
	GILES CHEMICAL ~ PREMIER MAGNESIA		
	Company Form		
	Title: Lot Production Record	Number: P13-FM-100-041	
	Owner: Jason Bumgarner	Revision: 03	
	Effective Date: 12/11/14	Page: 1 of 1	

Lot Production Record

Date: _____

Lot Number: _____

Day

Night

Lead Operator:		
Warehouse Operator:		
Material Handler:		
Salt Operator:		
Assistant Operator:		

Completed paper work for lot record

✓ or ✕

Daily Production Report (Day):	
Pallet Count – Worksheet:	
Daily Production Report (Night):	
Pallet Count – Worksheet:	

SPC Charts

Digester pH Log:	
Digester Specific Gravity Log:	
Process Specific Gravity Log:	
Crystallizer Temperature Log:	
Dryer Salt Temperature Log:	

Process Upkeep Logs



Material Handler Log:	
Acid Log (If Applicable):	
MgO Log (If Applicable):	

All daily records are to be completed, signed, dated, and stapled together with this cover sheet.
The Night shift Lead Operator is responsible for the daily lot record.

Lead Days		Lead Nights		Manager's Initials		QA's Initials	
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	GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record		
	Title: Daily Production Report - Days	Number: P12-FM-100-009a	
	Owner: Jason Bumgarner	Revision: 03	
	Effective Date: 12/11/14	Page: 1 of 1	

Date and Shift ____ / ____ / ____ DAYS		L.O.	W.O.	M.H.	S.O.	A.O.
SCR Code	Number of Bags produced	Product ID	CO	Customer	Screened yes / no	O - M - MO - F <small>Overs/Middle/No Fines/Fines</small>
<i>Total Fines</i>			<i>Weight of each TSF -</i>			
Total RePack Sacks Ran			<i>CW</i>	<i>RP</i>	<i>RPS</i>	<i>RPM</i>
Production Goal			Total Tons Produced		Liquid Loads	

	8:00	10:00	12:00	14:00	16:00	18:00	
Dust Collector							
>25							
Dehumidifier							
x/✓							
Guage Check							
x/✓							
Product							
Type							
Rate Check							
Total Tons	/	/	/	/	/	/	
Initials							

Label Control	Beginning of Shift	Beginning of shift	Produced	End of Shift	Waste	+ / -
	1					
	2					
	3					
	4					
	6					

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
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		GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record					
		Title: Daily Production Report - Nights		Number: P12-FM-100-009b			
		Owner: Jason Bumgarner		Revision: 03			
		Effective Date: 12/11/14		Page: 1 of 1			

Date and Shift ____ / ____ / ____		L.O.	W.O.	M.H.	S.O.	A.O.
NIGHTS						

SCR Code	Number of Bags produced	Product ID	CO	Customer	Screened yes / no	O - M - MO - F <small>Overs/Middle/No Fines/Fines</small>

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

Production Goal		Total Tons Produced		Liquid Loads	
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	20:00	22:00	0:00	2:00	4:00	6:00	
Dust Collector							
>25							
Dehumidifier							
x/✓							
Guage Check							
x/✓							
Product							
Type							
Rate Check							
Total Tons	/	/	/	/	/	/	
Initials							

Label Control	Beginning of Shift	Beginning of shift	Produced	End of Shift	Waste	+ / -
	1					
	2					
	3					
	4					
	6					

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
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GILES CHEMICAL ~ PREMIER MAGNESIA
Lot Production Record

Title: **Digester pH** Number: **P12-FM-100-006b**
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 - 1st Digester pH	6.9												
	6.1												
	5.3												
	4.6												
	3.8												
	3.0												
	2.3												
	1.5												
	0.7												
	Results -												

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

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



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

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

DATE:		Lead's Initials		Manager's Initials		QA's Initials	
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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 -	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													

#2 Specific Gravity

1.410														
1.404	-----													
1.398														
1.391														
1.385														
1.378														
1.372														
1.366	-----													
1.359														
Results -	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													

#3 Specific Gravity

1.410														
1.404	-----													
1.398														
1.391														
1.385														
1.378														
1.372														
1.366	-----													
1.359														
Results -	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													



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

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

DATE:		Lead's Initials		Manager'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												
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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: **Material Handler Log** Number: **P12-FM-100-008**
Owner: **Jason Bumgarner** Revision: **03**
Effective Date: **12/11/14** 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			
	OFLOADING -			OFLOADING -			
		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			
	OFLOADING -			OFLOADING -			
		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: _____ / _____ / _____	Lead's Initials		Manager's Initials		QA's Initials	
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