Annual Report

For the period of January 1, 2013 through December 31, 2013

JM Flash Technologies, LLC

Facility Name

1550 East 3400 North

Lehi 84043

Facility Street Address City Zip

Project Status

On a separate sheet, summarize:
- your Clean Utah project commitments and accomplishments made to date,
- major indicators of environmental improvements (measurable ways that you are determining the environment is improving as the result of steps you are taking),
- public participation activities you have undertaken, and
- your project plans for next year, as they relate to this program.

Certification Statement

(to be signed by the senior facility manager)

I certify that to the best of my knowledge the information outlined in the attached annual report is correct and that this facility continues to meet all program criteria and has an active EMS, as defined by the Clean Utah program. I further certify that this facility has conducted periodic assessments of compliance with legal requirements, has corrected all identified instances of noncompliance, and is currently in material compliance with all applicable federal, state, and local environmental rules and regulations.

Signed

January 31, 2014

Date

Brad Mortensen

Print Name

Facilities Manager

Title
Projects Proposed for Calendar Year 2014

Project #1 - Improve Waste Water Treatment System

IM Flash Technologies, LLC (IM Flash) is committed to waste minimization and identifying opportunities to reduce, reuse, or recycle chemicals used in the manufacturing process. IM Flash generates waste water containing residual copper and nickel and it is treated using ion-exchange technology.

Commitment: Install and operate a metals reclaim system in a waste water stream to enhance copper and nickel removal and generate a useful product. This project is consistent with IM Flash’s commitment to conserve natural resources and minimize waste.

Accomplishments: IM Flash is pleased to announce that the installation of the new waste water treatment system is complete and became operational January 2014. Due to the unique chemistry required for reclaiming multiple metals, the design and construction of this new treatment system took longer than expected.

Indicators: During 2014, IM Flash will track impacts this project has on waste generation and waste disposal costs. This project should significantly reduce or eliminate the ion-exchange resin hazardous waste stream that is accumulated for off-site disposal. The metals reclaim system will generate copper and nickel metal that may be recycled.
Project #2 – Energy Efficient Light Replacement

IM Flash Technologies, LLC (IM Flash) manufactures semiconductor products and operates continuously every day of the year. The facility is relatively large and ambient lighting is required for workspaces and employee safety. Technological advances in lighting options have provided opportunities for IM Flash to replace existing light fixtures with new energy efficient light fixtures.

Commitment: Continue energy efficiency efforts by replacing an additional 450 existing light fixtures with new energy efficient light fixtures. This project is consistent with IM Flash’s commitment to conserve natural resources and reduce environmental impacts associated with our operations.

Accomplishments: To Be Determined

Indicators: This project will result in a cost savings to the company through energy savings, reduced maintenance labor for lamp replacement, and reduced disposal costs in the future. This project will also reduce indirect emissions associated with the purchase of electrical energy.

Energy use for lighting is a small fraction of the facility’s overall energy consumption. For this reason, it is unlikely that the savings from this project can be measured through the evaluation of monthly utility bills. Energy savings from the implementation of this project will be based on published specifications for the light fixtures and the number of fixtures replaced.
Projects Completed Calendar Year 2013

#1 – Improve Boiler Efficiency

IM Flash Technologies, LLC (IM Flash) operates natural gas-fired boilers to generate steam for humidification, process and comfort heating. Natural gas combustion is a relatively clean burning fuel. However, IM Flash identified an opportunity to improve the efficiency of the steam generation process through the installation of an economizer on the exhaust stack of a new boiler.

**Commitment:** Install an economizer and operate the system during calendar year 2013.

**Accomplishments:** IM Flash installed an economizer (heat exchanger) on a new boiler that began operation December 2012. Boiler parameters were monitored and recorded throughout calendar year 2013. Based on actual measurements, installation and operation of the economizer reduced the annual natural gas fuel consumption by approximately 1,895 mmBtu. This represents an annual cost savings of approximately $6,600.

EPA’s Pollution Prevention Program GHG Calculator was used to estimate the reduction of greenhouse gas emissions associated with this fuel savings. Approximately 100 MT CO2e emissions were prevented from the operation the economizer during calendar year 2013. It should be noted that the boiler was operated at a capacity factor or 41%. Operation at a higher capacity factor would lead to greater savings and additional reductions in GHG emissions.

It was anticipated that this project would reduce the quantity of fuel combusted to generate steam. Implementation of this project resulted in a 2% reduction in fuel consumption required for the operation of the boiler. IM Flash will continue to benefit from this efficiency improvement in the future.