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Investigation into Alternative Solvents for Cold Cleaning at OFS

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Investigation into Alternative Solvents for Cold Cleaning at OFS

A Major Qualifying Project Report

submitted to the Faculty

of the

WORCESTER POLYTECHNIC INSTITUTE

In partial fulfillment of the requirements for the

Degree of Bachelor of Science

by

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Date: 4/27/2016

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Abstract

Research into alternative solvents was conducted to identify replacements for cleaning agents that are used in the plant. The goal was to find alternatives to the present cleaner that are economical and feasible to implement. Another goal was to develop strategies to decrease the amount of cleaners used. Solvents were selected for research based on industry acceptance, safety rating from State databases, and chemical properties that favor degreasing. Testing was conducted using the current cleaner as a baseline for comparison.