From:	Air.Pollution Control
То:	APC Permitting
Subject:	FW: [EXTERNAL] imi Dickson - Construction/Operating Permit Application
Date:	Friday, August 25, 2023 9:39:31 AM
Attachments:	2023.08.25 - Dickson - Const Op Permit Application.pdf
	image001.png

Tell us how we're doing. Take our TDEC customer service survey.



Donna F. Brown | Administrative Services Assistant Air Pollution Control William R. Snodgrass Tennessee Tower/15th Floor 312 Rosa L Parks Avenue Nashville, Tennessee 37243 p. 615-532-0532 Donna.f.brown@tn.gov

From: Art Fisher <art.fisher@irvmat.com>
Sent: Friday, August 25, 2023 9:16 AM
To: Air.Pollution Control <Air.Pollution.Control@tn.gov>; Tracy Kefauver <Tracy.Kefauver@tn.gov>
Subject: [EXTERNAL] imi Dickson - Construction/Operating Permit Application

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. ***

APC Team,

Please see attached Construction/Operating Permit Application for our Dickson plant.

Sincerely,

Art Fisher, PG - Environmental Manager - imi 5209 Linbar Dr, Nashville, TN 37211 art.fisher@irvmat.com (615) 574-3114



August 25, 2023

Ms. Tracy Kefauver TDEC-Environmental Protection Specialist 3 Division of Air Pollution Control William R. Snodgrass Tennessee Tower, 15th Floor 312 Rosa L. Parks Avenue Nashville, TN 37243

RE: Construction/Operating Permit Application IMI Tennessee, LLC dba imi TN, LLC – Dickson (Emission Source Ref. No.: 22-0106-01)

Dear Ms. Kefauver,

Enclosed please find a completed Construction/Operating Permit application package for our facility located at 1550 Old Columbia Rd, Dickson, TN 37055. The purpose of the application is to remove the central dust collector connection to the silos and replace them with Stephens 1020 pulsating baghouses.

NOTE - Split Silo 1 will have a side-by-side 1020x2 pulsating baghouse. The central dust collector will continue to pull from the weigh batcher and discharge chute.

A hard copy check for \$100 has been mailed to the 312 Rosa L Parks Ave address on the APC 100 form with a reference to the facility's address.

Please do not hesitate to contact me should you have any questions.

Sincerely,

and Fisher

Art Fisher, Environmental Manager

Attachments: Dickson Air Construction Permit Application

- APC 100 & APC 111
- Flow Diagram
- Emissions Calculations
- Equipment spec sheets



NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

	Тур	e or print and sub	mit. Atta	ich a	ppropriate so	ource description	n forms.		
			SITE	INFO	ORMATION				
	anization's legal essee, LLC dba imi T		control n	umb	er [as registe	ered with the TN	Secretary of State (SOS)]		
2. Site	e name (if differer	nt from legal nam	e)						
	•	rmit application		g su	bmitted?	Yes 🖌 No			
4. Site 1550 Old	e address (St./Rd./ Columbia Rd	/Hwy.)					County name Dickson		
City Dickson				Zip 3705	code 55		5. NAICS or SIC code 327320		
	at. /long.)	Latitude 36.040120	I			Longitude -87.339568			
		CONTACT I	NFORMA	TIO	N (RESPONS	BLE PERSON)			
7. Res Art Fisher		/Authorized cont	tact			Phone numb 615-574-3114	er with area code		
Mai 5209 Link	l ing address (St./ bar Dr	/Rd./Hwy.)				Fax number v	vith area code		
City Nashville			State TN		Zip code 37211	Email addres art.fisher@irvm			
		CONT	ACT INFO	ORM	IATION (TEC	INICAL)			
8. Prin Art Fisher	ncipal technical o r	contact				Phone numb 615-574-3114	er with area code		
Mai 5209 Link	ling address (St., par Dr	/Rd./Hwy.)				Fax number v	Fax number with area code		
City Nashville			State TN		Zip code 37211	Email addres art.fisher@irvm			
		CON	NTACT IN	FOR	MATION (BI	LING)			
9. Billi Art Fishei	ing contact					Phone numb 615-574-3114	er with area code		
Mai 5209 Link	ling address (St., par Dr	/Rd./Hwy.)				Fax number v	vith area code		
City Nashville			State TN		Zip code 37211	Email addres art.fisher@irvm			

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of	air contaminant source	(s) and Unig	ue Source	ID(s) , List identify	and briefly describe
•	on sources, fuel burning ir	•			2
•	nique Source ID for each				
	•		•		
	ies the air contaminant so	ource(s), like	Boller #1,	Paint Line #1, Engi	ie #1, etc. (see
instructions for		entral dust col	lector conn	ection to the silos and	replace them with Stephens
1020 pulsating baghou					replace them with stephens
rozo pubating bagnou					
The following emission	points will be the following				
	and and aggregate storage				
- 2 Vehicular traffic fugi	55 5 5				
-	her (CWB) (Stephens 6100 Ce	entral Dust Col	lector @ 8,0	00 CFM)	
	te with hood (Stephens 6100				
- 5 Split Silo 1 - Cement	/Cement (Stephens SOS 102	0x2 Pulsating	Baghouses)		
- 6 Silo 2 - Fly Ash (Step	hens SOS 1020 Pulsating Bag	ghouse)			
11. Is the air contai	minant source(s) in a no	nattainmer	nt area? If	"Ves" then minor	source BACT must be
			it di cui ii		source bact must be
addressed. Yes	s No				Source BACT must be
					Source BACT must be
	s No	Days/Week		Weeks/Year	Days/Year
addressed. Yes	s No				
addressed. Yes	s No J J Hours/Day 24	Days/Week 7		Weeks/Year 52	Days/Year 320
addressed. Yes 12. Normal operation: 13. Percent annual	S No Hours/Day 24	Days/Week		Weeks/Year	Days/Year
addressed. Yes	S No Hours/Day 24 Dec. – Feb. 20	Days/Week 7 March – Ma 30	у	Weeks/Year 52 June – August 30	Days/Year 320 Sept. – Nov.
addressed. Yes	S No Hours/Day 24 Dec. – Feb. 20 TYPE OF PERMIT	Days/Week 7 March – Ma 30 F REQUESTEL	y) (check a	Weeks/Year 52 June – August 30 ppropriate box)	Days/Year 320 Sept. – Nov. 20
addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating	S No Hours/Day 24 Dec. – Feb. 20	Days/Week 7 March – Ma 30 F REQUESTEL	у	Weeks/Year 52 June – August 30 ppropriate box)	Days/Year 320 Sept. – Nov.
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addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating permit ✓ Construction	S No Hours/Day 24 Dec. – Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s)	Days/Week 7 March – Ma 30 F REQUESTEI rted Date o	y) (check a completed Emissi	Weeks/Year 52 June – August 30 ppropriate box) Date of ownersh on Source Reference	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s)
addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating permit ✓	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) Last permit number(s) 	Days/Week 7 March – Ma 30 F REQUESTEI rted Date o	y) (check a completed Emissi Emissi	Weeks/Year 52 June – August 30 ppropriate box) Date of ownersh on Source Reference	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s)
addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating permit ✓ Construction permit	 No Image: No Image: No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIN Date construction star Last permit number(s) Last permit number(s) 066801P 	Days/Week 7 March – Ma 30 FREQUESTEL ted Date (y D (check a completed Emissi 22-0106	Weeks/Year 52 June – August 30 ppropriate box) Date of ownersh on Source Reference 5-01	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s)
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addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating permit ✓ Construction permit ✓ If you chose Construct	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) Last permit number(s) uction permit above, then 	Days/Week 7 March – Ma 30 FREQUESTEL ted Date (y D (check a completed Emissi 22-0106	Weeks/Year 52 June – August 30 ppropriate box) Date of ownersh on Source Reference on Source Reference 5-01	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s)
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addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating ✓ permit ✓ Construction permit ✓ If you chose Construction ✓ New Construction S	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) Last permit number(s) Last permit number(s) Last permit above, then starting date 	Days/Week 7 March – Ma 30 FREQUESTED ted Date of 0	y D (check a completed Emissi 22-0106 er New Cor Completio	Weeks/Year 52 June – August 30 ppropriate box) Date of ownersh on Source Reference on Source Reference 5-01	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s) ce Number(s) tion, or Location Transfer
addressed. Yes 12. Normal operation: 13. Percent annual throughput 14. Operating ✓ permit ✓ If you chose Construction ✓ If you chose Construction ✓ Modification □	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) Last permit number(s) Last permit above, then itarting date Date modification started of 	Days/Week 7 March – Ma 30 FREQUESTED ted Date of 0	y D (check a completed Emissi 22-0106 er New Cor Completic Date com	Weeks/Year 52 June – August 30 Date of ownersh on Source Reference on Source Reference on Source Reference on Source Reference on Source Reference on date	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s) ce Number(s) tion, or Location Transfer
addressed. Yes 12. Normal operation:	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) 066801P Last permit above, then starting date Date modification started opending permit approval 	Days/Week 7 March – Ma 30 FREQUESTED ted Date of 0	y D (check a completed Emissi 22-0106 er New Cor Completio Date com Pending p	Weeks/Year 52 June – August 30 Date of ownersh on Source Reference on Source Reference on Source Reference on Source Reference on date	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s) ce Number(s) tion, or Location Transfer
addressed. Yes 12. Normal operation:	 No Hours/Day 24 Dec Feb. 20 TYPE OF PERMIT Date construction star Last permit number(s) Last permit number(s) Last permit above, then itarting date Date modification started of 	Days/Week 7 March – Ma 30 FREQUESTED ted Date of 0	y D (check a completed Emissi 22-0106 er New Cor Completio Date com Pending p	Weeks/Year 52 June – August 30 Date of ownersh on Source Reference on Source Reference on Source Reference on Source Reference on Source Reference on date	Days/Year 320 Sept. – Nov. 20 nip change (if applicable) ce Number(s) ce Number(s) tion, or Location Transfer

15. Describe changes that have been m	ade to this equipment or op	eration(s) since the last construction
or operating permit application:		
N/A		
16. Comments		
None		
	SIGNATURE	
Based upon information and belief formed		
mentioned facility, certify that the informat		-
knowledge. As specified in TCA Section 39-		
17. Signature (application must be signed	before it will be processed)	Date
art Fisher		2023.08.25
Signer's name (type or print)	Title	Phone number with area code
Art Fisher	Environmental Manager	615-574-3114



NON-TITLE V PERMIT APPLICATION CONCRETE BATCH PLANT SOURCE DESCRIPTION

		•			•	ant. Submit wit			
		GENE	RAL IDI	ENTIFICAT	ION AND	DESCRIPTION			
	Organization's legal n Secretary of State (SOS Tennessee, LLC dba imi TN,	ame and SOS						Refere	ion Source ence Number 0106-01
3.	Is this air contaminan If Yes, list rule citation, i		-					No	
4. Plar	Unique Source ID (nan at 1	ne/number th	at unic	luely ident	ifies this s	ource, like Plar	nt 1)		o nstructed hknown
6.	Maximum annual production: (Yards)	Transit mix			Central m	nix	Dry	mix 100,0	000
		(CEMEN	T RECEIVI	NG AND S	TORAGE			
7.	Cement receiving equipment	ls conveyor enclosed? Yes	No	ls elevato enclosed Yes		Compressed flow (Ft. ³ /Min 450		erage load e (Tons) 25	Normal loading time (Min.) 55
8.	Cement storage silos:	Number of silos 1		capacity : barrels ns) 125		<u>controls</u> Discharges to c filter And	o (check o other silo		None
			WEIGH	H-BATCHE		IATION			
9.	Weigh batcher:	Capacity (Ya	rds) 10		Batchin (Yards/	0		ch dumping ds/Minute) 1.	
	Silo – to – weigh – batcher vent controls	Hood 🖌		Fabric filt	er 🖌	Discharges	s to silo	No	one
10.	Weigh - batcher:	Discharges t	io: (In yards/ye	ear) 100,000	C			
	(Check or complete as appropriate)	Trucks (all) 100,00	0	Tilt		Pro	ducts mixer	
				Weigh	n-batcher	discharge chut	e control	s:	
		Adjustal gathering h		Hoo	d]	Fabric filter		arges to ilo	None

11. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

S	ILO #1 EMISSION INFOR	RMATION	
12. Emission point data for:	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Height above grade (Ft.)	64	20	14
B. Diameter (Ft.)	6"	6"	2
C. Emission exit direction	Up	Horizontal	Down
(Up, down, or horizontal)			
D. Air flow rate (Ft. ³ /Minute)	2250	8,000	8,000
13. Particulate matter (PM)	Silo vent	Silo-to-weigh-batcher	Weigh-batcher
		vent	discharge chute
A. Average emissions (Pounds/Hour)	0.008	0.41	4.56
B. Maximum emissions (Pounds/hour)	0.008	0.41	4.56
C. Average emissions (Tons/Year)	0.004	0.231	2.54
D. Potential emissions (Tons/Year)	0.004	0.231	2.54
E. Emissions estimation method*	Calculations	Calculations	Calculations
F. Control devices*	Pulsating Baghouse	Central Dust Collector	Central Dust Collecto
G. Control efficiency %	99.95	99.95	99.95
S	ILO #2 EMISSION INFOR	MATION	
14. Emission point data for:	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Height above grade (Ft.)	54	20	14
B. Diameter (Ft.)	6"	6"	2
C. Emission exit direction (Up, down, or horizontal)	Up	Horizontal	Down
D. Air flow rate (Ft. ³ /Minute)	2250	8,000	8,000
15. Particulate matter (PM)	Silo vent	Silo-to-weigh-batcher vent	Weigh-batcher discharge chute
A. Average emissions (Pounds/Hour)	0.02	0.41	4.56
B. Maximum emissions (Pounds/hour)	0.02	0.41	4.56
C. Average emissions (Tons/Year)	0.009	0.231	2.54
D. Potential emissions (Tons/Year)	0.009	0.231	2.54
E. Emissions estimation method*	Calculations	Calculations	Calculations
F. Control devices*	Pulsating Baghouse	Central Dust Collector	Central Dust Collecto
G. Control efficiency %	99.95	99.95	99.95

16. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
 - A record of the Hours of Operation and Production (yd/yr) will be maintained at the facility for inspection.

- Maintenance records of air pollution control devices will be maintained at the facility for inspection.

17. Road dust control:	None	Paved	Oiled	Watered	frequently
Plant yard:		\checkmark			Х
Access roads:		\checkmark			Х
18. Stockpiles:	Estimated annual tonnage	Number of sides enclosed	Turnover rate (Tons/Month)	Received damp	Wetted as received
Gravel:	95,000	3	7,800		Х
Sand:	69,000	3	5,700		

SIGNATURE

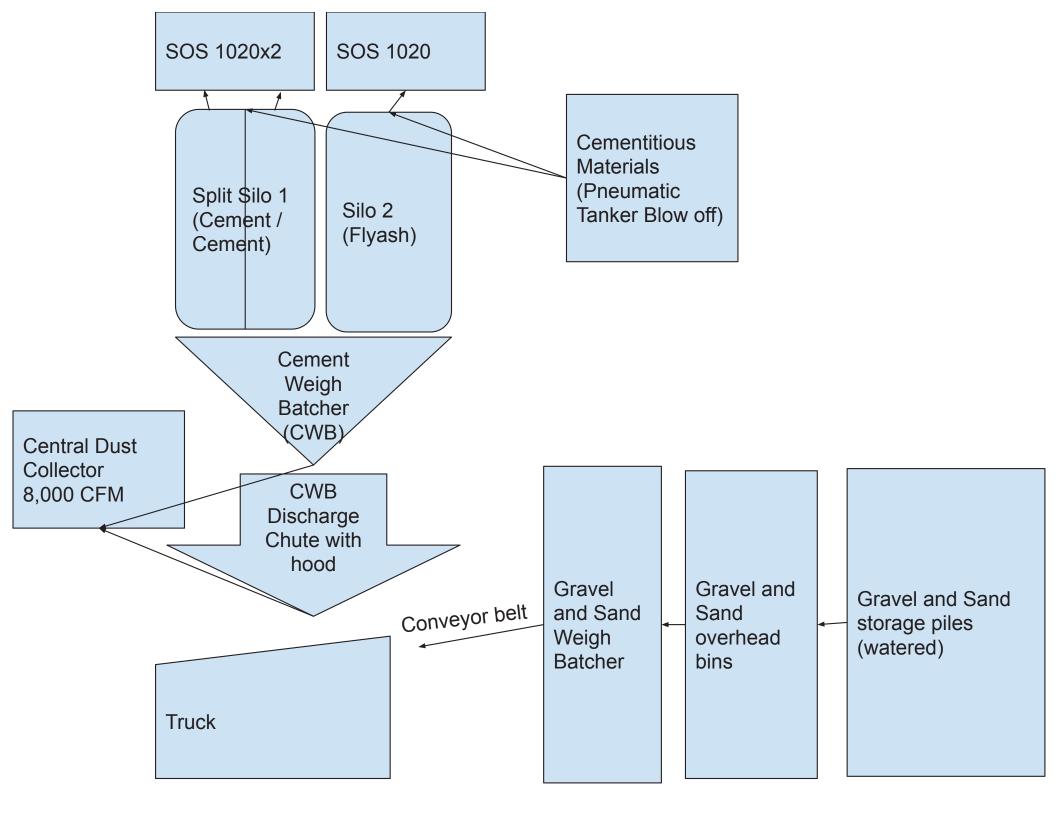
If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

20. Signature Art Fisher		Date 2023.08.25
Signer's name (type or print)	Title	Phone number with area code
Art Fisher	Environmental Manager	615-574-3114

Concrete batch plant diagram instructions: Show general plant layout and air pollution control devices. Indicate the following: storage pile areas, conveyor systems, method of receiving cement, elevators, silos, silo vents, silo-to-weigh-batcher vent, weigh-batcher discharge chute, and product receiving equipment such as trucks and tilt or product mixers. Indicate air pollution control devices such as fabric filters, wet suppressions, hoods, canvas coverings, enclosures, etc.

* Refer to the instructions for the estimation method and control device codes. If the code is "Other" specify in comments.



Dickson 22-0106-01

Emission Point	Process		EF	Hourly F	Rate	Daily	Rate	12-Mo	onth Rate	lb/hr	lb/day	lb/12 Months	ton/12 Months
	Weigh Hopper	0.0028	lb/ton	148.2	tons	3,556.4	tons	164,650	tons	0.41	10.0	461.0	0.231
	Truck Loading (truck mix)	0.0263	lb/ton	173.6	tons	4,165.6	tons	192,850	tons	4.56	109.6	5,072.0	2.54
	Cement Silo Unloading	0.00034	lb/ton	22.1	tons	530.3	tons	24,550	tons	0.008	0.180	8.35	0.004
	Fly Ash Silo Unloading	0.0049	lb/ton	3.29	tons	78.8	tons	3,650	tons	0.02	0.39	17.9	0.009
	Agg. Transfer/Mat'l Handling/Piles	0.0338	lb/ton	83.9	tons	2,014.2	tons	93,250	tons	2.84	68.2	3,155	1.58
	Sand Transfer/Mat'l Handling/Piles	0.00203	lb/ton	64.3	tons	1,542.2	tons	71,400	tons	0.13	3.12	145	0.072
	Vehicle Traffic	1.299	lb/VMT	10.5	miles	252	miles	280,000	miles	15.1	362	9,090	4.54
				•					Totals:	23.07	553.8	17,948.9	8.97

AP-42 /	Average Concrete Comp	osition	ton/hr	ton/day	ton/12 mo
Aggregate	1,865	lb/cu yd	83.9	2,014	93,250
Sand	1,428	lb/cu yd	64.3	1,542	71,400
Cement	491	lb/cu yd	22.1	530	24,550
Fly Ash	73	lb/cu yd	3.29	79	3,650
Water	167	lb/cu yd	7.5	180	8,350
Г	otal: 4,024	lb/cu yd	173.6	4,166	192,850

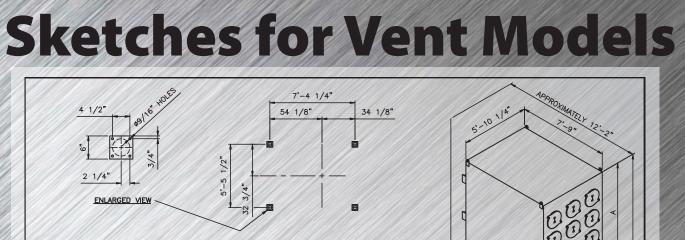
(Totals do not include water)

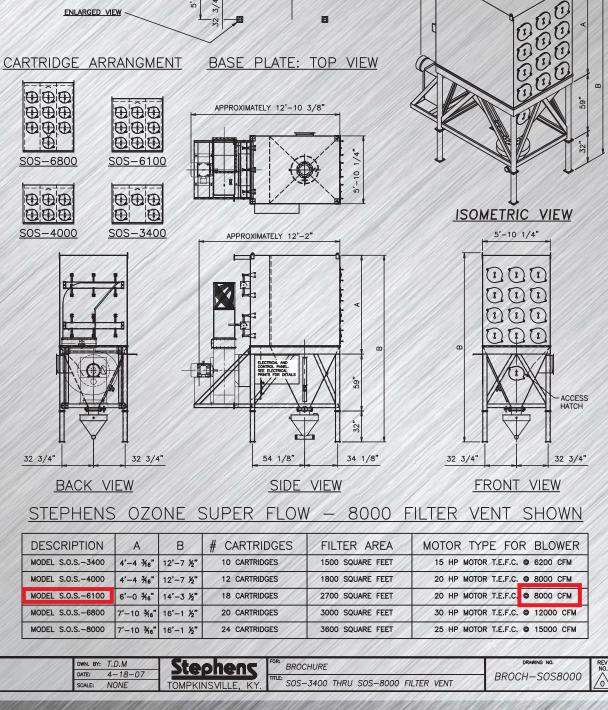
- Emission factors: AP-42, Section 11.12

Max Production Rates90cu yd/hr2,160cu yd/day100,000cu yd/12 Mo.

- Emission factors for Vehicle Traffic: AP-42, Section	13.2					
	0.07 mile/cu yd batched *	100,000 cu yd/12 mo =	7,000 miles *	1.299 lb/VMT =	9,090 lb/2,000 lb/ton = (ton/12 Months)	4.54
- Emission Factors for Aggregate Handling: AP-42, S	ection 13.2.4, eqn 1	k = 1.6 (% silt), U = 6.9 (mph), M = 0.7 (% Moisture Content)			
$E = k(0.0032)((U/5)^{1}.3))/(M/2)^{1}.4)) =$	0.0338 lb/ton					
- Emission Factors for Sand Handling: AP-42, Section	n 13.2.4, eqn 1	k = 2.6 (% silt), U = 6.9 (mph), M = 7.4 (% Moisture Content)			
$E = k(0.0032)((U/5)^{1.3}))/(M/2)^{1.4})) =$	0.00203 lb/ton					
- Emission factors for Vehicle Traffic: AP -42, Section	13.2.2, eqn 1a and 2	k = 1.5, s = 4.8 (% Silt), a = 0.9, W = 33	(tons), b = 0.45, P = 120	0 (days)		
E = k(s/12)^a(W/3)^b; Eext = E [(365-P)/365] =	1.299 lb/VMT					

	SOS 1020	ŞV-20	RA120
Is the baghouse insulated?	NO	NO	
Serial Number:	10499-20	10499-20	
Number of Bags per compartment	3 CARTRONIGES	14	48
Design minimum operating temperature:	2209-270F	220 ⁰ F	
Are temperature controls provided?	NO	No	
Air flow through baghouse (induced, forced or other)	Induced	forced	
Maximum inlet volumetric gas flow rate (acfm at °F)	2250 ACFM	20 ACFM	
Dew point at maximum moisture content of gas:	NA DRY	NA DRY	
Clean fabric permeability: xxscfm/ft ² at change of pressure of xx inches (example 28 scfm/ft2 at 0.5 psi)	99.990 EFFILANT WILL	W 99.6 EFFRENT MIZ	Bon
Minimum effective air to cloth ratio (feet/min)	5+01	5+01	
Maximum effective air to cloth ratio (feet/min)	8 HOI AT CARTERING		
Design pressure drop across baghouse	.5 420	5 420	
Describe the determining factor fabric filter changing/replacement? (I'm assuming pressure drop value below or above design value)?	18 to 36 months usable	18 to 36 MENTES userge	Pressure drop
What is the air pressure (psi) used to clean the bags?	120 PST	AMDIENT ARE	
Is the hopper heated?	No	NO	
Is there a hopper vibrator?	No	NO	
Is the baghouse downward venting or horizontal?	DOWNWARD VENTRUE	POWAWARD VENTENO	
Are there any additional alarms provided regarding baghouse operation?	OVER FILL PROTECTEDAS	OVER FELL PROTECTIONS	
	ON FOLL LOUES	ON FELL LONGS	

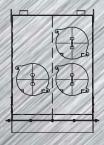


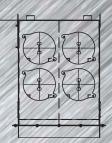


SOS (Stephens Ozone Super-Flow)

Silo Cartridge Vent

CARTRIDGE ARRANGEMENT





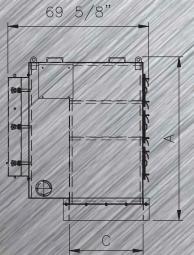
<u>SOS-1020</u>

<u>SOS-1360</u>

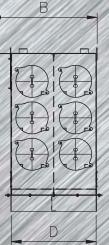


SOS-2040

CARTRIDGES SPECIFICATIONS



SIDE VIEW



FRONT VIEW

SOS - 1020X2 SHOWN

SOS-1020 1069 lb.	SOS-1020X2 1480 lb.	SOS-1360 1100 lb.	SOS-2040 1350 lb.
A: 60 ^{7/8″}	A: 80 ^{7/8″}	A: 60 ^{7/8″}	A: 78 ^{7/8″}
B: 41″	B: 52 ¾″	B: 51 ^{1/8″}	B: 50 ¾″
C: 40″	C: 36 ½″	C: 40″	C: 40″
D: 40″	D: 42″	D: 40″	D: 40″

FEATURES:

Easy to replace cartridges, no tools required and no confined space. Cartridges replace from outside vent.

Cartridges cleaned semi-automatically by pulse reverse air for continuous cleaning.

All parts and cartridges are kept in stock.