

Validation Protocol

Title: ACS Filter Press Validation Final Report Number: E17-VAL-PFR-231

Owner: Kenneth Basehore Revision: 0

Effective Date: June 9, 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-230) for the ACS filter press, located at 102 Commerce Street, is complete and the process is validated.

Project Member	Functional Area	Signature	Date
Patrick Owen	Engineering	1200	5/31/17
Kenneth Basehore	Engineering	Kunh Barky	5/31/17
Sammy Henson	Maintenance	Janua Je Kleic	5/31/17
Jason Bumgarner	Production	/ Su	5-31-17
Matt Haynes	Operations	althes.	6/31/17
Deborah Durbin	Quality	Dellin	5/3/17

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 ACS filter press 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 ACS filter press, located at 102 Commerce Street at the Main Plant production facility.

III. Summary

The ACS press filter was installed on site by contractors during late 2007. It is intended to receive a MgSO₄ solution from the digesters. The solution is known as 'mud'. The mud is pumped through a series of filter plates at high pressure. The plates have filter cloths mounted on them, with a mesh tight enough to filter out insoluble impurities. The liquid flow from the filter press is pumped to storage tanks for use in the vacuum crystallizers. This liquid is called 'brine'.

The following tests were performed:

- The unit is installed correctly, and with access to all required points
- The squeeze pressure is appropriate
- The associated pumps are installed correctly, with the correct rotation
- The filter cloths do not have creases or folds
- Brine clarity matches current filter press production

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 ACS press filter is installed, is operating and is performing as expected.

The tests were performed on 5/22/17 and 5/24/17.

V. Recommendations

It is recommended that the ACS press filter, 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.



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VI. References

E17-VAL-PIQ-230: ACS Filter Press IQ/QQ/PQ Validation

P12-PR-200-020: Filter Press Set Points

P12-PR-200-018: Pressure Washing the Filter Presses

P12-PR-200-017: Operating the Filter Press

Summary of Brine Clarity Data VII.

Six samples of brine were collected; a beginning, middle, end sample from two different presses (6 total), to determine two things:

If the brine clarity changed throughout the course of a run within one filter press, and

If the brine clarity changed between filter presses

To establish 'normal' operating condition, the Komline press was used (s/n AF-0228). The samples were pulled based on the following table:

Sample Number	Press	BME
1	ACS	Beginning
2	ACS	Middle
3	ACS	End
4	Netzsch	Beginning
5	Netzsch	Middle
6	Netzsch	End

Based on the laboratory testing, there is no difference between filter press runs, as well as within a single run. The brine clarity test passes.



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I. Approvals

Signing below indicates agreement that the protocol is ready for execution of the Installation, Operational, and Performance Qualification for the ACS filter press, located at 102 Commerce Street at the Main Plant production facility.

Project Member	Functional Area	Signature	Date
Patrick Owen	Engineering	flotes	5/15/17
Kenneth Basehore	Engineering	Kon Bash	5/10/17
Sammy Henson	Maintenance	Januar De Bleis	5/15/17
Jason Bumgarner	Production	1-5m	5 - 15-17
Matt Haynes	Operations	(Udd.)	ర-(క-17
Deborah Durbin	Quality	DDwelin	5-15-17

A final summary report that consists of results and conclusions based on the data collected after protocol execution will be written and approved. The executed protocol will be attached behind the report.



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II. Purpose

The purpose of this protocol is to certify with documented evidence that ACS filter press 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 filter press, located at 102 Commerce Street at the Main Plant production facility.

III. Background

The ACS filter press was installed on site by contractors during late 2007. It is intended to receive a MgSO₄ solution from the digesters. The solution is known as 'mud'. The mud is pumped through a series of filter screens pressed together with a hydraulic pump. The screens filter out insoluble impurities. The waste stream from the filter press is caked and hauled to a land fill. The product stream from the filter press (known as 'brine') is pumped to a storage tank, and is fed to the crystallizers to produce solid MgSO₄ salt.

IV. Overview

No other departments or systems will be affected by the installation of use or this equipment.

The following tests will be performed during this qualification:

- The unit is installed correctly, and with access to all required points
- The squeeze pressure is appropriate
- The associated pumps are installed correctly, with the correct rotation
- The filter cloths do not have creases or folds
- Brine clarity matches current filter press production

V. System Description

- 1. The filter press is operated through a series of preprogrammed steps in a control interface.
- 2. The steps control the squeeze pressure, the product flow and flush timing.
- 3. Mud flows into the press, and brine is separated from insoluble impurities.

VI. Scope

The IQ, OQ and PQ contained within this protocol is intended to certify with documented evidence that the ACS filter press is installed, operates and functions as intended throughout its anticipated operating ranges.

The product affected by this equipment is all salt produced in the Main Plant at 102 Commerce Street, Waynesville, NC.

VII. Roles and Responsibilities

- 1. Engineering
 - Write and issue the protocol



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- Investigate protocol deviation reports
- Execute the IQ, OQ and PQ portions of the validation
- Review the data and originate the interim notification to Quality Assurance
- Write and route the final report

2. Quality Assurance

- Review and approve the protocol
- Review and approve the raw data and notifications
- Review, approve and store the final report

3. Maintenance

- Provide equipment manuals needed to execute the validation
- Review and approve the protocol
- Review and approve the raw data and notifications
- Review and approve the final report

4. Production

- Review and approve the protocol
- Review and approve the raw data and notifications
- Review and approve the final report
- Assist, as needed with the execution of the IQ, OQ and PQ

VIII. Test Program

1. Installation Qualification (IQ)

a. Objective

The objective of the installation verification is to document that the ACS filter press is installed correctly.

b. Equipment and Materials

- ACS filter press
- Mud Feed Pump model MTX3196 (s/n 68401)
- Preheat pump model PC196 (s/n 6178)
- Squeeze pump model DVPF 6/6 B (s/n 290062362060GN)
- Cake wash pump model 3657 (J1402076)

c. Procedure

- Verify that the press is situated to allow sufficient room around the machine for access
- Verify that all pumps are situated to allow sufficient room for access
- Verify that the press is level
- Verify that the pumps are level
- Verify that the electrical utilities fall within the manufacturers required ranges



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d. Acceptance Criteria

Ensure that the installation is correct.

2. Operational Qualification (OQ)

a. Objective

The objective of the operational qualification is to ensure that the ACS filter press operates as intended by the manufacturer. The controls will be operated to test the ability of the vessel to start and stop as the circulation flow rate varies above and below the alarm limits.

b. Equipment and Materials

- ACS filter press
- Mud Feed Pump model MTX3196 (s/n 68401)
- Preheat pump model PC196 (s/n 6178)
- Squeeze pump model DVPF 6/6 B (s/n 290062362060GN)
- Cake wash pump model 3657 (J1402076)

c. Procedure

- Verify that the squeeze pressure is appropriate
- Verify that the associated pumps work properly
- Verify that the pumps have the correct rotation direction
- Verify that the cloths do not have creases or folds

d. Acceptance Criteria

Verification that the tested operations operate as indicated by the designer's specifications.

3. Performance Qualification (PQ)

a. Objective

The objective of the performance testing is to document that the ACS filter press performs the functions required by Giles Chemical. This protocol will verify the following:

b. Equipment and Materials

- ACS filter press
- Mud Feed Pump model MTX3196 (s/n 68401)
- Preheat pump model PC196 (s/n 6178)
- Squeeze pump model DVPF 6/6 B (s/n 290062362060GN)
- Cake wash pump model 3657 (J1402076)

c. Procedure

- Verify that the press proceeds through the programmed steps correctly
- Verify that the brine clarity is not different than existing press brine clarity



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d. Acceptance Criteria

The PQ will be accepted if the brine clarity is not different than existing press brine clarity, and if the press proceeds through the programmed steps correctly.

IX. Calibration

Verify that all instruments used are within the calibration dates.

• Calibrated multimeter

X. References

None



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Installation Qualification (IQ)

1. Equipment

Device		Calibration	Verified By	Date
	Date	Dxpiration		
Multimeter			<i>V</i> • • • • • • • • • • • • • • • • • • •	
Model: Fluke 114	10/2016	10/2017	LLB	5/22/17
S/N: 36250117WS				

Expected	Actual	Pass/Fail	Verified B	y Date
ACS Press Filter	ACS PRESS FILTER	Pass	KLB	5/22/17
Mud Feed Pump Model: MTX3196 S/N: 68401	MUD FEED PUMP MODEL: MTX3196 S/N: 68401	Pass	KLB	5/22/17
Preheat Pump Model: PC196 S/N: 6178	PREHEAT PUMP MODEL: PC196 S/N: G178	Pass	KLB	5/22/17
Squeeze Pump Model: DVPF 6/6 B S/N: 290062362060GN	SQUEEZE PUMP MODEL: DVPF 6/6 B S/N: 290062362060GN	Pass	KLB	5/22/17
Cake Wash Pump Model: 3657 S/N: J1402076	CAKE WASH PUMP MODEL: 3657 S/N: J1402076	Pass	KIB	5/22/17

2. Acceptance Testing

Expected	Actual	Pass/Dail	Venified By	Date
There is sufficient room around the press to allow access doors and panels to be opened	There Is sufficient room around the press to allow access doors and panels to be opened.	(As s	KLB	5/22/17
There is sufficient room around the mud feed pump to allow maintenance	There 15 sufficient room around the mud feed pump to allow maintenance	PASS	KLB	5/22/17
There is sufficient room around the preheat pump to allow maintenance	There 15 sufficient room around the preheat pump to allow maintenance	PASS	KLB	5/22/19
There is sufficient room around the squeeze pump to allow maintenance	There 15 sufficient room around the squeeze pump to allow maintenance	PASS	KUB	5/22/17



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There is sufficient room around the cake wash pump to allow maintenance	There 15 sufficient room around the cake wash pump to allow maintenance	PASS	KLB	5/22/17
The press is level	The press level	PASS	KLB	5/22/17
The mud feed pump is level	The mud feed pumplevel	PASS	KLB	5/12/17
The preheat pump is level	The preheat pump 15 level	PASS	KLB	5/22/17
The squeeze pump is level	The squeeze pump <u>15</u> level	Pass	KLB	5/22/17
The cake wash pump is level	The cake wash pump 15 level	PASS	KCB	5/22/17
All four pumps are 230 VAC 3PH	All four pumps <u>ARE</u> 230 VAC 3PH	PASS	KLB	5/22/17

3. Acceptance of Testing and Review

Expected	Actual	Pass//fail	Venitionity	Date
All actual results match the expected values.	All actual results MATCH the expected values.	PASS	KLB	5/22/17
The relevant standard working procedures are approved	The relevant standard working procedures <u>ARE</u> approved	PASS	KLB	5/22/17
List the procedure numbers	P12-PR-200-017 P12-PR-200-018 P12-PR-200-020	PASS	KUB	5/22/17
Results reviewed and accepted by			aw	5/26/17



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XI. Operational Qualification (OQ)

1. Equipment

Expected	Actual	Pass/Patt	Verificility	7 Dayle
ACS Press Filter	ACS PRESS FILTER	Pass	KB	5/22/17
Mud Feed Pump Model: MTX3196 S/N: 68401	MUD FEED PUMP MODEL: MTX3196 S/N: 68401	Pass	KLB	5/22/17
Preheat Pump Model: PC196 S/N: 6178	PREHEAT PUMP MODEL: PC196 S/N: 6178	Pass	KCB	5/22/17
Squeeze Pump Model: DVPF 6/6 B S/N: 290062362060GN	SQUEEZE PUMP MODELI DVPF 6/6 B S/N: 2900623620606N	PASS	KLB	5/22/17
Cake Wash Pump Model: 3657 S/N: J1402076	CAKE WASH PUMP MODEL: 3657 S/N: I1402076	Pass	KLB	5/22/17

2. Acceptance Testing

Expected	Actual Actual	Pass/Pail	Verified By	Date
The press is stopped	The press <u>'\\$</u> stopped	PASS	KLB	5/23/17
Press open filter	The press <u>OPENED</u> .	PASS	KLB	5/23/17
Ensure that none of the clothes have creases or folds	The cloths <u>ro Nor</u> have creases or folds	PAS S	KLB	5/23/17
Press close filter	The press <u>CLOSES</u> .	PASS	KLB	5/23/17
From the Main Screen, press the 'Go to Advanced' button	The button pressed	PASS	KLB	5/23/17
The program steps are displayed	The program stepsARE_ displayed	PASS	KCB	5/23/17



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Record the program steps	PRE HEAT WASH LIQUOR PRODUCT FEED WATER FLUSH PRE SQUEETE CAKE WASH FINAL SQUEETE CORE BLOW SQUEETE VENT	AIR BLOW AIR BLOW VENT CYCLE ENT	PASS	KLB	\$/23/17
Navigate to the 'Filter Setpoints' screen	The 'Filter Setpoints' screen 15 displayed		PASS	KLB	5/23/17
Change the 'Feed Low Flow to End' setpoint to 50 GPM	The setpointi5 changed		PASS	KL8	5/23/17
Change the 'Feed Low Flow to End' setpoint to 30 GPM	The setpoint changed		Pass	KCB	5/23/19
Record the 'Final Squeeze Pressure'	psi		Pass	KLB	5/23/17
Press start conveyor	The conveyor <u>STARTS</u> .		Pass	KLB	5/23/17
Press stop conveyor	The conveyor <u>stops</u> ,		Pass	KLB	5/23/17

3. Acceptance of Testing and Review

Expected	Actual	ក្រាវ៉ាងនៃ !	Dave
All actual results match the expected values.	All actual results <u>MATCH</u> the expected values.	KLB	s/23/17
The IQ section is complete with no deviations	The IQ section // complete with no deviations	KLB	5/23/17
Results reviewed and accepted by		CuO	5/24/17



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XII. Performance Qualification (PQ)

1. Equipment

Expected	Actual	Pass/Paff	Verificality	Date
ACS Press Filter	ACS PRESS FILTER	PASS	KLB	5/24/17
Mud Feed Pump Model: MTX3196 S/N: 68401	MUD FEED PUMP MODEL: MTX3196 S/N: 68401	PASS	KLB	5/24/17
Preheat Pump Model: PC196 S/N: 6178	PRENEAT PUMP MODEL: PC196 5/N: G178	PASS	KLB	5/24/17
Squeeze Pump Model: DVPF 6/6 B S/N: 290062362060GN	SQUEERE PUMP MODEL: DVPF 6/6 B S/N: 2900623620606N	PASS	KLB	5/24/17
Cake Wash Pump Model: 3657 S/N: J1402076	CAKE WASH PUMP MODEL: 3657 S/N: J1402076	Pass	KLB	5/24/17

2. Acceptance Testing

Expected	Actual	Pass/Datil	Verifical By	Darte
The press is stopped	The press 15 stopped	P455	KLB	5/24/17
Press open filter	The press <u>OPEN 5</u> .	PASS	KLB	5/24/17
Ensure that none of the clothes have creases or folds	The cloths <u>vo not</u> have creases or folds	Pass	KEB	5/24/17
Press close filter	The press <u>CLOSES</u> .	Pass	KLB	5/24/17
From the Main Screen, press the 'Go to Advanced' button	The button <u>15</u> pressed	Pass	KLB	5/24/17
The program steps are displayed	The program steps <i>ARE</i> displayed	Pass	KLB	5/24/17



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Record the program steps	PRE HEAT WASH LIQUOR PRODUCT FEED WATER FLUSH PRESQUEETE CAKE WASH FINAL SQUEETE CORE BLOW SQUEETE VENT	r PASS	KCB	5/24/17
Navigate to the 'Filter Setpoints' screen	The 'Filter Setpoints' screen 15 displayed	PASS	KLB	5/24/17
Record the 'Final Squeeze Pressure'	psi	PASS	KLB	5/24/17
Press start conveyor	The conveyorSTARTS	PASS	KLB	5/24/17
Press 'Start Filter'	The press // started	Pass	KLB	5/24/17
The press progresses through the program steps	The press PROGRESSES through the program steps	PASS	KLB	5/24/17
The mud feed pump has the correct rotation, and is working correctly	The mud feed pump	PASS	KLB	5/24/17
The preheat pump has the correct rotation, and is working correctly	The preheat pump	PASS	KLB	5/24/17
The squeeze pump has the correct rotation, and is working correctly	The squeeze pump	PASS	KLB	5/24/17
The cake wash pump has the correct rotation, and is working correctly	The cake wash pump	PASS	KLB	s/24/17 s/24/17
Collect a beginning brine sample for lab analysis	The sample 15 collected	PASS	KLB	5/24/17
Collect a middle brine sample for lab analysis	The sample collected	PASS	KLB	5/24/17



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Collect an ending brine sample for lab analysis	The sample <u>i.5</u> collected	P455	KLB	5/24/17
Collect a BME brine sample from a different filter press	The sample 15 collected Press s/n: 400 - 1322	PASS	KLB	5/24/17
The six samples show no difference in clarity	The six samples 5HOW NO difference in clarity	Pas s	KLB	5/24/17
The press is stopped	The press 15 stopped	PASS	としひ	5/24/17
Ensure that none of the clothes have creases or folds	The cloths <u>170 No7</u> have creases or folds	PASS	KLB	5/24/17

3. Acceptance of Testing and Review

Expected	Actual	Initials	Date
All actual results match the expected values.	All actual results MATCH the expected values.	KLB	5/24/17
The IQ section is complete with no deviations	The IQ section/s_ complete with no deviations	KLB	5/24/17
The OQ section is complete with no deviations	The OQ section complete with no deviations	KLB	5/24/17
The relevant standard working procedures are effective	The relevant standard working procedures effective	K613	5/24/17
List the procedure numbers	P12-PR-200-017 P12-PR-200-014 P12-PR-200-020	KLB	5/24/17



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Results reviewed and accepted by

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XIII. Protocol Deviation Report Log

Log each protocol deviation report in the table below. Attach PDRs to this protocol.

PDR#	Description	Protocol Section	Date Initiated	Date Resolved
			<u> </u>	
		NN		
COLOR OF THE COLOR			KLB	
			5 [(7] [1	



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XIV. Signature Identification Log

Identify in the table below any personnel involved in the execution of this protocol.

Name	Affiliation	Signature	Initials	Date
KENNETH BASEHORE	PROG. ENG.	Level Bash	KLB	5/22/17
Hishley Williams	Quality Associate	abley williams	aw	sloult
		Als		
		Lib Light		
dag ("An aya") and at the distribution of the Company of the Company of the Company of the Company of the Compa	andere en militarian e directar, communicar de color suán processe, e com e directa	5/30/1		