

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

	Dat	e:					
	Lot Numbe						
			Day			Night	
	Lead Operator:						
War	ehouse Operator:						
N	Material Handler:						
	Salt Operator:						
As	ssistant Operator:						
		Completed p	aper w	ork for lot	record		
			_		✓ or ×		
		oduction Report (D	-				
		let Count – Worksl					
		luction Report (Nig let Count – Worksl	_				
	Fall	iet Count – worksi	ieet.				
			SPC C	harts			
		Digester pH l	Log:				
	Digester	Specific Gravity l	Log:				
		Specific Gravity l					
	•	lizer Temperature l	•				
	Dryer	Salt Temperature 1	Log:				
		Proc	ess Up	keep Logs			
		Material Handler l	Log:				
	Ac	id Log (If Applical	_				
	Mg	O Log (If Applical	ole):				
All	daily records are	to be completed, si	gned, da	ited, and stapl	ed together w	vith this cover sh	eet.
	The Nig	ht shift Lead Opera	ator is re	esponsible for	the daily lot	record.	
Lead		Lead		Manager's		QA's	
Days		Nights		Initials		Initials	



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 an		DAYS	L.	O.	W	.O.	M.	Н.	S.	О.	A.0	О.
SCR Code		ber of roduced	Pro	duct D	C	0		Customer			eened / no	O - M - Overs/Middle/N	
Total Fi	ines			Weight TS									
Total Re				С	W	R	PP .	RF	PS	RF	PM	RP	0
Sacks F		on Goal					Tons				ιuid ads		
		8:0	00	10	:00	12	:00	14:	:00	16	:00	18:0	0
Dust Coll Dehumid	>25 ifier ×/<												
Guage Ch	neck ×/√												
Product	Туре												
Rate Chec	ck al Tons	/	1		/		/	/	1	,	/	/	
Initia													
ntrol	Beg 1 2	inning of	Shift	Beg	inning of	shift	Prod	luced	End o	f Shift	Wa	aste	+/-
Label Control	3												
Lat	6												
Manager's	Initials		Q. Init	A's ials		Any		sulting in uction she				be addres n Report	sed

Controlled Document



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 an		NIGHTS	L.	O.	W	.O.	M.	H.	S.	O.		A.O.
SCR Code		nber of produced	Pro		С	0		Customer		Scre yes	ened / no		- MO - F
Total F	ines			Weight TS	of each F -								
Total Re				С	W	R	PP	RF	PS	RF	PM	I	RPO
Sacks l	Ran					_							
P	roducti	on Goal					Tons luced			Liq Los			
		20:0	00	22	:00	0:	00	2:0	00	4:	00	6	:00
Dust Coll Dehumid	>25												
Guage Cl	heck ×/√												
Product	Туре												
Rate Che		1			/		/	/	1		/		/
Initia													
	Beg 1	ginning of	Shift	Beg	inning of	shift	Prod	luced	End o	f Shift	W	aste	+/-
Label Control	2												
sel Co	3												
Lak	4												
	6												
Manager's	Initials		Q/ Init			Any		sulting in uction she					

Controlled Document



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



	<i>.</i>	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00
r pH	6.9 6.1												
- 1st Digester pH	5.3 4.6												
t Dig	3.8 3.0												
	2.3 1.5												
#1	0.7												
R	Results -				<u> </u>	<u></u>							
Hc	6.9 6.1												
1st Digester pH	5.3												
Dige.	4.6 3.8												
	3.0 2.3												
#2 -	1.5 0.7												
R	Results -												
	6.9												
1st Digester pH	6.1 5.3												
igestí	4.6												
st Dj	3.8												
#3 - 1	2.3 1.5												
	0.7												
	Results -		<u></u>			<u> </u>							
Time :		Action	taken wi	hen out o	of limits		Time :		Action 1	taken wh	ien out oj	^f limits	
_:							:						
_:		1					_:	1	1	1	1		
Recov	very ×/√	 											
Pots C	Clean												
Circ I	×/√ Loops -40gpm												
> MgO	40gpm					<u></u>							
	gpm					<u> </u>							
ML F	eed -35gpm] 											
	tials												
DA	TE:					ad's tials			ager's tials		Q <i>F</i> Init		



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



	1 410		10:00	12:00	14:00	16:00	18:00	20:00	22:00	0:00	2:00	4:00	6:00
'ity	1.410 1.404												
Jrav	1.398												
#1 Specific Gravity													
ecif	1.378												
l Sp													
#	1.359			T	T	1	•	T	T	1	•		T 1
F	Results -												
#2 Specific Gravity	1.404												
Ğ	1.391												
zific	1.385												
Spe	1.372												
#2 \$	1.366 1.359												
,													
ŀ	Results -												
ity	1.404												
Specific Gravity	1 200												
ic (1.391												
ecif	1.378												
Sp	1.372 1.366												
#3	1.359						-						
F	Results -												
Time		Action	taken w	hen out o	of limits		Time		Action	taken wh	ien out o	f limits	
_:							_:						
_:							_:						
_:							_:						
Day I	Hopper												
$\frac{ft}{MLS}$	ull - ×/√												
1.2	27-1.32												
Mud	Temp 60-80C												
Mud	Sp.Gr.												
	38-1.41 Sp.Gr.												
	37-1.40												
Ini	tials												
DA	ATE:					ad's tials			ager's tials		Q/ Init	A's	



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		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											
<i>Time</i>			hen out c	_		Time .:		Action	taken wh	nen out o	f limits	
Solids	1 2 3 4 5											
		Check y	es or no	if all o	f the ite	ms belo	w are o	perating	correct	ily		
	Salt											
•	Water											
	iller											
Init	tials			l o	ad's		Mana	agor's				
DA	TE:				ials		Mana Init	igers ials		QA's	Initials	

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
þ	37.9 37.2												
Dryer Salt Temp	36.4												
lt T	35.7												
Sa	35.0												
yer	33.6												
Ď													
D	32.1 teading -					1	1	1				1	
N	eading -					<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 22.1												
R	eading -												
							ı	ı				<u> </u>	
ck													
Che	2024												
ght	2011												
Vei	2004												
-lb													
2000-lb Weight Check	1984												
	1977		1			1	1	1	1	<u> </u>	1		1
ŀ	Results -												
ķ	50.85	-											
Thec													
ght Check	50.35												
	50.18												
50-lb Wei	10.85												
50-1	49.68												
,	49.51			T 1			1	1	1				
	Results -		n talear -	whom and =	of limits	<u> </u>	Time	<u> </u>	1 1	ı taken w	han aut :	f lineita	
Time		ACIIC	т іакеп У	vhen out o	y umuts		i iiile		ACHOI	ı шкеп W	пен ош С	y umuts	
							<u> </u>						
-:							:						
_:		•		1			_:	ī					1
Ini	itials												
D.	ATE:					ad's		Monoco	er's Initials	9	Q	A's	
DF	AIE.				Ini	tials		ivialiage	ti s illitials)	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



	Mg() 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 C	ompressor			Boiler Chec	olza	
Da	All Co		15.00				15.00
		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			T:
				<u> </u>		ator	Time
	Mg() Supply			Acid Supp	ly	
	#1 (Dor D) Food	Y 1		CITECIA	10.00	22.00	03:00
	#1 (P or B) ~ Feed :			CHECKS	19:00	23:00	03.00
	#2 (P or B) ~ Feed :			Car, Chocks, Sign & Lock	19:00	23:00	03.00
		Level :			19:00	23:00	03.00
	#2 (P or B) ~ Feed :	Level :		Car, Chocks, Sign & Lock	19:00	23:00	03.00
t	#2 (P or B) ~ Feed :	Level :		Car, Chocks, Sign & Lock Tank Level graph	19:00	23:00	03.00
h I f t	#2 (P or B) ~ Feed :	Level : Level :		Car, Chocks, Sign & Lock Tank Level graph OFLOADING -	19:00	23:00	03.00
ShIft	#2 (P or B) ~ Feed :	Level : Level :		Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks	19:00	23:00	03.00
h t	#2 (P or B) ~ Feed: #3 (P or B) ~ Feed: OFLOADING - MgO rotary Valve check Clean Mixing Pot	Level : Level :		Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check	Boiler Chec		03.00
	#2 (P or B) ~ Feed: #3 (P or B) ~ Feed: OFLOADING - MgO rotary Valve check Clean Mixing Pot	Level :		Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check			03:00
g h t	#2 (P or B) ~ Feed: #3 (P or B) ~ Feed: OFLOADING - MgO rotary Valve check Clean Mixing Pot	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check	Boiler Chec	cks	
g h t	#2 (P or B) ~ Feed :	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check Acid at Digesters	Boiler Chec	cks	
g h t	#2 (P or B) ~ Feed :	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check Acid at Digesters Blow Down (yes/no)	Boiler Chec	cks	
g h t	#2 (P or B) ~ Feed : #3 (P or B) ~ Feed : OFLOADING - MgO rotary Valve check Clean Mixing Pot Air Co Main Tank Pressure Test Water Drain Valve	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check Acid at Digesters Blow Down (yes / no) Pressure - Lead Boiler	Boiler Chec	cks	
g h t	#2 (P or B) ~ Feed : #3 (P or B) ~ Feed : OFLOADING - MgO rotary Valve check Clean Mixing Pot Air Co Main Tank Pressure Test Water Drain Valve Oil Level Check	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check Acid at Digesters Blow Down (yes / no) Pressure - Lead Boiler Pressure - Back up Boiler	Boiler Chec	cks	
g h t	#2 (P or B) ~ Feed : #3 (P or B) ~ Feed : OFLOADING - MgO rotary Valve check Clean Mixing Pot Air Co Main Tank Pressure Test Water Drain Valve Oil Level Check	Level: Level: 19:00 ompressor	01:00	Car, Chocks, Sign & Lock Tank Level graph OFLOADING - Acid at tanks Acid Line check Acid at Digesters Blow Down (yes / no) Pressure - Lead Boiler Pressure - Back up Boiler Water level on #1 / #3	Boiler Chec	23:00	