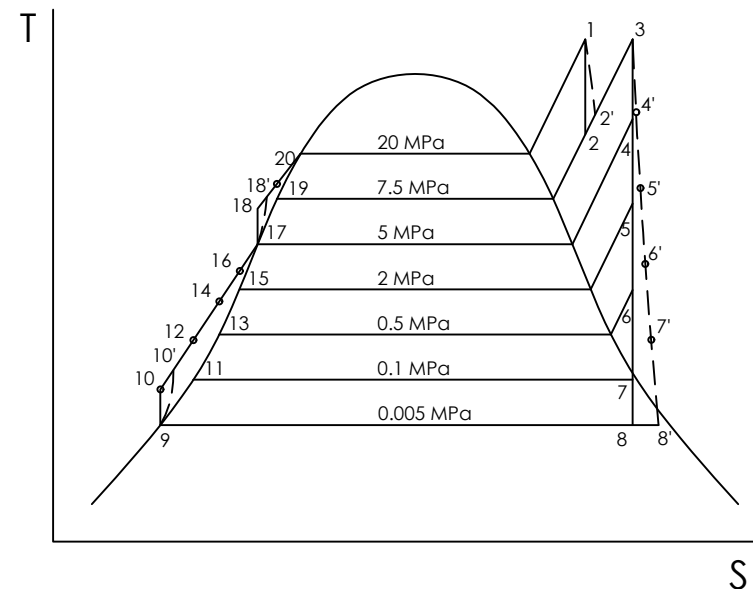


LEGEND:

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 6 CYCLE SCHEMATIC DIAGRAM  
DESIGN OPTION 1



DWG 7 T-S DIAGRAM  
DESIGN OPTION 1

MASS & HEAT BALANCE

State Point	Pressure (Mpa)	Temp. (°C)	Enthalpy (kJ/kg)	Mass <sub>steam</sub> (kg/s)
1	20	540	3366.37	419.91
2	7.5	375.498	3080.28	36.005
3	7.5	540	3502.65	384.223
4	5	469.812	3363.98	348.218
5	2	330.068	3092.92	307.504
6	0.5	163.635	2775.75	278.926
7	0.1	99.6059	2498.25	237.867
8	0.005	32.8743	2119.92	237.867
9	0.005	32.8743	137.749	384.223
10	0.1	32.8768	137.845	307.504
11	0.1	99.6059	417.504	76.719
12	0.5	99.6335	417.921	307.504
13	0.5	151.831	640.085	28.578
14	2	151.999	641.724	307.504
15	2	212.377	908.498	40.715
16	5	212.935	912.028	307.504
17	5	263.941	1154.64	419.91
18	7.5	284.692	1157.856	419.91
19	7.5	290.535	1292.93	36.005
20	20	295.439	1310.326	419.91



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

PROJECT LEADER  
ENGR. LEMUEL ARNEL A. RIVERA  
MECHANICAL ENGINEER  
PRC Reg No.:  
TIN:

INSTRUCTOR  
ENGR. ALLAN B. DE VILLA  
PROFESSIONAL MECHANICAL ENGINEER  
ASEAN ENGINEER  
PRC Reg No.:  
PTR No.:  
Issued on:  
Issued at:

PROJECT / LOCATION:  
600 MW COAL-FIRED POWER PLANT  
LEMERY BATANGAS  
BatStateU Main Campus 2  
Alangilan Batangas City

OWNER  
MPR POWER  
CORPORATION  
ENGR. LEMUEL ARNEL A. RIVERA  
PRESIDENT

PREPARED BY:  
ENGR. BRYAN MERCADO  
ENGR. VINCE LEMUEL  
PANOPIO  
ENGR. LEMUEL ARNEL  
RIVERA  
No. REVISIONS DATE

SHEET CONTENT  
DESIGN OPTION 1  
SHEET NO.

A  
4