

ot Production Record

Number: P13-FM-100-041





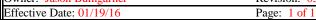
# LOT PRODUCTION RECORD

Date					
Lot Number					
<del>-</del>	DA	ΑY		NIGHT	
Lead Operator					
Warehouse Operator					
Material Handler					
Salt Operator					
Assistant Operator II					
	Completed	paper work	for lot reco	rd or ×	
Daily Producti	on Report (	Day )	<b>V</b>	01 3	
	ount - Work	-		_	
Daily Productio					
· · · · · · · · · · · · · · · · · · ·	ount - Work	•			
		^4 SP	C Charts		
	Digester p	H log			
Digester Sp	ecific Gravit	y Log			
Process Sp	ecific Gravit	y Log			
Crystalliz	zer Tempatuı	re Log			
Dryer Sal	t Temperatui	e Log			
		^3 Process	Upkeep Log	S	
P	rocess Checl	k Log			
Ma	terial handle	r Log			
Acid Lo	og ( If applic	able)			
MgO Lo	og ( If applic	able)			
A 11 . J - 11		1 المستاد المسلما		40 004100 00414	:.
All daily records a cover sheet. The	-	-	-	•	
cover sheet. The	1.15111 511111 120	operator is i		100 10001	
Lead Lea Days Nigh		Manager's Initials		QA's Initials	



Company Form

Title: Daily Production Report - Days Number: P12-FM-100-009a
Owner: Jason Bumgarner Revision: 05





			Bireeti (e B	ate. 01/19/10		rage. 1 of 1		
_	<b>Date an</b>		Days	LO	SO	МН	AO-1	AO-2
cks	Custom			oduct Type	CO#	Amount Produced	SCR	Screened Type
Super Sacks								
Suj						Amount		Screened
Si	Custom	ner	Pro	oduct Type	CO#	Produced	SCR	Type
Bags								
se	Film	Si	tart	New Roll	New Roll	Finished	Used	Waste
lm U	Roll Lot #							
ed Fi	Film	Start		New Roll	New Roll	Finished	Used	Waste
Pre-printed Film Use	Roll Lot #							
Pre	Film	Si	tart	New Roll	New Roll	Finished	Used	Waste
	Roll Lot #							
Т	Total Fines			Weight of each TSF -				
	otal Repack Sacks Ran			CW	RP	RPS	RPM	RPO
<i>T</i> -	4 1 T (A)	8	:00	10:00	12:00	14:00	16:00	18:00
	tal Tons @ lift Rate							
	Product	ion Goal			Total Tons Produced		Liquid Loads	<b>I</b>
	a v	# of I	Hoppers		# of Dust SS		# with No Tag	
	Salt Re-melt	# wit	h Tags	List of all barcode				
	Log			numbers re-melted				
N	Manager's Initials		Q <i>A</i> Initi		-	_	Production need to or Shift Transition	
	muais		111111	ais	on Produ	action sheet and	oi Siiit Transitioi	i Kepoit



Company Form

Title: Daily Production Report - Days Number: P12-FM-100-009b
Owner: Jason Bumgarner Revision: 05





						rage. Torr		
_	<b>Date a</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								
<b>J</b> 1	C		D.	1 . (T	CO #	Amount	CCD	Screened
S	Custom	ner	Pro	oduct Type	CO#	Produced	SCR	Type
Bags								
lse	Film Roll Lot #	S	tart	New Roll	New Roll	Finished	Used	Waste
lm U	Kott Lot #							
ed Fi	Film	Start		New Roll	New Roll	Finished	Used	Waste
orinte	Roll Lot #							
Pre-printed Film Use								
	Film Roll Lot #	S	tart	New Roll	New Roll	Finished	Used	Waste
T	otal Fines			Weight of each TSF -				
T	. 1D 1			CW	RP	RPS	RPM	RPO
	otal Repack Sacks Ran							
		20	0:00	22:00	0:00	2:00	4:00	6:00
	tal Tons @							
3	ift Rate				Total Tons		Liquid	
	Product	ion Goal			Produced		Loads	
	Colt	# of I	Hoppers		# of Dust SS		# with No Tag	
	Salt Re-melt	# wit	h Tags	List of all barcode				
	Log			numbers re-melted				
N	Manager's		QA		-	_	Production need to	
	Initials		Initi	als	on Produ	uction sheet and	or Shift Transition	Report



### 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 -												
											l		
'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: 04
Effective Date: 09/14/15 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
т:	6.1												
er pl	5.3 4.6												
#1 - 1st Digester pH	3.8 3.0												
Dig	2.3 1.5												
- 1st	0.7												
#1	Probe-												
	Paper -												
	6.9												
Hd	6.1 5.3												
ster	4.6 3.8												
)ige	3.0 2.3												
1st Digester pH	1.5 0.7												
#2 -	Probe-												
#	Paper -												
	6.9												· · · · · · · · · · · · · · · · · · ·
Н	6.1 5.3												:
er p	4.6 3.8												
gest	3.0 2.3												
#3 - 1st Digester pH	1.5 0.7												
- 1													
#3	Probe-												
Tr.	Paper -	4 .:	. 1 1		C 1:		T.		<u> </u>	7 7		C 1: :	
Time _:_		Action	taken wh	en out oj	t limits		Time .		Action i	aken wn	en out oj	limits	
							<del>`</del> :						
							·						
Reco	very												
	×/√ Clean												
	<b>x</b> /√												
Circ	Loops >40gpm												
MgC	Feed												
	gpm												
ML 1	1-35gpm	1											
	itials												
D	ATE:				Lea Init			Mana	ager's rials		Q <i>I</i> Init		



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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Š													
Che	2017												
ght	2011												
Wei	2004												
-lb ,	1991												
2000-lb Weight Check													
	1977 Results -					T		ī		1		T	
\ \	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	
· ·									Асиог	i iuneii W	пен Ош С	y unus	
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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	



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



	MgC	) Supply			Acid Supp	ly	
	#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			
ft	MgO rotary Valve check			Acid Line check			
ShIft	Clean Mixing Pot			Acid at Digesters			
a y	Air Co	ompressor			Boiler Chec	olze	
Da	All Co	07:00	15:00		07:00	11:00	15:00
	Main Tank Pressure	07:00	15:00	Play Day (vas / na)	07:00	11:00	15:00
				Blow Down (yes/no)  Pressure - Lead Boiler			
	Test Water Drain Valve						
	Oil Level Check  Visual leak check			Pressure - Back up Boiler  Water level on #1 / #2			
	visuai leak check			Level in Boiler Feed Tank			
				Level in Boller Feed Tank	Opera	ntor	Time
	Mσ(	) Supply			Acid Supp	lv	
	#1 ( P or B) ~ Feed :			CHECKS	19:00	23:00	03:00
	#2 ( P or B) ~ Feed :			Car, Chocks, Sign & Lock	17.00	23.00	03.00
	#3 ( P or B) ~ Feed :			Tank Level graph			
	OFLOADING -			OFLOADING -		1	
		19:00	01:00	Acid at tanks			
ShIft	MgO rotary Valve check			Acid Line check			
Sh	Clean Mixing Pot			Acid at Digesters			
h t	Air Co	ompressor			Boiler Chec	eks	
NIgi		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			
				•	Opera	ntor	Time
DATE:				Manager's		QA's	



# GILES CHEMICAL ~ PREMIER MAGNESIA Lot Production Record

e: Process Check Log Number: P15-FM-100-055

Owner: Jason Bumgarner Revision: 0
Effective Date: 07/21/15 Page: 1 of 1



	Crystal I	Production		Envi	ronmental	
		07:00	13:00		07:00	13:00
	Gauges ( ×/√ )			Dust Collector (psi)		
	Dehumidifier ( ×/√ )			Scrubber 1 - (in H20)		
	Chiller (°F)			Scrubber 2 - (in H20)		
hIft	Salt Condition					
S h I						
a y				<u> </u>		
Da	Recovery an	d Waste Water	r		Other	
		07:00	13:00		07:00	13:00
	Tank Check			Screener ( greased? )		
	Drain Box			Centrifuge ( wash/Check )		
	Drain Screen- Digester					
	Drain Screen - Dryer				0	T:
				1	Operator	Time
	Crystal I	Production		Envi	ronmental	
		19:00	1:00		19:00	1:00
	Gauges ( x/√)			Dust Collector (psi)		
	Dehumidifier ( x/√ )			Scrubber 1 - (in H20)		
t	Chiller (°F)			Scrubber 2 - (in H20)		
hIft	Salt Condition					
S						
g h t	Recovery an	d Waste Water	ŗ		Other	
$NI_{\delta}$		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
)ATE:	//	Lead's Initials		Manager's Initials		



**Company Form** 

Title: Daily Dryer/Cooler Temperature Log Number: P15-FM-200-056

Owner: Ashley Williams Revision: 01
Effective Date: 09/23/2015 Page: 1 of 1



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From:	at 7:00am	To:	at 6:30am
PIOIII.	at 7.00am	10.	at 0.00am

	Dryer	Cooler		Dryer	Cooler
Time	Temp	Temp	Time	Temp	Temp
7:00			19:00		
7:30			19:30		
8:00			20:00		
8:30			20:30		
9:00			21:00		
9:30			21:30		
10:00			22:00		
10:30			22:30		
11:00			23:00		
11:30			23:30		
12:00			0:00		
12:30			0:30		
13:00			1:00		
13:30			1:30		
14:00			2:00		
14:30			2:30		
15:00			3:00		
15:30			3:30		
16:00			4:00		
16:30			4:30		
17:00			5:00		
17:30			5:30		
18:00			6:00		
18:30			6:30		

Manager Signature:	Date:
Quality Signature:	Date: