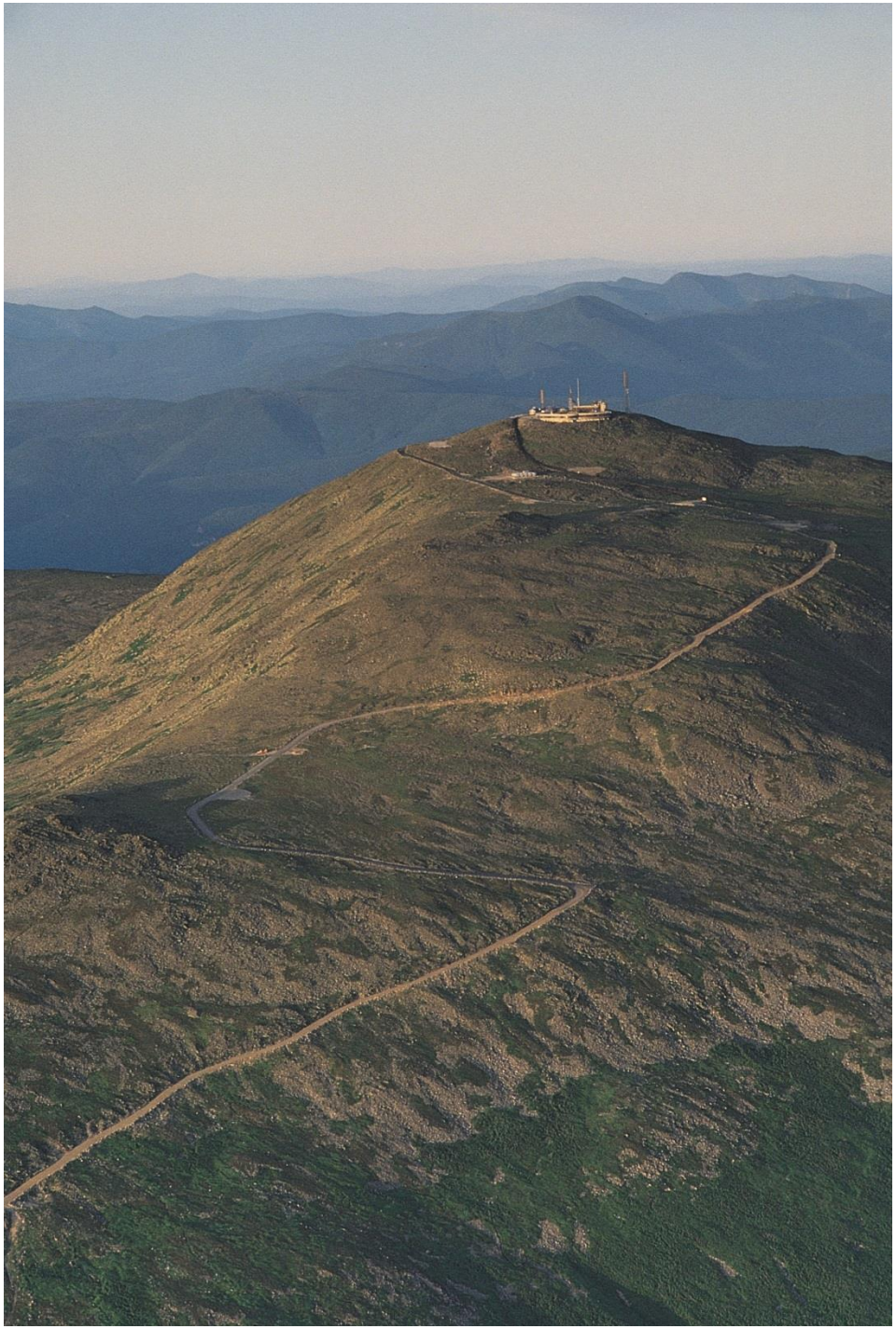
MT. WASHINGTON
AUTO ROAD



HILLIARDS NAPIER
JULY 18, 1905
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HIGGINS
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SUBARU
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Piper Printing
Rally America
Rally America
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PROFILE SUBARU
Entropy Racing
82
EVSR
FIVE STAR
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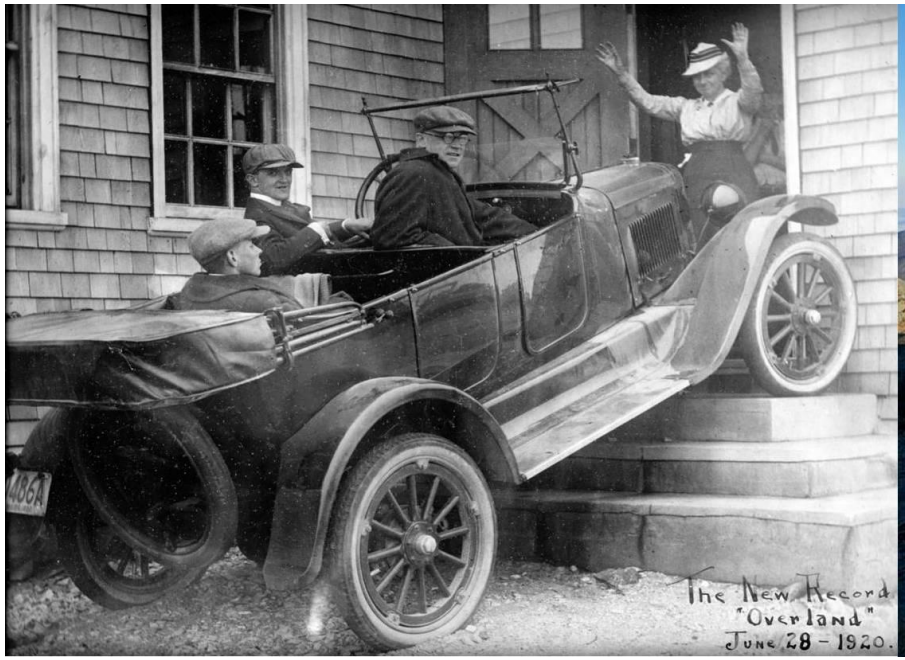
The New Record
"Overland"
June 28 - 1920.

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Your Donations

START
START
NORTHEAST DELTA DENTAL
MOUNT WASHINGTON ROAD RACE
DMSE SPORTS
MT. WASHINGTON AUTO ROAD
STAFF
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WEAR GLOVES AND SAFETY GLASSES WHILE FUELING

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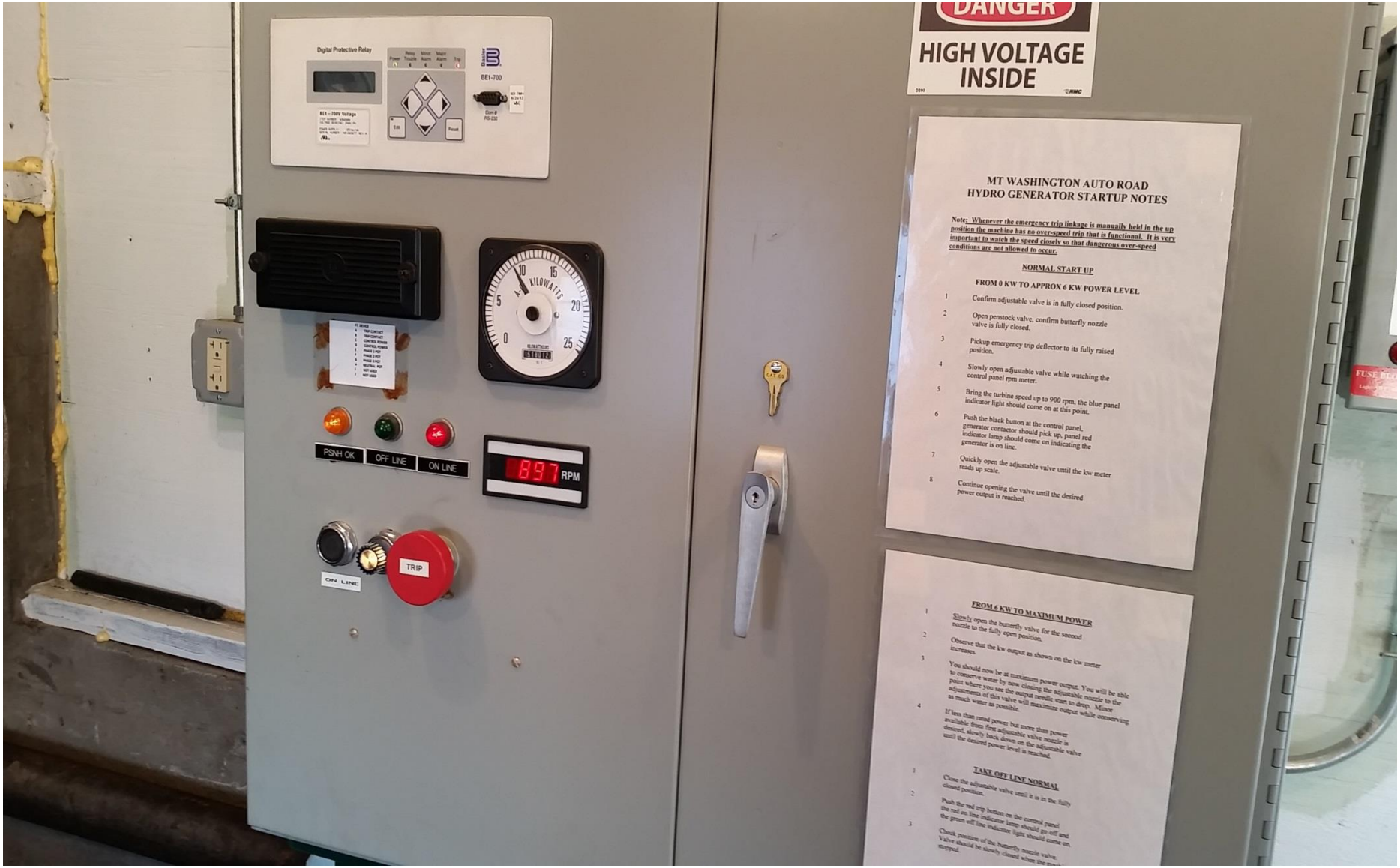
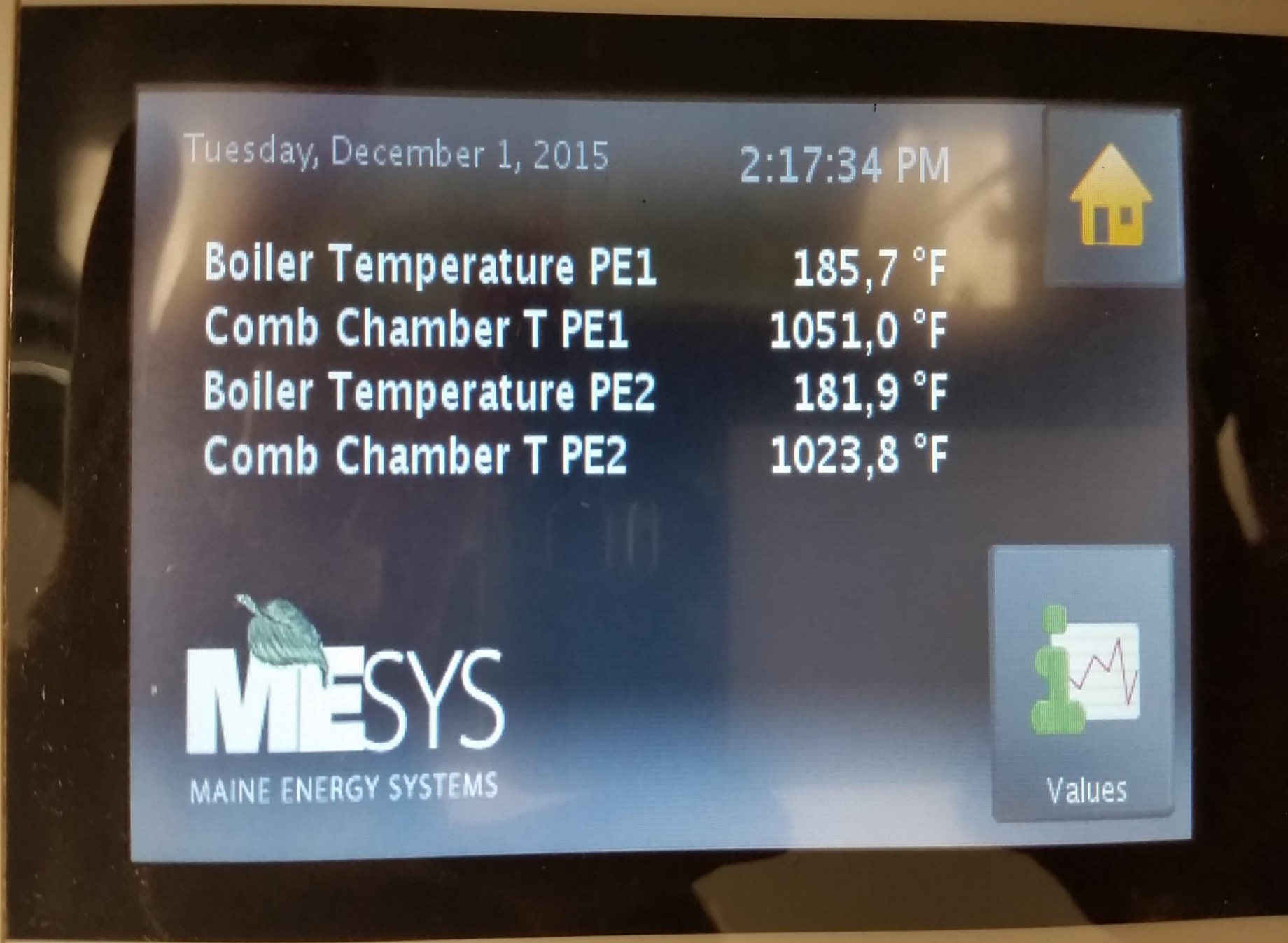
Canyon Hydro
INDUCTION GENERATOR


Digital Protective Relay
BE1-700
KILOWATTS
PSNH OK
OFF LINE
ON LINE
897 RPM
TRIP
ON LINE
DANGER
HIGH VOLTAGE
INSIDE
MT WASHINGTON AUTO ROAD
HYDRO GENERATOR STARTUP NOTES
Note: Whenever the emergency trip linkage is manually held in the up position the machine has no over-speed trip that is functional. It is very important to watch the speed closely so that dangerous over-speed conditions are not allowed to occur.
NORMAL START UP
FROM 0 KW TO APPROX 6 KW POWER LEVEL
1 Confirm adjustable valve is in fully closed position.
2 Open penstock valve, confirm butterfly nozzle valve is fully closed.
3 Pickup emergency trip deflector to its fully raised position.
4 Slowly open adjustable valve while watching the control panel rpm meter.
5 Bring the turbine speed up to 900 rpm, the blue panel indicator light should come on at this point.
6 Push the black button at the control panel, generator contactor should pick up, panel red indicator lamp should come on indicating the generator is on line.
7 Quickly open the adjustable valve until the kw meter reads up scale.
8 Continue opening the valve until the desired power output is reached.
FROM 6 KW TO MAXIMUM POWER
1 Slowly open the butterfly valve for the second nozzle to the fully open position.
2 Observe that the kw output as shown on the kw meter increases.
3 You should now be at maximum power output. You will be able to conserve water by now closing the adjustable nozzle to the point where you see the output needle start to drop. Minor adjustments of this valve will maximize output while conserving as much water as possible.
4 If less than rated power but more than power available from first adjustable valve nozzle is desired, slowly back down on the adjustable valve until the desired power level is reached.
TAKE OFF LINE NORMAL
1 Close the adjustable valve until it is in the fully closed position.
2 Push the red trip button on the control panel the red on line indicator lamp should go off and the green off line indicator light should come on.
3 Check position of the butterfly nozzle valve. Valve should be slowly closed when the
stopped.

Hydroelectric Generator
This display indicates the output, in kilowatts (KW), from the small hydro-electric turbine and generator set that has been producing electricity here at the Glen since the early 1900s. Over the years there have been many different set ups used from a direct current (DC) generator to the existing modern alternating current (AC) induction generator. In 2010 a new Pelton type turbine and induction generator supplied by Canyon Industries were installed to replace a set that had been in service since 1984. This new set generates up to 10.4 KW which is enough to satisfy the electricity needs of this lodge on a year round basis.
Hydropower is very efficient, capable of converting 90% of available energy into electricity. It's clean, renewable and domestic.
10.96

MESYS
MESYS


Tuesday, December 1, 2015
2:17:34 PM
Boiler Temperature PE1
185,7 °F
Comb Chamber T PE1
1051,0 °F
Boiler Temperature PE2
181,9 °F
Comb Chamber T PE2
1023,8 °F
MESYS
MAINE ENERGY SYSTEMS
Values

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