



MAS221 Industrial IT Student Project, Fall 2016

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# IAT/FAT

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## 1 INTRODUCTION

### 1.1 GENERAL

This document shall verify that xxxxx works according to the specification given in document Functional Design Specification.

### 1.2 DEFINITIONS

SMDL	Projects document list (Supplier Master Document List).
EPMS	Projects activity plan (Engineering, Procurement and Manufacturing Schedule).
IAT	Internal acceptance test.
FAT	Factory acceptance test.
SAT	Site acceptance test.
FDS	Functional Design Specification.

### 1.3 REFERENCES

Functional Design Specification.

### 1.4 PUNCH TYPES DEFINITION

In the punch reporting, errors and deviations is required to be categorized. This will be used as a basis for authentication and non-approval criteria of the tests.

The following categories are used for errors and discrepancies:

Category A: Error in one or more features that causes the stop. For example, machine / system / function must be restarted.

Category B: Problems have serious consequences in the system or adjacent systems, such as errors in databases, serious errors in the reports so that they are incorrectly interpreted, etc.

Category C: Error with less serious consequences, such as smaller degree of instability, minor functions or property deficiency, etc.

Category D: Error without serious consequences, such as layout frailty or misprint in screens, reports or documentation that does not have consequences for the understanding of these.

The test is considered approved when 100% of the planned tests are carried out and there is no open A and B errors. In addition, a documented agreement on the further processing of the C and D errors are required.

### 1.5 PREPERATIONS BEFORE TEST



## IAT/FAT

### 2 TEST

The tests were done throughout the project, in order to keep the design process on track.

#### 2.1 TEST 1

		IAT date / sign.	FAT date / sign.	
Item	Description			Comment
2.1.1	I/O configuration	6.11.2023 <i>Jan Laksesvela Haugstad</i>		I/O mapping working.
2.1.2	Button Functionality Mapping	9.11.2023 <i>Adrian Mathias Lervik Ling</i>		Implemented Toggle button for motor with debouncer
2.1.3	Sensor Mapping	11.11.2023 <i>Thomas Lønne Stiansen</i>		Added sensors to HMI, scaled from bits
2.1.4	Emergency System	13.11.2023 <i>Thomas Lønne Stiansen</i>		Emergency System now interrupt in parallel
2.1.5	Control Logic	16.11.2023 <i>Thomas Lønne Stiansen</i>		Now works with PID, controlling water height.