Energy Survey Sample

Presented By: Shannon Enterprises Contact:

Survey Date: 9/22/2015

Proposal Date:

Phone / Email: (716)693-7954 Project Name: Sample Steam System Fuel Cost (\$/mmBTU): \$9.60

Steam Cost: \$12.80 **Product Specification:** (M) LT450TT

Inches

Project Contact:

Insulation Thickness: 1.5

Phone / Email: Shannon Proj. #: 2535

Fastener Type: (M) Velcro Flans / Wireh

Snannon Proj. #: 2555				rastener Type: (M) Veicro Flaps / Wiretwists					
ΣΤΥ	Description / Location	Amb. Temp	Meas. Surface Temp	Oper- ating Hours	Bare Heat Loss (BTU/Hr)	Bare Oper. Cost (\$/Year)	Insulated Heat Loss (BTU/Yr)	Insulated Oper. Cost (\$/Year)	
Main I	Boiler Room								
3	Valve,Gate,150#	90	360	8760	23,916.06	\$2,681.66	18,439,324	\$236.02	
3	6" 300# Stop Check Valve	90	360	8760	39,463.20	\$4,424.93	30,426,196	\$389.46	
6	44" Dia. Steam Drum (6"-10"	90	345	8760	108,201.60	\$12,132.43	93,449,607	\$1,196.15	
6	44" Dia. Mud Drum (6"-10" Deep)	90	330	8760	101,836.80	\$11,418.76	87,952,571	\$1,125.79	
Steam	Header								
6	Valve,Gate,150#	90	350	8760	23,362.56	\$2,619.60	20,177,355	\$258.27	
4	Valve,Globe,150#	90	350	8760	15,575.04	\$1,746.40	13,451,570	\$172.18	
2	Flange, 150#	90	345	8760	10,874.53	\$1,219.34	9,391,920	\$120.22	
Steam	Tunnel								
6	Exp. Joint, Single,	90	342	5834	22,837.25	\$1,705.38	13,135,599	\$168.14	
4	Valve,Gate,150#	90	342	5834	18,321.41	\$1,368.15	10,538,164	\$134.89	
3	Blind Flange Cap,300#	90	338	5834	7,928.06	\$592.03	4,560,088	\$58.37	
PRV S	tation to DeAerator								
1	Strainer,150#	110	325	8760	3,219.84	\$361.03	2,780,853	\$35.59	
1	Pressure Reducing Valve, 150#	110	325	8760	6,123.20	\$686.58	5,288,375	\$67.69	
1	Valve,Globe,150#	110	315	8760	3,070.08	\$344.24	2,651,511	\$33.94	
1	Flange, 150#	110	315	8760	2,784.90	\$312.27	2,405,213	\$30.79	
1	Valve,Gate,150#	110	315	8760	3,070.08	\$344.24	2,651,511	\$33.94	

Heatloss Calculation

Q = Heatloss (BTU / Hr. / SF)
K = Bare Surface Thermal Conductivity (K = 26.9)

ΔT = Surface Temp - Ambient Temp
L = Insulation Thickness

E = Insulated Surface Thermal Conductivity (K = 0.525 @ 300 F)

Ht = Combined Coefficients (Ht = 3.2 @ 300 F)

(Radiation, Convection & Conduction)

2960.59	Emissions Savines #2 #6 Past Oil (mm.BTV);	2860,59	Iminsiona Sevicea #2 Internal San Crem STU2
264.43	CO2 (Tons)	444.21	CO2 (Tons)
1163.55	NOx (lbs)	444,21	NOx (lbs)
	N2O (lbs)	6.42	N2O (lbs)
3318.72	SO2 (lbs)	1.66	SO2 (lbs)
211.40	PM10 (lbs)	5.47	PM10 (lbs)
34.01	VOC (lbs)	15.93	VOC (lbs)
105.82	CO (lba)	71.10	CO (lbs)
n 0.05 Lbs)	* (Amount is less than		

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Energy	Surv	ev Su	mmary

3,277,893,469.42 317,299,858.47 2,960,593,610.95
\$41,957.04
\$4,061.44
\$37,895.60
\$537,402.96
\$26,231.01
\$4,800.00
\$31,031.01
10
48

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