

Inicio : 25-08-2020 12:30:00

Final : 25-08-2020 17:30:00

Fecha de Realización

27-09-2020 03:11:39

## PR. Variables Operación

I.Original

IDENT	DESCRIPCION	UNIDADES	VAL.ONL	OBJ.ONL
	<b>1.Tiempos</b>			
_TIMEINI	Tiempo inicial	-	25-08-2020 12:30	
_TIMEFIN	Tiempo final	-	25-08-2020 17:30	
	<b>2.Valores Medios</b>			
	<b>Potencias y variables eléctricas</b>			
BOC2_NET_TV_kW_tot	Potencia Neta 220 kV	kW	320859	
BOC2_BRTV_kW_tot_scaled	Potencia bruta	kW	350874	
BOC2_BRTV_kVAR_tot_scaled	Potencia reactiva generador	kVAR	110424	
BOC2_BRTV_PF_sign_tot	Factor de potencia	-	-95.387	
BOC2_SSAA_kW_tot	Potencia trafo auxiliares	MW	28.754	
BOC2_SSGG_kW_tot	Potencia trafo auxiliares generales	kW	0	
BOC2_BRTV_VII_avg_scaled	Voltaje generador	V	18434	
BOC2_BRTV_Freq	Frecuencia generador	Hz	50	
BOC1_NET_AT2_kW_tot	Potencia Respaldo desde(-)/hacia(+) Bocamina 2	kW	25.225	
BOC2_GDE_kW_tot	Potencia generador diésel	kW	0	
BOC2_SSAA_PTA_kW_tot	Potencia Planta de agua	kW	54.377	
BOC2_OF_PRY_kW_tot	Potencia oficina proyectos	kW	5.0563	
BOC2_OF_CTA_kW_tot	Potencia oficina contratistas	kW	5.4326	
BOC2_AL_CARB2_kW_tot	Potencia alimentador de carbón	kW	192.67	
BOC2_NET_TV_kWh_del	Energía Neta entregada	kWh	1604420	
BOC2_NET_TV_kWh_rec	Energía Neta recibida	kWh	0	
BOC1_NET_AT2_kWh_del	Energía Respaldo entregada a Bocamina 2	kWh	126	
BOC1_NET_AT2_kWh_rec	Energía Respaldo recibida de Bocamina 2	kWh	0	
BOC2_SSAA_kWh_del	Energía Trafo Auxiliares delivered	kWh	143784	
BOC2_SSAA_kWh_rec	Energía Trafo Auxiliares received	kWh	0	
BOC2_SSGG_kWh_del	Energía Trafo Generales delivered	kWh	0	
BOC2_SSGG_kWh_rec	Energía Trafo Generales received	kWh	0	
BOC2_SSAA_PTA_kWh_del	Energía Planta de agua	kWh	272	
BOC2_SSAA_PRY_kWh_del	Energía oficina proyectos	kWh	25.289	
BOC2_SSAA_CTA_kWh_del	Energía oficina contratistas	kWh	27.142	
BOC2_SSAA_CARB2_kWh_del	Energía alimentador de carbón	kWh	962.93	
	<b>Consumo Equipos</b>			
20LAC11AP001XQ09RTU	ACTIVE POWER	MW	5.2022	
20LAC12AP001XQ09RTU	ACTIVE POWER	MW	5.2665	
20LAC13AP001XQ09RTU	ACTIVE POWER	MW	0	
20PAC20AP001XQ09RTU	ACTIVE POWER	MW	1.8511	
20PAC20AP002XQ09RTU	ACTIVE POWER	MW	1.8801	
20HFE10AN001XQ09RTU	ACTIVE POWER	MW	1.0022	
20HFE20AN001XQ09RTU	ACTIVE POWER	MW	0.98773	
20HLB10AN001XQ09RTU	ACTIVE POWER	MW	0.88036	
20HLB20AN001XQ09RTU	ACTIVE POWER	MW	1.0073	
20HNC10AN001XQ09RTU	ACTIVE POWER	MW	2.3155	
20HNC20AN001XQ09RTU	ACTIVE POWER	MW	2.2071	
20LCB11AP001XQ09RTU	ACTIVE POWER	kW	603.16	
20LCB11AP002XQ09RTU	ACTIVE POWER	kW	621.58	
20LCB11AP003XQ09RTU	ACTIVE POWER	kW	0	
20HAG10AP001XQ09RTU	ACTIVE POWER	kW	190.85	
20HAG20AP001XQ09RTU	ACTIVE POWER	kW	194.35	
20HAG30AP001XQ09RTU	ACTIVE POWER	kW	0	
20HFC10AJ001XQ09RTU	ACTIVE POWER	kW	0	
20HFC20AJ001XQ09RTU	ACTIVE POWER	kW	337.5	
20HFC30AJ001XQ09RTU	ACTIVE POWER	kW	387.02	
20HFC40AJ001XQ09RTU	ACTIVE POWER	kW	343.16	
20GAC10AP001XQ11	DEMI PLANT WASHING PUMP CURRENT	A	2.8757	
20GAC11AP001XQ11	RAW WATER DISTRIBUTION. PMP1 CURRENT	A	0	
20GAC11AP002XQ11	RAW WATER DISTRIBUTION. PMP2 CURRENT	A	41.322	

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20GHC10AP001XQ11	DEMI WTR DISTR PMP1 CURRENT	A	0	
20GHC10AP002XQ11	DEMI WTR DISTR PMP2 CURRENT	A	15.809	
20GHC10AP003XQ11	DEMI WTR DISTR PMP3 CURRENT	A	6.2578	
20HLD10AC001XQ11	CURRENT RAH 1	A	5.2172	
20HLD20AC001XQ11	CURRENT RAH 2	A	8.9079	
20MAJ21AP001XQ11	CURRENT	A	64.321	
20MAJ21AP002XQ11	CURRENT	A	0	
20PCB21AP001XQ11	CIRC WTR BOOS PP CURRENT	A	0	
20PGB30AP001XQ11	CURRENT	A	319.4	
20PGB30AP002XQ11	CURRENT	A	287.75	
20PGB30AP003XQ11	CURRENT	A	0_E	
<b>Gases y Emisiones</b>		-	<b>0_E</b>	
20HNA10CQ001XQ01	O2 BEFORE RAH 1	%	2.8656	
20HNA20CQ001XQ01	O2 BEFORE RAH 2	%	3.8312	
20HTA10CQ002XQ01	O2 CONTENT FGD INLET	%	5.7669	
20CKR20CQ005XQ01CEMS	O2 MEASURE DRY	VOL%	5.9064	
20CKR20CQ006XQ01CEMS	O2 WET MEASURE	VOL%	5.5102	
20CKR20CT001XQ01	FLUE GAS TEMP CHIM STACK	°C	81.716	
20CKR20CF001XQ01	FLUE GAS FLOW	t/h	1630.9	
BOC2_CEMS_CO2NOR	PROMEDIO MINUTO NORMALIZADO DIOXIDO CARBONO	%	13.848	
BOC2_CEMS_O2NOR	PROMEDIO MINUTO NORMALIZADO OXIGENO BASE	%	5.8218	
BOC2_CEMS_O2ZRMIN	PROMEDIO MINUTO OXIGENO BASE HUMEDA	%	5.1927	
BOC2_CEMS_CONOR	PROMEDIO MINUTO NORMALIZADO OXIDO CARBONO	mg/Nm3	0.96097	
BOC2_CEMS_NONOR	PROMEDIO MINUTO NORMALIZADO OXIDOS DE NITROGENO	mg/Nm3	341.74	
BOC2_CEMS_PLVNOR	PROMEDIO MINUTO NORMALIZADO MATERIAL PARTICULADO	mg/Nm3	3.9579	
BOC2_CEMS_SO2NOR	PROMEDIO MINUTO NORMALIZADO OXIDOS DE AZUFRE	mg/Nm3	278.19	
BOC2_CEMS_QFNOR	PROMEDIO MINUTO NORMALIZADO CAUDAL DE GASES	kNm3/h	1210	
20HTA10CQ001XQ01	SO2 CONTENT FGD INLET	mg/Nm3	1221.7	
<b>Variables de Control</b>				
CV1POSGE	CV1 POS FB	%	99	
CV2POSGE	CV2 POS FB	%	100.05	
CV3POSGE	CV3 POS FB	%	90.62	
CV4POSGE	CV4 POS FB	%	35.065	
IV1POSGE	INTERCEPT VLV #1 POS FB	%	100.09	
IV2POSGE	INTERCEPT VLV #2 POS FB	%	100.1	
TNHRPMGE	HP TURBINE SPEED (RPM)	rpm	3000	
20HFB10GH001XQ01	FLOW COAL FEEDER 1	t/h	0	
20HFB20GH001XQ01	FLOW COAL FEEDER 2	t/h	43.882	
20HFB30GH001XQ01	FLOW COAL FEEDER 3	t/h	43.96	
20HFB40GH001XQ01	FLOW COAL FEEDER 4	t/h	36.165	
20HHF03HCF001XQ01	DIESEL OIL F INTO BOILER	kg/h	20353	
20HHF50CF001XQ01	RETURN OIL F	kg/h	20433	
<b>Ambientales</b>				
BOC_MET_TEMP_AMB	Temperatura ambiente	°C	13.237	
BOC_MET_PRES_ATM	Presión atmosférica	mbar	1002.7	
BOC_MET_HUM_REL	Humedad Relativa	%	66.513	
BOC_MET_VIENTO_VEL	Velocidad del viento	m/seg	13.651	
BOC_MET_VIENTO_DIR	Dirección del viento	Grados	318.42	
BOC_MET_PRECIPITACION	Precipitación	mm	0.0001182	
BOC_MET_RAD_SOL	Radiación solar	W/m2	436.11	
<b>Presiones ciclo agua-vapor</b>				
20HAD10CP001XQ01	DRUM PRESSURE	MPa	18.011	
20LBA10DCP001XQ01	OUTLET SH STEAM P1 LINE1	MPa	16.775	
20LBA30DP001XQ01	HP STEAM PRESSURE	bar	165.7	
FSPGE	FIRST STAGE SHELL PRESS	bar	79.699	

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20LBQ80CP001XQ01	TURBINE HP STAGE DISCH STEAM P	bar	74.684	
20LBC20CP001XQ01	CRH STEAM P FROM TURBINE	bar	39.212	
20LBC20DP003XQ01	CRH STEAM PRESSURE	bar	38.615	
20LBB30DP001XQ01	HRH STEAM PRESSURE	bar	36.78	
20LBQ60CP001XQ01	TURBINE IP STAGE STEAM PRESS	bar	20.902	
20LBS50CP001XQ01	IP STEAM DISCH PRESS TO DEAREAT	bar	7.6267	
20LBS40CP001XQ01	LP EXTR PRESS TO LP4 (Absoluta)	bar	5.3026	
20LBS30CP001XQ01	LP EXTR PRESS TO LP3 (absoluta)	bar	2.9416	
20LBS20CP001XQ01	LP EXTR PRESS TO LP2 (Absoluta)	bar	1.3809	
20LBS10CP001XQ01	LP EXTR PRESS TO LP1 (absoluta)	bar	0.29087	
20MAG10CP001XQ01	CONDENSER PRESSURE (Absoluta)	bar	0.033131	
20MAG10CP002XQ01	CONDENSER PRESSURE (Absoluta)	bar	0.033791	
20MAG10CP003XQ01	CONDENSER PRESSURE (Absoluta)	bar	0.034445	
20LCA21CP001XQ01	COND EXTR PUMP DISCH PRESS	bar	30.794	
20LAA20DP001XQ01	DEAERATOR TK PRESSURE	bar	7.3435	
20LAB40CP001XQ01	FW PRESSURE TO ECON	MPa	20.161	
20LBG40DP001XQ01	AUXILIARY STEAM HEADER P	bar	12.218	
20HCB31CP001XQ10	STEAM P BOILER SOOTBLOW 1	bar	0.64305	
SSMGE	STEAM SEAL MANIFOLD PRESS	bar	0.25538	
<b>Caudales ciclo agua-vapor</b>				
20LCA21DF001XQ01	CONDENSATE FLOW	t/h	960.32	
20LCA21DF002XQ01	CONDENSATE FLOW	t/h	965.22	
20LCC24CF001XQ01	CONDENSATE FLOW DOWNSTREAM HEAT EXCH	t/h	936.78	
20LAB40CF001AXQ01	FEED WATER FLOW TO ECON	t/h	1234.9	
20LAB40CF001BXQ01	FEED WATER FLOW TO ECON	t/h	0	
20LAE10CF001AXQ01	FEED WATER F INTO INJECT 1A	t/h	90.828	
20LAF10CF001XQ01	HRH STEAM ATTEMPERATION FLOW	t/h	16.419	
20LBA10DCF001XQ01	OUTLET SH STEAM FLOW LINE1	t/h	612.12	
20LBA20CF001XQ01	OUTLET SH STEAM FLOW LINE2	t/h	616.6	
20LBC41CF001XQ01	STEAM FLOW BEFORE RH1	t/h	410.46	
20LBC42CF001XQ01	STEAM FLOW BEFORE RH1	t/h	399.04	
20HAD11CF001XQ01	CONTINUOUS BLOWDOWN FLOW	t/h	1.4352	
20LBG22CF001XQ01	AUX STEAM FROM CRH FLOW	kg/h	0	
20LBG23CF001XQ01	AUX STEAM FROM MS FLOW	kg/h	0	
20LCA14CF001XQ01	MAKE-UP WATER FLOW	t/h	8.094	
20GHC17CF001XQ01	DEMI WTR FLOW FROM DEMI PLANT	m3/h	36.739	
20GHC10DF001XQ01	DEMI WATER DISTR FLOW RATE	t/h	16.478	
20PAB40CF001XQ01	SEA WATER OUTLET FLOW	m3/h	41357	
<b>Niveles</b>				
20GHC10DL001XQ01	DEMI WATER TANK LEVEL	%	97.66	
20LAA20DL001XQ01	DEARETR TK INL SIDE LEVEL	%	65.583	
20LCA14DL001XQ01	CONDENSATE STORAGE TANK LEVEL	%	24.724	
20MAG20DL001XQ01	CONDENSER LEVEL	%	44.087	
20HAD10CL001XQ01	DRUM LEVEL	mm	0.11989	
20HFA10CL001XQ01	LEVEL COAL BUNKER 1	m	20.296	
20HFA20CL001XQ01	LEVEL COAL BUNKER 2	m	15.073	
20HFA30CL001XQ01	LEVEL COAL BUNKER 3	m	15.313	
20HFA40CL001XQ01	LEVEL COAL BUNKER 4	m	16.3	
<b>Presiones aire-humos</b>				
20HFC10CP010XQ01	DIFFERENTIAL PRESSURE MILL 1	kPa	0.57818	
20HFC20CP010XQ01	DIFFERENTIAL PRESSURE MILL 2	kPa	0.0004875	
20HFC30CP010XQ01	DIFFERENTIAL PRESSURE MILL 3	kPa	3.6669	
20HFC40CP010XQ01	DIFFERENTIAL PRESSURE MILL 4	kPa	2.6083	
20HBK01CP001XQ01	FLUE-GAS P IN FURNANCE	kPa	-0.10676	
<b>Caudales aire</b>				
20HFE31CF001XQ01	COLD AIR F TO MILLS	Nm3/h	47040	

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20HLA10CF001XQ01	Caudal Aire aspiración VAS1	Nm3/h	430437	
20HLA20CF001XQ01	Caudal Aire aspiración VAS2	Nm3/h	476610	
20HLA25CF001XQ01	TERTIARY AIR FLOW 2	Nm3/h	79754	
<b>Temperaturas molinos</b>		_____	_____	_____
20HFC10CT001XQ01	T OF CLASSIFIER 1 MILL 1	°C	40.725	
20HFC20CT001XQ01	T OF CLASSIFIER 1 MILL 2	°C	77.231	
20HFC30CT001XQ01	T OF CLASSIFIER 1 MILL 3	°C	74.993	
20HFC40CT001XQ01	T OF CLASSIFIER 1	°C	75.974	
<b>Temperaturas aire-humos</b>		_____	_____	_____
20HLA12CT001XQ01	AIR T BEHIND SAH L	°C	19.544	
20HLA22CT001XQ01	AIR T BEHIND SAH L	°C	19.4	
20HLA14CT001XQ01	AIR T TO BURNERS	°C	321.1	
20HLA24CT001XQ01	AIR T TO BURNERS	°C	320.67	
20HFE12CT001XQ01	PRIMARY AIR T BEHIND RAH	°C	328.23	
20HFE22CT001XQ01	PRIMARY AIR T BEHIND RAH	°C	329.88	
20HNA10CT001XQ01	FUE GAS T BEFORE RAH 1	°C	341.63	
20HNA10CT002XQ01	FUE GAS T BEFORE RAH 1	°C	340.71	
20HNA20CT001XQ01	FUE GAS T BEFORE RAH 2	°C	344.96	
20HNA20CT002XQ01	FUE GAS T BEFORE RAH 2	°C	344.31	
20HNA12CT001XQ01	FLUE GAS T BEHIND LJ	°C	129.88	
20HNA12CT002XQ01	FLUE GAS T BEHIND LJ	°C	130.23	
20HNA22CT001XQ01	FLUE GAS T BEHIND LJ	°C	127.56	
20HNA22CT002XQ01	FLUE GAS T BEHIND LJ	°C	127.96	
20HLA10CT001XQ01	Temperatura aspiración VAS1	°C	14.797	
20HLA20CT001XQ01	Temperatura aspiración VAS2	°C	14.47	
20HTA10CT101XQ01	RAW FLUE GAS TEMP GGH INLET	°C	119.04	
<b>Temperaturas vapor</b>		_____	_____	_____
20LBA10DCT001XQ01	OUTLET SH STEAM T1 LINE1	°C	498.8	
20LBA20CT001XQ01	OUTLET SH STEAM T1 LINE2	°C	499.87	
20LBA30DT001XQ01	HP STEAM HEADER TEMPERATURE	°C	494.56	
20LBC20CT001XQ01	CRH STEAM T FROM TURBINE	°C	297.46	
20LBC20DT001XQ01	CRH STEAM TEMPERATURE	°C	296.8	
20LBB30DT001XQ01	HRH STEAM HEADER TEMPERATURE	°C	505.87	
20LBB30CT008XQ01	HRH STEAM T TO STEAM TURBINE	°C	503.72	
20LBQ80CT001XQ01	TURB HP DISCH STEAM TEMPERATURE	°C	387.17	
20LBQ70CT001XQ01	CHR STEAM TEMP	°C	295.4	
20LBQ60CT001XQ01	TURBINE IP STAGE STEAM TEMP	°C	411.94	
20LBS50CT001XQ01	IP STEAM TURBINE DISCHARGE TEMP	°C	294.18	
20LBS40CT001XQ01	LP EXTR TEMP TO LP4	°C	251.47	
20LBS30CT001XQ01	LP EXTR TEMP TO LP3	°C	192.74	
20LBS20CT001XQ01	LP EXTR TEMP TO LP2	°C	122.36	
20LBS10CT001XQ01	LP EXTR TEMP TO LP1	°C	31.674	
TTEXH1GE	EXHAUST STEAM TEMP #1	°C	30.473	
20MAG10CT001XQ01	CONDENSER STEAM TEMPERATURE	°C	29.564	
20LBG40CT001XQ01	AUXILIARY STEAM T	°C	191.87	
TTASHGE	STEAM SEAL HEADER TEMP	°C	300	
<b>Temperaturas agua alimentación/condensado</b>		_____	_____	_____
20LCA14CT001XQ01	COND STORAGE TANK TEMPERATURE	°C	13.485	
20MAG20CT003XQ01	CONDENSER WATER TEMPERATURE	°C	30.846	
20LCA21CT001XQ01	GLAND COND INLET TEMP	°C	30.437	
20LCC24CT005XQ01	EXCH 4 OUTLET TEMP	°C	149.36	
20LAA20CT001XQ01	DEAERATOR TK TEMP	°C	170.8	
20LAB40CT001XQ01	FW TEMP TO ECON	°C	284.53	
<b>Temperaturas agua mar</b>		_____	_____	_____
20PAB20CT001XQ01	CW INL CONDENSER WTRBOX 1 TEMP	°C	11.331	
20PAB20CT002XQ01	CW INL CONDENSER WTRBOX 2 TEMP	°C	11.138	



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20PAB20CT003XQ01	CW OUTL CONDENSER WTRBOX 1 TEMP	°C	19.849	
20PAB20CT004XQ01	CW OUTL CONDENSER WTRBOX 2 TEMP	°C	20.5	
20PAB40CT001XQ01	CIRC WATER OUTL TEMP	°C	19.268	