

ANEXO A

CASOS BASE

A.1

DESPACHOS CASOS BASE

	AVENIDA			ESTIAJE		
UNIDAD	MAX. DEM.	MED. DEM.	MIN. DEM.	MAX. DEM.	MED. DEM.	MIN. DEM.
AGUAYTIA TG1	87	88	6.5	87	87	87
AGUAYTIA TG2	0	0	0	87	87	87
ARES	3.36	3.15	3.15	1.58	1.96	1.96
ARICOTA 2	2	2.4	2.6	7	3.5	2.6
CAHUA G1	22	0	0	12	10	10
CAHUA G2	22	22.7	0	12	10	10
CALANA G4	5	0	0	0	0	0
CALLAHUANCA G1	14.63	15.6	16	12.92	11	10
CALLAHUANCA G2	14.63	15.6	16	12.92	11	10
CALLAHUANCA G3	14.63	15.6	0	12.92	11	10
CALLAHUANCA G4	33.11	34.5	34	29.24	27	25
CANGALLO	1.2	1.2	1.2	1.2	1.2	1.2
CARHUAQUERO G1	30.67	30	30.2	24	20	20
CARHUAQUERO G2	30.67	30	30.2	24	10	0
CARHUAQUERO G3	30.67	30	30.2	0	0	0
CAYLLOMA	1.44	1.35	1.35	0.68	0.84	0.84
CHARCANI I	1.86	1.72	1.86	1.86	1.86	1.86
CHARCANI II	0.69	0.6	0.69	0.69	0.69	0.69
CHARCANI III	4.34	4.34	4.34	4.34	4.34	4.34
CHARCANI IV	15	15	15	15.09	13.26	11.22
CHARCANI V	138.99	142.5	51	105	90	20
CHARCANI VI	9	9	9	8.83	7.75	3
CHLINA SULTZER	0	0	0	10	10	0
CHIMAY G1	75	75	75	45	75	0
CHIMAY G2	75	75	55	45	0	0
C. DEL PATO G1	43.33	43.2	14.25	30	30	25
C. DEL PATO G2	43.33	43.2	14.25	30	30	25
C. DEL PATO G3	43.33	43.2	14.25	30	30	25
C. DEL PATO G4	43.33	43.2	14.25	30	30	0
C. DEL PATO G5	43.33	43.2	0	0	0	0
C. DEL PATO G6	43.33	43.2	14.25	0	0	0
CURUMUY	0	0	11	5	5	5
GALLITO CIEGO G1	14	14	14.15	16	16	0
GALLITO CIEGO G2	14	14	14.15	16	0	0
HUAMPANI G1	15	15.5	15.5	13	13	13
HUAMPANI G2	15	15.5	15.5	13	13	13
HUANCARAMA	2.1	2.1	2.1	2.1	2.1	2.1
HUANCHOR	18.2	18.8	18.8	17	17	17
HUINCO G1	45	56	43	50	50	0
HUINCO G2	50	57	54	50	50	0
HUINCO G3	49	58	46	50	50	0
HUINCO G4	49	57	40	50	0	0
ILO 1 TV1	14	10.5	10.75	0	0	0
ILO 1 TV2	0	0	0	20	10	10
ILO 1 TV3	22	22.8	22.5	22	22	22
ILO 2	133	130.6	55	135	135	135
MALPASO	43	40	6	38	20	4
MATUCANA G1	63	64	56.5	48	41	32
MATUCANA G2	63	64	56.5	48	41	32
MACHUPICCHU G1	29	28.7	25.7	28.67	28.67	28.67
MACHUPICCHU G2	29	28.7	25.7	28.67	28.67	28.67
MACHUPICCHU G3	0	28.7	25.7	28.67	28.67	28.67
MALACAS TG2	0	0	0	14	14	0
MALACAS TG4	92	42	0	90	90	40
MOLLENDI	0	0	0	30	30	0
MOYOPAMPA G1	20.33	19	18	21	21	21

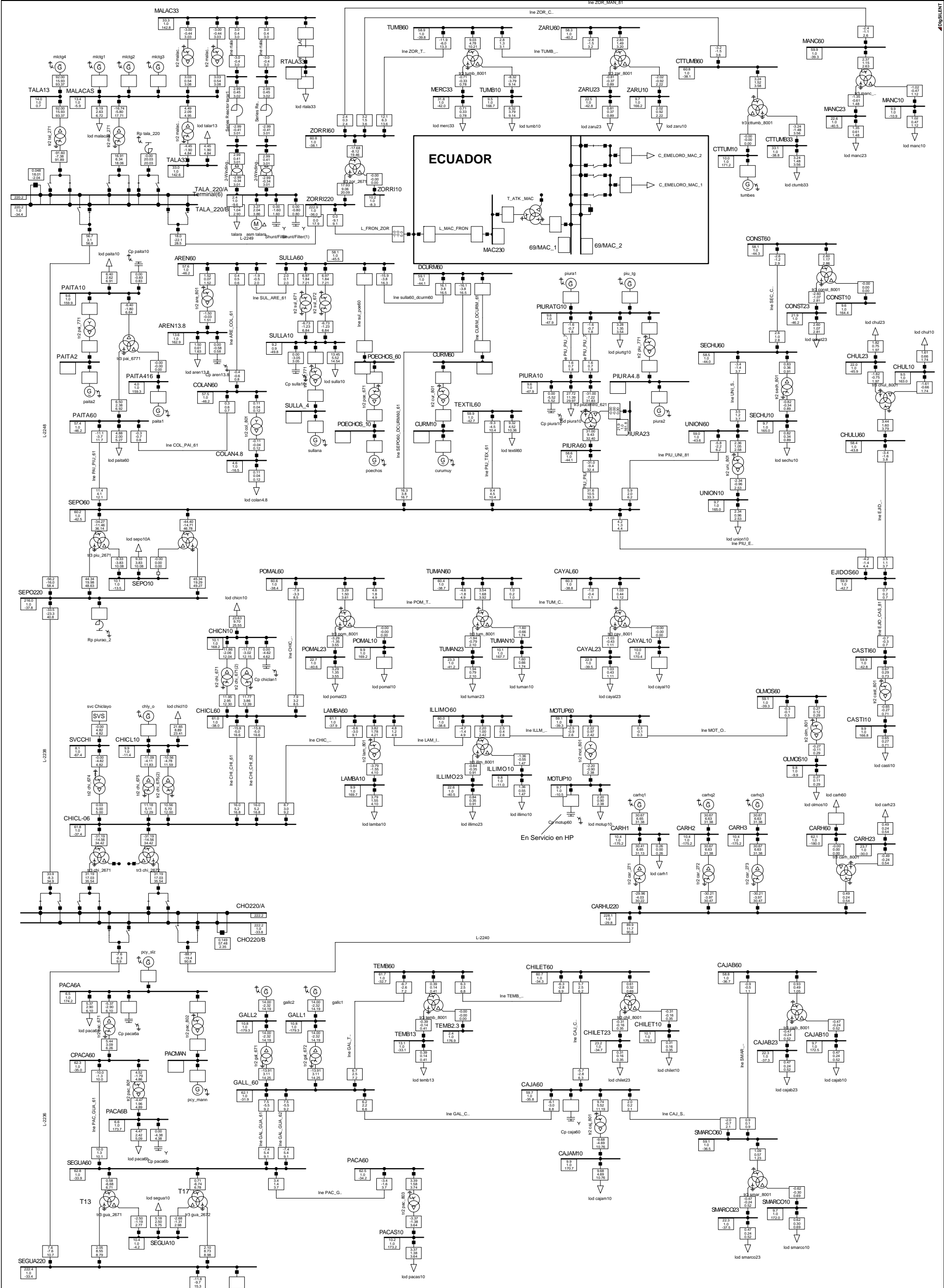
MOYOPAMPA G2	20.33	19	19	21	21	21
MOYOPAMPA G3	20.33	23	23	21	21	21
OROYA	9.87	9.45	9	7.8	5.2	5.2
PACHACHACA	9.12	9	5	7.2	4.8	4.8
PARIAC	3.5	3	2	3.58	1.9	1.9
PIURA I	0	0	0	12.99	12.99	0
PIURA II	0	0	0	0	0	0
POECHOS	0	0	14	14	12	6
RESTITUCION G1	71.5	70.67	62	71	69	60
RESTITUCION G2	71.5	70.67	62	71	69	60
RESTITUCION G3	71.5	70.67	62	71	69	60
MANTARO G1	106	105.5	86	103	100	80
MANTARO G2	106	105.5	86	103	100	80
MANTARO G3	106	105.5	86	103	100	80
MANTARO G4	106	105.5	86	103	100	80
MANTARO G5	84	84	79	77	75	75
MANTARO G6	84	84	79	77	75	75
MANTARO G7	84	84	79	77	75	75
SAN GABAN G1	54.5	54.5	51.8	50	35	20
SAN GABAN G2	54.5	54.5	51.8	50	35	20
SHOUGANG TV1	10	10	0	0	0	0
SHOUGANG TV3	0	0	0	20	20	11
VENTANILLA TV	0	0	0	90	90	90
TUMBES	0	0	0	16	16	0
SANTA ROSA UTI 5	0	0	0	50	50	0
SANTA ROSA UTI 6	38	0	0	25	25	0
VENTANILLA TG3	150	133	33	151	151	151
VENTANILLA TG4	0	0	0	151	151	151
SANTA ROSA WTG7	104	29.5	0	117	117	70
YANANGO	42	42	42	10	10	10
YARINACOCHA	24	0	0	24	24	0
YAUPI	100	100	80	80	60	50
YUNCAN G1	43.67	43.67	23	28	21.6	18
YUNCAN G2	43.67	43.67	40	28	21.6	18
YUNCAN G3	43.67	43.67	43	28	21.6	18
TOTAL	3334.16	3163.33	2234.69	3375.95	3100.2	2235.72

A.2

**PLANOS DE RESULTADOS DE FLUJO DE
LOS CASOS BASE**

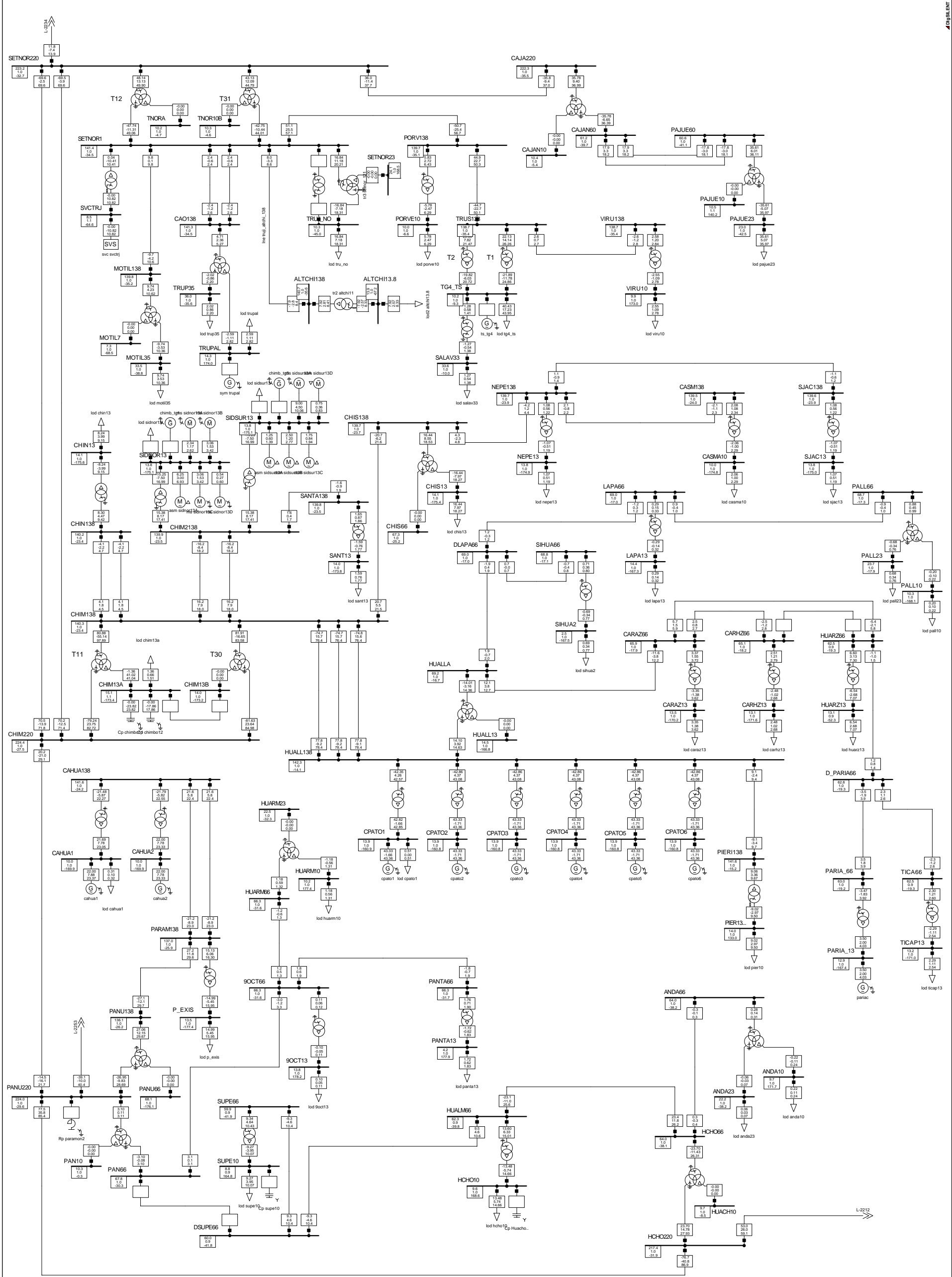
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MAXIMA DEMANDA EN AVENIDA



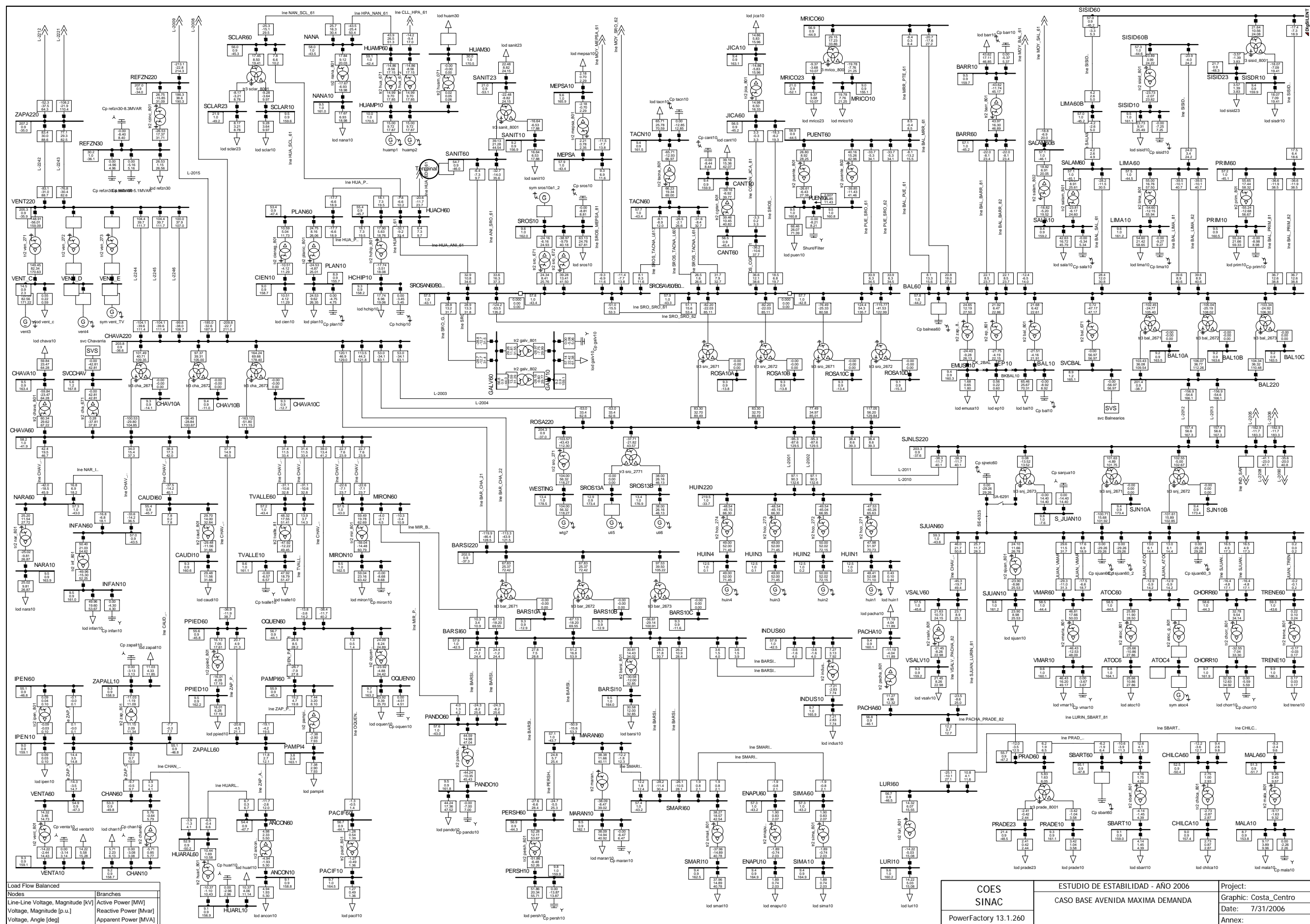
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Line-Line Voltage, Magnitude [kV]				Date: 7/31/2006	
Voltage, Magnitude [p.u.]				Annex:	
Voltage, Angle [deg]					
Branches					
Active Power [MW]					
Reactive Power [Mvar]					
Apparent Power [MVA]					

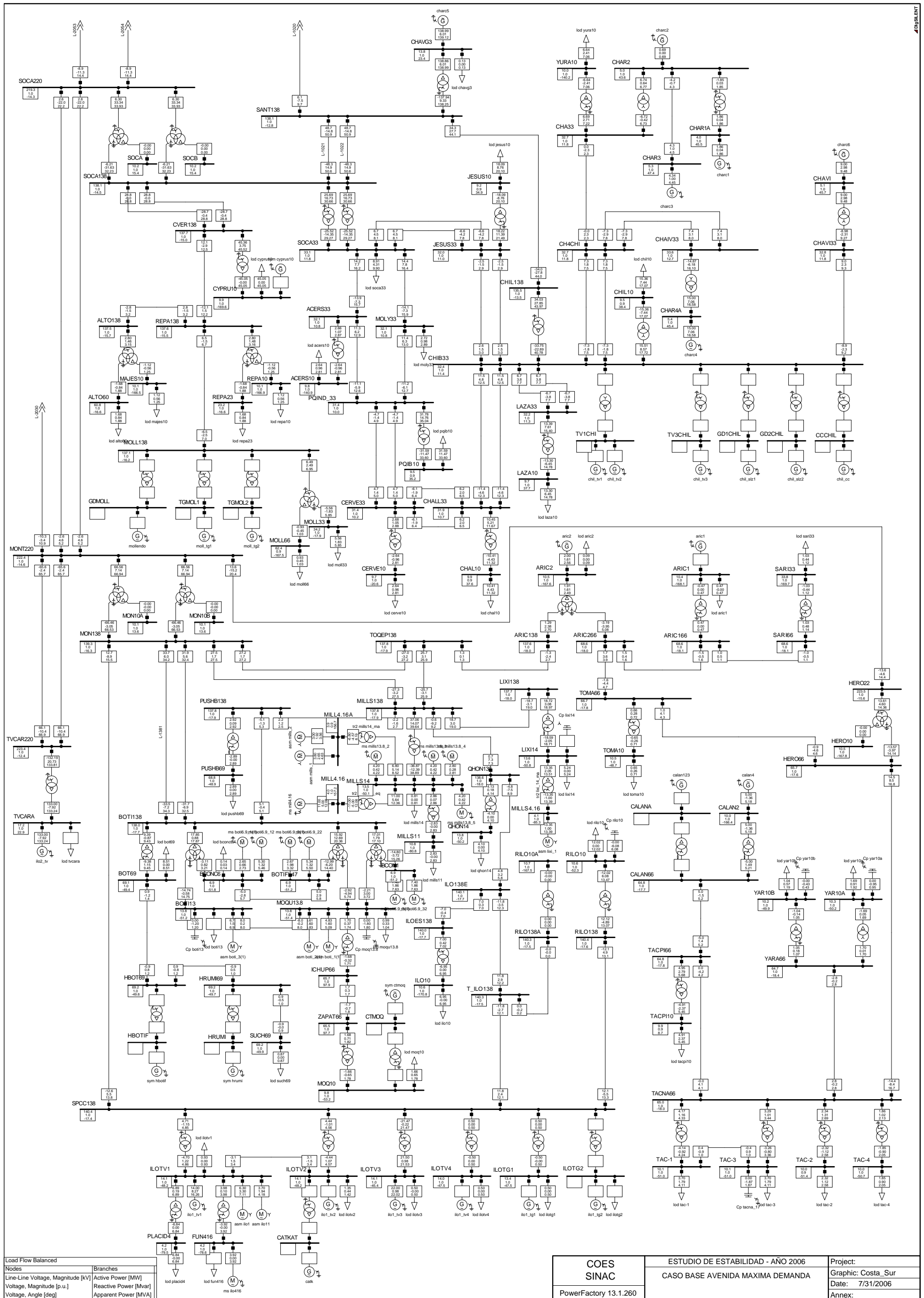
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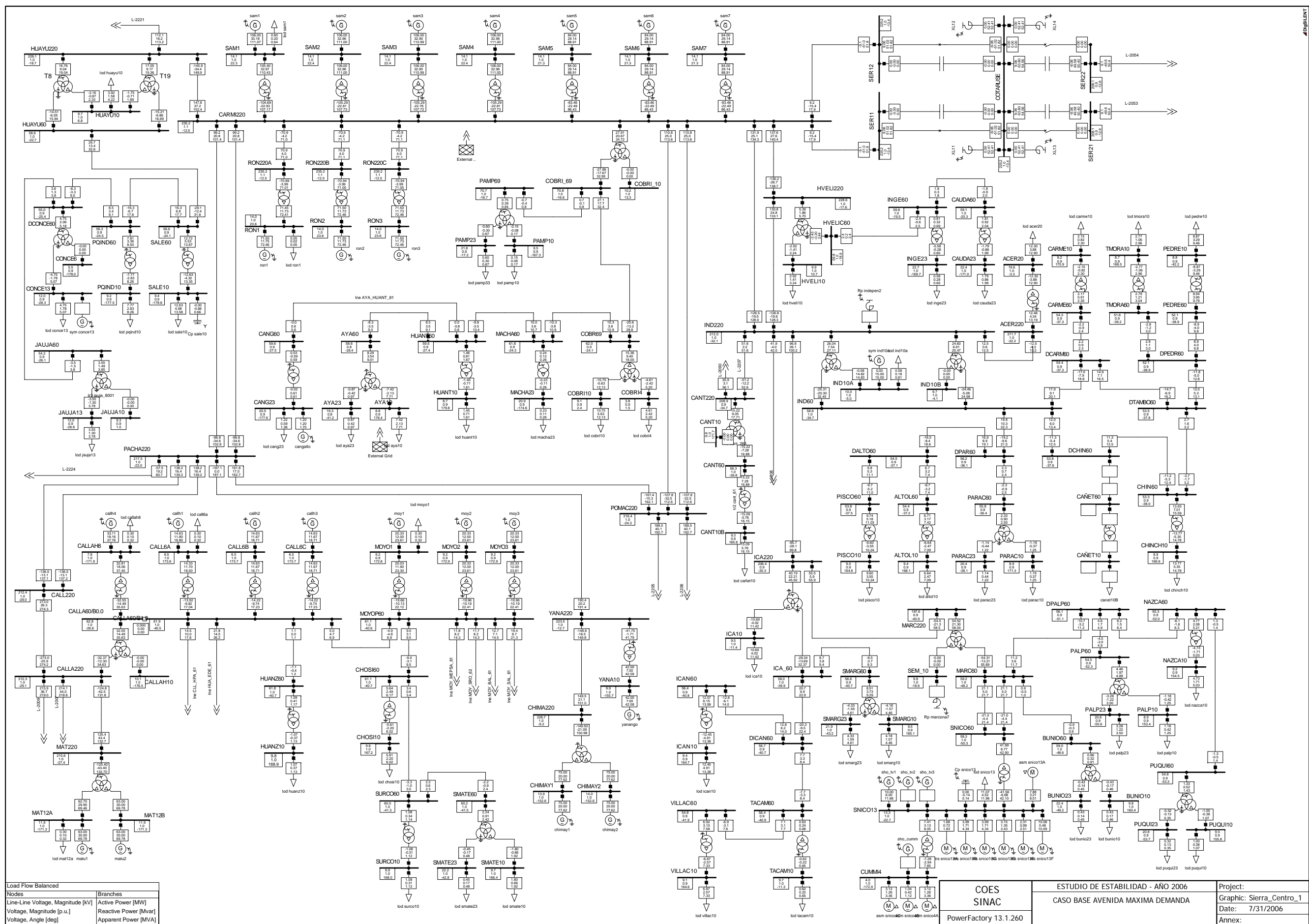


Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

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		Date: 7/31/2006
		Annex:



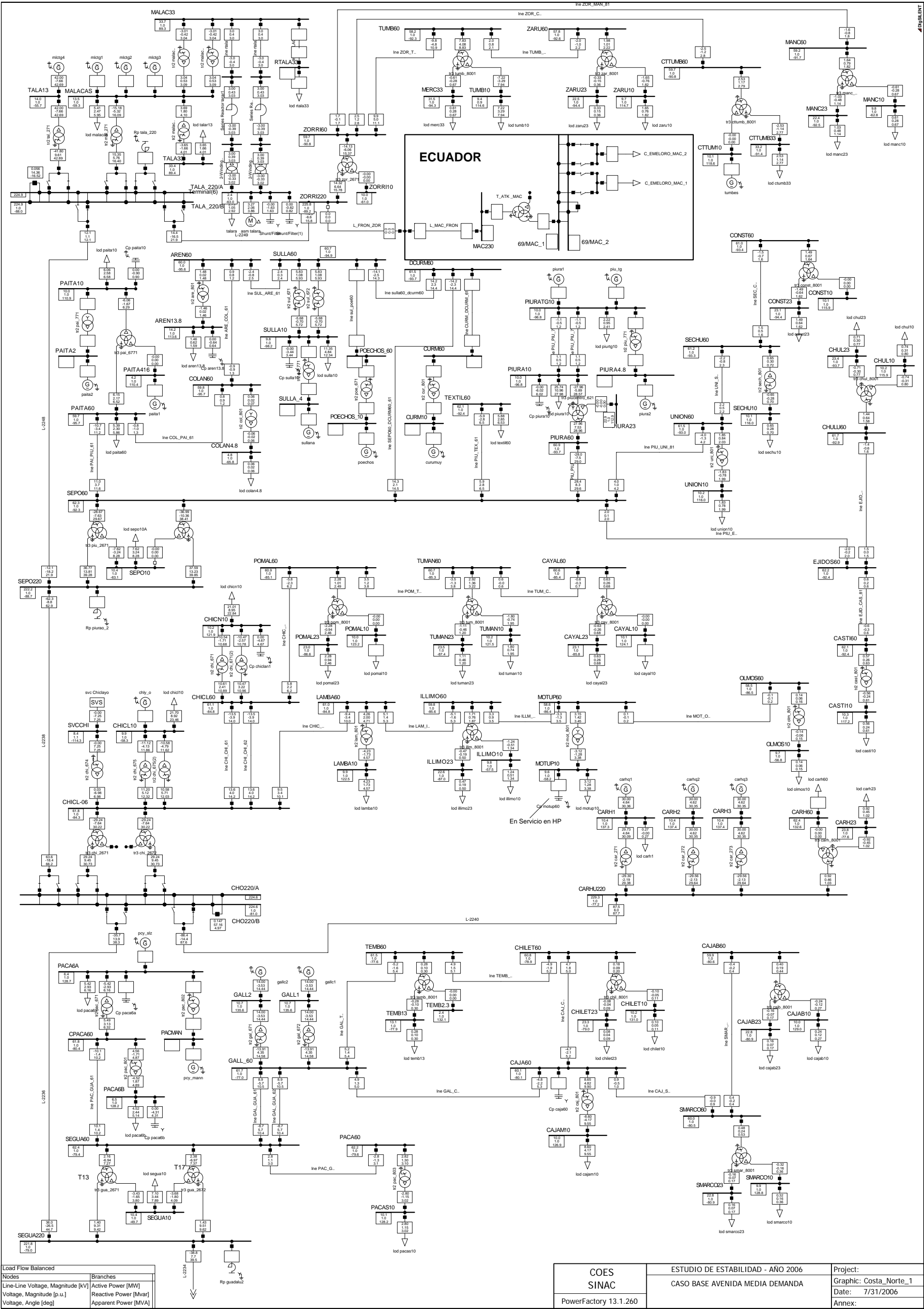




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		Annex:

A.2.2

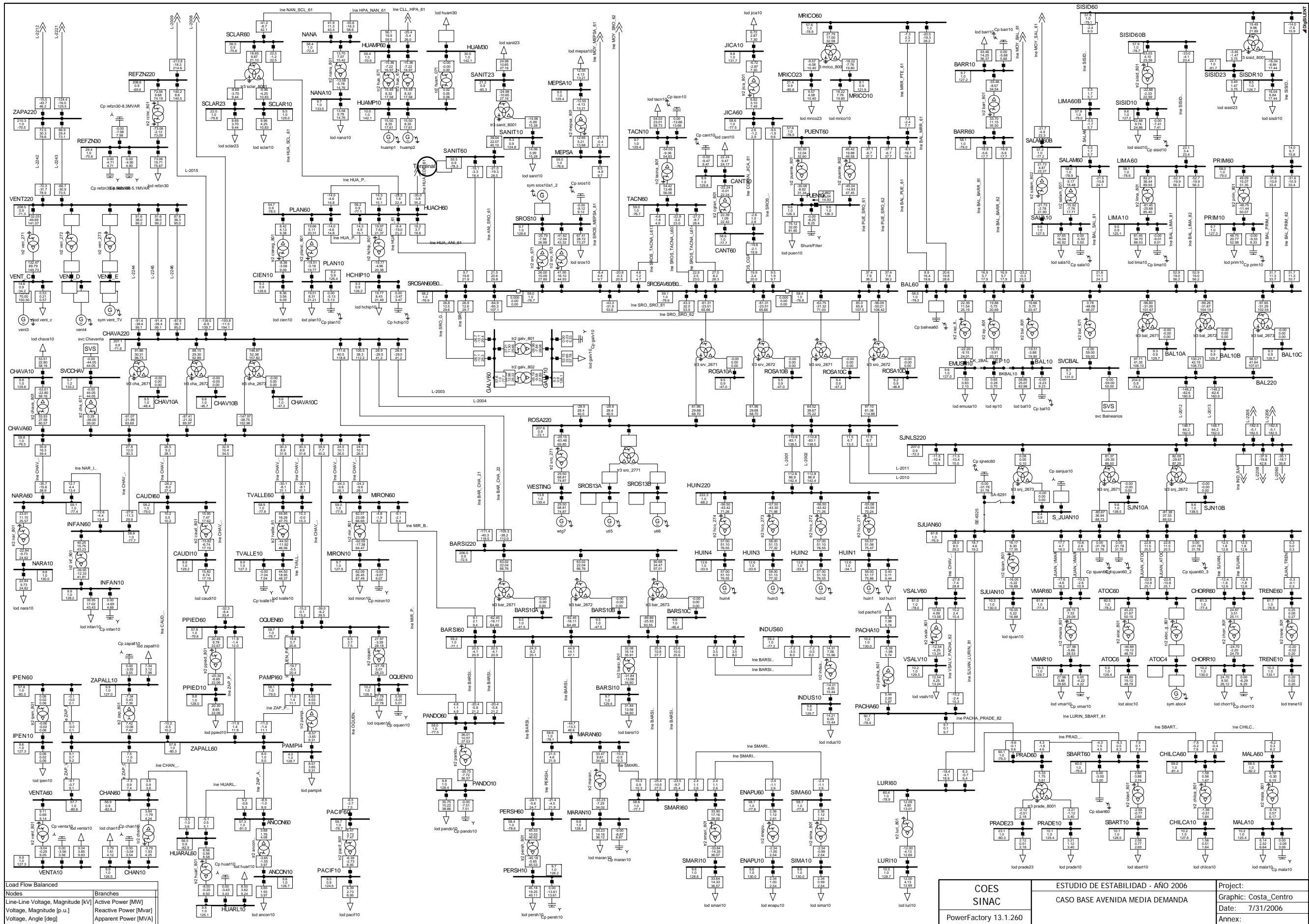
MEDIA DEMANDA EN AVENIDA

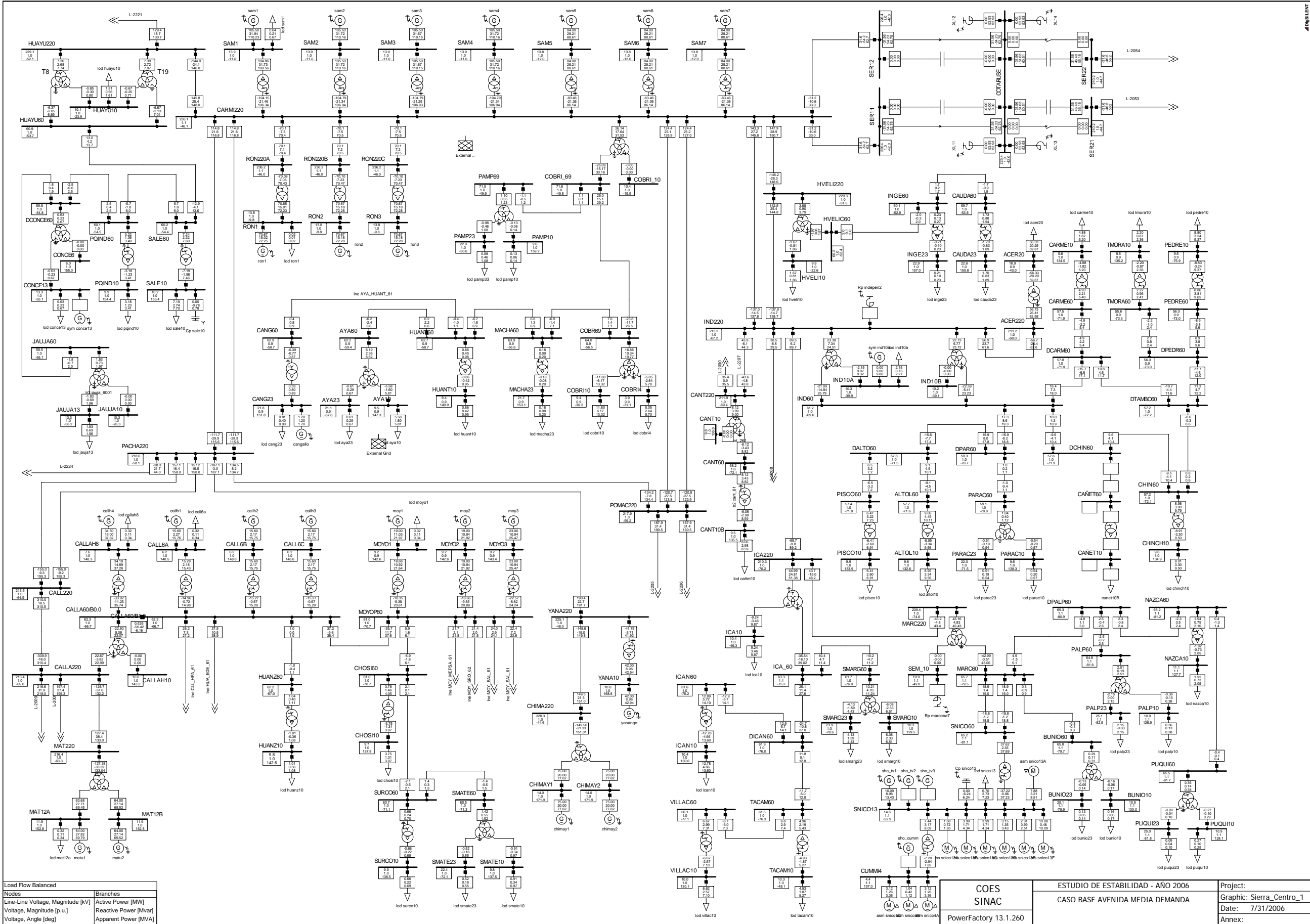


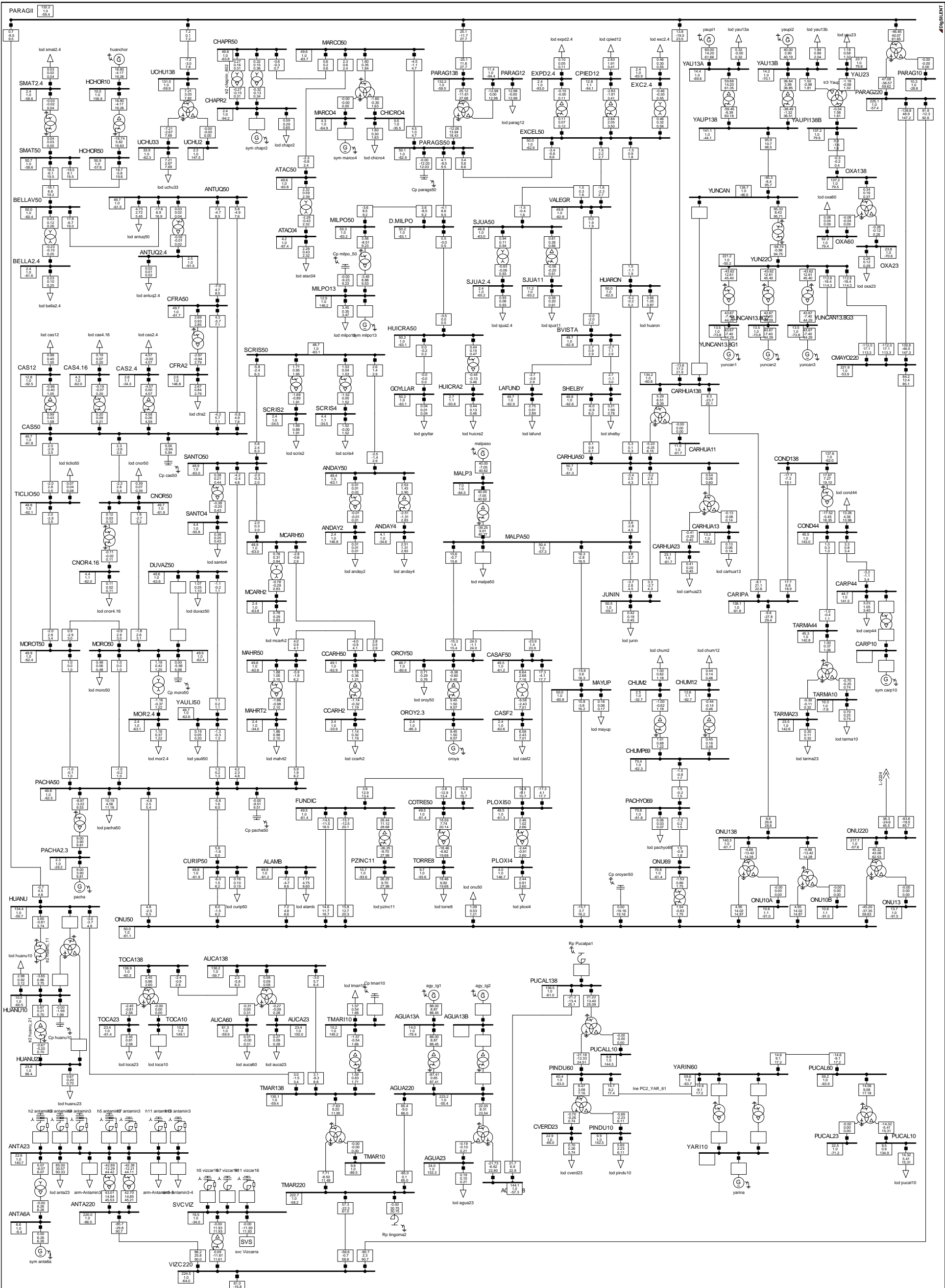
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Line-Line Voltage, Magnitude [kV]	Active Power [MW]	Reactive Power [Mvar]
Voltage, Magnitude [p.u.]	Apparent Power [MVA]	
Voltage, Angle [deg]		

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
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		Date: 7/31/2006
		Annex:

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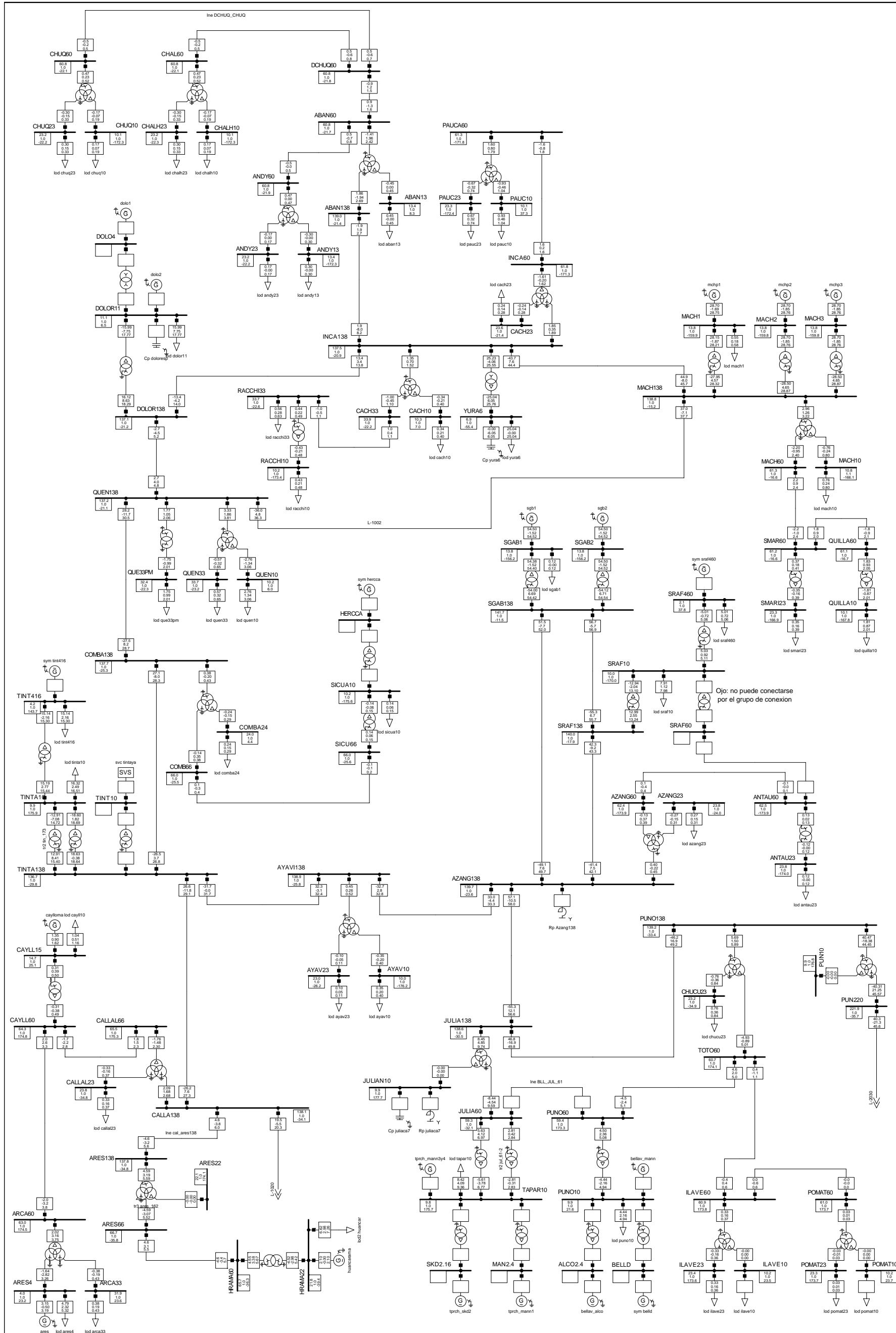






Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006 CASO BASE AVENIDA MEDIA DEMANDA	Project:
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PowerFactory 13.1.260		Date: 7/31/2006
		Annex:

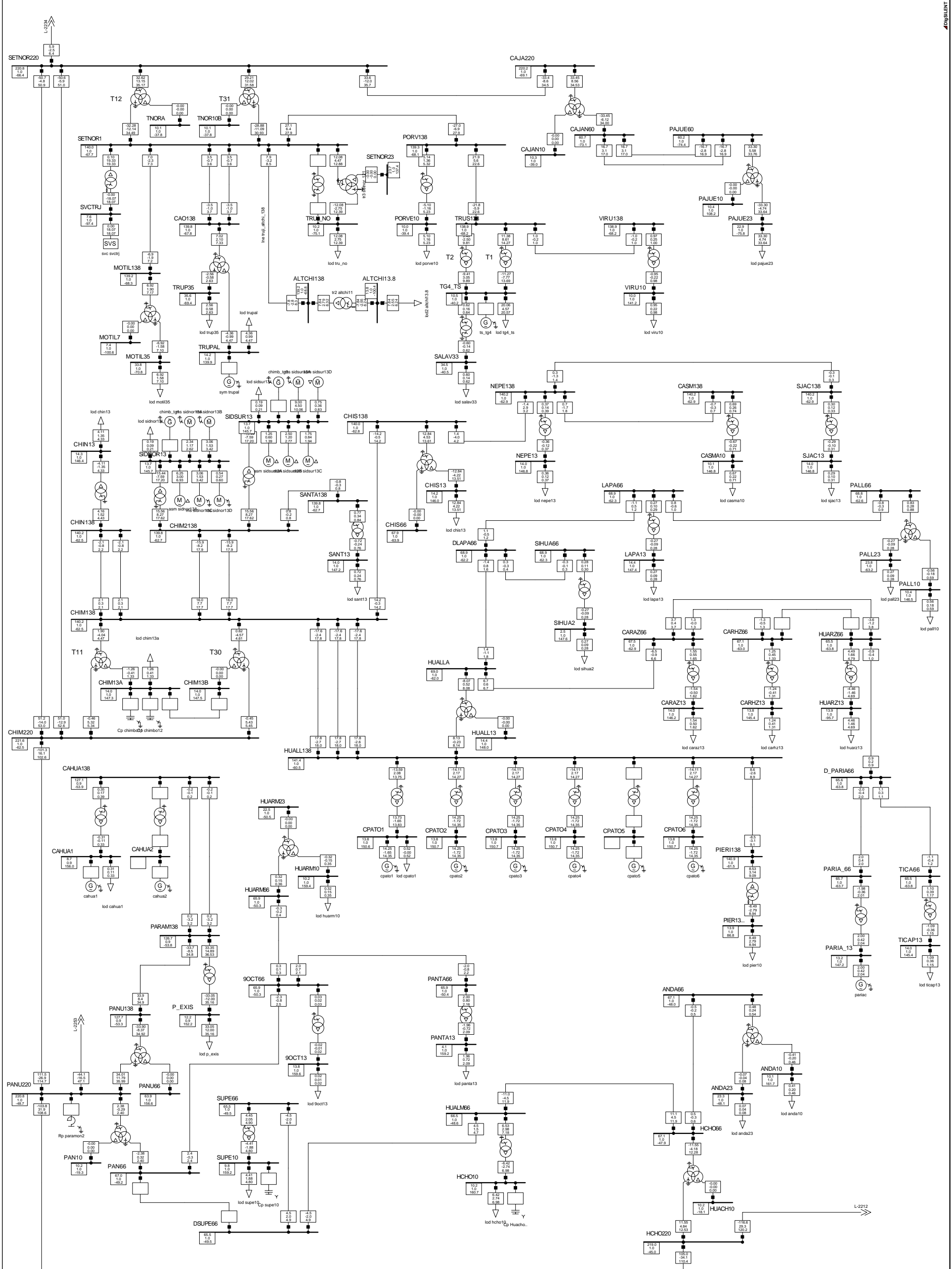


Load Flow Balanced		
Nodes	Branches	
Line-Line Voltage, Magnitude [kV]	Active Power [MW]	
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]	
Voltage, Angle [deg]	Apparent Power [MVA]	

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
	CASO BASE AVENIDA MEDIA DEMANDA	Graphic: Sierra_Sur
PowerFactory 13.1.260		Date: 7/31/2006
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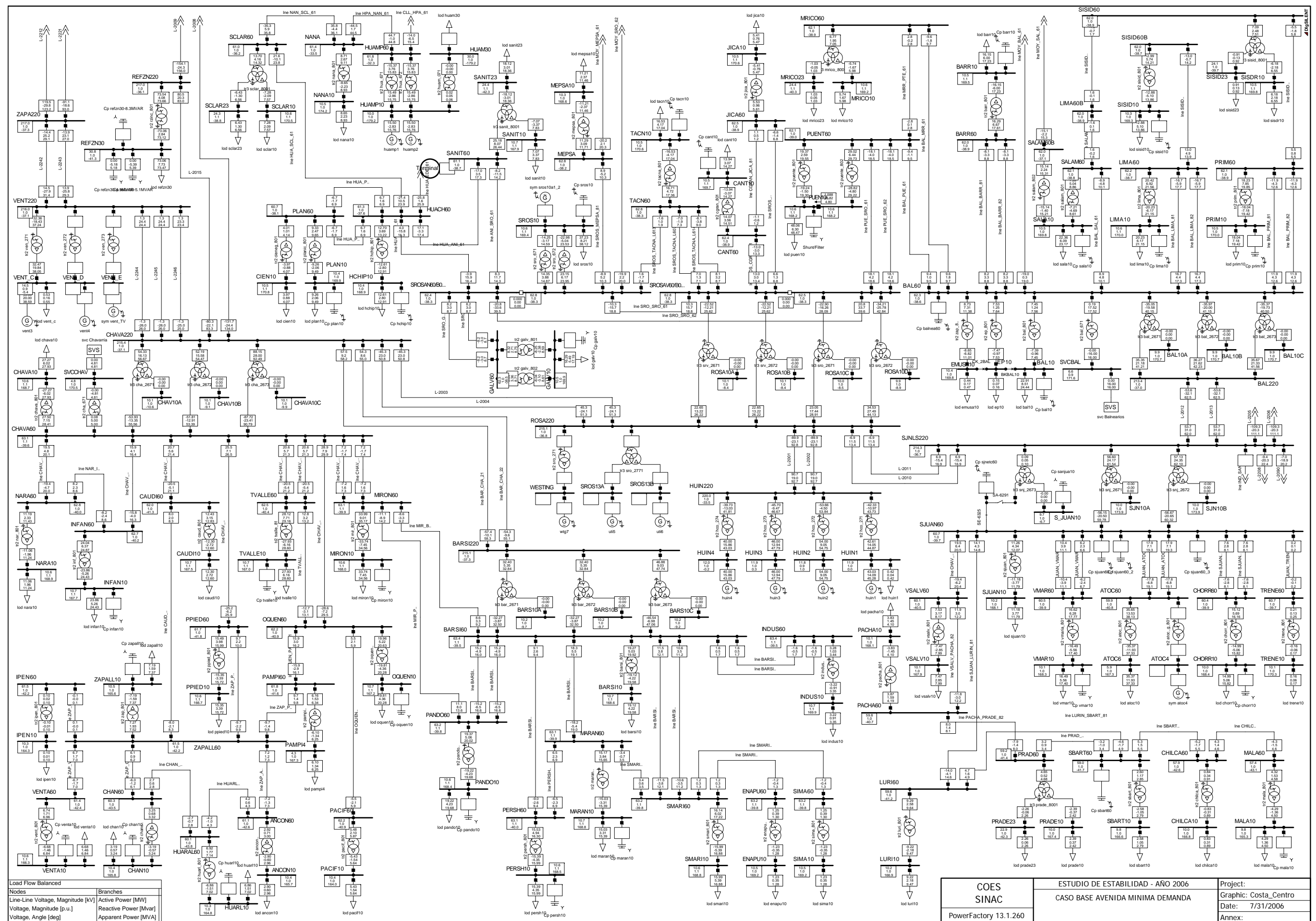
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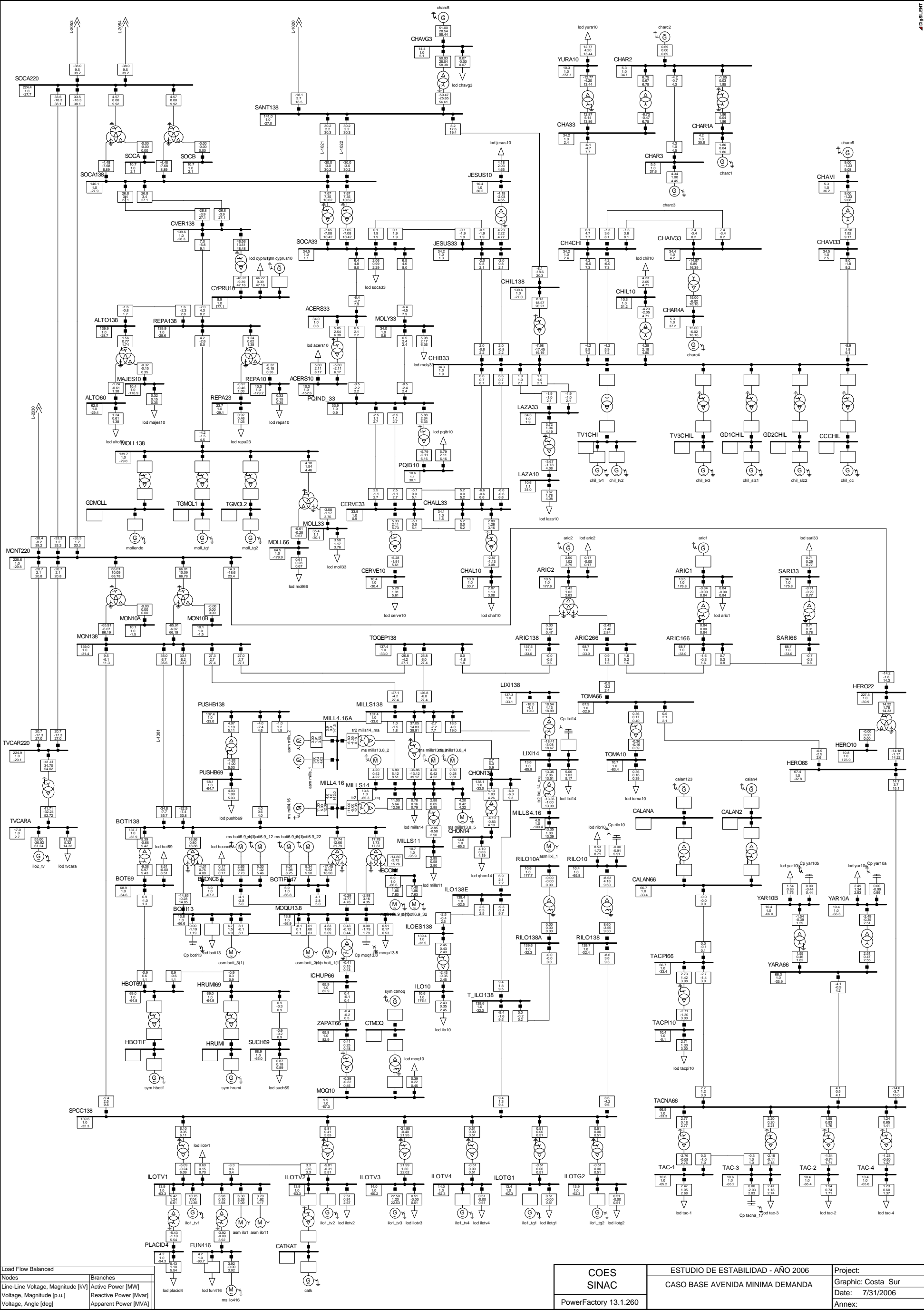
MINIMA DEMANDA EN AVENIDA



Load Flow Balanced	Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]	
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]	
Voltage, Angle [deg]	Apparent Power [MVA]	

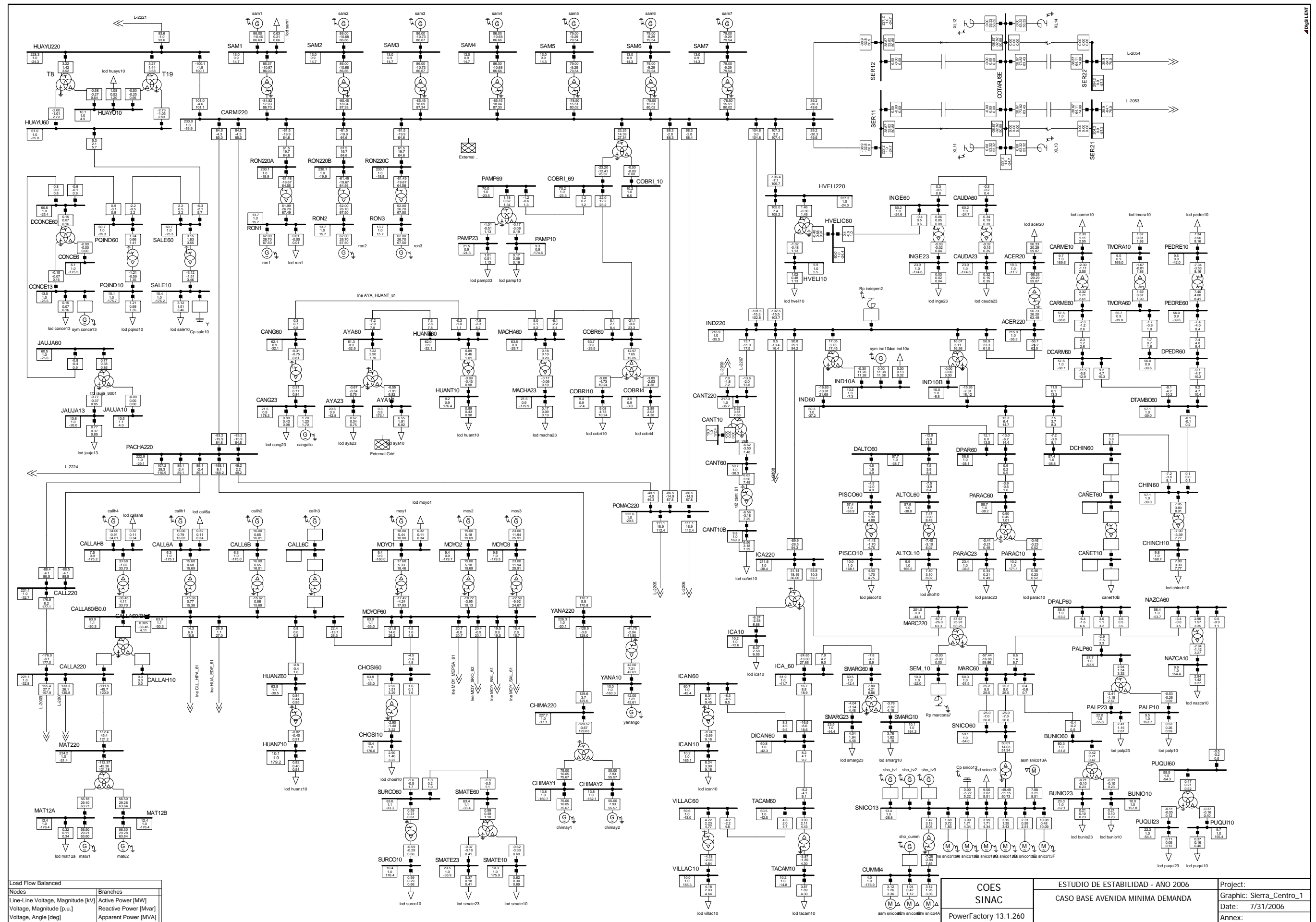
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		Date: 7/31/2006
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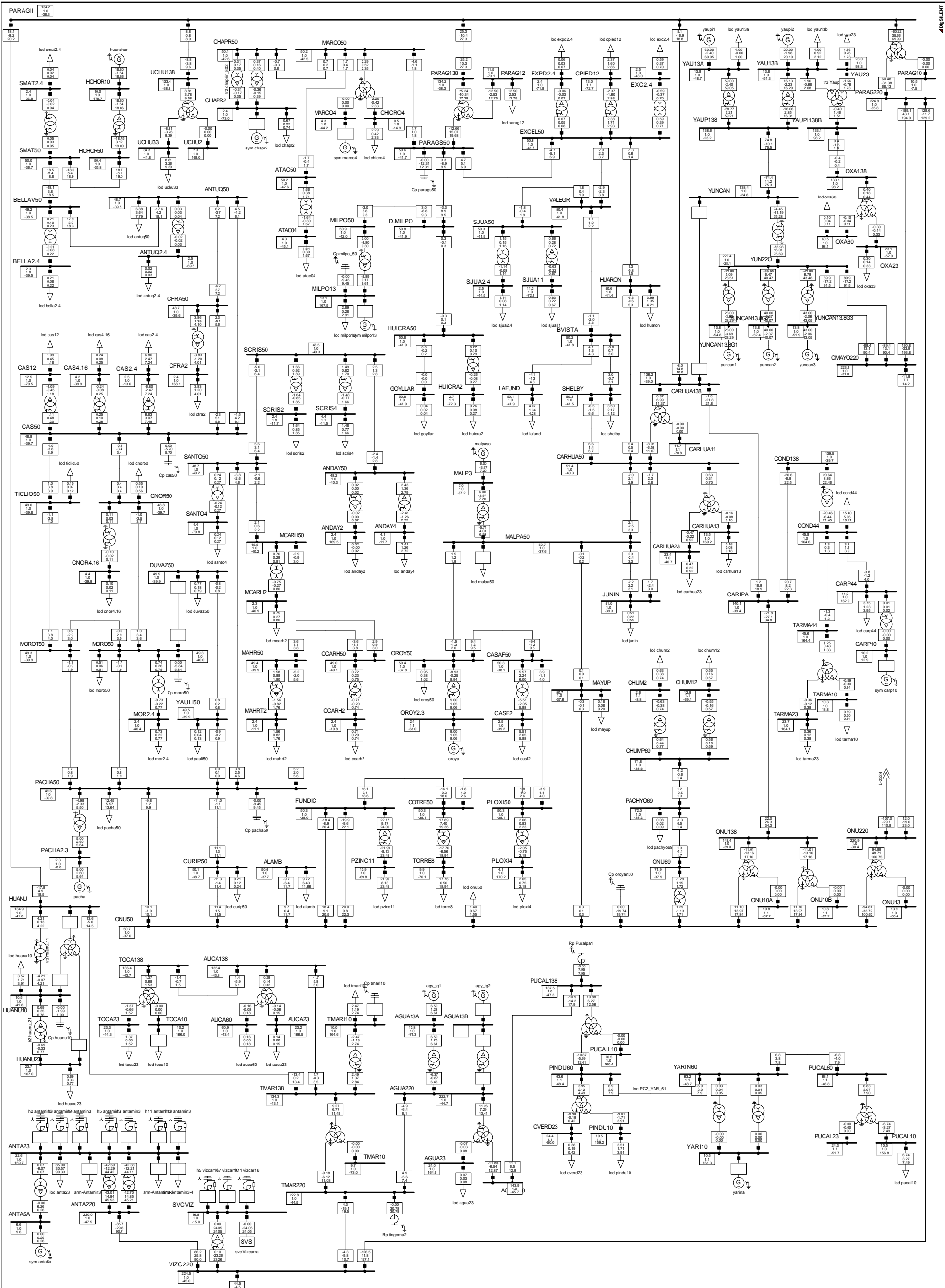




Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

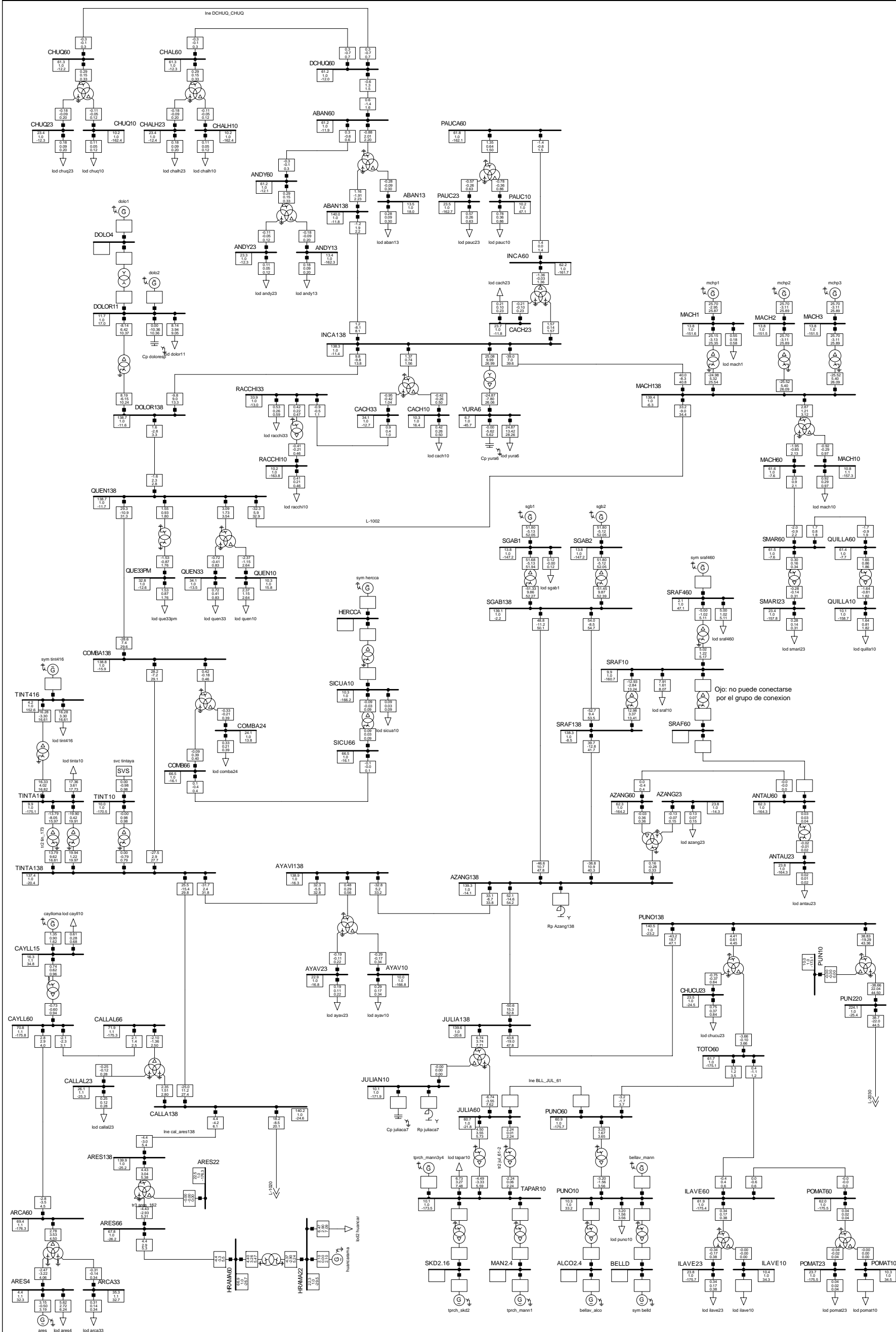
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PowerFactory 13.1.260	CASO BASE AVENIDA MINIMA DEMANDA	Graphic: Costa_Sur
		Date: 7/31/2006
		Annex:





Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

COES SINAC PowerFactory 13.1.260	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
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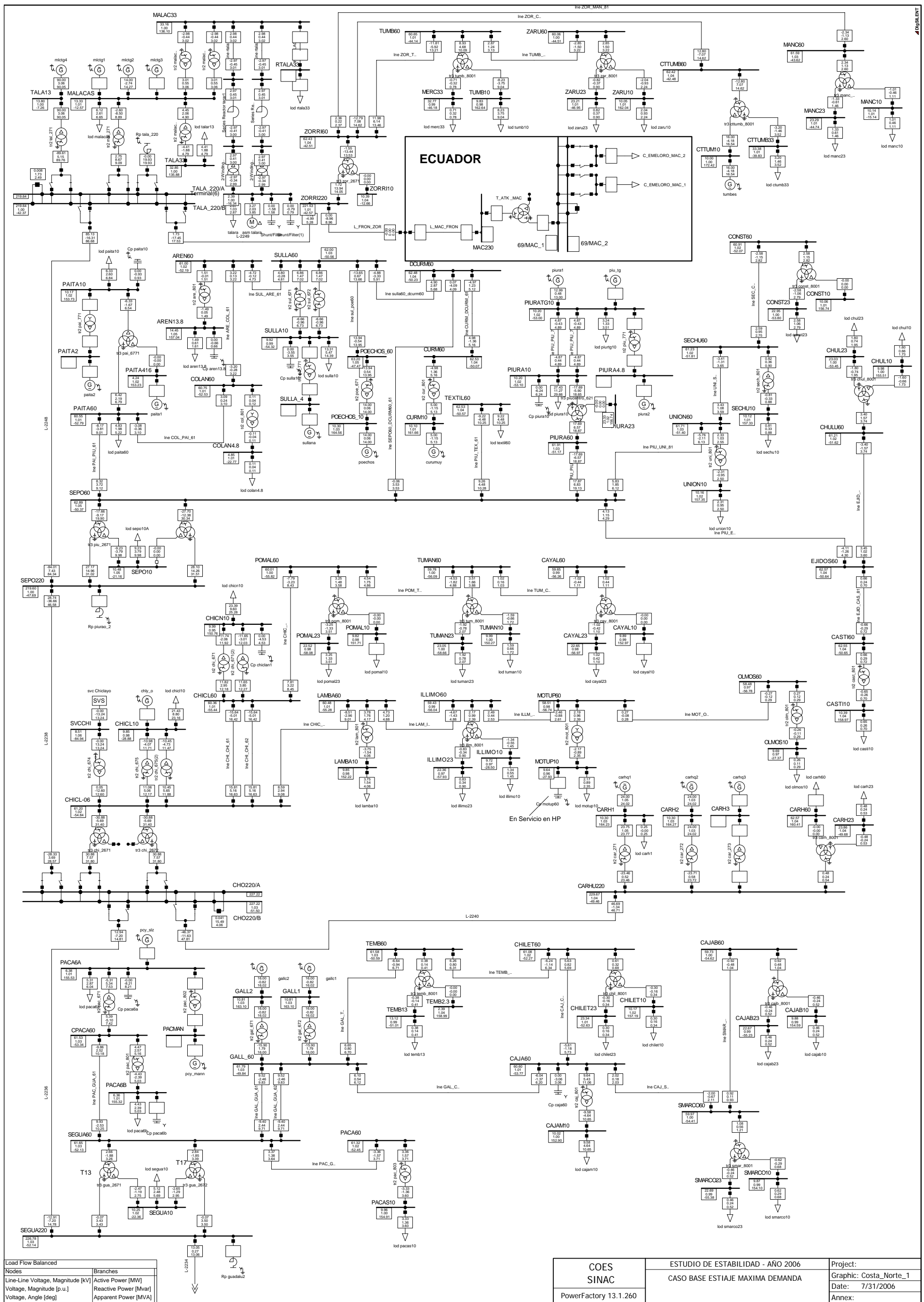


Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
	CASO BASE AVENIDA MINIMA DEMANDA	Graphic: Sierra_Sur
PowerFactory 13.1.260		Date: 7/31/2006
		Annex:

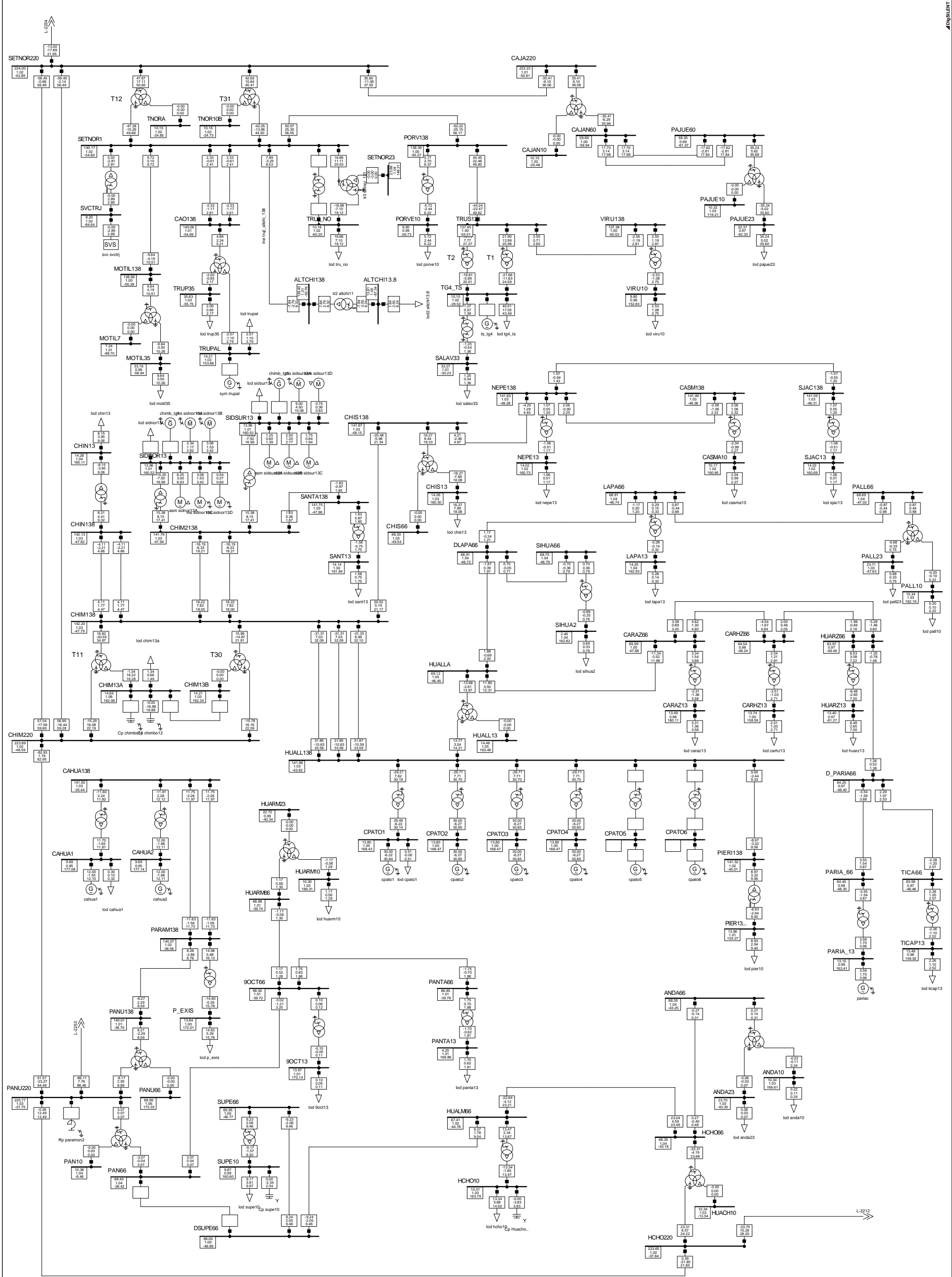
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MAXIMA DEMANDA EN ESTIAJE



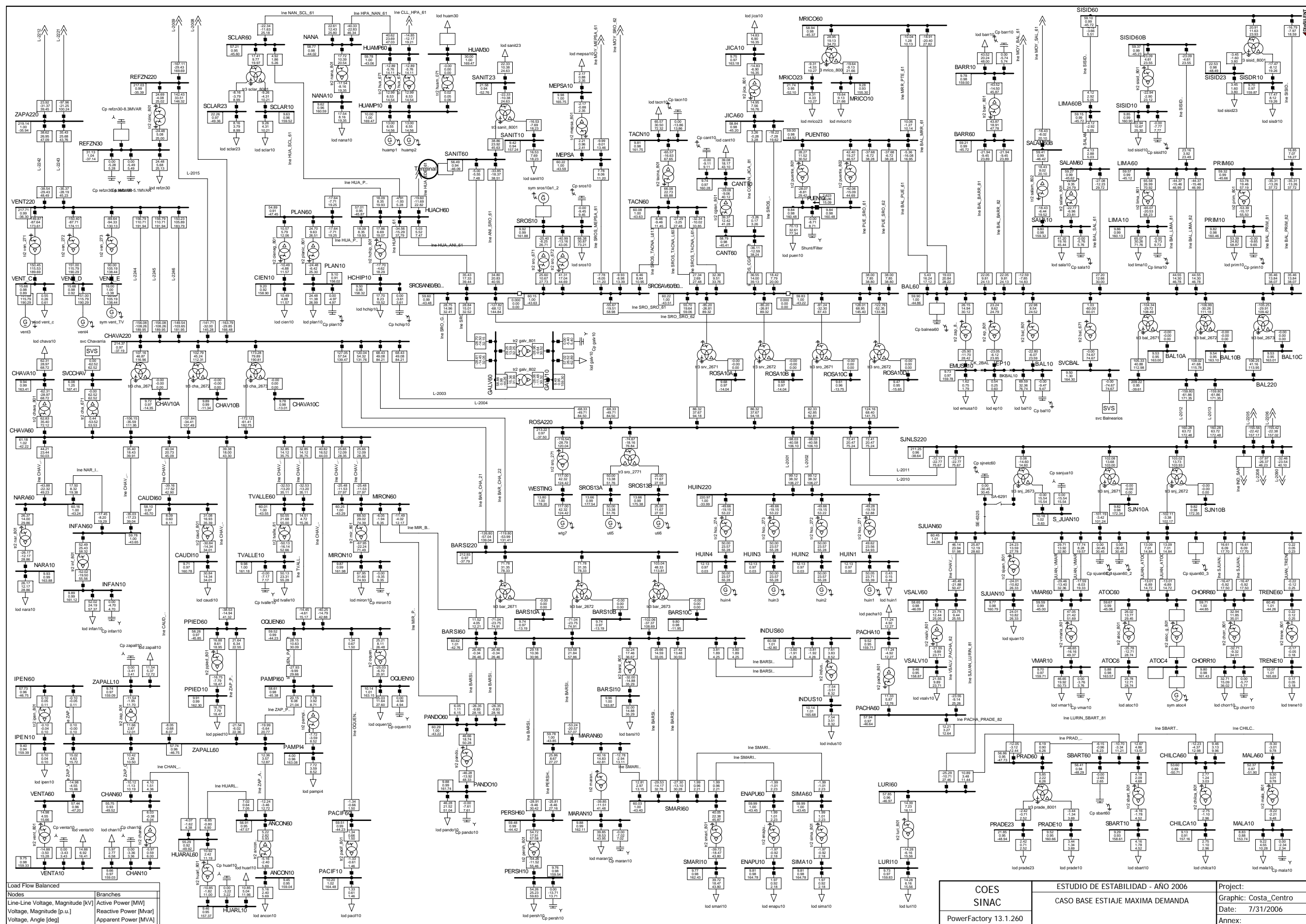
Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

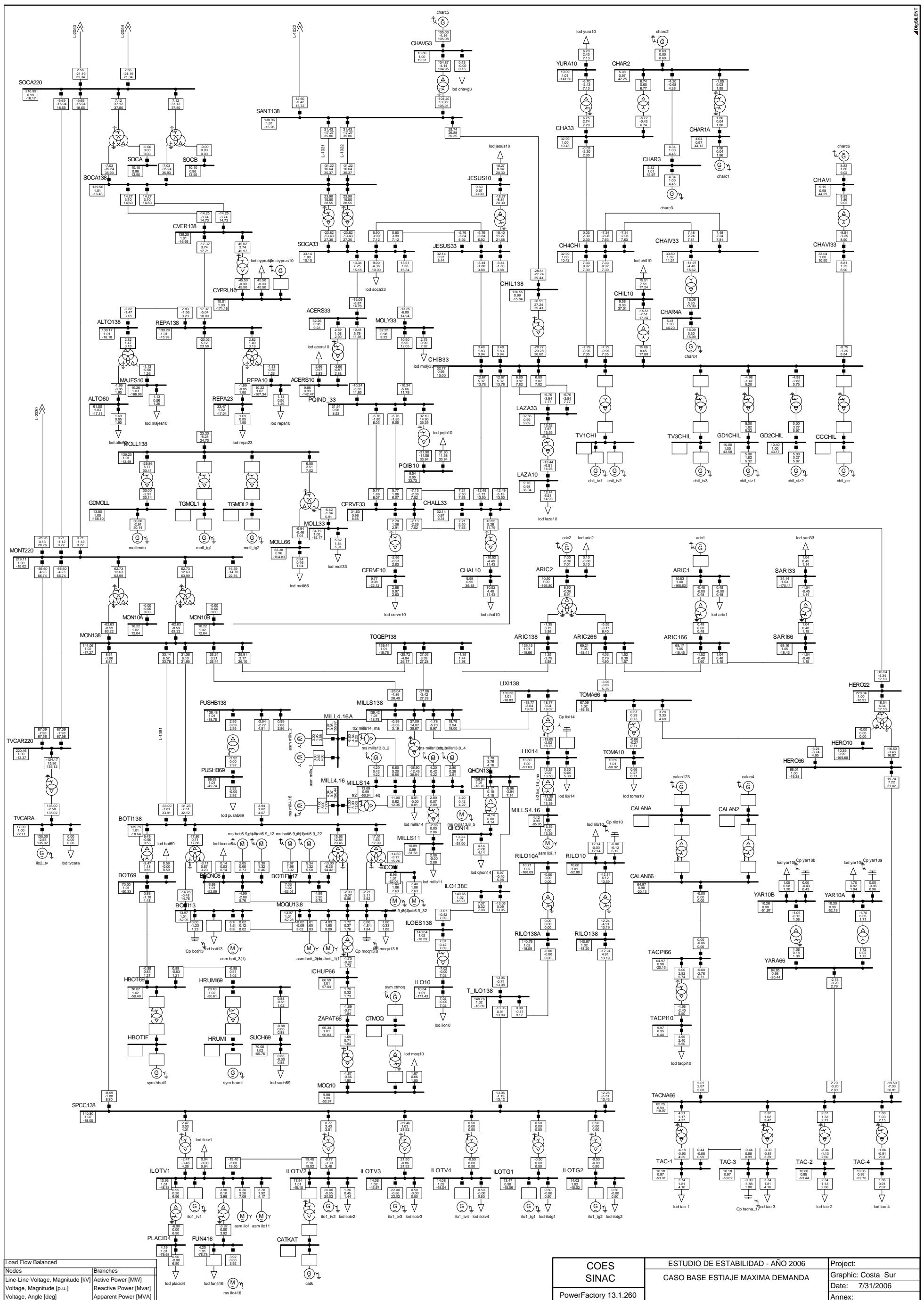
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PowerFactory 13.1.260		Date: 7/31/2006
		Annex:

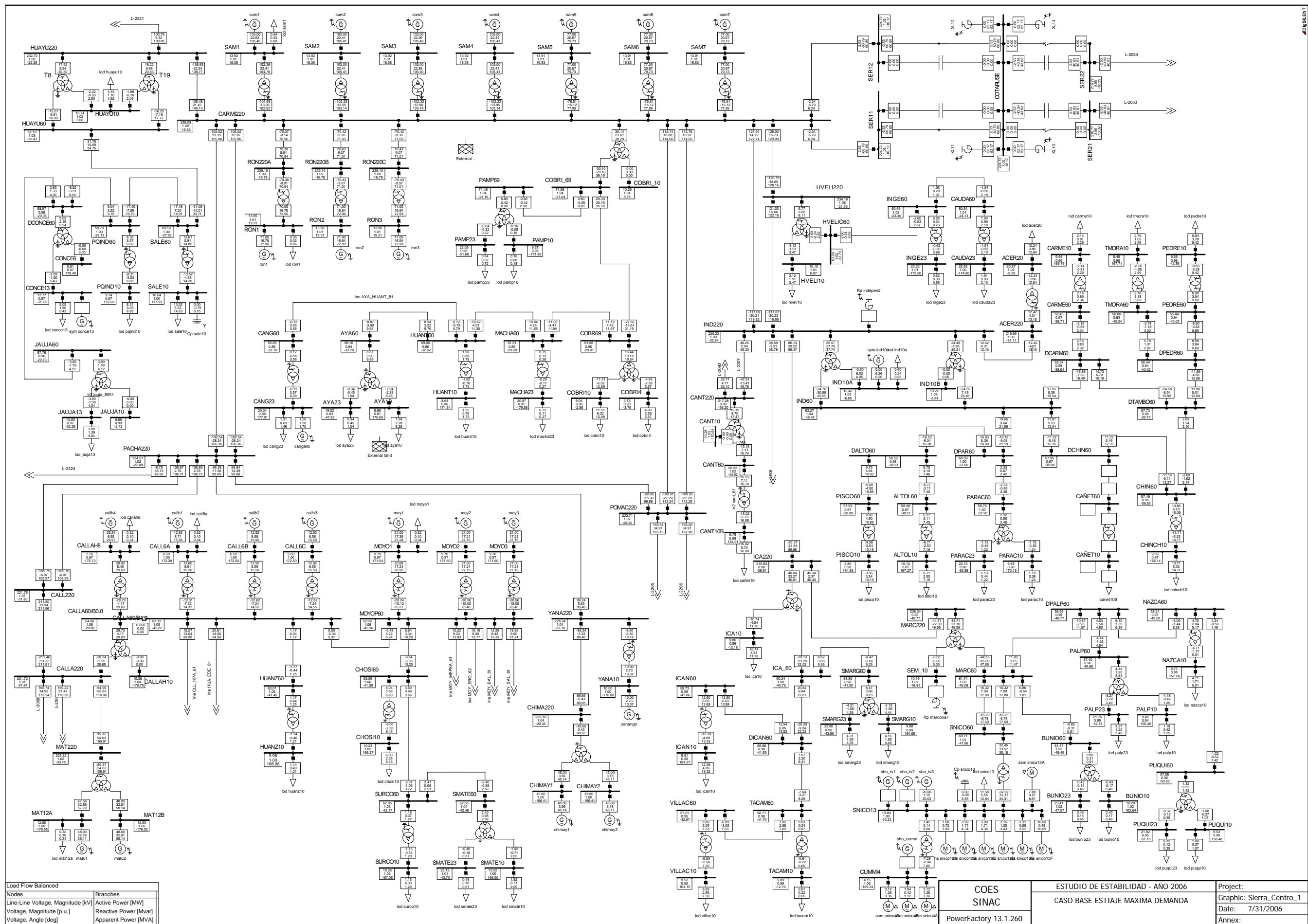


Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

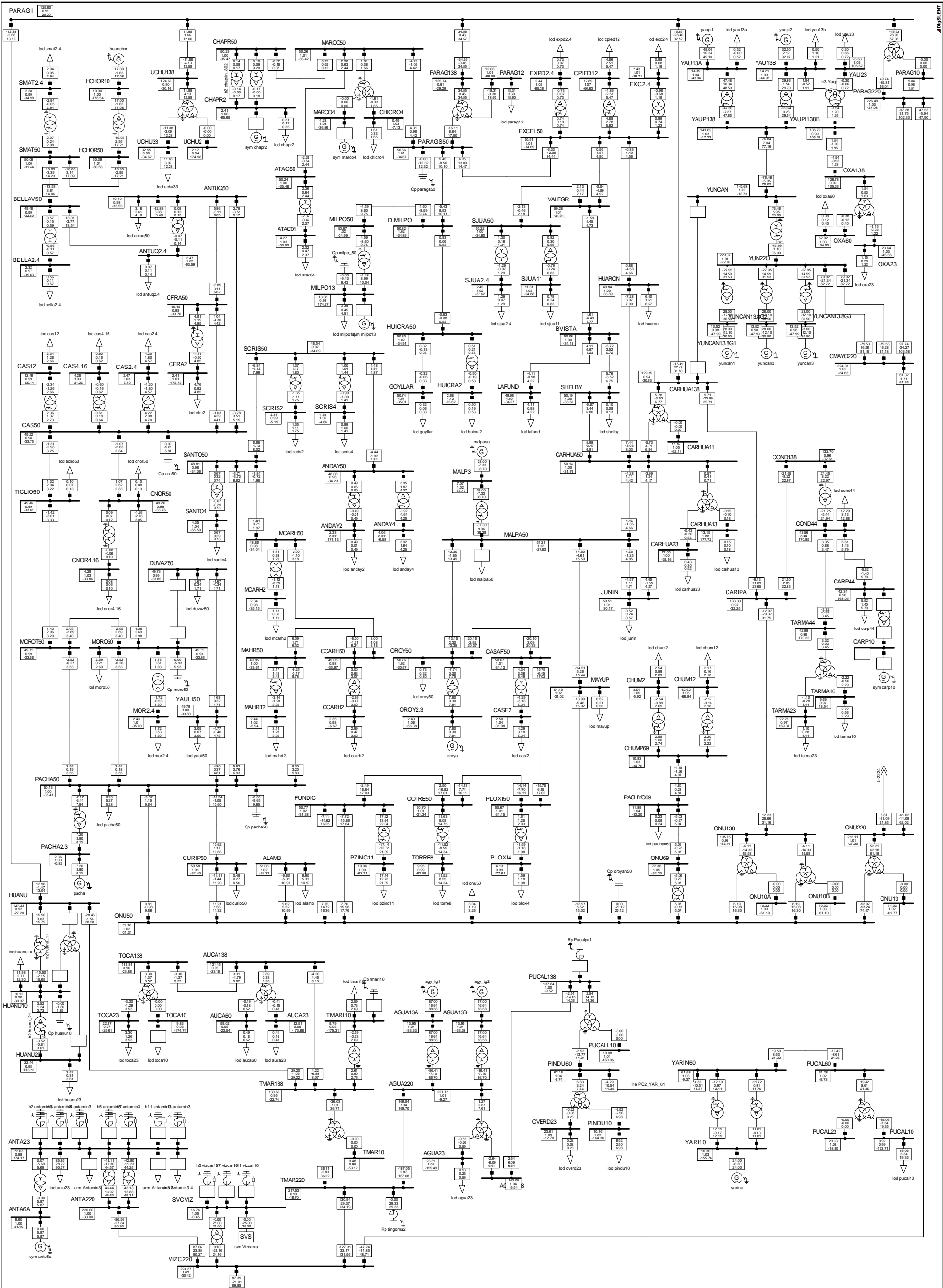
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		Annex:

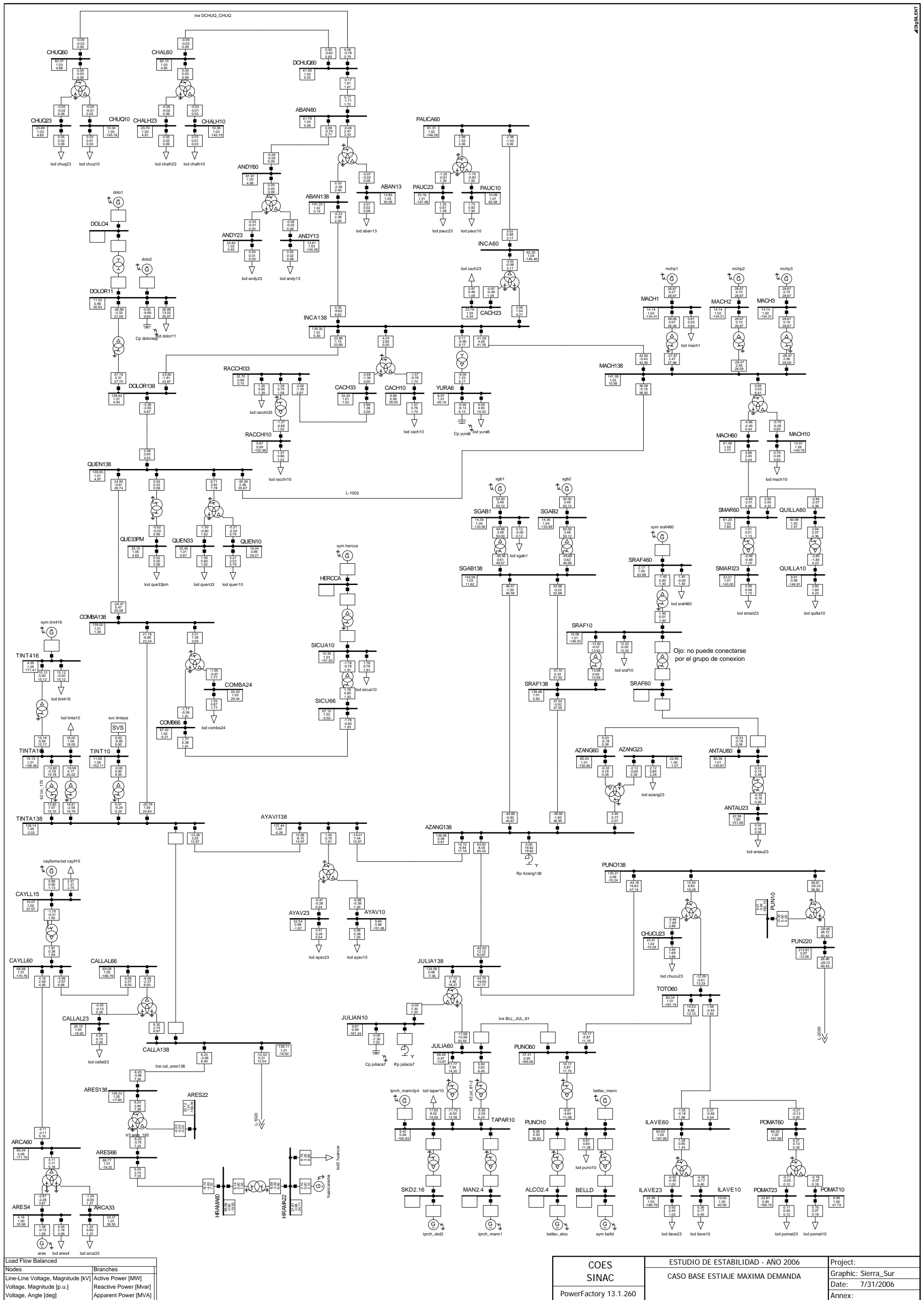






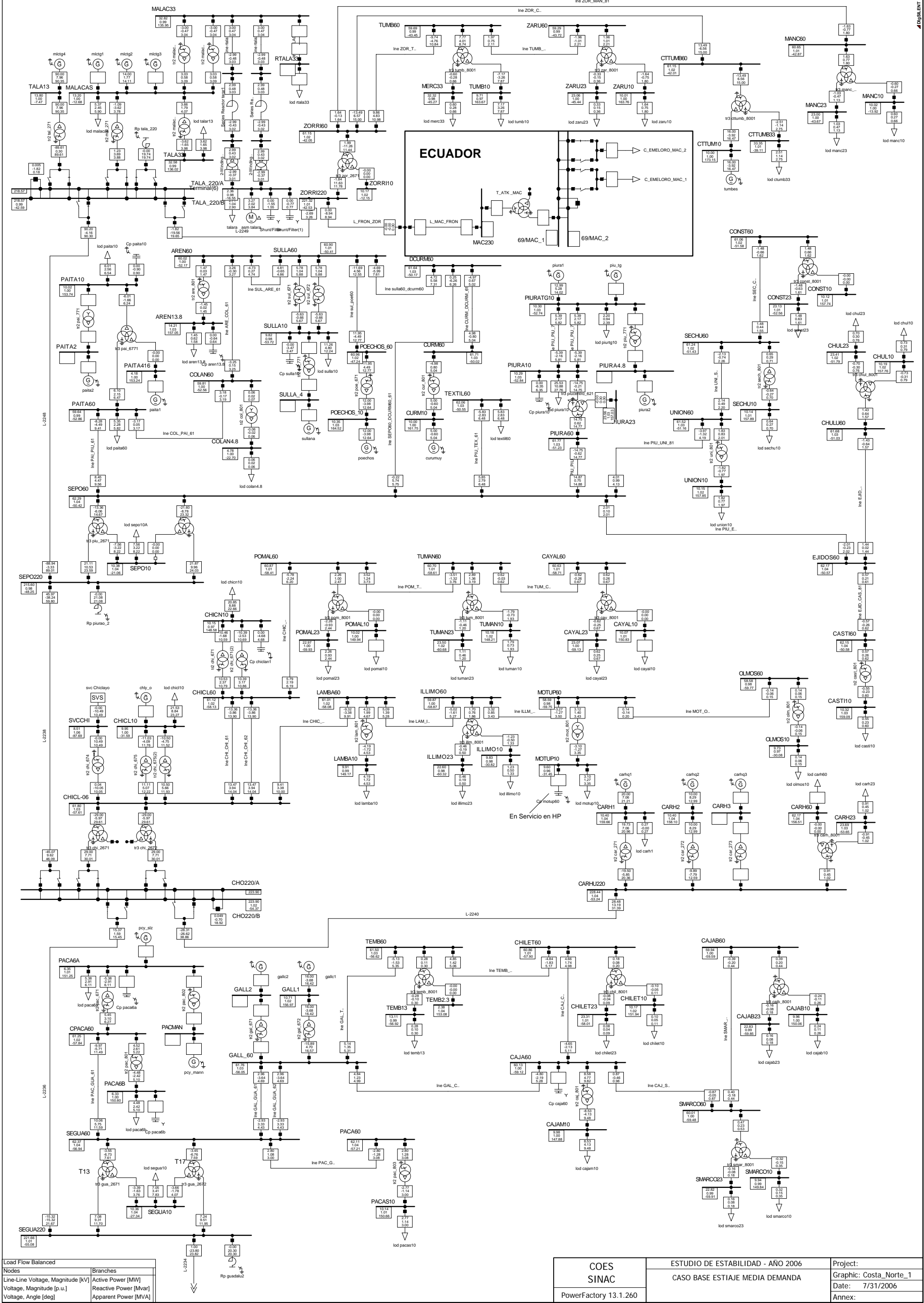
Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]





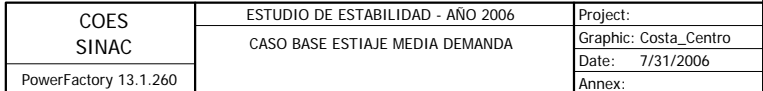
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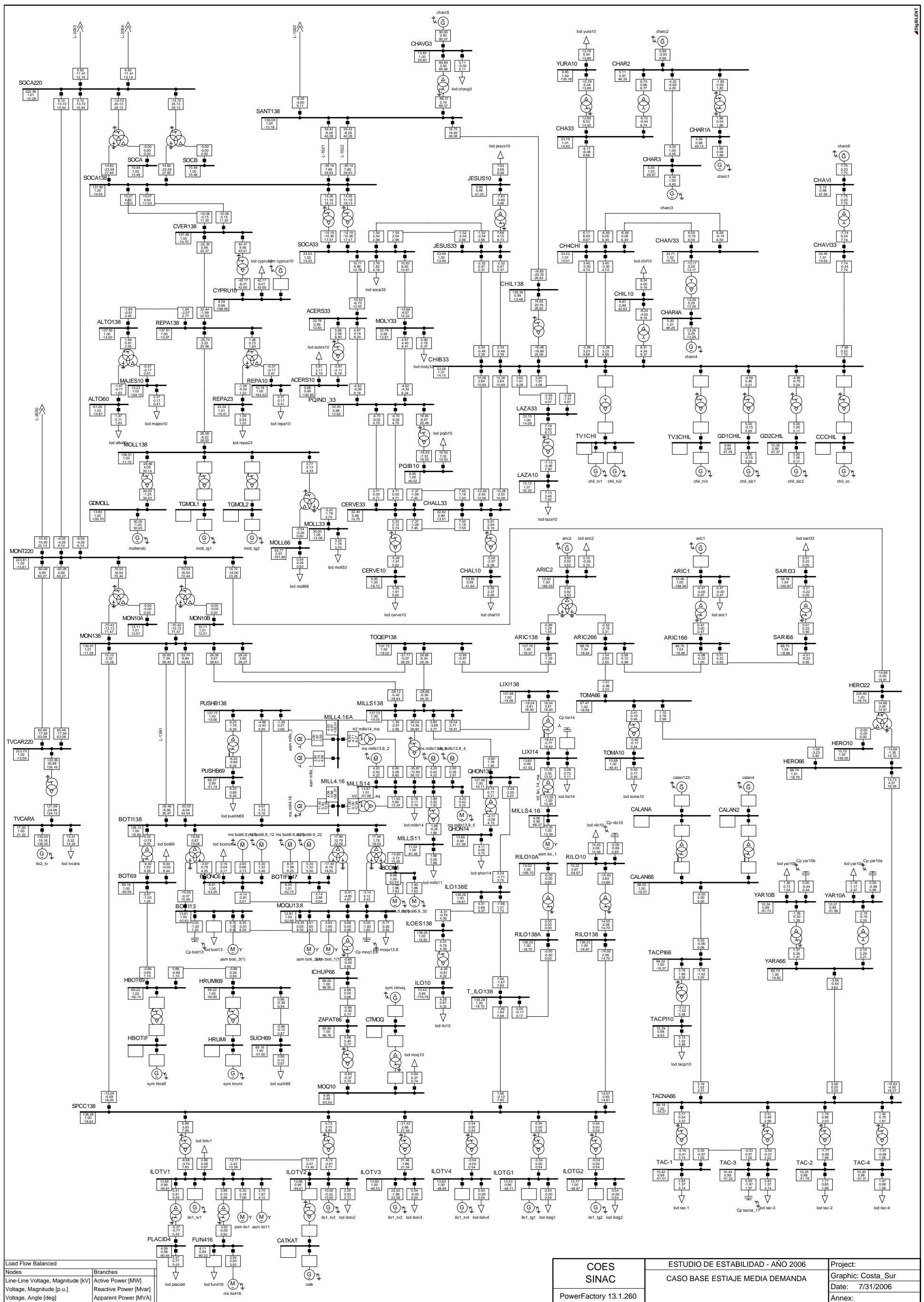
MEDIA DEMANDA EN ESTIAJE



Load Flow Balanced	Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Voltage, Magnitude [p.u.]	Active Power [MW]
Voltage, Angle [deg]	Reactive Power [Mvar]	Apparent Power [MVA]

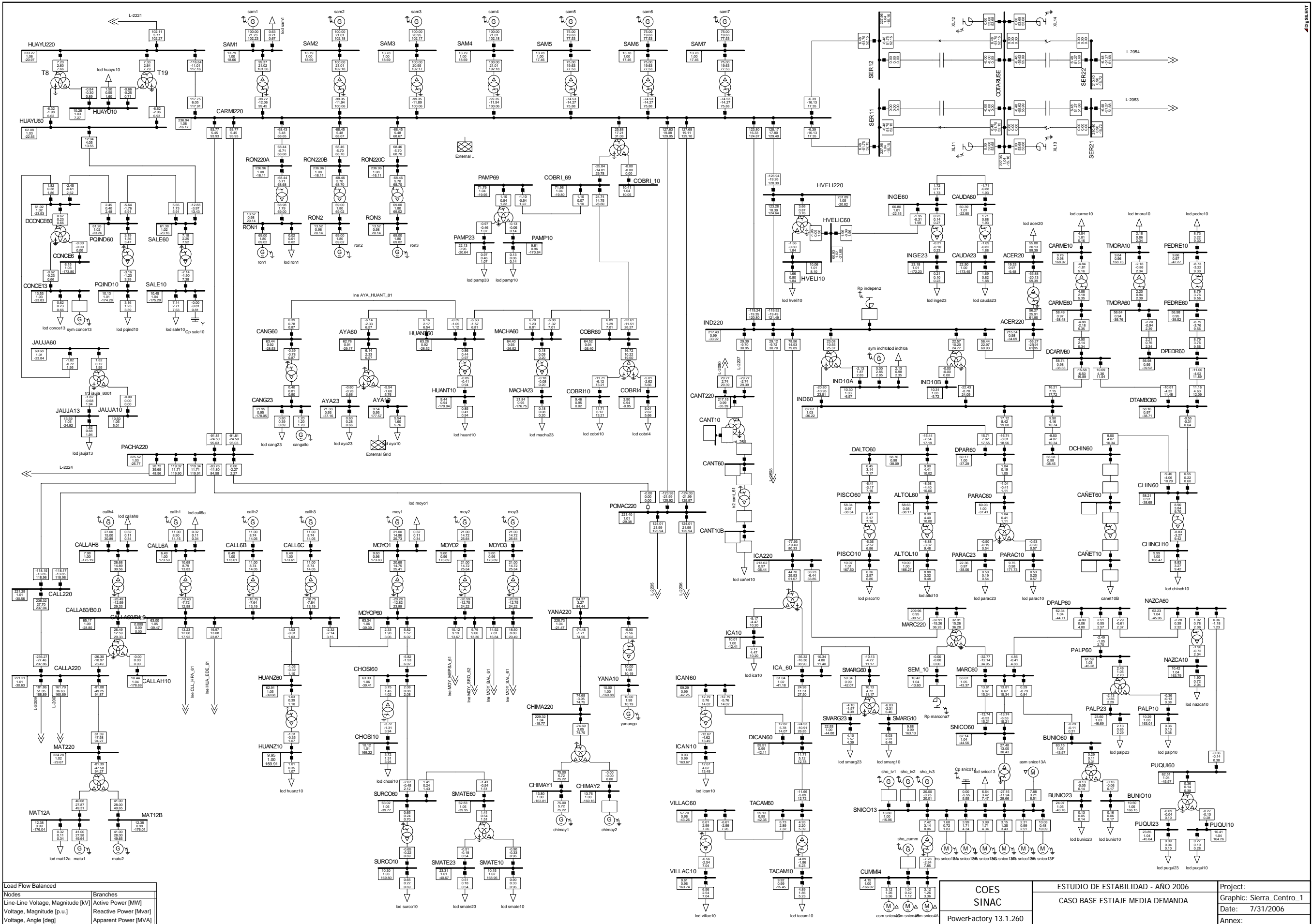
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PowerFactory 13.1.260		Date: 7/31/2006
		Annex:





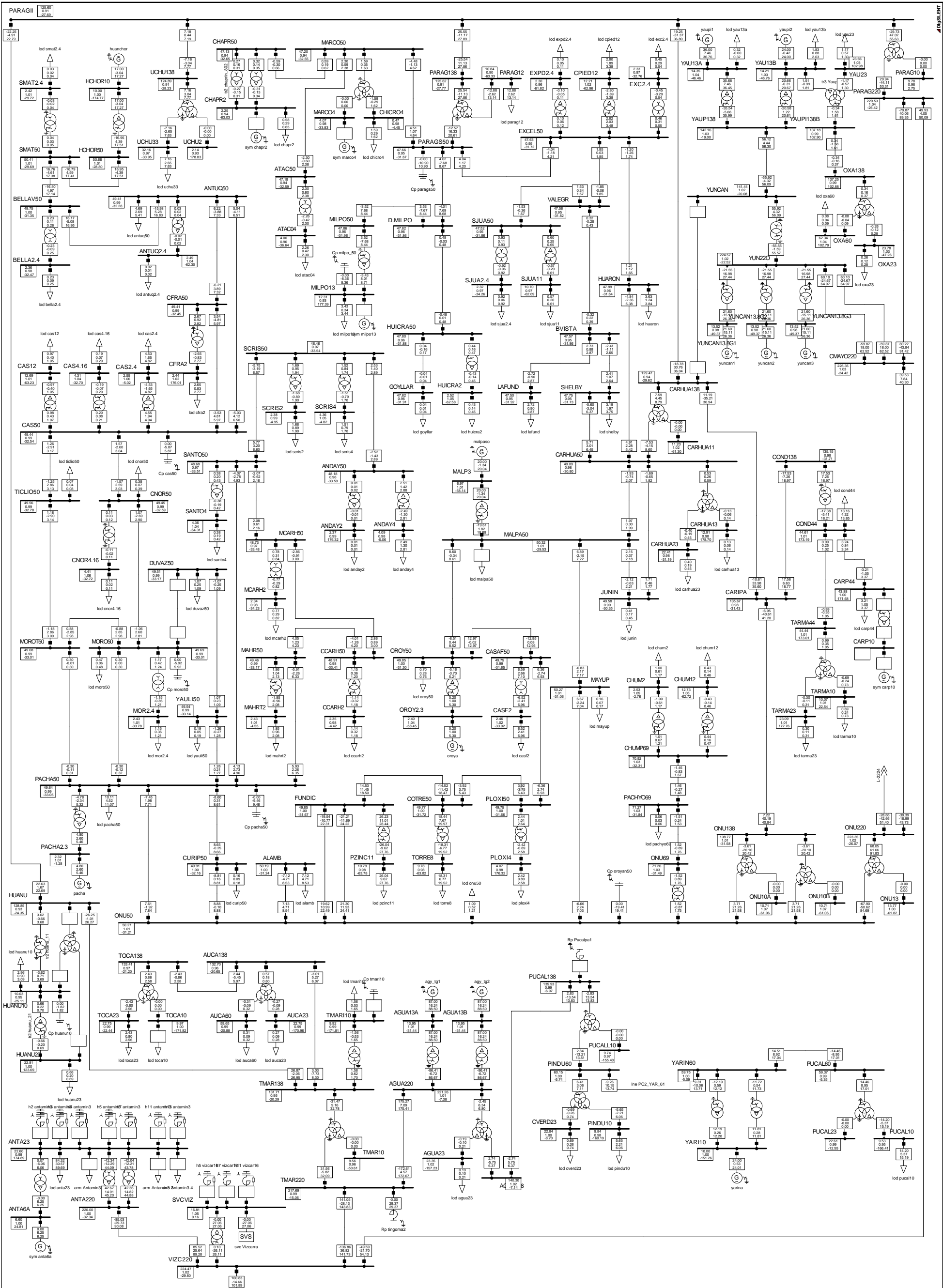
Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
	CASO BASE ESTIAJE MEDIA DEMANDA	Graphic: Costa_Sur
PowerFactory 13.1.260		Date: 7/31/2006
		Annex:



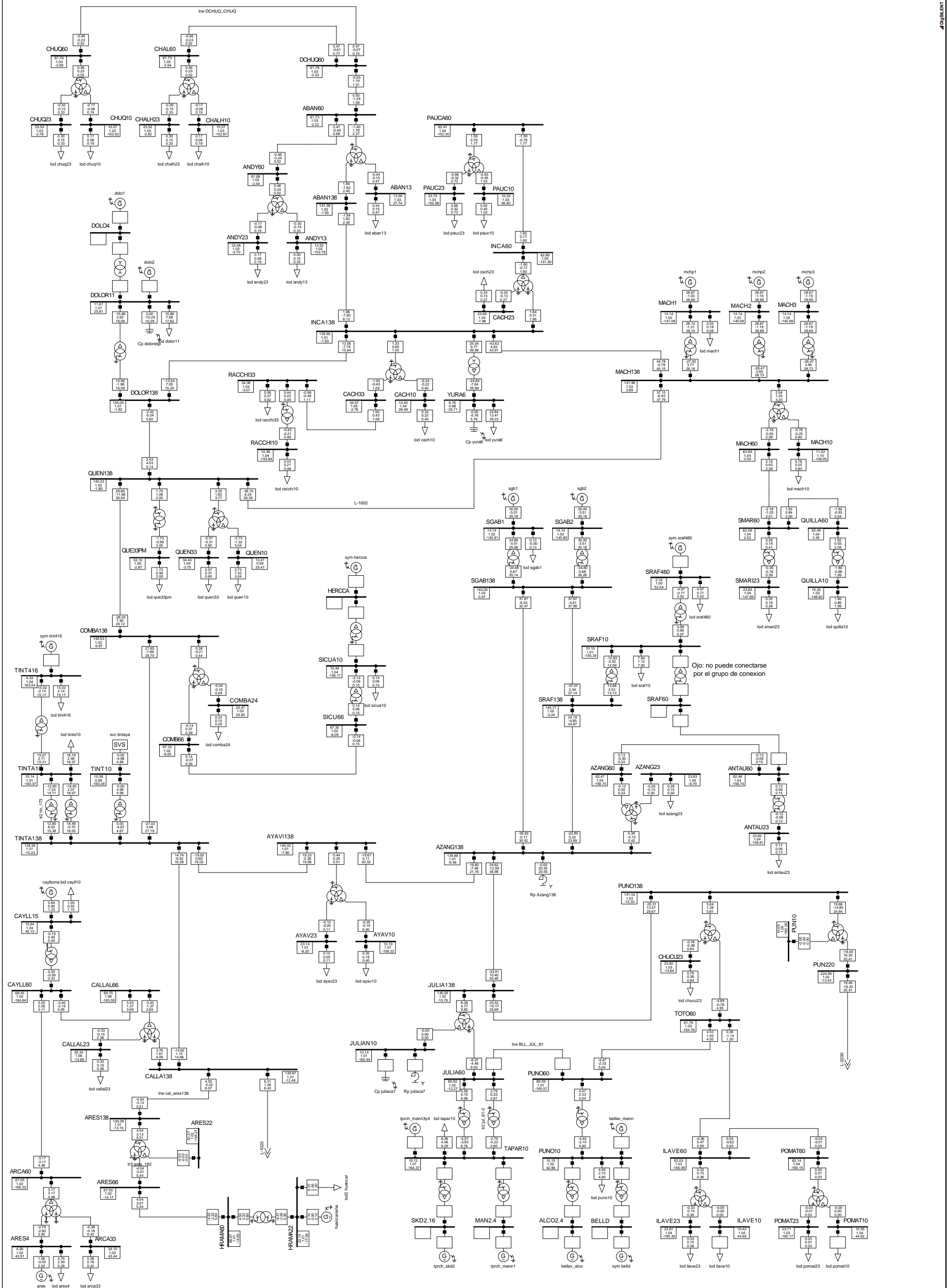
Load Flow Balanced	Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]	
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]	
Voltage, Angle [deg]	Apparent Power [MVA]	

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
PowerFactory 13.1.260	CASO BASE ESTIAJE MEDIA DEMANDA	Graphic: Sierra_Centro_1
		Date: 7/31/2006
		Annex:



Load Flow Balanced	
Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

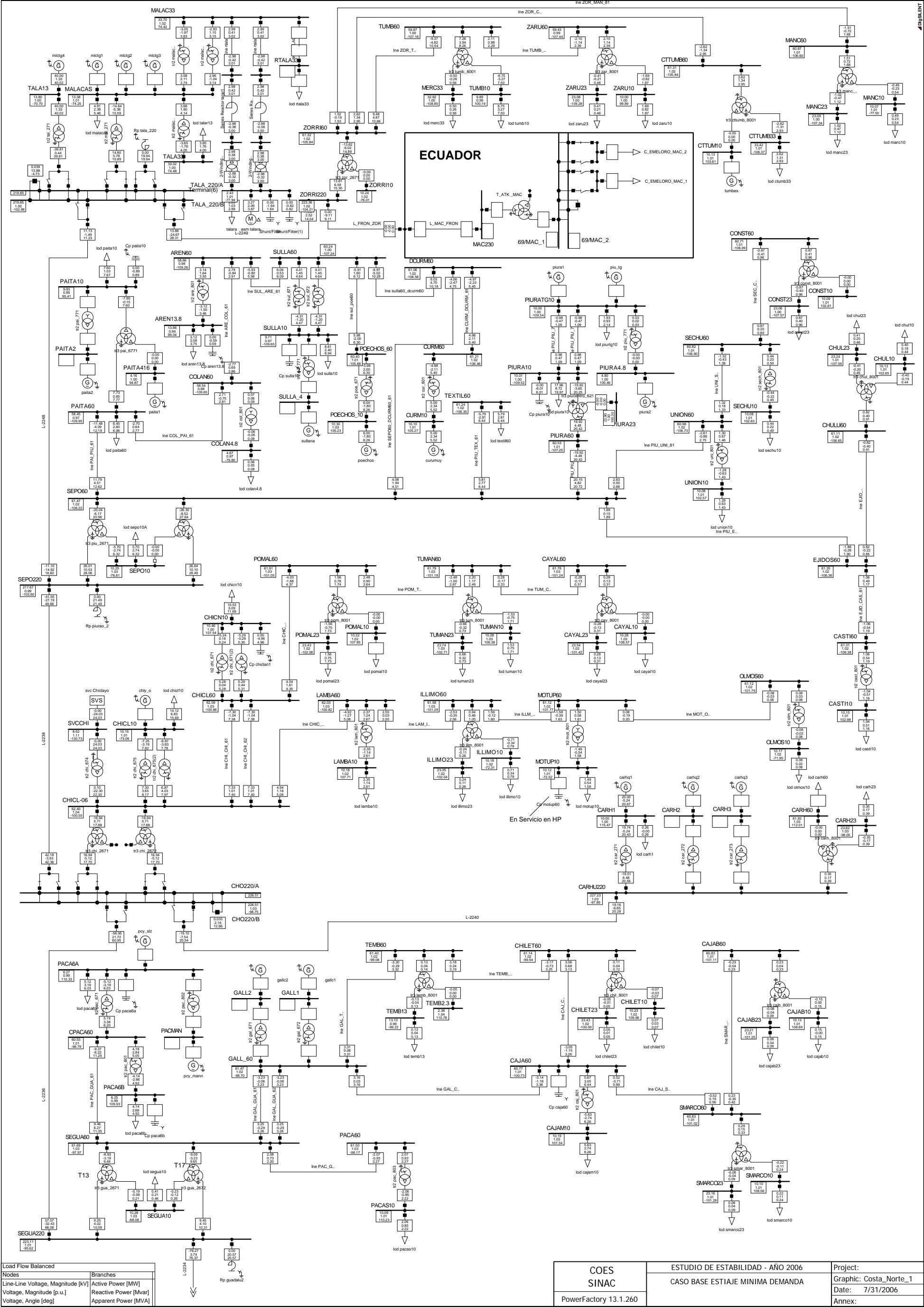
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		Annex:

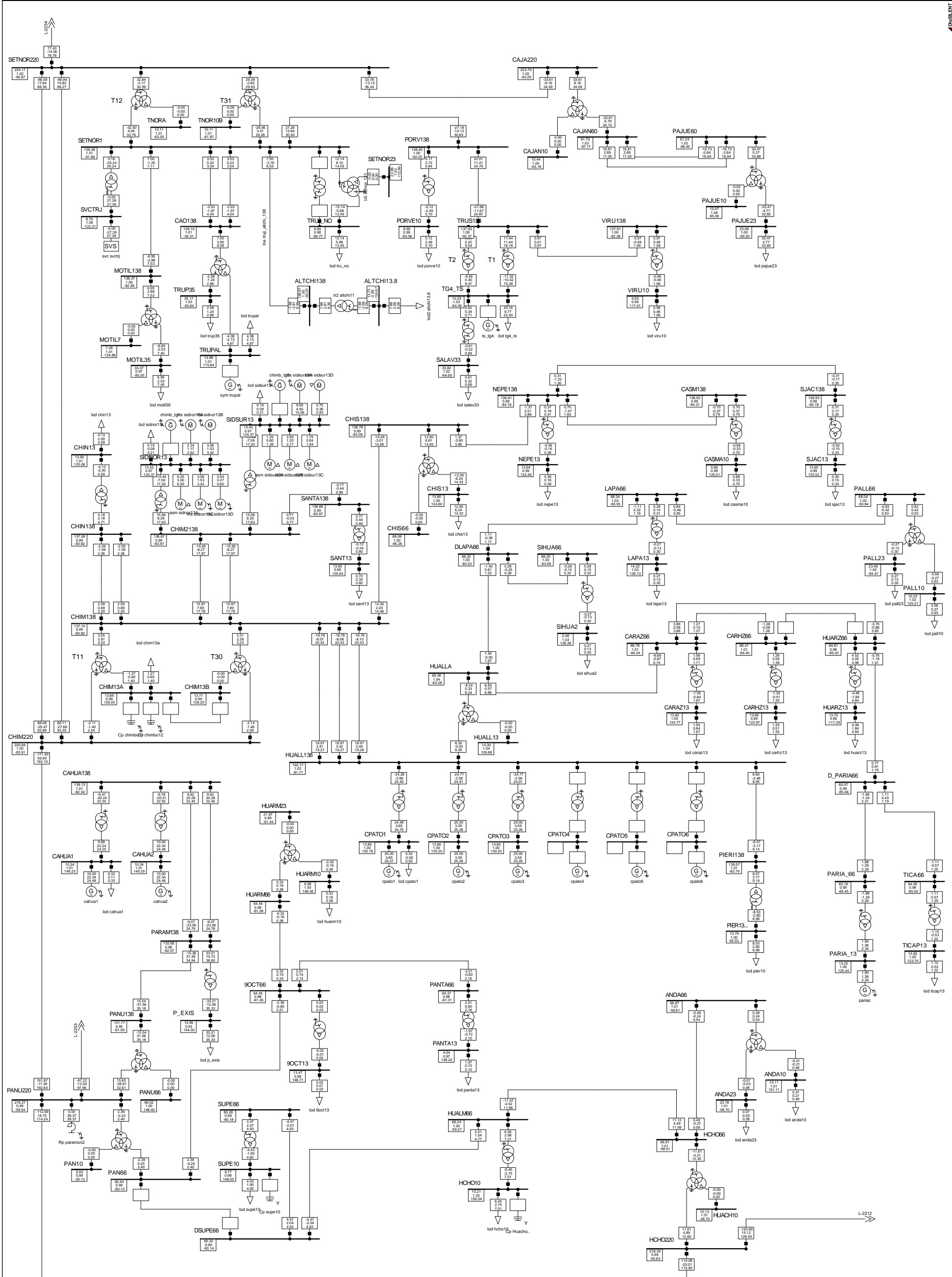


Load Flow Balanced		COES SINAC PowerFactory 13.1.260	ESTUDIO DE ESTABILIDAD - AÑO 2006 CASO BASE ESTIAJE MEDIA DEMANDA	Project:	
Nodes	Branches			Graphic: Sierra_Sur	
Line-Line Voltage, Magnitude [kV]	Active Power [MW]			Date: 7/31/2006	
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]			Annex:	
Voltage, Angle [deg]	Apparent Power [MVA]				

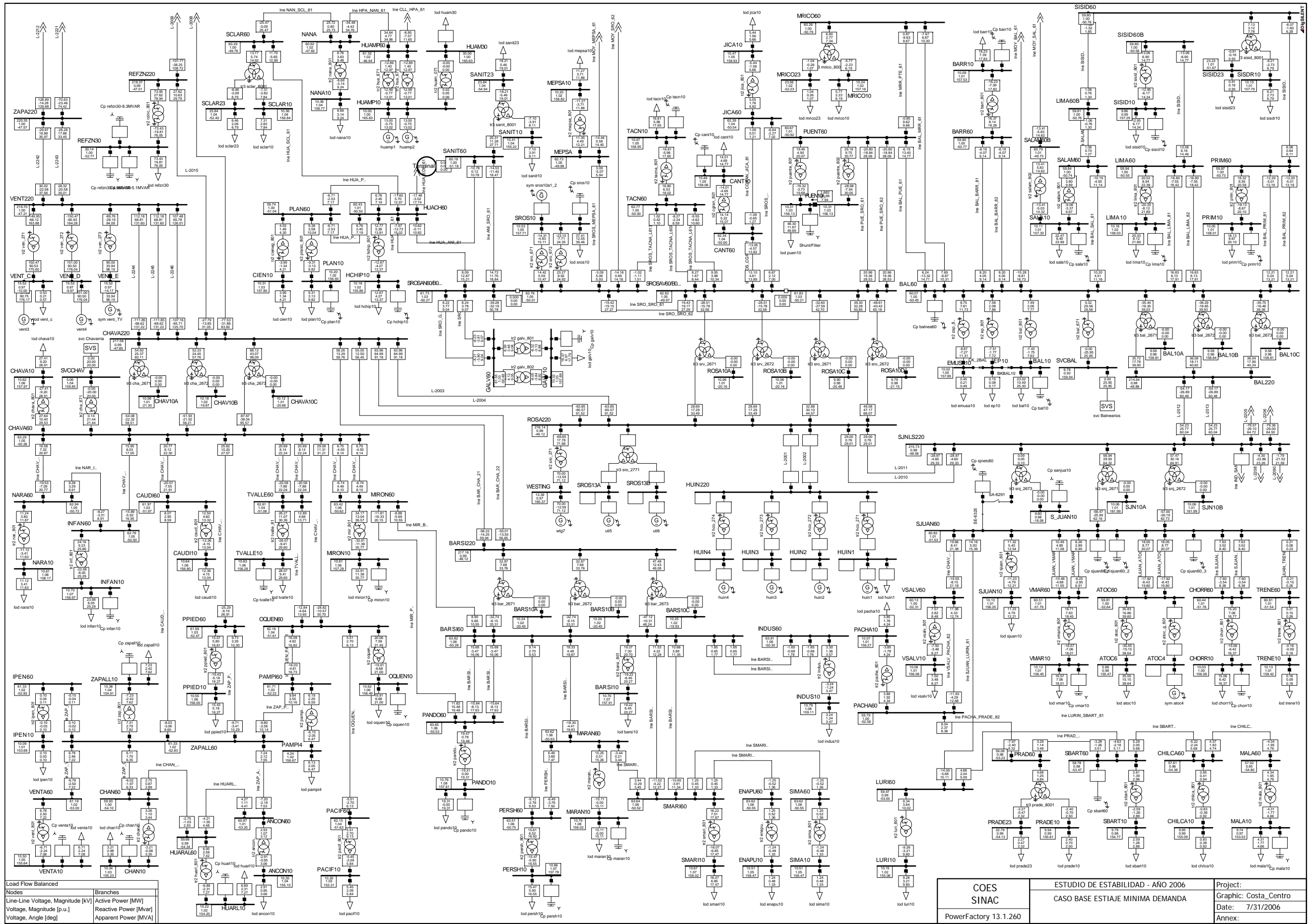
A.2.6

MINIMA DEMANDA EN ESTIAJE





COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006 CASO BASE ESTIAJE MINIMA DEMANDA	Project: Graphic: Costa_Norte_2 Date: 7/31/2006 Annex:
PowerFactory 13.1.260		



Nodes	Branches
Line-Line Voltage, Magnitude [kV]	Active Power [MW]
Voltage, Magnitude [p.u.]	Reactive Power [Mvar]
Voltage, Angle [deg]	Apparent Power [MVA]

COES SINAC	ESTUDIO DE ESTABILIDAD - AÑO 2006	Project:
PowerFactory 13.1.260	CASO BASE ESTIAJE MINIMA DEMANDA	Graphic: Costa_Centro
		Date: 7/31/2006
		Annex:

