

US EPA ARCHIVE DOCUMENT

EPA 2009 State Innovations Grant **April - June 2010 Quarterly Report**
 Washington State Department of Ecology – **Lean and Green Assistance** 7-29-2010

Part 1 Synopsis of Accomplishments during the Reporting Period

April 21, 2010	Lean and Green Presentation/marketing at Seattle Go Green Conf.
April 28, 2010	Submitted Jan-March 2010 quarterly report to EPA
May 3, 2010	Lynn Coleman's first day – Lynn is slated to become the project manager for the Lean & Green Assistance Project
May 2010 various dates	Sarah Stewart of Impact WA works with AccraFab to measure the variability of the existing chromate conversion process
June 2, 2010	Hugh O'Neill and Lynn Coleman of Ecology travel to Seattle to meet on Lean and Green Project issues with: Nigel Moore of Impact WA; Michelle Gaither and Paula del Giudice, PPRC; Jennifer Tice, Ross & Associates; and representatives of TRAY Creative (a marketing firm specializing in assisting green organizations).
June 14-18	Dolco Packaging holds Recycling Kaizen Event (Ecology's Holly Cushman and Cristiana Figueroa attend)
June 21- 25	SunOpta Fruit hold Wastewater Kaizen Event (Ecology's Lynn Coleman attends)
June 28-July 1	SunOpta holds energy Kaizen event (Ecology's Cristiana Figueroa and WSU's Bill Wilson attend)
June 2010 various dates	Michael Johnson under contract with Impact WA, works with AccraFab to restore their (fouled) ion exchange system and design a workable procedure for future wastewater treatment. Results indicate that over 500,000 pounds of annual acid wastewater can potentially be reduced. Implementation is scheduled for August 2010.

Part 2 – Narrative Discussion

We entered spring of 2010 still concerned about our ability to market and sell Lean & Green projects. However, this has turned out to be our busiest quarter ever for project events. This may, in part, be a result of allowing projects with a focus other than toxics reduction (e.g. wastewater, energy, and solid waste reduction). We relaxed the focus of the events because our deadline for spending the PPG contract dollars was looming. We will be measuring the potential environmental results in the next quarter's timeframe.

Three Lean & Green projects are underway: AccraFab (Spokane), SunOpta (Omak), and Dolco (Wenatchee).

1. AccraFab, a metal finishing facility near Spokane, completed the first phase of their work in June 2010. The project objective is to reduce acid wastewater generation and chemical use in the facility's chromate conversion process. The first phase showed that reduction of about 500,000 pounds of acid wastewater is possible. Phase two, which is planned for late summer 2010, would install the equipment, develop SOPs and train facility staff for the improved process to get the actual reductions.

2. SunOpta, a fruit and grain processor in Omak, WA completed the following lean & Green events:
 - a. Lean 101 and a value-stream map in March;
 - b. A recycling Kaizen in April;
 - c. A wastewater reduction kaizen in mid June; and
 - d. An energy kaizen in late June/early July 2010.
3. Dolco Packaging in Wenatchee completed a recycling kaizen event in mid-June 2010. Dolco is the first example of a facility that worked with Impact WA to train its staff on lean manufacturing using a Job Skills Program (JSP) grant and then complete an "Ecology Kaizen." This model can be used because the value-stream map is done as a part of the JSP lean training.

We are still transitioning from EPA PPG grant funding to SIG grant funding. At the beginning of the calendar year, we had about \$40,000 of Impact Washington contract funds left to spend in the PPG grant. The grant projects have nearly identical goals. We have now spent almost all of these PPG Impact Washington contract funds (there are about \$4,500 of these contract funds left as of 6/30/10). We did get an extension of the PPG grant until 9/30/10.

We are using SIG funding to support staff costs and travel for these same projects (Lean and Green facility demonstration projects). Discussions with EPA Region 10 identified that credit for the projects completed prior to 9/30/2010 will need to be shared by the Innovations Office and the Pollution Prevention Office of EPA.

With all of the Lean & Green events this spring, it looks likely that we will spend all of the PPG contract funds by 9/30/10. We are planning to focus the SIG contract funds more toward toxics and even toward PBT chemical reduction (especially mercury, cadmium, and lead reduction).

The Lean & Green Team continues to partner with the Ecology TREE Team to take advantage of each Team's skills, methods and capacities.

The state of Washington budget is still a concern. More cuts to the Department of Ecology budget are on the way in spring and summer 2010. It is uncertain how this might affect the Lean & Green Assistance Project.

Part 3 – Projection of Activities, Accomplishments, and Major Expenditures for Next Quarter Report

- Ecology (Hugh) will send Nigel Moore at Impact Washington a list of 100 facilities with the highest releases of toxic metals, as a "priority list" for marketing efforts.
- Accrafab will be installing equipment, developing SOPs and training employees on their improved process (with the help of Impact Washington's Michael Johnson and Ecology's Tony Cooper) in August and September 2010.
- Interviews and draft case studies for Dolco and SunOpta will be developed by Michelle Gaither of PPRC.

- Lynn Coleman will help make sure that key people in other Ecology programs know about the Lean & Green program (e.g., through briefings or attending meetings, visual display in the lobby, and/or other means).
- Lynn Coleman & Hugh O’Neill will look at revisions that are warranted to the Lean & Green Project Marketing Flyer for the new grant (e.g., toxics focus, funding level, etc.), and will work with Impact Washington on revisions to the flyer.
- Lean and P2 (NPPR) calls continuing monthly in 2010. Paula del Giudice and Thomas Vinson-Peng organizing.
- Lynn Coleman is developing a flowchart describing optimal/recommended procedures and flows of communications among Ecology, Impact Washington, and facilities for projects.
- Ecology (Cristiana Figueroa-Kaminsky, Hugh, and Lynn) will be participating in a meeting with WSU Energy, UW IAC, IW, PPRC, NW Energy Efficiency Alliance, and the WA Department of Commerce (tentative date is September, Ecology’s Eli Levitt is scheduling) to discuss a greenhouse gas emission reduction strategy for the state. This could be an opportunity to re-engage with energy assistance providers in the state.
- Hugh and Cristiana will continue working on an Interagency Agreement with WSU Energy for involvement of WSU Energy in Lean and Green and Greenhouse Gas reduction projects after October 1.
- Lynn, Hugh, and Jennifer Tice will meet in Seattle to develop a work plan and budget for Ross & Associates’ work on the project, as a way to better plan for the number of hours that will be involved for tasks associated with the work expected with the State Innovation Grant.
- Jennifer Tice of Ross & Associates will prepare an interim/partial draft of the “toolkit evaluation memo” based on the lessons learned from the Lean & green projects this year, so that can feed into the briefing presentations for Ecology management and key partners.

Part 4 – Financial Report

See Donna Allen’s budget report – separate Excel file. This budget report is for expenditures through 6/30/2010.