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Process Improvements at The Dow Chemical Company

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Process Improvements at The Dow Chemical Company

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: March 31, 2016

Approved:

Professor Stephen Kmiotek, Major Advisor

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The Dow Chemical Company is a global supplier of materials and technologies in the electronics industry. Currently, the company is looking to improve one of their chemical processes. Through site visits and process analysis, the group identified points of improvement in their current procedure and subsequently developed a revised procedure to increase throughput of the process. While suggesting improvements, the group focused on process safety in the design.