

NORAD – Cheyenne Mountain Air Force Station

MPTS Performance Validation

Power monitoring Base line without MPTS

Power analyzer model C.A. 394, Serial number 200671 1:1

Trend monitoring for Air Compressor CO1

Monitoring Start and End:

Date: 11/26/2014, 10:42:00 AM to 01/12/2014, 10:42:00AM

Voltage 480V	Phase Volts
Without MPTS	278
with MPTS	279

Current	Amps
Without MPTS	124.3
with MPTS	36.5
Decrease in Current	87.7

Power Factor	Power Factor
Without MPTS	0.298
With MPTS	0.811

Carbon Emissions	CO2 - lbs
Without MPTS	97,240
With MPTS	28,985
Decrease in CO2	68,255

Power monitoring with MPTS

Power analyzer model C.A. 394, Serial number 200671 1:1

Trend monitoring for Air Compressor CO1

Monitoring Start and End: Date:

3/31/2015, 08:26:00AM to 4/4/2015, 08:26:00AM

Electrical Demand	KVA Electrical Demand
Without MPTS	104
with MPTS	31
Peak KW decrease	73

Load Kilowatts	Load Kilowatts
Without MPTS	35
with MPTS	25
Load KW decrease	10

KVAR	Reactive Power KVAR
Without MPTS	95
with MPTS	13
KVAR decrease	83

Carbon Emissions	Carbon % (CO2)
Without MPTS	100%
With MPTS	30%
Decrease in CO2	70%