MBSE\_Class\_7\_11\_2020\_Demo

Requirement Report

Author: <Author name>

Revision: 0.1

|  |  |
| --- | --- |
| NA |  |
| NA | Date: July 25, 2020 |

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Reason For Changes** | **Author** |
| 1.0 | Jan 02, 1990 | <Release> | <Author Name> |
| 0.1 | Jan 01, 1990 | <Initial draft> | <Author Name> |
|  |  |  |  |

**Table of Contents**

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**Table of Figures**

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**Executive Summary**

This section previews the main points of a report. The executive summary contains enough information for a reader to get familiarized with what is discussed in the full report without having to read it.

# Introduction

## Purpose

<This document provides requirements with their properties including requirement id, requirement name, requirement text and the dependencies.>

## Scope

<Provide a short description of the system being specified and its purpose, including relevant benefits, objectives, and goals.>

## Overview

<Describe what the document contains and explain how the document is organized>

# 1 Connect to Mains Power

The CMS shall connect to mains power.

**Verify Method:**

Inspection

# 2 Maximum Water Temperature

The CMS shall heat water to 100C in 2 minutes.

**Verify Method:**

Demonstration

**Derived From:**

|  |  |
| --- | --- |
| -557300875.png | [7 Brew Volume](#_8bd3ebdce58be0cbebda1177aa23dd87) |

**Satisfied By:**

|  |  |
| --- | --- |
| 1565148791.png | [Heat Water](#_32d1efe9ac549bbe48869ae8c448b80c) |

**Verified By:**

|  |  |
| --- | --- |
| -607286236.png | [Measure Temperature Rise](#_c3dcdc3867d2a75202612ccd7176c62a) |

**Traced From:**

|  |  |
| --- | --- |
| 1565148791.png | [Heat Water](#_32d1efe9ac549bbe48869ae8c448b80c) |

|  |  |
| --- | --- |
| -607286236.png | [Measure Temperature Rise](#_c3dcdc3867d2a75202612ccd7176c62a) |

# 3 Brewing Volume Selection

The CMS shall dispense coffee in thress user-selectable volumes.

**Verify Method:**

Demonstration

**Refined By:**

|  |  |
| --- | --- |
| -1096812108.png | [Dispense Coffee](#_1a014c067c23acd3f160433f160b23b8) |

**Satisfied By:**

|  |  |
| --- | --- |
| 1565148791.png | [Dispense Coffee](#_2e8cacfc9af82c0d22dc56c98cee764a) |

**Traced From:**

|  |  |
| --- | --- |
| 1565148791.png | [Dispense Coffee](#_2e8cacfc9af82c0d22dc56c98cee764a) |

## 3.1 Dispense 8 oz.

The CMS shall dispense 8 oz of coffee upon user request.

**Verify Method:**

Test

## 3.2 Dispense 12 oz.

The CMS shall dispense 12 oz of coffee upon user request.

**Verify Method:**

Test

## 3.3 Dispense 16 oz.

The CMS shall dispense 16 oz of coffee upon user request.

**Verify Method:**

Test

# 7 Brew Volume

The CMS shall brew 64 oz of coffee in not more than 5 minutes.

**Verify Method:**

Test

**Derived:**

|  |  |
| --- | --- |
| -557300875.png | [2 Maximum Water Temperature](#_904725548191bf7a383f37cf994bc4f2) |

**Traced From:**

|  |  |
| --- | --- |
| -557300875.png | [2 Maximum Water Temperature](#_904725548191bf7a383f37cf994bc4f2) |

## 7.1 Water Volume

The CMS shall store at least 64 oz of water

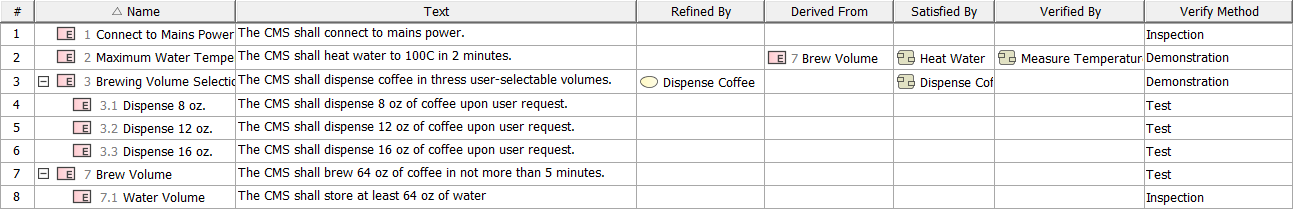
**Verify Method:**

Inspection

# Appendix A: Diagram

## CMS Requirements

NA



1. CMS Requirements