

Oregon OSHA Worksite Redesign Grant Final Quarterly and Project Report

Company: **Schnitzer Steel Industries, Inc.**
Contract Number: **#99/01-06**
Project Name: **Adjustable Work Platform**

Date: 1/16/02

Project accomplishments and effectiveness:

This project has resulted in the development of equipment that can truly make a difference in material sorting environments where manual sorting over a conveyer is required. The lift developed can adjust over a range of 8.5" in elevation and provides a stable work platform with support rails as required, to allow employees to optimize the floor height to the elevation of the conveyer. This allows shorter employees to raise the floor, and taller employees to lower it. It reduces the pressure on the lower back that results from excessive leaning and stretching while working. An original design was tried using air over hydraulic controls, but these proved to be expensive and complicated to produce. A second variation was developed that used a self-contained electric motor hydraulic pump with 4 cylinder legs. The pump is powered by 115 volt AC power. The fabricated framework mounts the cylinders and pump system to complete an easy to use solution that is operated by the push of a button.

Project evaluation data:

The post ergonomic report has been attached to the back of this report, which shows the evaluation data.

A synopsis of the project evaluation:

We have also included the one page "executive overview" of the project for your review. It is a synopsis of the project and included a brief evaluation.

A plan to continue evaluating the project:

The plan for continued evaluation will be in the form of using the device. Linda Barno from Schnitzer Steel Industries, Inc. will continue to monitor the use and effectiveness of the device, and will be available for information on an ongoing basis.

How have other employers been informed of the results of the project?

A detailed story outlining the project and its benefits was written. It has been submitted for publication to the Small Business Administration (SBA) periodic newsletter, which goes out to thousands of small businesses in Oregon. It will also be posted on the pending Or-OSHA website, which will disseminate information on this and other finished projects.

List of deliverables supplied for posting to the Oregon OSHA website:

The list agreed to in project close meetings has been supplied below. This has been supplied in electronic format, and includes:

1. VRML Solid Model.
Readable with Cortona VRML software
2. Solid Model CAD File:
 - A. Original CAD File Format from creation.
 - B. DXF Format (wire frame).
 - C. Any other available CAD outputs you wish to deliver.
3. One page executive overview with digital photo of device.
Microsoft Word
4. Vendor list with cross ref. code.
Excel
5. Bill of material with vendor cross ref. code and estimated costs.
Excel
6. Published article.
Microsoft Word
7. Ergonomic Original and Final reports.
Microsoft Word

Additionally, a VHS Video of the device has been supplied as outlined in the contract.

Cost of project:

The Or-OSHA dollars spent on this project total **\$45,197**. Through adjustments in the spending categories as approved, it was completed within the cost scope budgeted.

The attached Exhibit C reflects a billing totaling **\$8,110** for this final quarter.

OMEP has e-mailed a final category expenditure adjustment request on this project. Our records indicate that DCBS is due back a rebate check totaling **\$8,794** from this project fund. Please contact Pat Kraft from OMEP to confirm this amount.

Customer match overview:

Schnitzer Steel Industries, Inc. has documented in excess of **\$28,690.59** in matching conveyer line modifications and match. This match was reviewed by Mike Lulay and documented in quarterly reports. He concurred that the minimal 10% required match was easily met.

In closing, I would like to thank Oregon OSHA and the Department of Consumer and Business Services for their support and encouragement in this project. Mike Lulay, Mark Hurliman, and all the staff at Or-OSHA have been very helpful and supportive throughout this project. It is hoped that over time, other businesses will benefit from this project's results.

Patrick Kraft
OMEP Manufacturing Consultant
And Project Manager for Schnitzer Steel Industries Inc.