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Utah Department of Environmental Quality
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1-800-458-0145

Annual Report

For the period of January 1, 2014 through December 31, 2014

IM Flash Technologies, LLC

Facility Name

4000 North Flash Drive
Facility Street Address

Lehi
City

84043
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 29, 2015

Date

Brad Mortensen

Print Name

Director - Facilities

Title

REVIEWED
IMF LEGAL

Project #1 - Carpet Replacement

IM Flash Technologies, LLC (IM Flash) is conducting a carpet replacement project. Office area carpet is worn and is ready for replacement.

Commitment: Partner with carpet supplier to recycle old carpet. Recycled carpet will divert solid waste from the landfill.

Accomplishments: To Be Determined

Indicators: During 2015, IM Flash will track the replacement of office carpet to determine the surface area of carpet removed and replaced. The old carpet will be recycled and diverted from the landfill. The mass of material diverted from the landfill and associated cost savings associated with the recycling of carpet will be tabulated.

Projects Proposed for Calendar Year 2015

Project #2 – Develop a Trip Reduction Plan for IM Flash Team Members

IM Flash Technologies, LLC (IM Flash) manufactures semiconductor products and operates continuously every day of the year. During winter time inversions, air quality action days are frequently called by the Utah Division of Air Quality. The call to action includes encouragement to consolidate trips and reduce vehicle miles traveled. Currently, private entities such as IM Flash are not required to implement a trip reduction plan for their employees. Development of a trip reduction plan will enable IM Flash to prepare for the opportunity to contribute to vehicle emission reductions.

Commitment: IM Flash will develop a trip reduction plan. Completing this project will require the following steps:

- Assemble a project team
- Gather and review existing plans and options
- Develop a plan to encourage IM Flash employees to reduce trips
- Present plan to management for approval

Accomplishments: To Be Determined

Indicators: The trip reduction plan that is developed should allow IM Flash to estimate the potential reduction in vehicle miles traveled and reduction in emissions associated with IM Flash team members commuting to and from work.

Projects Completed 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: The copper/nickel reclaim system was operated during calendar year 2014. The value of the project was realized through reduced resin purchases, waste disposal costs and metal recycling. More than 300 lb of metal was reclaimed from waste water during the first year of operation.

Table 1. Benefits Associated with the Operation of the Copper/Nickel Reclaim Process for Calendar Year 2014 (Baseline Year: 2013)

Annual Reduction in Hazardous Waste Generation (lb)	Annual Cost Savings (\$)
22,700	\$284,000

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: IM Flash successfully removed over 500 old light fixtures and replaced these light fixtures with fewer and new high efficiency LED light fixtures. Motion sensors were also installed, because the light fixtures were located in less traveled areas of the facility. This added to the energy and cost savings achieved beyond simply replacing the light fixtures.

Table 1. Benefits Associated with the Completion of the Light Replacement Project.¹

Annual Electrical Energy Saved (kWh)	Annual Cost Savings (\$)	Annual Reduction in Metric Ton of CO ₂ Equivalents (MTCO ₂ e)
873,399	\$68,038	541

1. Cost savings and reduction in greenhouse gas emissions were calculated using default factors in EPA’s Pollution Prevention spreadsheets.