

Complementary Documents

UPON-0-NX-EL-24-500	Integrated Single line Diagram
UPON-0-NX-EL-24-501	Simplified Single Line Diagram
UPON-0-NT-EL-24-601	Single Line Diagram 150 kV AIS
UPON-0-NT-EL-24-602	Single Line Diagram 150 kV GIS Substation
UPON-0-NR-EL-24-701	Single Line Diagram 31,5 kV Switchyard
UPON-0-NX-EL-24-907	Single Line Diagram with Protection & Control 500 kV AIS & 31,5 kV AIS

Documento compuesto por (Contents):

PAGE	DESCRIPTION
01	PUNTA DEL TIGRE 500/150/31,5kV DIAGRAMA UNIFILAR PLAYA 500 kV PUNTA DEL TIGRE 500/150/31,5kV SINGLE-LINE DIAGRAM 500 kV AIS SWITCHYARD CARATULA/COVER SHEET
02	PUNTA DEL TIGRE 500/150/31,5kV DIAGRAMA UNIFILAR PLAYA 500 kV PUNTA DEL TIGRE 500/150/31,5kV SINGLE-LINE DIAGRAM 500 kV AIS SWITCHYARD PTS - 500kV UNIFILAR/SINGLE-LINE
03	PUNTA DEL TIGRE 500/150/31,5kV DIAGRAMA UNIFILAR PLAYA 500 kV PUNTA DEL TIGRE 500/150/31,5kV SINGLE-LINE DIAGRAM 500 kV AIS SWITCHYARD DATOS EQUIPAMIENTO / DATA EQUIPMENT

REV.	DATE	DESCRIPTION	DRWN	CHKD	APPD
△	Jan 19, 16	FOR CONSTRUCTION	IESRL	SI	HY
△	Jun 27, 14	FOR CONSTRUCTION	IESRL	SI	HY
△	Feb 28, 14	FIRST ISSUE	IESRL	SI	HY

FOR CONSTRUCTION

EMPLOYER:



PROJECT TITLE:
UTE Punta del Tigre CCPP, URUGUAY

CONTRACTOR:  HYUNDAI ENGINEERING & CONSTRUCTION CO., LTD.	SUBCONTRACTOR:  SIEMENS	 Ingenieria Eléctrica CONSULTORA
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DRAWN BY	DATE	TITLE: DIAGRAMA UNIFILAR PLAYA 500 kV SINGLE-LINE DIAGRAM 500 kV AIS SWITCHYARD	
IESRL	Feb 28, 14		
CHECKED BY	DATE		
SIEMENS	Feb 28, 14		
APPROVED BY	DATE		
HYUNDAI	Feb 28, 14		
SCALE	PAGE	DRAWING NUMBER	REV.:
S/E	01/03	UPON-0-NX-EL-24-502	2

PT5 - 500KV

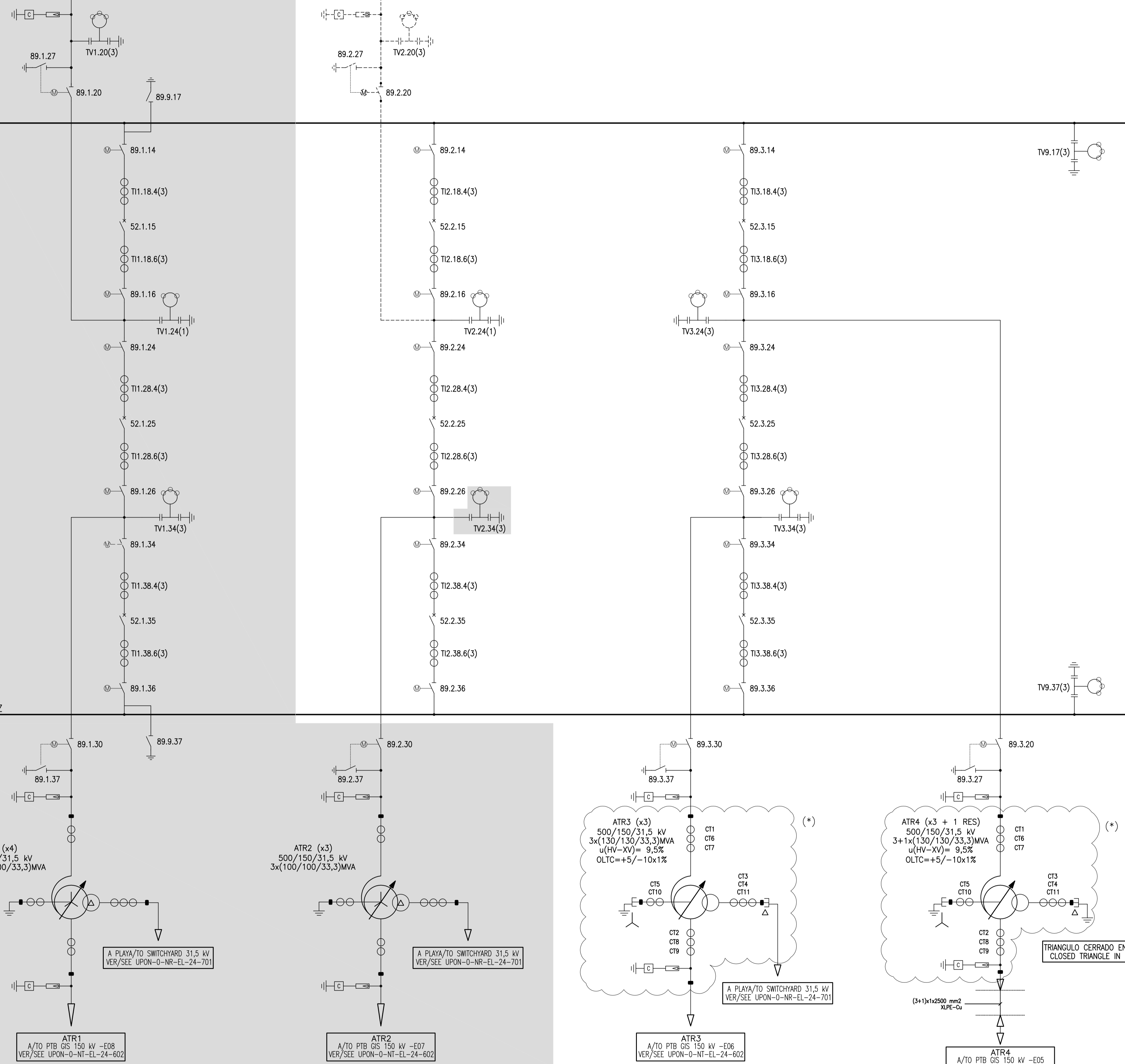
LINEA 1 / LINE 1
SALIDA DE LINEA/LINE TO
ET LAS BRUJAS 500KV (BRS)

LINEA 2 / LINE 2
SALIDA DE LINEA (FUTURA)
LINE (LATER)

BARRA I - 500kv - 50HZ

BARRA II - 500kv - 50HZ

REFERENCIAS / REFERENCES
 ----- FUERA DE ALCANCE DE CONTRATO
 OUT OF SCOPE OF CONTRACT
 ■ INSTALACIÓN EXISTENTE/EXISTING



(*) CANTIDADES Y CARACTERISTICAS DE LOS CT's A DEFINIR POR HYUNDAI
 NUMBERS AND CHARACTERISTICS OF CT's BE DEFINED BY HYUNDAI

EQUIPOS DE MANIOBRA / HANDLING DEVICE

EQUIPO DEVICE	ID.	CAP. INT. SIMET. INT. CAP. SYMM.	In	RIGIDEZ DIELECTRICA / WITHSTAND VOLTAGE			CARACTERISTICAS CHARACTERISTIC	
				V 50 Hz	B.I.L. 1,2/50	SIL 250/2500		
DISYUNTOR CIRCUIT BREAKER	52.2.15 52.2.25 52.2.35	52.3.15 52.3.25 52.3.35	63 kAef	4000 A	620 kV	1550 kVcr	1175 kVcr	MARCA / MAKE: SIEMENS MODELO / MODEL: 3AP3 FI TIPO / TYPE: SF6 Un= 500 kV / Umax= 550 kV
SECCIONADOR DISCONNECTOR	89.2.14 89.2.16 89.2.24 89.2.26 89.2.34 89.2.36	89.3.14 89.3.16 89.3.24 89.3.26 89.3.34 89.3.36		2000 A	620 kV	1550 kVcr (+315 kVcr)	1175 kVcr	MARCA / MAKE: SIEMENS MODELO / MODEL: LAH Un= 500 kV / Umax= 550 kV
SECCIONADOR C/PAT DISCONNECTOR WITH EB	89.3.30 89.3.20	89.3.37 89.3.27		2000 A	620 kV	1550 kVcr (+315 kVcr)	1175 kVcr	MARCA / MAKE: SIEMENS MODELO / MODEL: LAH Un= 500 kV / Umax= 550 kV

TRANSFORMADORES DE TENSION / VOLTAGE TRANSFORMER

ID.	RELACION RATIO	SECUNDARIOS SIDE	UTILIZACION USE	PRESTACION SUPPLY	CLASE CLASS	CARACTERISTICAS CHARACTERISTIC	RIGIDEZ DIELECTRICA WITHSTAND VOLTAGE
TV2.24 TV3.24 TV3.34 TV9.17 TV9.37	500/1,73 / 0,1/1,73 kV	1 2 3	MEDICION MEASUREMENT PROTECCION PROTECTION	10 VA 10 VA 10 VA	0.2 3P 3P	MARCA / MAKE: TRENCH MODELO / MODEL: TCVT 550 TIPO / TYPE: CAPACITIVO/CAPACITIVE Un= 500 kV / Umax= 550 kV FACTOR TENS. / VOLTAGE FACTOR CONT. 1,2 - 30 sec 1,5	B.I.L.(1,2/50) 1550 kVcr S.I.L.(250/2500) 1175 kVcr V 50Hz 680 kV

TRANSFORMADORES DE CORRIENTE / CURRENT TRANSFORMER

ID.	RELACION RATIO	NUCLEO CORE	UTILIZACION USE	PRESTACION SUPPLY	CLASE CLASS	FACTOR N FACTOR N	CARACTERISTICAS CHARACTERISTIC	RIGIDEZ DIELECTRICA WITHSTAND VOLTAGE
T12.18.4 T12.18.6 T12.28.4 T12.28.6 T12.38.4 T12.38.6	250-500-1000/1-1-1A	1 2 3	MEDICION MEASUREMENT PROTECCION PROTECTION	10 VA 10 VA 10 VA	0.2 5P (TPY) 5P (TPY)	>5 20 20	MARCA / MAKE: TRENCH MODELO / MODEL: IOSK 550 Un= 500 kV - Umax= 525 kV Ith= 40 kAeff. / 1 s RANGO EXTENDIDO/EXTEN. RANGE 1,5	B.I.L.(1,2/50) 1550 kVcr S.I.L.(250/2500) 1175 kVcr V 50Hz 680 kV

DESCARGADORES DE SOBRETENSION / SURGE ARRESTERS

ID.	TIPO TYPE	Unom (kV)	Inom.desc (kA)	CARACTERISTICAS CHARACTERISTIC
PARA TRANSFORMADOR FOR TRANSFORMER	ZnO	396	20	MARCA / MAKE: SIEMENS MODELO / MODEL: 3EP6 396-3P542-2CF1 Umax= 550 kV Icc= 65 kA B.I.L.(1,2/50) 1641 kVcr