FACTORY ACCEPTANCE TEST

Excel Engineering, Inc.

Title:	FAT-200219-TM01-Hold_Attachment07	
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1.1 Equipment Module - States

1.1.1 Acceptance Criteria

For each equipment module state, verify the following are true for each step of the state:

1. The test step executes the described step action.
2. The step does not continue until the transition criteria are met.
3. The test steps proceed as expected without any unexpected stuck conditions.

If all the criteria are met, mark the test step as 'Pass'. If all the criteria are not met, evaluate if the discrepancy requires a deviation resolution as detailed in FAT-200219-TM01-Hold Section 9.4 (Protocol Deviation Resolution).

1.1.2 Test Traceability

This test section verifies the states required by the equipment modules as specified in the following specification sections:

- Document # SPC-200219-SLP_DS, Section 6.2 "Large Solution Prep Hold Tank (TM01-Hold) Unit"

Comments	
	□ N/A
Reviewer Signature	**Review Date**

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1.1.3   EM-TM01-Hold-Methanol

1.1.3.1   Reset

Step	Step Action	Step Transition	Next Step
30	Command XS-TM01-011 to Close Command FIC-TM01-001 to 0% Command FQI-TM01-001 to Stop and Clear Clear SOL01 Methanol Request signal	XS-TM01-011 is Closed AND FIC-TM01-001 is at 0% AND FQI-TM01-001 is Stopped and Cleared	Complete

Comments	
	□ N/A
Reviewer Signature	**Review Date**

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1.2   Equipment Phase - Key Configuration Parameters

1.2.1   Acceptance Criteria

For each test item, verify the content in the table matches the same values as indicated by the HMI faceplate for the listed equipment phase. If the content matches, mark the test step as 'Pass'. If the content does not match, evaluate if the discrepancy requires a deviation resolution as detailed in FAT-200219-TM01-Hold Section 9.4 (Protocol Deviation Resolution).

1.2.2   Test Traceability

This test section verifies the key configuration parameters required by the equipment phases as specified in the following specification sections:

- Document # SPC-200219-SLP_FS, Section 7.2 "Large Solution Prep Hold Tank (TM01-Hold) Unit"
- Document # SPC-200219-SLP_DS, Section 6.2 "Large Solution Prep Hold Tank (TM01-Hold) Unit"

Comments	
	□ N/A
Reviewer Signature	**Review Date**

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1.2.3   Generic Parameters

No.	EP ID	Area	Description	Label	Tag	Pass / Fail	Initial / Date
1	EP-TM01-Hold-Prompt	SLP	TM01-Hold Prompt	EP-Prompt	EP		

No.	EP ID	Interlock Trip Alarm		Device Alarm		Report Data Alarm		Timeout Alarm		Pass / Fail	Initial / Date
		Has	Stop	Has	Stop	Has	Stop	Has	Stop		
2	EP-TM01-Hold-Prompt	NO	N/A	NO	N/A	NO	N/A	NO	N/A		

No.	EP ID	Hold On		Pass / Fail	Initial / Date
		Interlock	Alarm		
3	EP-TM01-Hold-Prompt	NO	N/A		

Comments	
	☐ N/A
Reviewer Signature	**Review Date**