Hexcel Corporation - Objectives and Targets Project Plan

Year: 2012 **Project Plan Number:** 2012 – 03

Narrative of Objective and Target: ***Energy Conservation Projects.***

Evaluate and complete the following energy conservation projects:

Electrical

1. New Prepreg Building and Equipment
2. Fiber Lines 13 and 14
3. Various Lighting Projects
4. Air Compressor Upgrade
5. Commission Fiber Line 11 and 12

Steam

1. Install new GEM steam traps

Estimated electrical savings will be documented once evaluations have been completed. The benefit is greatly reduced electrical and steam consumption that equates to reduced carbon footprint, air emissions, water discharges as well as significant cost savings.

Assigned To: Site Management Team – Derrick Blackburn (Prepreg Building and Air Compressor), Derrick Blackburn,Jerry Lusk (Lighting Projects), Shannon Storrud assigned team leader (Fiber Lines 13 and 14 & Fiber Lines 11 and 12). James Dunn (steam traps)

Due Date: Quarterly tracking of results

Quarter 1 Results: **% Complete: 25**

Prepreg Building – Energy Analysis Report completed and agreement signed by Hexcel and Rocky Mountain Power

Fibers Line 13 and 14 – Energy Analysis in progress along with general design.

Lighting Projects – Several areas have been evaluated, in process of signing agreements.

Commission Fiber Lines 11 and 12 – all agreements in place, equipment verification Q2

Air Compressor Upgrade – Under evaluation

Steam Traps – Survey completed, proposal and cost/savings report in place. Proposal has been designated a project and assigned to James Dunn – Maintenance Manager. (see attached steam savings report)

Quarter 2 Results: **% Complete: 50**

Prepreg Building -

Fibers Lines 13 and 14 - Energy Analysis still in progress along with general design.

Lighting Projects – One agreement has been signed, the other being evaluated and in process of signing agreements.

Fiber Lines 11 and 12 – Meetings held to determine completion of items in agreement – Oven VFDs not used per agreement.

Air Compressor Upgrade – Cost/Benefit under review

Steam Traps – Evaluating trial – up to 10 traps to be installed for evaluation

Quarter 3 Results: **% Complete: 75**

Prepreg Building - Installation proceeding

Fibers Lines 13 and 14 - Energy Analysis still in progress along with detailed design.

Lighting Projects – Line 11 and 12 lighting project completed. General lighting project agreement has been signed.

Fiber Lines 11 and 12 – Final review completed, all items installed except oven VFDs and premium motors. Project will not undergo formal commissioning.

Air Compressor Upgrade –

Steam Traps – Evaluating trial – Sites for 7 traps selected, project funded for trial install.

Quarter 4 Results: **% Complete: 100**

Prepreg Building – High Efficiency HVAC systems installed over offices (Estimated savings), VFD air handlers, boilers, chillers and fume hoods installed (Estimated savings -), T5 lighting installed throughout production area (savings -). Incentive -
Fibers Lines 13 and 14 – Energy FinAnswer Incentive Agreement signed. Estimated savings 2,239,300 KWH, estimated incentive $197,062
Lighting Projects – Line 11 and 12 lighting project completed. General lighting project agreement has been signed.
Fiber Lines 11 and 12 – Process electrical savings of 931,600 KWH, incentive check received for $112,800. Lighting electrical savings of 108,644 KWH, incentive check received for $11,250. Total 1,040,244 KWH, $124,050.
Air Compressor Upgrade – Project discontinued due to cost/benefit
Steam Traps – 6 GEM steam traps installed in September 2012. Traps working as designed. Full plant project slated for 2013. Estimated steam savings for the 6 installed traps – 485 tons/year, maintenance and energy - $17,157/year. Payback 5.3 months

YTD Total - Electrical Usage Savings – 1,040,244 KWH, Yearly Cost Savings of approximately $75,000. DSM Cash Back from RMP - $124,050

Equivalent Emission Savings	*Pulverized coal power plant = 75% of generation in Utah*					**Direct Savings**
Total KWH Usage	**CO2 lbs**	**NOx lbs**	**PM lbs**	**SO2 lbs**	**VOC lbs**	**Utility Cost**
						$75,000
1040244	1,469,374	672	294	965		

Environmental Engineer Signature_____ **Date:** _____