


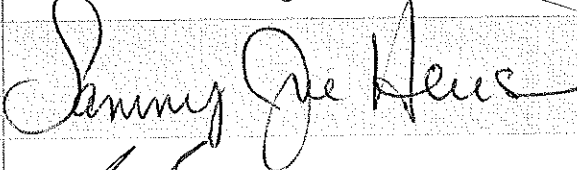
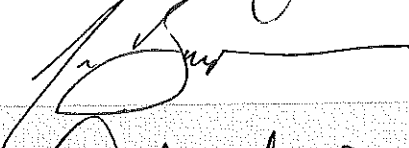
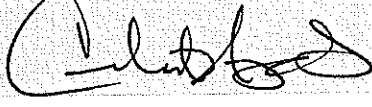
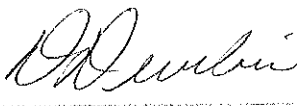
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Validation Protocol		
	Title: Main MgO Mix Pot Final Report	Number: E17-VAL-PFR-550	
	Owner: Kenneth Basehore	Revision: 0	
	Effective Date: February 28, 2017	Page: 1 of 4	

I. Approvals

Signing below indicates agreement that the execution of the Installation, Operational and Performance Qualification Protocol (E17-VAL-PIQ-550) for the Main MgO Mix Pot, located on top of Digester #4, at 102 Commerce Street, is complete and the process is validated.

Project Member	Functional Area	Signature	Date
Patrick Owen	Engineering		1/31/17
Kenneth Basehore	Engineering		1/23/17
Sammy Henson	Maintenance		1/23/17
Jason Bumgarner	Production		02-02-17
Matt Haynes	Operations		02-03-17
Deborah Durbin	Quality		2/2/17

A copy of the executed protocol will be attached to this report.

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II. Purpose

The purpose of this protocol is to certify with documented evidence that the Main MgO Mix Pot, functions as intended throughout its anticipated operating ranges. This protocol sets forth the objectives, methodology, documentation, and test activities needed to complete the Installation Qualification (IQ), Operational Qualification (OQ) and Process Qualification (PQ) for the Main MgO Mix Pot, located at 102 Commerce Street at the Main Plant production facility.

III. Summary

This vessel was constructed on site by contractors, beginning late 2016, and completing in early 2017. The vessel produces a MgO/water slurry to be used in the digesters for reaction with sulfuric acid.

The following tests were performed during this qualification:

- MgO feed rate verification – To document that the MgO feed varies as the feed setpoint is changed.
- Discharge feed rate verification – To document that the slurry discharge feed varies as the setpoint is changed.
- Control verification – To document that the controls will start and stop the Mix Pot as designed.

All installation, operational and performance acceptance criteria were met as displayed in the attached executed protocol.

IV. Conclusion

The results of the completed installation, operational and performance qualification protocol show that all acceptance criteria were met for all samples. All testing results provide documented evidence that the Main MgO Mix Pot is installed, is operating and is performing as expected.

The tests were performed on 1/23/17, with training on the procedure updates completing on 1/27/17.

V. Recommendations

It is recommended that the Main MgO Mix Pot, located at the Giles Chemical Main Plant at 102 Commerce Street, Waynesville, NC 28786 be considered validated based on meeting the acceptance criteria of the IQ/OQ/PQ protocol.

VI. References

E17-VAL-PIQ-550: Main MgO Mix Pot Validation Protocol

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GILES CHEMICAL ~ PREMIER MAGNESIA

Validation Protocol

Title: Main MgO Mix Pot Final Report

Number: E17-VAL-PFR-550

Owner: Kenneth Basehore

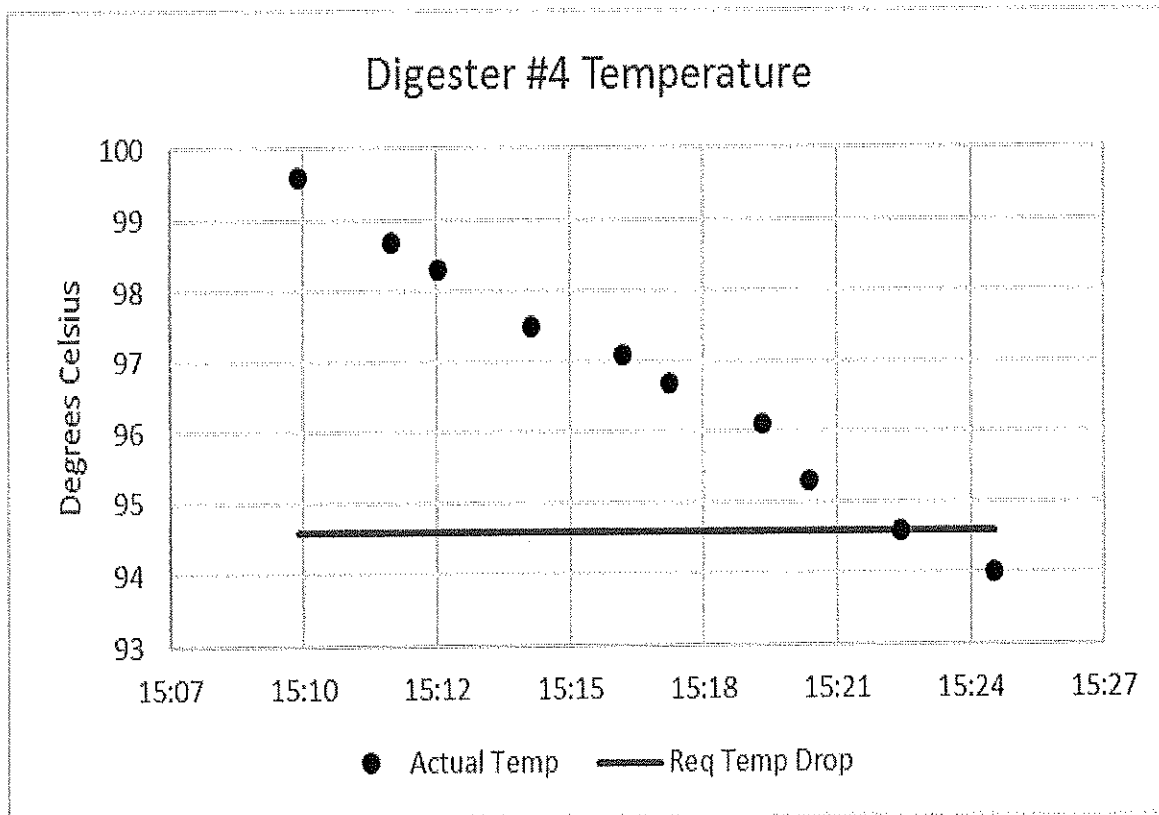
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VII. Summary of Temperature Data



The required temperature drop of 5 °C within 30 minutes was met.

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