
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Lot Production Record		
	Title: Lot Production Record	Number: P13-FM-100-041	
	Owner: Jason Bumgarner	Revision: 05	
	Effective Date: 07/07/2016	Page: 1 of 1	

LOT PRODUCTION RECORD

Date _____ Lot Number _____

DAY

NIGHT

Name	Initials		Name	Initials
_____	_____	Lead Operator	_____	_____
_____	_____	Warehouse Operator	_____	_____
_____	_____	Material Handler	_____	_____
_____	_____	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 Quality SCR Audit	_____
Daily Affirmation Lab Results	_____
CoA (Weekly Lot #)	_____

☐ 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 _____

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		GILES CHEMICAL ~ PREMIER MAGNESIA					
		Company Form					
		Title: Daily Production Report - Days		Number: P12-FM-100-009a			
		Owner: Jason Bumgarner		Revision: 06			
		Effective Date: 07/07/2016		Page: 1 of 1			

Date and Shift ____ / ____ / ____ Days		LO	SO	MH	AO-1	AO-2
---	--	----	----	----	------	------

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

Bags	Customer	Product Type	CO #	Amount Produced	SCR	Screened Type

Pre-printed Film Use	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						

Total Fines		Weight of each TSF -				
Total Repack Sacks Ran		CW	RP	RPS	RPM	RPO

	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 barcode numbers re-melted	# of Dust SS		# with No Tag	
	# with Tags					

Production's Initials		QA's Initials		Any Issues resulting in loss of Production need to be addressed on Production sheet and / or Shift Transition Report
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		GILES CHEMICAL ~ PREMIER MAGNESIA					
		Company Form					
		Title: Daily Production Report - Nights		Number: P12-FM-100-009b			
		Owner: Jason Bumgarner		Revision: 06			
		Effective Date: 07/07/2016		Page: 1 of 1			

Date and Shift ____ / ____ / ____ Nights		LO	SO	MH	AO-1	AO-2
---	--	----	----	----	------	------

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

Bags	Customer	Product Type	CO #	Amount Produced	SCR	Screened Type

Pre-printed Film Use	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						
	Film	Start	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #						

Total Fines		Weight of each TSF -				
Total Repack Sacks Ran		CW	RP	RPS	RPM	RPO

	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 barcode numbers re-melted	# of Dust SS		# with No Tag	
	# with Tags					

Production's Initials		QA's Initials		Any Issues resulting in loss of Production need to be addressed on Production sheet and / or Shift Transition Report
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GILES CHEMICAL ~ PREMIER MAGNESIA

Lot Production Record

Title: Digester Specific Gravity

Number: P12-FM-100-006a

Owner: Jason Bumgarner

Revision: 03

Effective Date: 12/11/14

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:		Lead's Initials		Manager's Initials		QA's Initials	
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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	
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	GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record															
	Title: Process Specific Gravity												Number: P12-FM-100-052			
	Owner: Jason Bumgarner												Revision: 0			
	Effective Date: 12/11/14												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	
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												
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DATE:		Lead's Initials		Manager's Initials		QA's Initials	
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	GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record															
	Title: Crystallizer Temperatures												Number: P12-FM-100-007			
	Owner: Jason Bumgarner												Revision: 04			
Effective Date: 12/11/14								Page: 1 of 1								

	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:					Lead's Initials		Manager's Initials		QA's Initials				

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GILES CHEMICAL ~ PREMIER MAGNESIA
Lot Production Record

Title: **Dryer Salt Temp**

Number: **P12-FM-100-005**

Owner: **Jason Bumgarner**

Revision: **03**

Effective Date: **12/11/14**

Page: **1 of 1**



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

	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
Cooler Salt Temp	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 -											

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

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

DATE:		Lead's Initials		Manager's Initials		QA's Initials	
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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		

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GILES CHEMICAL ~ PREMIER MAGNESIA

Company Form



Title: **Process Check Log**

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

Owner: **Jason Bumgarner**

Revision: **01**

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

Page: **1 of 1**

Day Shift	Crystal Production			Environmental			
		07:00	13:00		07:00	13:00	
	Gauges (✕/✓)			Dust Collector (psi)			
	Dehumidifier (✕/✓)			Scrubber 1 - (in H2O)			
	Chiller (°F)						
	Salt Condition						
	Recovery and Waste Water			Other			
		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 _____				
Night Shift	Crystal Production			Environmental			
		19:00	1:00		19:00	1:00	
	Gauges (✕/✓)			Dust Collector (psi)			
	Dehumidifier (✕/✓)			Scrubber 1 - (in H2O)			
	Chiller (°F)						
	Salt Condition						
	Recovery and Waste Water			Other			
		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	

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GILES CHEMICAL ~ PREMIER MAGNESIA

Company Form



Title: **Process Check Log**

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

Owner: **Jason Bumgarner**

Revision: **01**



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

Page: **1 of 1**

Day Shift	Crystal Production			Environmental			
		07:00	13:00		07:00	13:00	
	Gauges (✕/✓)			Dust Collector (psi)			
	Dehumidifier (✕/✓)			Scrubber 1 - (in H2O)			
	Chiller (°F)						
	Salt Condition						
	Recovery and Waste Water			Other			
		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 _____				
Night Shift	Crystal Production			Environmental			
		19:00	1:00		19:00	1:00	
	Gauges (✕/✓)			Dust Collector (psi)			
	Dehumidifier (✕/✓)			Scrubber 1 - (in H2O)			
	Chiller (°F)						
	Salt Condition						
	Recovery and Waste Water			Other			
		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	

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

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

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