

May 9, 2022

#### **Certified Mail**

Mr. Mark Cuilla Chief, Permitting Section 1641 Mail Service Center Raleigh, NC 27699-1641 Received

MAY 1 2 2022

Air Parmits Section

Re: Title V Renewal/Application 21C Addendum Submittal

3M Pittsboro - Industrial Mineral Products

Air Permit ID No. 1900104

Dear Mr. Cuilla:

3M Company (3M) owns and operates a plant located in Moncure, NC (3M Pittsboro Plant; Facility ID #1900104). The Pittsboro Plant currently operates under Title V operation permit number 09006T06, issued by the North Carolina Department of Environmental Quality (NCDEQ) on April 6, 2016.

Please find enclosed three copies of a combined addendum submittal for 3M Pittsboro's Title V renewal (Draft Permit T09) and most recent minor modification (Application No. 21C). A combined addendum has been submitted because Division of Air Quality (DAQ) has rolled its review of Application No. 21C into the Title V renewal. Per a phone call with Ms. Judy Lee on 4/27/2022, it was recommended by Ms. Lee to submit three copies of this addendum to the Central Office. The Central Office will then forward one copy to the Regional Office as the Central team has been working directly with 3M and has clarity for why an addendum is necessary.

3M and DAQ met via Teams meeting on 4/21/2022. As a result of the meeting, 3M was to provide additional permitting forms and supporting documentation to formally incorporate the new Enclosed East and West Pugmill System ("the pugmill") as an emissions source and remove all of the proposed "wet suppression" requirements for the pugmill from the draft Title V renewal. The pugmill meets applicable emission limits without emissions control, and "wet suppression" is not required as emissions control for the pugmill by either state or federal regulations. Updating potential to emit to include uncontrolled pugmill values does not cause a change in permitting status (e.g., from Title V to PSD) or otherwise impact regulatory applicability. Removing "wet suppression" requirements related to the pugmill inherently requires "water carryover from pugmili" to be removed from the control device descriptions for the Enclosed Waste Stacker Conveyor No. 25 (ID: F72) and Waste Stacker Conveyor No. 25A (ES25A) as these are affected downstream equipment. Therefore, 3M has provided all the necessary application forms to formalize these changes and has included them within Appendix A of this submittal. Additionally, as requested by Ms. Lee, 3M has provided an updated Form A, E4, and E5 signed by the responsible official to satisfy certification requirements of this entire submittal package. Emission calculations and a process flow diagram for the pugmill and conveyors can be referenced in Appendix B. Additional supporting narrative relating to 3M's

position to remove all proposed "wet suppression" requirements for the pugmill from the draft Title V renewal can be referenced in Appendix C. Per Ms. Lee's request, 3M will also provide 3M Pittsboro's pugmill manual via email due to its large document size.

3M has also provided an addendum to resolve issues directly related to Application No. 21C. Applicable forms have been updated and provided to address various inconsistencies noted in previous correspondence with DAQ. These forms have been separated from the forms related to the pugmill for clarity and organizational purposes considering that these are separate but parallel issues. These forms can be referenced in Appendix D. Please note, Forms A, E4, and E5 are located in Appendix A is intended to be inclusive for this entire package, hence, why these forms have not been included again within Appendix D. During this review it was discovered by 3M that the original application identified the incorrect crusher that is to be replaced with this 21C permit action. The original application referenced G Crusher No. 1 (ES2426.2) being replaced. The correct crusher that will be replaced is G Crusher No. 2 (ES2729.2). 3M has provided updated forms to clarify this discrepancy. C1 forms have also been provided and should clarify the discrepancies noted regarding CAM applicability. 3M has also provided additional documentation to support its CAM assessment within Appendix E. Calculations applicable to these application forms can be referenced in Appendix F. Elevator 12 is listed as an insignificant activity and not subject to NSPS OOO because it moves dust from baghouses in the coloring portion of plant; therefore, it is not considered an affected facility in a nonmetallic mineral processing plant and not subject to NSPS OOO.

In Appendix G, 3M has provided a narrative to support its onsite processes and systems related to DAHS.

3M thanks the DAQ again for its time to meet and discuss the Title V renewal, and we look forward to any future discussions as needed. Please contact me if you have any additional questions or need any additional information at rnavis@mmm.com or at 651-230-4776.

Sincerely,

Ryan Navis, P.E.

Advanced Environmental Engineer

(rnavis@mmm.com)

cc (electronically)

Judy Lee, Division of Air Quality Permitting Section (judy.lee@ncdenr.gov)

Blake Arnett, Plant Director (blarnett@mmm.com)

# Title V Renewal/Application 21C Addendum



3M Pittsboro

Moncure, North Carolina

Facility ID: 1900104

May 2022

#### **APPENDICES**

Appendix A: Pugmill, Conveyor 25, & Conveyor 25A Application Forms

Appendix B: Pugmill, Conveyor 25, & Conveyor 25A Emission Calculations and Process Flow

Diagram

Appendix C: Pugmill Narrative

Appendix D: 21C Application Forms

Appendix E: CAM Assessment

Appendix F: 21C Application Emission Calculations and Process Flow Diagram

Appendix G: DAHS Narrative

# Appendix A: Pugmill, Conveyor 25, & Conveyor 25A Application Forms

#### **FORM A**

#### **GENERAL FACILITY INFORMATION**

REVISED 09/22/16				cation for Air Permit to Cons			A
	NOT	E-APPLICATION	ON WILL NOT BE PR	OCESSED WITHOUT T	HE FOLLOWING:		
Local Zoning C	Consistency Determination only)	nation	Appropriate Number of	f Copies of Application	Application Fe	ee (please check one	option below)
Responsible O	fficial/Authorized Co	ntact Signature	P.E. Seal (if required)		Not Required	☐ePayment ☐	Check Enclosed
			GENERAL IN	FORMATION			
egal Corporate/Owner Name	: 3M Comp	pany					
Site Name:		mpany - Pittsboro					
Site Address (911 Address) Lin		hway 87 South					
Site Address Line 2:							
Dity: Moneure				State: North (	Carolina		
Zip Code: 27559				County: Chatha			
	County Address of		CONTACT IN	FORMATION			
Responsible Official/Authorize	ed Contact:			Invoice Contact:			
Name/Title: Blake Amett, F					Arnett, Plant Director		
Mailing Address Line 1: 4191					4191 Highway 87 South	1	
Mailing Address Line 2:	ragimay or code			Mailing Address Line 2:			
Dity: Monoure	State: NC	Zip Code:	27559	City: Moncure	State: NC	Zip Code:	27559
	(919) 642-4011	Fax No.:	(919) 642-4017		(919) 642-4011	1	642-4017
	(313) 042-4011	, ax ivo	(818) 012-1017	Secondary Phone No.:	(010) 042 4011	Tunitus (010)	012 1011
Secondary Phone No.: Email Address: blamett@men	n com	1		Email Address: biarnet	@mmm.com		
	II.COIII			Permit/Technical Com			
Facility/Inspection Contact: Name/Title: Blake Arnett, F	Stant Discotor			-	Navis, Advanced Environi	mental Engineer	
					3M Company , 3M Cen		
Mailing Address Line 1: 4191	riighway 67 30utri					ntot	
Mailing Address Line 2:	Obstant NO	7:- 0	27550		State: MN	Zip Code:	55144
City: Moncure	State: NC	Zìp Cod		City: St. Paul		Fax No.:	50 144
	(919) 642-4011	Fax No.:	(919) 642-4017		(651) 230-4776	Fax No.:	
Secondary Phone No.:	A CONTRACTOR OF THE CONTRACTOR			Secondary Phone No.:		-	
Email Address: blarnett@mmr	n.com	1-6-	ADDI ICATION IS	Email Address: (navis) BEING MADE FOR	2/mmm.com		
	Nu. del	T N - 116 - 11			[] Renew	ral Non-Title V	
☐ New Non-permitted Fac	•		on of Facility (permitted)	☐ Renewal Title V ☑ Renewal with M		al Non-Tue v	
Name Change	Ownership Change		ative Amendment	R APPLICATION (Chec		100	
General	T	Small		Prohibitory Small	Synthetic Minor	₹ Title	v
G Goliciai		Siliali		ite) INFORMATION		- 100	
Describe nature of (plant site) of Manufacture of roofing granuler				Facility ID No. 1900104	1		
Primary SIC/NAICS Code: 329	5	-		Current/Previous Air Pe		Expiration Date: 3/3	1/2021
Facility Coordinates:		Latitude: 3	5-40-00	Longitude: 79-10-00			
Does this application contains	<b>"</b> □	YES 🔽	***	f yes, please contact the DAG	2 Regional Office prior tructions)	to submitting this	
		PER	SON OR FIRM THAT	PREPARED APPLICAT	ION		4. 5.
Person Name: Ryan Navis				Firm Name: 3M Compa			
Mailing Address Line 1: 3M Co	mpany, 3M Center			Mailing Address Line 2	: Building 224-05-W-03		
City: St. Paul		State: MN		Zip Code: 55144		County: Ramsey	
Phone No.: (651) 230-477	76	Fax No.:		Email Address: mavis@	gmmm.com		
			OF RESPONSIBLE	OFFICIAL/AUTHORIZED	CONTACT	L CEL	and the same
Name (typed): Blake Arnett	1	,		Title: Plant Director			
X Signature(Blue Ink):	1 And			Date: 5/10	122		
yesh	Jan J	Atta	ch Additional Shee	ets As Necessary	100	Received	Page 1 of

MAY 1 2 2022

Air Permits Section

# FORM A (continued, page 2 of 2) GENERAL FACILITY INFORMATION

REVISED 09/22/16 NCDEQ/Division of Air Quality - Appl	lication for Air Permit to Construct/Operate	Α
SECTION AA1 - APPLICATION FO	OR NON-TITLE V PERMIT RENEWAL	Mite II
(Company Name) her	reby formally requests renewal of Air Permit No.	
There have been no modifications to the originally permitted facility or the operations therein that		
Is your facility subject to 40 CFR Part 68 "Prevnetion of Accidental Releases" - Section $112(t)$ of	the Clean Air Act?	
If yes, have you already submitted a Risk Manage Plan (RMP) to EPA?	YES NO Date Submitted:	
Did you attach a current emissions inventory?	□ NO	
If no, did you submit the inventory via AERO or by mail?	Mailed Date Mailed:	
	FOR TITLE V PERMIT RENEWAL	
	Přítisboro (Company Name)	
hereby formally requests renewal of Air Permit No. 09006706  (1) The current air quality permit identifies and describes all emissions units at the a	(Air Permit No.) and further certifies that:	
North Carolina Title V regulations at 15A NCAC 2Q ,0500:	souve subject lability, except where such units are exempted under the	
<ul> <li>The current air quality permit cits all applicable requirements and provides the m requirements;</li> </ul>	nethod or methods for determing compliance with the applicable	
(3) The facility is currently in compliance, and shall continue to comply, with all appl	licable requiremetris. (Note: As provided under 15A NCAC 2Q .0512	
compliance with the conditions of the permit shall be deemed compliance with the		
(4) For applicable requirements that become effective during the term of the renewe	ed permit that the facility shall comply on a timely basis;	
(5) The facility shall fulfill applicable enhanced monitoring requirements and submit		
The responsible official (signature on page 1) certifies under the penalty of law that all information	and statements provided above, based on information and belief	
formed after reasonable inquiry, are true, accurate, and complete.		
SECTION AAS- APPLICA	TION FOR NAME CHANGE	
	THE TOTAL CONTROL	
New Facility Name:		
Former Facility Name:		
An official facility name change is requested as described above for the air permit mentioned on p	page 1 of this form. Complete the other sections if there have been	
modifications to the originally premitted facility that would requise an air quality permit since the last	st permit was issued and if ther has been an ownership change	
associated with this name change,		
	FOR AN OWNERSHIP CHANGE	
By this application we hereby request transfer of Air Quality Permit No.	from the former owner to the new owner as described below,	
The transfer of permit responsibility, coverage and liability shall be effective	(Immediately or insert date.) The legal ownership of the	
permitted facility that would require an air quality permit since the last permit was Issued.	(date). There have been no modifications to the originally	
portined to the portine was required at all query portine attack the least portine was tauted.		
Signature of New (Buyer) Responsible Official/Authorized Contact (as typed on page 1):		
X Signature (Blue Ink):		
Date:		
New Facility Name:		
-		
Former Facility Name:		
Signature of Former (Seller) Responsible Official/Authorized Contact;		
Name (typed or print):		
Title:		
X Signature (Blue Ink):		
Date:		
Former Legal Corporate/Owner Name:		
In lieu of the seller's signature on this form, a letter may be sub-	mitted with the seller's signature indicating the ownership change	
In lieu of the seller's signature on this form, a letter may be sub-		
SECTION AA5- APPLICATION FO	OR ADMINISTRATIVE AMENDMENT	rus leg
	OR ADMINISTRATIVE AMENDMENT	
SECTION AA5- APPLICATION FO	OR ADMINISTRATIVE AMENDMENT	
SECTION AA5- APPLICATION FO	OR ADMINISTRATIVE AMENDMENT	

#### FORMs A2, A3

#### EMISSION SOURCE LISTING FOR THIS APPLICATION - A2

# 112r APPLICABILITY INFORMATION - A3 NCDEQ/DIvision of Air Quality - Application for Air Permit to Construct/Operate

REVISED 09/22/16

A2

	EMISSION SOURCE LISTING:	New, Modified	, Previously Unp	ermitted, Replaced, De	leted
EMISSION SOURCE	EMISSION SOURCE		CONTROL DEVICE	CONTR	OL DEVICE
ID NO.	DESCRIPTION		ID NO.		CRIPTION
	Equipment To Be ADDED By T	nis Application	(New, Previously	Unpermitted, or Repla	cement)
F6772	Enclosed East and West Pugmill System		N/A	N/A	
		33. 1. 1.			
			-		
			NODIE E		
	Existing Permitted E	quipment To	Be MODIFIED B	y This Application	New York Control
T70	Enclosed Waste Stacker Conveyor No. 25	5 (To Waste	NUR	N/A	
F72	Stacker Conveyor No. 25A)	41-45.	N/A	N/A	
ES25A	Waste Stacker Conveyor No. 25A (to was FWP))	te pile (ID No.	N/A	N/A	
LUZUM	1		1.00	1 1111	
					-
		-			
	Equipmen	t To Be DELE	TED By This Ap	nlication	ALL STATE OF THE S
	Enclosed pugmill with wet suppression (o		1 2 2 7 7 10 2 7 10	Pilotitoti	
F6771	processing)	iust and waste	N/A	N/A	
					"
dec	112(r)	APPLICABIL	JITY INFORMA	TION	A 3
ls your facility subject	to 40 CFR Part 68 "Prevention of Accidenta	I Releases" - Secti	on 112(r) of the Federa	Il Clean Air Act?	☐ Yes ☑ No
If No, please specify in	ı detail how your facility avolded applicabilit	ty.	Facility is subject to f	RMP regulations under the ger	
requirements are trigg	ered as the facility's inventory is not higher	than the threshold	quantity.		
If your facility is Subject	ct to 112(r), please complete the following:				
A. Have you alread	ly submitted a Risk Management Plan (RM	P) to EPA Pursuant	t to 40 CFR Part 68.10	or Part 68.150?	
Yes [	No Specify required RMP sub	mittai date:	if subr	nitted, RMP submittal date: _	
<ul> <li>B. Are you using a</li> </ul>	dministrative controls to subject your facility	y to a lesser 112(r)	program standard?		
Yes	No If yes, please specify:				
C. List the process	ses subject to 112(r) at your facility:				
		PROCESS LEVEL			MAXIMUM INTENDED
PRO	DCESS DESCRIPTION	(1, 2, or 3)	HAZARI	DOUS CHEMICAL	INVENTORY (LB\$)

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16 NCDEC	VDivision of	Air Quality - A	pplication for	Air Permit to	Construct/Op	perate		В
EMISSION SOURCE DESCRIPTION:		-		EMISSION SC	URCE ID NO:	F6772		
Enclosed East and West Pugmill System				CONTROL DE	VICE ID NO(S	): N/A		
OPERATING SCENARIO 1	OF	1		EMISSION PC	INT (STACK)	D NO(8): N/A		
DESCRIBE IN DETAILTHE EMISSION SOURCE P								
The Enclosed East and West Pugmill System conta	ins two pugm	ills operating in	parallel to one	another. The t	wo pugmills wil	hin this system	n cannot operat	e at the same
time. The pugmill system is a totally enclosed syste	m where was	te fines, dust fine	es, and water i	meet and are r	nixed to form a	waste slurry s	tream. Water is adeorb all in an	effort to
control emissions, but is added to be mixed to creat create a final waste stream that can be handled in a	e the waste s sefer and nr	iurry with the lar actical manner 1	ger waste rine: Water is consi	s, this then all dered to be an	ows the smalle inherent part o	f the process.	Without water.	the puamill
cannot operate as designed and would more than	likely malfund	action. Additionally	y, this pugmill :	system is locat	ed inside a buil	ding. PM and I	PM10 emission	factors used
to quantify emissions are equal to twice the factor for	or "Conveyor	Transfer Point" f	from AP-42, C	hapter 11.19.2	, Table 11.19.2	?-2 (08/04). Th	ese emissions	estimates are
considered to be abundantly conservative consider	ng the unit is	an enclosed pied	ce of equipmer	nt and located i	nside a building	g.		
TYPE OF EMISSION SOURCE	E (CHECK A	ND COMPLETE	E APPROPRIA	TE FORM B1-	B9 ON THE FO	DLLOWING P.	AGES):	-
Coat,wood,oil, gas, other burner (Form B1)	(	_	ing (Form B4)				coatings/inks (F	orm B7)
Int.combustion engine/generator (Form B2)			ishing/printing		Inciner	ation (Form B	3)	
Liquid storage tanks (Form B3)		_	los/bins (Form		Other (	(Form B9)		
START CONSTRUCTION DATE: January 2020	400		DATE MANUF	ACTURED:				
MANUFACTURER / MODEL NO.: N/A		į	EXPECTED O	P. SCHEDULE	: <u>24</u> HR	/DAY	DAY/WK _52	WK/YR
IS THIS SOURCE SUBJECT TO? V NSPS	(SUBPARTS			_	P (SUBPARTS	5?):		
PERCENTAGE ANNUAL THROUGHPUT (%): DE	-	5 MAR-MA	Y 25	JUN-AUG	25	SEP-NOV	25	
CRITERIA AII	RPOLLUT	ANT EMISSI	ONS INFO	RMATION I	OR THIS S	OURCE		
		SOURCE OF	EXPECTED	ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONTR	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTE	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)			1.5	6,57	1.5	6.57	1.5	6.57
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42	0.55	2.41	0.55	2,41	0.55	2.41
PARTICULATE MATTER<2.5 MICRONS (PM <sub>2.5</sub> )		11,19.2	0.55	2.41	0.55	2.41	0.55	2.41
SULFUR DIOXIDE (\$02)								
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)				<u></u>				
LEAD								
OTHER								
HAZARDOUS	AIR POLL	JTANT EMIS	SIONS INF	ORMATION	FOR THIS	SOURCE	Ma Illia	
		SOURCE OF	EXPECTE	ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION [	(AFTER CONTI	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
N/A								
			3.0 0.50	****	1 m m 1 1 0 0 0 0	VIDOF.		
TOXIC AIR	POLLUTA	NT EMISSIC	NS INFOR	MA HON FO	JR THIS SU	URUE	A COLUMN	
	,	SOURCE OF EMISSION	EXPE	CTED ACTUA	EMISSIONS	AFTER CONT	ROLS / LIMITA	TIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	ib	/hr	lb/s	day	lb.	/yr
N/A		_						
Attachments: (1) emissions calculations and supporting of describe how these are monitored and with what frequent	documentation; by; and (3) desc	(2) indicate all requires any monitorin	uested state and g devices, gaug-	f federal enforces es, or test ports t	able permit limits for this source.	(e.g. hours of op	peration, emission	rates) and

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16 N	ICDEQ/Division o	f Air Quality - A	pplication for	r Air Permit to	Construct/O	perate		В
-		_			DURCE ID NO			
EMISSION SOURCE DESCRIPTION: Enclosed Waste Stacker Conveyor No. 25 (T	o Waste Stacker C	Conveyor No. 25	A)		EVICE ID NO(			
OPERATING SCENARIO 1	OF	1	las	EMISSION POINT (STACK) ID NO(S): N/A				
DESCRIBE IN DETAILTHE EMISSION SO	URCE PROCESS	(ATTACH FLOV						
Enclosed Waste Stacker Conveyor No. 25 is Conveyor No. 25A. The PM and PM10 emiss emissions estimates are considered to be ab	fed a wetted slurry sion factors used a undantly conservat	waste material for "Conveyor ive considering to	from the East a Transfer Point hat these facto	and West Pugr " from AP-42, ars represent an	Chapter 11,19. n uncontrolled	2, Table 11.19 conveyance of	).2-2 (08/04), T	hese
has taken no credit for the fact that the waste	material conveyed	contains water	and inherently:	significantly re	duces particula	te emissions.		
TYPE OF EMISSION S	OURCE (CHECK A	AND COMPLET	E APPROPRIA	ATE FORM B				
Coal,wood,oil, gas, other burner (Form 6	31)	Woodwork	king (Form B4)				coatings/inks (F	orm B7)
Int.combustion engine/generator (Form	B2)		nishing/printing		_	ation (Form B8	3)	
Liquid storage tanks (Form B3)		Storage si	los/bins (Form	B6)	Other (	Form 89)		
START CONSTRUCTION DATE:		1.00	DATE MANUE	ACTURED:				
MANUFACTURER / MODEL NO.: N/A			EXPECTED (			R/DAY7_	DAY/WK _52	_WK/YR
	NSPS (SUBPARTS				AP (SUBPART			
PERCENTAGE ANNUAL THROUGHPUT (	(%): DEC-FEB	25 MAR-I		JUN-AU		SEP-NO	V 25	
CRITERI	A AIR POLLUT	ANT EMISS	IONS INFO	RMATION	FOR THIS S	OURCE	U. L	الم وسوال
		SOURCE OF	EXPECTE	DACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONTE	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)	- 1 P. P. S.		0.675	2.96	0.675	2.96	0.675	2.96
PARTICULATE MATTER<10 MICRONS (PM	10)	AP-42	0.248	1.08	0.248	1,08	0.248	1,08
PARTICULATE MATTER<2.5 MICRONS (PM	12.5)	11.19.2	0.248	1.08	0,248	1.08	0,248	1.08
SULFUR DIOXIDE (SO2)								
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC	C)							
LEAD								
OTHER								
HAZARDO	US AIR POLL	UTANT EMIS	SIONS INF	ORMATIO	V FOR THIS	SOURCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONTE	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	łb/hr	tons/yr	lb/hr	tons/yr
N/A								
TOXIC	AIR POLLUTA	NT EMISSIC	ONS INFOR	MATION FO	OR THIS SC	URCE	-	
		SOURCE OF EMISSION	EXPEC	TED ACTUAL	. EMISSIONS	AFTER CONT	ROLS / LIMIT.	ATIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	Jb.	/hr	lb/s	day	_ lb	/yr
N/A				435				
2.5								
Attachments: (1) emissions calculations and sun	portiza documentatio	n: (2) indicate all	requested state	and federal enfo	rceable parmit ti	mits (e.a. hours	of coeration, err	ission rates)

and describe how these are monitored and with what frequency; and (3) describe any monitoring devices, gauges, or test ports for this source.

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16 NCDE	Q/Division o	f Air Quality - A	pplication for	Air Permit to	Construct/O	perate		_ В
ENICOLONI COLIBOR DESCRIPTIONI.				EMISSION SC	DURCE ID NO	: ES25A		
EMISSION SOURCE DESCRIPTION: Waste Stacker Conveyor No. 25A (to waste pile (f	No EWP))							
					EVICE ID NO(			
OPERATING SCENARIO1	_ OF	_1			DINT (STACK)	ID NO(S): N//	Α	
DESCRIBE IN DETAILTHE EMISSION SOURCE								
Waste Stacker Conveyor No. 25A is fed a wetted: waste pile (ID No. FWP). The PM and PM10 emis								
emissions estimates are considered to be abunda	sion tactors u atly conservati	ive considering t	hat these facto	r Font Hom A rs represent at	r-4z, Chapter Luncontrolled	convevance of	a dry mineral m	naterial, 3M
has taken no credit for the fact that the waste mate	rial conveyed	contains water a	and inherently	significantly red	duces particula	te emissions.	,	
			•		· ·			
TYPE OF EMISSION SOUR	E (CHECK A	ND COMPLET	E APPROPRIA	ATE FORM B1	-B9 ON THE I	FOLLOWING	PAGES):	
Coal,wood,oil, gas, other burner (Form B1)	)_ ( <b>0</b> 1) <b>_0</b> 1()		ing (Form B4)				coatings/inks (F	orm 87)
☐ Int.combustion engine/generator (Form B2)			ishing/printing		***	ation (Form 88		´
Liquid storage tanks (Form B3)			los/bins (Form		_	Form B9)	-,	
START CONSTRUCTION DATE:			DATE MANUF		(-)			
MANUFACTURER / MODEL NO.: N/A				P. SCHEDUL	E: 24 HI	R/DAY 7	DAY/WK 52	WK/YR
	(SUBPARTS				AP (SUBPART			
PERCENTAGE ANNUAL THROUGHPUT (%):		25 MAR-I		JUN-AU		SEP-NO	V 25	
CRITERIA AI						OURCE	Ton Service	10 10 10
		SOURCE OF	EXPECTE				EMISSIONS	
		EMISSION	(AFTER CONTE		(BEFORE CONT		(AFTER CONTE	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	łb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)			0.675	2.96	0.675	2.96	0.675	2.96
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42	0.248	1.08	0.248	1,08	0.248	1.08
PARTICULATE MATTER<2.5 MICRONS (PM2.5)		11.19.2	0.248	1.08	0,248	1.08	0.248	1.08
SULFUR DIOXIDE (SO2)								
NITROGEN OXIDES (NOx)		-						
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD								
OTHER								
HAZARDOUS	AIR POLL	UTANT EMIS	SIONS INF	ORMATIO	V FOR THIS	SOURCE		
		SOURCE OF	EXPECTE!	DACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONTI	ROLS / LIM(TS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTE	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
N/A								
		-					10.0	
				fig.				
						·		
TOXIC AIR	POLLUTA	NT EMISSIC	NS INFOR	MATION FO	OR THIS SC	URCE		
		SOURCE OF	EVDEC	TED ACTUAL	EMISSIONS	AFTER CONT	FROLS / LIMITA	ATIONS
		EMISSION	EXPEC	TED ACTORE	210/10010140	AI ILIX OOM		-110110
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	lb.	/hr	lb/d	day	Ib.	Íут
N/A								
					**			
							454	
Attachments: (1) emissions calculations and supporting	g documentatio	n; (2) Indicate all	requested state	and federal enfo	rceable permit II	mits (e.g. hours	of operation, em	ission rates)

and describe how these are monitored and with what frequency; and (3) describe any monitoring devices, gauges, or test ports for this source.

COMPLETE THIS FORM AND COMPLETE AND ATTACH APPROPRIATE B1 THROUGH B9 FORM FOR EACH SOURCE

Attach Additional Sheets As Necessary

# FORM B9 EMISSION SOURCE (OTHER)

REVISED 09/22/16 NCDEQ/Division of Air Qual	ity - Application 1	for Air Permit to Construct/Operate	е В9
MISSION SOURCE DESCRIPTION:		EMISSION SOURCE ID NO: F677	72
Enclosed East and West Pugmiil System		CONTROL DEVICE ID NO(S): N//	4
OPERATING SCENARIO:1 OF1		EMISSION POINT (STACK) ID NO	D(S): N/A
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM The Enclosed East and West Pugmill System contains two pugmills or same time. The pugmill system is a totally enclosed system where was Water is not added to control emissions, but is added to be mixed to create of all in an effort to create a final waste stream that can be handled Without water, the pugmill cannot operate as designed and would most and PM10 emission factors used to quantify emissions are equal to twice (08/04). These emissions estimates are considered to be abundantly obtained.	perating in parallel te fines, dust fines eate the waste slu d in a safer and pro- re than likely malfu- te the factor for "C	<ul> <li>and water meet and are mixed to for rry with the larger waste fines. This the actical manner. Water is considered to inction. Additionally, this pugmill systematics.</li> <li>Conveyor Transfer Point" from AP-42</li> </ul>	rm a wetted slurry waste stream. nen allows the smaller dust fines to to be an inherent part of the process em is located inside a building. PM , Chapter 11.19.2, Table 11.19.2-2
MATERIALS ENTERING PROCESS - CONTINUOUS PR	OCESS	MAX, DESIGN	REQUESTED CAPACITY
TYPÉ	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)
Slurry waste stream (Waste fines, dust fines, and water mixture)	Tons	250	250
MATERIALS ENTERING PROCESS - BATCH OPER/ TYPE N/A	ATION UNITS	MAX. DESIGN CAPACITY (UNIT/BATCH)	REQUESTED CAPACITY LIMITATION (UNIT/BATCH)
MAXIMUM DESIGN (BATCHES / HOUR): N/A			
REQUESTED LIMITATION (BATCHES / HOUR): N/A	(BATCHES/	YR): N/A	
FUEL USED: N/A	TOTAL MAX	KIMUM FIRING RATE (MILLION BT	U/HR); N/A
MAX, CAPACITY HOURLY FUEL USE: N/A	REQUESTE	D CAPACITY ANNUAL FUEL USE:	N/A
COMMENTS: The maximum rated capacity for the pugmill system is 250 tons per ho practice. The facility proposes to permit the worst case emissions from restrictions/limitations on its throughput capacity.	our. However, beca n operating at the o	ause of process bottlenecks, the facili designed maximum capacity (250 ton	ty cannot operate at this capacity in s per hour) without

#### EMISSION SOURCE (OTHER)

	ity - Application i	or Air Permit to Construct/Operat	e   D3
EMISSION SOURCE DESCRIPTION: Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor	or No. 25A)	EMISSION SOURCE ID NO: F72	
		CONTROL DEVICE ID NO(S): N/	Α
OPERATING SCENARIO: 1_ OF1		EMISSION POINT (STACK) ID NO	D(S): N/A
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM Enclosed Waste Stacker Conveyor No. 25 is fed a wetted slurry waste Conveyor No. 25A. The PM and PM10 emission factors used are for "Gemissions estimates are considered to be abundantly conservative con has taken no credit for the fact that the waste material conveyed contains	material from the I Conveyor Transfer isidering that these	Point" from AP-42, Chapter 11.19.2, factors represent an uncontrolled co	, Table 11.19.2-2 (08/04). These priveyance of a dry mineral material. 3M
MATERIALS ENTERING PROCESS - CONTINUOUS PR	OCESS	MAX. DESIGN	REQUESTED CAPACITY
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)
Slurry waste stream (Waste fines, dust fines, and water mixture)	Tons	225	225
MATERIALS ENTERING PROCESS - BATCH OPERA	ATION	MAX. DESIGN	REQUESTED CAPACITY
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)
N/A			
MAXIMUM DESIGN (BATCHES / HOUR): N/A	-		
REQUESTED LIMITATION (BATCHES / HOUR): N/A	(BATCHES/	YR): N/A	
FUEL USED: N/A	TOTAL MAX	IMUM FIRING RATE (MILLION BT	U/HR): N/A
MAX, CAPACITY HOURLY FUEL USE: N/A	REQUESTE	D CAPACITY ANNUAL FUEL USE:	: N/A
COMMENTS:			

#### FORM B9 EMISSION SOURCE (OTHER)

	- Application is	or Air Permit to Constructioperat		
EMISSION SOURCE DESCRIPTION: Waste Stacker Conveyor No. 25A (to waste pile (ID No. FWP))		EMISSION SOURCE ID NO: ES2	5A	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CONTROL DÉVICE ID NO(S): N/	Α	
OPERATING SCENARIO: 1_ OF 1		EMISSION POINT (STACK) ID NO	O(S): N/A	
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM): Waste Stacker Conveyor No. 25A is fed a wetted slurry waste material fri waste pile (ID No. FWP). The PM and PM10 emission factors used are femissions estimates are considered to be abundantly conservative considerations taken no credit for the fact that the waste material conveyed contains	om Enclosed Wa for "Conveyor Tra dering that these	ensfer Point" from AP-42, Chapter 1 factors represent an uncontrolled co	1.19,2, Table 11,19.2- inveyance of a dry mir	·2 (08/04). These
MATERIALS ENTERING PROCESS - CONTINUOUS PRO	CESS	MAX. DESIGN	REQUESTED	CAPACITY
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(	JNIT/HR)
Slurry waste stream (Waste fines, dust fines, and water mixture)	Tons	225	225	
MATERIALS ENTERING PROCESS - BATCH OPERAT	ION	MAX. DESIGN	REQUESTED	CAPACITY
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (U)	
N/A				
	_			-
			-	-
MAXIMUM DESIGN (BATCHES / HOUR): N/A				
REQUESTED LIMITATION (BATCHES / HOUR): N/A	(BATCHES/	(R): N/A		
FUEL USED: N/A	TOTAL MAX	IMUM FIRING RATE (MILLION BT	U/HR): N/A	
MAX. CAPACITY HOURLY FUEL USE: N/A	REQUESTE	D CAPACITY ANNUAL FUEL USE	: N/A	
COMMENTS:				

#### FORM D1

#### **FACILITY-WIDE EMISSIONS SUMMARY**

	IVISION OF AIR QUAIN						D:
CRITERIA	AIR POLLUTANT	EMISSIONS I	NFORMATIO	N - FACILITY-V	VIDE		A STATE OF
		EXPECTED EMISS (AFTER COLLIMITATION)	IONS NTROLS /	POTENTIAL (BEFORE CO LIMITA)	ONTROLS /	(AFTER (	L EMISSIONS CONTROLS / ATIONS)
AIR POLLUTANT EMITTED		tons		tons			ns/yr
PARTICULATE MATTER (PM)				147,	201	2	18.7
PARTICULATE MATTER < 10 MICRONS (PM <sub>10</sub> )				128,	300	1	43,9
PARTICULATE MATTER < 2.5 MICRONS (PM <sub>2.5</sub> )				128,	300	1	43.9
SULFUR DIOXIDE (SO <sub>2</sub> )							
N)TROGEN OXIDES (NOx)							
CARBON MONOXIDE (CO)							
VOLATILE ORGANIC COMPOUNDS (VOC)							
LEAD							
GREENHOUSE GASES (GHG) (SHORT TONS)							
OTHER							
HAZARDOI	IS AIR POLLUTAI	NT EMISSIONS	INFORMAT	ION - FACILITY	-WIDE		I.V. R.
		EXPECTED EMISS (AFTER CO	IONS NTROLS /	POTENTIAL (BEFORE CO	ONTROLS /	(AFTER	L EMISSIONS CONTROLS / ATIONS)
HAZARDOUS AIR POLLUTANT EMITTED	CAS NO.	tons	/ут	tons	s/yr	to	ns/yr
No change of emissions with this permit action,							
		- 1					
TOXIC	IR POLLUTANT	MISSIONS INF	ORMATION	- FACILITY-WI	DE		72.211
INDICATE REQUESTED ACTUAL EMISSIONS AFTI 2Q .0711 MAY REQUIRE AIR DISPERSION MODEL				E THE TOXIC PE			R) IN 15A NCA
TOXIC AIR POLLUTANT EMITTED	CAS NO.	lb/hr	lb/day	lb/year	Yes	Required ?	+
No change of emissions with this permit action, Modifi					169	140	
The straige of Editional Wild the politic action, mount	battori is only adding	a pidkapa ta exta	ing pormitted t	эдиртен			
							1
						-	
COMMENTS:							

#### TITLE V GENERAL INFORMATION

subject to Title V by "OTHER", specify why:    OTHER (specify)	REVISED 06/01/16	NCDEQ/Division of Air Qu	ality - Application for A	ir Permit to Construct/Operate		E1
THIS FORM AND ALL OTHER REQUIRED "E" FORMS (E2 THROUGH E5 AS APPLICABLE)  dicate here if your facility is subject to Title V by:    Semissions	IF YOUR FAC	LITY IS CLASSIFIED AS	"MAJOR" FOR	TITLE V YOU MUST COM	PLETE	
subject to Title V by "OTHER", specify why:    NSPS						
you are or will be subject to any maximum achievable control technology standards (MACT) Issued pursuant to section 12(d) of the Clean Air Act, specify below.  EMISSION SOURCE ID  DESCRIPTION  MACT   MACT   ast any additional regulation which are requested to be included in the shield and provide a detailed explanation as to with  REGULATION  EMISSION SOURCE (Include ID)  EXPLANATION	Indicate here if your facility is subject to Title V by:	Ø	EMISSIONS	OTHER		
you are or will be subject to any maximum achievable control technology stundards (MACT) Issued pursuant to section 12(d) of the Clean Air Act, specify below.  EMISSION SOURCE  EMISSION SOURCE ID  DESCRIPTION  MACT   at any additional regulation which are requested to be included in the shield and provide a detailed explanation as to wifty  e shield should be granted:  REGULATION  EMISSION SOURCE (Include ID)  EXPLANATION	If subject to Title V by "OTHER", specify why:		NSPS	NESHAP (MACT)	☐ TITLE IV	
2(d) of the Clean Air Act, spearly below:  EMISSION SOURCE ID  DESCRIPTION  MACT  MACT  Any additional requisition which are requested to be included in the shield and provide a detailed explanation as to why eshield should be granted:  REGULATION  EMISSION SOURCE (include ID)  EXPLANATION			OTHER (specify)	,	_	
2(d) of the Clean Air Act, spearly below:  EMISSION SOURCE ID  DESCRIPTION  MACT  MACT  Any additional requisition which are requested to be included in the shield and provide a detailed explanation as to why eshield should be granted:  REGULATION  EMISSION SOURCE (include ID)  EXPLANATION	If you are or will be subject to any maximum achievable	control technology standards (MAC	T) Issued pursuant to se	ction		
EMISSION SOURCE ID  DESCRIPTION  MACT  Has any additional regulation which are requested to be included in the shield and provide a detailed explanation as to why e shield should be granted:  REGULATION  EMISSION SOURCE (Include ID)  EXPLANATION	112(d) of the Clean Air Act, specify below:	335				
at any additional regulation which are requested to be included in the shield and provide a detailed explanation as to why e shield should be granted:  REGULATION  EMISSION SOURCE (Include ID)  EXPLANATION						
te shield should be granted:  REGULATION  EMISSION SOURCE (Include ID)  EXPLANATION  One of the shield should be granted:  EXPLANATION  EXPLANATION	EMISSION SOURCE ID	DESCRIPTION			MACT	
REGULATION EMISSION SOURCE (Include ID) EXPLANATION	_			MACT		
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION	_					
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						_
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION		<u> </u>				
REGULATION EMISSION SOURCE (Include ID) EXPLANATION						
REGULATION EMISSION SOURCE (Include ID) EXPLANATION				Section and the section of the secti		
	the shield should be granted:			io wily	EVDI ANATION	
Offrients:	REGULATION	EMISSION SOUNCE (MEIG	de iD)		EAF EARA/ION	
orranents:						
orranents:		-			_	
orranents:						
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omments:						
omments:						
omments:						
omments:						
omments:						
Comments:		-		· ·		
onzaents:						
	Comments:					

Attach Additional Sheets As Necessary

#### EMISSION SOURCE APPLICABLE REGULATION LISTING

EMISSION SOURCE ID NO.	EMISSION SOURCE DESCRIPTION	OPERATING SCENARIO INDICATE PRIMARY (P) OR ALTERNATIVE (A)	1	APPLICABLE REGULATION	
			PM	NCAC 2D .0503	100
ES 1	Coal/Wood Boller	P - Coal A - Wood	PM	NCAC 2D .0504	
		7. 11000			
6772	Enclosed East and West Pugmill System	P	PM	15A NCAC 02D .0510	
	Enclosed East and West Pugmill			15A NCAC 02D .0524	
F6772	System	P	PM	40 CFR 60, Subp. OOO	
F6772	Enclosed East and West Pugmill System	Р	Visible Emissions	15A NCAC 02D .0524 40 CFR 60, Subp. OOO	
-70	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor	P	РМ	15A NCAC 02D .0510	
F72	No. 25A)	P	PW	15A NCAC 02D .0510	
F72	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor No. 25A)	P	PM	15A NCAC 02D .0524 40 CFR 60, Subb. OOO	
,,2	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor			15A NCAC 02D .0524	
F72	No. 25A)	Р	Visible Emissions	40 CFR 60, Subp. OOO	
ES25A	Waste Stacker Conveyor No. 25A (to waste pile (ID No. FWP))	P	PM	15A NCAC 02D .0510	
E\$25A	Waste Stacker Conveyor No. 25A (to waste pile (ID No. FWP))	Р	PM	15A NCAC 02D .0524 40 CFR 60, Subp. OOO	
ES25A	Waste Stacker Conveyor No. 25A (to waste pile (ID No. FWP))	Р	Visible Emissions	15A NCAC 02D .0524 40 CFR 60, Subp. OOO	
	a constitution of the same		the second of		

#### **EMISSION SOURCE COMPLIANCE METHOD**

REVISED 09/22/16	NCDEQ/Division Of Air O	Quality - App	lication for Air i	Permit to Construct/Operate	E3	
		Regi	ulated Pollutant: f	PM (PM10 and TSP)		
Emission Source ID	Applicable Regulation: 15A NCAC 02D .0510 & 15A NCAC 02D. 0524 (40 CFR 60, Subp. 000)					
Alternative Operating	g Scenario (AOS) NO: N/A					
	ATTACH A SEPARATE PAGE	TO EXPAN	ON ANY OF	THE BELOW COMMENTS		
	MON	TORING RE	QUIREMENT	S CONTRACTOR OF THE STATE OF TH		
			r			
If yes, is CAN	e Assurance Monitoring (CAM) 40 CFR Part 64 A M Plan Attached (if applicable, CAM plan must be nitoring Device Type:		YES YES	NO NO		
Describe Mor	nitoring Location:	NA			_	
Other Monito	ring Methods (Describe In Detail):	NA			_	
readings take Initial perform	frequency and duration of monitoring and how the en to produce an hourly average): nance testing was completed in accordance with 4	10 CFR 60 Su	ibpart OOO on D	ecember 1, 2021. Quarterly Method 22 visible		
observations	will be required pursuant to NSPS OOO. Results	of the observ	ations will be rec	orded on a log sheet.	_	
					_	
		100			_	
				<del></del>	-	
	RECOR	DKEEPING	REQUIREMEN	ITS		
Data (Parame	eter) being recording:	Visible E	missions		- 🚮	
Frequency of	recordkeeping (How often is data recorded?):	Quarterly	y Method 22 insp	ections.	_	
					_	
					_	
مت اعتمالیا	REPO	ORTING RE	QUIREMENTS			
Generally des	scribe what is being reported;	Deviation	n from permit req	uirements in accordance to permit requirements	_	
					- - -	
Frequency:	☐ MONTHLY ☐ OTHER (DESCRIBE):	QUART	ERLY	☑ EVERY 6 MONTHS		
and the same of		TEST	ING			
Specify proposed ref	ference test method;	Method 9	9. Initial Performa	ance testing was completed on 12/1/2021.		
Specify reference tes	st method rule and citation:	NSPS OOO - 40 CFR 60,675(a)				
Specify testing frequ	ency:	Initial Performance Testing, then once every 5 years.				
N	OTE - Proposed test method subject to a	approval an	d possible cha	ange during the test protocol process		

#### **EMISSION SOURCE COMPLIANCE METHOD**

REVISED 09/2	22/16 NCDEQ/Division Of Air Qu	tuality - Application for Air Permit to Construct/Operate	E3			
		Regulated Pollutant: PM (PM10 and TSP)				
Emission Soul	rce ID NO. F72	Applicable Regulation: 15A NCAC 02D .0510 & 15A NCAC 02D. 0524 (40 CFR 80, Subp. OOO)				
Alternative Op	erating Scenario (AOS) NO: N/A					
	ATTACH A SEPARATE PAGE TO	O EXPAND ON ANY OF THE BELOW COMMENTS				
	MONIT	TORING REQUIREMENTS				
		_				
łf yes, i	pliance Assurance Monitoring (CAM) 40 CFR Part 64 Ap is CAM Plan Attached (if applicable, CAM plan must be al pe Monitoring Device Type:					
Describ	e Monitoring Location:	NA				
Other I	Monitoring Methods (Describe In Detail):	NA				
readin	gs taken to produce an hourly average):	e data will be recorded (i.e., every 15 minutes, 1 minute instantaneous				
		0 CFR 60 Subpart OOO on December 1, 2021, Quarterly Method 22 visible				
observa	ations will be required pursuant to NSPS OOO. Results of	of the observations will be recorded on a log sheet.				
- 67	RECORD	OKEEPING REQUIREMENTS	NOTE:			
Data (F	Parameter) being recording:	<u>Visible</u> Emissions				
Freque	ncy of recordkeeping (How often is data recorded?):	Quarterly Method 22 inspections.				
_						
	REPO	ORTING REQUIREMENTS				
Genera	ally describe what is being reported:	Deviation from permit requirements in accordance to permit requirements				
Frequency:	☐ MONTHLY [	☐ QUARTERLY ☑ EVERY 6 MONTHS				
		TESTING				
Specify propos	sed reference test method:	Method 9. Initial Performance testing was completed on 12/1/2021.				
	nce test method rule and citation:	NSPS OOO - 40 CFR 60.675(a)				
Specify testing		Initial Performance Testing, then once every 5 years.				
-						
	NOTE - Proposed test method subject to ap	pproval and possible change during the test protocol process				

#### **EMISSION SOURCE COMPLIANCE METHOD**

REVISED 09/22/16	NCDEQ/Division Of Air	Quality - Application for Air P	ermit to Construct/Operate	E3
		Regulated Poliutant: P	M (PM10 and TSP)	
Emission Source ID I	NO. ES25A	Applicable Regulation:	15A NCAC 02D .0510 & 15A NCAC 02D. 0524 (40 CFR 60, Subp. 000)	
Alternative Operating	Scenario (AOS) NO: N/A			
	ATTACH A SEPARATE PAGE	TO EXPAND ON ANY OF 1	THE BELOW COMMENTS	
race de la companya d	MON	NITORING REQUIREMENTS		
			_	
If yes, is CAM Describe Mon	e Assurance Monitoring (CAM) 40 CFR Part 64 I Plan Attached (if applicable, CAM plan must b itoring Device Type: itoring Location:		☑ NO ☑ NO	_
Other Monitor	ing Methods (Describe In Detail):	NA		_
readings take Initial perform	frequency and duration of monitoring and how to en to produce an hourly average): ance testing was completed in accordance with will be required pursuant to NSPS OOO. Resul	40 CFR 60 Subpart OOO on De	cember 1, 2021. Quarterly Method 22 visible	_
	RECOR	RDKEEPING REQUIREMEN	TS	1,5
Data (Parame	eter) being recording:	Visible Emissions		_
Frequency of r	recordkeeping (How often is data recorded?):	Quarterly Method 22 inspe	octions.	
				_
	REF	PORTING REQUIREMENTS		
Generally desi	cribe what is being reported:	Deviation from permit requ	irements in accordance to permit requirements	_
Frequency:	☐ MONTHLY	QUARTERLY	☑ EVERY 6 MONTHS	
	L OTHER (DESCRIBE):		· · · · · · · · · · · · · · · · · · ·	
للاحرف تحديد		TESTING		
	t method rule and citation:	NSPS 000 - 40 CFR 60.0		_
Specify testing freque	ancy:	Initial Performance Testing	, then once every 5 years.	_
Ne Ne	OTE - Proposed test method subject to	approval and possible cha	nge during the test protocol process	

#### **EMISSION SOURCE COMPLIANCE SCHEDULE**

REVISED 09/22/16

NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

E4

VIII each er	mission s	source at yo	ur facility be in compl	ance with all applicable requir	ements at the time of perm	ift issuance and continue to comply with thes
equirement						
	$\checkmark$	YES	□ NO	if NO, complete A thre compliance is not ach	ough F below for each requieved.	uirement for which
			npliance with all : imely basis?	applicable requirements	s taking effect during	the term of the permit and meet
	V	YES	□ NO	If NO, complete A thre compliance is not ach	ough F below for each requieved.	uirement for which
this applic	cation is	for a modific	cation of existing emis	sions source(s), is each emis	sion source currently in co	empliance with all applicable requirements?
		YES	<b>☑</b> NO	if NO, complete A thre compliance is not ach	ough F below for each requieved.	uirement for which
	A. En	nission Sou	rce Description (Inclu		772, CDB1, CDB2, CDB4, DB11, CDB12, CDB13, CD	, CDB5, CDB7, CDB8, CDB9, CDB10, B14, CDB15
	D let		-hloi	wish samellance in not achiev	end:	
			-	which compliance is not achieved		nd West Pugmill System (F6772)
	_			it is in violation of North Caroli		
		, and prior in	Total of the sale point			
	Pe	er Notice of Y	Violation issued on Au	igust 12, 2021, 3M Pittsboro i	is in violation of Section 3.	General Condition G. Permit
	_			igust 12, 2021, 3M Pittsboro i		
	М	odifications	for not submitting the	minor modification permit app	lication prior to the transition	on from Seneca to BHA Parker
	М	odifications	for not submitting the	minor modification permit app	lication prior to the transition	
	Me	odifications i	for not submitting the is control devices. Ch	minor modification permit app anges to CDB3 and CDB6 ha	dication prior to the transition we already been resolved v	on from Seneca to BHA Parker
	ba C. Na	odifications gfilters for it arrative desc	for not submitting the is control devices. Ch cription of how compli	minor modification permit app anges to CDB3 and CDB6 ha ance will be achieved with this	olication prior to the transition of the transit	on from Seneca to BHA Parker ia Permit 09006T07 issuance.
	Mo ba	odifications gfilters for it arrative desc ne forms sub	for not submitting the is control devices. Ch cription of how compli- omitted within this add	minor modification permit app anges to CDB3 and CDB6 ha ance will be achieved with this dendum to the Title V renewal	olication prior to the transition of the transit	on from Seneca to BHA Parker ria Permit 09006T07 issuance.  1 21C will formally document
	C. Na	edifications of displaying displa	for not submitting the is control devices. Ch cription of how compli- comitted within this add of the Enclosed East a	minor modification permit app anges to CDB3 and CDB6 ha ance will be achieved with this dendum to the Title V renewal and West Pugmill System (F6	size already been resolved v applicable requirements: application and Application 772). The 21C Application	on from Seneca to BHA Parker ria Permit 09006T07 issuance.  n 21C will formally document originally requested to change
	Mo ba C. Na Tr the	edifications of difference of the control of the co	for not submitting the is control devices. Ch cription of how compli- comitted within this add of the Enclosed East and aghouse surface area	minor modification permit app anges to CDB3 and CDB6 hat ance will be achieved with this dendum to the Title V renewal and West Pugmill System (F6 descriptions, The Title V draw	silication prior to the transition of the transi	on from Seneca to BHA Parker ia Permit 09006T07 issuance.  21C will formally document originally requested to change 2022 incorporated updates to the
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#### TITLE V COMPLIANCE CERTIFICATION (Required)

(EVISED 0	9/22/16	NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate	E5
	In accordance with ti	he provisions of Title 15A NCAC 2Q .0520 and .0515(b)(4) the responsible company official of:	
s	SITE NAME:	3M Company - Pittsboro	
S	SITE ADDRESS:	4191 Highway 87	ı
c	CITY, NC :	Moncure, NC	
c	COUNTY:	<u>Chatham</u>	. 1
F	PERMIT NUMBER :	09006T06	.
c	CERTIFIES THAT (Chec	k the appropriate statement(s):	
	The facility is in co	mpliance with all applicable requirements	
		the provisions of Title 15A NCAC 2Q .0515(b)(4) the responsible company official certifies that the proposed minor the criteria for using the procedures set out in 2Q .0515 and requests that these procedures be used to process the permit	
	☑ The facility is not co	urrently in compliance with all applicable requirements	
	If this box is check	ted, you must also complete Form E4 "Emission Source Compliance Schedule"	
he unde nformati	ersigned certifies und on and belief formed	ler the penalty of law, that all information and statements provided in the application, based of after reasonable inquiry, are true, accurate, and complete.	on
5	Signature of responsi	Date: 5/10/27	
	Blake Arnett, Plant Director		
-	· · · · · · · · · · · · · · · · · · ·	sible company official (Type or print)	

Attach Additional Sheets As Necessary

Received

MAY 1 2 2022

Air Permits Section

#### COMPLIANCE ASSURANCE MONITORING (CAM) PLAN (4 pages)

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate E6-1 For CAM-affected emission units, the applicant must submit additional information in the form of a CAM Plan as required under 40 CFR 64. For information about the CAM rule and this form, please refer to 40 CFR 64 and 15A NCAC 2D .0614. Additional information (including guidance documents may be found at the following URLs: https://www3.epa.gov/ttn/emc/cam.html https://deq.nc.gov/about/divisions/air-quality/air-quality-enforcement/compliance-assurance-monitoring SOURCE INFORMATION Facility Name: 3M Pittsbaro 1. Permit Number: 2. 09006T06 Date Form Prepared: May-22 BASIS OF CAM SURMITTAL Mark the appropriate box below as to why this CAM Plan is being submitted as part of this application; 4. Renewal Application: ALL Emission Units (Pollutant Specific Emission Units (PSEUs) considered separately with respect to EACH regulated air pollutant) for which a CAM Plan has NOT yet been approved needs to be addressed in this CAM Plan submittat. See Renewal Procedures per 15 A NGAC 2Q .0513. Initial Application (Submitted after 4/20/1998): Only large PSEUs (PSEUs with potential post control device emissions of an applicable regulated air pollutant that are equal to or greater than major source threshold levels) need to be addressed in this CAM Plan submittal. See Initial Application Procedures per 15A NCAC 2Q .0505(1). Significant Modification to Large PSEUs: Only large PSEUs (PSEUs with potential post control device emissions of an applicable regulated air pollutant that are equal to or greater than major source threshold levels) being modified after 4/20/1998 need to be addressed in this CAM Plan submittal. For large PSEUs with an approved CAM Plan, only address the appropriate monitoring requirements affected by the significant modification. See Significant Modification Procedures per 15 A NCAC 2Q .0516. CAM APPLICABILITY DETERMINATION 5. To determine CAM applicability, a PSEU must meet ALL of the following criteria (if not, then the remainder of this form need not be completed): A. The PSEU is located at a major source; B. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt; List of EXEMPT Emission Limitations or Standards below OR as provided in 15A NCAC 2Q .0614(b)(1): NSPS (40 CFR Part 60) or NESHAP (40 CFR Part 61 and 63) proposed after 11/15/1990. Stratospheric ozone protection requirements. Acid Rain program requirements. Emission limitations or standards for which a Title V permit specifies a continuous compliance determination method, as defined in the CAM rule (40 CFR 64.1), Continuous Compliance Determination Method. An emission cap that meets the requirements specified in 40 CFR 70.4(b)(12), If the PSEU is subject to both Exempt and Not Exempt emission standards for the same pollutant, then the facility is required to determine the CAM applicability for Not Exempt emission standards. C. The PSEU uses an add-on control device to achieve compliance with an emission limitation or standard: D. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are egual to or greater than major source threshold levels; and

E. The PSEU is NOT an exempt backup utility power emission unit that is municipally owned and appropriately documentd as provided in

15A NCAC 2D .0614(b)(2).

	BAC	KGROUND DATA AND IN	FORMATION		E6-2		
6. Complete the following table for <u>ALL</u> PSEUs that need to be addressed in this CAM Plan submittal. This section is to be used to provide background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR 64.4. If additional space is needed, please attach and label additional sheets as appropriate.							
PSEU  Designation	PSEU Description	er additional sneets as a	Control Device	*Emission Limitation OR Standard	<sup>b</sup> Monitoring Requirement		
C.A	NOT APPLICABLE — CAM PLANS I NM APPLIES THAT DO NOT ALRE	EXIST FOR ALL REQUIRE ADY HAVE ESTABLISHEI APPENDIX E OF	D CAM PLANS, 3M has a	IS NO EQUIPMENT FOR Widdressed a further assessmen	RICH t within		
		1004					

Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance. Examples of emission limitations or standards may include a permitted emission limitation, applicable regulations, work practices, process or control device parameters, or other forms of specific design, equipment, operational or maintenance requirements.

Indicate the monitoring requirements for the control device that are required by an applicable regulation or permit condition.

,	~ A BA	MONITORING	ADDROAGU	COUTEDIA
•	C:AIVI	MONITORING	APPROACH	CRITERIA

E6-3

Complete this section for EACH PSEU and for each affected pollutant that needs to be addressed in this CAM Plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR 64.3 and 64.4. If more than two indicators are being selected for a PSEU or if additional space is need, attach and label with the appropriate PSEU designation, pollutant, and indicator Nos.

-	PSEU DESIGNATION	POLLUTANT	<sup>b</sup> INDICATOR NO. 1	b IND(CATOR NO. 2
7a. General Criteria  Describe the <u>monitoring approach</u> used to measure the indicators.		NOT APPLICABLE because	all CAM applicable PSEUs are incorporated	in previous permit submittals.
	Establish the appropriate indicator range or the procedures for establishing the indicator range which provides a reasonable assurance of compliance			
	Threshold levels.			
7Ъ.	Performance criteria Provide the Specification for Obtaining Representative Data (Such as detector location and installation specifications).  Provide Quality Assurance and Quality Control (QA/QC) Practices that are adequate to ensure the continuing validity of the data, considering manufacturerer's			
	recommendations  * Provide the Monitoring Frequency			
	Provide the <u>Data Collection Procedures</u> that will be used			
	Provide the <u>Data Averaging Period</u> for the purpose of determining whether an excursion or exceedance has occurred.			

If a Continuous Emission Monitoring System (CEMS), Continuous Opacity Monitoring System (COMS), or Predictive Emission Monitoring System (PEMS) is used, then this section need not be completed <u>ONLY</u> for the CEMS, COMS, or PEMS, <u>EXCEPT</u> that the Special Criteria Information of 40 CFR 64.3(d) must be provided. Special Criteria Information may be provided on a separate sheet.

Describe all indicators to be monitored which satisfy 40 CFR 64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

Indicator ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. In addition, unless specifically stated otherwise by an applicable requirement, the owner or operator shall monitor the indicators to detect any <u>bypass</u> of the control delivee (or capture system) to the atmosphere.

The QIP threshold is based on the number of excursions identified in a reporting period. (Example: if the historical monitoring data for a facility indicates that the indicator range was exceeded 10 times in a 6-month period, the threshold could be established at no more than 10 excursions outside the indicator range during a 6-month reporting period.) The threshold levels also could be established based on the duration of excursions as a percentage of operating time.

At a minimum, the owner of a large PSEU must collect four or more data values equally spaced over each hour and average the values. All other PSEUs must collect data at least once per 24-hour period or possibly more to provide reasonable assurance of complliance over the anticipated range of operating conditions.

DATI	IAMAI	EAND	JUSTIFICATION

E6-4

8. Complete this section for <u>EACH</u> PSEU and for each affected pollutant that needs to be addressed in this CAM Plan submittal. This section may be copied as needed. Use this section to provide monitoring data and information for <u>EACH</u> indicator selected for <u>EACH</u> PSEU in order to meet the monitoring design criteria specified in 40 CFR 64.3 and 64.4. If more than two indicators are being selected for a PSEU or if additional speace is needed, attach additional sheets and label with the appropriate PSEU designation, pollutant, and indicator Nos.

PSEU DESIGNATION	POLLUTANT
NOT APPLICABLE	NOT APPLICABLE

9. INDICATORS AND THE MONITORING APPROACH: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data suporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed and the manufacturer's recommendations. (If additional space is needed, attach and label with the appropirate PSEU designation and pollutant).

**NOT APPLICABLE** 

- 10. INDICATOR RANGES: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how <u>EACH</u> indicator range was selected by either a <u>Compliance or Performance Test</u>, a <u>Test Plan and Schedule</u>, or by <u>Engineering Assessments</u>. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label with the appropriate PSEU designation and pollutant):
  - COMPLIANCE or PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance
    test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions.
     Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall <u>include</u> a summary of the
    compliance or performance test results that were used to determine the indicator range and documentation indicating that no changes have taken place that could
    result in a significant change in the control system performance or the selected indicator ranges since the compliance or performante test was conducted and
    approved by DAQ.
  - TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any
    other appropriate activities prior to use of the monitoring). The retionale and justification shall <u>include</u> the proposed implementation plan and schedule that will
    provide for use of the monitoring as expeditiously as practical after approval of this CAM Plan, but in no case shall the schedule for completing installation and
    beginning operation of the minitoring exceed 180 days after approval.
  - ENGINEERING ASSESSMENTS (Indicator ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturer's design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall <u>include</u> documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

NOT APPLICABLE

# Appendix B: Pugmill, Conveyor 25, & Conveyor 25A Emission Calculations and Process Flow Diagram

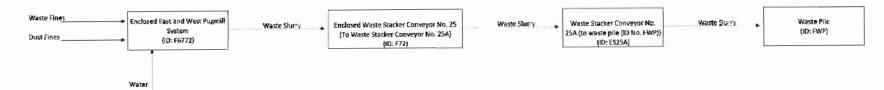
#### Potential Emission Calculations 3M Pittaboro

EU No.	EU or GP Description	CE No.	Pollutant Neme	CAS No. (no dastes)	Max Rate units/hr	Max Rate units	Em Factor	Em Factor Units	Ref. No.	Uncontr Poti to Emit (PTE) (lb/hr)	Uncomir Poti to Emit (PTE) (tpy)	Poli Contr Eff (%)	Contr Poti to Emit (PTE) (tp
F6772	Enclosed East and West Pugmill System	N/A	PM	N/A	250	tons	0.006	ton	1	1.50	6.57		6.57
F6772	Enclosed East and West Pugmill System	N/A	PM10	N/A	250	tans	0,0022	ton	1	0.55	2.41		2,41
F6772	Enclosed East and West Puginfil System	N/A	P7/12_5	N/A	250	lons	0.0022	ton	1	0.55	2,41		2.41
F7 <b>2</b>	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor No. 25A)	N/A	PM	N/A	225	tons	0.003	ton	2	0.675	2.96		2.96
F72	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor No. 25A)	N/A	PM10	N/A	225	tons	0.0011	ton	2	0.248	1.08		1.08
1-72	Enclosed Waste Stacker Conveyor No. 25 (To Waste Stacker Conveyor No. 25A)	N/A	PM2.5	N/A	225	tons	0.0011	to-	2	0.248	1.08		1.08
ES25A	Waste Stacker Conveyor No.25A (to waste pile (IO No. FWP))	N/A	PM	N/A	225	tods	0.003	ton	2	0,675	2.95		2.96
E\$25A	Waste Stacker Conveyor No.25A (to waste pile (ID No. FV/P))	N/A	PM10	N/A	225	tons	0.0011	ton	2	0.248	1.08		1.08
ES25A	Waste Stacker Conveyor No.25A [to waste pile (ID No. FWP))	N/A	PM2.5	N/A	225	tons	0.0011	ton	2	0.248	1.05		1.08

## Emission References 3M Pittsboro

- PM and PM10 emission factors are equal to twice the factor for "Conveyor Transfer Point" from AP-42, Chapter 11.19.2, Table 11.19.2-2 (08/04).
- 2 PM and PM10 emission factors for "Conveyor Transfer Point" from AP-42, Chapter 11.19.2, Table 11.19.2-2 (08/04).

#### Process Flow Diagram 3M Pättsborg



# Appendix C: Pugmill Narrative



### Appendix C: Pugmill Narrative (Request to remove "wet suppression" requirements and language from Draft Title V Operating Permit 09006-T09)

This document provides details on 3M's request to remove all references to and requirements associated with wet suppression as required particulate control for the Enclosed East and West Pugmill (F6772), and for water carryover as required particulate emissions control for the Enclosed Waste Stacker Conveyor No. 25 (F72) and the Waste Stacker Conveyor 25A (ES25A), in draft Title V Operating Permit No. 09006-T09.

Pugmills are industrial mixers used in a variety of applications. 3M Pittsboro uses the Enclosed East and West Pugmill ("Pugmill") to mix rock processing waste from baghouses and other plant waste sources with water. The purpose of the Pugmill at 3M Pittsboro is not for emissions control. The purpose of the Pugmill at 3M Pittsboro is to improve the physical characteristics of the waste for ease of handling and transport. Water addition to the Pugmill for mixing with rock processing waste is inherent to normal Pugmill operation and is not functionally intended for emissions or dust control. Operation of the Pugmill without water addition for mixing would not be considered normal Pugmill operation.

The Operations and Maintenance Manual for the Pugmill (e-mailed to Ms. Judy Lee on May 9, 2022) contains no references to emission or dust control as a purpose for water addition to the Pugmill. Further, there is no reference in the Manual to the Pugmill's purpose as emissions or dust control.

In potential to emit (PTE) calculations submitted by 3M to the Department as part of Appendix C to the 2020 operating permit renewal application, an emission reduction factor for water addition to the pugmill was applied to more closely approximate emissions from the pugmill. This emission reduction factor was labeled "wet suppression" and was incorrectly represented in the PTE calculations as emissions control. Since they are immediately downstream of the Pugmill, the Enclosed Waste Stacker Conveyor No. 25 ("Conveyor 25") and the Waste Stacker Conveyor 25A ("Conveyor 25A") have been represented as controlled by "wet suppression" and "water carryover" in previous permit application documents and PTE calculations. 3M is not required to control emissions from the Pugmill or Conveyors 25 and 25A by wet suppression, water carryover or by any other emissions control mechanism due to permitting thresholds, federal or state emissions standards, or for any other reason.

When the term "wet suppression" is used in NSPS Subpart OOO text, it refers to emissions control (reference 40 CFR 60.674(b)). Emissions control is not required on an NSPS OOO affected facility if applicable emissions limits can be met without it. The Pugmill is a post-2008 NSPS OOO affected facility that does not vent to a control device. Emission points associated with the Pugmill are subject to the NSPS OOO Table 3 opacity limit of 7%. Compliance with this limit was observed at all emission points associated with the Pugmill during NSPS OOO initial performance testing conducted on December 1, 2021. The initial performance testing was conducted during normal Pugmill operation, where rock processing waste was mixed with water as part of the inherent process.

Pursuant to 15A NCAC 02D .0510(c), emissions from crushed stone operations must be controlled such that the applicable emission limits at 15A NCAC 02D .0521 and 15A NCAC 02D .0524 are not exceeded. 15A NCAC 02D .0521(b) defers to the emission limits of 15A NCAC 02D .0524, which is the state regulatory incorporation of federal New Source Performance Standards. The applicable emission limit under 15A NCAC 02D .0524 for the Pugmill is the NSPS OOO emission limit – 7% opacity. Compliance with this limit was demonstrated during NSPS OOO initial performance testing as described above.

To simplify Pugmill, Conveyor 25, and Conveyor 25A PTE calculations and mitigate confusion surrounding the use of the terms "wet suppression" and "water carryover" in permit documents, 3M has updated PTE calculations to remove the emissions reduction factor for water addition to the Pugmill, the control efficiencies for water carryover from Conveyors 25 and 25A, and the capture efficiencies for unit and building enclosures for the Pugmill and Conveyors 25 and 25A. All references to "wet suppression" for the Pugmill, and "wet suppression"/"water carryover" for Conveyors 25 and 25A have been removed from permit application documents, and the draft operating permit renewal has been redlined to remove "wet suppression" and "water carryover" language and requirements. Reference Appendix A for updated application documents. Reference Appendix B for updated Pugmill, Conveyor 25, and Conveyor 25A PTE calculations.

# Appendix D: 21C Application Forms

REVISED	19/17/2014	Title V Minor Modification (Prior to Permit Revision) FORM MINOR MODIFICATION QUALIFICATION CHECKLIST			
¥	This change does not viola	ate any existing requirement in the current Title V air quality permit.			
	This change does not result	it in any significant change in existing monitoring, reporting or recordkosping provisions in my current permit.			
	This change does not requi	ire a case-by-case determination (e.g. BACT)			
	This change is not a modifi	ication under Title Fof the federal Clean Air Act.			
7	This change is not a signific	icent modification. (See 15A NGAC 2Q ,0516)			
J	This change does not requi	mill a change to an existing permit term that was taken to avoid an applicable requirement, (e.g. PSD avoidance condition)			
[7]	This change does not requi	ire a permit under the NC Toxics program.			

#### MINOR MODIFICATION DESCRIPTION

3M Pitisboro proposes to replace equipment ES3537B (M Screener No. 2), ES3637C (M Screener No. 3), ES3537G (M Screener No. 4), and ES3537H (M Screener No. 5) with new M Screeners. The M screeners are used to separate different sizes of crushed aggregate from the Live M Feed Bin and load the screened aggregate onto Conveyor #14, #19, and #21. The replacement is being done due to normal wear that these pieces of equipment experience over servicial years of use. The units will remain connected to existing baghouses (CDB 2 and CDB 4) and a new pick up point will be added but there will be no increase of arithout through the happrouse. The new M Screeners will have larger screening area, but the accessing throughput is limited by upstream conveyors; therefore, no emissions increase will be expected from the replacement. The new M Screeners are subject to 40 CFR Part 60, Subpart COO (NSPS COO).

3M Pitteboro has installed a new crusher to replace an existing crusher unit (G Grusher No. 2, ES2729.2). The replacement is being done due to normal wear that these pieces of equipment experience over governal years of use. C Grusher No. 2B (ES233) will have a larger electric motor, but the throughput is limited by downstream equipment, therefore, no emissions increase will be expected from the replacement. The new crusher is subjected to NSPS 0.00. The unit will remain connected to an existing baghours in subject (CDB5).

3M Pittsbore proposes to install a bypass chute for the cone crusher to allow for screening of material prior to crushing. The C Crusher No. 1 Bypass Chute (ES2426.3) will allow material to be screened prior to crushing to allow any correct sized material to bypass the crusher. There will be no increase to throughput for the conveyor that the bypass chute is discharging to or out of the acreener, therefore, no emissions increase will be expected from the modification. C Crusher No. 1 Bypass Chute (ES2426.3) will discharge aggregate to Undersize conveyor No. 3 (0 screen No. 1 to dryer feed conveyor No. 7) (ES8813D). Screened aggregate would return to the crusher vise C bin feed conveyor No. 4 (0 screen No. 1 to C orusher bin) (ES8813E). The conveyors are subjected to NSPS COO, The units will remain connected to an existing baghouse (CDB 2) with an additional pickup point for the proposed chute.

3M Pittsbord proposes to install a metal diverter chute to remove separated metal from the aggregate. The Converyor No. 6 Metal Diverter Chute (ES2327C) will discharge seperated metal and amail amounts of aggregate out of the building. The proposed equipment are subject to NSPS 000. The proposed diverter chute will be uncontrolled.

3M Pittsboro recently detarmined that D Screen Bin #1 (ES8913A) has a loadout chute (not currently permitted) that is subject to NSPS OCO, The D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No.1 (ES8913A) needs to be emptled for any reason. The other D Screen Bins do not have loadout chutes.

3M Pittsboro is including documentation to demonstrate that Elevator 12 (IS-30) is an insignificant activity per Regulation 15A NCAC 02Q.0503(8). Elevator 12 is not subject to 40 CFR Part 60, Subpart OCO (NSPS OCO).

3kt Pittaboro has changed begindere bag manufacturers that have a different bag filter area then was originally permitted for the site. The updated begindere liker areas are included with this application.

All new units subject to Subpart OOO will undergo initial performance testing for PM and opacity will be completed in accordance with 40 CFR Part 60, Subpart OOO.

Emission Source	ID No.	Applicable Standard	Applicable Requirement	Proposed Monitoring, Recordkeeping, and Reporting
M Screener No. 2	ES3537B	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CFR Part 60, Subpart COO), 15A NCAC 02D .0540	N/A
M Screener No. 3	ES3537C	PM, Visible Emissions	15A NGAC 02D .0510, 15A NGAC 02D .0524 (48 CFR Part 60, Subpart COO), 15A NGAC 02D .0540	NVA
M Screener No. 4	E\$3537G	PM, Visible Emissions	15A NGAC 62D .0510, 15A NCAC 62D .0524 (40 CFR Part 60, Subpart COO), 15A NCAC 62D .0540	NYA
M Screener No. 5	ES3537H	PM. Visible Emissions	15A NGAC 02D .0510, 15A NGAC 02D .0524 (40 CFR Part 60, Subpart 000), 15A NGAC 02D .0540	N/A
Undersize conveyor No. 3 (D screen No. 1 to dryer feed conveyor No. 7)	E\$8913D	PM, Visible Emissions	15A NGAC 02D .0510, 15A NGAC 02D .0624 (40 CFR Part 60, Subpart 000), 15A NGAC 02D .0540	N/A
C bin feed conveyor No. 4 (D screen No. 1 to C crusher bin)	E\$8913E	PM: Visible Emissions	15A NGAC 02D .0610, 15A NGAC 02D .0524 (40 CFR Part 60, Subpart 000), 15A NGAC 02D .0540	N/A
C Crusher No. 2B	ES233	PM. Visible Emissions	15A NGAC 02D .0510, 15A NGAC 02D .0524 (40 CFR Fart 60, Subpart OOO), 15A NGAC 02D .0540	N/A
C Crusher No. 1 Bypass Chute	ES2426.3	PM. Visible Emissions	15A NGAC 02D .0510, 15A NCAC 02D .0524 (40 CFR Part 60, Subport ODO), 15A NCAC 02D .0540	N/A
D Screen Bin No. 1 Loadout Chute	ES8913G	PM. Visible Emissions	15A NGAC 02D .0510, 15A NCAC 02D .0624 (40 CFR Part 60, Subpart 000), 15A NCAC 02D .0540	N/A
Conveyor No. 6 Metal Diverter Chute	ES2327C	PM, Visibja Emissions	15A NGAC 02D .0510, 15A NGAC 02D .0524 (40 CFR Part 60, Subpart OOO), 15A NGAC 02D .0540	N/A
Elevator 12	IS-30	N/A	15A NCAC 02Q,0503(8)	N/A

Source & ID No. Permit Condition Specify Provis	slons Which No Longer Apply	
NIA	Provisions Which No Longer Apply	
IVA		

Upon receipt of the completeness determination letter, you may make the modification in accordance with 15A NCAC 2Q .0515(f). A determination of application completeness by the DAQ is not a determination that each change qualifies as a minor permit modification. It is the responsibility of the applicant not ensure each proposed change meets the order of 15A NCAC 2Q .0515. The applicant sesumes all financial instancial received with construction and operation without a permit revision. You shall comply with both this applicante requirements governing the change and the proposed permit conditions until final action is taken in the permit application. You need not comply with the existing permit terms and conditions of the existing permit that you seek to modify. You must certify compliance with the proposed permit terms on the annual compliance certification. The permit sheld in 15A NCAC 2Q .0512(a) does not evaluate to the proposed permit terms and conditions of the existing permit that you seek to modify. You must certify compliance with the proposed permit terms on the annual compliance certification. The permit sheld in 15A NCAC 2Q .0512(a) does not evaluate the proposed permit terms and conditions that the permit sheld in 15A NCAC 2Q .0512(a) does not evaluate the proposed permit terms and conditions that the permit sheld in 15A NCAC 2Q .0512(a) does not evaluate the proposed permit terms and conditions that the permit sheld in 15A NCAC 2Q .0512(a) does not evaluate the proposed permit terms and conditions that the permit sheld in 15A NCAC 2Q .0512(a) does not evaluate the permit sheld the p

#### FORMs A2, A3

# EMISSION SOURCE LISTING FOR THIS APPLICATION - A2 112r APPLICABILITY INFORMATION - A3

REVISED 09/22/16	NCDEQ/Division of Air Quality - Applicati			AZ
	EMISSION SOURCE LISTING: New, Modified	, Previously Unpe	ermitted, Replaced, Deleted	
EMISSION SOURCE	EMISSION SOURCE	CONTROL DEVICE	CONTROL DEVICE	
ID NO. DESCRIPTION		ID NO. DESCRIPTI		
E	quipment To Be ADDED By This Application	(New, Previously	Unpermitted, or Replacement)	
ES2426.3	C Crusher No. 1 Bypass Chute	CDB1	Crusher baghouse No. 1 (6,178 square feet of	filter area)
ES8913G	D Screen Bin No. 1 Loadout Chute	N/A	N/A	
ES2327C	Conveyor No. 6 Metal Diverter Chute	N/A	N/A	
	Existing Permitted Equipment To E	e MODIFIED B	y This Application	
ES3537B	M Screener No. 2	CDB2	Screen baghouse No. 1 (11,296 square feet of	f filter area)
ES3537C	M Screener No. 3	CDB2	Screen baghouse No. 1 (11,296 square feet of	f filter area)
ES3537G	M Screener No. 4	CDB4	Screen baghouse No. 2 (9,002 square feet of filter area)	
ES3537H	M Screener No. 5	CDB4	Screen baghouse No. 2 (9,002 square feet of filter area)	
ES8913D	Undersize conveyor No. 3 (D screen No. 1 to dryer feed	CDB2	Screen baghouse No. 1 (11,296 square feet of filter are	
ES8913E	C bin feed conveyor No. 4 (D screen No. 1 to C crusher bin)	CDB2	Screen baghouse No. 1 (11,296 square feet of filter area)	
E8233	C Crusher No. 2B	CDB5	Crushing Baghouse No. 2 (4,942 square feet of filter area)	
CDB1	Crushing Baghouse No. 1	CDB1	Crusher baghouse No. 1 (6,178 square feet of filter area)	
CDB2	Screen Baghouse No. 1	No. 1 CDB2 Screen baghouse No. 1 (11,296 s		f filter area)
CDB3	Dryer Baghouse	CDB3	Dryer Baghouse (12,002 square feet of filter area)	
CDB4	Screen Baghouse No. 2	CDB4	Screen baghouse No. 2 (9,002 square feet of filter area)	
CDB5	Crushing Baghouse No. 2	CDB5	Crushing Baghouse No. 2 (4,942 square feet of filter area)	
CDB6	Grade Baghouse	CDB6	Grade Baghouse (4,942 square feet of filter area)	
CDB7	Waste Handling Baghouse	CDB7	Waste Handling Baghouse (2,648 square feet of filter area)	
CDB8	Raw Granule Baghouse	CDB8	Raw Granule Baghouse (5,472 square feet of filter area)	
CDB9	Preheater Baghouse No. 1	CDB9	Preheater Baghouse No. 1 (6,354 square feet of filter area)	
CDB10	Preheater Baghouse No. 2	CDB10	Preheater Baghouse No. 2 (6,354 square feet of filter area)	
CDB11	Mixer Baghouse No. 1	CDB11	Mixer Baghouse No. 1 (2,648 square feet of filter area)	
CDB12	Mixer Baghouse No. 2	CDB12	Mixer Baghouse No. 2 (2,648 square feet of filter area)	
CDB13	Kiln 1 Baghouse	CDB13	Kiln 1 Baghouse (10,590 square feet of filter area)	
CDB14	Kiln 2 Baghouse	CDB14	Kiln 2 Baghouse (10,590 square feet of filter area)	
CDB15	Finished Granule Baghouse	CDB15	Finished Granule Baghouse (5,825 square feet of filter area)	
	Equipment To Be DELE	TED By This App	lication	- 4
ES2729,2	G Crusher No. 2			

112(r)	<b>APPLICABILITY</b>	INFORMATION	A 3		
Is your facility subject to 40 CFR Part 68 "Prevention of Accidenta	I Releases" - Section 112(	r) of the Federal Clean Air Act?	Yes V No		
If No, please specify in detail how your facility avoided applicabilit	y: Faci	Facility is subject to RMP regulations under the general provisions, but no			
requirements are triggered as the facility's inventory is not higher	than the threshold quantity				
If your facility is Subject to 112(r), please complete the following:					
A. Have you already submitted a Risk Management Plan (RM	P) to EPA Pursuant to 40 (	CFR Part 68.10 or Part 68.150?			
Yes No Specify required RMP so	ıbmittal date:	If submitted, RMP submittal date:			
B. Are you using administrative controls to subject your facility	to a lesser 112(r) program	n standard?			
Yes No If yes, please specify:					
C. List the processes subject to 112(r) at your facility:					
PROCESS DESCRIPTION	PROCESS LEVEL (1, 2, or 3)	HAZARDOUS CHEMICAL	MAXIMUM INTENDED INVENTORY (LBS)		

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/DIVI	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate	:		В
EMISSION SOURCE DESCRIPTION:			_	EMISSION S	OURCE ID NO	ES3537B		
M Screener No. 2					EVICE ID NO			
OPERATING SCENARIO 1	OF	1		-	OINT (STACK)	-		
DESCRIBE IN DETAILTHE EMISSION SOURCE	PROCESS	ATTACH FLOW DIAGRAN	1):		01111 (01)10119	10 110(0): 117		
ES 3537 - Loading crushed aggregate from Live I	v Feed Bin (E	S340B) to all 6 M Screene	rs. This emiss	ion source als	o includes load	out from the M	Screeners on	to the
following; Waste Conveyor No. 21 (ES3537F), G	rade Collectir	ig Conveyor No. 19 (ES353	37E) and L Cru	isher Feed Bin	Conveyor No.	14 (ES3537D)	. Control device	e for M
Screeners (No. 1 through 3) and (No. 4 through 6	) processes is	s CDB2 and CDB4, respect	ively.					
TYPE OF EMISSION S	OURCE (CH	ECK AND COMPLETE AP	PROPRIATE F	ORM 81-89 (	ON THE FOLLS	OWING PAGE	5):	
Coal,wood,cil, gas, other burner (Form B1)	,	☐ Woodworking (Form					coatings/inks (	Form B7)
Int.combustion engine/generator (Form B2)		Coating/finishing/prin	•	)		ration (Form B	-	,
Liquid storage tanks (Form B3)		Storage silos/bins (Fe		,		(Form B9)	-,	
START CONSTRUCTION DATE: TBD			DATE MANU	FACTURED: 1	BD			
MANUFACTURER / MODEL NO.: N/A			EXPECTED (	OP. SCHEDUL	.E: 24 HR/0	DAY 7 D.	AY/WK 52	WK/YR
IS THIS SOURCE SUBJECT TO? ✓ NSPS	(SUBPARTS	i?); 000		1 1	AP (SUBPART			
PERCENTAGE ANNUAL THROUGHPUT (%): D	EC-FEB 25	MAR-MAY 25	JUN-AU		SEP-NOV			
CRITERIA	AIR POL	LUTANT EMISSION:	S INFORMA	TION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	D ACTUAL	I	POTENTIAL	EMISSIONS	•
		EMISSION		ROLS/LIMITS)	(BEFORE CONT		(AFTER CONTI	ROLS/LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-42			18.83	82.45	5.65E-03	2.47E-02
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42		<u> </u>	6,55	28.69	5.24E-03	2.30E-02
PARTICULATE MATTER<2.5 MICRONS (PM2.5)								
SULFUR DIOXIDE (\$O2)								
NITROGEN OXIDES (NOx)				†				
CARBON MONOXIDE (CO)					1			
VOLATILE ORGANIC COMPOUNDS (VOC)				1	_			
LEAD				1				
OTHER								
HAZARDO	US AIR PC	LLUTANT EMISSIO	NS INFORM	NATION FO	R THIS SO	URCE		
		SOURCE OF	EXPECTE	D ACTUAL	[	POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	Jb/hr	tons/yr	lb/hr	tons/yr
		_					Ī	
						.,		
TOXIC	AIR POLL	UTANT EMISSIONS I	NFORMAT	ION FOR T	HIS SOUR	CE		
			EXPE	CTED ACTUAL	. EMISSIONS	AETER CONTI	POLS / LIMITA	PIONS
		SOURCE OF EMISSION			· Emporence	W 12100111		mone
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	lb.	/hr_	lb/c	lay	lb/	уr
							_	
Attechments: (1) emissions calculations and supporting these are monitored and with what frequency; and (3) de-	documentation;	(2) indicate all requested state	and federal enf	orceable permit	limits (e.g. hours	of operation, em	ission rates) and	describe how

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/Divis	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate		- 1	_ B	
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO	: E83537C			
M Screener No. 3				CONTROL D	EVICE ID NO(	B): CDB2			
OPERATING SCENARIO 1	OF	1			OINT (STACK)	•	١		
DESCRIBE IN DETAILTHE EMISSION SOURCE ES 3537 - Loading crushed aggregate from Live I following; Waste Conveyor No. 21 (ES3537F), G Screeners (No. 1 through 3) and (No. 4 through 6	M Feed Bin (B rade Collectir	ES340B) to all 6 M Screene ig Conveyor No. 19 (ES353	rs. This emiss 17E) and L Cru	ion source als isher Feed Bin	o includes load i Conveyor No.	out from the M 14 (ES3537D)	Screeners ont Control device	o the e for M	
TYPE OF EMISSION S	OURCE (CH	ECK AND COMPLETE APP	PROPRIATE	ORM B1-B9	ON THE FOLL	OWING PAGES	S):		
Coal,wood,oil, gas, other burner (Form B1)		☐ Woodworking (Form					coatings/inks (	Form B7)	
Int.combustion engine/generator (Form B2)		Coating/finishing/prin	ting (Form B5	)	Incine	ration (Form Bi	8)	•	
Liquid storage tanks (Form B3)		Storage sitos/bins (Fo	orm B6)	•	Uther	(Form B9)	•		
START CONSTRUCTION DATE: TBD			DATE MANU	FACTURED:	TBD				
MANUFACTURER / MODEL NO.: N/A			EXPECTED (	OP, SCHEDUL	.E: <u>24</u> HR/D	AY 7 D	AY/WK52	WK/YR	
IS THIS SOURCE SUBJECT TO? V NSPS	(SUBPARTS	3?): 000			AP (SUBPART				
PERCENTAGE ANNUAL THROUGHPUT (%): D	EC-FEB 25	MAR-MAY 25	JUN-AU		SEP-NOV		<u>-</u>		
CRITERIA	AIR POL	<b>LUTANT EMISSIONS</b>	INFORM/	ATION FOR	THIS SOU	RČE		ACT AND	
		SOURCE OF	ЕХРЕСТЕ	D ACTUAL	Ī	POTENTIAL	EMISSIONS		
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	OLS / LIMITS)	
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	
PARTICULATE MATTER (PM)		AP-42			18.83	82.45	5.65E-03	2.47E-02	
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42			6.55	28.69	5.24E-03	2.30E-02	
PARTICULATE MATTER<2.5 MICRONS (PM2.5)									
SULFUR DIOXIDE (SO2)									
NITROGEN OXIDES (NOx)									
CARBON MONOXIDE (CO)									
VOLATILE ORGANIC COMPOUNDS (VOC)									
LEAD								-	
OTHER									
HAZARDO	US AIR PC	LLUTANT EMISSIOI	NS INFORI	NATION FO	OR THIS SO	URCE			
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS		
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	OLS / LIMITS)	
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	
								.,	
				<u> </u>					
				1					
·					<u> </u>				
				ļ					
				<b>.</b>	<u> </u>				
TOXIC	AIR POLL	UTANT EMISSIONS I	NFORMAT	ION FOR 1	HIS SOUR	E	1 3		
		SOURCE OF EMISSION	EXPE	CTED ACTUA	L EMISSIONS /	AFTER CONTI	ROLS / LIMITA	TIONS	
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	lic	/hr	lb/c	lay	lb/	yr	
Attachments: (1) emissions calculations and supporting these are monitored and with what frequency; and (3) de	documentation; scribe any mor	(2) indicate all requested state nitoring devices, gauges, or tes	and federal ent t ports for this s	forceable permit ource.	limits (e.g. hours	of operation, en	nission rates) and	describe how	

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/Divis	sion of Air Quality - Applic	cation for Air	Permit to Con	struct/Operate	•		В
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO	: ES3537G		
M Screener No. 4				_	EVICE ID NO(			
OPERATING SCENARIO1_	OF				OINT (STACK)	<del>_</del>		
DESCRIBE IN DETAILTHE EMISSION SOUR ES 3537 - Loading crushed aggregate from Lin following; Waste Conveyor #21 (ES3537L), G device for M Screeners (No. 1 through 3) and	ve M Feed Bin (E rade Collecting (	- ES340B) to all 6 M Screene Conveyor 19 (ES3537K), L	rs, This emis: Crusher Feed	sion source als I Bin Conveyor	o includes load	out from the M	Screeners ont	to the 3. Control
TYPE OF EMISSION	N SOURCE (CH	ECK AND COMPLETE API	PROPRIATE	FORM B1-B9	ON THE FOLL	WING PAGE	S):	
Coal,wood,oil, gas, other burner (Form B	1)	Woodworking (Form	B4)		Manuf	. of chemicals/	coatings/inks (	(Form B7)
Int.combustion engine/generator (Form B	2)	Coating/finishing/prin	iting (Form Bé	5)	Incine	ation (Form B	3)	
Liquid storage tanks (Form B3)		Storage sitos/bins (Fo	orm B6}		[] Other	(Form B9)		
START CONSTRUCTION DATE; TBD			DATE MANU	JFACTURED: 1	rBD			
MANUFACTURER / MODEL NO.: N/A			EXPECTED OP. SCHEDULE: 24 HR/DAY 7 DAY/WK					
IS THIS SOURCE SUBJECT TO?	PS (SUBPARTS	5?):000		☐ NESH	AP (SUBPART	S?):		
PERCENTAGE ANNUAL THROUGHPUT (%)		MAR-MAY 25	JUN-A		SEP-NOV			
CRITE	RIA AIR POL	LUTANT EMISSIONS	S INFORM	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECT	ED ACTUAL		POTENTIAL	EMISSIONS	·
		EMISSION	(AFTER CON	TROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-42			18,83	82.45	5.65E-03	2.47E-02
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42			6.55	28.69	5,24E-03	2.30E-02
PARTICULATE MATTER<2.5 MICRONS (PM2.5)								
SULFUR DIOXIDE (SO2)			]					
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD	_	, 0 %					i	Į
OTHER		<u></u>		<u> </u>				
HAZARD	OUS AIR PO	DLLUTANT EMISSIO	NS INFOR	MATION FO	R THIS SO	URCE		AC CONTRACT
		SOURCE OF	EXPECT	ED ACTUAL	1	POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CON	TROLS / LIMITS)	(BEFORE CONT	ROLS / LIMIT'S)	(AFTER CONTR	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	_tons/yr	lb/hr	tons/yr
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	_ <u>_</u>							
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			_	<b>-</b>				
				<del>                                     </del>				
TOW	0.4/0.001	ITALIT ELECTIONS	1150 5474					
IOXI	C AIR POLL	UTANT EMISSIONS	NFORMA	TION FOR 1	HIS SOUR	E		11'-4
		SOURCE OF EMISSION	EXPE	CTED ACTUA	EMISSIONS /	AFTER CONT	ROLS / LIMITA	TIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	ī	b/hr	tb/d	lav	lb/	lvr
		Î		<u></u>	,			<u> </u>
	1			_				
	i							
			]			i		
Attachments: (1) emissions calculations and support	ing documentation:	(2) indicate all requested state	and federal er	forceable permit	limits (e.a. hours	of operation, err	ission rates) and	describe how
these are monitored and with what frequency; and (3	) describe any mor	nitoring devices, gauges, or tes	t ports for this s	source.	1-191 11-21	-j,-1111 VII		

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/DIVI	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate	•		В	
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO	: ES3537H			
M Screener No. 5				CONTROL D	EVICE ID NO	S): CD84			
OPERATING SCENARIO1	OF	1		1	OINT (STACK)		4		
DESCRIBE IN DETAILTHE EMISSION SOU	RCE PROCESS	ATTACH FLOW DIAGRAM	1):						
ES 3537 - Loeding crushed aggregate from L following: Waste Conveyor #21 (ES3537L),	Grade Collecting (	Conveyor 19 (ES3537K), L	Crusher Feed	Bin Conveyor	o includes load No.14 (ES353)	out from the M 7J), and Feed	l Screeners onto Conveyor No. 6	o the i. Control	
device for M Screeners (No. 1 through 3) and	l (No. 4 through 6	) processes is CDB2 and C	DB4, respecti	vely.					
TYPE OF EMISSIO	N SOURCE (CH	ECK AND COMPLETE API	PROPRIATE	FORM B1-B9 (	ON THE FOLLS	OWING PAGE	\$):		
Coal,wood,oil, gas, other burner (Form I		☐ Woodworking (Form					/coatings/inks (f	Form 87)	
Int.combustion engine/generator (Form	B2)	Coating/finishing/prin	ting (Form B5	6)	Incine	ration (Form B	8)		
Liquid storage tanks (Form B3)		Storage silos/bins (Fe	orm B6)		Other	(Form B9)			
START CONSTRUCTION DATE: TBD			DATE MANU	FACTURED:	1				
MANUFACTURER / MODEL NO.: N/A					LE: <u>24</u> HR/8	DAY 7 D	AY/WK 52	WK/YR	
IS THIS SOURCE SUBJECT TO?	SPS (SUBPARTS				AP (SUBPART				
PERCENTAGE ANNUAL THROUGHPUT (%		MAR-MAY 25	JUN-AL		SEP-NOV				
		LUTANT EMISSIONS							
		SOURCE OF	<del></del>	D ACTUAL			EMISSIONS		
		EMISSION		(ROLS / LIMITS)	(DESCRE CONT				
AIR POLLUTANT EMITTED		FACTOR			(BEFORE CONT		(AFTER CONTR		
PARTICULATE MATTER (PM)		AP-42	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	
PARTICULATE MATTER<10 MICRONS (PM10		AP-42		-	18.83 6.55	82.45 28.69	5.65E-03 5.24E-03	2.47E-02	
PARTICULATE MATTER<2.5 MICRONS (PM2.		MF-442	_	-	0.50 25,09 3,24E-03			2.30E-02	
SULFUR DIOXIDE (SO2)	5.)	-		-					
NITROGEN OXIDES (NOx)									
CARBON MONOXIDE (CO)									
VOLATILE ORGANIC COMPOUNDS (VOC)					-				
LEAD	<del></del>			-	-				
OTHER	00110 410 01	MILLITANT FAMORIO	NO MEAN						
HAZAR	DOUS AIR PC	DLLUTANT EMISSIO			OR THIS SO				
		SOURCE OF	EXPECTE	D ACTUAL	1	POTENTIAL	EMISSIONS		
L		EMISSION		ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	(OLS / LIMITS)	
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	
				-					
TOX	IC AIR POLL	UTANT EMISSIONS I	NEORMAT	TION FOR T	HIS SOUR	CF.		- C C-	
							ROLS / LIMITA	TIONS	
TOXIC AIR POLLUTANT	CAS NO.	SOURCE OF EMISSION FACTOR		y/hr	lb/c		lb/)		
	7,51,0	77.0701		,,,,,	i i i i i i i i i i i i i i i i i i i		(0/)	<u>r</u> '	
	-								
						N			
Attachments: (1) emissions calculations and supporthese are monitored and with what frequency; and (	rting documentation; 3) describe any mod	(2) Indicate all requested state altering devices, gauges, or tes	and federal en t ports for this s	forceable permit ource,	timits (e.g. hours	of operation, en	nission rates) and	describe how	

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/DIvi:	sion of Air Quality - Appli	ication for Air	Permit to Con	struct/Operate	<del>į</del>	L	В
EMISSION SOURCE DESCRIPTION:	-			EMISSION S	OURCE ID NO	: ES8913D		
Undersize conveyor No. 3 (D screen No. 1 t	to dryer feed conve	yor No. 7)			EVICE ID NO(	<del></del>		
OPERATING SCENARIO1_	OF	1		EMISSION P	OINT (STACK)	ID NO(S): N/A		
DESCRIBE IN DETAILTHE EMISSION SO ES 8913 - Crushed greenstone aggregate f loadout Into O Screen No.1 Feeder (ES891 Screen No.1 to C Crusher Bin) (ES8913E) of	from Product Conve 3B) and through to	eyor No.3 (C crusher to D s D Screen No.1 (ES8913C	screen bin No. ). From D Scre	en No.1, the ag	ggregate either	3in 1 (ES8913A goes onto C Bi	t). D Feed Bin 1	1 (ES8913A) yor No. 4 (D
TVDE OF EMICE	PON POUDCE (OU	ECK AND COMPLETE AF	NOODDIATE I	COOL D4 D0 /	NI THE FOLLA			
Coal,wood,oil, gas, other burner (Form		Woodworking (Form		FURM B1-B9			•	FT
Int.combustion engine/generator (Forn	•	Coating/finlshing/pri				ration (Form B8	coatings/inks (F	-Offili Br)
Liquid storage tanks (Form B3)	11 02)	Storage silos/bins (F		"	U Other		(د	
START CONSTRUCTION DATE: 1970			<del></del>	JFACTURED:1		(i dilii bo)		
MANUFACTURER / MODEL NO.: N/A					.E: <u>24</u> HR/E	34V 7 D	AY/WK 52	WK/YR
	NSPS (SUBPARTS	S?): 000	JEAFLOTED		AP (SUBPART		31/WK32_	WINTE
PERCENTAGE ANNUAL THROUGHPUT (		MAR-MAY 25	JUN-AL		SEP-NOV		-	
		LUTANT EMISSION					- 1 -	ALINE,
		SOURCE OF		D ACTUAL	17.50 000	POTENTIAL	ENIBOIONO	
		EMISSION	<b>—</b>	TROLS/LIMITS)	(BEFORE CONT		(AFTER CONTRO	OLG (LIMITG)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr		fb/hr tons/yr lb/hr		
PARTICULATE MATTER (PM)	<del></del>	AP-42	10/11	tonaryi	1.61	7.03	4.81E-04	tons/yr 2,11E-03
PARTICULATE MATTER<10 MICRONS (PM	10)	AP-42	1	<del>                                     </del>	0.59	2.58	4.71E-04	2,06E-03
PARTICULATE MATTER<2,5 MICRONS (PM	137		1	1		2.55		2,002-00
SULFUR DIOXIDE (SO2)			1	t				
NITROGEN OXIDES (NOx)			<del></del>					
CARBON MONOXIDE (CO)				Î				
VOLATILE ORGANIC COMPOUNDS (VOC	;)						$\neg \neg$	_
LEAD								
OTHER								
HAZAI	RDOUS AIR PO	DLLUTANT EMISSIC	NS INFOR	MATION FO	R THIS SO	URCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	FROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTRO	OLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
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				ļ				
				<u> </u>		1		
				-				
TO	VIC AID DOLL	UTANT ENICOIONIC	MEODIA	FIGN FOR T	11/0 00//0	-		
10	XIC AIR POLL	UTANT EMISSIONS	INFORMA	TON FOR I	HIS SOUR	<i>,</i> E		
		SOURCE OF EMISSION		CTED ACTUA	L EMISSIONS A	AFTER CONTR	ROLS / LIMITAT	FIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	It	o/hr	lb/d	lay	lb/y	/r
		ļ	<del>                                      </del>	_				
			1					
		_	<del>                                     </del>					
			<del>                                     </del>					
				_		$\longrightarrow$		
AM		100						
Attachments: (1) emissions calculations and supp	corting documentation	; (2) indicate all requested state	te and federal en	forceable permit	limits (e.g. hours	of operation, em	ission rates) and	describe how

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/DIvi:	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate	•		В
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO	: E\$8913E		
C Bin Feed Conveyor No. 4 (D screen No. 1 to 6	C Crusher Bin)			$\overline{}$	EVICE ID NO(			
OPERATING SCENARIO1	OF	1			DINT (STACK)			
DESCRIBE IN DETAILTHE EMISSION SOURCE	E PROCESS	ATTACH FLOW DIAGRAM	M):			(_)		
ES 8913 - Crushed greenstone aggregate from	Product Conve	yor No.3 (C crusher to D so	reen bin No. 1	I) (ESC3) loads	out to D Feed E	3in 1 (ES8913/	4). D Feed Bin	1 (ES8913A)
loadout Into D Screen No.1 Feeder (ES8913B)	and through to	D Screen No.1 (ES8913C).	. From D Scree	on No.1, the ag	gregate either	goes onto C B	in Feed Conve	yor No. 4 (D
Screen No.1 to C Crusher Bin) (ES8913E) or U	ndersize conve	yor Na. 3 (Discreen No. 1 to	o dryer feed co	nveyor No. 7)	(ES8913D).			
TOTAL OF EMISSION	2011225 (211	TOU						
l <b>—</b>		ECK AND COMPLETE AP		ORM B1-B9 C	F		•	
Coal,wood,oil, gas, other burner (Form B1)		Woodworking (Form	•		<u>·</u>		/coatings/inks (	(Form B7)
Int.combustion engine/generator (Form B2	)	Coating/finishing/prin		)		ration (Form B	8)	
Liquid storage tanks (Form B3)		Storage silos/bins (Fi				(Form B9)		
START CONSTRUCTION DATE: 1970				FACTURED:19				
MANUFACTURER / MODEL NO.: N/A			EXPECTED	OP. SCHEDUL			AY/WK <u>52</u>	_WK/YR
	S (SUBPARTS				AP (SUBPART	S?):	· - <u>-</u> ·	
PERCENTAGE ANNUAL THROUGHPUT (%):		MAR-MAY 25	JUN-AU		SEP-NOV			
CRITER	IA AIR POL	LUTANT EMISSIONS	SINFORMA	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	D ACTUAL	<u> </u>	POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(SEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr				tons/yr
PARTICULATE MATTER (PM)		AP-42		L	1.61 7.03 4.81E-04 0.59 2.58 4.71E-04			2,11E-03
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42			0.59 2.58 4.71E-04			2,06E-03
PARTICULATE MATTER<2,5 MICRONS (PM <sub>2,5</sub> )								
SULFUR DIOXIDE (SO2)	_					_		
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD								
OTHER								
HAZARDO	OUS AIR PO	LLUTANT EMISSIO	NS INFORI	NATION FO	R THIS SO	URCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIM(TS)	(AFTER CONTR	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	tb/hr	tons/yr
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	1		1					
	1							
				- 0				
			1					
TOXIC	AIR POLL	UTANT EMISSIONS	<b>INFORMAT</b>	ION FOR T	HIS SOUR	CE		
	T							
	4 -	SOURCE OF EMISSION	EXPE	CIED ACTUAL	. EMISSIONS	AFTER CONTI	ROLS / LIMITA	TIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	Ib	/hr	1b/s	day	lb/	/vr
	1					•		
	1				ĺ			
	1							
		T						
-		ĺ						
Attachments: (1) emissions calculations and supporting	a documentation	(2) indicate all renuncted state	and faderal on	forceable nermit	limits (e.a. bouw	of operation on	nission rates) co	d deephha have
these are monitored and with what frequency; and (3)						politicon, Oli		

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	ICDEQ/Divis	ion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate	•		В
EMISSION SOURCE DESCRIPTION:				TEMISSION S	OURCE ID NO	ES233		
C Crusher No. 2B				CONTROL D	EVICE ID NO(S	S): CDB5		
OPERATING SCENARIO1	OF	1			DINT (STACK)	•		
DESCRIBE IN DETAILTHE EMISSION SOURCE		ATTACH ELOW DIAGRAM	)·	Linioole   11	BIIT (BIHON)	15 140(0): 147	·	
Crushed aggregate is conveyed from G Crusher F-				eed Bin No.1 to	G Crusher No	o.1) into C Crus	sher No. 2B (E	S233) for
secondary crushing of the aggregate. Aggregate fr								
(ES16-C).					•			·
TYPE OF EMISSION SA	NIBCE /CHE	CK AND COMPLETE APP	DODDIATE I	FORM R4 R6 C	N THE FOLL	MINO DAGE	<u></u>	
Coal,wood,oil, gas, other burner (Form B1)	JONGE (GNE	Woodworking (Form I		- CKIN B1-69 C			o). (coatings/inks (	(Form 87)
Int.combustion engine/generator (Form B2)		Coating/finishing/print	,	•		ation (Form Bi	•	, om bij
Liquid storage tanks (Form B3)		Storage silos/bins (Fo		'}		auon (conn 6) (Form 89)	3)	
<del></del>		<u> </u>	ns (Form B6)					
START CONSTRUCTION DATE: TBD								11444
MANUFACTURER / MODEL NO.: N/A								WK/YR
	(SUBPARTS							
PERCENTAGE ANNUAL THROUGHPUT (%): DE		MAR-MAY 25			SEP-NOV			
CRITERIA	AIR POL	LUTANT EMISSIONS	INFORM	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	FROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTE	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	∮b/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-42			1.62	7.10	4.86E-04	2.13E-03
PARTICULATE MATTER<10 MICRONS (PM <sub>10</sub> )		AP-42		İ	0.72	3.15	5.76E-04	2.52E-03
PARTICULATE MATTER<2.5 MICRONS (PM <sub>z,5</sub> )								
SULFUR DIOXIDE (SO2)								
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD			_					
OTHER	-	= = = = = = = = = = = = = = = = = = = =						
HAZARDOU	IS AIR PO	LLUTANT EMISSION	VS INFOR	MATION FO	R THIS SO	URCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION		(ROLS / LIMITS)	(BEFORE CONT		(AFTER CONTE	ROUS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
				†,	1,2,1,1	torra.yr	7	12.12.77
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				<del>}</del>				
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<u> </u>				<del>                                     </del>				
<del></del>				<del>                                     </del>				
<del>-</del>				+				
TOYIC	ID POLL	ITANT EMISSIONS I	NEODMAT	TION FOR T	HIS SOLID	re .		
TOXICA	WAY TOLL	MART EMISSIONS	TO NIVER	TON FOR T	mo sount	JE		
			EXPE	CTED ACTUAL	EMISSIONS	AFTER CONT	ROLS / LIMITA	ATIONS
TOXIC AIR POLLUTANT	CAS NO.	SOURCE OF EMISSION FACTOR	11		lh to	da	154	J. au
TOXIC AIR FOLLUTANT	CAS NO.	PACTOR	- 16		10/0	day	19/	/yr
					<u> </u>		<b> </b>	
					<u> </u>			
<del></del> -								
<del>  </del>								
						:		
Attachments: (1) emissions calculations and supporting of these are monitored and with what frequency; and (3) de-					limits (e.g. hours	of operation, en	ilssion rates) and	d describe how

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/DIvis	sion of Air Quality - Applic	cation for Air	Permit to Con	struct/Operate	•		В
EMISSION SOURCE DESCRIPTION:	<del></del>			EMISSION S	OURCE ID NO	: E\$2426.3		
C Crusher No.1 Bypass Chute				CONTROL D	EVICE ID NO(	S): CDB1		
OPERATING SCENARIO1_	OF	1		EMISSION P	OINT (STACK)	ID NO(S): N/A		
DESCRIBE IN DETAILTHE EMISSION SOUR The C Crusher No. 1 Bypass Chute (ES2426.3 No. 1) (ESC3) for screening prior to crushing.				•				o O screen bin
TYPE OF EMISSION	N SOURCE (CH	ECK AND COMPLETE AP	PROPRIATE I	FORM B1-B9 (	N THE FOLL	OWING PAGE	S):	
Coal,wood,oil, gas, other burner (Form B	1)	Woodworking (Form	B4)		Manut	of chemicals/	coatings/inks	(Form B7)
Int.combustion engine/generator (Form B	2)	Coating/finishing/prin	nting (Form B5	i)	Incine	ration (Form B	8)	
Liquid storage tanks (Form B3)		Storage silos/bins (F	arm B6)			(Form B9)		
START CONSTRUCTION DATE: TBD			DATE MANU	JFACTURED: 1	BD			
MANUFACTURER / MODEL NO.:			EXPECTED	OP. SCHEDUL	.E: <u>24</u> HR/I	DAY7_D	AY/WK <u>52</u>	_WK/YR
IS THIS SOURCE SUBJECT TO? NS	PS (SUBPARTS	\$?): <u> </u>		NESH.	AP (SUBPART	S?):		
PERCENTAGE ANNUAL THROUGHPUT (%)		MAR-MAY 25	JUN-AL		SEP-NOV		<u> </u>	
CRITE	RIA AIR POL	LUTANT EMISSION:	S INFORM,	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	ED ACTUAL	-	POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	FROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	ib/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-42			1.61	7.03	1.00E-03	6.00E-03
PARTICULATE MATTER<10 MICRONS (PM <sub>10</sub> )		AP-42		1	0.59	2.58	5.00E-04	2.00E-04
PARTICULATE MATTER<2.5 MICRONS (PM2.5)	)							
SULFUR DIOXIDE (SO2)				Ţ				
NITROGEN OXIDES (NOx)				1				
CARBON MONOXIDE (CO)				Ì				
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD								·
OTHER			No. of the state o					
HAZARD	OUS AIR PO	DLLUTANT EMISSIO	NS INFORI	MATION FO	R THIS SO	URCE		المالات
	1	SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	FROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	ROLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
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				_				
				ļ	[			
TOXI	C AIR POLL	UTANT EMISSIONS	INFORMAT	TION FOR 1	HIS SOUR	CE		
		SOURCE OF EMISSION	EXPE	CTED ACTUAL	EMISSIONS	AFTER CONT	ROLS / LIMITA	ATIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	IE	o/hr	Ib/d	day	lb.	/уг
				_	İ			<del></del>
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	1							
							_	
						-6		
Attachments: (1) emissions calculations and support these are monitored and with what frequency; and (3					Ilmits (e.g. hours	of operation, en	nission rates) and	d describe how

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/Divis	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate			В
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO:	ES8913G		
D Screen Bin No. 1 Loadout Chute					EVICE ID NO(5			
OPERATING SCENARIO 1	OF	1			OINT (STACK)	,		
DESCRIBE IN DETAILTHE EMISSION SOURCE D Screen Bin No. 1 Loadout Chute (ES8913G)		•						
TYPE OF EMISSION	SOURCE (CH	ECK AND COMPLETE API	PROPRIATE I	ORM B1-B9	ON THE FOLLO	WING PAGES	5):	
Coal,wood,oil, gas, other burner (Form B1)	•	Woodworking (Form	B4)		Manuf	of chemicals/	coatings/inks (	Form B7)
Int.combustion engine/generator (Form 82	>	Coating/finishing/prin	ting (Form 85	)	Inciner	ation (Form B	3)	
Liquid storage tanks (Form B3)		Storage silos/bins (Fo	orm B6)		Other in	(Form B9)		
START CONSTRUCTION DATE: 1970			DATE MANU	FACTURED:1	970			
MANUFACTURER / MODEL NO.:	Lea I		EXPECTED	OP. SCHEDU	E: 24 HR/C	AY7_D	AY/WK 52	WK/YR
IS THIS SOURCE SUBJECT TO? <a>V</a> NSP	S (SUBPARTS	3?):000		NESH	AP (SUBPART	S7):		
PERCENTAGE ANNUAL THROUGHPUT (%):		MAR-MAY 25	JUN-AL		SEP-NOV			
CRITER	IA AIR POL	LUTANT EMISSIONS	INFORM/	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-42			1.08	4.73	1.08	4.73
PARTICULATE MATTER<10 MICRONS (PM <sub>10</sub> )		AP-42			0.40	1.73	0.40	1.73
PARTICULATE MATTER<2.5 MICRONS (PM <sub>2.5</sub> )							3.60	
SULFUR DIOXIDE (SO2)								
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD								
OTHER								
HAZARDO	OUS AIR PC	DLLUTANT EMISSIO	NS INFOR!	VIATION FO	OR THIS SO	URCE	7	The sales
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	(ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTR	ROL\$ / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	√b/hr	tons/yr	lb/hr	tons/yr	ib/hr	tons/yr
					-			
					1			
TOXIO	AIR POLL	UTANT EMISSIONS	NFORMAT	TON FOR T	HIS SOUR	E		
			EXPE	CTED ACTUA	L EMISSIONS /	AFTER CONTI	ROLS / LIMITA	TIONS
TOXIC AIR POLLUTANT	CAS NO.	SOURCE OF EMISSION FACTOR		n/hr	lb/d	lou	lle (	h.r.
TONO ANT GEECITAL	Ono Ito.	TAUTOR	<u> </u>	2/11	1070	lay	lb/	y ·
							_	
	1							
	1							
	1							
Attachments: (1) emissions calculations and supportin	a documentation	· /2) indicate all requested state	and federal as	formachia normit	limite (a o house	of apprelian as	leeian rataal a	d daperiho have
these are monitored and with what frequency; and (3)					minto (G.Y. HOMES	ы орогаціян, еп	iooron rauss) and	A GOODING HOW

#### SPECIFIC EMISSION SOURCE INFORMATION (REQUIRED FOR ALL SOURCES)

REVISED 09/22/16	NCDEQ/Divis	sion of Air Quality - Applic	ation for Air	Permit to Con	struct/Operate	<b>;</b>	i	В
EMISSION SOURCE DESCRIPTION:				EMISSION S	OURCE ID NO	: ES2327C		
Conveyor No. 6 Metal Diverter Chute					EVICE ID NO(			
OPERATING SCENARIO 1	OF	1		1	OINT (STACK)	,		
DESCRIBE IN DETAILTHE EMISSION SOURCE	PROCESS (	ATTACH FLOW DIAGRAM	D:	,		15 110 (5). 11.	,	
A metal detector will identify metal in the aggrega (ES2327C).				metal and agg	regate outside	via Conveyor I	No, 6 Metal Div	rerter Chute
TYPE OF EMISSION S	OURCE (CH	ECK AND COMPLETE API	PROPRIATE	FORM B1-B9 (	N THE FOLLO	WING PAGE	S):	_
Coal,wood,oil, gas, other burner (Form B1)		Woodworking (Form	B4)		Manuf	. of chemicals/	coatings/inks (	Form B7)
int.combustion engine/generator (Form B2)		Coating/finishing/prin	ting (Form B5	)	Incine	ation (Form B	8)	
Liquid storage tanks (Form B3)		Storage silos/bins (Fo	orm 86)		√ Other	(Form 89)		
START CONSTRUCTION DATE: TBD			DATE MANU	FACTURED: 1	BD			
MANUFACTURER / MODEL NO.:			EXPECTED	OP. SCHEDUL	.E: <u>24</u> HR/0	DAY	AY/WK <u>52</u>	WK/YR
IS THIS SOURCE SUBJECT TO? 💟 NSPS	(SUBPARTS	?):000		☐ NESH.	AP (SUBPART	S?):		
PERCENTAGE ANNUAL THROUGHPUT (%): [		MAR-MAY 25	_JUN-AU		SEP-NOV			
CRITERI	A AIR POL	LUTANT EMISSIONS	INFORM/	ATION FOR	THIS SOU	RCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTA	ROLS / LIMITS)
AIR POLLUTANT EMITTED		FACTOR	lb/hr	tons/yr	lb/fir	tons/yr	lb/hr	tons/yr
PARTICULATE MATTER (PM)		AP-4 <u>2</u>			3.00E-03	1.31E-02	3.00E-03	1.31E-02
PARTICULATE MATTER<10 MICRONS (PM10)		AP-42			1.10E-03	4.82E-03	1.10E-03	4.82E-03
PARTICULATE MATTER<2.5 MICRONS (PM <sub>2.5</sub> )								
SULFUR DIOXIDE (SO2)				1				
NITROGEN OXIDES (NOx)								
CARBON MONOXIDE (CO)								
VOLATILE ORGANIC COMPOUNDS (VOC)								
LEAD								
OTHER								
HAZARDO	US AIR PC	LLUTANT EMISSIO	VS INFOR	WATION FO	R THIS SO	URCE		
		SOURCE OF	EXPECTE	D ACTUAL		POTENTIAL	EMISSIONS	
		EMISSION	(AFTER CONT	ROLS / LIMITS)	(BEFORE CONT	ROLS / LIMITS)	(AFTER CONTI	(OLS / LIMITS)
HAZARDOUS AIR POLLUTANT	CAS NO.	FACTOR	lb/hr	tons/yr	∣b/hr	tons/yr	lb/hr	tons/yr
	1							
	<u> </u>							
TOXIC	AIR POLL	UTANT EMISSIONS I	NFORMA1	TION FOR T	HIS SOURCE	Œ	Land Hill	and the same
		SOURCE OF EMISSION	EXPE	CTED ACTUAL	. EMISSIONS	AFTER CONTI	ROLS / LIMITA	TIONS
TOXIC AIR POLLUTANT	CAS NO.	FACTOR	l±	/hr	ib/c	lay	lb/	/уг
						_		
Attachments: (1) emissions calculations and supporting these are monitored and with what frequency; and (3) d	documentation; escribe any mor	(2) indicate all requested state itering devices, gauges, or tes	and federal en t ports for this s	forceable permit ource.	limits (e.g. hours	of operation, en	nission rates) and	I describe how

REVISED 09/22/16 NCDEQ/Division of Air Quality	- Application	for Air Permit to Construct/Operate	· [	B9
EMISSION SOURCE DESCRIPTION: M Screener No. 2		EMISSION SOURCE ID NO: ES35	537B	
III EGGSISI NU. E		CONTROL DEVICE ID NO(S): CD	B2	
OPERATING SCENARIO:1 OF1	_	EMISSION POINT (STACK) ID NO	D(S): N/A	
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM):		· · · · · · · · · · · · · · · · · · ·		=
ES 3537 - Loading crushed aggregate from Live M Feed Bin (ES340B) to the following; Waste Conveyor No. 21 (ES3537F), Grade Collecting Con device for M Screeners (No. 1 through 3) and (No. 4 through 6) processe	veyor No. 19 (E	S3537E) and L Crusher Feed Bin Co	es loadout from the N nveyor No. 14 (ES35	f Screeners onto 37D), Control
MATERIALS ENTERING PROCESS - CONTINUOUS PROC	ESS	MAX. DESIGN	REQUESTED	CAPACITY
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(	JNIT/HR)
Crushed Aggregate (greenstone)	Tons	753		753
MATERIALS ENTERING PROCESS - BATCH OPERAT	ION	MAX. DESIGN	REQUESTED	CAPACITY
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UN	NIT/BATCH)
			3.3	
		Asset Inc.		
MAXIMUM DESIGN (BATCHES / HOUR):				
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/)	/R):		
FUEL USED:	_	IMUM FIRING RATE (MILLION BTU	/HR)·	
MAX, CAPACITY HOURLY FUEL USE:		D CAPACITY ANNUAL FUEL USE:	arity.	-
COMMENTS;	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.4.1011.1.111101111.001.		

REVISED 09/22/16 NCDEQ/Division of Air Quality	y - Application (	for Air Permit to Construct/Operate	B9	
EMISSION SOURCE DESCRIPTION: M Screener No 3		EMISSION SOURCE ID NO: ES35	537C	. 13
M Screener No 3		CONTROL DEVICE ID NO(S): CD	B2	
OPERATING SCENARIO:1 OF1_		EMISSION POINT (STACK) ID NO	D(S): N/A	
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM): ES 3637 - Loading crushed aggregate from Live M Feed Bin (ES340B) the following; Waste Conveyor No. 21 (ES3537F), Grade Collecting Coldevice for M Screeners (No. 1 through 3) and (No. 4 through 6) process	to all 6 M Screen nveyor No. 19 (E	S3537E) and L Crusher Feed Bin Co	es loadout from the M Screeners nveyor No. 14 (ES3537D). Contro	ento al
MATERIALS ENTERING PROCESS - CONTINUOUS PRO	\^E&&	MAX. DESIGN	REQUESTED CAPACITY	
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)	
Crushed Aggregate (greenstone)	Tons	753	LIMITATION(ONTI/FIX)	753
MATERIALS ENTERING PROCESS - BATCH OPERAT		MAX. DESIGN	REQUESTED CAPACITY	- 1
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)	
MAXIMUM DESIGN (BATCHES / HOUR):				
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/	/R):		
FUEL USED:		IMUM FIRING RATE (MILLION BTU	/HR\·	╡
MAX. CAPACITY HOURLY FUEL USE:		D CAPACITY ANNUAL FUEL USE:		$\dashv$
COMMENTS:				

	or Air Permit to Construct/Operat	e B9
	EMISSION SOURCE ID NO: ES3	537G
	CONTROL DEVICE ID NO(S): CO	084
1	EMISSION POINT (STACK) ID N	O(S): N/A
6340B) to all 6 M Screene g Conveyor 19 (ES3537K)	), L Crusher Feed Bin Conveyor No.	les loadout from the M Screeners onto .14 (ES3537J), and Feed Conveyor
IS PROCESS	MAY DEGICAL	DECHIECTED CARACITY
		REQUESTED CAPACITY
		LIMITATION(UNIT/HR) 753
1313	100	755
DPERATION UNITS	MAX, DESIGN CAPACITY (UNIT/BATCH)	REQUESTED CAPACITY LIMITATION (UNIT/BATCH)
(BATCHES/YI	<del></del>	
		16.173
	GRAM):  6340B) to all 6 M Screener g Conveyor 19 (ES3537K)  6. 4 through 6) processes i  UNITS  Tons  DPERATION  UNITS  (BATCHES/YI  TOTAL MAXIP	CONTROL DEVICE ID NO(S): CD  EMISSION POINT (STACK) ID No  GRAM):  6340B) to all 6 M Screeners. This emission source also include g Conveyor 19 (ES3537K), L Crusher Feed Bin Conveyor No. 1. 4 through 6) processes is CDB2 and CDB4, respectively.  JS PROCESS  MAX. DESIGN  CAPACITY (UNIT/HR)  Tons  753  DPERATION  MAX. DESIGN  MAX. DESIGN

REVISED 09/22/16 NCDEQ/Division of Air Qual	lty - Application i	for Air Permit to Construct/Operate	B9				
EMISSION SOURCE DESCRIPTION:	EMISSION SOURCE ID NO: E\$3537H						
M Screener No. 5	CONTROL DEVICE ID NO(S): CDB4						
OPERATING SCENARIO:1 OF1		EMISSION POINT (STACK) ID NO(S): N/A					
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM ES 3537 - Loading crushed aggregate from Live M Feed Bin (ES3408 the following; Waste Conveyor #21 (ES3537L), Grade Collecting Convol. 6. Control device for M Screeners (No. 1 through 3) and (No. 4 through 3) and	i ) to all 6 M Screen veyor 19 (ES3537)	K), L Crusher Feed Bin Conveyor No.	es loadout from the M Screeners onto 14 (ES3537J), and Feed Conveyor				
MATERIALS ENTERING PROCESS - CONTINUOUS PR	OCESS	MAX. DESIGN	REQUESTED CAPACITY				
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)				
Crushed Aggregate (greenstone)	Tons	753	753				
MATERIALS ENTERING PROCESS - BATCH OPERA		MAX. DESIGN	REQUESTED CAPACITY				
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)				
MAXIMUM DESIGN (BATCHES / HOUR):							
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/	/R):					
FUEL USED:		IMUM FIRING RATE (MILLION BTU	(IHD):				
MAX. CAPACITY HOURLY FUEL USE:		D CAPACITY ANNUAL FUEL USE:	what,				
COMMENTS:							

REVISED 09/22/16 NCDEQ/Division of Air Quality	· - Application f	or Air Permit to Construct/Operate	в В9				
EMISSION SOURCE DESCRIPTION: Undersize Conveyor No. 3 (Discreen No. 1 to dryer feed conveyor No. 7)		EMISSION SOURCE ID NO: ES8					
		CONTROL DEVICE ID NO(S): CD	DB2				
OPERATING SCENARIO:1 OF1_	-	EMISSION POINT (STACK) ID NO(S): N/A					
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM): ES 8913 - Crushed greenstone aggregate from Product Conveyor No.3 ( (ES8913A) loadout Into D Screen No.1 Feeder (ES8913B) and through the Feed Conveyor No. 4 (D Screen No.1 to C Crusher Bin) (ES8913E) or U	C crusher to D s o D Screen No.1	(ES8913C), From D Screen No.1, t	he aggregate either goes onto C Bin				
MATERIALS ENTERING PROCESS - CONTINUOUS PRO	CESS	MAX. DESIGN	REQUESTED CAPACITY				
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)				
Crushed Aggregate (greenstone)	Tons	535	535				
MATERIALS ENTERING PROCESS - BATCH OPERAT	ION	MAX. DESIGN	REQUESTED CAPACITY				
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)				
MAXIMUM DESIGN (BATCHES / HOUR):							
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/Y	'R):					
FUEL USED:	TOTAL MAX	MUM FIRING RATE (MILLION BTU	J/HR):				
MAX. CAPACITY HOURLY FUEL USE:	REQUESTE	CAPACITY ANNUAL FUEL USE:					
COMMENTS:							

#### **EMISSION SOURCE (OTHER)**

lity - Application f	or Air Permit to Construct/Operate	B9					
REVISED 09/22/16 NCDEQ/Division of Air Quality - Application EMISSION SOURCE DESCRIPTION: C Bin Feed Conveyor No. 4 (D screen No. 1 to C Crusher Bin)							
	CONTROL DEVICE ID NO(S): CD	PB2					
	EMISSION POINT (STACK) ID NO(S): N/A						
M): 3 (C crusher to D s	creen bin №o. 1) (ESC3) loadout to D	Feed Bin 1 (ES8913A). D Feed Bin 1					
th to D Screen No.1	(ES8913C), From D Screen No.1, ti	he aggregate either goes onto C Bin					
ROCESS	MAX. DESIGN	REQUESTED CAPACITY					
UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)					
Tons	535	535					
	MAX, DESIGN	REQUESTED CAPACITY					
UNIES	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)					
/PATCHESA	771						
		//HR):					
REQUESTE	O CAPACITY ANNUAL FUEL USE:						
	ATION  UNITS  (BATCHES/Y  TOTAL MAXI	ATION  3 (C crusher to D screen bin No. 1) (ESC3) loadout to D to to D Screen No.1 (ES8913C). From D Screen No.1, to the Undersize conveyor No. 3 (D screen No. 1 to dryer feet MAX. DESIGN  CAPACITY (UNIT/HR)  Tons  535					

	<ul> <li>Application f</li> </ul>	or Air Permit to Construct/Operate	9	<b>B</b> 9				
EMISSION SOURCE DESCRIPTION: C Crusher No. 2B	EMISSION SOURCE ID NO: ES233							
O Oldsile: No. 25	CONTROL DEVICE ID NO(S): CD85							
OPERATING SCENARIO:1 OF1		EMISSION POINT (STACK) ID NO(S): N/A						
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM):	<u> </u>							
Crushed aggregate is conveyed from G Crusher Feed Conveyor No.8B (II (ES233) for secondary crushing of the aggregate. Aggregate from C Crus Screens Feed Bin No.2) (ES16-C).	D No. ES24271 ther No. 2B is fe	- G Crusher Feed Bin No.1 to G Cru d onto the Dryer and G Crusher Prod	sher No.1) into C Cr duct Conveyor No. 9	usher No. 2B (G Crusher to D				
MATERIALS ENTERING PROCESS - CONTINUOUS PROC	ESS	MAX, DESIGN	REQUESTED	CAPACITY				
TYPE	UNITS	CAPACITY (UNIT/HR)	LIMITATION(					
Crushed Aggregate (greenstone)	Tons	300	Elimitation	300				
				*				
	1							
	+							
MATERIALS ENTERING PROCESS - BATCH OPERATION	ON	MAY DECICN	BEOLIFOTER	CADACITY				
TYPE	UNITS	MAX. DESIGN CAPACITY (UNIT/BATCH)	REQUESTED	1.0				
TIFE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (U	VIT/BATCH)				
	+							
	-							
	-							
MAXIMUM DESIGN (BATCHES / HOUR):								
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/Y	'R):						
FUEL USED:	TOTAL MAX	MUM FIRING RATE (MILLION BTU	I/HR):					
MAX. CAPACITY HOURLY FUEL USE:	REQUESTE	CAPACITY ANNUAL FUEL USE:						
COMMENTS:								
				l				

#### **EMISSION SOURCE (OTHER)**

В9

	Quality - Application for	or Air Permit to Construct/Operat	e	B9				
EMISSION SOURCE DESCRIPTION:		EMISSION SOURCE ID NO: ES2	426.3					
C Crusher No.1 Bypass Chute		CONTROL DEVICE ID NO(S): CDB1						
OPERATING SCENARIO:1OF1_		EMISSION POINT (STACK) ID NO	D(S): N/A					
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGR The C Crusher No. 1 Bypass Chute (ES2426.3) will divert aggreg to D screen bin No. 1) (ESC3) for screening prior to crushing.				C crusher				
MATERIALS ENTERING PROCESS - CONTINUOUS	BOOCESS	MAX. DESIGN	REQUESTED CAPA	CITY				
TYPE		*						
Undersized Aggregate	UNITS	CAPACITY (UNIT/HR) 1092	LIMITATION(UNIT/H 535	ik)				
MATERIALS ENTERING PROCESS - BATCH OP	ERATION	MAX. DESIGN	REQUESTED CAPA	CITY				
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BA	TCH)				
MAXIMUM DESIGN (BATCHES / HOUR):								
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/Y	R):						
FUEL USED:	T T	MUM FIRING RATE (MILLION BTU	(HD):					
MAX. CAPACITY HOURLY FUEL USE:		CAPACITY ANNUAL FUEL USE:	/IIX).					
COMMENTS:								

	- Application f	or Air Permit to Construct/Operate	в В9		
EMISSION SOURCE DESCRIPTION: D Screen Bin No. 1 Loadout Chute  DPERATING SCENARIO: DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIAGRAM): D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8913G) would discharge to trucks if D Screen Bin No. 1 Loadout Chute (ES8		EMISSION SOURCE ID NO: ES8	913G		
B Golden Birrio. Coddodi Giddo	CONTROL DEVICE ID NO(S): N/A				
		#1 (ES8913A) needs to be emptied	for any reason.		
MATERIAL & ENTERING DROCERS - CONTINUINE DROC	^Eee	MAY DESIGN	REQUESTED CAPACITY		
		=	LIMITATION(UNIT/HR)		
		1			
	1	1	***		
MATERIALS ENTERING PROCESS - BATCH OPERAT	ION	MAX. DESIGN	REQUESTED CAPACITY		
TYPE	UNITS	CAPACITY (UNIT/BATCH)	LIMITATION (UNIT/BATCH)		
MAXIMUM DESIGN (BATCHES / HOUR):					
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/)	/R):			
FUEL USED:	_		I/HR\:		
MAX. CAPACITY HOURLY FUEL USE:					
COMMENTS:					

EMISSION SOURCE DESCRIPTION:	Application	or Air Permit to Construct/Operat	
Conveyor No. 6 Metal Diverter Chute		EMISSION SOURCE ID NO: ES2	2327C
		CONTROL DEVICE ID NO(S): N/	Α
OPERATING SCENARIO:1 OF		EMISSION POINT (STACK) ID N	O(S): N/A
DESCRIBE IN DETAIL THE PROCESS (ATTACH FLOW DIA A metal detector will identify metal in the aggregate and will trigg Chute (ES2327C).		ert separated metal and aggregate ou	utside via Conveyor No. 6 Metal Diverte
MATERIALS ENTERING PROCESS - CONTINUO	ie ppocees	THAY DEGICAL	DECUESTED OVER OFFI
TYPE		MAX. DESIGN	REQUESTED CAPACITY
Aggregate with metal	UNITS	CAPACITY (UNIT/HR)	LIMITATION(UNIT/HR)
MATERIALS ENTERING PROCESS - BATCH O	DPERATION UNITS	MAX. DESIGN CAPACITY (UNIT/BATCH)	REQUESTED CAPACITY LIMITATION (UNIT/BATCH)
MAXIMUM DESIGN (BATCHES / HOUR):			
REQUESTED LIMITATION (BATCHES / HOUR):	(BATCHES/Y	′R):	
FUEL USED:	TOTAL MAX	MUM FIRING RATE (MILLION BTL	J/HR):
MAX. CAPACITY HOURLY FUEL USE:	REQUESTE	CAPACITY ANNUAL FUEL USE:	
COMMENTS:			

REVISED 09/22/16	NCDEQ/	Division of Air Quality	- Application for	Air Pennit to C	onstruct/Operat				C1
CONTROL DEVICE ID NO: CDB1		CONTROLS EMISS ES2428.1, ES2426.						ES607.1, ES6	07.2, ES2327A,
EMISSION POINT (STACK) ID NO(S):	EP S1	POSITION IN SERII			N		OF	UNITS	N/A
OPERATING SC	ENARIO:								
1 OF_	1		P.E. SEAL REQU	JIREO (PER 20	.0112)? [✓	YES		□ NO	
DESCRIBE CONTROL SYSTEM:			-						
Induced draft fan pulls PM emissions from al baghouse.	l emission so	urces specified above to	o baghouse (CDB1	). Ali emissioni	s sources are tota	ally enclos	sed in ductv	vork that dire	air flow to the
POLLUTANTS COLLECTED:			TSP	PM10				_	
BEFORE CONTROL EMISSION RATE (LB/I	HR):		16.09	5.81		_		_	
CAPTURE EFFICIENCY:			%		.%	_%		<del>_</del> %	
CONTROL DEVICE EFFICIENCY:			%		<b>%</b>	_%		<u>"</u> %	
CORRESPONDING OVERALL EFFICIENCY	r:		99.97 %	99,92	%	%		%	
EFFICIENCY DETERMINATION CODE:						-		_	
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		4.65E-03	4.65E-03					
	MAX:	GAUGE?	L YES	□ NO					
BULK PARTICLE DENSITY (LB/FT³):	-		INLET TEMPERA		MIN 100	MAX 2			
	LB/HR	☐ GR/FT³	OUTLET TEMPE			MAX 2	100		
INLET AIR FLOW RATE (ACFM): 26000			FILTER OPERAT	TING TEMP (°F					
		S PER COMPARTMEN			LENGTH OF BA				
		FACE AREA PER CART			DIAMETER OF E	BAG (IN.)	: 5.75		
TOTAL FILTER SURFACE AREA (FT²): 617		AIR TO CLOTH RAT				٦		1	
DRAFT TYPE:	TIVE L	FORCED/POSITIVE		FILTER MA	TERIAL: L	WOVE			
DESCRIBE CLEANING PROCEDURES:	_	<b>7</b>				7		STRIBUTIO	
✓ AIR PULSE	L	SONIC			SIZE		EIGHT %	Cr	MULATIVE
REVERSE FLOW	<u>ب</u>	SIMPLE BAG COLL		1.13	(MICRONS)	0	F TOTAL	+	%
☐ MECHANICAL/SHAKER		J RING BAG COLLAR	'SE		0-1	+			
DESCRIBE INCOMING AIR STREAM:	_	_			1-10	-			
					10-25	-			
Dust (particulate emissions) exhaust from fe	ed conveyors	, bins, crushers inside o	f the building.		25-50	+		-	
					50-100	+		-	
					>100				
								TOTAL = 10	,
	=								
ON A SEPARATE PAGE, ATTACH A DIAGR COMMENTS:	KAM SHOWI	NG THE RELATIONSHIE	P OF THE CONTR	OL DEVICE TO	TITS EMISSION	SOURCE	E(S):		

REVISED 09/22/16 NCDEQ/Di	vision of Air Quality -	Application for Ai		•			C1
TOTAL STATE OF THE	History of Part Gunning	- reportation for All		onactico o parate	-		
							32B, ES340-A, ES1721A, ES1721B,
CONTROL DEVICE ID NO: CDB2	ES8913E, ES8913F		A, E836378,	E83537G, E8358	37D, E83537E, E835	37F, E\$891.	3A, ES8913B, ES8913C, ES8913D,
EMISSION POINT (STACK) ID NO(S): EP S2	POSITION IN SERIE	S OF CONTROLS	N/A	NC	). OF	UNITS	N/A
OPERATING SCENARIO:	12 2 2						
1 OF1		P.E. SEAL REQUIE	RED (PER 2q	.0112)?	YES	□ NO	
DESCRIBE CONTROL SYSTEM:							
Induced draft fan pulls PM emissions from all emission sour	ces specified above to	baghouse (CDB2).	All emissions	sources are total	lly enclosed in ductwo	ork that direct	ts air flow to the baghouse.
POLLUTANTS COLLECTED:		TSP	PM10			-	
BEFORE CONTROL EMISSION RATE (LB/HR):		39.53	13,67			-	
CAPTURE EFFICIENCY:		%		%	_%	_%	
CONTROL DEVICE EFFICIENCY:		<u> </u>		%	%	_%	
CORRESPONDING OVERALL EFFICIENCY:		99,97 %	99.92	%	_%	_%	
EFFICIENCY DETERMINATION CODE:						-	
TOTAL AFTER CONTROL EMISSION RATE (LB/HR):		1.14E-02	1.11E-02				
PRESSURE DROP (IN H <sub>2</sub> 0): MIN: MAX:	GAUGE?		□ NO				
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):	GR/FT <sup>3</sup>	INLET TEMPERAT		MIN 100	MAX 200		
POLLUTANT LOADING RATE: LB/HR	_, GROFT	OUTLET TEMPER			MAX 200		
INLET AIR FLOW RATE (ACFM): 47,000  NO. OF COMPARTMENTS: 1  NO. OF BAGS	PER COMPARTMENT	FILTER OPERATR		): LENGTH OF BAC	2 (IN 3: 100 F		
	ACE AREA PER CART			DIAMETER OF B	_		
TOTAL FILTER SURFACE AREA (FT²) 11296	AIR TO CLOTH RAT			Drune (City D	mo (ne.). o		
DRAFT TYPE: INDUCED/NEGATIVE	FORCED/POSITIVE		FILTER MA	TERIAL:	WOVEN	FELTED	
DESCRIBE CLEANING PROCEDURES:					PARTICL	SIZE DIST	REBUTION
☑ AIR PULSE □	SÓNIC			SIZE	WEIGHT %		CUMULATIVE
☐ REVERSE FLOW ☐	SIMPLE BAG COLL	APSE		(MICRONS)	OF TOTAL		%%
☐ MECHANICAL/SHAKER ☐	RING BAG COLLAP	PSE		0-1			
OTHER:				1-10			
DESCRIBE INCOMING AIR STREAM:				10-25			
Dust (perticulate emissions) exhaust from feed conveyors.	bins, crushers, and scr	reeners inside of the	building.	25-50			
				50-100			
				>100			
						то	TAL = 100
			7				
ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWIN	3 THE RELATIONSHIP	P OF THE CONTRO	L DEVICE TO	O ITS EMISSION	SOURCE(S):		
COMMENTS:							

REVISEO 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate							C1	
CONTROL DEVICE ID NO: CDB3		CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S): ESC23A.2, ES1415						
EMISSION POINT (STACK) ID NO(S):	EP \$3	POSITION IN SERIE	S OF CONTROLS N/A		No.	OF	UNITS	N/A
OPERATING SC	ENARIO:							
10F_	_1_		P.E. SEAL REQUIRED (PER	R 2q .0112}?	✓ YES	1	₩ NO	
DESCRIBE CONTROL SYSTEM: Induced draft fan pulls PM emissions from al baghouse.	l emission sourc	ces specified above to	baghouse (CD83). All emissi	ions sources are t	otally enclo	osed in due	ctwork that directs	s air flow to the
POLLUTANTS COLLECTED:			PM(includes PM10 and TSP	)	·•··			
BEFORE CONTROL EMISSION RATE (LB/I	HR):		13,697.48					
CAPTURE EFFICIENCY:			%	%	<u></u> %		%	
CONTROL DEVICE EFFICIENCY:			%	<u></u> %	%		%	
CORRESPONDING OVERALL EFFICIENCY	<b>Y</b> :		99.92 %	%	%		%	
EFFICIENCY DETERMINATION CODE:		_ 26		<del>-</del>				
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		8.48					
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE? [	YES NO					
BULK PARTICLE DENSITY (L8/FT3):			INLET TEMPERATURE (°F)	MIN 250	MAX	K 400		
POLLUTANT LOADING RATE:	LB/HR	GR/FT³	OUTLET TEMPERATURE (	F) MIN 250	MAX	C 400		
INLET AIR FLOW RATE (ACFM): 50,000			FILTER OPERATING TEMP	(°F);				
NO. OF COMPARTMENTS: 1	NO. OF BAGS I	PER COMPARTMENT	T: 952	LENGTH OF	BAG (IN.);	100.5		
NO. OF CARTRIDGES:	FILTER SURFA	CE AREA PER CART	RIDGE (FT <sup>2</sup> ):	DIAMETER O	F BAG (IN	1.): 5.75		
TOTAL FILTER SURFACE AREA (FT2): 120	02	AIR TO CLOTH RAT	10: 4.2					
DRAFT TYPE: INDUCED/NEGA	TIVE 🗌	FORCED/POSITIVE	FILTER	MATERIAL:	☐ wo	VÉN	FELTED	
DESCRIBE CLEANING PROCEDURES:				Landon.	PART	ICLE SIZE	DISTRIBUTION	
✓ AIR PULSE		SONIC		SłZE	,	WEIGHT 9	6 CUN	MULATIVE
☐ REVERSE FLOW		SIMPLE BAG COLLA	₩SE	(MICRONS	5)	OF TOTAL	_	%
☐ MECHANICAL/SHAKER		RING BAG COLLAPS	SE	0-1				
OTHER:				1-10				
DESCRIBE INCOMING AIR STREAM:				10-25				
Dust (Particular matter) and combustion emis	ssions exhaust t	from the dryer and Cor	nveyor No. 22	25-60				
		•	•	50-100				
				>100				
							TOTAL = 100	
ON A SEPARATE PAGE, ATTACH A DIAGE	RAM SHOWING	THE RELATIONSHIP	OF THE CONTROL DEVICE	E TO ITS EMISSI	ON SOLID	CE(S)		
COMMENTS:	., 0.10711110	THE REDUIENCE	OF THE CONTROL OF VIO	L TO ITS ENROSI	DIN SOUR	OE(O).		

NCDEQ/D	ivision of Air Quality	- Application	for Air Pen	mit to C	onstruct/O	perate				C1
	CONTROLS EMISS	IONS FROM	WHICH EMI	SSION	SOURCE II	) NO(S): E	916-B, E\$33/	A, ES33B, ES3	40-B, ES1	B22A,
	POSITION IN SERIE	ES OF CONT	ROLS N/A			NO.	OF	UNITS	N/A	
_							_			
1		P.E. SEAL R	REQUIRED (	PER 20	.0112)?	✓ YE	is	NO		
all emission sou	rces specified above to	o baghouse (C	CDB4). All er	mission	3 90Uruės ar	e totally er	ndosed in duc	stwork that dire	cts air flov	v to the
		TSP	<u>PM1</u>	0		···-		_		1
/HR):		26.16		9,21				_		
			*		%	%		%		
			% <u> </u>		%	%		%		
Y;		99.97	%	99.92	.*	%		%		
		<del></del>	_		· —					
E (L8/HR):		7.56E-03					<del> </del>	<del></del>		
MAX;	GAUGE?									
7										
LB/HR	☐ GR/F1		-			M	AX 200			
		-	RATING TE	_						
1			(		DIAMETER	OF BAG (	IN.): 5.75			
•	1									
ATIVE _	FORGED/POSITIVE	<u> </u>	FILI	EK MA	TERIAL:				MON	
	20110						-			-
L						1				TIVE
					(MICRO	NS)	OF TOTAL		%	
L	RING BAG COLLAR	SE			0-1			_		
						_				
						-				
end conveyors,	bins, crushers, and scr	eenera Inside	of the buildi	ing.						
					>100	)				
					1.60			TOTAL =	100	
RAM SHOWIN	G THE RELATIONSHII	OF THE CO	NTROL DEV	VICE TO	ITS EMISS	SION SOU	RCE(S):			
	EP S4 CENARIO:  1	CONTROLS EMISS ES1822C EP S4 POSITION IN SERII CENARIO:  1	CONTROLS EMISSIONS FROM ES1822B, ES1822C, ES1822D, E EP S4 POSITION IN SERIES OF CONTI CENARIO:  1 P.E. SEAL R  III emission sources specified above to baghouse (C  TSP  TSP  TSP  TSP  (HR):  26.16  Y: 99.97  E (LB/HR): 7.56E-03  MAX: GAUGE? YES INLET TEM ILB/HR GR/FT² OUTLET TE FILTER OPE FILTER OPE FILTER SURFACE AREA PER CARTRIDGE (FT²) 02 AIR TO CLOTH RATIO: 4.2  ATIVE FORCED/POSITIVE  SONIC SIMPLE BAG COLLAPSE RING BAG COLLAPSE RING BAG COLLAPSE  SEED COMPARTS, and screeners inside	CONTROLS EMISSIONS FROM WHICH EMISSIBEZB, ES1822B, ES1822C, ES1822C, ES2327B, ES  EP S4 POSITION IN SERIES OF CONTROLS NIA  CENARIO:  1 P.E. SEAL REQUIRED (  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III emission sources specified above to baghouse (CDB4). All en  III	CONTROLS EMISSIONS FROM WHICH EMISSION E81822B, ES1822C, ES1822D, ES2327B, ES2837G  EP S4 POSITION IN SERIES OF CONTROLS N/A  CENARIO:  1 P.E. SEAL REQUIRED (PER 20  All emission sources specified above to baghouse (CDB4). All emissions all emissions sources specified above to baghouse (CDB4). All emissions all emissions sources specified above to baghouse (CDB4). All emissions all emissions sources specified above to baghouse (CDB4). All emissions all emissions sources specified above to baghouse (CDB4). All emissions all emiss	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE IF ES1822B, ES1822C, ES1822D, ES2327B, ES3537G, ES3537H.  EP S4 POSITION IN SERIES OF CONTROLS N/A  CENARIO:  1 P.E. SEAL REQUIRED (PER 2q, 0112)?  Ill emission sources specified above to baghouse (CDB4). All emissions sources at the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the building.  CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE IF ES1827B, ES3537H.  EP S4 POSITION IN SERIES OF CONTROLS N/A  TSP PM10  TSP TSP PM10  TSP PM10  TSP TSP PM10  TSP TSP TSP TSP TSP TSP TSP TSP TSP TSP	E61622B, E51622C, E51822D, E52327B, E53637G, E53537H, E53537L, EP S4 POSITION IN SERIES OF CONTROLS NIA NO. CENARIO:  1 P.E. SEAL REQUIRED (PER 2q. 0112)?	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(3): ES18-B, ES33-ES1822B, ES1822C, ES1822D, ES2327B, ES3637G, ES3837H, ES3637I, ESC3637J, ESC3	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(9): E318-8, E333A, E333B, E336 E51822B, E31822C, E31822C, E31822D, E3523TB, E3533TH,	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S): ES18-16. ES333, ES338, ES340-B, ES18-26. ES18-226. ES18-226. ES18-226. ES18-227. ES3537, ES3

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Pennit to Construct/Operate C									C1	
CONTROL DEVICE ID NO: CDB5		CONTROLS EMISS ES2729.1, ES233, E					6-C, ES32	.2, ES38, ES39	ES2327	1
EMISSION POINT (STACK) ID NO(S):	EP \$5	POSITION IN SERI	ES OF CONTROLS	N/A		NO.	OF	UNITS	N/A	
OPERATING SCI	ENARIO:									
1OF	_1		P.E. SEAL REQU	IRED (PER 2q	.0112)?	√ YES	777	□ NO		
DESCRIBE CONTROL SYSTEM:										
Induced draft fan pulls PM emissions from all beghouse.	emission so	urces specified above a	o baghousa (GDB5	). All emissions	s sources are t	otally enclo	osed in duc	owork that direc	tis air flow	v to the
POLLUTANTS COLLECTED:			TSP	PM10						
BEFORE CONTROL EMISSION RATE (LB/H	IR):		9,68	3.83				_		
CAPTURE EFFICIENCY:			%		%	%		<del></del> %		
CONTROL DEVICE EFFICIENCY:			%		%	%		%		
CORRESPONDING OVERALL EFFICIENCY	:		99.97 %	99.92	%	%		%		
EFFICIENCY DETERMINATION CODE:			<del> </del>					<del></del>		
TOTAL AFTER CONTROL EMISSION RATE			2.80E-03	3.06E-03						
	MAX:	GAUGE?	YES	∐ No						
BULK PARTICLE DENSITY (LB/FT3):			INLET TEMPERA		MIN 100	MAX				
	LB/HR	☐ GR/FT³	OUTLET TEMPE			MAX	200			
INLET AIR FLOW RATE (ACFM): 21,000			FILTER OPERAT	ING TEMP (°F	):					
		S PER COMPARTMEN			LENGTH OF E	BAG (IN.):	100.5			
	_	FACE AREA PER CART			DIAMETER O	F BAG (IN.	): 5.75			
TOTAL FILTER SURFACE AREA (FT²): 4942		AIR TO CLOTH RA				_				
DRAFT TYPE: ☑ INDUCED/NEGAT	IVE L	FORCED/POSITIVE	_	FILTER MA	TERIAL:	☐ wov		FELTED		-
DESCRIBE CLEANING PROCEDURES:	_					PARTI	CLE SIZE	DISTRIBUTION	i.	
AIR PULSE	F	SONIC		1	SIZE	٧	EIGHT %	CF	MULATI	/E
REVERSE FLOW		SIMPLE BAG COLL	APSE	1	(MICRONS	3) (	F TOTAL		%	
MECHANICAL/SHAKER	L	I RING BAG COLLAR	SE		0-1					
☐ OTHER:					1-10					
DESCRIBE INCOMING AIR STREAM:					10-25	-				
Dust (particulate emissions) exhaust from fee	d conveyors	, bins, crushers inside o	f the building.		25-50	-				
					50-100	-				
					>100					
								TOTAL = 10	)	
ON A SEPARATE PAGE, ATTACH A DIAGR.	AM SHOWIN	IG THE RELATIONSHIP	OF THE CONTRO	DL DEVICE TO	TS EMISSIC	N SOURC	E(S):			
COMMENTS:										

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate C1										
CONTROL DEVICE ID NO: CD86			CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(8): ES49A, ES49B, ES50, ES57, ES58, ES ES5155A, ES5155B, ES5155C							
EMISSION POINT (STACK) ID NO(S):	EP S6	POSITION IN SERIE	S OF CONTROL	S N/A		NO.	OF	UNITS	N/A	
OPERATING SO	ENARIO:									
1OF_	1		P.E. SEAL REG	UIRED (PER 29	.0112)?	√ YES		□ NO		
DÉSCRIBÉ CONTROL SYSTEM:							_			
induced draft fan pulis PM emissions from al baghouse.	it emission soul	rces specified above to	o baghouse (CDB	6). All emissions	sources are t	otally ench	ased in duct	work that direct	ts air flow to the	
POLLUTANTS COLLECTED:			TSP	PM10				_		
BEFORE CONTROL EMISSION RATE (LB/	HR):		4.58	1.68		_	-			
CAPTURE EFFICIENCY:			%		%	%		<u></u> %		
CONTROL DEVICE EFFICIENCY:			%	<del></del>	%	<u>"</u>		%		
CORRESPONDING OVERALL EFFICIENCY	Y)		99.97 %	99,92	%	%		%		
EFFICIENCY DETERMINATION CODE:			<del></del>					_		
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		1.32E-03	1.34E-03						
PRESSURE DROP (IN H <sub>2</sub> 0); MIN:	MAX:	GAUGE?	YES	∐ NO						
BULK PARTICLE DENSITY (LB/FT*):	7	C court	INLET TEMPER		MIN 100	MAX				
	_ LB/HR	☐ GR/FT <sup>3</sup>	-	ERATURE (°F)		MAX	200			
INLET AIR FLOW RATE (ACFM): 21,000				TING TEMP (°F)						
		PER COMPARTMENT			LENGTH OF E					
		ACE AREA PER CART			DIAMETER O	F BAG (IN	.): 5.75			
TOTAL FILTER SURFACE AREA (FT²): 494		AIR TO CLOTH RAT						7		
DRAFT TYPE: V INDUCED/NEGA	TIVE	FORCED/POSITIVE		FILTER MA	TERIAL:	U wo\	100000	FELTED	IF-70,-11	
DESCRIBE CLEANING PROCEDURES:				f				ISTRIBUTION		
☑ AiR PULSE		SONIC			SIZE	- 1	WEIGHT %	CUM	IULATIVE	
☐ REVERSE FLOW		SIMPLE BAG COLL			(MICRONS	6) (	OF TOTAL		%	
☐ MECHANICAL/SHAKER		RING BAG COLLAP	SE		0-1	_		-		
DESCRIBE INCOMING AIR STREAM:					1-10	_				
OCCORDE INCOMING AIR STREAM.					10-25	_				
Oust (particulate emissions) exhaust from $\propto$	onveyors, bucke	et elevators, and grade	silos inside of th	e building.	25-50	-	_			
					50-100	-	-			
				+	>100	_		TOTAL 400		
				-				TOTAL = 100		
ON A SEPARATE PAGE, ATTACH A DIAGR	RAM SHOWING	THE RELATIONSHIP	P OF THE CONT	ROL DEVICE TO	TS EMISSIO	N SOURC	CE(S):			
COMMENTS:										

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CONTROL DEVICE ID NO: CDB7		CONTROLS EMISSI ES6466, ES6466SC		H EMISSION	SOURCE ID	NO(S): ES2	3C, ES63A, E	ES63B, ES68/	₹, ES68B.
EMISSION POINT (STACK) ID NO(S):	EP S7	POSITION IN SERIE	S OF CONTROLS	N/A		NO.	OF	UNITS	N/A
OPERATING SC	ENARIO:	1- 31							
1 0F_	_1		P.E. SEAL REQUI	RED (PER 20	.0112)?	✓ YES		□ NO	
DESCRIBE CONTROL SYSTEM:									
Induced draft fan pulls PM emissions from af baghouse.	l emission sourc	ces specified above to	a baghouse (CD87)	. All emission:	e sources an	s totally enck	osed in ductw	ork that direc	s air flow to the
POLLUTANTS COLLECTED:			TSP	PM10		<del></del>			
BEFORE CONTROL EMISSION RATE (LBA	HR):		1.47	0.539	· <u> </u>			<del>-</del>	
CAPTURE EFFICIENCY:			%		.%	%		_%	
CONTROL DEVICE EFFICIENCY:			%		.%	%		-%	
CORRESPONDING OVERALL EFFICIENCY	r:		99.97 %	99,92	.%	<u> </u>		<u></u> %	
EFFICIENCY DETERMINATION CODE:									
TOTAL AFTER CONTROL EMISSION RATE			4.25E-04	4,31E-04	* ***				
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	∐ NO					
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):	7 1	☐ GR/FT³	INLET TEMPERA		MIN 70	MAX			
	LB/HR	GREFT	OUTLET TEMPER			MAX	150		
INLET AIR FLOW RATE (ACFM): 11,000	NO OF BAGO!	SED COMPARTMENT	FILTER OPERATI	NG TEMP (T		E B 4 O 4 B 1 S -	400 5		
		PER COMPARTMENT			ŧ	F BAG (IN.):			
NO. OF CARTRIDGES: TOTAL FILTER SURFACE AREA (FT²): 264		AIR TO CLOTH RAT			DIAMETER	OF BAG (IN	.): 5./5		
DRAFT TYPE: INDUCED/NEGA		FORCED/POSITIVE		FILTER MA	TEDIAL :	□ wov	(Ex)	FELTED	
DESCRIBE CLEANING PROCEDURES:	IIVE	- PORCED/POSITIVE	•	FILTER MA	I ERIAL:			STRIBUTION	
✓ AIR PULSE		SONIC			6170			7	
REVERSE FLOW		SIMPLE BAG COLL	ADCE		SIZE		VEIGHT %	COP	MULATIVE
	[:1				(MICRO	NO) (	OF TOTAL		%
☐ MECHANICAL/SHAKER ☐ OTHER:		RING BAG COLLAP	'8E		0-1	_		-	
DESCRIBE INCOMING AIR STREAM:					1-10			-	_
					10-25	-			
Dust (particulate emissions) exhaust from co	nveyors, elevat	ors, and bins inside of	f the building.		25-50			-	
					50-10	_		-	
					>100	1		TOTAL - 100	
				0 4				TOTAL = 100	
ON A SEPARATE PAGE, ATTACH A DIAGR	RAM SHOWING	THE RELATIONSHIP	OF THE CONTRO	X. DEVICE TO	O ITS EMISS	ION SOURCE	E(S):		
COMMENTS:									

REVISEO 09/22/16 NCDEQ/	Vivision of Air Quality	•	or Air Permit to C	•	perate				C1
	CONTROLS EMISS					ESCPL1-2	ROA ESC	91 1.280	
CONTROL DEVICE ID NO: CDB8	280C, ESCPL2-280/	A, ESCP12-280	B, ESCPL2-280C	, ESCPL1-6	00, ESC	PL2-600, E	SCPL3-60	O, ESCP	900, ESCPA9,
EMISSION POINT (STACK) ID NO(S): EP S8	POSITION IN SERIE			P3, IS-ESCI	74, IS-E3 NO.	OF			N/A
OPERATING SCENARIO:	POSITION IN BURIE	LG OF CONTRO	OLS N/A		NO.	OF		NITS	IVA
1 OF 1		DE SEAL DE	QUIRED (PER 2c	011212	<b>7</b>	/E¢		NO	
DESCRIBE CONTROL SYSTEM;		11.2.02.2.10	AUTON ALD (I LIVE	(.STIE):		LO			
Induced draft fan pulls PM emissions from all emission so baghouse.	urces specified above to	baghouse (CD	B8). A∦ emissions	sources are	e totzily e	anclosed in	ductwork (	that direct	s air flow to the
POLLUTANTS COLLECTED:		TSP	PM10						
BEFORE CONTROL EMISSION RATE (LB/HR):		2.70	0.99						
CAPTURE EFFICIENCY:		%	······································	<b>%</b>		% <u> </u>	%	•	
CONTROL DEVICE EFFICIENCY:		%		%		<b></b>			
CORRESPONDING OVERALL EFFICIENCY:		99,97 %	99.92	%		%		<b>.</b>	
EFFICIENCY DETERMINATION CODE:				_	<del></del>	_			
TOTAL AFTER CONTROL EMISSION RATE (LB/HR):  PRESSURE DROP (IN H <sub>2</sub> 0): MIN: MAX;	GAUGE?	7.92E-04	7,92E-04						
BULK PARTICLE DENSITY (LB/FT³):	GAUGE:	1		MIN 100		MAX 200			
POLLUTANT LOADING RATE: LB/HR	☐ GR/FT³	1	PERATURE (°F)			MAX 200	_		
INLET AIR FLOW RATE (ACFM): 23,000		!	RATING TEMP (°F		,	MAX 200			
	S PER COMPARTMENT	-	- 1	 LENGTH O	F BAG (	N.): 100.5			
	ACE AREA PER CAR			DIAMETER					
TOTAL FILTER SURFACE AREA (FT²): 5472	AIR TO CLOTH RAT	ľjO: 4,6							
DRAFT TYPE:  INDUCED/NEGATIVE [	FORCED/POSITIVE		FILTER MA	TERIAL:	_ĭ \	WOVEN	□ F	ELTED	
DESCRIBE CLEANING PROCEDURES:					PAI	RTICLE SIZ	E DISTRI	BUTTON	
☑ AIR PULSE	SONIC			SIZE	: 1	WEIGH	T %	CUM	ULATIVE
REVERSE FLOW	SIMPLE BAG COLL	APSE		(MICRO	NS)	OF TOT	ΓAL		%
☐ MECHANICAL/SHAKER ☐	RING BAG COLLAP	SE		0-1					
U OTHER:				1-10					
DESCRIBE INCOMING AIR STREAM:				10-28	5				
Dust (particulate emissions) exhaust from conveyors and	oins inside of the building	g.		25-50					
				50-10	_				
				>100					
			1				TOTA	L = 100	
ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOW!	NG THE RELATIONSHI	IP OF THE COM	NTROL DEVIÇE T	O ITS EMIS	SION S	OURCE(\$):			
COMMENTS:									

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate C1									C1	
CONTRAL DEVICE ID NO. CORA		CONTROL O FILID	NAME FORMAN	II CI I EL II COI OL		6/B) E6				
CONTROL DEVICE ID NO: COB9 EMISSION POINT (STACK) ID NO(S):	EP S9	POSITION IN SER				O(S): ES( NO.	OF OF	LINUTA	N/A	
OPERATING S		POSITION IN SER	ES OF CONTRO	LS IVA		NO.	OF .	UNITS	NA	-
1OF	1		P.E. SEAL REC	HIDED (DER 2	a 011212	√ YES		□ NO		
DESCRIBE CONTROL SYSTEM:	<del></del>		1 12,0212112	TORRED (FERT	4.0112):		_			
Induced draft fan pulls PM emissions from a baghouse.	allemiseton s	ources specified above t	to baghouse (CDI	39). All emission	ns sources are to	otally encl	osed in duct	work that dire	cte air flo	w to the
POLLUTANTS COLLECTED:			PM(includes P)	110 and TSP)				_		
BÉFORE CONTROL EMISSION RATE (LB	/HR):		1257.32					_		
CAPTURE EFFICIENCY:			%		_%	%		%		
CONTROL DEVICE EFFICIENCY;			%		_%	<u>%</u>		%		
CORRESPONDING OVERALL EFFICIENC	Υ:		99.92 %		_%	%		%		
EFFICIENCY DETERMINATION CODE:								_		
TOTAL AFTER CONTROL EMISSION RAT	E (LB/HR):		1.01				··· ·· 11.444.			
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	□ NO						
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):		□\	INLET TEMPE	, ,	MIN 250	MAX				
POLLUTANT LOADING RATE:	LB/HR	☐ GR/FT³		'ERATURE (°F)		MAX	<b>4</b> 50			
INLET AIR FLOW RATE (ACFM): 30,000	1		FILTER OPER	ATING TEMP (°	T					
NO. OF COMPARTMENTS: 1		3S PER COMPARTMEN			LENGTH OF B	AG (IN.):	100.5			
NO. OF CARTRIDGES:		RFACE AREA PER CAR			DIAMETER OF	BAG (IN	); 5.75			
TOTAL FILTER SURFACE AREA (FT2): 63		AIR TO CLOTH RA					-			
DRAFT TYPE:  INDUCED/NEG/	ATIVE	☐ FORCED/POSITIVE	E	FILTER M	ATERIAL:	□ wov		FELTED		
DESCRIBE CLEANING PROCEDURES:		_			September 1			DISTRIBUTIO		50.1
✓ AIR PULSE	l	SONIC			SIZE		VEIGHT %	CI	UMULAT	IVΕ
REVERSE FLOW	L	SIMPLE BAG COLI			(MICRONS	()	OF TOTAL	-	%	
☐ MECHANICAL/SHAKER	Į		PSE		0-1	_				
OTHER:					1-10					
DESCRIBE INCOMING AIR STREAM:					10-25					
Dust (Particular matter) and combustion em	lasiona exha	ust from the dryer			25-50			-		
					50-100			_		
					>100					
								TQTAL = 10	0	
ON A SEPARATE PAGE, ATTACH A DIAG	RAM SHOW	ING THE RELATIONSH	IP OF THE CONT	ROL DEVICE T	O ITS EMISSIO	N SOURC	E(S):			
COMMENTS:										

REVISED 09/22/16	NCDEC	0/Division of Air Quality	- Application for Air	Permit to 0	onstruct/Ope	rate			C1
CONTROL DEVICE ID NO: CDB10		CONTROLS EMIS	SIONS FROM WHICH	EMISSION	SOURCE ID N	IO(\$): ESC	CPPH2		
EMISSION POINT (STACK) ID NO(S):	EP S10	POSITION IN SER	IES OF CONTROLS N	l/A		NO.	OF	UNITS	N/A
OPERATING SC	CENARIO:								
1OF_	_1		P.E. SEAL REQUIR	ED (PER 20	,0112)?	√ YES	[	NO	
DESCRIBE CONTROL SYSTEM:									
Induced draft fan pulls PM emissions from a the baghouse.	ll emission :	sources specified above	to baghouse (CDB10).	. All emissio	ns sources are	totally end	elosed in ductwo	ork that direc	ts air flow to
POLLUTANTS COLLECTED:			PM(includes PM10	and TSP)					
BEFORE CONTROL EMISSION RATE (LB/	HR):		1257.32						
CAPTURE EFFICIENCY:			%		%	*		%	
CONTROL DEVICE EFFICIENCY:			<u></u> %		.%	%		%	
CORRESPONDING OVERALL EFFICIENCY	<b>Y</b> :		99.92 %	<del></del>	%	%		%	
EFFICIENCY DETERMINATION CODE:			<del></del>						
TOTAL AFTER CONTROL EMISSION RATI	E (LB/HR):		1,01						
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX;	GAUGE?	T	NO					
BULK PARTICLE DENSITY (LB/FT³):	1	- an end	INLET TEMPERATI		MIN 250	XAM			
	LB/HR	☐ GR/FT³	OUTLET TEMPERA			MAX	450		
INLET AIR FLOW RATE (ACFM): 30,000			FILTER OPERATIN		i				
		GS PER COMPARTMEN			LENGTH OF I				
		RFACE AREA PER CAR			DIAMETER O	F BAG (IN	.): 5.75		
TOTAL FILTER SURFACE AREA (FT²): 635		AIR TO CLOTH RA				_			
DRAFT TYPE: INDUCED/NEGA	TIVE	☐ FORCED/POSITIV	<b>∕</b> €	FILTER MA	TERIAL:	∐ wov		FELTED	
DESCRIBE CLEANING PROCEDURES:						PARTK	CLE SIZE DIST	1	
☑ AIR PULSE		SONIC			SIZE		VEIGHT %	CUMI	ULATIVE
REVERSE FLOW		SIMPLE BAG COL			(MICRONS	5) (	OF TOTAL		%
MECHANICAL/SHAKER		RING BAG COLLA	PSE		0-1				
OTHER:					1-10				
DESCRIBE INCOMING AIR STREAM:					10-25				
Dust (Particular matter) and combustion emi	issions exha	sust from the dayer			25-50				
					50-100				
					>100				
							TC	TAL = 100	
ON A SEPARATE PAGE, ATTACH A DIAGR	RAM SHOW	ING THE RELATIONSH	IP OF THE CONTROL	DEVICE TO	TS EMISSIC	N SOURC	E(S):		
COMMENTS:									

REVISED 09/22/16 NCDEQ/DMston of Air Quality - Application for Air Permit to Construct/Operate									C1	
		1								
CONTROL DEVICE ID NO: CDB11		CONTROLS EMISS	IONS FROM WHIC	H EMISSION	SOURCE ID NO(S	S): ESCPI	W1			
EMISSION POINT (STACK) ID NO(S):	EP S11	POSITION IN SERIE			NO			UNITS	N/A	
OPERATING S	CENARIO:									
1 OF	1		P.E. SEAL REQUI	RED (PER 2n	.0112)?	YES	1	NO	_	
DESCRIBE CONTROL SYSTEM:			Trial our in the do	INED (I EIVEQ		100	<del></del>			
Induced draft fan pulls PM emissions from a baghouse.	ill emission sourc	ces specified above to	o baghouse (CDB11	). All emission	ns sources are tob	ally endor	sed in ductwo	rk that dire	ats air f	low to the
POLLUTANTS COLLECTED:			TSP	PM10						
BEFORE CONTROL EMISSION RATE (LB	HR):		2630.67	1244.24	. <u>-</u>					4.0
CAPTURE EFFICIENCY:			%		%	_%		%		
CONTROL DEVICE EFFICIENCY:			%		%	_% _		%		
CORRESPONDING OVERALL EFFICIENC	<b>Y</b> :		99.97 %	99,92	%	_% _	,	%		
EFFICIENCY DETERMINATION CODE:						<u>.</u> .	<del></del>			
TOTAL AFTER CONTROL EMISSION RAT	E (LB/HR):		0.77	1,00	H- 44-10					
PRESSURE DROP (IN H20): MIN:	MAX:	GAUGE?	☐ YES	□ NO						
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):			INLET TEMPERA	TURE (°F):	MIN 150	MAX 25	50			
POLLUTANT LOADING RATE:	LB/HR	GR/FT <sup>3</sup>	OUTLET TEMPER	ATURE (°F)	MIN 150	MAX 25	50			
INLET AIR FLOW RATE (ACFM): 13,000			FILTER OPERATI	NG TEMP (°F	):					
NO. OF COMPARTMENTS: 1	NO. OF BAGS F	PER COMPARTMENT	T: 210		LENGTH OF BAG	(IN.): 10	0.5			
NO. OF CARTRIDGES:		GE AREA PER CART	TRIDGE (FT²):		DIAMETER OF B	AG (IN.):	5.75			
TOTAL FILTER SURFACE AREA (FT2): 26	48	AIR TO CLOTH RAT	TIO: 4.9							
DRAFT TYPE: ☑ (NDUCED/NEGA	ATIVE	FORCED/POSITIVE		FILTER MA	TERIAL:	WOVE	N 🗆	FELTED		
DESCRIBE CLEANING PROCEDURES:						PARTICI	LE SIZE DIST	RIBUTION		
☑ AIR PULSE		SONIC			SIZE	WE	IGHT %	CUI	MULAT	IVE
REVERSE FLOW		SIMPLE BAG COLL	APSE		(MICRONS)	OF	TOTAL		%	
☐ MECHANICAL/SHAKER		RING BAG COLLAP	SE		0-1					
OTHER:					1-10					
DESCRIBE INCOMING AIR STREAM:					10-25	1				
Dust (Particular matter) emissions exhaust t	from the Miver				25-50					
Past (Fallocidi Indeed) Citagolis Calibrat	IIOII die Hilaei				50-100					
					>100	1				
							T(	TAL = 100		
ON A SEPARATE PAGE, ATTACH A DIAG	RAM SHOWING	THE RELATIONSHIP	P OF THE CONTRO	DEVICE TO	TIS EMISSION S	SOURCE(	8):			
COMMENTS:										

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate C1										1
CONTROL DEVICE ID NO: CDB12		CONTROLS EMISS	IONS FROM WHIC	H EMISSION	SOURCE ID N	7/8)- ESC	DM2			
	EP S12	POSITION IN SERIE				NO,	OF	UNITS	N/A	
OPERATING SO		I CONTORNIA GERM	- CONTROLL	1101		10,	<u> </u>	Onjiu	INF	
10F	1		P.E. SEAL REQU	DED /DED 2-	A11212	7 VEC		□ NO	_	
DESCRIBE CONTROL SYSTEM:			F.E. SCAL REQU	RCD (FER 20	,u112)?	✓ YES		NO		
Induced draft fan pulls PM emissions from al baghouse.	ll emission sour	roes specified above to	b baghouse (CDB12	2). All emissio	ns sources are	totally end	losed in du	ictwork that din	ects air flow	v to the
POLLUTANTS COLLECTED:			TSP	PM10						
BEFORE CONTROL EMISSION RATE (LB/I	HR):		2630.67	1244.24	· —	<del></del> -				
CAPTURE EFFICIENCY:			%		.%	%		<u></u> %		
CONTROL DEVICE EFFICIENCY:			%	<del></del>	.%	%		%		
CORRESPONDING OVERALL EFFICIENCY	<b>r</b> :		99.97 %	99,92	.%	%		%		
EFFICIENCY DETERMINATION CODE:			<del></del>			_		_		
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		0,77	1.00						
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	□ NO						
BULK PARTICLE DENSITY (LB/FT³):			INLET TEMPERA		MIN 150	MAX	250	20.00		
POLLUTANT LOADING RATE:	LB/HR	☐ GR/FT³	OUTLET TEMPER	RATURE (°F)	MIN 150	XAM	250			
INLET AIR FLOW RATE (ACFM): 13,000			FILTER OPERAT	NG TEMP (°F	):					
NO. OF COMPARTMENTS: 1	NO, OF BAGS	PER COMPARTMENT	Γ: 210		LENGTH OF B	AG (1N.):	100.5			
NO. OF CARTRIDGES:	FILTER SURFA	ACE AREA PER CART	RIDGE (FT²);		DIAMETER OF	BAG (IN	): 5.75			
TOTAL FILTER SURFACE AREA (FT <sup>2</sup> ): 264	18	AIR TO CLOTH RAT	TIO: 4.9							
DRAFT TYPE: ☑ INDUCED/NEGA	TIVE 🗌	FORCED/POSITIVE		FILTER MA	TERIAL:	□ wov	EN	FELTED		
DESCRIBE CLEANING PROCEDURES:						PART	CLE SIZE	DISTRIBUTIO	N	
AIR PULSE		SONIC			SIZE	V	VEIGHT %	Ç	JMULATIV	E
REVERSE FLOW		SIMPLE BAG COLL	APSE		(MICRONS	) (	F TOTAL		%	
MECHANICAL/SHAKER		RING BAG COLLAP	SE		0-1					
OTHER:					1-10	17				
DESCRIBE INCOMING AIR STREAM:					10-25					
Dust (Particular matter) emissions exhaust fi	rom the Miver				25-50					
	OTT SHE WILLOW				50-100					
					>100					
						-		TOTAL = 10	o o	
					_				-	
ON A SEPARATE PAGE, ATTACH A DIAGR	RAM SHOWING	THE RELATIONSHIP	OF THE CONTRO	DL DEVIÇE TO	O ITS EMISSIO	NSOURC	E(S):			
COMMENTS:										

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CONTROL DEVICE ID NO: CD#13		CONTROLS EMISSI								
	EP S13	POSITION IN SERIE	S OF CONTROLS	N/A		NO.	OF	UNITS	N/A	
OPERATING SC	1100							_		_
1OF_ DESCRIBE CONTROL SYSTEM:	1		P.E. SEAL REQUIP	RED (PER 2q	.0112)?	✓ YES		U NO		-
Induced draft fan pulls PM emissions from a the baghouse.	uoe noissime II	rces specified above to	baghouse (CDB13)	. All emission	ns sources are t	otally end	dosed in duct	work that dire	acis air fi	low to
POLLUTANTS COLLECTED:			PM(includes PM10	and TSP)		<u>.                                    </u>		_		
BEFORE CONTROL EMISSION RATE (LB/	HR):		2668.32	·		_		_		
CAPTURE EFFICIENCY:			%		%	%		_%		
CONTROL DEVICE EFFICIENCY:			%		%	%	-	_%		
CORRESPONDING OVERALL EFFICIENC	Y:		99.92 %		%	<sup>%</sup>		_%		
EFFICIENCY DETERMINATION CODE:								_		
TOTAL AFTER CONTROL EMISSION RAT	E (LB/HR):		2.13					**		
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES [	NO						
BULK PARTICLE DENSITY (LB/FT3):			INLET TEMPERAT		MIN 300	MAX	450			
	LB/HR	☐ GR/FT³	OUTLET TEMPER			MAX	450			
INLET AIR FLOW RATE (ACFM): 50,000			FILTER OPERATION	IG TEMP (°F						
	i	PER COMPARTMENT			LENGTH OF B					
	-	ACE AREA PER CART			DIAMETER OF	BAG (IN	.): 5.75			
TOTAL FILTER SURFACE AREA (FT²): 10:	_	AIR TO CLOTH RAT								
DRAFT TYPE: INDUCED/NEGA DESCRIBE CLEANING PROCEDURES:	IIIVE _	FORCED/POSITIVE		FILTER MA	TERIAL:	U WOV		FELTED	- 7	
_	<del></del>	DOLLID			A.TE		CLE SIZE DIS			45
✓ AIR PULSE  REVERSE FLOW		SONIC SIMPLE BAG COLL	ADCE		SIZE	1	VEIGHT %	00	MULATI ~	VE
					(MICRONS	, , ,	OF TOTAL	+	%	
☐ MECHANICAL/SHAKER ☐ OTHER:		RING BAG COLLAP	SE	1	0-1	-				
DESCRIBE INCOMING AIR STREAM:					1-10	-		-	-	
					10-25 25-50	-		+		
Dust (Particular matter) and combustion em	issions exhaus	t from the naturat gas-fi	red kiln			-				
					50-100 >100	-		1		
					>100			OTAL = 100		
ON A SEPARATE PAGE, ATTACH A DIAGI	RAM SHOWIN	G THE RELATIONSHIP	OF THE CONTRO	L DEVICE TO	TS EMISSIO	N SOURC	E(S):			
COMMENTO.										

REVISED 09/22/16	NCDEQ/D	ivision of Air Quality	- Application for A		•	perate				C1
CONTROL DEVICE ID NO: CDB14		CONTROLS EMISS	IONS FROM WHI	SH EMISSION S	SOURCE IN	NOVS V ES	CPK2			
	EP S14	POSITION IN SERIE			WORKE ID	NQ.	OF OF	UNITS	N/A	
OPERATING S		I OBLION IN SCRIE	LO O GONTROLS	en		IV.	VI	OMIO	1475	
1 OF	1		P.E. SEAL REQU	IBED (PER 2a	011212	✓ YES		□ NO		
DESCRIBE CONTROL SYSTEM:			IF IE. OEAL REGO	17CD (1 CT 24	.01127:	V IEA	<u>'</u>			
Induced draft হিন pulls PM emissions from a the baghouse.	ill emission sou	rces specified above to	o baghouse (CDB1	4). All emission	s sources a	re totally en	iclosed in duct	work that din	ects air	flow to
POLLUTANTS COLLECTED:			PM(Includes PM1	0 and TSP)						
BEFORE CONTROL EMISSION RATE (LB/	MR):		2668.32		_			_		
CAPTURE EFFICIENCY;			%		%	%		_%		
CONTROL DEVICE EFFICIENCY:			%		%	%		%		
CORRESPONDING OVERALL EFFICIENC	Y:		99,92 %		%	%		%		
EFFICIENCY DETERMINATION CODE:							- <del></del>	-		
TOTAL AFTER CONTROL EMISSION RAT	E (LB/HR):		2.13							
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	□ NO						
BULK PARTICLE DENSITY (LB/FT3):		pana,	INLET TEMPERA		MIN 300		K 450			
POLLUTANT LOADING RATE:	LB/HR	GR/FT <sup>3</sup>	OUTLET TEMPE			MAX	K 450	_		
INLET AIR FLOW RATE (ACFM): 50,000			FILTER OPERAT						_	
NO. OF COMPARTMENTS: 1		PER COMPARTMENT				F BAG (IN.)				
NO. OF CARTRIDGES:		ACE AREA PER CART			DIAMETER	OF BAG (II	N.): 5.75			
TOTAL FILTER SURFACE AREA (FT²): 10		AIR TO CLOTH RAT				(m)		1		
DRAFT TYPE: INDUCED/NEGA	ATIVE L	J FORCED/POSITIVE		FILTER MA	TERIAL:	wo		, ,	324	-
DESCRIBE CLEANING PROCEDURES:	_	,		1		-т-	ICLE SIZE DI	1		
☑ AIR PULSE	_	SONIC			SIZE	- 1	WEIGHT %	cu	MULAT	IVE
REVERSE FLOW		SIMPLE BAG COLL			(MICRO	NS)	OF TOTAL	-	%	
MECHANICAL/SHAKER		RING BAG COLLAP	PSE		0-1					
OTHER:					1-10	_		-		
DESCRIBE INCOMING AIR STREAM:					10-2	5				
Dust (Particular matter) and combustion em	issions exhaus	at from the natural gas-f	fired kilin		25-50	0				
					50-10	00				
					>100					
								TOTAL = 10(		
ON A SEPARATE PAGE, ATTACH A DIAG COMMENTS:	RAM SHOWIN	IG THE RELATIONSHI	P OF THE CONTR	OL DEVICE TO	D ITS EMISS	SION SOUR	CE(S):			

REVISED 09/22/16	NCDEQ/DI	vision of Air Quality	- Application for A	`	onstruct/Operat	•		C1
CONTROL DENICE ID NO. COOKS								ESCPL1-280C, ESCPL2-
CONTROL DEVICE ID NO: CD815 EMISSION POINT (STACK) ID NO(S):	EP S17	POSITION IN SERIE			ESCPL2-600, ES		ESCP900, ESCPA9, ES F UNITS	
OPERATING SC		FOSTION IN SERIE	CONTROLS	IVA	IN		r DINITS	N/A
10F_	_1_		P.E. SEAL REQU	IDEN (DED 2a	011333	YES	П NO	
DESCRIBE CONTROL SYSTEM:			F.E. BEAL REQU	inco (r en 20	MITEH C	100	11 NO	
Induced draft fan pulls PM emissions from al	It ambeeion eouro	ree energied above to	haghouse /CDR15	All amlerion	e kalikana ara Ink	allu onalonad	l in dustriadi that disaste	air flow to the heathering
modeo oran fari pulis Piw emissions from a	ir ettiissium sõute	es specified above to	nagriouse (CDB is	). All emission	s sources are tot	ally enclosed	in ductwork that direct	all now to the baghouse.
POLLUTANTS COLLECTED:			TSP	PM10				
BEFORE CONTROL EMISSION RATE (LB/I	HR):		19.16	6,74				
CAPTURE EFFICIENCY:			%		%	%	%	
CONTROL DEVICE EFFICIENCY:			%		%	_% _	%	
CORRESPONDING OVERALL EFFICIENC	Y:		99,97 %	99,92	%	_%	%	
EFFICIENCY DETERMINATION CODE:			<del></del>					
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR);		6.00E-03	5,00E-03				
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	NO.				
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):			INLET TEMPERA	TUR£ (ºF):	MIN 150	MAX 250		
POLLUTANT LOADING RATE:	LB/HR	GR/FT <sup>3</sup>	OUTLET TEMPER			MAX 250		
INLET AIR FLOW RATE (ACFM): 27,500			FILTER OPERATI					
		PER COMPARTMENT			LENGTH OF BA			
NO. OF CARTRIDGES:		CE AREA PER CART			DIAMETER OF 8	BAG (IN.); 5,	75	
TOTAL FILTER SURFACE AREA (FT <sup>2</sup> ): 582		AIR TO CLOTH RAT				1	II	
DRAFT TYPE:   INDUCEDINEGA  DESCRIBE CLEANING PROCEDURES:	THAF E	FORCEO/POSITIVE		FILTER MA	TERIAL: 1	_ WOVEN	TICLE SIZE DISTRIBU	TION
AIR PULSE		SONIC		1	ė.zc			
REVERSE FLOW	-	SONIC SIMPLE BAG COLL	ADÇE		SIZE (MICRONS)		GHT % TOTAL	CUMULATIVE
☐ MECHANICAL/SHAKER	-	RING BAG COLLAP				UF I	CIAL	%
OTHER:	_	KING BAG COLDAF	<b>3</b> E.		1-10	-	+	
DESCRIBE INCOMING AIR STREAM:					10-25	+		
Durat (continuents agricultural) automost frame on					25-50	+	-	-
Dust (particulate emissions) exhaust from co	onveyors, oins. e	nevators, and screene	rs make or the buil	ang.	50-100			
					>100	_	1	
					- 100		TOTAL	- 100
							TOTAL	- 100
				1				
ON A SEPARATE PAGE, ATTACH A DIAGR	OALI CLIOUVING	THE BEL ATIONSHIP	OF THE CONTRO	N DEVICE TO	TTE EMISSION (	NO UDOCION		
COMMENTS:	Our GHOTHING	THE RELATIONSHIP	OF THE CONTING	C DEVICE TO	II S EMISSION S	SOUNCE(S):	:	
		844	ldditional Ch	4- 4- 51				

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CONTROL DEVICE ID NO: CDB16		CONTROLS EMISSI							
EMISSION POINT (STACK) ID NO(S):		POSITION IN SERIE	S OF CONTROLS	N/A	l l	NO.	OF	UNITS	N/A
OPERATING SC	DIRECTOR OF							-	
1OF DESCRIBE CONTROL SYSTEM:	1		P.E. SEAL REQUI	RED (PER 2q	.0112)?	✓ YES		□ NO	
Induced draft fan pulis PM ernissions from al baghouse.	ll emission sour	cea specified above to	beghouse (CDB16	i). All emission	na sources are t	totaily end	llosed in du	ctwork that dire	ects air flow to the
					_		_		
POLLUTANTS COLLECTED:			TSP	PM10		_		_	
BEFORE CONTROL EMISSION RATE (LB/	HR):		22.64	7.92	_	_		_	
CAPTURE EFFICIENCY:			%		% <u> </u>	%		<del></del> %	
CONTROL DEVICE EFFICIENCY:			%		%	<del></del> %		···- %	
CORRESPONDING OVERALL EFFICIENCY	Y:		99.97_%	99.92	%	%		%	
EFFICIENCY DETERMINATION CODE:				*******	<del></del>				
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		6,30E-03	6.30E-03	. N			_ 0.0	
PRESSURE DROP (IN H <sub>2</sub> 0): MIN:	MAX:	GAUGE?	YES	□ NO					
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):			INLET TEMPERA	TURE (°F):	MIN	MAX			
POLLUTANT LOADING RATE:	LB/HR	GR/FT <sup>3</sup>	OUTLET TEMPER	ATURE (F)	MIN	MAX			
INLET AIR FLOW RATE (ACFM):			FILTER OPERATI	NG TEMP (°F	):				
NO. OF COMPARTMENTS:	NO. OF BAGS	PER COMPARTMENT	:		LENGTH OF B	AG (IN.):	100.5		
NO. OF CARTRIDGES:	FILTER SURFA	CE AREA PER CART	RIDGE (FT <sup>2</sup> ):		DIAMETER OF	BAG (IN	.): 5.75		
TOTAL FILTER SURFACE AREA (FT2):		AIR TO CLOTH RAT	TO:						
DRAFT TYPE: INDUCED/NEGA	TIVE	FORGED/POSITIVE		FILTER MA	TERIAL:	□ wov	ŒN [	FELTED	
DESCRIBE CLEANING PROCEDURES:						PART	CLE SIZE I	DISTRIBUTIO	N
☑ AIR PULSE		SONIC			SIZE	١ ٧	VEIGHT %	CL	JMULATIVE
REVERSE FLOW		SIMPLE BAG COLL	APSE		(MICRONS	) (	OF TOTAL		%
MECHANICAL/SHAKER		RING BAG COLLAP	SE		0-1				
OTHER:					1-10				
DESCRIBE INCOMING AIR STREAM:					10-25				
Dust (particulate emissions) exhaust from co	priveyors, bins,	crushers, and screene	rs inside of the buil	ding.	25-50				
					50-100				
					>100				
								TOTAL ≈ 10	0
			_	2 - N					
ON A SEPARATE PAGE, ATTACH A DIAGR	RAM SHOWING	THE RELATIONSHIP	OF THE CONTRO	DEVICE TO	TS EMISSIO	NSOURC	E(S):		
COMMENTS:									

Induced draft fan pulls PM emissions from all emission sources specified above to baghouse (CDB17). All emissions acurces are totally enclosed in ductwork that directs eir flow the baghouse.  POLLUTANTS COLLECTED:  TSP PM10  POLLUTANTS COLLECTED:  TSP PM10  CAPTURE EFFICIENCY:  7.08  2.81  CAPTURE EFFICIENCY:  96.97  97  98.97  99.92  98.92  9	REVISED 09/22/16	NCDEQ/Di	vision of Air Quality	- Application for A	Air Permit to C	onstruct/Ope	ate			C1
EMISSION POINT (STACK) ID ACIGN:  OPERATING SCENARIO:  1										
OPERATING SCENARIO:    OF   P.E. SEAL REQUIRED (PER 2q, 0112)?   YES   NO	CONTROL DEVICE ID NO: CDB17		CONTROLS EMISS	SIONS FROM WHIC	H EMISSION	SOURCE ID N	O(S): ESA	2, ESA3, ESA4,	ESA8, ESA	9, ESA12
DESCRIBE CONTROL SYSTEM:  Induced first far puls PM emissions from all emission sources specified above to beginouse (CD817). All emissions sources are totally enclosed in ductional, that directs air flow the beginouse.  POLLUTANTS COLLECTED:  TSP PM10  PM10  POLLUTANTS COLLECTED:  TSP PM10  P	EMISSION POINT (STACK) ID NO(S):	EP S17	POSITION IN SERI	ES OF CONTROLS	N/A	Ī	NO.	OF L	JNITS	N/A
DESCRIBE CONTROL SYSTEM  Induced draft fan puls PM erriseions from all erriseion sources specified above to beginouse (CDB17). All cministions sources are totally enclosed in durdwork that directe air flow the beginouse.  POLLUTANTS COLLECTED:  TSP PM10  EFFORE CONTROL EMISSION RATE (LEARR):  7.06 2.81  CAPTURE EFFICIENCY:  98.97 % 99.92 % % %  CONTROL DEVICE EFFICIENCY:  98.97 % 99.92 % % %  FFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LBHR):  2.06E.03 2.39E.413  EFFICIENCY DETERMINATION CONTROL EMISSION RATE (LBHR):  EULK PARTICLE DENSITY (LBRT*):  NILET TEMPERATURE (P):  NINE TEMPERATURE (	OPERATING SC	CENARIO:								
Induced draft fam pulse PM emissions from all emission sources specified above to baghouse (CDB17). All emissions sources are totally emotosed in ductwork that directe of flow the baghouse.  POLLUTANTS COLLECTED:  TSP PM10  PM10  CAPTURE EFFICIENCY:  7.08  2.81  CAPTURE EFFICIENCY:  98.97 % % % % %  CONTROL DEVICE EFFICIENCY:  98.97 % 99.92 % % % %  EFFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LB/HR):  2.006.93  2.306.03  PRESSURE DROP (NH Jp): MIN. MAX:  GAUGE?  PRESSURE DROP (NH Jp): MIN. MAX:  GAUGE?  PRESSURE DROP (NH Jp): MIN. MAX:  GAUGE?  PRESSURE DROP (NH Jp): MIN. MAX:  GAUGE?  PRESSURE DROP (NH Jp): MIN. MAX:  GAUGE?  PRESSURE DROP (NH Jp): MIN. MAX:  GRUPT?  INLET TEMPERATURE (*P): MIN. MAX  POLILUTANT LOADING RATE:  NO. OF BASS PER COMPARTMENTS:  NO. OF BASS PER COMPARTMENTS:  NO. OF COARTHOLOSE:  PILTER DEPARTMENTS:  NO. OF BASS PER COMPARTMENTS:  NO. OF COARTHOLOSE:  PILTER SURFACE AREA (FT'):  DRAFT TYPE:  NEUCEDINEGATIVE:  ART TO CLOTH RATIO:  DRAFT TYPE:  NO INDUCEDINEGATIVE:  SONIC  ART TO CLOTH RATIO:  DRAFT TYPE:  NO EXCENDED LABAND PROCEDURES:  PARTICLE SUB DISTRIBUTION  SOZE  PARTICLE SUB DISTRIBUTION  SOZE  PARTICLE SUB DISTRIBUTION  SOZE  PARTICLE SUB DISTRIBUTION  TOTAL = 100  NO A SEPARATE PAGE. ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO RIS EMISSION SOURCE(S):	1 OF	_1_		P.E. SEAL REQU	IRED (PER 20	.0112)?	✓ YES		NO	
POLLUTANTS COLLECTED:  TSP PMIO  BEFORE CONTROL EMISSION RATE (LBritq):  CAPTURE EFFICIENCY:  % % % % %  CONTROL DEVICE EFFICIENCY:  % % % % % %  CONTROL DEVICE EFFICIENCY:  GORRESPONDING OVERALL EFFICIENCY:  GORRESPONDING OVE	DESCRIBE CONTROL SYSTEM:			<del></del>						
BEFORE CONTROL EMISSION RATE (LBHR): 7.06 2.81  CAPTURE EFFICIENCY: 9. 9.97		ll emission sour	cas specified above t	o baghouse (CDB1)	7). All emission	ns sources are	tobally end	closed in ductwar	k (hat direct	is air flow to
CAPTURE EFFICIENCY:    %	POLLUTANTS COLLECTED:			TSP	PM10					
CONTROL DEVICE EFFICIENCY:  98.97 % 99.92 % % % %  EFFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LE/HR):  2.00E.03 2.30E.03  EFFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LE/HR):  2.00E.03 2.30E.03  ENLIST PRESSURE DROP (IN H <sub>2</sub> 0): MIM: MAX: GAUGE? YES NO  BULK PARTICLE DENSITY (LE/HPT):  NAME OF COMPARTMENT OF TEMPERATURE (FP): MIM: MAX:  POLILITANT LOADING RATE: LEMR GRIFT:  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT:  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT:  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT: LENGTH OF BAG (IN): 100.5  FILTER SURFACE AREA (FT*): DIAMETER OF BAG (IN): 101.5  TOTAL FILTER SURFACE AREA (FT*): DIAMETER OF BAG (IN): 101.5  DEACT TYPE: INDUCEDINEGATIVE FORCEOPOSITIVE FILTER MATERIAL: NOVEN FELTED  DESCRIBE CLEANING PROCEDURES  AR PULSE SONIC SIMPLE BAG COLLAPSE (MIGRONS) OF TOTAL %  CESCRIBE INCOMING AIR STREAM:  DUAL (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ONA SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	BEFORE CONTROL EMISSION RATE (LB/	HR):		7.06	2.81					
CORRESPONDING OVERALL EFFICIENCY:  99.97 % 99.92 % % %  EFFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LB/HR):  2.00E-03 2.30E-03 2.30E-03 2.30E-03 2.30E-03 2.30E-03 EULK PARTICLE DENSITY (LB/HT):  NULET TEMPERATURE (*F):  NINE TEMPERATURE (*F):  NINE TEMPERATURE (*F):  NINE TEMPERATURE (*F):  NINE ART FLOW RATE (ACFM):  NO. OF COMPATTMENTS:  NO. OF COMPATTMENTS:  NO. OF COMPATTMENTS:  NO. OF CARTRIDGES:  FILTER SURFACE AREA PER CARTRIDGE (FT):  DIAMETER OF BAG (IN): 100.5  TOTAL FILTER SURFACE AREA (FT):  ART TO CLOTH RATIO:  DESCRIBE CLEANING PROCEDURES:  REVERSE FLOW  SIMPLE BAG COLLAPSE  MECHANICAL/SHAKER  RING BAG COLLAPSE  MECHANICAL/SHAKER  RING BAG COLLAPSE  OTHER  DUST (particulate amissions) availust from conveyors, bins, and orushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	CAPTURE EFFICIENCY:			%		.%	%		У <sub>0</sub>	
EFFICIENCY DETERMINATION CODE:  TOTAL AFTER CONTROL EMISSION RATE (LB/HR):  2,00E-03  2,30E-03  2,30E-03  PRESSURE DROP (IN H <sub>2</sub> 0): MIN: MAX: GAUGE? YES NO BULLY PARTICLE DENSITY (LB/FT <sup>2</sup> ): MIN: MAX  POLLUTANT LOADING RATE: LB/HR GR/FT <sup>2</sup> OUTLET TEMPERATURE (°F): MIN: MAX  INLET AIR FLOW RATE (ACFM): FILTER OPERATING TEMP (°F):  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT: LENGTH OF BAG (IN); 100.5  NO. OF CARTRIDGES: FILTER SURFACE AREA PER CARTRIDGE (FT <sup>2</sup> ): DIAMETER OF BAG (IN); 100.5  TOTAL FILTER SURFACE AREA (FT <sup>2</sup> ): MIN COLOTH RATIO:  DEACHT TYPE: INDUCEDINAGATIVE FORCED/POSITIVE FILTER MATERIAL: WOVEN FELTED  DESCRIBE CLEANING PROCEDURES:  AIR PULSE SONIC (MIGROINS) OF TOTAL  REVERSE FLOW SIMPLE BAG COLLAPSE (MIGROINS) OF TOTAL  REVERSE FLOW SIMPLE BAG COLLAPSE  OF TOTAL FILTER  DESCRIBE INCOMING AIR STREAM:  DUIST (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	CONTROL DÉVICE EFFICIENCY:			%		%	<del></del> %		У <sub>0</sub>	
TOTAL AFTER CONTROL EMISSION RATE (LB/HR):  2,00E-03  2,30E-03  2,30E-03  2,30E-03  2,30E-03  PRESSURE DROP (IN H <sub>2</sub> 0): MIN: MAX: GAUGE? YES	CORRESPONDING OVERALL EFFICIENC		99.97 %	99.92	%	%		%		
PRESSURE DROP (IN H <sub>2</sub> 0): MIN: MAX: GAUGE? YES NO  BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ): INLET TEMPERATURE (°F): MIN MAX  POLLUTANT LOADING RATE: LBAHR GRIFT <sup>3</sup> OUTLET TEMPERATURE (°F): MIN MAX  INLET AIR FLOW RATE (ACFM): FILTER OPERATING TEMP (°F):  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT: LENGTH OF BAG (IN): 100.5  NO. OF CARTRIDGES: FILTER SURFACE AREA PER CARTRIDGE (FT <sup>3</sup> ): DIAMETER OF BAG (IN): 5.75  TOTAL FILTER SURFACE AREA (FT <sup>3</sup> ): JAR TO CLOTH RATIO:  DRAFT TYPE: INDUCEDINEGATIVE FORCED/POSITIVE FILTER MATERIAL: WOVEN FILTED  DESCRIBE CLEANING PROCEDURES: PARTICLE SIZE DISTRIBUTION  GREVERSE FLOW SIMPLE BAG COLLAPSE (MIGRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE (MIGRONS) OF TOTAL %  DESCRIBE INCOMING AIR STREAM: 10.25  DUIL (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	EFFICIENCY DETERMINATION CODE:						_			
BULK PARTICLE DENSITY (LB/FT*): INLET TEMPERATURE (°F): MIN MAX  POLLUTANT LOADING RATE: LBMR GRUFT* OUTLET TEMPERATURE (°F): MIN MAX  INLET AIR FLOW RATE (ACFM): FILTER OPERATING TEMP (°F): FILTER SURFACE AREA (FT*): DIAMETER OF BAG (IN.): 100.5  NO. OF CARTRIDGES: FILTER SURFACE AREA (FT*): DIAMETER OF BAG (IN.): 6.75  TOTAL FILTER SURFACE AREA (FT*): AIR TO CLOTH RATIC: WOVEN FILTED  DESCRIBE CLEANING PROCEDURES: FRATECE SONIC SUZE WEIGHT % CUMULATIVE MINERAL (MICRONS) OF TOTAL %  AIR PULSE SONIC SUZE WEIGHT % CUMULATIVE (MICRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE (MICRONS) OF TOTAL %  DESCRIBE INCOMING AIR STREAM: 10.25  DUST (particulate emissions) exhaust from conveyors, bins, and crushere inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	TOTAL AFTER CONTROL EMISSION RAT	E (LB/HR):		2,00E-03	2.30E-03					
POLLUTANT LOADING RATE:		MAX:	GAUGE?	YES	□ NO					
INLET AIR FLOW RATE (ACFM): FILTER OPERATING TEMP (**):  NO. OF COMPARTMENTS: NO. OF BAGS PER COMPARTMENT: LENGTH OF BAG (IN.): 100.5  NO. OF CARTRIDGES: FILTER SURFACE AREA PER CARTRIDGE (Ft**): DIAMETER OF BAG (IN.): 5.75  TOTAL FILTER SURFACE AREA (Ft**): AIR TO CLOTH RATIC:  DRAFT TYPE: INDUCEDNEGATIVE FORCED/POSITIVE FILTER MATERIAL: WOVEN FELTED  DESCRIBE CLEANING PROCEDURES: PARTICLE SIZE DISTRIBUTION  AIR PULSE SONIC SIZE WEIGHT % CUMULATIVE (MICRONS) OF TOTAL 1. %  MECHANICAL/SHAKER RING BAG COLLAPSE 1.10 1.0  DESCRIBE INCOMING AIR STREAM: 10.25  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):				INLET TEMPERA	TURE (°F):	MIN	MAX			
NO. OF COMPARTMENTS:  NO. OF BAGS PER COMPARTMENT:  NO. OF CARTRIDGES:  FILTER SURFACE AREA PER CARTRIDGE (FT³):  DIAMETER OF BAG (IN.): 100.5  TOTAL FILTER SURFACE AREA (FT²):  DRAFT TYPE:  INDUCED/NEGATIVE  FORCED/POSITIVE  FILTER MATERIAL:  WOVEN  FATICLE SIZE DISTRIBUTION  SIZE  WEIGHT %  CUMULATIVE  (MICRONS)  OF TOTAL %  DESCRIBE CLEANING PROCEDURES:  SONIC  REVERSE FLOW  SIMPLE BAG COLLAPSE  MECHANICAL/SHAKER  RING BAG COLLAPSE  O-1  OTHER:  DESCRIBE INCOMING AIR STREAM:  DUST (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	POLLUTANT LOADING RATE:	LB/HR	∐ GR/FT*	OUTLET TEMPE	RATURE (°F)	MIN	MAX			
NO. OF CARTRIDGES:    FILTER SURFACE AREA (FT <sup>2</sup> ):   AIR TO CLOTH RATIO:   DRAFT TYPE:   INDUCED/NEGATIVE   FORCED/POSITIVE   FILTER MATERIAL:   WOVEN   FELTED   DESCRIBE CLEANING PROCEDURES:   PARTICLE SIZE DISTRIBUTION     AIR PULSE	INLET AIR FLOW RATE (ACFM):			FILTER OPERAT	ING TEMP (°F	);				
TOTAL FILTER SURFACE AREA (FT <sup>2</sup> ): AIR TO CLOTH RATIO:  DRAFT TYPE: INDUCED/NEGATIVE FORCED/POSITIVE FILTER MATERIAL: WOVEN FELTED  DESCRIBE CLEANING PROCEDURES: PARTICLE SIZE DISTRIBUTION  AIR PULSE SONIC SIZE WEIGHT % CUMULATIVE (MICRONS) OF TOTAL %  REVERSE FLOW SIMPLE BAG COLLAPSE (MICRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE 1-10  DESCRIBE INCOMING AIR STREAM: 10-25  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building. 25-50  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	NO. OF COMPARTMENTS:	NO. OF BAGS	PER COMPARTMEN	IT:		LENGTH OF E	BAG (IN.):	100.5		
DRAFT TYPE: INDUCED/NEGATIVE FORCED/POSITIVE FILTER MATERIAL: WOVEN FELTED  DESCRIBE CLEANING PROCEDURES:  AIR PULSE SONIC SIZE WEIGHT % CUMULATIVE REVERSE FLOW SIMPLE BAG COLLAPSE (MIGRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE 1-10  DESCRIBE INCOMING AIR STREAM: 10-25  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(8):	NO. OF CARTRIDGES:	FILTER SURFA	ACE AREA PER CAR	TRIDGE (FT <sup>2</sup> ):		DIAMETER O	F BAG (IN	.): 5.75		
DESCRIBE CLEANING PROCEDURES:  AIR PULSE SONIC SIZE WEIGHT % CUMULATIVE (MIGRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE OTHER: OTHER: DESCRIBE INCOMING AIR STREAM:  Dust (particulate amissions) exhaust from conveyors, bins, and crushera inside of the building.  DIATE (PARTICULATE A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):			AIR TO CLOTH RA	TIO:						
AIR PULSE SONIC SIZE WEIGHT % CUMULATIVE (MICRONS) OF TOTAL %    REVERSE FLOW   SIMPLE BAG COLLAPSE (MICRONS) OF TOTAL %    MECHANICAL/SHAKER   RING BAG COLLAPSE   0-1   1-10	··	ATIVE	FORCED/POSITIVE	E	FILTER MA	TERIAL:	THE PARTY			
REVERSE FLOW SIMPLE BAG COLLAPSE (MICRONS) OF TOTAL %  MECHANICAL/SHAKER RING BAG COLLAPSE 0-1 1-10 1-10 1-10 1-10 1-10 1-10 1-10							PARTE	CLE SIZE DISTR	RESTION	
MECHANICAL/SHAKER RING BAG COLLAPSE OTHER:  DESCRIBE INCOMING AIR STREAM:  Dust (particulate amissions) exhaust from conveyors, bins, and crushers inside of the building.  Dust (particulate amissions) exhaust from conveyors, bins, and crushers inside of the building.  50-100  50-100  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	☑ AIR PULSE		SONIC			SIZE	V	VEIGHT %	CUMI	JLATIVE
DESCRIBE INCOMING AIR STREAM:  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  50-100  >100  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	REVERSE FLOW		SIMPLE BAG COLL	_APSE		(MICRONS	9 (	OF TOTAL .		%
DESCRIBE INCOMING AIR STREAM:  Dust (particulate emissions) exhaust from conveyors, bins, and crushers inside of the building.  25-50  50-100  >10.0  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	☐ MECHANICAL/SHAKER		RING BAG COLLAR	PSE		0-1				
Dust (particulate smissions) exhaust from conveyors, bins, and crushers inside of the building.  25-50  50-100  >100  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):						1-10				
50-100  TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	DESCRIBE INCOMING AIR STREAM:					10-25				
NA SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):	Dust (particulate emissions) exhaust from co	onveyors, bins, a	and crushers inside o	f the building.		25-50				
TOTAL = 100  ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):						50-100				
ON A SEPARATE PAGE, ATTACH A DIAGRAM SHOWING THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):						>100				
								707	TAL = 100	
COMMENTS:		RAM SHOWING	THE RELATIONSHI	P OF THE CONTR	OL DEVICE TO	O ITS EMISSIC	N SOURC	E(8):		
	CONTROL 15.									

REVISED 09/22/16	NCDEQ/D	ivision of Air Quality	- Application for a	Air Permit to	Construct/C	perate			C1
CONTROL BENJOE D NO CORA									
CONTROL DEVICE ID NO: CDB18	D E 1 0	CONTROLS EMISS			SOURCE		•		
EMISSION POINT (STACK) ID NO(S): E  OPERATING SCE	P 518	POSITION IN SERI	ES OF CONTROLS	S N/A		NO.	OF	UNITS	N/A
			DE CENTRO	wata wasa a	- 044000				
1 OF DESCRIBE CONTROL SYSTEM:	_1		P.E. SEAL REQU	IKED (PER 2	q .u112)7	✓ YES		□ NO	
Induced draft fan pulls PM emissions from all i baghouse.	emission sou	irces specified above t	o beghouse (CD81	6). All emissio	ons sources	are totally end	llosed in du	ctwork that dir	ects air flow to the
POLLUTANTS COLLECTED:			PM(includes PM1	0 and TSP)					
BEFORE CONTROL EMISSION RATE (LB/HI	R):		1257,32		_				
CAPTURE EFFICIENCY:			<u>"</u> "		_%	%		<u></u> %	
CONTROL DEVICE EFFICIENCY:			<u></u> %		<u>"</u>	<u></u> %	N	%	
CORRESPONDING OVERALL EFFICIENCY:			99.92 %		<u> </u>	%		%	
EFFICIENCY DETERMINATION CODE:								-drawn	
TOTAL AFTER CONTROL EMISSION RATE	(LB/HR):		1.01						
PRESSURE DROP (IN H <sub>2</sub> 0): MIN: N	лАХ:	GAUGE?	YES	☐ No					
BULK PARTICLE DENSITY (LB/FT <sup>3</sup> ):			INLET TEMPERA	ATURE (°F):	MIN	MAX			
POLLUTANT LOADING RATE:	L8/HR	☐ GR/FT <sup>3</sup>	OUTLET TEMPE	RATURE (°F)	MIN	MAX			
INLET AIR FLOW RATE (ACFM):			FILTER OPERAT	ING TEMP (1	;				
NO. OF COMPARTMENTS: N	O. OF BAGS	PER COMPARTMEN	T:		LENGTH C	F BAG (IN.):	100.5		
	ILTER SURF	ACE AREA PER CAR			DIAMETER	OF BAG (IN	): 5.75		
TOTAL FILTER SURFACE AREA (FT²):		AIR TO CLOTH RA							
DRAFT TYPE:   INDUCEO/NEGATI	IVE L	FORCED/POSITIVE	<u> </u>	FILTER MA	ATERIAL:	□ wov		FELTED	
DESCRIBE CLEANING PROCEDURES:								DISTRIBUTIO	
✓ AIR PULSE	_	SONIC			SIZI		VEIGHT %	0	UMULATIVE
REVERSE FLOW	<u></u>	SIMPLE 8AG COLL			(MICRO	ONS)	OF TOTAL	_	<u>%</u>
MECHANICAL/SHAKER		RING BAG COLLAR	PSE.		0-1				
DESCRIBE INCOMING AIR STREAM:					1-10			_	
DESCRIBE INCOMING AIR STREAM.					10-2				
Dust (Particular matter) and combustion emiss	sions exhaus	t from the dryer			25-5			_	
					50-16				
					>10	0			
								TOTAL = 1	00
ON A SEPARATE PAGE, ATTACH A DIAGRA COMMENTS:	AM SHOWIN	G THE RELATIONSH)	P OF THE CONTR	OL DEVICE T	O ITS EMIS	SION SOURC	E(S):		-
		A44	listanal Chart						

REVISED 09/22/16	NCDEQ/D	ivision of Air Quality	- Application for A		-	erate			C1
CONTRAL DEVICE ID HA. CREAS		CONTROL O CENTO	HONE EDOLUMEN	OH EMPONON :	60HD0=40	NOVEL COS	D849		
CONTROL DEVICE ID NO: CDB19	EP \$19	CONTROLS EMISS			SOURCE ID	- ' / -		LIMITO	NIA.
EMISSION POINT (STACK) ID NO(S): OPERATING SO		POSITION IN SERI	ES OF CONTROLS	i N/A		NO.	OF	UNITS	N/A
The second secon			DE SEN DEOL	IDED IDED 20	044212	✓ YES		П мо	
1OF_ DESCRIBE CONTROL SYSTEM:	1		P.E. SEAL REQU	INCO (FER 24	Julizjr	<u>N</u> 150		NO	
Induced draft fan pulls PM emissions from al the baghouse.	II emission sau	irces specified abové t	o baghouse (CD81	9), All emissior	is sources a	re totally end	losed in du	ctwork that dir	ects air flow to
POLLUTANTS COLLECTED:			TS₽	PM10				_	
BEFORE CONTROL EMISSION RATE (LB/I	HR):		2630,67	1244.24				_	
CAPTURE EFFICIENCY:			%		% 	%	<del>, ,</del>	<del></del> %	
CONTROL DEVICE EFFICIENCY:			%		%	%		<del></del> %	
CORRESPONDING OVERALL EFFICIENCY	Y:	99.97 %	99.92	%	%		%		
EFFICIENCY DETERMINATION CODE:					_			<del></del>	
TOTAL AFTER CONTROL EMISSION RATE	E (LB/HR):		0.77	1.00					
PRESSURE DROP (IN H₂0): MIN:	MAX:	GAUGE?	YES	□ NO					
BULK PARTICLE DENSITY (LB/FT <sup>2</sup> ):			INLET TEMPERA	TURE (°F):	MIN	MAX			
POLLUTANT LOADING RATE:	_ LB/HR	☐ GR/FT <sup>3</sup>	OUTLET TEMPE	RATURE (°F)	MIN	MAX			
INLET AIR FLOW RATE (ACFM):			FILTER OPERAT	ING TEMP (°F	):				
		PER COMPARTMEN			LENGTH OF	BAG (IN.):	100.5		
	FILTER SURF	ACE AREA PER CAR	TRIDGE (FT <sup>2</sup> ):		DIAMETER	OF BAG (IN.	.): 5.75		
TOTAL FILTER SURFACE AREA (FT2):		AIR TO CLOTH RA							
DRAFT TYPÉ: ✓ INDUCED/NEGA	TIVE L	FORCED/POSITIVI	E	FILTER MA	TERIAL:	□ wov		FELTED	
DESCRIBE CLEANING PROCEDURES:						1		DISTRIBUTIO	
✓ AJR PULSE		SONIC			SIZE		VEIGHT %	Ct	IMULATIVE
REVERSE FLOW		SIMPLE BAG COLL	_APSE		(MICROI	NS) (	OF TOTAL		9%
MECHANICAL/SHAKER	-	RING BAG COLLA	PSE		0-1				
OTHER:					1-10				
DESCRIBE INCOMING AIR STREAM:					10-25				
Dust (Particular matter) emissione exhaust	from the mixer				25-50				
					50-10				
					>100				
								TOTAL = 10	0
ON A SEPARATE PAGE, ATTACH A DIAGI	RAM SHOW!N	IG THE RELATIONSHI	P OF THE CONTR	OL DEVICE TO	TS EMISS	ION SOURC	E(\$):		
COMMENTS:									

NCDEQ/D		·		•	erate				C1
	ACTUAL A FILIPA	iona Francisco	I EMPONON	COLIDOE ID	Horas For	DAA FOOD			
ED \$30				SOURCE ID		_		ATEA	
	POSITION IN SERI	ES OF CONTROLS	N/A		NO.	UF_	UNITS	IVA	
		DE SEN PEOU	IDED /DED 26	n112\2	[7] VES		Пио		
		F.C. BEACKEGO	INED (PER 20	1.0112):	<u> </u>				
m all emission sou	rces specified above to	o baghouse (CDB20	)). All emissio	ns sources a	re totally end	alosed in duct	work that dir	ects air f	iow to
		PM(includes PM1)	D and TSP)				_		
LB/HR):		2668,32				-	_		
		%			%		_%		
		%			<del></del> %		_%		
NÇY:		99,92 %		%	%		<u></u> %		
			·				-		
ATE (LB/HR):	_	2.13							
MAX:	GAUGE?	YES	□ NO						
		INLET TEMPERA	TURE (°F):	MIN	MAX				
LB/HR	☐ GR/FT*	OUTLET TEMPER	RATURE (°F)	MIN	MAX				
		4	ING TEMP (°F	;					
NO. OF BAGS	PER COMPARTMEN	T:		LENGTH OF	BAG (IN.):	100.5			
	ACE AREA PER CAR	TRIDGE (FT <sup>2</sup> ):		DIAMETER	OF BAG (IN	.): 5.75			
					prom)				
	J FORCED/POSITIVE		FILTER MA	TERIAL:			1212		
_					T				
							CI		VE
<u>_</u>	SIMPLÉ BAG CÖLL	.APSE		(MICROI	<b>1</b> S)	OF TOTAL	-	%	
1_	RING BAG COLLA	PSE		0-1					
				1-10			1		
				10-25					
emissions exhaus	it from the kiln and feed	d elevator.		25-50					
				50-100	0				
				>100					
							TOTAL = 10	0	
AGRAM SHOWIN	IG THE RELATIONSHI	P OF THE CONTRI	OL DEVICE T	O ITS EMISS	ION SOUR	CE(S):			
	EP \$20  SCENARIO:  IF1  In all emission sol.  LB/HR):  MAX:  LB/HR  NO. OF BAGS  FILTER SURF	NCDEQ/Division of Air Quality  CONTROLS EMISS  EP S20 POSITION IN SERII  SCENARIO:  IF1  In all emission sources specified above to  ATE (LB/HR):  MAX: GAUGE?  LB/HR	NCDEQ/Division of Air Quality - Application for A  CONTROLS EMISSIONS FROM WHICE  EP S20 POSITION IN SERIES OF CONTROLS  SCENARIO:  F _ 1 P.E. SEAL REQUI  Mail emission sources specified above to baghouse (CDB20  PM(includes PM11  2668.32 %	NCDEQ/Division of Air Quality - Application for Air Permit to CONTROLS EMISSIONS FROM WHICH EMISSION EP \$20 POSITION IN SERIES OF CONTROLS N/A I SCENARIO:  F _ 1 P.E. SEAL REQUIRED (PER 2c) In all emission sources specified above to baghouse (CDB20). All emission  PM(includes PM10 and TSP)  2668.32	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID  EP S20 POSITION IN SERIES OF CONTROLS N/A  ISGENARIO:  F_1_ P.E. SEAL REQUIRED (PER 2q. 0.112)?  PM(includes PM10 and TSP)  PM(includes PM10 and TSP)  PM(includes PM10 and TSP)  2668.32  94 %  NCY: 99.92 % %  NCY: 99.92 % %  INCY: 99.92 % %  INCY: 99.92 % IND  INLET TEMPERATURE (°F): MIN  IND OF BAGS PER COMPARTMENT:  FILTER SURFACE AREA PER CARTRIDGE (FT²): DIAMETER  AIR TO CLOTH RATIO:  GATIVE FORCED/POSITIVE FILTER MATERIAL:  SONIC SIZE  SIMPLE BAG COLLAPSE (MISCO)  RING BAG COLLAPSE (MISCO)  10.025  emissions exhaust from the kiln and feed elevator.	NCDEQUIVISION of Air Quality - Application for Air Permit to Construct/Operate  CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S): ESC EP 520 POSITION IN SERIES OF CONTROLS N/A NO.  ISCENARIO:  P.E. SEAL REQUIRED (PER 2q. 0.112)?  P.E. SEAL REQUIRED (PER 2q. 0.112)?  P.E. SEAL REQUIRED (PER 2q. 0.112)?  PM(Includes PM10 and TSP)  PM(Includes PM10 and TSP)  2668.32  PM	NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate  CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S): ESCPA6, ESCPI6  EP 520 POSITION IN SERIES OF CONTROLS N/A NO. OF  ISCENARIO:  IF _ 1	NCDECIDIVISION of Air Quality - Application for Air Permit to Construct/Operate  CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S): ESCPA6, ESCPK3  EP S20 POSITION IN SERIES OF CONTROLS N/A NO. OF UNITS  ISCENARIO:  IF _ 1	NCDEQUIVISION of Air Quality - Application for Air Permit to Construct/Operate  CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NOIS): ESCPAG, ESCPKS  EP \$20 POSITION IN SERIES OF CONTROLS N/A NO. OF UNITS N/A  ISCENARIO:  IF _ 1

## FORM D1

#### **FACILITY-WIDE EMISSIONS SUMMARY**

TYTIC GEEGITAL	EMIGOIONO IN	URMATIC	N - FACILITY-WIDE			
	(AFTER CONT	NS ROLS /	(BEFORE CONTR	ROLS /	(AFTER C	. EMISSIONS ONTROLS / ATIONS)
	tons/yr		tons/yr		tor	is/yr
			147,201		21	8.7
	1		128,300		14	3.9
			128 300		14	3.9
			125,000			
			1			-
F. 4		10				_
JS AIR POLLUTA	NT EMISSIONS IN	FORMAT	ION - FACILITY-WI	DE		- 11
	EMISSIO (AFTER CONT	NS ROLS /	(BEFORE CONTR	ROLS /	(AFTER C	. EMISSIONS ONTROLS / ATIONS)
CAS NO.	tons/yr		tons/yr		tons/yr	
			1			
	-	_				
	-					
-			+			
			+			
AIR POLLUTANT	EMISSIONS INFO	RMATION	- FACILITY-WIDE			11 -
			VE THE TOXIC PERM		·	R) IN 15A NO
CAS NO.	lb/hr	lb/day	lb/year			<del>                                     </del>
	a pickups to existing					
	-					-
	+		+			
	+		+			-
			1 1			
-						
					1	
		47				
	AIR POLLUTANT ER CONTROLS / LIT LING. USE NETTING	EMISSION (AFTER CONTI- LIMITATIO tons/yr  LIMITATIO TONS/Yr  EXPECTED A EMISSIONS IN EXPECTED A EMISSION (AFTER CONTI- LIMITATIO CAS NO. tons/yr  AIR POLLUTANT EMISSIONS INFO EX CONTROLS / LIMITATIONS. EMISS LING. USE NETTING FORM D2 IF NEC!  CAS NO. Ib/hr	EMISSIONS (AFTER CONTROLS / LIMITATIONS)  tons/yr  LIMITATIONS INFORMAT  EXPECTED ACTUAL EMISSIONS (AFTER CONTROLS / LIMITATIONS)  CAS NO. tons/yr  AIR POLLUTANT EMISSIONS INFORMATION  CAS NO. tons/yr  AIR POLLUTANT EMISSIONS INFORMATION  EXPECTED ACTUAL EMISSIONS (AFTER CONTROLS / LIMITATIONS)  CAS NO. tons/yr  AIR POLLUTANT EMISSIONS INFORMATION  EXPECTED ACTUAL EMISSIONS (AFTER CONTROLS / LIMITATIONS)  CAS NO. tons/yr	EMISSIONS (AFTER CONTROLS / LIMITATIONS)  tons/yr  tons/yr  tons/yr  tons/yr  tons/yr  147,201  128,300  128,300  128,300  128,300  CAS NO.  tons/yr  tons/yr  tons/yr  EXPECTED ACTUAL EMISSIONS (AFTER CONTROLS / LIMITATIONS)  CAS NO.  tons/yr  tons/yr  tons/yr  AR POLLUTANT EMISSIONS INFORMATION - FACILITY-WIDE  EXPECTED ACTUAL EMISSIONS (AFTER CONTROLS / LIMITATIONS)  tons/yr  tons/yr  ARR POLLUTANT EMISSIONS INFORMATION - FACILITY-WIDE  ER CONTROLS / LIMITATIONS. EMISSIONS ABOVE THE TOXIC PERMILING. USE NETTING FORM D2 IF NECESSARY.	EMISSIONS (AFTER CONTROLS / LIMITATIONS)  tons/yr  tons/yr  147,201  128,300  128,30	EMISSIONS (AFTER CONTROLS / LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS LIMITATIONS LIMITATIONS LIMITATIONS LIMITATIONS LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS) LIMITATIONS

### FORM D4

#### **EXEMPT AND INSIGNIFICANT ACTIVITIES SUMMARY**

D4 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate **REVISED 09/22/16** ACTIVITIES EXEMPTED PER 2Q .0102 OR INSIGNIFICANT ACTIVITIES PER 2Q .0503 FOR TITLE V SOURCES SIZE OR **PRODUCTION** BASIS FOR EXEMPTION OR **DESCRIPTION OF EMISSION SOURCE** RATE INSIGNIFICANT ACTIVITY 1. Elevator 12 15A NCAC 02Q.0503(8) 50 tpy 2. 3. 5. 6. 7. 9. 10.

Attach Additional Sheets As Necessary

#### FORM D5

### TECHNICAL ANALYSIS TO SUPPORT PERMIT APPLICATION

E,	VISED 09/22/16	NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate	סט
		IDE DETAILED TECHNICAL CALCULATIONS TO SUPPORT ALL EMISSION, CONTROL, AND REGULATORY	
	DEMONS	STRATIONS MADE IN THIS APPLICATION. INCLUDE A COMPREHENSIVE PROCESS FLOW DIAGRAM AS NECESSARY TO SUPPORT AND CLARIFY CALCULATIONS AND ASSUMPTIONS. ADDRESS THE	70
		FOLLOWING SPECIFIC ISSUES ON SEPARATE PAGES:	
4	FACTORS, MATERIAL INCLUDE CALCULATI	S SOURCE (EMISSION INFORMATION) (FORM B and B1 through B9) - SHOW CALCULATIONS USED, INCLUDING EMISSIOI L BALANCES, AND/OR OTHER METHODS FROM WHICH THE POLLUTANT EMISSION RATES IN THIS APPLICATION WERE I ION OF POTENTIAL BEFORE AND, WHERE APPLICABLE, AFTER CONTROLS. CLEARLY STATE ANY ASSUMPTIONS MADE RENCES AS NEEDED TO SUPPORT MATERIAL BALANCE CALCULATIONS.	DERIVED.
3	TO INDIVIDUAL SOUP REQUIREMENTS) FO PROCESS RATES OF (PREVENTION OF SIG HAZARDOUS AIR POI APPLICABLE TO THIS	SOURCE (REGULATORY INFORMATION)(FORM E2 - TITLE V ONLY) - PROVIDE AN ANALYSIS OF ANY REGULATIONS APPRICES AND THE FACILITY AS A WHOLE. INCLUDE A DISCUSSION OUTING METHODS (e.g. FOR TESTING AND/OR MONITO OR COMPLYING WITH APPLICABLE REGULATIONS, PARTICULARLY THOSE REGULATIONS LIMITING EMISSIONS BASED OF ROTHER OPERATIONAL PARAMETERS. PROVIDE JUSTIFICATION FOR AVOIDANCE OF ANY FEDERAL REGULATIONS GNIFICANT DETERIORATION (PSD), NEW SOURCE PERFORMANCE STANDARDS (NSPS), NATIONAL EMISSION STANDAR ILLUTANTS (NESHAPS), TITLE V), INCLUDING EXEMPTIONS FROM THE FEDERAL REGULATIONS WHICH WOULD OTHERV S FACILITY. SUBMIT ANY REQUIRED INFORMATION TO DOCUMENT COMPLIANCE WITH ANY REGULATIONS. INCLUDE ED IN ITEM "A" ABOVE, DATES OF MANUFACTURE, CONTROL EQUIPMENT, ETC. TO SUPPORT THESE CALCULATIONS.	PRING DN DS FOR VISE BE
;	CONTROL EFFICIENC PERTINENT OPERAT THIS APPLICATION) ( POTENTIAL FOR THE	NALYSIS (FORM C and C1 through C9) - PROVIDE A TECHNICAL EVALUATION WITH SUPPORTING REFERENCES FOR AN CIES LISTED ON SECTION C FORMS, OR USED TO REDUCE EMISSION RATES IN CALCULATIONS UNDER ITEM "A" ABOVE TING PARAMETERS (e.g. OPERATING CONDITIONS, MANUFACTURING RECOMMENDATIONS, AND PARAMETERS AS APPLICAL TO ENSURING PROPER PERFORMANCE OF THE CONTROL DEVICES). INCLUDE AND LIMITATIONS OR MALFULE PARTICULAR CONTROL DEVICES AS EMPLOYED AT THIS FACILITY. DETAIL PROCEDURES FOR ASSURING PROPER OF EVICE INCLUDING MONITORING SYSTEMS AND MAINTENANCE TO BE PERFORMED.	E. INCLUDE LIED FOR IN NOTION
,	PROCESS, OPERATION ANALYSIS IN ITEM "B	RATIONAL COMPLIANCE ANALYSIS - (FORM E3 - TITLE V ONLY) - SHOWING HOW COMPLIANCE WILL BE ACHIEVED WH IONAL, OR OTHER DATA TO DEMONSTRATE COMPLIANCE. REFER TO COMPLIANCE REQUIREMENTS IN THE REGULATO 3" WHERE APPROPRIATE. LIST ANY CONDITIONS OR PARAMETERS THAT CAN BE MONITORED AND REPORTED TO MPLIANCE WITH THE APPLICABLE REGULATIONS.	
•	1	GINEERING SEAL - PURSUANT TO 15A NCAC 2Q .0112 "APPLICATION REQUIRING A PROFESSIONAL ENGINEERING ENGINEER REGISTERED IN NORTH CAROLINA SHALL BE REQUIRED TO SEAL TECHNICAL PORTIONS OF THIS APPLICATION MODIFICATIONS OF EXISTING SOURCES. (SEE INSTRUCTIONS FOR FURTHER APPLICABILITY).	
	I, <u>Kathryn Swor</u>	attest that this application for 3M Pittsboro	
	proposed design has to other professionals, in- design. Note: In acco	has been reviewed by me and is accurate, complete and consistent with the information supplied ans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge been prepared in accordance with the applicable regulations. Although certain portions of this submittal package may have been declusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the propordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, represented collication shall be guilty of a Class 2 misdemeanor which the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the supplied of the proportion of the proportion of the supplied of the proportion of the supplied of the proportion of the proportion of the supplied of the proportion of the p	eveloped by posed ion, or
	(PLEASE USE BLUE	INK TO COMPLETE THE FOLLOWING)  Air Permits Section	E
	NAME:	Kathryn Swor	
	DATE:	May 3, 2022	
	COMPANY:	Stantec 2080 Wooddale Drive, Suite 100	
	ADDRESS:	Woodbury, MN 55125	
	TELEPHONE:	651-395-5227 = SEAL F: = 10.053800 = 575/20	
	SIGNATURE:	651-395-5227  Form C1, as identified at the top of each  SEAL  1053608  573/20	
	PAGES CERTIFIED:	form C1, as identified at the top of each form.	
	(ID	DENTIFY ABOVE EACH PERMIT FORM AND ATTACHMENT THAT IS BEING CERTIFIED BY THIS SEAL)	

### TITLE V GENERAL INFORMATION

THIS FORM AND ALL OTHI Indicate here if your facility is subject to Title V by: If subject to Title V by "OTHER", specify why: If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:		EZ THROUGH E5 AS APPLICAE	
THIS FORM AND ALL OTHI Indicate here if your facility is subject to Title V by: If subject to Title V by "OTHER", specify why:  If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:	ER REQUIRED "E" FORMS (	E2 THROUGH E5 AS APPLICAE	
Indicate here if your facility is subject to Title V by:  If subject to Title V by "OTHER", specify why:  If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:	☑ EMISSIONS		
If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:	☐ NSPS		
If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:	14010	☐ NESHAP (MACT)	☐ TITLE IV
If you are or will be subject to any maximum achievable control technolog 112(d) of the Clean Air Act, specify below:	OTHER (specify)	MESICAL (MAST)	
112(d) of the Clean Air Act, specify below:	OTHER (specify)		
	y standards (MACT) issued pursuant to s	ection	
	ISSION SOURCE		
EMISSION SOURCE ID	DESCRIPTION	M	ACT
		-	
<del></del>		_	
<u> </u>			
			-
List any additional regulation which are requested to be included in the st the shield should be granted:	nield and provide a detailed explanation as	to why	
the shield should be granted:  REGULATION EMISSION	nield and provide a detailed explanation as		NATION
the shield should be granted:  REGULATION EMISSION			
the shield should be granted:  REGULATION EMISSION		EXPLA	
he shield should be granted:  REGULATION EMISSION		EXPLA	
he shield should be granted:  REGULATION EMISSION		EXPLA	
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the shield should be granted:  REGULATION EMISSION		EXPLA	

Attach Additional Sheets As Necessary

### **EMISSION SOURCE APPLICABLE REGULATION LISTING**

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

E2

EMISSION SOURCE ID NO.	EMISSION SOURCE DESCRIPTION	OPERATING SCENARIO INDICATE PRIMARY (P) OR ALTERNATIVE (A)		APPLICABLE REGULATION
ES 1	Coal/Wood Boiler	P - Coal	PM	NCAC 2D .0503
		A - Wood	PM	NCAC 2D .0504
E\$3537B	M Screener No. 2	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
E83537C	M Screener No. 3	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES3537G	M Screener No. 4	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES3537H	M Screener No. 5	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES8913D	Undersize Conveyor No. 3 (D Screen No. 1 to Dryer Feed Conveyor No. 7)	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES8913E	C Cin Feed Conveyor No. 4 (D screen No. 1 to C crusher bin)	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES233	C Crusher No. 2B	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES2426.3	C Crusher No. 1 Bypass Chute	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
ES8913G	D Screen Bin No. 1 Loadout Chute	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
E\$2327C	Conveyor No. 6 Metal Diverter Chute	N/A	PM, Visible Emissions	15A NCAC 02D .0510, 15A NCAC 02D .0524 (40 CF Part 60, Subpart OOO), 15A NCAC 02D .0540
IS-30	Elevator 12	N/A	PM, Visible Emissions	15A NCAC 02Q.0503(8)

## EMISSION SOURCE COMPLIANCE METHOD

REVISED 09/22/16	NCDEQ/Division Of	Air Quality - Application for Air Pe	ermit to Construct/Operate	E3
		Regulated Pollutant PM	M (PM10 and TSP)	
Emission Source ID N	O. ES3537B, ES3537C, ES8913D, ES891	3E Applicable Regulation	15A NCAC 2D.0524	
Alternative Operating S	Scenario (AOS) NO: N/A			
		GE TO EXPAND ON ANY OF T	HE BELOW COMMENTS	
		ONITORING REQUIREMENTS		
		CHITOKING KEQUIKEMENTS		
le Compliance	Assurance Monitoring (CAM) 40 CFR Part	64 Applicable?	EL NO	
	Plan Attached (if applicable, CAM plan mus		☑ NO ☑ NO	
_	oring Device Type:	to be attached/1	[5] 14O	
Describe Monito	• • • • • • • • • • • • • • • • • • • •			_
	ng Methods (Describe In Detail):	N/A		_
Other Montagnit	ig Metrious (Describe III Detail).	N/A		_
h -				<del>-</del>
-	· -			<b>—</b>
Describe the fr	equations, and duration of manifesing and b	out the date will be recorded (i.e. eve	and the second of the second o	
	requency and duration of monitoring and he to produce an hourly average):	ow the data will be recorded (i.e., eve	ery 15 minutes, 1 minute instantaneous	
_			WWW.NODO COO	
	nce testing and quarterly Method 22 visible		ant to NSPS OOC.	
Results of the c	observations will be recorded on a log shee	<del>/</del>		_
				_
				_
	REC	CORDKEEPING REQUIREMENT	18	C-1
Data (Paramete	er) being recording:	PM (PM10 & TSP), Visible	Emissions	_
Frequency of re	ecordkeeping (How often is data recorded?	Deviation from permit requ	irements and the results of inspections which	
are completed	per manufacturer's recommendations and	permit requirements.		
Initial and Quar	terly Method 22 inspections.			
				3
	The state of the s	REPORTING REQUIREMENTS		
Generally desc	ribe what is being reported:	Deviation from permit requ	irements in accordance to permit requirements	_
				_
				232
			A = 0	
Frequency:	☐ MONTHLY	QUARTERLY	✓ EVERY 6 MONTHS	
	OTHER (DESCRIBE):			
		TESTING		
Harman Maria				
Specify proposed refer		Completed in compliance v	with 40 CFR 60, Subpart OOO.	_ 1
_ <del>-</del>	method rule and citation:	NSPS 000 - 40 CFR 60.6	575(a)	
Specify testing frequen	ncy:	initial Performance Testing	, then once every 5 years.	
NO	TE - Proposed test method subject	to approval and possible char	nge during the test protocol process	

#### **EMISSION SOURCE COMPLIANCE METHOD**

F3

REVISED 09/22/16		NCDEQ/Division Of	Air Quality - Application for A	ir Permit to Constru	ct/Operate	E3
			Regulated Pollutar	nt PM (PM10 and TS	?)	
Emission Source ID N	IO. ES3537G,	, ES3537H	Applicable Regula	tion 15A NCAC 2D,08	524	
Alternative Operating	Scenario (AO	S) NO: N/A				
	A	TACH A SEPARATE PA	GE TO EXPAND ON ANY C	F THE BELOW C	OMMENTS	
		M	ONITORING REQUIREMEN	ITS		
Is Compliance	Assurance M	onitoring (CAM) 40 CFR Part	64 Applicable?			
		l (if applicable, CAM plan mus _	t be attached)?	✓ NC	)	
Describe Monit						
Describe Monit						<u> </u>
Other Monitorii	ng Methods (L	Describe In Detail):	N/A			
Describe the f	tamianm and	duration of monitoring and ha	ow the data will be recorded (i.e.	Avery 15 minutes 1	minute instantaneous	
		an hourly average):	iw the data will be recorded (i.e.	, every to manates, i	minute material reneous	
_	-		observations will be required po	ursuant to NSPS OO	a.	
		will be recorded on a log shee				_
						_
	W. C.	REC	ORDKEEPING REQUIREM	IENTS		
Data (Paramet	ter) being reco	ording:	PM (PM10 & TSP), Vi	sible Emissions		
Frequency of r	recordkeeping	(How often is data recorded?	): Deviation from permit	requirements and the	results of inspections which	
are completed	per manufact	turer's recommendations and	permit requirements,			• •
Initial and Qua	rterly Method	22 inspections,				
	2.22					
	C		REPORTING REQUIREMEN	Te		
			CEP ON INFO KENDIKEMEN	114		
Generally desc	cribe what is b	peing reported:	Deviation from permit	requirements in acco	rdance to permit requirements	
						20.00
-				- 💛		
						_
						_
Frequency:		MONTHLY	QUARTERLY	V	EVERY 6 MONTHS	
		OTHER (DESCRIBE):				
			TESTING	A STATE OF THE STA		0
Specify proposed refe	ronos test re-	ethod:	Completed in comple	nee with 40 CER 60	Subpart 000	
Specify reference test			Completed in complia NSPS OOO - 40 CFR		Subpart 000.	<del></del>
Specify testing freque		and ottations	Initial Performance Te		v 5 vears	
Specific results reduce	vy.		unial remobiliance re	Journey, when once ever	, o jours.	-
NO.	OTÉ - Propo	sed test method subject	to approval and possible	change during the	test protocol process	

#### **EMISSION SOURCE COMPLIANCE METHOD**

REVISED 09/22/16	NCDEQ/Division Of /	Air Quality - Appli	cation for Air Pern	nit to Construc	t/Operate	E3
		Regul	ated Pollutant PM (	PM10 and TSP	)	
Emission Source ID N	O. ES233	Applic	able Regulation 15	A NCAC 2D.05	24	
Alternative Operating	Scenario (AOS) NO: N/A					
	ATTACH A SEPARATE PAG	SE TO EXPAND	ON ANY OF THE	E BELOW CO	MMENTS	
	MC	ONITORING REC	QUIREMENTS			
				,		
	Assurance Monitoring (CAM) 40 CFR Part 6		YES	. NO		
-	Plan Attached (if applicable, CAM plan must	be attached)?	YES	✓ NO		
	toring Device Type:					<del></del>
	toring Location:					
Other Monitoria	ng Methods (Describe In Detail):	N/A	_		<u> </u>	
			_			
	frequency and duration of monitoring and horn to produce an hourly average):	w the data will be r	ecorded (i.e., every	/ 15 minutes, 1 r	minute instantaneous	
Initial performa	ance testing and quarterly Method 22 visible	observations will b	e required pursuan	t to NSPS 000	<u></u>	
Results of the	observations will be recorded on a log sheet	<u>.</u>				
					_	
-		_				
	PEC	ODDKEEDING	REQUIREMENTS		711-1	e and the second
	REG	OKDICEL ING I	CLOSOFIC INC.			
Data (Paramet	ter) being recording:	PM (PM1	0 & TSP), Visible E	missions		
Frequency of r	recordkeeping (How often is data recorded?)	): Deviation	from permit require	ements and the	results of inspections which	
	per manufacturer's recommendations and p	-				
	arterly Method 22 inspections.					
111101010 900	Topolisto					<del>.</del>
			_			-
	R	EPORTING REC	QUIREMENTS	Vicinia I		
Generally desi	cribe what is being reported:	Deviation	from permit require	ements in accor	dance to permit requirements	3
	=					
Frequency:	MONTHLY	QUART	ERLY	Z	EVERY 6 MONTHS	
	OTHER (DESCRIBE):	TESTI	NG			
Specify proposed refe			ed in compliance wi		Subpart OOO.	
1	t method rule and citation:		OO - 40 CFR 60.67		_	
Specify testing freque	ency:	Initial Per	formance Testing,	then once every	5 years,	-
No.	OTE - Proposed test method subject	to approval and	l possible chang	ge during the	test protocol process	

# Appendix E: CAM Assessment



#### Appendix E: Facility-Wide CAM Applicability Assessment

Compliance Assurance Monitoring (CAM, 40 CFR 64) is generally applicable to permitted major sources under 40 CFR Part 70 ("Part 70", Title V) who use control equipment to comply with emission limits and do not have corresponding continuous compliance determination requirements in the Permit. For an emission unit or process to be subject to CAM for a pollutant, all of the following must be true:

- Pre-control Potential to Emit (PTE) for the emission unit or process ("emission unit") is greater than the Part 70 major source threshold for the pollutant (40 CFR 64.2(a)(3));
- The emission unit is subject to an emission limitation or standard for the pollutant that is not otherwise exempted under CAM (40 CFR 64.2(a)(1));
- The emission unit uses a control device to achieve compliance with the emission limitation or standard (40 CFR 64.2(a)(2)).

An initial screening for CAM applicability at the 3M Pittsboro facility was conducted by reviewing facility-wide PTE calculations (last submitted to the Department as part of the 2020 operating permit renewal) to identify any individual emission units that have pre-controlled PTE greater than major source thresholds for any pollutant regulated under Part 70 (Table E-1). PM<sub>10</sub> is the only Part 70 regulated pollutant where a subset of individual emission units have potential emissions greater than major source thresholds. There are no individual emissions units, or groups of emission units venting to a common control device with PTE greater than Part 70 major source thresholds of any other Part 70 regulated pollutant. Those emission units identified as having pre-controlled PM<sub>10</sub> PTE greater than Part 70 major source thresholds were further reviewed to determine 1) whether the emission unit was subject to a non-exempt CAM limit (40 CFR 64.2(b)), 2) whether the emission unit uses control equipment for compliance with the limit, and 3) whether there is a continuous compliance determination for the limit in the permit.

The Line 1 and 2 Mixers (ESCPM1, ESCPM2), the to-be-constructed Line 3 Mixer (ESCPM3), the Line 1 and 2 Kilns (ESCPK1, ESCPK2), and the to-be-constructed Line 3 Kiln (ESCPK3) each have pre-controlled PTE for PM<sub>10</sub> greater than Part 70 major source thresholds. Each of these emission units are subject to a state regulatory process weight rate (PWR) limit on particulate (15A NCAC 02D.0510), which is listed in the Permit. "Particulate" in this instance is interpreted to include PM<sub>10</sub>. There is no associated continuous compliance determination indicated in the Permit for the PWR limit. Since there is no continuous compliance determination specified in the Permit for the PWR limit, the Line 1 and 2 Mixers, and the Line 1 and 2 Kilns are subject to CAM for PM<sub>10</sub> for the PWR limit. Once constructed, the Line 3 Mixer and Line 3 Kiln will also be subject to CAM for PM<sub>10</sub> for the PWR limit assuming maximum process rate and control configurations do not change from what is currently represented in PTE calculations.

3M Environment, Health, and Safety 3M Center 0224-05-W-03 St. Paul, MN 55144

The Line 1 and 2 Preheaters (ESCPPH1, ESCPPH2), the to-be-constructed Line 3 Preheater (ESCPPH3), and the CNS Dryer (ES 1415) each are subject to an NSPS UUU particulate matter emissions limit. "Particulate matter" in this instance includes PM<sub>10</sub> (40 CFR 60.2). Draft Permit - T09, Condition 2.1.D.2.e.i. requires installation and operation of a COMS for a continuous compliance determination for compliance with the NSPS UUU limit. The Line 1 and 2 Preheaters and the CNS Dryer are exempt from CAM pursuant to 40 CFR 64.2(b)(1)(vi) since a continuous compliance determination method is specified by Draft Permit -T09, Condition 2.1.D.2.e.i for compliance with the NSPS UUU emissions limit. Once constructed, the Line 3 Preheater will not be subject to CAM for PM<sub>10</sub> for the NSPS UUU PM limit assuming maximum process rate and control configurations do not change from what is currently represented in PTE calculations.

CAM applicability was also reviewed on a per-control-device basis, based on North Carolina Department of Environmental Quality guidance. The individual PTEs of multiple units venting to a common control device were summed on a per-control-device basis for comparison to Part 70 major source thresholds (Table E-2). None of the baghouses that vent multiple units have a summed pre-control PM<sub>10</sub> PTE greater than Part 70 major source thresholds. Those baghouses indicated in Table 2 with pre-controlled PM<sub>10</sub> potential to emit greater than major source thresholds each vent a single unit, not multiple units. CAM applicability for 3M Pittsboro does not change when it is reviewed on a per-control-device basis.

Table E-1: CAM Applicability Analysis by Individual Emission Unit/Process

Emission Unit ID	Description	Pre-Controlled PM <sub>10</sub> PTE (tpy) <sup>1</sup>	CAM-Applicable Emission Limit?	Use Control to Comply with Limit?	Continuous Compliance Determination in Permit?	Subject to CAM?
ESCPM1	Line 1 Mixer	5,450	Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)	Yes	No	Yes
ESCPM2	Line 2 Mixer	5,450	Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)	Yes	No	Yes
ESCPM3 (to be constructed)	Line 3 Mixer	5,450	Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)	Yes	No	Yes
ESCPK1	Line 1 Kiln	11,687	Yes – PWR PM limit (Condition 2.1.E of draft Permit -T09)	Yes	No	Yes
ESCPK2	Line 2 Kiln	11,687	Yes PWR PM limit (Condition 2.1.E of draft Permit -T09)	Yes	No	Yes
ESCPK3 (to be constructed)	Line 3 Kiln	11,687	Yes – PWR PM limit (Condition 2.1.E of draft Permit -T09)	Yes	No	Yes
ESCPPH1	Line 1 Preheater	5,507	Yes NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No
ESCPPH2	Line 2 Preheater	5,507	Yes – NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No
ESCPPH3 (to be constructed)	Line 3 Preheater	5,507	Yes – NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No
E\$1415	CNS Dryer	59,995	Yes – NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No

1 Source: "Pittsboro PTE Updated" in 3M internal files, dated 05/04/2022. Facility-wide PTE provided as part of the 2020 Operating Permit Renewal Application.

Table E-2: CAM Applicability for Multiple Units Venting to One Control Device

Baghouse ID	Description	Sum of Pre- Controlled PM <sub>10</sub> PTE by CBD (tpy) <sup>1</sup>	CAM-Applicable Emission Limit?	Continuous Compliance Determination in Permit?	Subject to CAM?	Emission Unit Venting to CAM-Subject CDBs	
CDB1	Crushing BH 1	25.45			No		
CDB2	Screening BH 1	60.74			No		
CDB3	DB3 CNS Dryer BH 59,995		Yes – NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No		
CDB4	Screening BH 2	40.35		EN PARTIES NOW	No		
CDB5	Crushing BH 2	16.77			No		
CDB6	Grade Silo BH	7.35			No		
CDB7	Waste Handling BH	2.36			No		
CDB8	Raw Granule BH	4.34			No		
CDB9	Line 1 Preheater BH	Yes – NSPS UUU limit (Condition 2.1.D.2.e.i of draft F		Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -709)	No		
CD810	Line 2 Preheater BH	5.507 2.1.D.2.e.i of draft Permit		2.1.D.2.e.i of draft Permit	No		
CDB11	Line 1 Mixer BH	5,450	Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)		Yes	Line 1 Mixer (ESCPM1)	
CDB12	Line 2 Mixer BH	5,450	Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)	No	Yes	Line 2 Mixer (ESCPM2)	
CDB13	Line 1 Kiln BH	11,687	Yes – PWR PM limit (Condition 2.1.E of draft Permit -T09)	No	Yes	Line 1 Kiln (ESCPK1)	

Continued on next page

Table E-2: CAM Applicability for Multiple Units Venting to One Control Device (continued)

Baghouse ID	Description	Sum of Pre- Controlled PM <sub>10</sub> PTE by CBD (tpy) <sup>1</sup>	CAM-Applicable Emission Limit?	Continuous Compliance Determination in Permit?	Subject to CAM?	Emission Units Venting to CAM-Subject CDBs Line 2 Kiln (ESCPK2)	
CDB14	Line 2 Kiln BH	11,687	Yes – PWR PM limit (Condition 2.1.E of draft Permit -T09)	No	Yes		
CD815	Finished Granule BH	29.54			No		
CDB16 (to be constructed)	Crushing BH 3	34.70			No		
CDB17 (to be constructed)	Screening BH 3	12.33			No		
CDB18 (to be constructed)	Line 3 Preheater BH	5,507	Yes – NSPS UUU limit (Condition 2.1.D.2.b. of draft Permit -T09)	Yes (COMS, Condition 2.1.D.2.e.i of draft Permit -T09)	No		
CDB19 (to be constructed)	.   Une 3 Mixer BH   5.450		Yes – PWR PM limit (Condition 2.1.F of draft Permit -T09)	NO.			
CDB20 (to be constructed)	Line 3 Kiln BH	11,687	Yes – PWR PM limit (Condition 2.1.E of draft Permit -T09)	No	Yes	Line 3 Kiln (ESCPK3)	

1 Source: "Pittsboro PTE Updated" in 3M internal files, dated 05/04/2022. Facility-wide PTE provided as part of the 2020 Operating Permit Renewal Application.

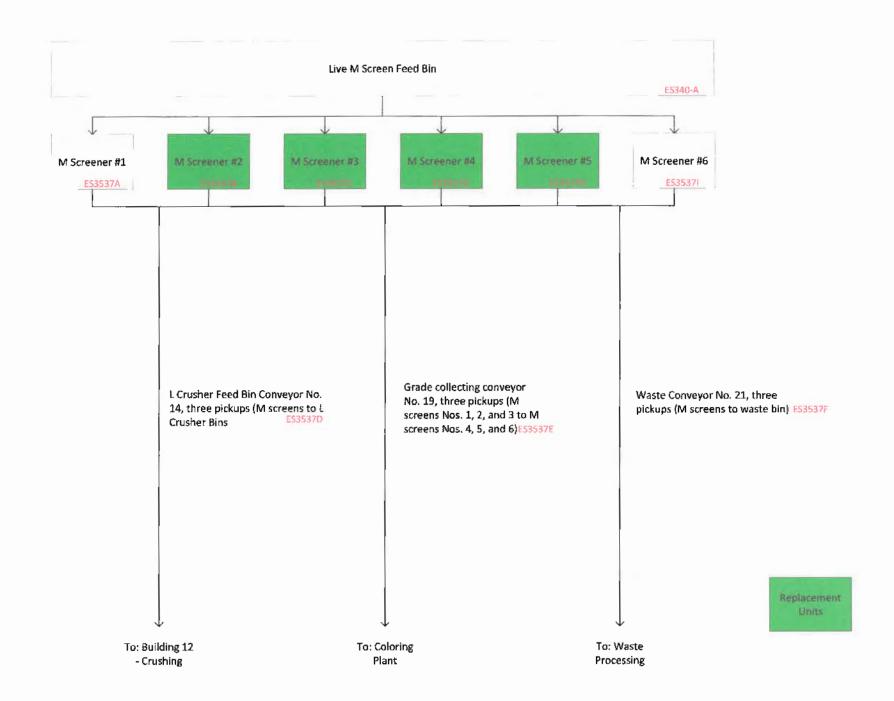
# Appendix F: 21C Application Emission Calculations and Process Flow Diagram

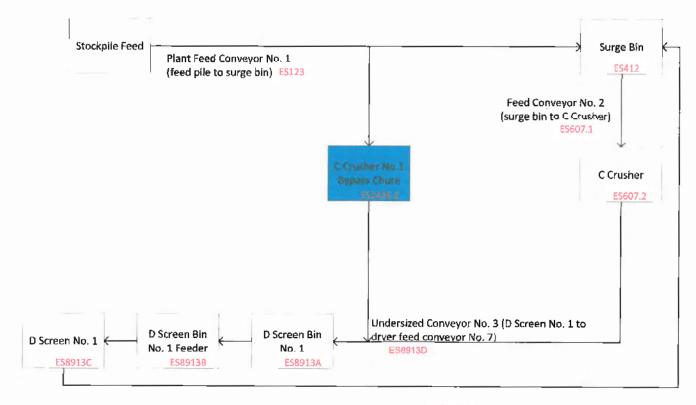
#### Potential Emission Calculations Pittsboro

EU No.	EU or GP Description	CE No.	Poliutant Name	CAS No. (no dashes)	Max Rate units/hr	Max Rate units	Em Factor lb/units	Em Factor units	Ref. No.	Uncontr Poti to Emit (PTE) (lb/hr)	Uncontr Poti to Emit (PTE) (tpy)	Poll Contr Eff (%)	Contr Poti to Emit (PTE) (lb/hr)	Contr Poti to Emit (PTE) (tpy)
ES3537B	M Screener No. 2	CDB2	PM	N/A	753	tons	0.025	ton	1	13.83	82.45	99.97%	5.65E-03	2.47E-02
ES3537B	M Screener No. 2	CDBZ	PM10	N/A	753	tons	0.0087	ton	1	6.55	28.69	99.92%	5.24E-03	2.30E-02
ES3537C	M Screener No. 3	CDBZ	PM	N/A	753	tons	0.025	ton	1	18.83	82.45	99.97%	5.65E-03	2.47E-02
£53537C	M Screener No. 3	CO62	PM10	N/A	753	tons	0.0087	ton	1	6.55	28.69	99.92%	5.24E-03	2.30E-02
£53537G	M Screener No. 4	CDB4	PM	N/A	753	tons	D.025	ton	1	18.83	82.45	99.97%	5.656-03	2.47E-02
E\$3537G	M Screener No. 4	CDB4	PM10	N/A	753	tons	0.0027	ton	1	6.55	28.69	99.92%	5.24E-03	2.3DE-02
E\$3537H	M Screener No. 5	CDB4	PM	N/A	753	tons	0.025	ton	1	18.83	82.45	99.97%	5.65E-03	2.47E-02
E\$3537H	M Screener No. 5	CDB4	PM10	N/A	753	tons	0.0087	ton	1	6.55	28.69	99.92%	5.24E-03	2.30E-02
ES8913D	Undersize conveyor No. 3 (t) screen No. 1 to dryer feed conveyor No. 7)	CDB2	PM	N/A	535	tons	0.0030	ton	2	1.61	7.03	99.97%	4.81 <b>E-0</b> 4	2.11E-03
ES89130	Undersize conveyor No. 3 (Discreen No. 1 to dryer feed conveyor No. 7)	Ć082	PM10	N/A	535	tons	0.0011	ton	2	0.59	2.58	99.92%	4.71E-04	2.06E-03
ES8913E	C bin feed conveyor No. 4 (D screen No. 1 to C crusher bin)	CDB2	PM	N/A	535	tons	0.0030	ton	2	1.61	7.03	99,97%	4.81E-04	2.11E-03
ES8913E		CDB2	PM10	N/A	535	tons	0.0011	ton	2	0.59	2.58	99.92%	4.71E-04	2.06E-D3
Ľ\$233	C Crusher No. 2B	CDB5	PM	N/A	300	tons	0.0054	ton	3	1.62	7.10	99.97%	4.86E-04	2.13E-D3
E5293	C Crusher No. 28	CDB5	PM10	N/A	300	tons	0.0024	ton	3	0.72	3.15	99.92%	5.76E-04	2.52E-03
ES2426.3	C Crusher No. 1 Bypass Chote	CDB1	PM	N/A	535	tons	0.0030	ton	2	1.61	7.03	99.97%	4.81E-04	2.11E-03
ES2426.3	C Crusher No. 1 Bypass Chute	CDB1	PM10	N/A	535	tans	0.0011	ton	2	0.59	2.58	99.92%	4.71€-04	2,055-03
E\$8913G	D Screen Sin No. 1 Loadout Chute	N/A	PM	N/A	360	tons	0.0030	ton	2	1.08	4.73	0.00	1.080	4.73
E\$8913G	D Screen Bin No. 1 Loadout Chute	N/A	PM10	N/A	360	tons	0.0011	ton	2	0.40	1.73	0.00	0.396	1.73
ES2327C	Conveyor No. 6 Metal Diverter Chute	N/A	PM	N/A	1	tons	0.0030	ton	2	3.00E-03	1.31E-02	0.00	3.00E-03	1.31E-02
ES2327C	Conveyor No. 6 Metal Diverter Chute	N/A	PM10	N/A	1	tons	0.0011	ton	2	1.10E-03	4.82F-03	0.00	1.10E-03	4.82E-03
IS-30	Elevator #12	N/A	PM	N/A	10	tons	0.0030	ton	2	0.03	0.13	0.00	0.030	0.13
IS-30	Elevator #12	N/A	PM10	N/A	10	tons	0.0011	ton	2	0.01	0.05	0.00	0.011	0.05

#### Emission References and Sample Calculations Pittsboro

- AP-42 Emission factors are based on Uncontrolled Screening AP-42 Chapter 11.19.2, Crushed Stone Processing and Pulverized Mineral processing.
  - Control efficiency is based on total enclosure to baghouse (PM 99.97%; PM10 99.92%) or uncontrolled (0%)
- AP-42 Emission factors are based on Uncontrolled Conveyor Transfer Points, AP-42 Chapter 11.19.2, Crushed Stone Processing and Pulverized Mineral processing.
  - Control efficiency is based on total enclosure to baghouse (PM 99.97%; PM10 99.92%) or uncontrolled (0%)
- AP-42 Emission factors are based on Uncontrolled Tertiary Crushing, AP-42 Chapter 11.19.2, Crushed Stone Processing and Pulverized Mineral processing.
  - Control efficiency is based on total enclosure to baghouse (PM 99.97%; PM10 99.92%)

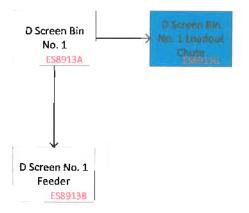




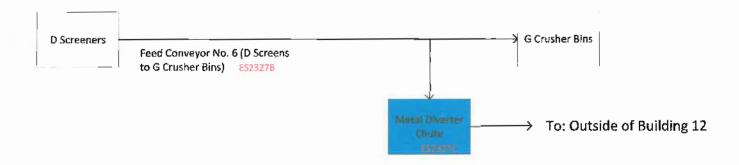
C 8in Conveyor No. 4 ES8913E

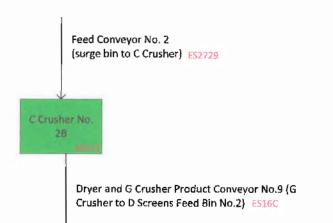
New Unit





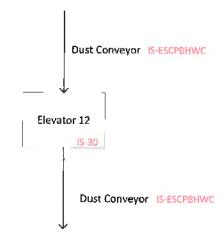






Replacement

Units



# Appendix G: DAHS Narrative



#### Appendix G: Description of Compliance Assurance Monitoring (CAM) Continuous Compliance Data Handling – dP measurements and opacity

Instantaneous differential pressure (dP) measurements are recorded for the Line 1 and 2 Mixer Baghouses, Line 1 Kiln Baghouses A and B, and Line 2 Kiln Baghouses A and B once every 1 second in Historian. Each day, the previous day's 5-minute average records for each source are calculated and stored via an automated SQL query of the Historian data, then these records are exported to a Daily Differential Pressure PDF Report that is automatically saved to the plant's environmental records files. The Report displays the average 5-minute records and a calculated hourly and daily average dP for the Line 1 and 2 Mixer Baghouses, Line 1 Kiln Baghouses A and B, and Line 2 Kiln Baghouses A and B and 2 Kilns.

Instantaneous opacity measurements from the COMS for the CNS Dryer, Line 1 Preheater, and Line 2 Preheater are recorded once every 10 seconds in a data acquisition and handling hardware system. The software Airvision is used to automatically calculate and record 6-minute block averages for opacity from the 10-second instantaneous measurements recorded in the DAHS hardware.