

HEAT & MASS BALANCE

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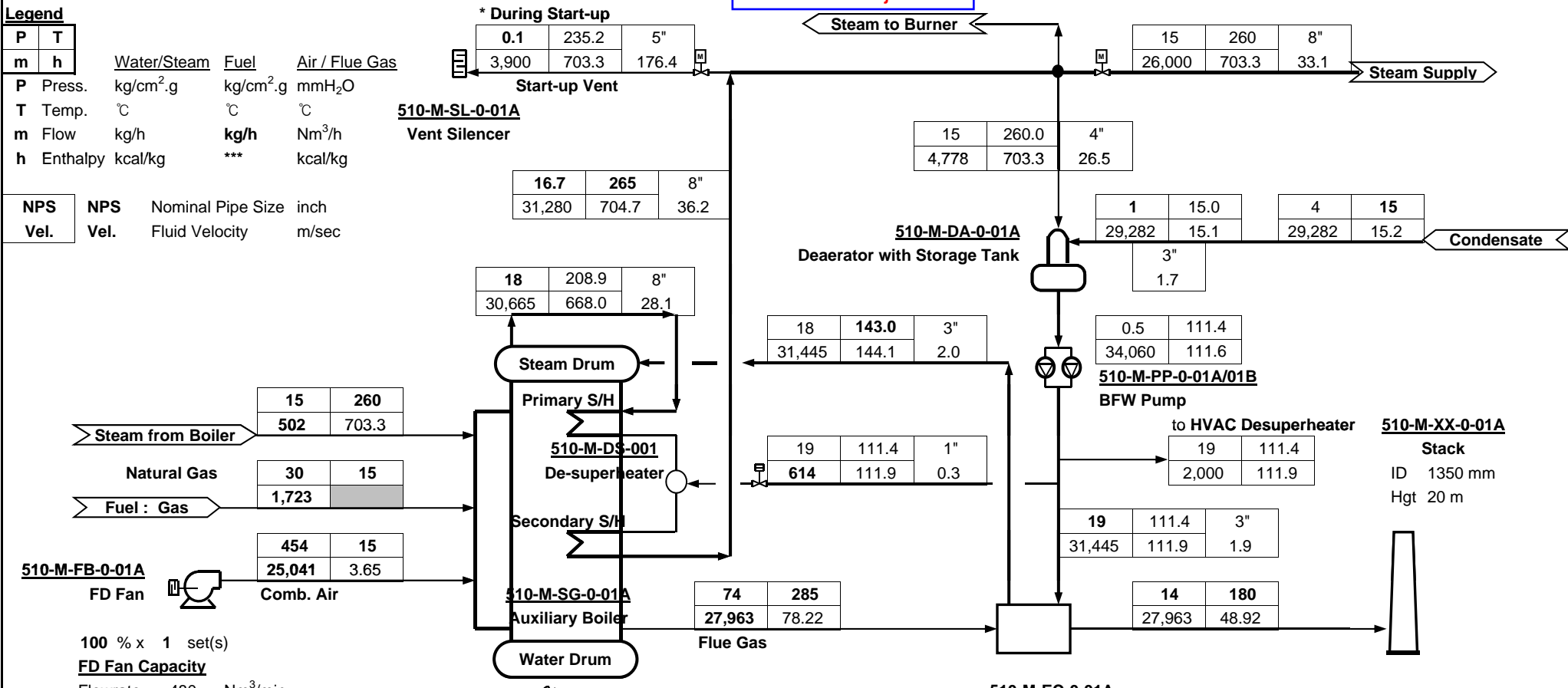
Job No.	100580	Item No.	***
Project	Pocheon LNG Power Plant	Service	Auxiliary Boiler Package

with Steam Injection

Legend

P	T			
m	h	Water/Steam	Fuel	Air / Flue Gas
P	Press.	kg/cm ² .g	kg/cm ² .g	mmH ₂ O
T	Temp.	°C	°C	°C
m	Flow	kg/h	kg/h	Nm ³ /h
h	Enthalpy	kcal/kg	***	kcal/kg

NPS	NPS	Nominal Pipe Size	inch
Vel.	Vel.	Fluid Velocity	m/sec



100 % x 1 set(s)
FD Fan Capacity
Flowrate 480 Nm³/min
Static Head 550 mmH₂O

BFW Pump Capacity
Flowrate 39,000 kg/h
41.1 m³/h
Disch. P. 25 kg/cm².g
Suct. P. 0.5 kg/cm².g

OPERATION DATA	
Boiler Capacity	26,000 kg/h
Fuel	Natural Gas
Load	100 %
Steam Flowrate	26,000 kg/h
Steam Press.	15 kg/cm ² .g
Steam Temp.	260 °C
Dea. Oper. Press.	0.5 kg/cm ² .g
Feedwater Temp.	15.0 °C
Blowdown Rate	3 %Steam Flow

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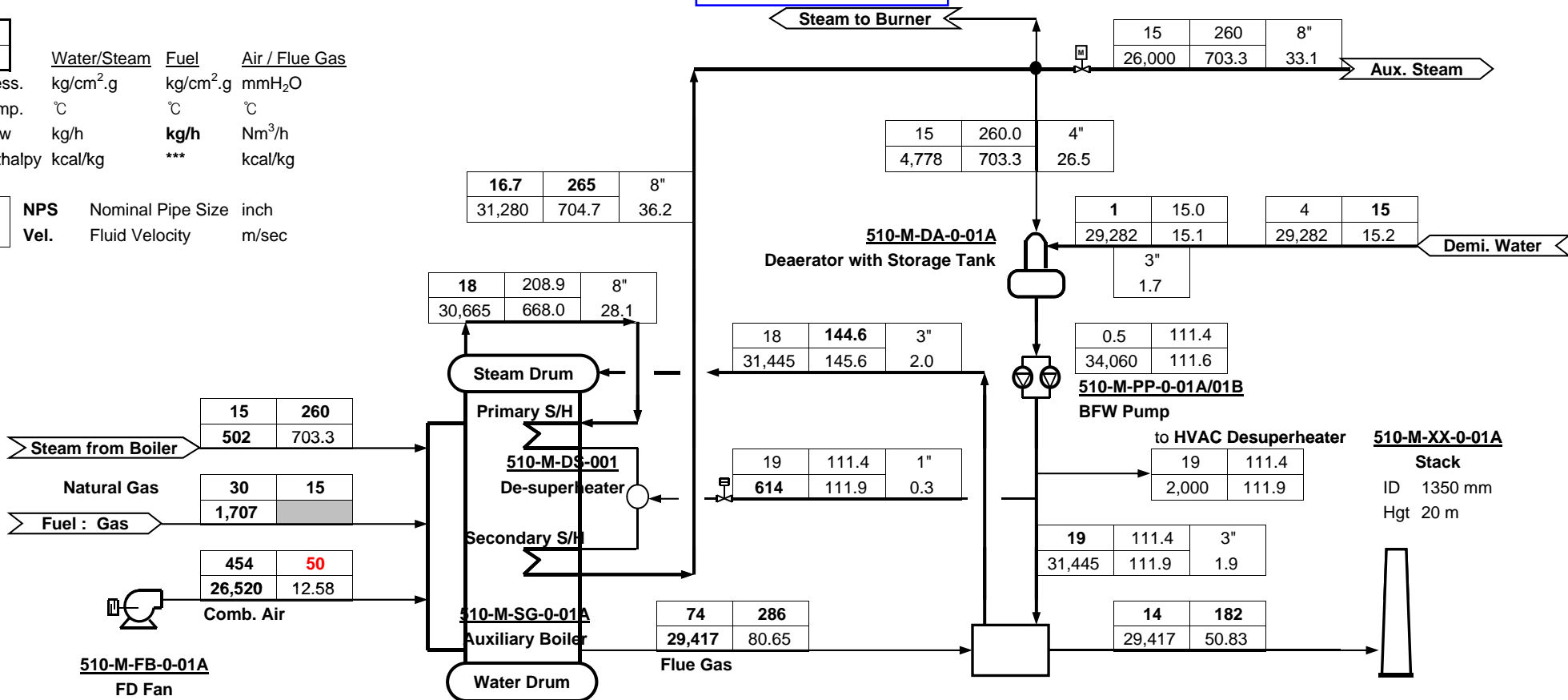
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T	Temp.	°C	°C	°C
m	Flow	kg/h	kg/h	Nm ³ /h
h	Enthalpy	kcal/kg	***	kcal/kg

NPS	NPS	Nominal Pipe Size	inch
Vel.	Vel.	Fluid Velocity	m/sec



OPERATION DATA			
Boiler Capacity	26,000	kg/h	
Fuel	Natural Gas	Air Temp.	
Load	100	%	50
Steam Flowrate	26,000	kg/h	
Steam Press.	15	kg/cm ² .g	
Steam Temp.	260	°C	
Dea. Oper. Press.	0.5	kg/cm ² .g	
Feedwater Temp.	15.0	°C	
Blowdown Rate	3	%Steam Flow	

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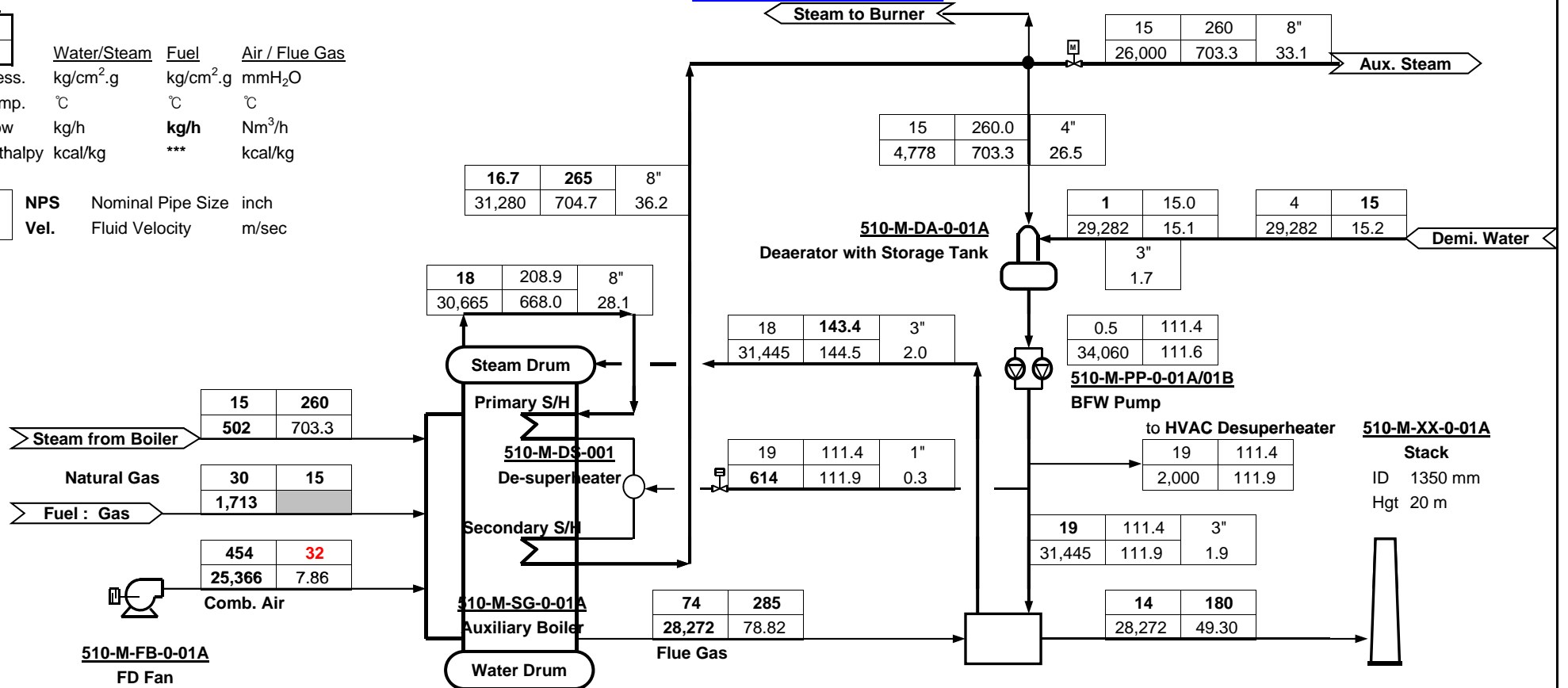
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T	Temp.	°C	°C	°C
m	Flow	kg/h	kg/h	Nm ³ /h
h	Enthalpy	kcal/kg	***	kcal/kg

NPS	NPS	Nominal Pipe Size	inch
Vel.	Vel.	Fluid Velocity	m/sec



OPERATION DATA		
Boiler Capacity	26,000	kg/h
Fuel	Natural Gas	Air Temp.
Load	100	% 32
Steam Flowrate	26,000	kg/h
Steam Press.	15	kg/cm ² .g
Steam Temp.	260	°C
Dea. Oper. Press.	0.5	kg/cm ² .g
Feedwater Temp.	15.0	°C
Blowdown Rate	3	%Steam Flow

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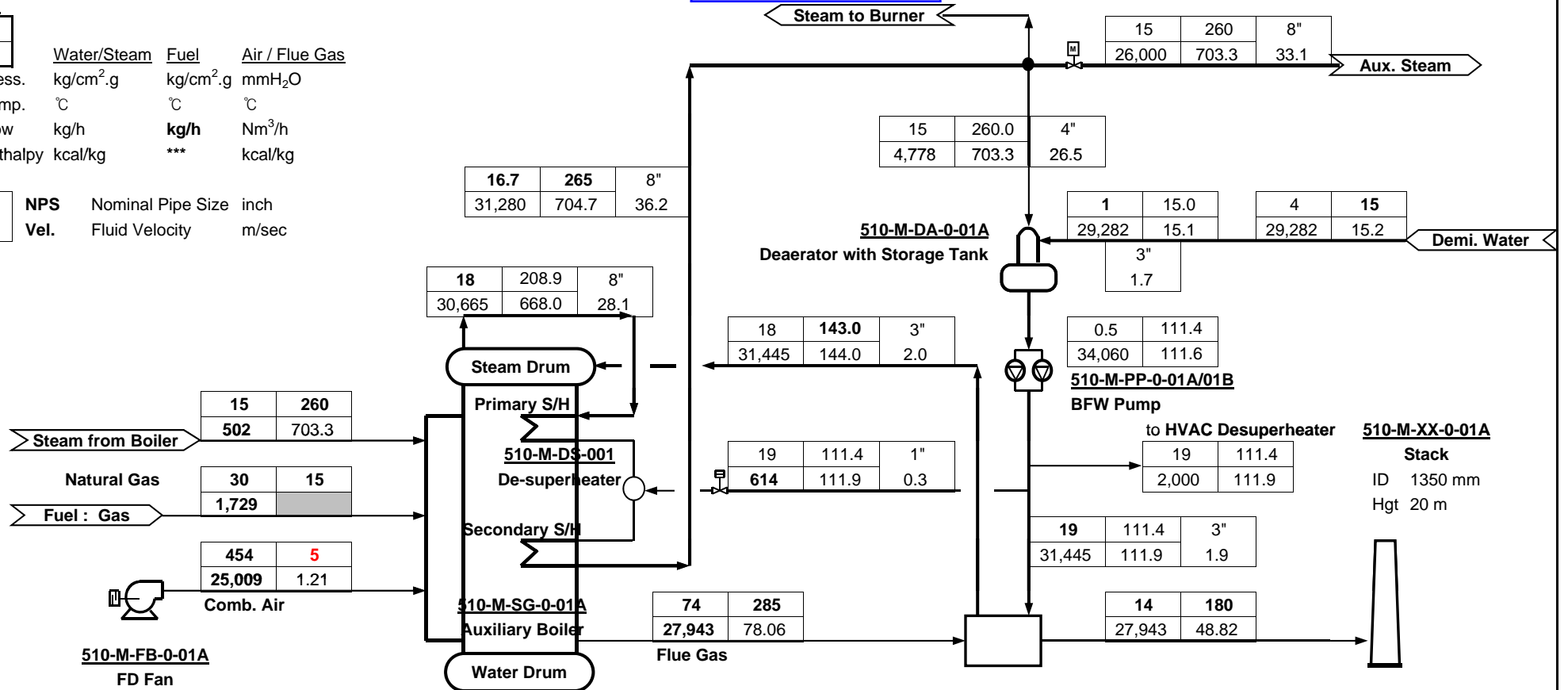
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P	Press.	kg/cm ² .g	kg/cm ² .g	mmH ₂ O
T	Temp.	°C	°C	°C
m	Flow	kg/h	kg/h	Nm ³ /h
h	Enthalpy	kcal/kg	***	kcal/kg

NPS	NPS	Nominal Pipe Size	inch
Vel.	Vel.	Fluid Velocity	m/sec



OPERATION DATA			
Boiler Capacity	26,000	kg/h	
Fuel	Natural Gas	Air Temp.	
Load	100	%	5
Steam Flowrate	26,000	kg/h	
Steam Press.	15	kg/cm ² .g	
Steam Temp.	260	°C	
Dea. Oper. Press.	0.5	kg/cm ² .g	
Feedwater Temp.	15.0	°C	
Blowdown Rate	3	%Steam Flow	

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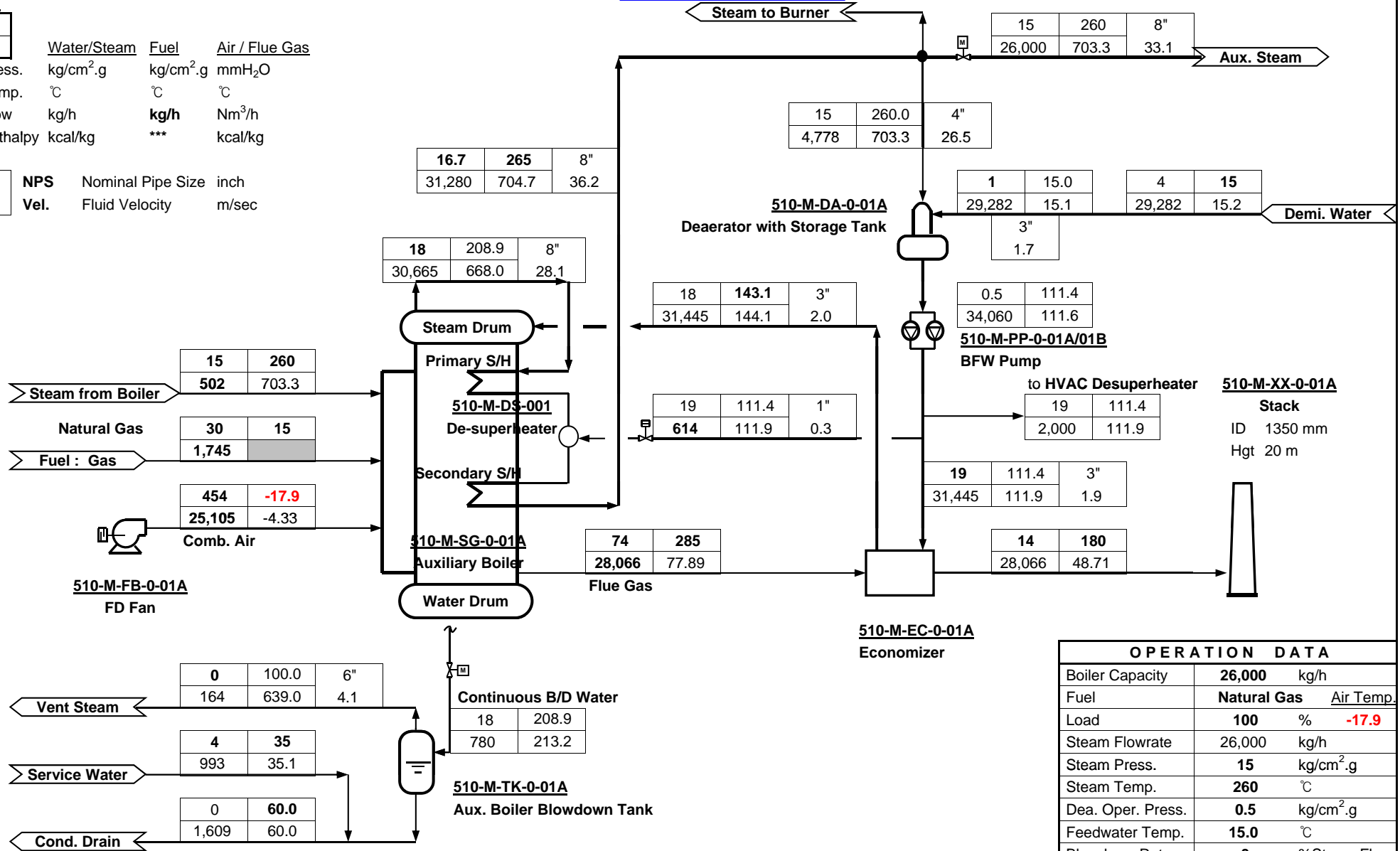
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T	Temp.	°C	°C	°C
m	Flow	kg/h	kg/h	Nm ³ /h
h	Enthalpy	kcal/kg	***	kcal/kg

NPS	NPS	Nominal Pipe Size	inch
Vel.	Vel.	Fluid Velocity	m/sec



OPERATION DATA		
Boiler Capacity	26,000	kg/h
Fuel	Natural Gas	Air Temp.
Load	100	% -17.9
Steam Flowrate	26,000	kg/h
Steam Press.	15	kg/cm ² .g
Steam Temp.	260	°C
Dea. Oper. Press.	0.5	kg/cm ² .g
Feedwater Temp.	15.0	°C
Blowdown Rate	3	%Steam Flow

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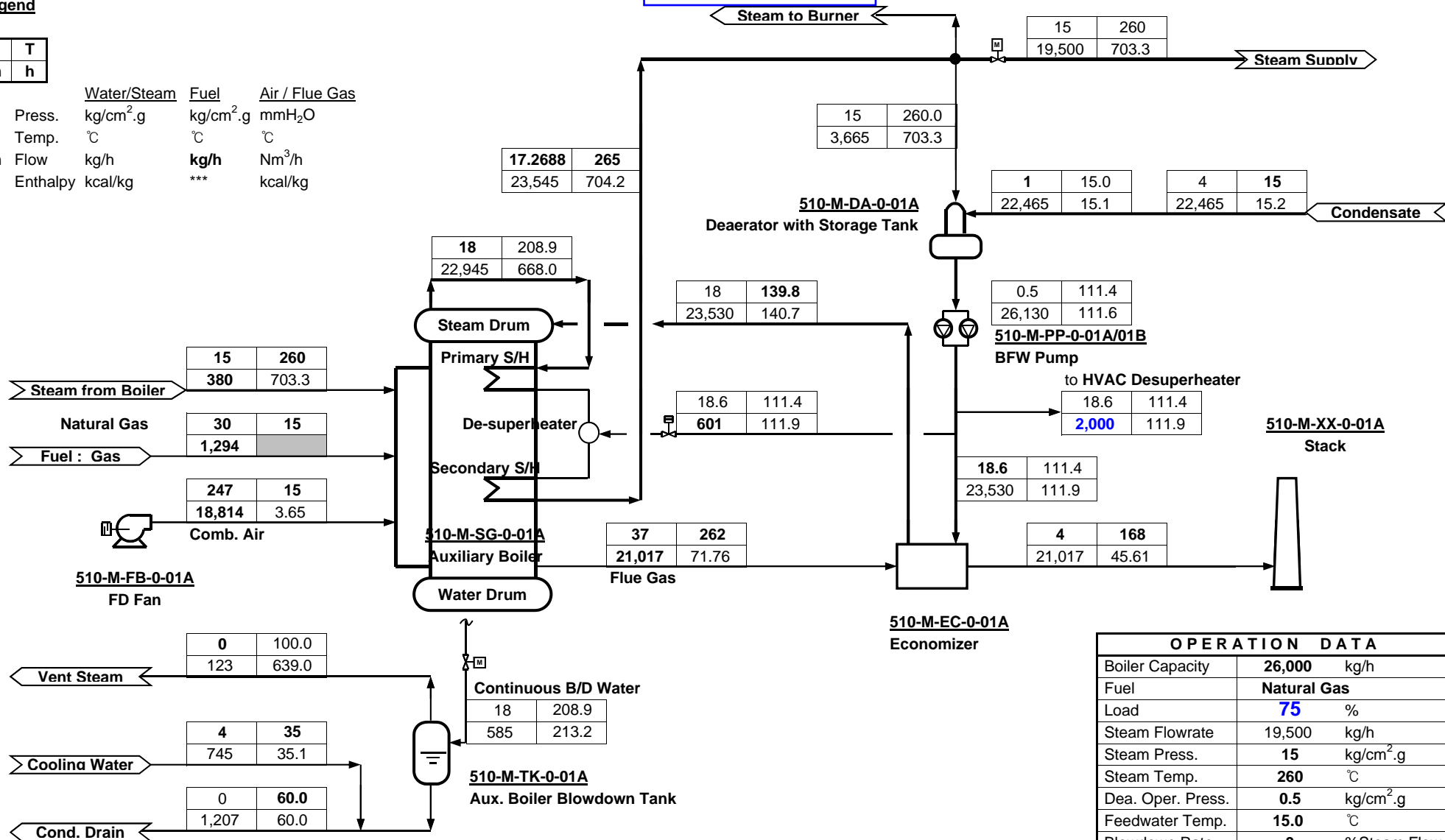
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m	h

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P	Press. kg/cm ² .g	kg/cm ² .g	mmH ₂ O
T	Temp. °C	°C	°C
m	Flow kg/h	kg/h	Nm ³ /h
h	Enthalpy kcal/kg	***	kcal/kg



OPERATION DATA	
Boiler Capacity	26,000 kg/h
Fuel	Natural Gas
Load	75 %
Steam Flowrate	19,500 kg/h
Steam Press.	15 kg/cm ² .g
Steam Temp.	260 °C
Dea. Oper. Press.	0.5 kg/cm ² .g
Feedwater Temp.	15.0 °C
Blowdown Rate	3 % Steam Flow

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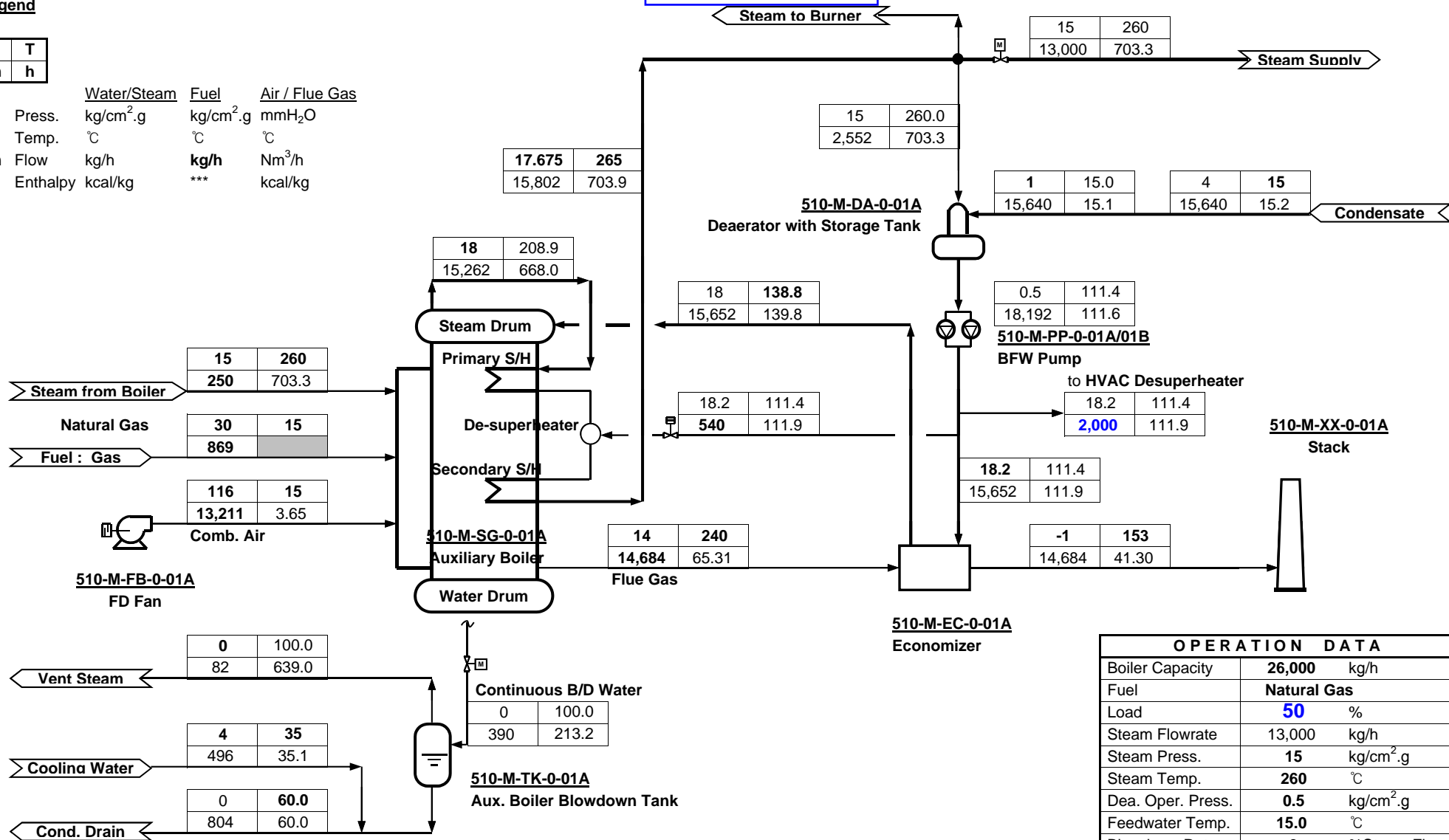
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m	h

	Water/Steam	Fuel	Air / Flue Gas
P	Press. kg/cm ² .g	kg/cm ² .g	mmH ₂ O
T	Temp. °C	°C	°C
m	Flow kg/h	kg/h	Nm ³ /h
h	Enthalpy kcal/kg	***	kcal/kg



OPERATION DATA	
Boiler Capacity	26,000 kg/h
Fuel	Natural Gas
Load	50 %
Steam Flowrate	13,000 kg/h
Steam Press.	15 kg/cm ² .g
Steam Temp.	260 °C
Dea. Oper. Press.	0.5 kg/cm ² .g
Feedwater Temp.	15.0 °C
Blowdown Rate	3 % Steam Flow