



Mpower Major Project Worksheet

Updated 11/2/09 - Version 1.1

Project Name		Heat recover make up air system	
Project Manager		Phil Bernhardt	
Action topic		<i>Improve Energy Efficiency</i>	
Project Description			
Install an air to air heat exchanger inline with the print presses thermal oxidizer. This unit will take the heat from the exhausting air and heat up the 100% makeup air being put into the building.			
Business Case / Statement of Need			
The system is a 100% outside air with the capacity of heating up to 20,000 cfm with no additional energy sources needed. By adding this system we will be able to gain positive building pressure and increase our overall heating efficiency by pushing out cold air at truck docks, walk in doors, and building seams. This system will eliminate five natural gas fired ceil units and reduce the 30,000 cfm natural variable speed make up unit by 30%.			
Project Definition			
Project Goals	Create a positive building pressure. Increase the amount of times that air is turned over inside the building.		
How will progress be measured?	One quick and easy way: is when the walk-in doors do not close immediately behind you. There is a number of static pressure meters locate throughout the building which collect data frequently and will show our progress.		
Expected environmental benefits	Using the heat from the exhausting air of thermal oxidizer we will save 33,667 therms of natural gas or 395,920 lbs of CO ₂ annually.	Quick Conversion Factors	
		<ul style="list-style-type: none"> • 2.22 lbs CO₂ / kWh saved • 11.76 lbs CO₂ / therm saved • 4.4 lbs CO₂/ 1000 gallons water • 19.56 lbs CO₂ / gallon of gas saved 	
Project Constraints / Risks / Key Inputs <i>(Elements that may restrict or place control over a project, project team, or project action; results from other projects or input from other sources needed for project to be successful)</i>			
This project has a high up front cost and there are some complicated engineering calculations that needed done to assure there is enough heat to maintain comfortable temperatures on the coldest of winter days.			
Implementation Plan <i>(Due dates and durations)</i>			
The project received the green light on September 17 th and installation plans are under way. The third week in November Webcrafters be completely shut down, so the system will be tied in and fully operation that week.			
Communication Plan <i>(What needs to be communicated? When is communication needed? To whom? How?)</i>			
Prior to the start of the project, there will be an announcement posted in the Westport plant informing them of the pending installation of the system and times things will be taking place. The installation will disrupt the materials handling employees the most, so there will be some preplanning done with those employees.			
Change Management / Issue Management <i>(What is process for addressing concerns of those impacted? How decisions will be made? How changes will be made?)</i>			
The addition make air will address past concerns of air quality and cold spots in the building, so we will be open for feedback once the system is in operation.			
Project Team Roles and Responsibilities			
Team Members	Roles	Responsibilities	
Phil Bernhardt	Project coordinator	Primary communication source	
Dale Ripp	Sustainability recorder	Oversee and promote the sustainability positive aspects	
Les Falkenberg	HVAC specialist	Assist in the installation	
Al Statz	Electrical Engineer	Assist in the installation	