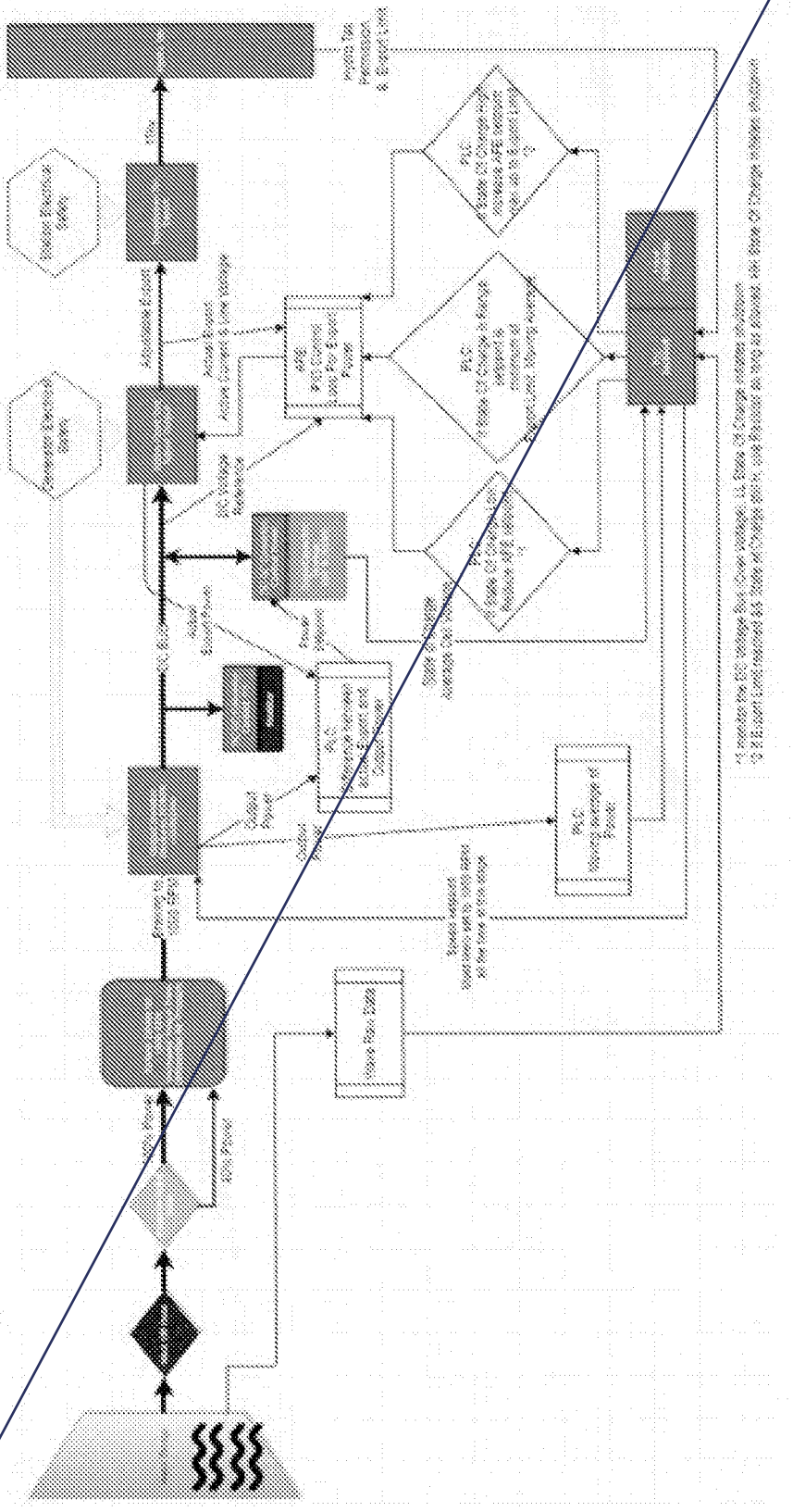


FIGURE 13

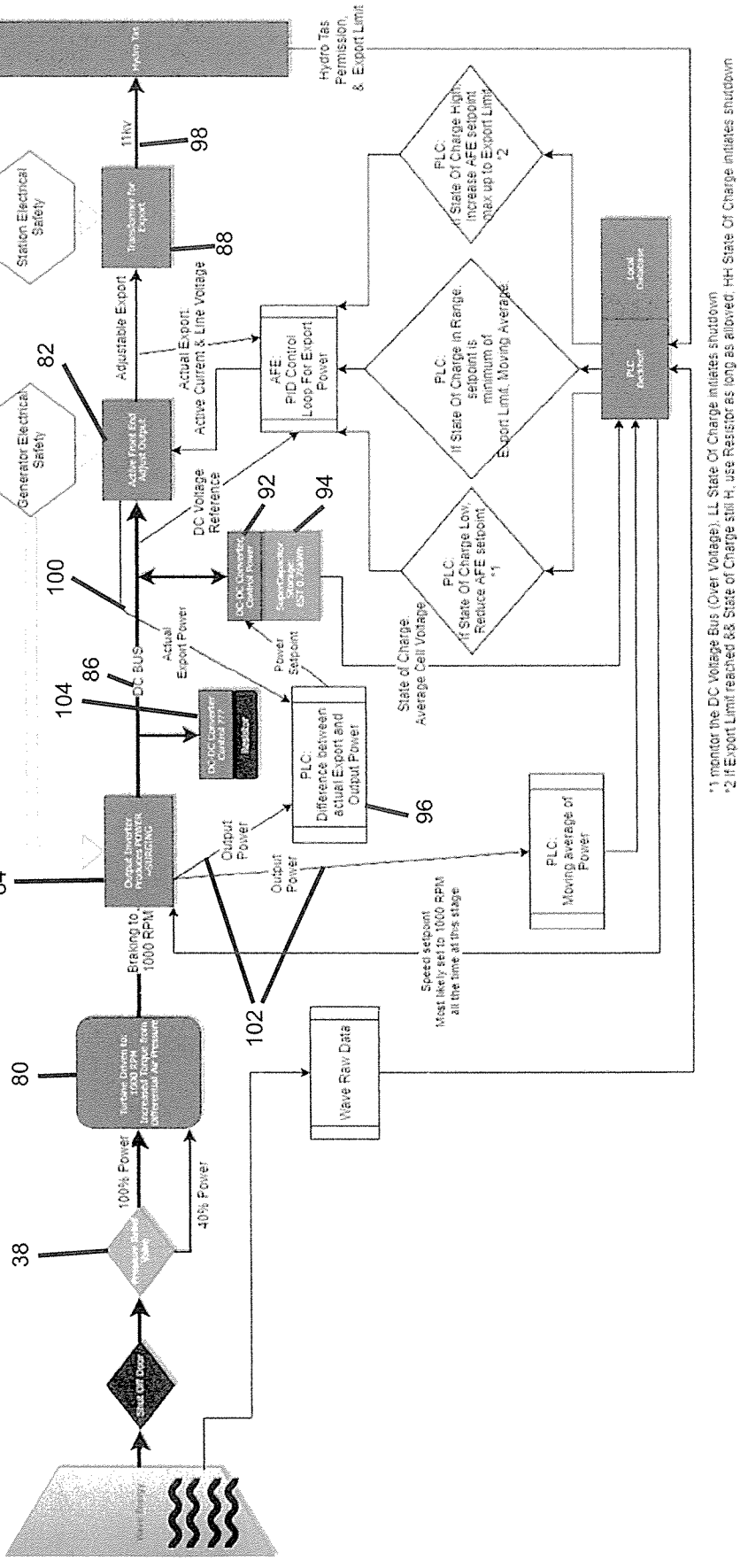

90
Hydro Tas
98
11kv
88
Station Electrical Safety
82
Generator Electrical Safety
Adjustable Export
Actual Export
Active Current & Line Voltage
AFE
PID Control Loop For Export Power
Hydro Tas Permission, & Export Limit
PLC:
If State Of Charge High, increase AFE setpoint max up to Export Limit *2
PLC:
If State Of Charge in Range, setpoint is minimum of Export Limit, Moving Average
PLC:
If State Of Charge Low, Reduce AFE setpoint *1
Local Enclosure
PLC Backplane
100
DC Voltage Reference
92
94
Actual Export Power
Power Setpoint
State of Charge: Average Cell Voltage
104
86
DC BUS
84
Output Power
PLC:
Difference between actual Export and Output Power
96
PLC:
Moving Average of Power
Braking to 1000 RPM
Speed setpoint Most likely set to 1000 RPM all the time at this stage
102
80
Wave Raw Data
100% Power
40% Power
38
*1 monitor the DC Voltage Bus (Over Voltage), LL State Of Charge initiates shutdown
*2 If Export Limit reached && State of Charge still H, use Resistor as long as allowed. HH State Of Charge initiates shutdown

FIGURE 13