

Lot Production Record

Title: Lot Production Record
Owner: Jason Bumgarner
Effective Date: 07/07/2016

Number: P13-FM-100-041
Revision: 05
Page: 1 of 1



# LOT PRODUCTION RECORD

Date	Lot Num	ber	
DAY		<u>NIGHT</u>	
Wareho Mate Sal	d Operator ouse Operator rial Handler t Operator Operator II	Name	Initial
<del></del>	er work for lot	record	_
• •	٧	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 Tempature Log			
Dryer Salt Temperature Log			
Dryer/Cooler Temperature Log			
Pro	cess Upkeep Lo	ogs	
Process Check Log			
Material handler Log			
Acid Log ( If applicable )			
MgO Log ( If applicable )	-		
Qı	uality Documen	ts	
Daily Process Audit			
Daily Quality SCR Audit			
Daily Affirmation Lab Results			
CoA (Weekly Lot #)	-		
☐ Upon review of this batch record, initiation of a #(s)	CAPA, Deviation,	Non-Conformance, or OOS w	as noted.
Production Signature	Initials	Date	
Quality Signature	Initials	Date	

Controlled Document



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



			<u> </u>	dic.07/07/2010		Tuge. Tol 1		
	<b>Date ar</b> /	nd Shift /	_ Days	LO	SO	МН	AO-1	AO-2
cks	Custom	ner		oduct Type	CO#	Amount Produced	SCR	Screened Type
Super Sacks								
Supe								
	Custom	ner	Pro	oduct Type	CO#	Amount	SCR	Screened
SS	Custon			sauct Type		Produced	Ser	Туре
Bags								
	E:I		4 ~ 44	Mary D - II	Man. D - 11	Eini-L - J	Ha-1	Wasts
Jse	Film Roll Lot #	3	tart	New Roll	New Roll	Finished	Used	Waste
ilm (								
άF	Film	S	tart	New Roll	New Roll	Finished	Used	Waste
Pre-printed Film Use	Roll Lot#							
re-J								
	Film	S	tart	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #			Weight of each				
T	otal Fines			TSF -				
Тс	otal Repack			CW	RP	RPS	RPM	RPO
	Sacks Ran							
		8	3:00	10:00	12:00	14:00	16:00	18:00
Tot	tal Tons @							
S	hift Rate							
	Product	ion Goal			Total Tons Produced		Liquid Loads	
		# of I	Hoppers		# of Dust SS		# with No Tag	
	Salt Re-melt	# wit	h Tags	List of all barcode				
	Log			numbers re-melted				
Pr	roduction's		QA		Any Issues re	sulting in loss of	Production need to	be addressed
	Initials		Initi	als	on Prod	uction sheet and /	or Shift Transition	Report



Company Form

Title: Daily Production Report - Nights Number: P12-FM-100-009b
Owner: Jason Bumgarner Revision: 06





	<b>Date an</b>	nd Shift	_ Nights	LO	SO	МН	AO-1	AO-2
sks	Custom	ner		oduct Type	CO#	Amount Produced	SCR	Screened Type
r Sac								
Super Sacks								
	Custom	ner	Pro	oduct Type	CO#	Amount	SCR	Screened
S	Custon			oddet Type	20 11	Produced	Ser	Туре
Bags								
		ı						
	Film	S	tart	New Roll	New Roll	Finished	Used	Waste
Use	Roll Lot #			2107/2001				,,,,,,,,,
Pre-printed Film Use				N. D. H.	N. D. H.			W.
nted	Film Roll Lot #	S	tart	New Roll	New Roll	Finished	Used	Waste
e-pri								
Pr	Film	S	tart	New Roll	New Roll	Finished	Used	Waste
	Roll Lot#							
Т	Total Fines			Weight of each TSF -				
Т/	otal Repack			CW	RP	RPS	RPM	RPO
	Sacks Ran							
		8	3:00	10:00	12:00	14:00	16:00	18:00
	tal Tons @							
S	Shift Rate							
	Product	ion Goal			Total Tons Produced		Liquid Loads	
	a 1:	# of I	Hoppers		# of Dust SS		# with No Tag	
	Salt Re-melt	# wit	h Tags	List of all barcode				
	Log			numbers re-melted				
Pı	roduction's		QA				Production need to	
	Initials		Initi	ials	on Produ	uction sheet and /	or Shift Transition	n Keport



### Lot Production Record

Title: Digester Specific Gravity Number: P12-FM-100-006a Owner: Jason Bumgarner

Effective Date: 12/11/14

Revision: 03 Page: 1 of 1



	1 410	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00
vity	1.410 1.404												
Gra	1 301												
#1 Specific Gravity	1 395												
Spec	1 372												
#1.5	1.366 1.359												
_	Results -												
'ity	1.404												
#2 Specific Gravity	1.398												
ific (	1 205												
Spec	1.372												
#2.5	1.366 1.359												
_	Results -												
/ity	1.404												
#3 Specific Gravity	1.398												
ific	1 385												
Spec	1.372												
#3 8	1.366 1.359												
, r	Results -												
Time	Xesuits -	Action	taken w	han out	of limits		Time		Action	takon wi	ien out o	flimits	
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_:							_:						
_:							_:						
	Hopper ull - ×/√												
ML S	p.Gr.												
	27-1.32 Tomp												
Mud	Temp 60-80C												
Mud	Sp.Gr. 38-1.41												
Brine	Sp.Gr.												
1	37-1.40												
	tials					ad's	<u> </u>	Mon	ager's		0	Λ'ς Ι	
DA	ATE:					au s tials			agers tials			A's ials	



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



	6.9	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00
	6.1												
- 1st Digester pH	5.3 4.6												
ster	3.8 3.0												
)ige	2.3 1.5												
st D	0.7												
- 1	Probe-												
#1													
	Paper -												
	6.9 6.1												
H	5.3												
er p	4.6 3.8												
gest	3.0 2.3												
Dig	1.5												
1st	0.7												
#2 - 1st Digester pH	Probe-												
"-	Paper -												
	6.9												
	6.1 5.3												
; bE	4.6												
ste	3.8 3.0												
)i ge	2.3 1.5												
#3 - 1st Digester pH	0.7		•										
3 - 1	Probe-												
#	Paper -												
<b>70</b> :	- upor						/D'			, ,			
Time ·		Action	taken wh	en out oj	limits		Time .		Action t	aken wn	en out of	umits	
-:-							· -·-						
							:- 						
<u>-</u>	******												
Reco	O/P												
Pots	Clean												
Cina	0/P												
Circ	Loops >40gpm												
MgO	Feed												
	gpm												
ML I	Feed 0-35gpm												
	itials												
	-				-	, .		. [		_			
l DA	ATE:				Pr	oduction	a's Initia	ls		Q.	A's Initia	ls	



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



Mud Density	1.398 1.391 1.385 1.378 1.372			12:00						0:00	2:00	4:00	6:00
Brine Density	1.404 1.398 1.391 1.385 1.378 1.372												
Mother Liquor Densit	1.320 1.310 1.300 1.290 1.280 1.270												
<i>Time</i>		Action	taken wi	hen out c	of limits		Time _:		Action 1	taken wh	ien out oj	flimits	
Solids	1 2 3 4 5					6.4							
F!	C a 14	1	спеск у	es or no	) II all o	i the ite	ins belo	w are o	perating	correct	11 <b>y</b>		
	e Salt												
	Water iller												
	tials												
	ATE:				Lea			Mana	-		QA's	Initials	
DΕ	X I L2.				Init	ials		Init	ials		QA S	muais	

#### GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record Title: Crystallizer Temperature Number: P12-FM-100-007 Owner: Jason Bumgarner Revision: 04 Page: 1 of 1 Effective Date: 12/11/14 3:00 7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 23:00 1:00 5:00 32.88 32.16 1 Crystallizer 31.44 30.72 30.00 29.28 28.56 27.84 27.12 Results-32.88 32.16 2 Crystallizer 31.44 Temp 30.72 30.00 29.28 28.56 27.84 27.12 Results-32.88 32.16 3 Crystallizer 31.44 30.72 30.00 29.28 28.56 27.84 27.12 Results-32.88 32.16 4 Crystallizer 31.44 30.72 30.00 29.28 28.56 27.84 27.12 Results-32.88 32.16 5 Crystallizer 31.44 30.72 30.00 29.28 28.56 27.84 27.12 Results-Action taken when out of limits Action taken when out of limits Time Time **Initials** Lead s Manager's QA's DATE:

**Initials** 



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



				Bate. 12/11				ruge. I			<u> </u>		
		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
р	37.9 37.2												
Dryer Salt Temp	36.4												
lt T	35.7												
Sa	35.0												
yer	33.6												
Ď													
D	32.1 eading -					1	1	1				1	
IN	eaumg -					<u> </u>						<u> </u>	
	27.0	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	1:00	3:00	5:00
du	27.2												
Cooler Salt Temp	26.4												
alt '	25.7												
r S	24.3												
 oole	23.6												
ŭ	22.8												
R	eading -												
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ght	2011												
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2000-lb Weight Check													
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×	50.85												
]hec													
ght Check	50.35												
	50.18												
50-lb Wei	10.85												
50-													
,	49.51 Results -						1	1					
Time	icsuits -		n takan 1	vhen out o	of limits		Time		Action	ı taken w	han out a	of limits	
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_:	-												
<u>:</u>		1	T	T			: <u></u>	1			T		
Ini	tials												
D 4	ATE:					ad's		Manage	er's Initials	-		A's	
DF	AIL.				Ini	tials	1	ivianage	or a minual	3	In	itials	



**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



	Mg(	O Supply			Acid Su	pply	
	#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			
ft	MgO rotary Valve check			Acid Line check			
Shį	Clean Mixing Pot			Acid at Digesters			
Day Shift	Air C	ompressor			Boiler Cl	necks	
		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			
				1	C	perator	_Time
	Mg(	O Supply			Acid Su	pply	
	#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			
ift	MgO rotary Valve check			Acid Line check			
t Shift	Clean Mixing Pot			Acid at Digesters			
Night	Air C	ompressor			Boiler Cl	necks	
V		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			
					0	perator	Time
Date:	//	Operator's Initials		Production's Initials		QA's Initials	



**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



	Crystal	Production			Envi	ronmental	
		07:00	13:00			07:00	13:00
	Gauges (×/√)			Dust Colle	ector (psi)		
	Dehumidifier ( <b>x</b> /√ )			Scrubber 1	- (in H20)		
	Chiller (°F)						
ift	Salt Condition						
Day Shift			ı	1			
Da	Recovery an	d Waste Water	•		(	Other	
		07:00	13:00			07:00	13:00
	Tank Check			Screener (	greased?)		
	Drain Box			Centrifuge ( v	vash/Check)		
	Drain Screen- Digester						
	Drain Screen - Dryer						
					(	Operator	
	Crystal	Production			Envi	ronmental	
		19:00	1:00			19:00	1:00
	Gauges ( ×/√)			Dust Colle	ector (psi)		
	Dehumidifier ( ×/√ )			Scrubber 1	- (in H20)		
	Chiller (°F)						
ifi	Salt Condition						
t Sh	_						
Night Shift	Recovery an	d Waste Water	:			Other	
		19:00	1:00			19:00	1:00
	Tank Check			Screener (	greased?)		
	Drain Box			Centrifuge ( v	vash/Check)		
	Drain Screen- Digester						
	Drain Screen - Dryer						
					(	Operator	
						1	
Date:	//	Operator's Initials		Production's Initials		QA's Initials	



**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



	Crystal	Production			Envi	ronmental	
		07:00	13:00			07:00	13:00
	Gauges (×/√)			Dust Colle	ector (psi)		
	Dehumidifier ( <b>x</b> /√ )			Scrubber 1	- (in H20)		
	Chiller (°F)						
ift	Salt Condition						
Day Shift			ı	1			
Da	Recovery an	d Waste Water	•		(	Other	
		07:00	13:00			07:00	13:00
	Tank Check			Screener (	greased?)		
	Drain Box			Centrifuge ( v	vash/Check)		
	Drain Screen- Digester						
	Drain Screen - Dryer						
					(	Operator	
	Crystal	Production			Envi	ronmental	
		19:00	1:00			19:00	1:00
	Gauges ( ×/√)			Dust Colle	ector (psi)		
	Dehumidifier ( ×/√ )			Scrubber 1	- (in H20)		
	Chiller (°F)						
ifi	Salt Condition						
t Sh	_						
Night Shift	Recovery an	d Waste Water	:			Other	
		19:00	1:00			19:00	1:00
	Tank Check			Screener (	greased?)		
	Drain Box			Centrifuge ( v	vash/Check)		
	Drain Screen- Digester						
	Drain Screen - Dryer						
					(	Operator	
						1	
Date:	//	Operator's Initials		Production's Initials		QA's Initials	



23

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23

24

# 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



L	ot Number	r:		Date:			,/_		_/	Shift	t: D	/ N	– L.O.:		_ S.C	).:
F	ID: Film Lot: Film #: Bin		Film I Film #	.ot:	F	ilm Lo ilm #:_	ot:	Fil Fi	m Lot: lm #:		Fi Fi	ilm Lo lm #:_	t:	F	ilm Lo ilm #:_	t:
	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	
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	12		12			12			12			12			12	
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	20		20			20			20			20			20	
	21		21			21			21			21			21	
	22		22			22			22			22			22	

| Total Bags |
|------------|------------|------------|------------|------------|------------|
|            |            |            |            |            |            |
| Total Tons |
|            |            |            |            |            |            |

23

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23

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## GDP does not apply to this document

### Controlled Document