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## Annual Report

For the period of January 1, 2015 through December 31, 2015

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

February 4, 2016

Date

Brad Mortensen

Print Name

Facilities Director

Title

REVIEWED  
IMFT LEGAL

## Projects Completed Calendar Year 2015

### 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:**

IM Flash has tracked the replacement of office carpet to determine the surface area and mass of carpet removed and replaced. At the end of 2015, over 60,000 lb of used carpet was recycled and diverted from the landfill. The mass of material diverted from the landfill and associated cost savings associated with the elimination of disposal costs are tabulated below.

Reduction in Solid Waste Generation (lb)	Cost Savings (\$)
60,000	\$3,000

## 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 meet IM Flash's needs
- Present plan to management for approval

### **Accomplishments:**

An initial trip reduction plan was developed by a project team that represented employees from across the company. The plan was presented to management for approval. The concept of the plan is to implement the plan in two phases. The first phase includes employee education and awareness regarding air quality and the air quality alert system utilized by the State of Utah. The second phase of the plan is designed to reduce employee trips during periods of extended winter time temperature inversions when air quality is significantly degraded.

Note: The past few winter seasons have been relatively mild. There have not been a significant number of days when the particulate health standard has been exceeded. IM Flash anticipates that the trip reduction plan will be implemented as needed in the future.

## Projects Proposed for Calendar Year 2016

### Project #1 – Energy Conservation

IM Flash Technologies, LLC (IM Flash) is committed to reducing environmental impacts from our operations. IM Flash generates and uses ultra-pure water for manufacturing semiconductor products. Producing ultra-pure water includes the operation of ultra-violet (UV) light as a polishing step. Historical data suggests that organic compounds in the water are typically relatively low and below the requirement for UV treatment.

**Commitment:** This project is designed to reduce the amount of electrical energy used in the production of ultra-pure water. IM Flash will install additional water quality monitoring equipment which will provide for a new control scheme of the UV light system. IM Flash anticipates that this new approach will reduce electrical energy consumption and create an indirect reduction in GHG emissions.

**Accomplishments:** TBD

**Indicators:** IM Flash will monitor the use of the new control system and track the capacity factor of the UV system during the year. At the end of the year, the savings and environmental benefit from the anticipated reduction in electrical energy use will be tabulated.

## Project #2 – Conservation of Natural Resources and Sustainability

IM Flash Technologies, LLC (IM Flash) manufactures semiconductor products. A variety of high purity gases are used in the manufacturing process. One of these gases is the noble gas: neon. Neon is obtained from ambient air in an air separation facility using methods of liquefaction of gases and fractional distillation. Since neon is present in the air at very low concentrations, the energy required to obtain neon from the ambient air is significant.

**Commitment:** IM Flash will work with a high purity gas supplier to install and operate a unique system to capture gases used in the semiconductor manufacturing process. These gases will be repackaged in cylinders and returned to the supplier for reclamation and reuse of neon. The successful completion of this project could lead to this process being replicated at other semiconductor facilities.

**Accomplishments:** TBD

**Indicators:** After installation and operational checks of the recovery equipment has been completed, the quantity of gases recovered and returned to the gas supplier will be tracked throughout the year. While this project is a sustainability project for IM Flash, an evaluation of the potential environmental benefits will also be made.

