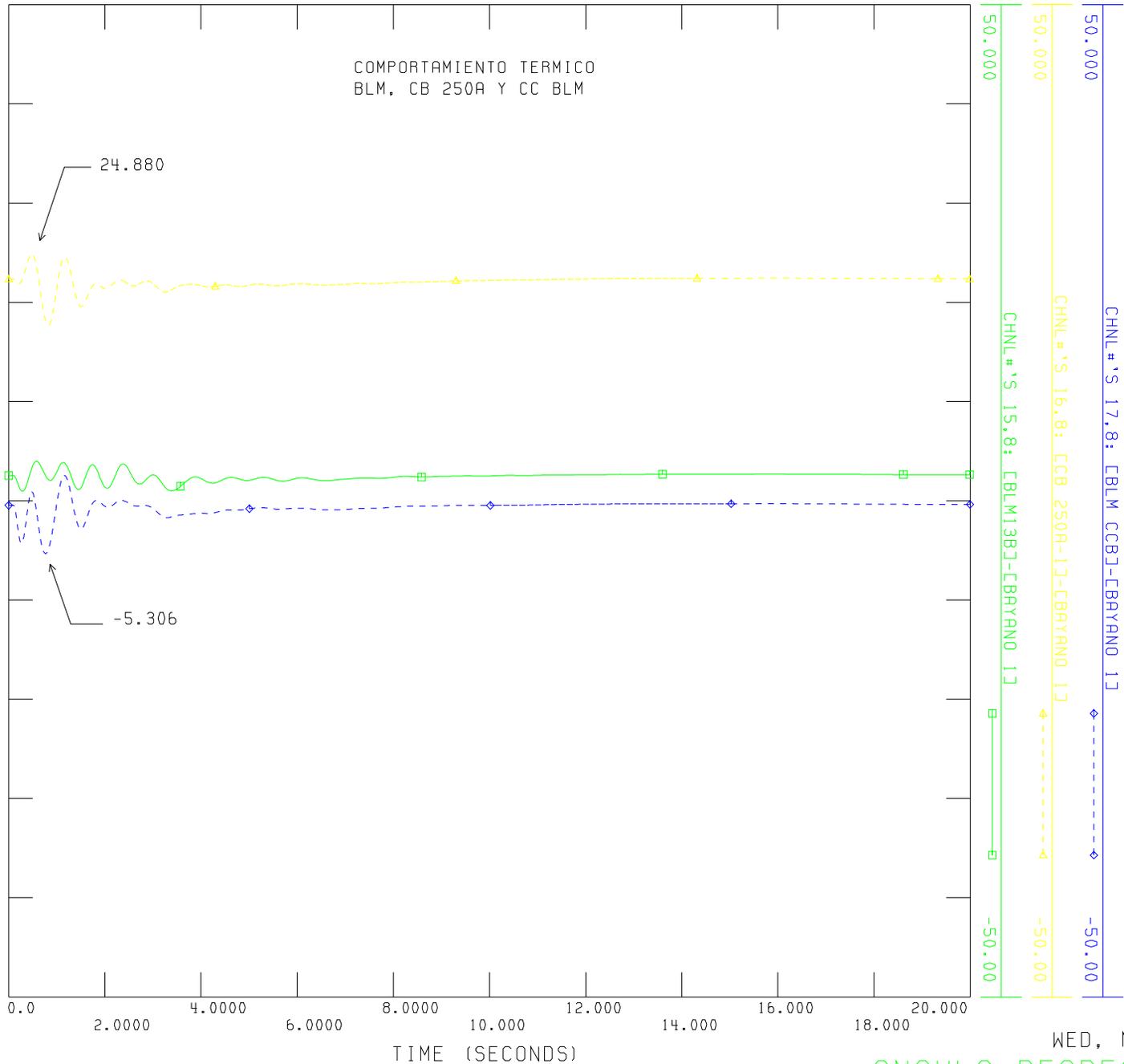


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PLAN. EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Contd.out



WED, MAY 28 2008 15:52

ANGULO RESPECTO A BAYANO



Handwritten signature

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA MATA DE NANCE - VELADERO
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**



de



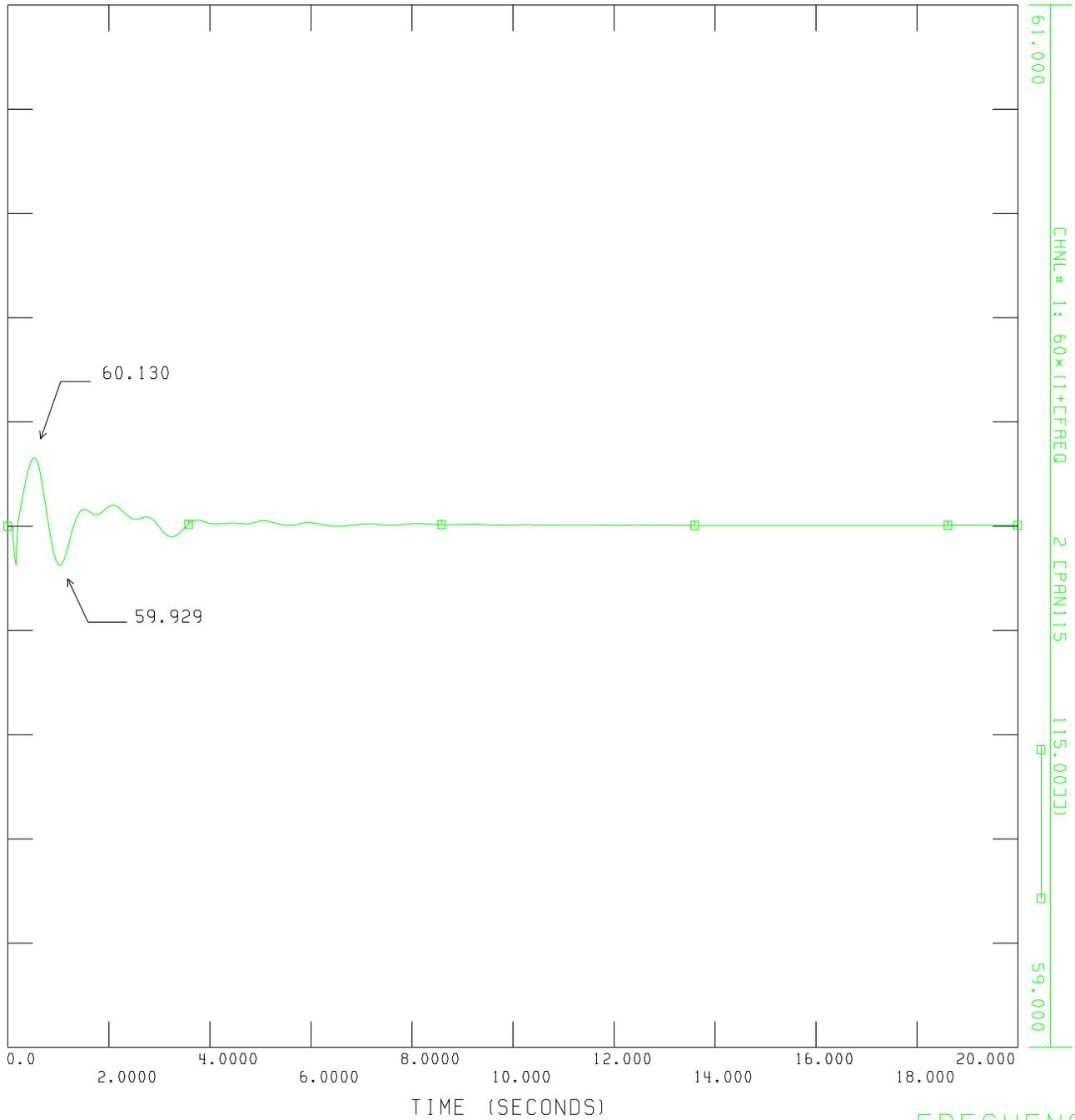
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLA8

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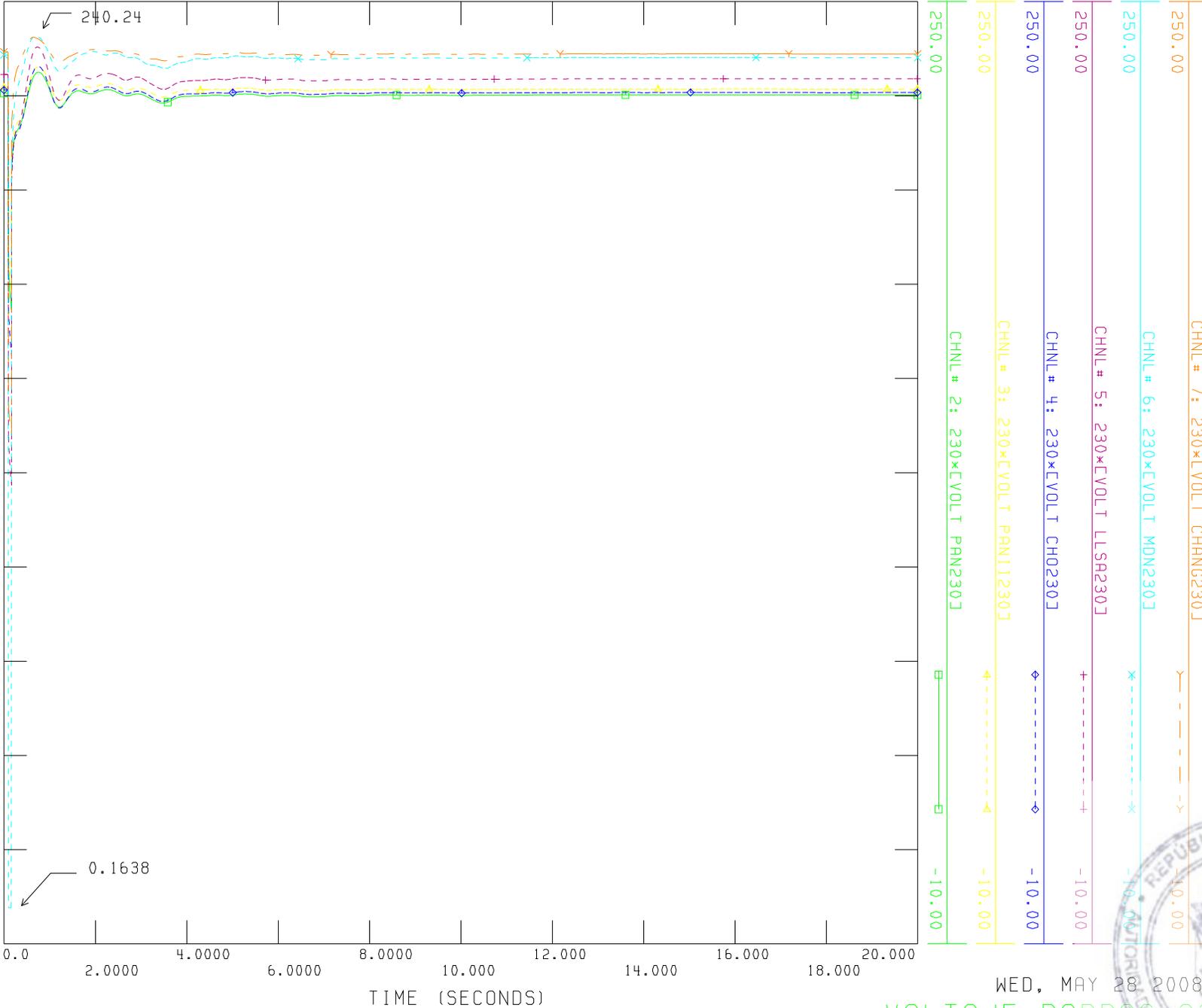


WED, MAY 28 2008 15:58

FRECUENCIA PANAMA 115 KV



FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLA8 ConTS.out



VOLTAJE BARRAS 230 KV

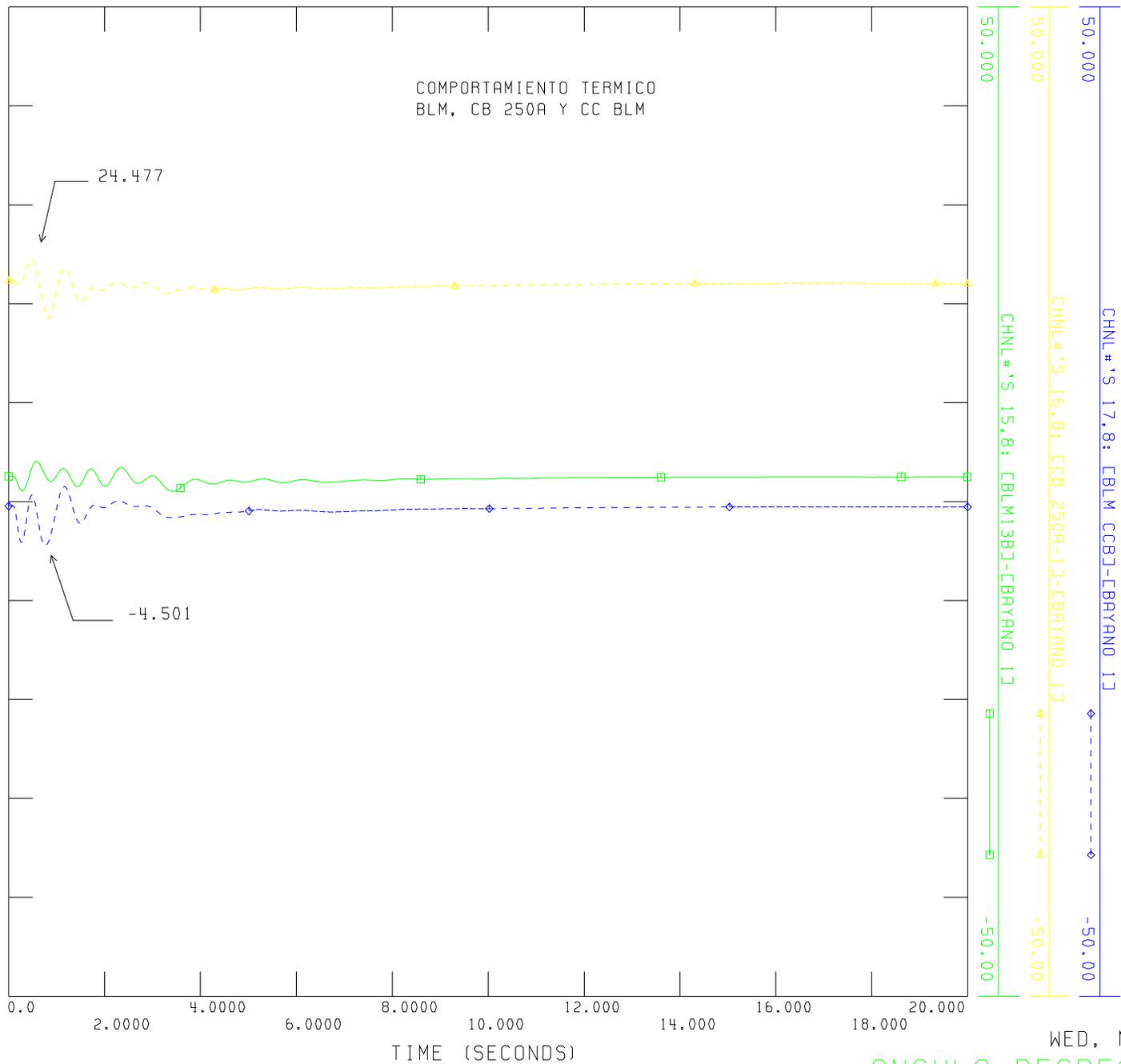


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PLAN: EXP-SIN CON C.R. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 CONTS. OUT



WED, MAY 28 2008 16:04

ANGULO RESPECTO A BAYANO

**AÑO 2021 ESTABILIDAD
FALLA Y APERTURA LINEA SANTA RITA - PANAMÁ II
PLAN DE EXPANSION DEL SIN CON CENTROAMERICA JUNIO DEL 2008
ESCENARIO MODERADO DEMANDA MAXIMA INVIERNO
Caso 3 REGMHTTLA8**



de



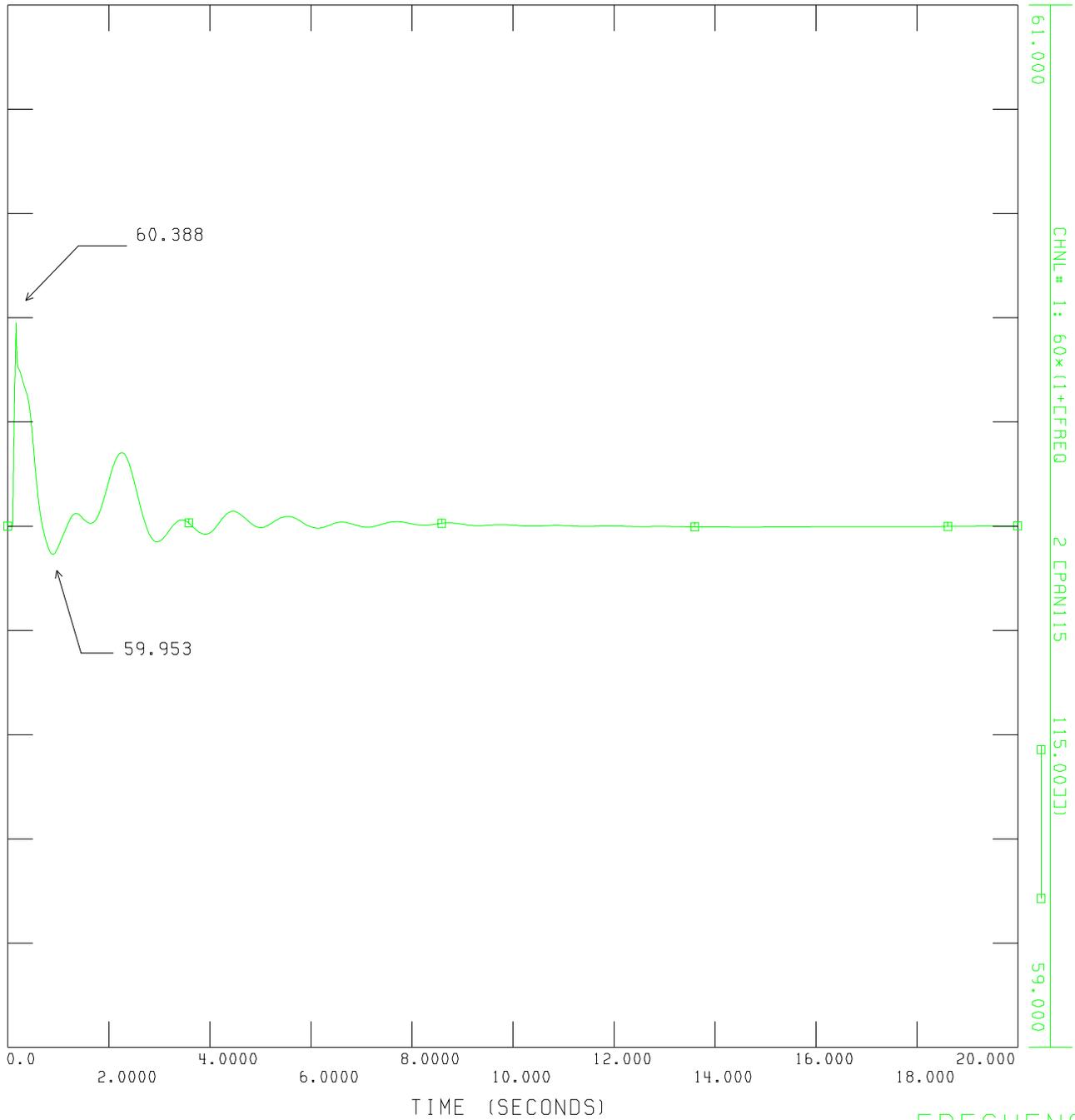
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont6.out



WED, MAY 28 2008 16:21

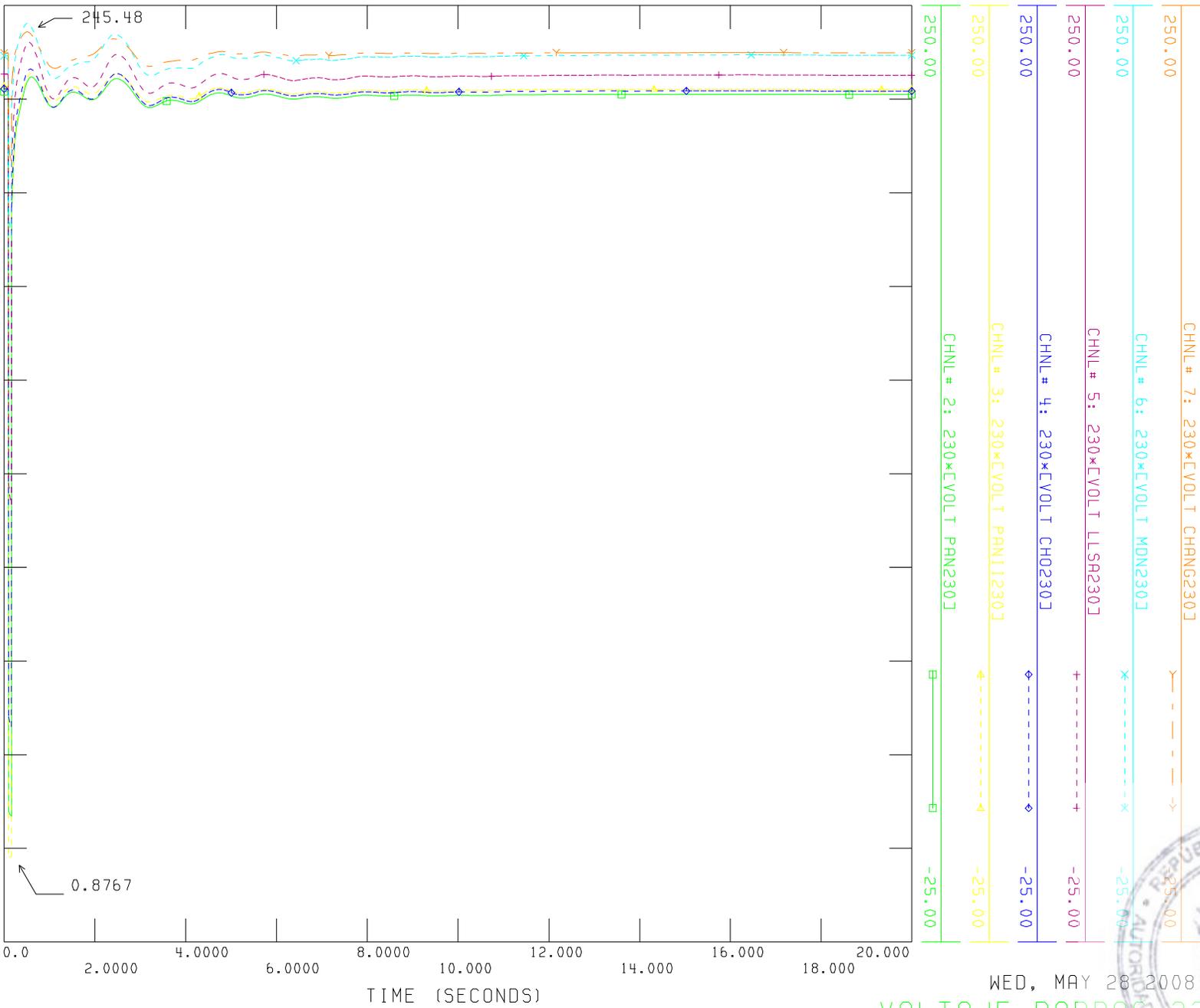
FRECUENCIA PANAMA 115 KV





PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 R 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont6.out

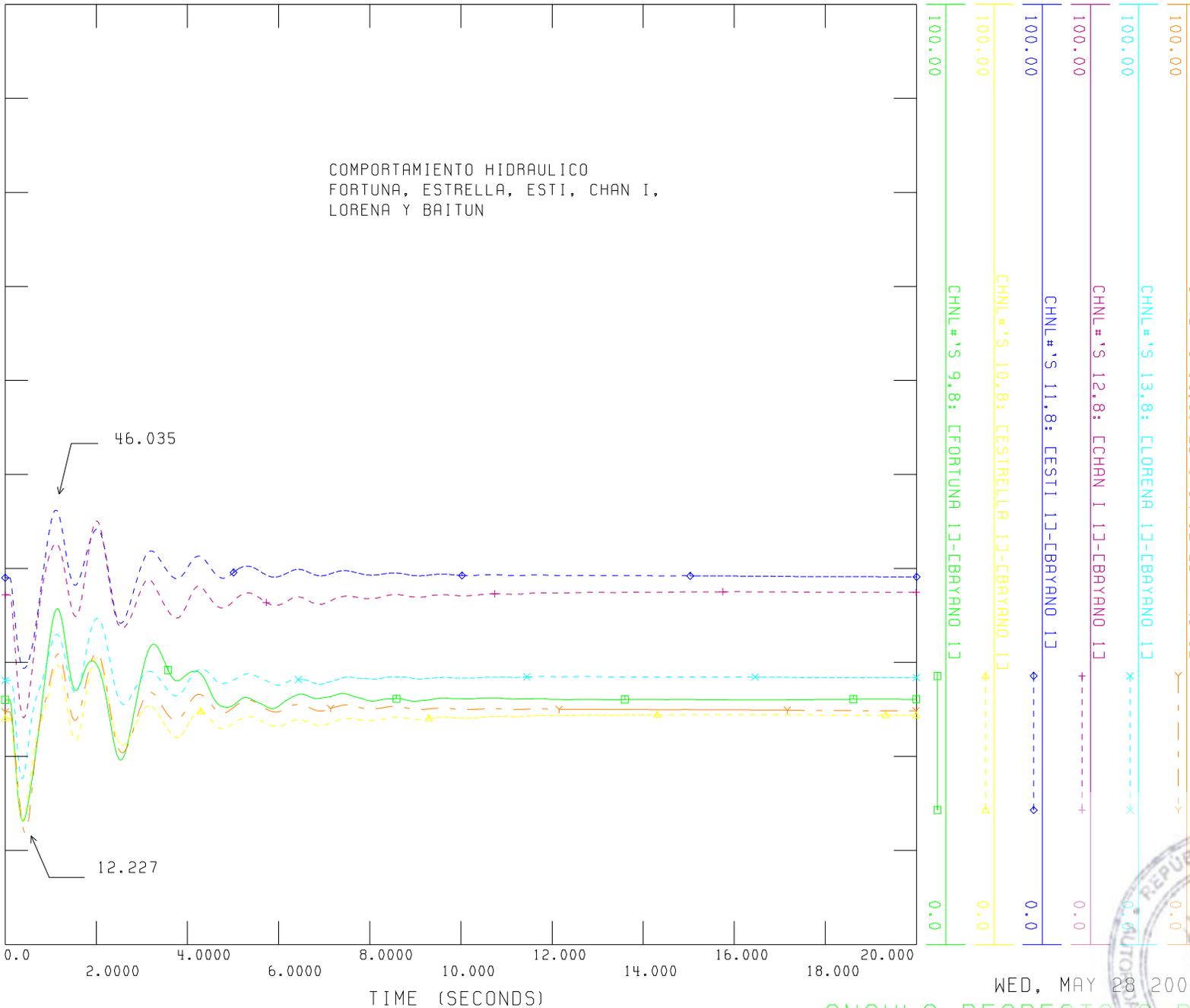


WED, MAY 28 2008 16:23

VOLTAJE BARRAS 230 KV

Handwritten signature

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Contb.out



WED, MAY 28 2008 16:26

ANGULO RESPECTO A BAYANO



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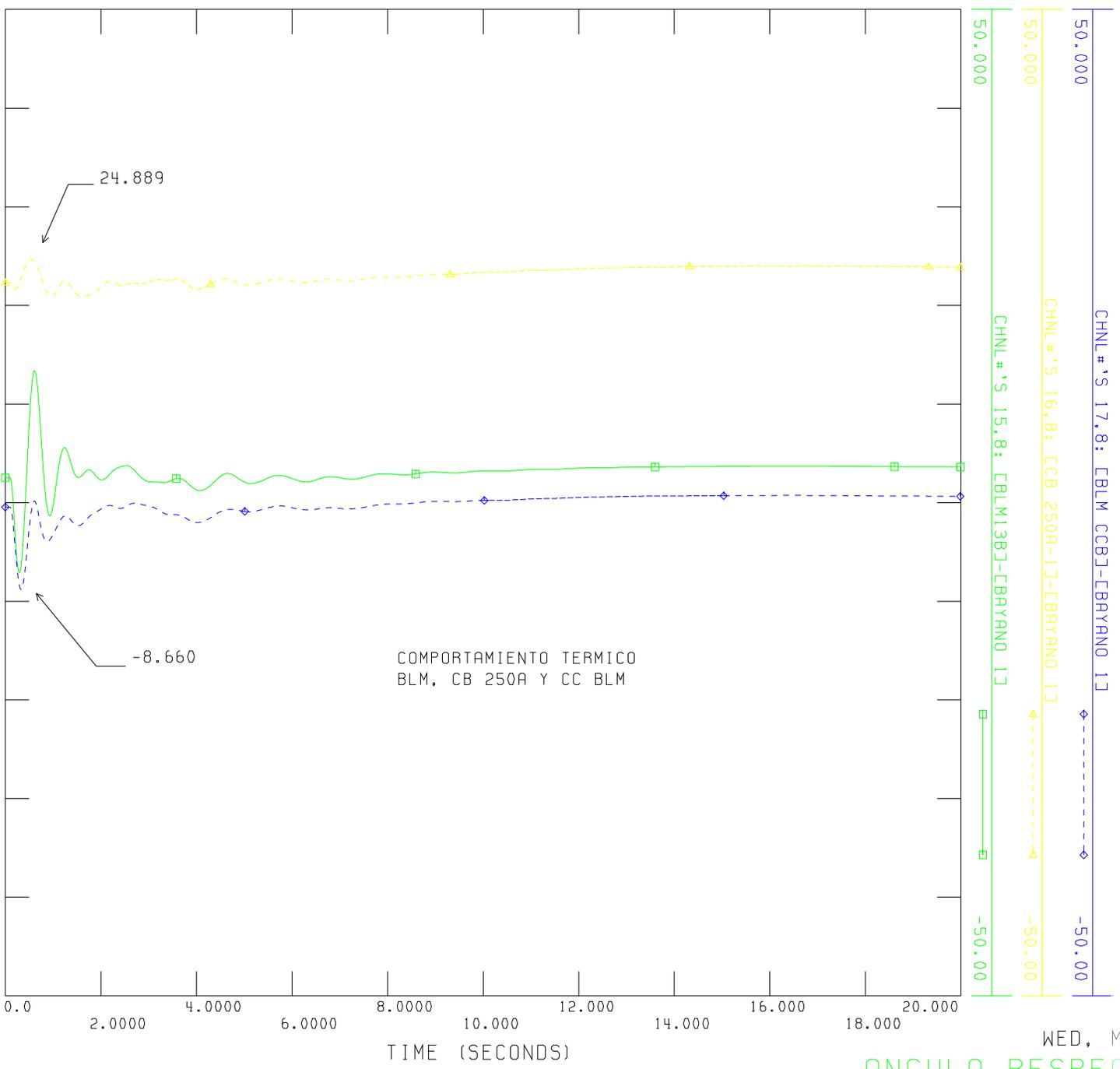
PLAN. EXP-SIN CON C.A. JUNIO 2008 ESC MOD DEM MAX INV
 A 0 2021 REGMHTTLR8

FILE: ... \ESTABILIDAD 2021\2021PE_ModMax-Inv-REGMHTTLR8 Cont6.out



WED, MAY 28 2008 16:29

ANGULO RESPECTO A BAYANO





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de