



**HOLIDAY RESORT USES SYSTEM PERFORMANCE SUMMATION FROM RECORDINGS DATED
SEPTEMBER 3, 2015**

DM II Pro Data Logger recorded graphs Timed Interval Samplings (TIS) results on September 3, 2015 with (9) XL-480 volt USES unit in operation at 12:05 PM to 12:35 PM (See individual graphs calculations for averages)

<u>GRAPH TITLE</u>	<u>USES OFF (per averaged calcs)</u>	<u>USES ON (per averaged calcs)</u>	<u>Change/Savings</u>
REAL POWER (Watts)	616,500	603,100	- 13,400 W (13.4 KW)
APPARENT POWER (KVA)	697,000	613,400	- 83,600 VA (83.6 KVA)
CURRENT (Amps per phase)	844.6	736.5	- 108.1 Amps per phase
REACTIVE POWER (KVAR)	325,000	111,000	- 213,900 VAR (213.9 KVAR)
VOLTAGE (Volts)	275.9	278.4	+ 2.5 Volts
TRUE POWER FACTOR	0.885	0.984	+ 9.9 Points

SAVINGS CALCULATIONS PER PROPOSAL FORMULA

HOLIDAY RESORT REDUCTIONS

KW	13.4 / 2	=	6.70
KVA	83.6 / 2	=	<u>41.80</u>
TOTAL		=	48.50 kWh

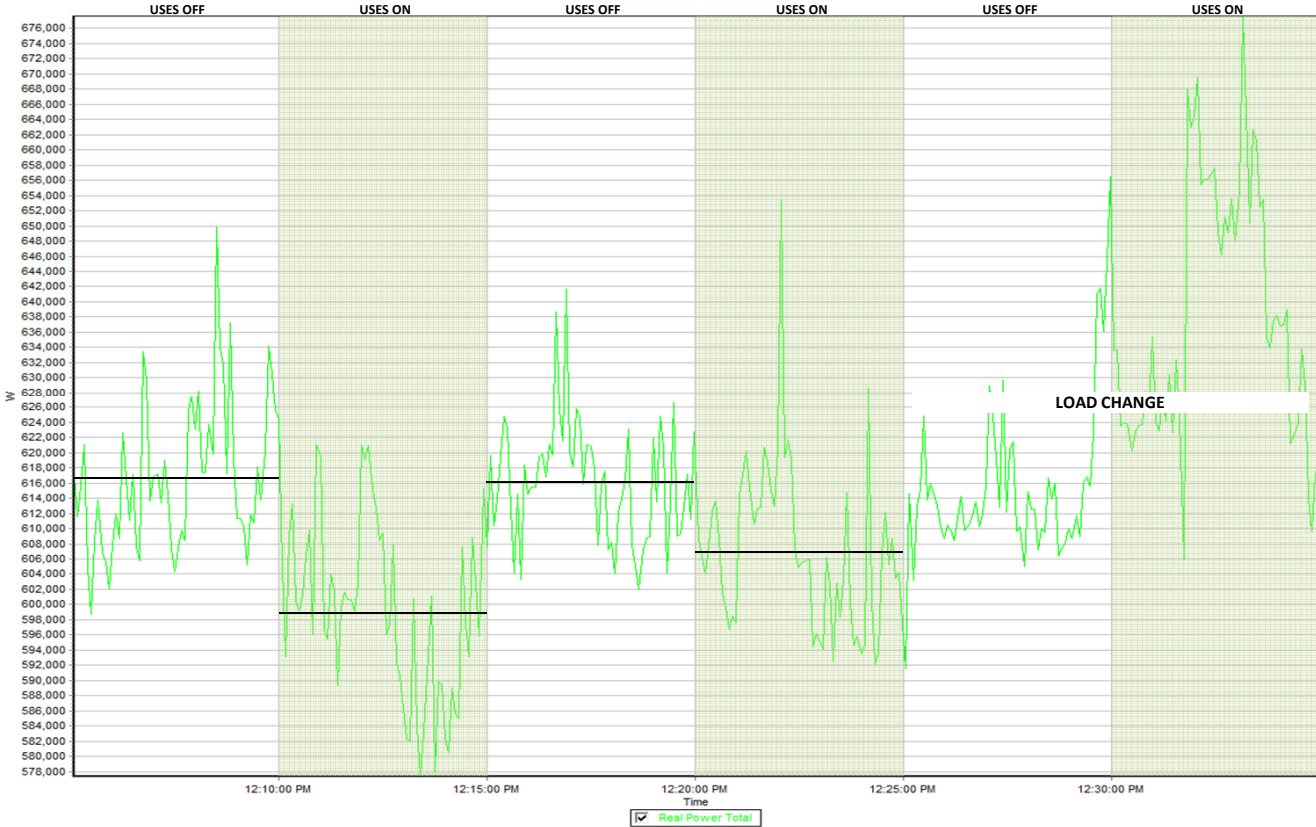
48.50 kWh x 24 hours x 30 days (Constant load) = 34,920 kWh per month
 TOTAL 34,920 kWh per month X \$0.28 per kWh = \$9,777.60 monthly savings.

Additional savings from reduced maintenance, extended motor life and all electronics protection from voltage stabilization, phase balancing, harmonic current reduction and surge, spike, lightning protection will also be substantial yet incalculable.

*All above is based on the loads and operation hours per day per above information. All reductions are based on the total number of USES units in operation X number of hours each USES unit is operating.

HOLIDAY RESORT REAL POWER (KW) SEPT 3, 2015

9/3/2015 12:05:04 PM - 9/3/2015 12:35:04 PM



DIFFERENCE AVERAGING:

USES OFF	616.8	616.2	1,233.0 /2	616.5
USES ON	599.2	607.0	1,206.3 /2	603.1
TOTALS	-17.6	-9.2	-26.7 /2	-13.4 KW AVERAGE REDUCTION

ALL ABOVE DATA IS FROM OPERATION OF (1) XL-480Y UNIT AND (8) XL-480D UNITS AT A PEAK LOAD EVENT
12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD

HOLIDAY RESORT APPARENT POWER (KVA) SEPT 3, 2015

9/3/2015 12:05:04 PM - 9/3/2015 12:35:04 PM



Apparent Power Total

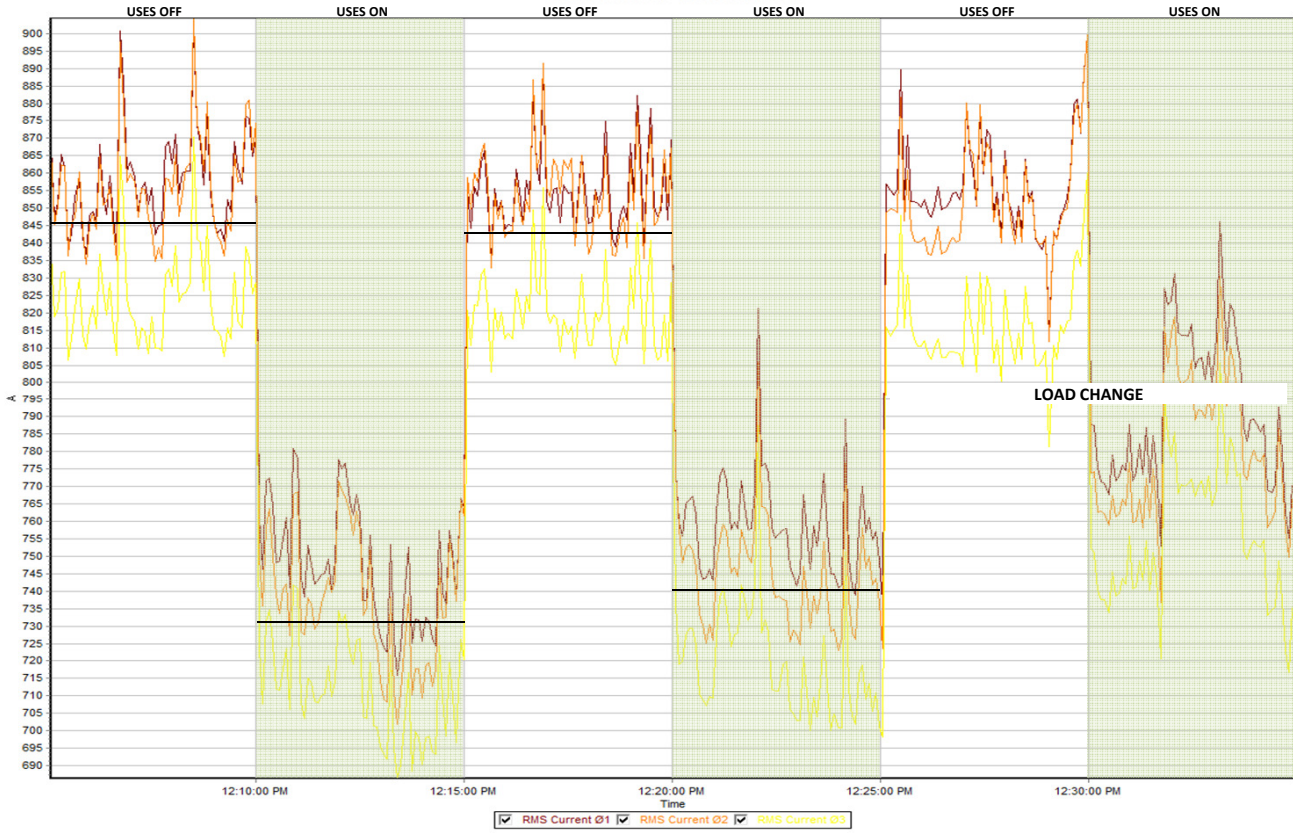
DIFFERENCE AVERAGING:

USES OFF	698.1	695.9	1,394.0 /2	697.0
USES ON	609.9	617.0	1,226.9 /2	613.4
TOTALS	-88.2	-78.9	-167.1 /2	-83.6 KVA AVERAGE REDUCTION

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 12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD

HOLIDAY RESORT CURRENT (AMPS) SEPT 3, 2015

9/3/2015 12:05:04 PM - 9/3/2015 12:35:04 PM

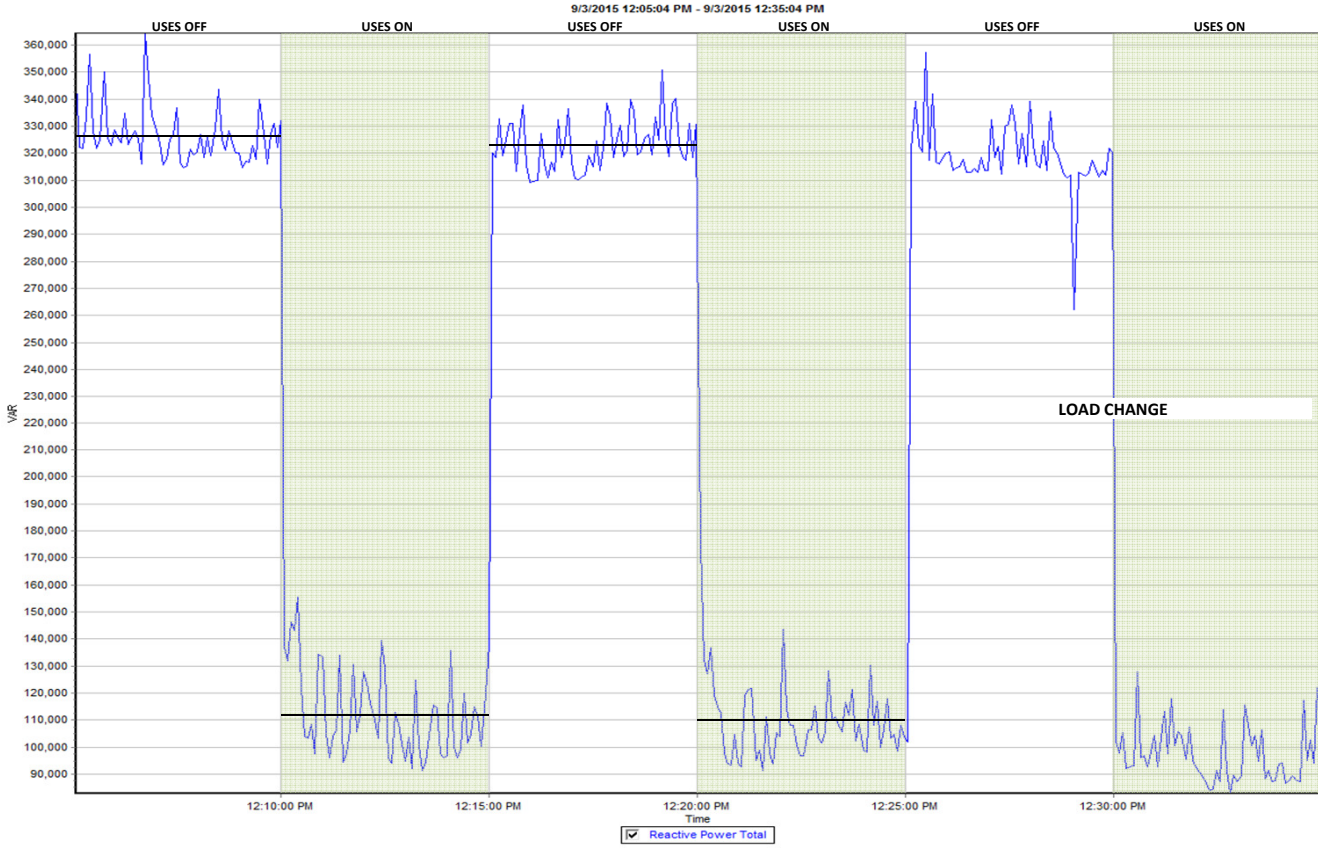


DIFFERENCE AVERAGING:

USES OFF	846.0	843.2	1,689.2 /2	844.6
USES ON	732.0	740.9	1,472.9 /2	736.5
TOTALS	-114.0	-102.3	-216.3 /2	-108.1 AMPS AVERAGE REDUCTION

ALL ABOVE DATA IS FROM OPERATION OF (1) XL-480Y UNIT AND (8) XL-480D UNITS AT A PEAK LOAD EVENT
 12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD

HOLIDAY RESORT REACTIVE POWER (KVAR) SEPT 3, 2015



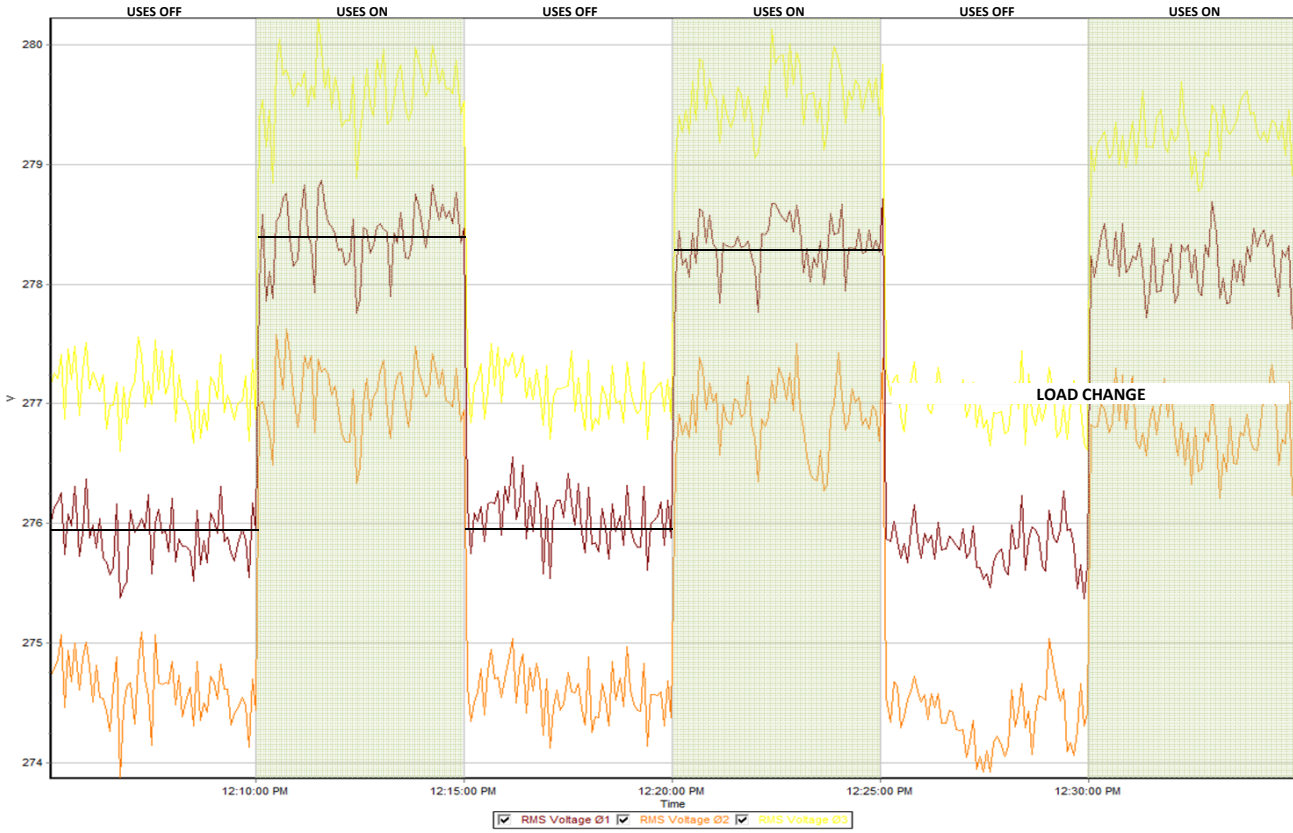
DIFFERENCE AVERAGING:

USES OFF	326.7	323.3	650.0 /2	325.0
USES ON	112.4	109.7	222.1 /2	111.0
TOTALS	-214.3	-213.6	-427.9 /2	-213.9 KVAR AVERAGE REDUCTION

ALL ABOVE DATA IS FROM OPERATION OF (1) XL-480Y UNIT AND (8) XL-480D UNITS AT A PEAK LOAD EVENT
 12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD

HOLIDAY RESORT VOLTAGE SEPT 3, 2015

9/3/2015 12:05:04 PM - 9/3/2015 12:35:04 PM



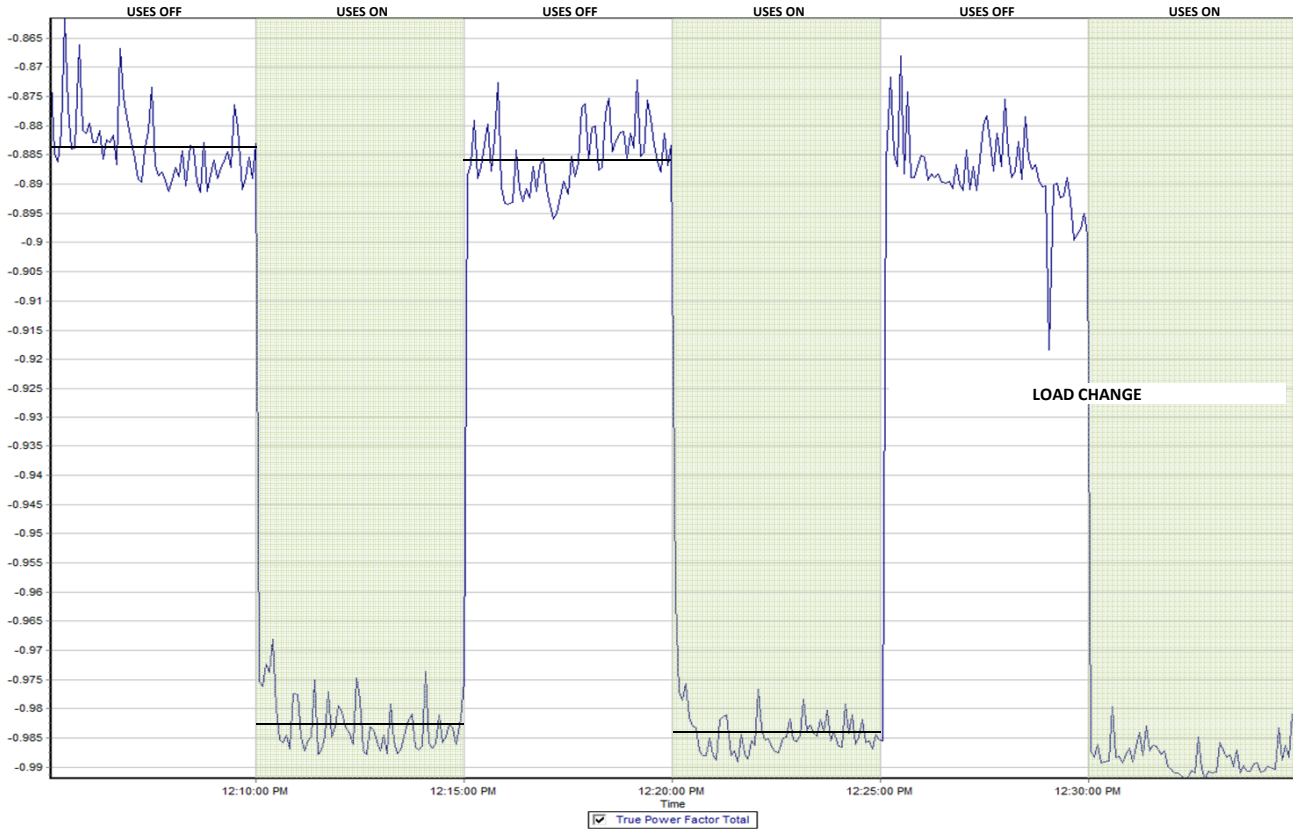
DIFFERENCE AVERAGING:

USES OFF	275.9	275.9	551.8 /2	275.9
USES ON	278.4	278.3	556.7 /2	278.4
TOTALS	2.5	2.4	4.9 /2	2.5 VOLTS AVERAGE INCREASE

ALL ABOVE DATA IS FROM OPERATION OF (1) XL-480Y UNIT AND (8) XL-480D UNITS AT A PEAK LOAD EVENT
 12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD

HOLIDAY RESORT TRUE POWER FACTOR SEPT 3, 2015

9/3/2015 12:05:04 PM - 9/3/2015 12:35:04 PM



True Power Factor Total

DIFFERENCE AVERAGING:

USES OFF	0.884	0.886	1.77 /2	0.885
USES ON	0.983	0.984	1.97 /2	0.984
TOTALS	9.9	9.9	19.8 /2	9.9 POINTS AVERAGE INCREASE

ALL ABOVE DATA IS FROM OPERATION OF (1) XL-480Y UNIT AND (8) XL-480D UNITS AT A PEAK LOAD EVENT
12:25 TO 12:35 DATA WAS NOT USED IN THE ABOVE AVERAGING DUE TO AN INCREASE IN LOAD