
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Lot Production Record		
	Title: Lot Production Record	Number: P13-FM-100-041	
	Owner: Jason Bumgarner	Revision: 07	
	Effective Date: 09/03/2016	Page: 1 of 1	

## LOT PRODUCTION RECORD

Date \_\_\_\_\_ Lot Number \_\_\_\_\_

**DAY**

**NIGHT**

Name	Initials		Name	Initials
_____	_____	Lead Operator	_____	_____
_____	_____	Process Operator	_____	_____
_____	_____	Material Handler	_____	_____
_____	_____	Warehouse	_____	_____
_____	_____	Salt Operator	_____	_____
_____	_____	Salt Operator II	_____	_____

### Completed paper work for lot record

✓ or X

Daily Production Report ( Day )	_____
Pallet count - Work Sheet	_____
Daily Production Report ( Night )	_____
Pallet count - Work Sheet	_____
SCR Sheets (All)	_____

### SPC Charts

Digester pH Log	_____
Digester Specific Gravity Log	_____
Process Specific Gravity Log	_____
Crystallizer Temperature Log	_____
Dryer Salt Temperature Log	_____
Dryer/Cooler Temperature Log	_____

### Process Upkeep Logs

Process Check Log	_____
Material handler Log	_____
Acid Log ( If applicable )	_____
MgO Log ( If applicable )	_____

### Quality Documents

Daily Process Audit	_____
Daily SCR Quality Audit (Mon-Fri Only)	_____
CoA (Weekly Lot #)	_____
Daily Affirmation Lab Results	_____

☐ Upon review of this batch record, initiation of a CAPA, Deviation, Non-Conformance, or OOS was noted.



#(s) \_\_\_\_\_

Production Signature \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

Quality Signature \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

Controlled Document

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.

		GILES CHEMICAL ~ PREMIER MAGNESIA						
		Lot Production Record						
		Title: Daily Production Report - Days			Number: P12-FM-100-009a			
		Owner: Jason Bumgarner			Revision: 07			
		Effective Date: 10/04/16					Page: 1 of 1	

Date and Shift ____ / ____ / ____			LO	PO	MH	WO	SO	SO-II	Other
DAYS									

Super Sacks	Customer	Product Type	CO #	Amount Produced	SCR	Screened Type

Total RePack Produced		CW	RP	RPS	RPM	RPO

Total Fines		Weight of each TSF -				
-------------	--	----------------------	--	--	--	--

Customers with Pre-printed bags	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste
	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste
	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste

	8:00	10:00	12:00	14:00	16:00	18:00	
Total Tons @							
Shift Rate							

Production Goal			Total Tons Produced		Liquid Loads	
-----------------	--	--	---------------------	--	--------------	--



Salt Re-melt Log	# of Hoppers		list of all barcodes re-melted during shift			
	# of Dust SS					
	# with No Tag					

Manager's Initials		QA's Initials		Any Issues resulting in loss of Production need to be addressed on Production sheet and / or Shift Transition Report
--------------------	--	---------------	--	--

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.

		GILES CHEMICAL ~ PREMIER MAGNESIA						
		Lot Production Record						
		Title: Daily Production Report - Nights			Number: P12-FM-100-009b			
		Owner: Jason Bumgarner			Revision: 07			
		Effective Date: 10/04/16					Page: 1 of 1	

Date and Shift ____ / ____ / ____			LO	PO	MH	WO	SO	SO-II	Other
NIGHTS									

Super Sacks	Customer	Product Type	CO #	Amount Produced	SCR	Screened Type

Total RePack Produced		CW	RP	RPS	RPM	RPO

Total Fines		Weight of each TSF -				
-------------	--	----------------------	--	--	--	--

Customers with Pre-printed bags	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste
	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste
	Customer	Product Type	CO #	SCR	Amount Produced	Screened Type
	Lot# of each Film roll Used		Start Count	End Count	Film Used	Waste

	20:00	22:00	0:00	2:00	4:00	6:00	
Total Tons @							
Shift Rate							

Production Goal			Total Tons Produced		Liquid Loads	
-----------------	--	--	---------------------	--	--------------	--

Salt Re-melt Log	# of Hoppers		list of all barcodes re-melted during shift				
	# of Dust SS						
	# with No Tag						

Manager's Initials		QA's Initials		Any Issues resulting in loss of Production need to be addressed on Production sheet and / or Shift Transition Report
--------------------	--	---------------	--	--

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.



## GILES CHEMICAL ~ PREMIER MAGNESIA

## Lot Production Record

Title: Digester Specific Gravity

Number: P12-FM-100-006a

Owner: Jason Bumgarner

Revision: 04

Effective Date: 07/07/2016

Page: 1 of 1



	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00
#1 Specific Gravity	1.410											
	1.404											
	1.398											
	1.391											
	1.385											
	1.378											
	1.372											
	1.366											
	1.359											
	Results -											

#2 Specific Gravity	1.410											
	1.404											
	1.398											
	1.391											
	1.385											
	1.378											
	1.372											
	1.366											
	1.359											
	Results -											

#3 Specific Gravity	1.410											
	1.404											
	1.398											
	1.391											
	1.385											
	1.378											
	1.372											
	1.366											
	1.359											
	Results -											

Time	Action taken when out of limits	Time	Action taken when out of limits
..		..	
..		..	
..		..	

Day Hopper full - x/✓												
ML Sp.Gr. 1.27-1.32												
Mud Temp 60-80C												
Mud Sp.Gr. 1.38-1.41												
Brine Sp.Gr. 1.37-1.40												
Initials												

DATE:		Production's Initials		QA's Initials	
-------	--	-----------------------	--	---------------	--

Controlled Document

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.



GILES CHEMICAL ~ PREMIER MAGNESIA  
Lot Production Record

Title: **Digester pH**

Number: **P12-FM-100-006b**

Owner: **Jason Bumgarner**

Revision: **05**

Effective Date: **07/07/2016**

Page: **1 of 1**



	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00	
#1 - 1st Digester pH	6.9												
	6.1												
	5.3												
	4.6												
	3.8												
	3.0												
	2.3												
	1.5												
	0.7												
	Probe-												
Paper -													

#2 - 1st Digester pH	6.9												
	6.1												
	5.3												
	4.6												
	3.8												
	3.0												
	2.3												
	1.5												
	0.7												
	Probe-												
Paper -													

#3 - 1st Digester pH	6.9												
	6.1												
	5.3												
	4.6												
	3.8												
	3.0												
	2.3												
	1.5												
	0.7												
	Probe-												
Paper -													



Time	Action taken when out of limits	Time	Action taken when out of limits
—:—		—:—	
—:—		—:—	
—:—		—:—	

Recovery												
O/P												
Pots Clean												
O/P												
Circ Loops												
>40gpm												
MgO Feed												
gpm												
ML Feed												
20-35gpm												
Initials												

DATE:		Production's Initials		QA's Initials	
-------	--	-----------------------	--	---------------	--

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.

	<b>GILES CHEMICAL ~ PREMIER MAGNESIA</b> <b>Lot Production Record</b>											
	Title: <b>Process Specific Gravity</b>				Number: <b>P12-FM-100-052</b>							
	Owner: <b>Jason Bumgarner</b>				Revision: <b>01</b>							
	Effective Date: <b>07/07/2016</b>				Page: <b>1 of 1</b>							

	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00	
Mud Density	1.410												
	1.404												
	1.398												
	1.391												
	1.385												
	1.378												
	1.372												
	1.366												
	1.359												
	Results -												

Brine Density	1.410												
	1.404												
	1.398												
	1.391												
	1.385												
	1.378												
	1.372												
	1.366												
	1.359												
	Results -												

Mother Liquor Densit	1.330												
	1.320												
	1.310												
	1.300												
	1.290												
	1.280												
	1.270												
	1.260												
	1.250												
	Results -												



<i>Time</i>	<i>Action taken when out of limits</i>	<i>Time</i>	<i>Action taken when out of limits</i>
1:--		1:--	
1:--		1:--	
1:--		1:--	

Solids	1											
	2											
	3											
	4											
	5											
Check yes or no if all of the items below are operating correctly												
Fine Salt												
City Water												
Chiller												
Initials												
DATE:		Production's Initials					QA's Initials					

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.



	<b>GILES CHEMICAL ~ PREMIER MAGNESIA</b> Lot Production Record															
	Title: <b>Crystallizer Temperatures</b>												Number: <b>P12-FM-100-007</b>			
	Owner: <b>Jason Bumgarner</b>												Revision: <b>05</b>			
	Effective Date: <b>07/07/2016</b>												Page: <b>1 of 1</b>			

	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
1 Crystallizer Temp	32.88											
	32.16											
	31.44											
	30.72											
	30.00											
	29.28											
	28.56											
	27.84											
	27.12											
	Results-											
2 Crystallizer Temp	32.88											
	32.16											
	31.44											
	30.72											
	30.00											
	29.28											
	28.56											
	27.84											
	27.12											
	Results-											
3 Crystallizer Temp	32.88											
	32.16											
	31.44											
	30.72											
	30.00											
	29.28											
	28.56											
	27.84											
	27.12											
	Results-											
4 Crystallizer Temp	32.88											
	32.16											
	31.44											
	30.72											
	30.00											
	29.28											
	28.56											
	27.84											
	27.12											
	Results-											
5 Crystallizer Temp	32.88											
	32.16											
	31.44											
	30.72											
	30.00											
	29.28											
	28.56											
	27.84											
	27.12											
	Results-											
Time	<i>Action taken when out of limits</i>					Time	<i>Action taken when out of limits</i>					
—:—						—:—						
—:—						—:—						
—:—						—:—						
Initials												
DATE:					Production's Initials				QA's Initials			

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.

	<b>GILES CHEMICAL ~ PREMIER MAGNESIA</b> <b>Lot Production Record</b>		
	Title: <b>Dryer Salt Temp</b>	Number: <b>P12-FM-100-005</b>	
	Owner: <b>Jason Bumgarner</b>	Revision: <b>04</b>	
Effective Date: <b>07/07/2016</b>		Page: <b>1 of 1</b>	

Dryer Salt Temp		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
	37.9												
	37.2												
	36.4												
	35.7												
	35.0												
	34.3												
	33.6												
	32.8												
	32.1												
	Reading -												

Cooler Salt Temp		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
	27.9												
	27.2												
	26.4												
	25.7												
	25.0												
	24.3												
	23.6												
	22.8												
	22.1												
	Reading -												

2000-lb Weight Check													
	2030												
	2024												
	2017												
	2011												
	2004												
	1997												
	1991												
	1984												
	1977												
	Results -												

50-lb Weight Check													
	50.85												
	50.68												
	50.51												
	50.35												
	50.18												
	50.01												
	49.85												
	49.68												
	49.51												
	Results -												

<i>Time</i>	<i>Action taken when out of limits</i>	<i>Time</i>	<i>Action taken when out of limits</i>
—:—		—:—	
—:—		—:—	
—:—		—:—	

Initials											
----------	--	--	--	--	--	--	--	--	--	--	--

DATE:		Production's Initials		QA's Initials	
-------	--	-----------------------	--	---------------	--

Controlled Document

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for the accuracy of the document.





## GILES CHEMICAL ~ PREMIER MAGNESIA

## Company Form

Title: **Material Handler Log**Number: **P12-FM-100-008**Owner: **Jason Bumgarner**Revision: **04**Effective Date: **07/07/2016**Page: **1 of 1**

Day Shift	MgO Supply			Acid Supply			
	#1 ( P or B ) ~ Feed :	Level :		CHECKS	07:00	11:00	15:00
	#2 ( P or B ) ~ Feed :	Level :		Car, Chocks, Sign & Lock			
	#3 ( P or B ) ~ Feed :	Level :		Tank Level graph			
	OFFLOADING -			OFFLOADING -			
		07:00	13:00	Acid at tanks			
	MgO rotary Valve check			Acid Line check			
	Clean Mixing Pot			Acid at Digesters			
	Air Compressor			Boiler Checks			
		07:00	15:00		07:00	11:00	15:00
	Main Tank Pressure			Blow Down ( yes / no )			
	Test Water Drain Valve			Pressure - Lead Boiler			
	Oil Level Check			Pressure - Back up Boiler			
	Visual leak check			Water level on #1 / #2			
				Level in Boiler Feed Tank			
	Operator - _____ Time _____						
Night Shift	MgO Supply			Acid Supply			
	#1 ( P or B ) ~ Feed :	Level :		CHECKS	19:00	23:00	03:00
	#2 ( P or B ) ~ Feed :	Level :		Car, Chocks, Sign & Lock			
	#3 ( P or B ) ~ Feed :	Level :		Tank Level graph			
	OFFLOADING -			OFFLOADING -			
		19:00	01:00	Acid at tanks			
	MgO rotary Valve check			Acid Line check			
	Clean Mixing Pot			Acid at Digesters			
	Air Compressor			Boiler Checks			
		19:00	03:00		19:00	23:00	03:00
	Main Tank Pressure			Blow Down ( yes / no )			
	Test Water Drain Valve			Pressure - Lead Boiler			
	Oil Level Check			Pressure - Back up Boiler			
Visual leak check			Water level on #1 / #3				
			Level in Boiler Feed Tank				
	Operator- _____ Time _____						
Date:	____ / ____ / ____	Operator's Initials		Production's Initials		QA's Initials	

Controlled Document

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for accuracy of the document



# GILES CHEMICAL ~ PREMIER MAGNESIA

## Company Form



Title: **Process Check Log**

Number: **P15-FM-100-055**

Owner: **Jason Bumgarner**

Revision: **02**



Effective Date: **09/16/2016**

Page: **1 of 1**

Day Shift	<b>Crystal Production</b>			<b>Environmental</b>				
		07:00	13:00		07:00	13:00		
	Gauges ( ✕/✓ )			Dust Collector (psi)				
	Dehumidifier ( ✕/✓ )			Scrubber 1 - (in H2O)				
	Chiller ( °F )			Floor Drains				
	<b>Recovery and Waste Water</b>			<b>Other</b>				
		07:00	13:00		07:00	13:00		
	Tank Check			Screener ( greased? )				
	Drain Box			Centrifuge ( wash/Check )				
Drain Screen- Digester								
Drain Screen - Dryer								
						Operator - _____ Time _____		
Lead Operators are to physically check salt condition and scale 1-5: ( 1=Damp, 2=Shiny, 3=Good, 4=Chalky, 5=Cooked )								
<b>SALT CONDITION</b>		8:00	10:00	12:00	2:00	4:00	6:00	LO Initial
	DAYS							
	NIGHTS							
Night Shift	<b>Crystal Production</b>			<b>Environmental</b>				
		19:00	1:00		19:00	1:00		
	Gauges ( ✕/✓ )			Dust Collector (psi)				
	Dehumidifier ( ✕/✓ )			Scrubber 1 - (in H2O)				
	Chiller ( °F )			Floor Drains				
	<b>Recovery and Waste Water</b>			<b>Other</b>				
		19:00	1:00		19:00	1:00		
	Tank Check			Screener ( greased? )				
	Drain Box			Centrifuge ( wash/Check )				
Drain Screen- Digester								
Drain Screen - Dryer								
						Operator - _____ Time _____		
Date:	____ / ____ / ____	Operator's Initials		Production's Initials		QA's Initials		

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for accuracy of the document

	<b>GILES CHEMICAL ~ PREMIER MAGNESIA</b>		
	<b>Company Form</b>		
	Title: <b>Pallet Count Worksheet</b>	Number: <b>P12-FM-100-010</b>	
	Owner: <b>Ashley Williams</b>	Revision: <b>3</b>	
	Effective Date: <b>5/18/2016</b>	Page: <b>1 of 1</b>	

Lot Number: \_\_\_\_\_ Date: \_\_\_\_\_, \_\_\_\_/\_\_\_\_/\_\_\_\_ Shift: D / N – L.O.: \_\_\_\_\_ S.O.: \_\_\_\_\_

ID: _____ Film Lot: _____ Film #: _____ Bin _____	ID: _____ Film Lot: _____ Film #: _____ Bin _____	ID: _____ Film Lot: _____ Film #: _____ Bin _____	ID: _____ Film Lot: _____ Film #: _____ Bin _____	ID: _____ Film Lot: _____ Film #: _____ Bin _____	ID: _____ Film Lot: _____ Film #: _____ Bin _____
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24

Total Bags	Total Bags	Total Bags	Total Bags	Total Bags	Total Bags
Total Tons	Total Tons	Total Tons	Total Tons	Total Tons	Total Tons

***GDP does not apply to this document***

**Controlled Document**

Only those quality documents viewed through the Giles Chemical electronic Documentation System are officially controlled. All other copies, whether viewed through another computer program or a printed version, are not controlled and, therefore, the Quality Unit at Giles assumes no responsibility for accuracy of the document.