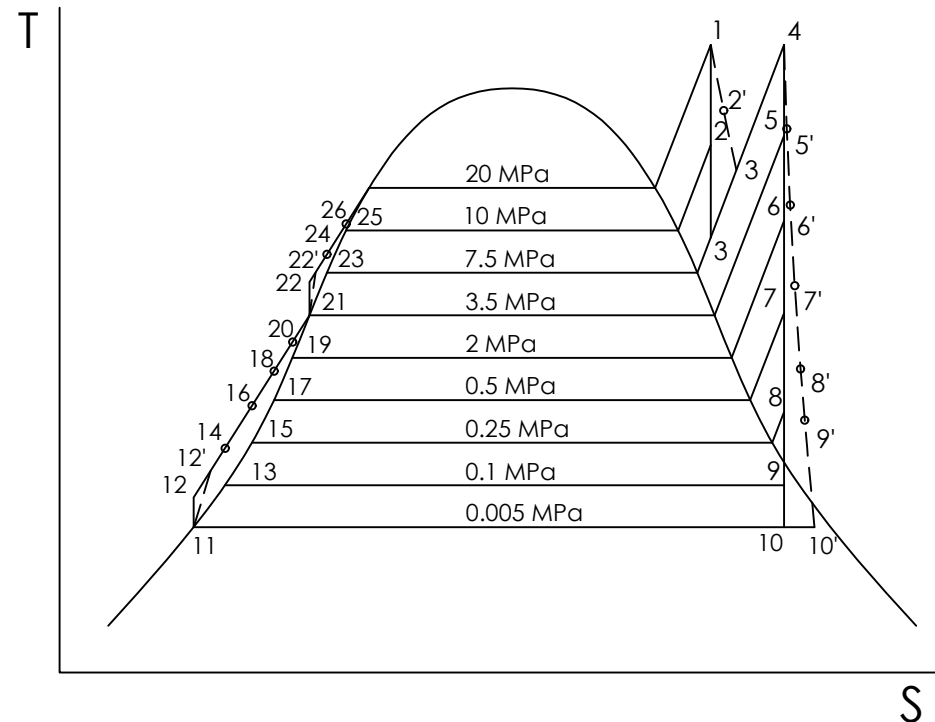


LEGEND:

CODE	DESCRIPTION
RH	REHEATER
SH	SUPERHEATER
ECO	ECONOMIZER
LP	LOW PRESSURE TURBINE
IP	INTERMEDIATE PRESSURE TURBINE
HP	HIGH PRESSURE TURBINE
G	GENERATOR
CP	CONDENSATE PUMP
FWP	FEED WATER PUMP

DWG 10
CYCLE SCHEMATIC DIAGRAM
DESIGN OPTION 3



DWG 11
T-S DIAGRAM
DESIGN OPTION 3

MASS & HEAT BALANCE

State Point	Pressure (Mpa)	Temp. (°C)	Enthalpy (kJ/kg)	Mass _{steam} (kg/s)
1	20	540	3366.37	406.494
2	10	454.945	3255.865	27.657
3	7.5	404.933	3162.805	378.837
4	7.5	540	3502.65	345.311
5	3	467.83	3384.948	324.697
6	1.5	385.178	3224.385	314.426
7	0.5	274.7936	3012.732	255.134
8	0.25	187.826	2843.513	227.089
9	0.1	99.6059	2597.888	190.685
10	0.005	32.8743	2351.307	190.685
11	0.005	32.8743	137.749	324.697
12	0.1	32.886	137.802	324.697
13	0.1	99.6059	417.504	134.012
14	0.25	99.6163	417.66	324.697
15	0.25	127.411	535.245	36.405
16	0.5	127.434	535.612	324.697
17	0.5	151.831	915.29	59.292
18	1.5	198.287	916.383	324.697
19	1.5	198.287	844.557	10.27
20	3	198.535	846.288	324.697
21	3	233.853	1008.34	406.494
22	7.5	244.823	1060.9	406.494
23	7.5	290.535	1292.93	36.405
24	10	292.171	1299.771	406.494
25	10	310.997	1408.06	33.526
26	20	316.545	1425.491	406.494



BatStateU
BATANGAS STATE UNIVERSITY
Gov. Pablo Barbon Main Campus II
Alangilan, Batangas City
MECHANICAL ENGINEERING DEPARTMENT

PROJECT LEADER		INSTRUCTOR		PROJECT / LOCATION:		OWNER		PREPARED BY:		No.	REVISIONS	DATE	SHEET CONTENT	SHEET NO.
ENGR. LEMUEL ARNEL A. RIVERA MECHANICAL ENGINEER		ENGR. ALLAN B. DE VILLA PROFESSIONAL MECHANICAL ENGINEER ASEAN ENGINEER		600 MW COAL-FIRED POWER PLANT LEMERY BATANGAS		MPR POWER CORPORATION ENGR. LEMUEL ARNEL A. RIVERA PRESIDENT		ENGR. BRYAN MERCADO					DESIGN OPTION 3	A 6
PRC Reg No.:		SECTION: ME - 5302		PTR No.		ENGR. VINCE LEMUEL PANOPIO								
TIN:		GROUP NO: 05		Issued on:		ENGR. LEMUEL ARNEL RIVERA								
DATE SUB: JULY 1, 2019				Issued at:		BatStateU Main Campus 2 Alangilan Batangas City								