Hazard Analysis MTOBridge

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Table 1: Revision History

Date	Developer(s)	Change
October 12 2022	Darren	Added System Boundaries & Compo-
Date2	Name(s)	nents Description of changes
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1 Introduction

[You can include your definition of what a hazard is here. —SS]

2 Scope and Purpose of Hazard Analysis

3 System Boundaries and Components

This hazard analysis addresses the system that consists of the following components:

- 1. UI Component, for providing a graphic display to the user and visualizing MATLAB results
- 2. Input Handler Component, for processing user inputs
- 3. MATLAB Interaction Component, for calling scripts and supplying specified arguments to them
- 4. MATLAB Engine Component, for performing bridge calculations
- 5. File Manager Component, for reading inputs from files and saving results in various formats

The system boundary includes these software components and any dependency files required for the application to operate. Although the MATLAB Engine Component is owned by the client and its exact contents verified independent of this project, this hazard analysis will address it due to being a crucial component of the system.

4 Critical Assumptions

[These assumptions that are made about the software or system. You should minimize the number of assumptions that remove potential hazards. For instance, you could assume a part will never fail, but it is generally better to include this potential failure mode. —SS

5 Failure Mode and Effect Analysis

[Include your FMEA table here —SS]

6 Safety and Security Requirements

[Newly discovered requirements. These should also be added to the SRS. (A rationale design process how and why to fake it.) —SS]

7 Roadmap

[Which safety requirements will be implemented as part of the capstone timeline? Which requirements will be implemented in the future? —SS]