



PLANO DE UBICACION

NOTAS

NOTAS INSPECCION

NO.	NAME	TYPE and DISCRIPTION	UNIT	QUANTITY	REMARKS	NO.	NAME	TYPE and DISCRIPTION	UNIT	QUANTITY	REMARKS
1	Hydro-Generator Unit		set	3		5.1	PT	UNE20,(15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.2/0.5/3P,100/100/100VA	set	3*3	
1.1	Generator	Pe=120MW,Ue=15.75kV,COSΦ=0.85	set	1*3		5.2	Fuse	XRNP1-20/1	set	3*3	
1.2	Neutral point CT	LMZB-15,4000/1,5P30/5P30,20/20VA.	set	6*3		5.3	Arrestor	Y5W1-17.5/42	set	3*3	
1.3	Neutral point CT	LMZB-15,400/1,5P30/5P30,20/20VA.	set	1*3		6	CT		set	27	
1.4	Neutral earthing cabinet of the generator	earthing transformer (single phase Ue=15kV) , including the disconnector	set	1*3		6.1	Generator circuit CT	LMZB-20,8000/1,0.5/0.2s/0.5/0.5,20/20/20/20VA	set	3*3	
2	GCB assembly equipment		set	3		6.2	Generator circuit CT	LMZB-20,8000/1,5P30/5P30/TPY20/TPY20,20/20VA	set	3*3	
2.1	SF6 generator circuit breaker	17.5kV. 63kA. 6300A	set	1*3		6.3	Generator circuit CT	LMZB-20,8000/1,5P30/5P30,20/20VA	set	3*3	
2.2	Disconnector	17.5kV. 63kA. 6300A	set	1*3		7	IPB		set	3	
2.3	Earthing switch	17.5kV	set	2*3		7.1	main bus	24V,6300A	three-phase meter		
3	Equipment of Auxiliary transformer branch		set	3		7.2	branch bus	24kV,1250A	three-phase meter		
3.1	High-voltage Auxiliary transformer	DCB11-1250/15,(15.75±2.5%)/(13.2/√3)kV,1250kVA,6%,Dyn11,no-load,single phase	set	3*3		8	Exitation equipment		set	3	
3.2	Circuit breaker	630A,31.5kA	set	1*3		8.1	Exitation transformer	20kV,single phase	set	3*3	
3.3	FU&FR	200A,80kA	set	1*3		8.2	Exitation circuit CT	LMZB20,8000/1,5P30/5P30,20/20VA;400/1,0.5/0.5/5P30/5P30,20/20/20/20VA	set	3*3	
3.4	Disconnector	630A	set	1*3		8.3	Exitation circuit CT	LMZB-20,1000/1,5P30/5P30,20/20VA	set	3*3	
3.5	Current transformer (CT)	20kV,400/1,0.5/0.2s/5P30/5P30,20/20/20/20VA. 3000/1,TPY20/TPY20	set	6*3		9	Main transformer and Auxiliaries				
4	Protective PT cabinet at Generator outlet		set	3		9.1	Three phase double winding transformer	145MVA,500±8x1.25%/15.75kV,YN,d11	set	3	
4.1	PT	UNE20,(15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.2/3P/3P,100/100/100VA	set	3*3		9.2	CT in neutral bushing	LRB-110, 100/1,5P30/5P30,20/20VA	set	1*3	
4.2	PT	UNE20, (15.75/√3)/(0.11/√3)/(0.11/√3)/(0.11/3),0.5/3P/3P,100/100/100VA	set	3*3		10	500kV outgoing line equipment		set	3	
4.3	PT	UNE20,(15.75/√3)/(0.11/√3),0.5,50VA	set	6*3		10.1	ZnO arrestor	420kV,20kA,820kV	set	3*3	
4.4	Fuse	XRNP1-20/1	set	12*3		10.2	Electromagnetic voltage transformer	Ue=500kV,(500/√3)/(0.11/√3)/(0.11/√3)/(0.11)kV,0.2/3P/3P,100/100/100VA	set	3*3	
5	PT and arrestor cabinet		set	3		10.3	CT in GIB	600/1,TPY20/TPY20;200/1,5P30/5P30/0.2S/0.5/5P30/5P30,20/20/20/20/20/20 VA	set	3*3	

LISTA DE REVISIONES

01	MODIFICACIONES	13-03-2018	BYF	BYF	SJO	LLW
02	MODIFICACIONES	28-12-2017	BYF	BYF	SJO	LLW
03	GENERATOR VOLTAGE CHANGE	28-10-2017	BYF	BYF	SJO	LLW
04	MODIFICACIONES	08-05-2017	BYF	BYF	SJO	LLW
05	EXEMBR ORIGINAL	25-03-2017	BYF	BYF	SJO	LLW

REVISIONES

FECHA	PROYECTO	ELABORADO	REVISADO	VERIFICADO

MINISTERIO DE ENERGIA Y MINERIA
SECRETARIA DE ENERGIA ELECTRICA
SUBSECRETARIA DE ENERGIA HIDROELECTRICA

APROVECHAMIENTOS HIDROELECTRICOS DEL RIO SANTA CRUZ
CONDOR CLIFF Y LA BARRANCOSA

REPRESA LA BARRANCOSA

Mechanical & Electrical Works
Middle Voltage Electrical Equipments
General Single Line Diagram

FORMA ADI

FECHA

ESCALA

PLANO

LB-B,HM-PL-JH-CM-00-02)*P001

REVISOR

02