

HEIDELBERG MATERIALS US CEMENT LLC/NAZARETH



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date:June 5, 2025Effective Date:July 7, 2025Revision Date:July 7, 2025Expiration Date:June 5, 2030

Revision Type: Amendment

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 48-00004

Federal Tax Id - Plant Code: 23-0797050-6

Owner Information

Name: HEIDELBERG MATERIALS US CEMENT LLC

Mailing Address: 3938 EASTON NAZARETH HWY NAZARETH, PA 18064-3017

Plant Information

Plant: HEIDELBERG MATERIALS US CEMENT LLC/NAZARETH

Location: 48 Northampton County 48923 Lower Nazareth Township

SIC Code: 3241 Manufacturing - Cement, Hydraulic

Responsible Official

Name: ROLAND BACHMANN
Title: PLANT MANAGER

Phone: (610) 746 - 3297 Email: roland.bachmann@heidelbergmaterials.com

Permit Contact Person

Name: LUIS RODRIGUEZ
Title: ENVIRONMENTAL PROF

Phone: (610) 746 - 3229 Email: luis.rodriguez@heidelbergmaterials.com

[Signature]

MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



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Source I	D Source Name	Capacity/	Throughput	Fuel/Material
401	HAUCK HEATER	6.000	MMBTU/HR	
501	TERI HEATER	0.650	MMBTU/HR	
110 -3	FINISH GRINDING MILL #1			
111 -3	CEMENT SILO CIRCUIT #1			
115 -3	BULK TRUCK LOADING STATION NORTH			
116 -3	R.R. BULK LOADING STATION #1			
120 -3	FINISH GRINDING MILL #2			
121 -3	FINISH GRINDING MILL #3			
122 -3	FINISH GRINDING MILL #4			
123 -3	FINISH GRINDING MILL #5			
124 -3	CEMENT SILO CIRCUIT #2			
125 -3	CEMENT SILO CIRCUIT #3			
130 -3	BULK TRUCK LOAD STATION SOUTH			
132 -1	TRUCK NO. 1 LOADOUT			
134 -3	CLINKER SILO CIRCUIT			
135 -3	PLANT III -MISC. SOURCES (HAULROADS)			
136 -3	PLANT III-MISC.STOCKPS & GYP SYS ELEV CONVY MAT STOCKPS			
137 -1	CEMENT TRUCK NO. 2 LOADOUT			
137 -3	PLANT III - (CEMENT HANDLING) SILOS AND PACKING MACHINES			
139 -3	CLINKER DUMP HOPPER			
140 -1	CONVEYOR 103			
140 -3	CLINKER TRANSFER CONVEYOR FROM PLANT I TO PLANT III			
141 -1	CONVEYOR 103 TO 104, & 117			
142 -1	KILN SYSTEM - NORMAL MODE - 1,517,630 STPY			
142 -3	ROTORY PACKER			
145 -1	RAW MATERIAL BLENDING SILO 309			
146 -1	RAW MATERIAL BLENDING SILO 307/308			
147 -1	KILN PREHEATER FEED SYSTEM			
148 -1	CLINKER LOADOUT STATION			
149 -1	CLINKER STORAGE SILOS 601 & 603			
150 -1	GYPSUM STORAGE SILO 602			
151 -1	ROLL PRESS			
152 -1	FINISH MILL & SEPARATOR			
153 -1	RAW MATERIAL CONVEYOR 109-110			
154 -1	RAW MATERIAL CONVEYOR 110-112			
155 -1	RAW MATERIAL UNLOAD (EXCEPT STONE)			
156 -1	RAW MAT. TRANSFER CONVYS. 147/148/149 SOLID FUEL AND CLINKER			
159 -1	SPECIAL CLINKER HOPPER			
160 -1	RAW MATERIAL CONVEYOR 108-109 & STONE			

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Source II	O Source Name	Canacity/Throughnut	Fuel/Material
Source IL	HOPPER	Capacity/Throughput	i deviviateriai
161 -1	NEW CLINKER SILO CONVEYOR #521/#522		
162 -1	NEW CLINKER SILO #524		
163 -1	CLINKER SILO #544		
164 -1	CEMENT STORAGE SILOS		
165 -1	BUCKET CONVEYOR #501		
166 -2	PLANT II QUARRY OPERATIONS (CRUSHER)		
168 -1	COAL OPERATIONS		
169 -1	CLINKER COOLER		
	PLANT II - CEMENT SILO		
170 -2			
172 -1	CLINKER SILO DISCHARGE		
173 -1	PLANT I - MISC. ROADS & STOCK PILES		
176 -1	CEMENT TRUCK LOADOUT #3		
177A-1	CONVEYOR 105 - LONG BELT		
177B-1	PLANT CONVEYOR - CLINKER		
202	ALKALINE REAGENT STORAGE BIN		
203	ENGINEERED FUEL RECEIVING DOSING CONVEYING SYSTEM		
301	EMERGENCY GENERATOR - 1140 HP CAT399		
C100	BAGHOUSE #203 - ROLLER MILL/KILN SYSTEM		
C101	BAGHOUSE #260 - KILN SYSTEM		
C102	BAGHOUSE #370 - RAW MATERIAL BLENDING SILO		
C104	309 BAGHOUSE #510 - CLINKER STORAGE SILOS 601 & 603		
C105	BAGHOUSE #563 - CLINKER STORAGE SILOS 601 & 603		
C106	BAGHOUSE #615 - PLANT I FINISH MILL SWEEP		
C107	BAGHOUSE #160 - RAW MATERIAL UNLOADING		
C108	BAGHOUSE #530 - NEW CLINKER SILO CONVEYOR		
C109	BAGHOUSE #555 - NEW CLINKER SILO CONVEYOR		
C110	BAGHOUSE #728 - CEMENT STORAGE SILOS		
C112	BAGHOUSE #660 - CEMENT STORAGE SILOS		
C113	WATER SPRAYS		
C114	BAGHOUSE #435 - COAL OPERATIONS		
C115	BAGHOUSE #415 - COAL OPERATIONS		
C116-2	BAGHOUSE - CEMENT SILO CD603-II		
C117-2	BAGHOUSE - CEMENT SILO CD604-II		
C118-2	BAGHOUSE - CEMENT SILO CD605-II		
C119-2	BAGHOUSE - CEMENT SILO CD606-II		
C120-2	BAGHOUSE - CEMENT SILO CD607-II		
C121	BAGHOUSE #550 - CLINKER SILO DISCHARGE		
C125	BAGHOUSE #708 - CEMENT TRUCK LOADOUT #3		

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SECTION A. Site Inventory List			
Source I	D Source Name	Capacity/Throughput	Fuel/Material
C126	BAGHOUSE #115 - PLANT CONVEYOR		
C127	BAGHOUSE #656 - PLANT CONVEYOR - CLINKER		
C128	BAGHOUSE #45 - PLANT CONVEYOR - CLINKER		
C129	NEW 33 BAGHOUSE		
C13	TRUCK NO. 1 BAGHOUSE #737		
C135	WATER SPRAY - PLANT 1 HAUL ROADS (TRUCKS)		
C136	WATER SPRAY - PLANT 1 HAUL ROADS (HEAVY EQUIPMENT)		
C137-2	BAGHOUSE #70 - PLANT II QUARRY OPERATIONS (CRUSHER)		
C137-3	BAGHOUSE #703 - CEMENT SILO CIRCUIT #1 TO MAS PUMP		
C138-3	BAGHOUSE #704 - CEMENT SILO CIRCUIT #1		
C139-3	BAGHOUSE #711 - SILO GROUP #2		
C140	BAGHOUSE #716 - GROUP #3 DIRECT TRANSFER		
C141	BAGHOUSE #503 - TOP OF CLINKER SILO		
C144	BAGHOUSE #506 - BOTTOM OF CLINKER SILO		
C145	BAGHOUSE #507 - BOTTOM OF CLINKER SILO		
C146	BAGHOUSE #508 - BOTTOM OF CLINKER SILO		
C147	BAGHOUSE #509 - BOTTOM OF CLINKER SILO		
C148	BAGHOUSE #705 - MASONRY GROUP 2 CEMENT		
C149	BAGHOUSE #706 - "G" GROUP 2 CEMENT		
C150	BAGHOUSE #707 - NORTH AND SOUTH FRINGE BIN		
C151	BAGHOUSE #801 - TRANSFER TO ROTORY PACKER		
C152	BAGHOUSE #803 - TRANSFER TO ROTARY PACKER		
C17	BAGHOUSE #601 - FINISH GRINDING MILL 1		
C18	BAGHOUSE #602 - FINISH GRINDING MILL 2		
C19 -1	BAGHOUSE #743 - TRUCK LOADOUT 2 PLANT I		
C19 -3	BAGHOUSE #603 - FINISH GRINDING MILL 3		
C20	BAGHOUSE #604 - FINISH GRINDING MILL 4		
C202	BAGHOUSE - ALKALINE REAGENT BIN		
C203-A	FUEL CHAIN CONVEYOR DUST COLLECTOR		
C203-B	FUEL DOSING DEVICE DUST COLLECTOR		
C21 -1	J-M WATER SPRAYS		
C21 -3	BAGHOUSE #605 - FINISH GRINDING MILL 5		
C22 -1	J-M WATER SPRAYS		
C22 -3	BAGHOUSE #701 - SOUTH DUST COLLECTOR GROUP 1		
C23 -1	BAGHOUSE #331 - PREHEATER FEED SYSTEM		
C23 -3	BAGHOUSE #702 - NORTH DUST COLLECTOR GROUP 1		
C24 -1	BAGHOUSE #509 - CLINKER LOADOUT		
C24 -3	BAGHOUSE #710 - TOP OF SILO GROUP 2		

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Source II		Capacity/Throughput	Fuel/Material
C25 -1	BAGHOUSE #679 - ROLL PRESS		
C25 -3	BAGHOUSE #709 - "G" GROUP 3		
C26 -1	BAGHOUSE #616 - FINISH MILL SEPARATOR		
C26 -3	BAGHOUSE #712 - "F" GROUP 3		
C27 -1	J-M WATER SPRAYS		
C28 -1	J-M WATER SPRAYS		
C28 -3	BAGHOUSE #802 - ROTORY PACKER		
C29 -1	J-M WATER SPRAYS		
C29 -3	BAGHOUSE #805 - ROTORY PACKER		
C30	BAGHOUSE #166 - RAW MATERIAL CONVEYOR 148/149		
C31 -1	BAGHOUSE #165 - RAW MATERIAL TRANSFER CONVEYORS 147/148		
C31 -3	BAGHOUSE #808 - ROTORY PACKER		
C32	BAGHOUSE #325 - KILN FEED SILO 309		
C37 -1	BAGHOUSE #525 - NEW CLINKER SILO		
C37 -3	BAGHOUSE #713 - PLANT III BULK LOADING STATION NORTH		
C38 -1	BAGHOUSE #545 - CLINKER SILO TYPE II		
C38 -3	BAGHOUSE #714 - BULK LOADING STATION SOUTH		
C39 -3	BAGHOUSE #715 - RAIL ROAD CAR LOADOUT		
C39A-1	BAGHOUSE #712A - PLANT I CEMENT SILOS		
C39B-1	BAGHOUSE #712B - PLANT I CEMENT SILOS		
C39C-1	BAGHOUSE #712C -PLANT I CEMENT SILOS		
C39D-1	BAGHOUSE #712D - PLANT I CEMENT SILOS		
C41	BAGHOUSE #410 - CLINKER COOLER		
C44	BAGHOUSE - CLINKER DUMP HOPPER		
C47	SNCR		
C48	DRYLIME INJECTION		
Z08	CONVEYORS, HOPPERS, ELEVATORS		
FM MIS	NATURAL GAS, PET COKE, BITUMINOUS.& ANTHRACITE COAL		
FML002	#2, #5, #6 FUEL OIL, ON SPEC. USED OIL, BIO-FUEL		
FML003	ENGINEERED FUEL		
S10	STACK - FINISH GRINDING MILL #1 BAGHOUSE		
S102	STACK - FOR #370 BAGHOUSE		
S104	STACK - FINISH MILL SILO BAGHOUSE #510		
S105	STACK - FINISH MILL SILO BAGHOUSE #563		
S106	STACK - FINISH MILL SEPARATOR		
S107	STACK - RAW MATERIAL UNLOAD		
S108	STACK - CLINKER SILO BAGHOUSE #530		
S109	STACK - CLINKER SILO BAGHOUSE #555		
S11	STACK - FINISH GRINDING MILL #2		







OLOTIC	ON A. Site inventory List		
Source I	D Source Name	Capacity/Throughput	Fuel/Material
S110	STACK - CEMENT STORAGE SILO BAGHOUSE #728		
S112	STACK - CEMENT STORAGE SILO ELEVATOR		
0111	BAGHOUSE #660		
S114	STACK - COAL OPERATIONS BH #435		
S115	STACK - COAL OPERATIONS BH #415		
S116	STACK - CEMENT STORAGE SILO BAGHOUSE #603		
S117	STACK - CEMENT STORAGE SILO BAGHOUSE #604		
S118	STACK - CEMENT STORAGE SILO BAGHOUSE #605		
S119	STACK - CEMENT TRUCK LOADOUT EAST #606		
S12	STACK - FINISH GRINDING MILL #3		
S120	STACK - CEMENT TRUCK LOADOUT WEST #607		
S121	STACK - CLINKER SILO DISCHARGE BH #550		
S125	STACK - CEMENT TRUCK LOADOUT #3		
S126	STACK - PLANT CONVEYOR - STONE - BAGHOUSE		
0467	#115		
S127	STACK - PLANT CONVEYOR - CLINKER - BAGHOUSE #656		
S128	STACK - PLANT CONVEYOR - CLINKER -		
	BAGHOUSE #45		
S13 -1	STACK - CEMENT TRUCK LOADOUT #1		
S13 -3	STACK - FINISH GRINDING MILL #4		
S137-2	STACK - PLANT 2 CRUSHER BAGHOUSE		
S137-3	STACK - CEMENT SILO CIRCUIT #1 BAGHOUSE MAS PUMP		
S138	STACK - CEMENT SILO CIRCUIT #1 BAGHOUSE A&B PUMP		
S139	STACK- SILO GROUP #2 - BAGHOUSE "F" PUMP		
S14	STACK - FINISH GRINDING MILL #5		
S140	STACK - SILO GROUP #3 DIRECT TRANSFER		
S140			
	STACK - CLINKER SILO BAGHOUSE #503		
S144	STACK - CLINKER SILO BAGHOUSE #1 DRAG		
S145	STACK - CLINKER SILO BAGHOUSE #2 DRAG		
S146	STACK - CLINKER SILO BAGHOUSE #3 DRAG		
S147	STACK - CLINKER SILO BAGHOUSE #4 DRAG		
S148	STACK - MASONRY/SCREW CONVEYOR		
S149	STACK - GROUP II "G" PUMP		
S15	STACK - CEMENT SILO CIRCUIT #1 BAGHOUSE SOUTH		
S150	STACK - NORTH AND SOUTH FRINGE BINS		
S151	STACK - TRANSFER TO ROTORY PACKER BAGHOUSE #801		
S152	STACK - TRANSFER TO ROTARY PACKER BAGHOUSE #803		
S16	STACK - CEMENT SILO CIRCUIT #1 BAGHOUSE NORTH		
S17	STACK - TOP OF SILO GROUP II		
S18	STACK - CEMENT SILO CIRCUIT #3 BAGHOUSE "G"		

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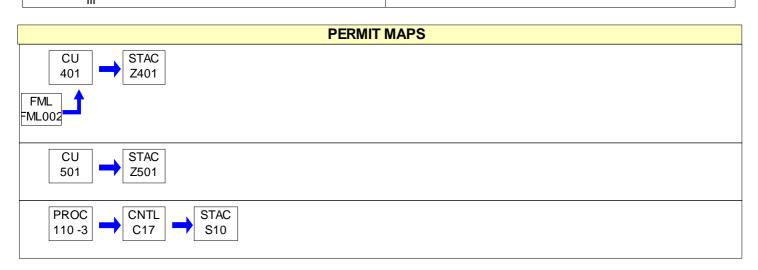
\$19-1 STACK - CEMENT TRUCK NO. 2 LOADOUT \$19-3 CEMENT SILO GROUP III "F" \$202 STACK - ALKALINE REAGENT BIN \$203-A FUEL CHAIN CONVEYOR DUST COLLECTOR \$17ACK \$203-B FUEL DOSING DEVICE DUST COLLECTOR STACK \$203-B FUEL DOSING DEVICE DUST COLLECTOR STACK \$21-1 STACK - PREHEATER FEED ELEVATOR \$21-3 STACK - ROTORY PACKER - BH#1 \$22-1 STACK - CLINKER LOADOUT STATION \$22-3 STACK - ROTORY PACKER - BH#2 \$23 STACK - ROLL PRESS \$24-1 STACK - FINISH MILL SWEEP \$24-3 STACK - ROLL PRESS \$24-1 STACK - ROLL PRESS \$25-1 STACK - ROLL PRESS \$25-2 STACK - RAW MATERIAL TRANSFER CONVEYORS \$147/148 BAGHOUSE #165 \$27 STACK - RAW BLENDING SILOS BAGHOUSE #325 \$29 STACK - BULK TRUCK LOADING STATION NORTH \$30-1 STACK - KILL SYSTEM BAGHOUSES #203 AND #260 \$30-3 STACK - BULK TRUCK LOAD STATION SOUTH \$31 STACK - R. BULK LOADING STATION SOUTH \$32 STACK - BULK TRUCK LOAD SHOUSE #525 \$33 STACK - CLINKER SILO TYPE I BAGHOUSE #525 \$33 STACK - CLINKER SILO TYPE I BAGHOUSE #535 \$36-1 STACK - CLINKER SILO TYPE I BAGHOUSE #33 \$37 STACK - CLINKER SILO BAGHOUSE #7120 \$39 STACK - CEMENT STORAGE SILO BAGHOUSE #7120 \$30 STACK - CEMENT STORAGE SILO BAGHOUSE #70 SILO BAGH	Naterial
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S203-A FUEL CHAIN CONVEYOR DUST COLLECTOR STACK \$203-B FUEL DOSING DEVICE DUST COLLECTOR STACK \$21-1 STACK - PREHEATER FEED ELEVATOR \$21-3 STACK - ROTORY PACKER - BH#1 \$22-1 STACK - CLINKER LOADOUT STATION \$22-3 STACK - ROTORY PACKER - BH#2 \$23 STACK - ROTORY PACKER - BH#2 \$24-1 STACK - FINISH MILL SWEEP \$24-1 STACK - FINISH MILL SWEEP \$24-3 STACK - ROTORY PACKER - BH#3 \$25 STACK - ROW MATERIAL UNLOAD (EXCEPT STONE) BACHOUSE #166 \$26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BACHOUSE #136 \$27 STACK - RAW BLENDING SILOS BAGHOUSE #325 \$29 STACK - BULK TRUCK LOADING STATION NORTH \$30-1 STACK - KILN SYSTEM BAGHOUSE #203 AND #260 \$30-3 STACK - BULK TRUCK LOAD STATION SOUTH \$31 STACK - BULK TRUCK LOAD STATION SOUTH \$31 STACK - CLINKER SILO TYPE I BAGHOUSE #525 \$33 STACK - CLINKER SILO TYPE I BAGHOUSE #35 \$36-3 STACK - CLINKER SILO TYPE I BAGHOUSE #33 \$37 STACK - CLINKER SILO BAGHOUSE #33 \$38 STACK - CLINKER SILO BAGHOUSE #33 \$39 STACK - CLINKER SILO BAGHOUSE #712A \$39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B \$39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C \$30-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 \$20-1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
STACK S203-B FUEL DOSING DEVICE DUST COLLECTOR STACK S21-1 STACK - PREHEATER FEED ELEVATOR S21-3 STACK - ROTORY PACKER - BH#1 S22-1 STACK - CLINKER LOADOUT STATION S22-3 STACK - ROTORY PACKER - BH#2 S23 STACK - ROTORY PACKER - BH#2 S24-1 STACK - FINISH MILL SWEEP S24-3 STACK - ROTORY PACKER - BH#3 S25 STACK - ROTORY PACKER - BH#3 S25 STACK - ROW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S27 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - BULK TRUCK LOADING STATION NORTH S30-1 STACK - BULK TRUCK LOADING STATION NORTH S30-3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-3 STACK - CLINKER DUMP HOPPER S39-A STACK - CLINKER DUMP HOPPER S39-A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C #712C S391 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S203-B FUEL DOSING DEVICE DUST COLLECTOR STACK S21-1 STACK - PREHEATER FEED ELEVATOR S21-3 STACK - ROTORY PACKER - BH#1 S22-1 STACK - CLINKER LOADOUT STATION S22-3 STACK - ROTORY PACKER - BH#2 S23 STACK - ROTORY PACKER - BH#2 S24-1 STACK - ROTORY PACKER - BH#2 S24-3 STACK - ROLL PRESS S24-1 STACK - ROTORY PACKER - BH#3 S25 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30-1 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.B. BULK LOADING STATION SOUTH S32 STACK - R.B. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER SILO BAGHOUSE #33 S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C T02-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S21-1 STACK - PREHEATER FEED ELEVATOR S21-3 STACK - ROTORY PACKER - BH#1 S22-1 STACK - CLINKER LOADOUT STATION S22-3 STACK - ROTORY PACKER - BH#2 S23 STACK - ROTORY PACKER - BH#2 S24-1 STACK - FINISH MILL SWEEP S24-3 STACK - ROTORY PACKER - BH#3 S25 STACK - ROTORY PACKER - BH#3 S26 STACK - ROTORY PACKER - BH#3 S27 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30-3 STACK - BULK TRUCK LOAD STATION NORTH S31 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-3 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-3 STACK - CLINKER DUMP HOPPER S39A STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C TOUTH TO STACK - CEMENT STORAGE SILO BAGHOUSE #712C #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C #712C S391 STACK - CEMENT STORAGE SILO BAGHOUSE #712C #712C	
\$21-3 \$TACK - ROTORY PACKER - BH#1 \$22-1 \$TACK - CLINKER LOADOUT STATION \$22-3 \$TACK - ROTORY PACKER - BH#2 \$23 \$TACK - ROTORY PACKER - BH#2 \$24-1 \$TACK - FINISH MILL SWEEP \$24-3 \$TACK - FINISH MILL SWEEP \$24-3 \$TACK - ROTORY PACKER - BH#3 \$25 \$TACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 \$26 \$TACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 \$27 \$TACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 \$29 \$TACK - RAW BLENDING SILOS BAGHOUSE #325 \$29 \$TACK - RAW BLENDING SILOS BAGHOUSE #325 \$30-1 \$TACK - RAW BLENDING SILOS STATION NORTH \$30-1 \$TACK - BULK TRUCK LOADING STATION NORTH \$31 \$TACK - R.R. BULK LOADING STATION SOUTH \$32 \$TACK - BULK TRUCK LOAD STATION #1 \$33 \$TACK - CLINKER SILO TYPE I BAGHOUSE #525 \$33 \$TACK - CLINKER SILO TYPE I BAGHOUSE #545 \$36-1 \$TACK - CLINKER SILO TYPE II BAGHOUSE #545 \$36-3 \$TACK - CLINKER SILO BAGHOUSE #33 \$37 \$TACK - CLINKER SILO BAGHOUSE #33 \$37 \$TACK - CLINKER SILO BAGHOUSE #33 \$39 \$TACK - CEMENT STORAGE SILO BAGHOUSE #712A \$39B \$TACK - CEMENT STORAGE SILO BAGHOUSE #712B \$39C \$TACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39D \$TACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39D \$TACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39D \$TACK - CEMENT STORAGE SILO BAGHOUSE #712D \$30-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 \$30-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117	
S22-1 STACK - CLINKER LOADOUT STATION S22-3 STACK - ROTORY PACKER - BH#2 S23 STACK - ROTORY PACKER - BH#2 S24-1 STACK - FINISH MILL SWEEP S24-3 STACK - ROTORY PACKER - BH#3 S25 STACK - ROTORY PACKER - BH#3 S26 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S27 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - RAW BLENDING STATION NORTH S30-1 STACK - BULK TRUCK LOADING STATION NORTH S31 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - BULK TRUCK LOAD STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-1 STACK - CLINKER SILO TYPE II BAGHOUSE #33 S37 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D S72-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03-1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117	
S22-3 STACK - ROTORY PACKER - BH#2 S23 STACK - ROLL PRESS S24-1 STACK - FINISH MILL SWEEP S24-3 STACK - ROTORY PACKER - BH#3 S25 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30-1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30-3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36-1 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36-3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C TOTO THE PROPERTY OF THE	
S23 STACK - ROLL PRESS S24 - 1 STACK - FINISH MILL SWEEP S24 - 3 STACK - ROTORY PACKER - BH#3 S25 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 - 1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 - 3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE I BAGHOUSE #545 S36 - 1 STACK - CLINKER COOLER BAGHOUSE S36 - 3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 - 1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S24 -1 STACK - FINISH MILL SWEEP S24 -3 STACK - ROTORY PACKER - BH#3 S25 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S391 STACK - CEMENT STORAGE SILO BAGHOUSE #712C	
\$24 - 3	
S25 STACK - RAW MATERIAL UNLOAD (EXCEPT STONE) BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - BULK TRUCK LOAD STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -3 STACK - CLINKER SILO BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE S37 STACK - CLINKER SILO BAGHOUSE #33 STACK - CLINKER SILO BAGHOUSE #33 STACK - CLINKER SILO BAGHOUSE S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D S202 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117	
BAGHOUSE #166 S26 STACK - RAW MATERIAL TRANSFER CONVEYORS 147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712C	
147/148 BAGHOUSE #165 S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE S37 STACK - CLINKER SILO BAGHOUSE S39 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D S39C STACK - CEMENT STORAGE SILO BAGHOUSE	
S27 STACK - RAW BLENDING SILOS BAGHOUSE #325 S29 STACK - BULK TRUCK LOADING STATION NORTH S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -3 STACK - CLINKER SILO BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D S39- STACK - CEMENT STORAGE SILO BAGHOUSE #712D STACK - CEMENT STORAGE SILO BAGHOUSE	
S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S30 -1 STACK - KILN SYSTEM BAGHOUSES #203 AND #260 S30 -3 STACK - BULK TRUCK LOAD STATION SOUTH S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
#260 \$30 -3 STACK - BULK TRUCK LOAD STATION SOUTH \$31 STACK - R.R. BULK LOADING STATION #1 \$32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 \$33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 \$36 -1 STACK - CLINKER COOLER BAGHOUSE \$36 -3 STACK - CLINKER SILO BAGHOUSE \$37 STACK - CLINKER BULMP HOPPER \$39 STACK - CEMENT STORAGE SILO BAGHOUSE #712B \$39 STACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39 STACK - CEMENT STORAGE SILO BAGHOUSE #712C \$39 STACK - CEMENT STORAGE SILO BAGHOUSE #712D \$30 STACK - CEMENT STORAGE SILO BAGHOUSE	
S31 STACK - R.R. BULK LOADING STATION #1 S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S32 STACK - CLINKER SILO TYPE I BAGHOUSE #525 S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S33 STACK - CLINKER SILO TYPE II BAGHOUSE #545 S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S36 -1 STACK - CLINKER COOLER BAGHOUSE S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S36 -3 STACK - CLINKER SILO BAGHOUSE #33 S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S37 STACK - CLINKER DUMP HOPPER S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S39A STACK - CEMENT STORAGE SILO BAGHOUSE #712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
#712A S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S39B STACK - CEMENT STORAGE SILO BAGHOUSE #712B S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
S39C STACK - CEMENT STORAGE SILO BAGHOUSE #712C S39D STACK - CEMENT STORAGE SILO BAGHOUSE #712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
#712D Z02 -1 FUGITIVE EMISSIONS - CONVEYOR 103-104, & 117 Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
Z03 -1 FUGITIVE EMISSIONS - RAW MAT.CONVEYOR 108-	
103 & OTONE HOLLER	
Z04 -1 FUGITIVE EMISSIONS - RAW MATERIAL CONVEYOR 109-110	
Z05 -1 FUGITIVE EMISSIONS - RAW MATERIAL CONVEYOR 110-112	
Z06 -2 FUGITIVE EMISSIONS - PLANT II CRUSHER	
Z08 -1 FUGITIVE EMISSIONS COAL OPERATIONS - SILOS, BELTS, CONVYS.	
Z10 -1 FUGITIVE EMISSIONS - SPECIAL CLINKER HOPPER	
Z103-1 FUGITIVE EMISSIONS - STONE UNLOADING	

DEP Auth ID: 1530474 DEP PF ID: 262830



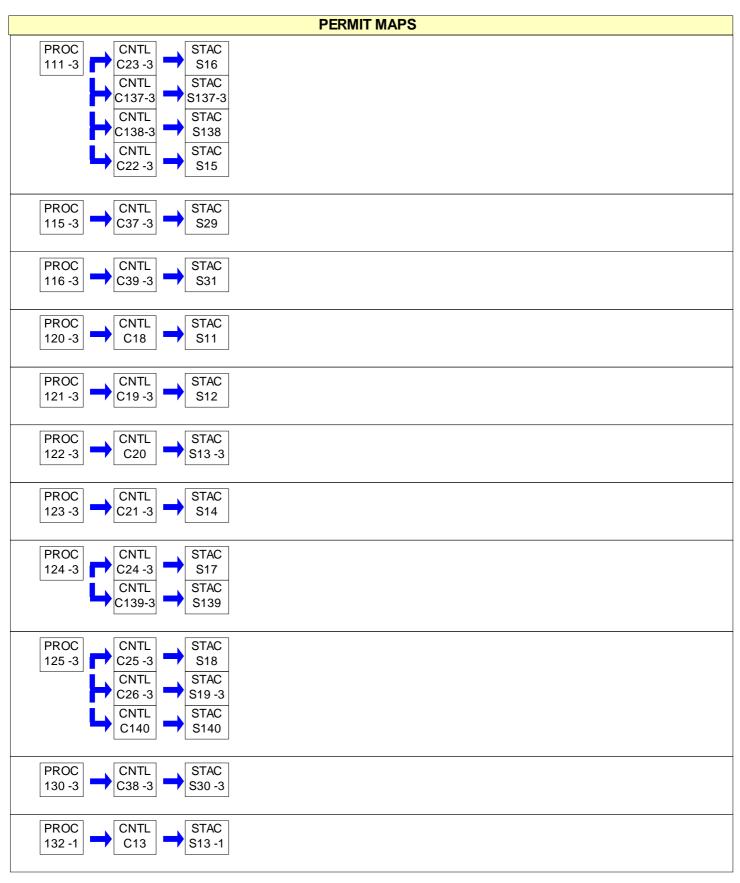


Source	ID Source Name	Capacity/Throughput	Fuel/Material
Z11 -1	FUGITIVE EMISSIONS - HAUL ROADS PLANT I		
Z12 -1	FUGITIVE EMISSIONS - HAUL ROADS HEAVY EQUIPMENT PLANT I		
Z13 -1	FUGITIVE EMISSIONS - STOCKPILES PLANT I		
Z14-1	FUGITIVE EMISSIONS - "A" FRAME PLANT 1		
Z15	FUGITIVE EMISSIONS - FK PUMP NO.2 PLANT II		
Z301	FUGITIVE EMISSIONS - EMERGENCY GENERATOR		
Z302	FUGITIVE EMISSIONS - REJECT CONVEYOR		
Z303	FUGITIVE EMISSIONS - REJECT STORAGE		
Z401	FUGITIVE EMISSIONS - DUST PILE GAS CONDITIONING TOWER		
Z501	FUGITIVE EMISSIONS - CLINKER/STONE ELEVATOR PLANT III		
Z502	FUGITIVE EMISSIONS - CLINKER ELEVATOR PLANT		
Z503	FUGITIVE EMISSIONS - SYNTHETIC GYPSUM STOCKPILE PLANT I		
Z504	FUGITIVE EMISSIONS - SYNTHETIC GYPSUM HOPPER PLANT I		
Z505	FUGITIVE EMISSIONS - SYNTHETIC GYPSUM BELYS PLANT I		
Z506	FUGITIVE EMISSIONS - SOLID FUEL/CLINKER CLEANOUT CHUTE PLT 1		
Z507	FUGITIVE EMISSIONS - CLINKER STONE BELTS PLANT III		
Z601-3	FUGITIVE EMISSIONS -GYPSUM ELEVATORS AND CONVEYORS PLANT III		
Z901	FUGITIVE EMISSIONS - HAUL ROADS PLANT III		
Z902	FUGITIVE EMISSIONS - HEAVY EQUIPMENT PLANT		



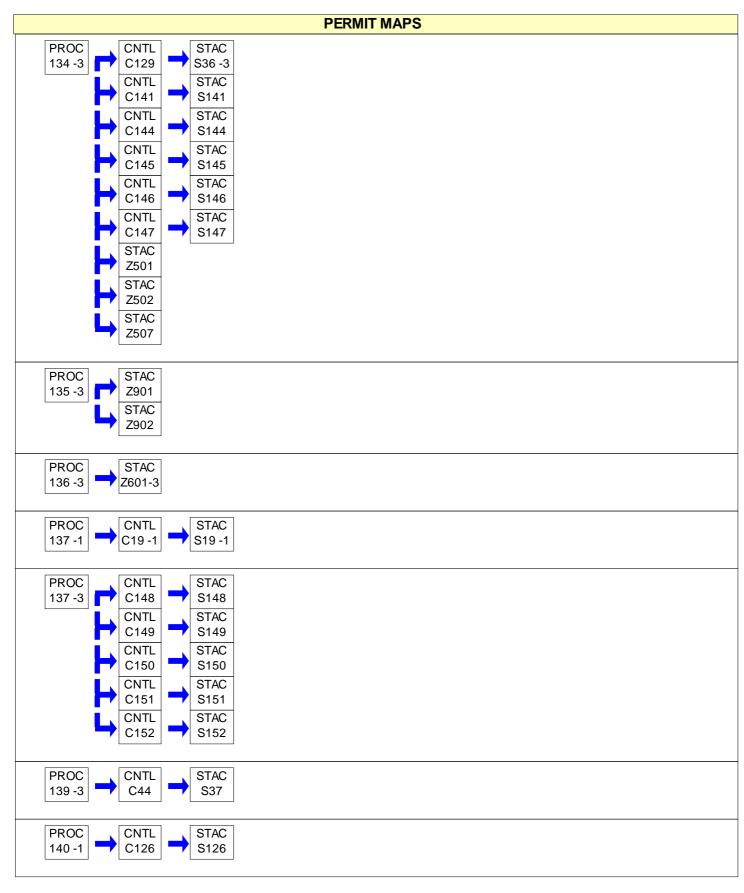






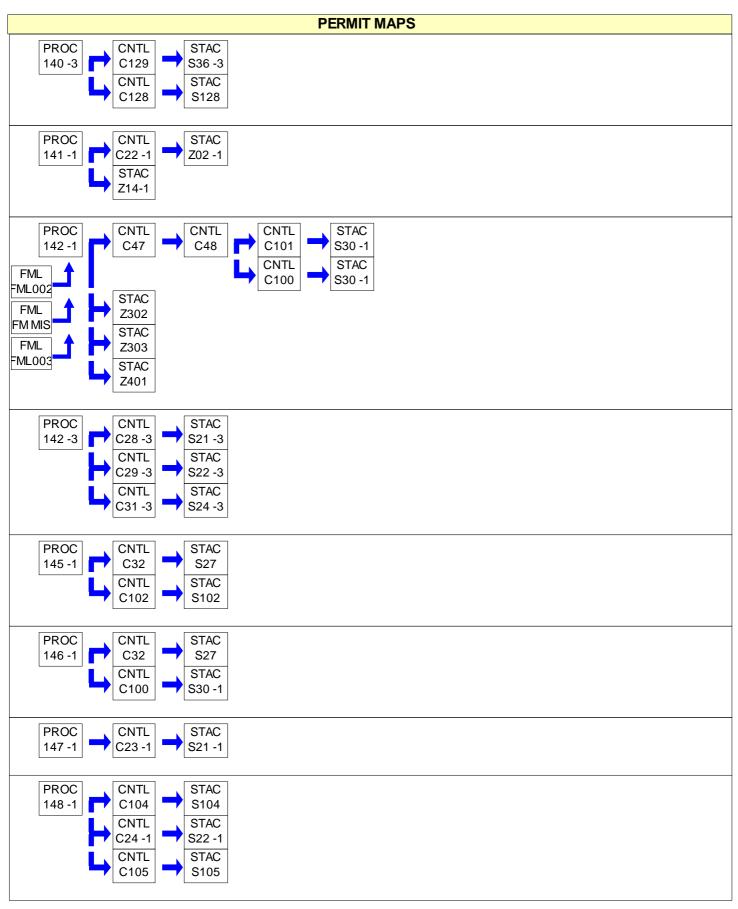






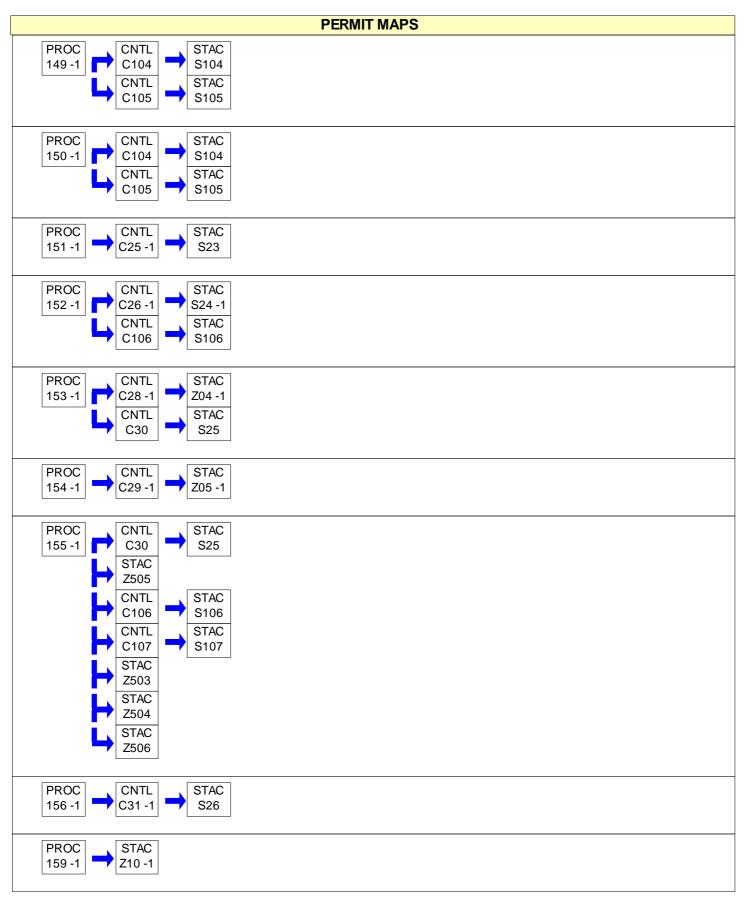






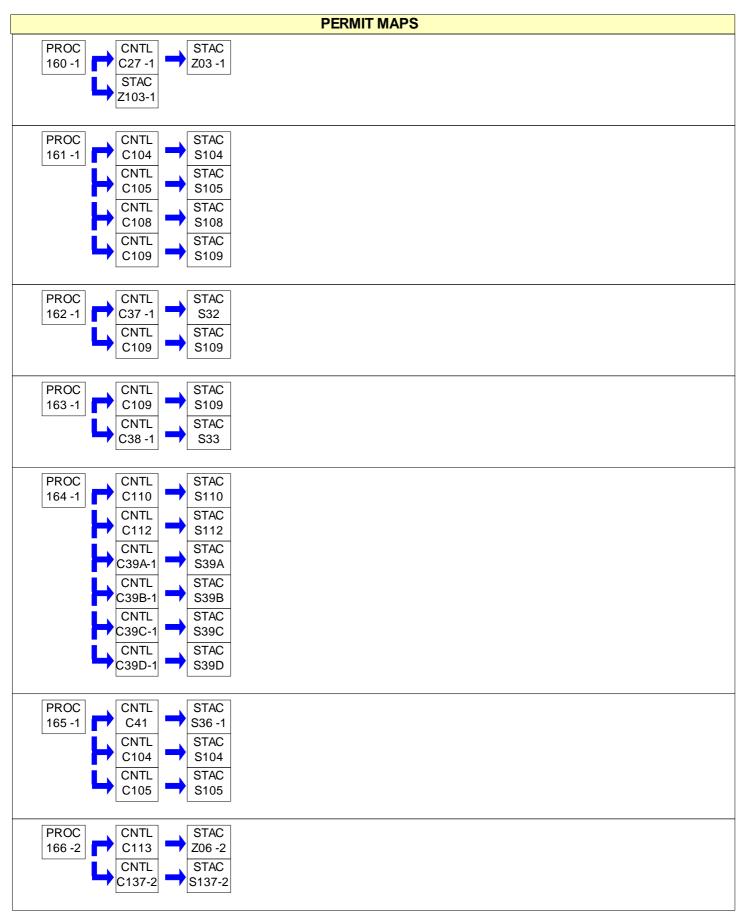






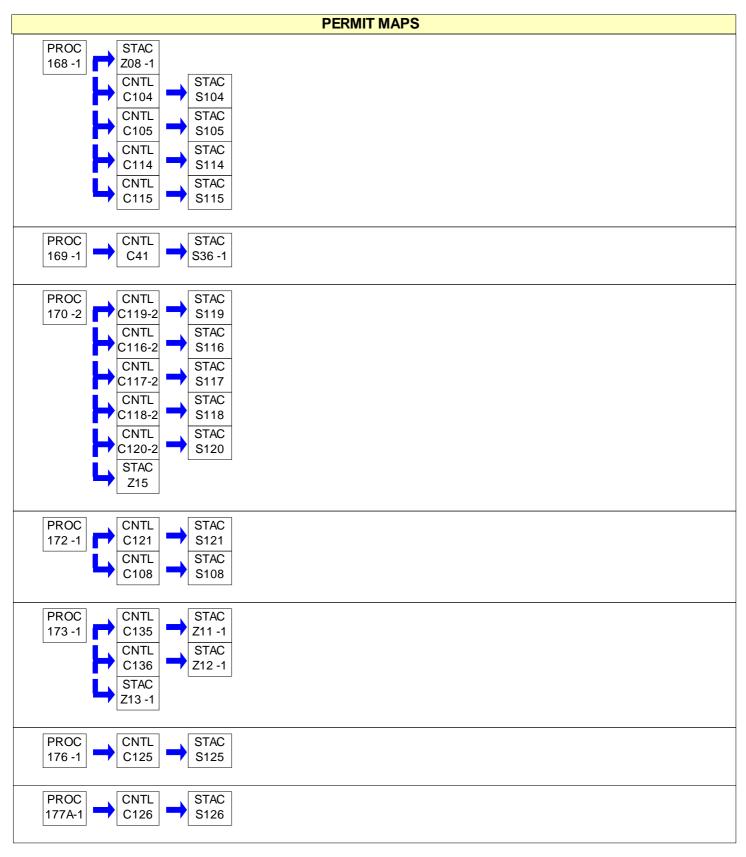






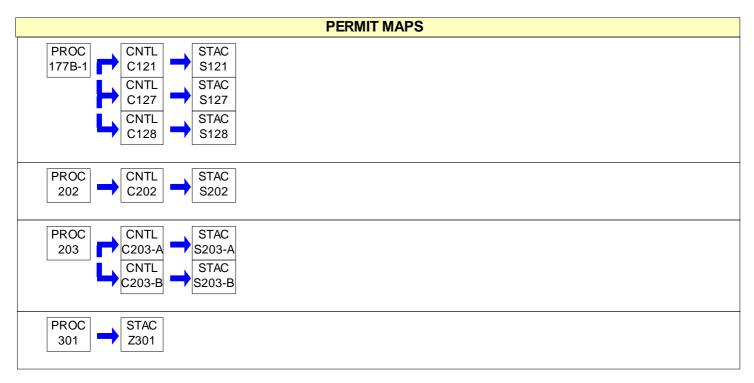
















#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]

Prohibition of Air Pollution

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#003 [25 Pa. Code § 127.512(c)(4)]

Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#004 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]

Permit Renewal

- (a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.
- (b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).
- (d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

- (a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:
 - (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
 - (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by



the Department.

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(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

- (a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:
- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
 - (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.
- (b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.
- (c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

- (a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:
 - (1) Enforcement action
 - (2) Permit termination, revocation and reissuance or modification
 - (3) Denial of a permit renewal application
- (b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.
- (c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.





#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

- (a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.
- (b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

- (a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.
- (b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:
- (1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.
- (2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.
- (3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.
- (d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]

Operating Permit Application Review by the EPA

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].





#014 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

[25 Pa. Code § 127.512(b)] #017

Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.



- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).
- (e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.
- (1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.
- (2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.
- (3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

- (a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:
 - (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

- (b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:
- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM10 from a single source during the term of the permit and 3.0 tons of PM10 at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:
- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.





- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.
- (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
- (3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.
- (e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

- (a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.
- (b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the







phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division Air, RCRA and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

- (a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.
- (b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

- (a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:
 - (1) The date, place (as defined in the permit) and time of sampling or measurements.
 - (2) The dates the analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.







- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.
- (b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.
- (c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

- (a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.
- (b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.
- (c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.
- (d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]

Compliance Certification

- (a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:
- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.
- (b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.





#027 [25 Pa. Code § 127.3]

Operational Flexibility

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

- (a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).
- (b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:
- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.
- (2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.
- (c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.
- (d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.







- (e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.
- (f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:
- (1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.
- (2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

- (a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:
 - (1) The applicable requirements are included and are specifically identified in this permit.
- (2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.
- (b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.
 - (2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.
 - (4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.
- (c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]

Reporting

- (a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.
- (b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#032 [25 Pa. Code §135.4]

Report Format

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.







I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

- (a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:
 - (1) Construction or demolition of buildings or structures.
 - (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
 - (4) Clearing of land.
 - (5) Stockpiling of materials.
 - (6) Open burning operations.
 - (7) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (9) Sources and classes of sources other than those identified in paragraphs (1) (8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) the emissions are of minor significance with respect to causing air pollution; and
- (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Section C - Condition #001, (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]

Limitations

MALODOR EMISSIONS

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]

Limitations

VISIBLE EMISSIONS

- (a) A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:
 - (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
 - (2) Equal to or greater than 60% at any time.

005 [25 Pa. Code §123.42]

Exceptions

VISIBLE EMISSIONS

(a) The limitations of SECTION C - Condition #004 shall not apply to a visible emission in any of the following instances:







- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in SECTION C Condition #001.

Fuel Restriction(s).

006 [25 Pa. Code §123.22]

Combustion units

Commercial fuel oil.

(i) Except as specified in subparagraphs (ii) and (iii), a person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in nonair basin areas if the commercial fuel oil contains sulfur in excess of the applicable maximum allowable sulfur content set forth in the following table:

Maximum Allowable Sulfur Content Expressed as Parts per Million (ppm) by Weight or Percentage by Weight

Grades Commercial Fuel Oil

(Consistent with ASTM D396)	Through	Beginning
	August 31, 2020	September 1, 2020
No. 2 and lighter oil	500 ppm (0.05%)	15 ppm (0.0015%)
No. 4 oil	2,500 ppm 0.25%)	2,500 ppm (0.25%)
No. 5. No. 6 and heavier oil	5.000 ppm (0.5%)	5.000 ppm (0.5%)

(ii) Commercial fuel oil that was stored in this Commonwealth by the ultimate consumer prior to September 1, 2020, which met the applicable maximum allowable sulfur content for commercial fuel oil through August 31, 2020, in subparagraph (i) at the time it was stored, may be used by the ultimate consumer in this Commonwealth on and after September 1, 2020.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §123.43]

Measuring techniques

- (a) Visible emissions may be measured using either of the following:
- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

008 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

All sampling, testing and analysis performed in compliance with the requirements of any section of the permit shall be done in accordance with SECTION B, General Title V Requirement #023.

009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

To demonstrate compliance with the sulfur limitations in fuel oils, the permittee shall comply with the following requirements:

(a) The permittee shall perform an analysis of each shipment of fuel oil delivered to the facility. A representative sample shall be obtained and tested. The fuel characteristics to be determined shall include, but not be limited to the following:

(1) The heating value (Btu/Gal)







- (2) The percent (%) sulfur content, by weight
- (3) The percent (%) ash content, by weight
- (b) Testing shall be done in accordance with reference test method ASTM D-129-64 and 25 Pa. Code, Chapter 139. (b) If the supplier of the fuel can provide certification of the values of the fuel characteristics mentioned in section (a), the permittee may substitute such certifications (signed and notarized by a responsible official) for the analysis of a representative sample.
- (c) If the permittee has entered into a legally binding contract with the supplier(s) of the commercial fuel oil indicating that the values of the fuel characteristics mentioned in paragraph (a) will not exceed the allowable limits of 25 Pa. Code 123.22, the permittee may substitute such contract for the analysis of a representative sample.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.7]

Subpart A--General Provisions

Performance testing requirements.

The permittee shall comply with the applicable performance testing requirements found in 40 CFR 63.7.

III. MONITORING REQUIREMENTS.

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the pressure drop (for sources not handled by an opacity CEMS) across the fabric collectors or other devices used to control the emissions of particulate at the facility. At a minimum these recordings shall be taken once per week, while the sources and collectors are in operation.

012 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

- (a) If requested by the Department, the permittee shall perform stack tests, in accordance with the provisions of the most current publication of DEP Source Testing Manual and Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, within the time frame specified by the Department.
- (b) The testing will be necessary to verify emissions, including determining the correct emission fee, malfunctions, or compliance with any applicable requirements.

013 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

VISIBLE AND FUGITIVE EMISSIONS

Visible emissions in excess of the limits stated in Section C, Condition #004.

o Visible emissions may be measured according to the methods specified in SECTION C - Condition #007 during the weekly perimeter inspection. If visible emissions are observed past the facility's perimeter during the weekly perimeter inspection or at any time by plant personnel in excess of 0%, the event must be reported to the manager and the Department within 4 hours of being observed. If the emissions event is related to a control device and is not corrected in a timely manner, the permittee shall arrange a Method 9 evaluation.

014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee will comply with the applicable Opacity Monitoring Requirements as outlined in SECTION C, CONDITION #039 of the permit.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.8]

Subpart A--General Provisions

Monitoring requirements.







The owner or operator of an affected source shall maintain and operate each Continuous Monitoring System (CEMS) as specified in 40 CFR 63.8.

The sources subject to these regulations are Source ID No. 142-1 and 169-1.

IV. RECORDKEEPING REQUIREMENTS.

016 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Recordkeeping and reporting requirements are as follows:

- (a) The permittee shall maintain files containing all records and other data that are required to be collected pursuant to the various provisions of this Operating Permit. The files shall include, but not be limited to: all air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit.
- (b) All CEM reports shall be submitted to the Department within thirty (30) days after each quarter but no later than the time frame established in the Department's latest Continuous Source Monitoring Manual. The Department reserves the right to require the report submissions in other formats acceptable to the Department.

017 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

All records, reports and analyses results generated in compliance with the requirements of any section of this permit shall be maintained in accordance with SECTION B, General Title V Requirement #024, and shall be made available to the Department upon written or verbal request at a reasonable time.

018 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The facility shall record the results of the inspections of the control devices. The results of the inspection shall be recorded on a weekly basis, maintained on site, and made available to the Department upon request.

019 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

- (a) The permittee shall, at the conclusion of each weekly inspection, required by SECTION C CONDITION #013, record all occurances of fugitive or visible emissions which deviate from the limitations in SECTION C Conditions #002 and #004.
- (b) The permittee shall record any and all corrective actions taken to abate each recorded deviation or prevent future occurances.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10]

Subpart A--General Provisions

Recordkeeping and reporting requirements.

The owner or operator of an affected source shall comply with the applicable recordkeeping and reporting requirements contained in 40 CFR 63.10(a)-(e).

V. REPORTING REQUIREMENTS.

021 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

On a semi-annual basis, the permittee shall compile a report of all logged instances of exceedances of the visible emission limitations, (for sources not handled by an opacity CEMS), that occurred during the previous six (6) months, to be submitted to the Department within thirty (30) days of the close of the six month period. If no exceedances were noted the report shall remain on site and made available to the Department upon request.







022 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This facility is subject to the requirements of the NESHAP for the Portland Cement Plants 40 CFR 63 Subpart LLL, and shall comply with all applicable requirements of this Subpart.

40 CFR 63 Subpart A §63.10 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Enforcement & Compliance Assurance Division Air, RCRA and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, PA 19103-2852

023 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) Malfunctions which occur at the Title V facility and which pose an imminent danger to public health, safety, welfare and the environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.
- (b) Unless otherwise required by this permit, any other malfunction that results in an emission exceedeance that is not subject to the reporting reuirements of Condition (a) above, shall be reported to the Department, in writing, within five (5) days of discovery of the malfunction.

024 [25 Pa. Code §127.513]

Compliance certification.

The reporting period for the Certificate of Compliance required by SECTION B - Condition #26, shall be for the previous calendar year, and it shall be submitted within 60 days after the specified period but no later than March 1st.

025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.5]

Subpart A--General Provisions

Construction and reconstruction.

No person may construct a new affected source or reconstruct an affected source subject to 40 CFR Part 63, Subpart LLL, or reconstruct a source such that the source becomes an affected source subject to the standard, without notifying the Administrator of the intended construction or reconstruction. The notification shall be submitted in accordance with the procedures in 40 CFR 63.9(b) and shall include all the information required for an application for approval of construction or reconstruction as specified in 40 CFR 63.5(d). For major sources, the application for approval of construction or reconstruction may be used to fulfill the notification requirements of this paragraph.

026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.9]

Subpart A--General Provisions

Notification requirements.

The owner or operator shall comply with the notification requirements contained in 40 CFR 63.9(b), (e)-(j).

VI. WORK PRACTICE REQUIREMENTS.

027 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

(a) Aperson responsible for any source specified in SECTION C - Condition #001 shall take all reasonable actions to





prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
 - (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

028 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) In order to prevent fugitive particulate matter resulting from the use of in-plant roads from becoming airborne, the company shall adhere to the following plan:
 - (1) All paved in-plant roads shall be swept a minimum of two (2) times per week, weather permitting.
 - (2) The company shall keep a log of the dates of road sweeping or cleaning.

029 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) All fabric collectors must be equipped with a device for monitoring the pressure differential across the collectors.
- (b) Whenever the sources are in operation, the control devices for these sources shall be in operation. On a weekly basis, the control devices for these sources shall be inspected. The inspection shall consist of a visible inspection to insure compliance with SECTION C Condition #004.
- (1) The range of the pressure differential will be the normal range based on operational history consistent with normal and proper operation of the baghouse.
- (c) The company shall keep on hand a sufficient quantity of spare fabric collector bags for all control devices that may require immediate replacement due to deterioration resulting from routine operation of the sources and fabric collectors.

030 [25 Pa. Code §129.14]

Open burning operations

AIR BASIN

- (a) Air basins. No person may permit the open burning of material in an air basin.
- (b) Exceptions: The requirements of subsection (a) do not apply where the open burning operations result from:
- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
 - (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
 - (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (5) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of such structure.
 - (6) A fire set solely for recreational or ceremonial purposes.
 - (7) A fire set solely for cooking food.
- (c) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:
 - (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.





Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

- (2) Subsection (a) notwithstanding, clearing and grubbing wastes may be burned in a basin subject to the following requirements:
 - (i) Air curtain destructors shall be used when burning clearing and grubbing wastes.
- (ii) Each proposed use of air curtain destructors shall be reviewed and approved by the Department in writing with respect to equipment arrangement, design and existing environmental conditions prior to commencement of burning. Proposals approved under this subparagraph need not obtain plan approval or operating permits under Chapter 127 (relating to construction modification, reactivation and operation of sources).
- (iii) Approval for use of an air curtain destructor at one site may be granted for a specified period not to exceed 3 months, but may be extended for additional limited periods upon further approval by the Department.
- (iv) The Department reserves the right to rescind approval granted if a determination by the Department indicates that an air pollution problem exists.
- (3) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

VII. ADDITIONAL REQUIREMENTS.

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1340]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing

What parts of my plant does this subpart cover?

- (a) The provisions of this subpart apply to each new and existing portland cement plant which is a major source or an area source as defined in § 63.2.
- (b) The affected sources subject to this subpart are:
- (1) Each kiln including alkali bypasses and inline coal mills, except for kilns that burn hazardous waste and are subject to and regulated under subpart EEE of this part;
 - (i) Source ID No. 142-1 (includes inline mill).
 - (2) Each clinker cooler at any portland cement plant;
 - (i) Source ID No. 169-1.
 - (3) Each raw mill at any portland cement plant;
 - (4) Each finish mill at any portland cement plant;
 - (i) Source ID No. 110-3, 120-3, 121-3, 122-3, 123-3, 151-1, 152-1.
 - (5) Each raw material dryer at any portland cement plant;
 - (6) Each raw material, clinker, or finished product storage bin at any portland cement plant that is a major source;
 - (i) Source ID No. 111-3, 124-3, 125-3, 134-3, 145-1, 146-1, 149-1, 150-1, 159-1, 160-1, 162-1, 163-1, 164-1, 170-2, 202.
- (7) Each conveying system transfer point including those associated with coal preparation used to convey coal from the mill to the kiln at any portland cement plant that is a major source;
 - (i) Source ID No. 136-3, 140-1, 140-3, 141-1, 147-1, 153-1, 154-1, 156-1, 161-1, 165-1, 168-1, 172-1, 177A-1, 177B-1.
- (8) Each bagging and bulk loading and unloading system at any portland cement plant that is a major source; and
 - (i) Source ID No. 115-3, 116-3, 130-3, 132-1, 137-1, 137-3, 139-3, 142-3, 148-1, 155-1, 159-1, 176-1.
- (9) Each open clinker storage pile at any portland cement plant.
 - (i) Source ID No. 135-3 and 173-1. (Open clinker storage piles only).
- (c) Onsite sources that are subject to standards for nonmetallic mineral processing plants in subpart OOO, part 60 of this chapter are not subject to this subpart. Crushers are not covered by this subpart regardless of their location.
 - (i) Source ID No. 166-2.
- (d) If you are subject to any of the provisions of this subpart you are also subject to Title V permitting requirements.

[75 FR 55051, Sept. 9, 2010, as amended at 78 FR 10036, Feb. 12, 2013]





032 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1341]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Definitions.

All terms used in this subpart that are not defined in this section have the meaning given to them in the CAA and in subpart A of this part.

Alkali bypass means a duct between the feed end of the kiln and the preheater tower through which a portion of the kiln exit gas stream is withdrawn and quickly cooled by air or water to avoid excessive buildup of alkali, chloride and/or sulfur on the raw feed. This may also be referred to as the "kiln exhaust gas bypass".

Bagging system means the equipment which fills bags with portland cement.

Bin means a manmade enclosure for storage of raw materials, clinker, or finished product prior to further processing at a portland cement plant.

Clinker means the product of the process in which limestone and other materials are heated in the kiln and is then ground with gypsum and other materials to form cement.

Clinker cooler means equipment into which clinker product leaving the kiln is placed to be cooled by air supplied by a forced draft or natural draft supply system.

Continuous monitor means a device which continuously samples the regulated parameter specified in § 63.1350 of this subpart without interruption, evaluates the detector response at least once every 15 seconds, and computes and records the average value at least every 60 seconds, except during allowable periods of calibration and except as defined otherwise by the continuous emission monitoring system performance specifications in appendix B to part 60 of this chapter.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a facility. Conveying systems include but are not limited to the following: feeders, belt conveyors, bucket elevators and pneumatic systems.

Conveying system transfer point means a point where any material including but not limited to feed material, fuel, clinker or product, is transferred to or from a conveying system, or between separate parts of a conveying system.

Crusher means a machine designed to reduce large rocks from the quarry into materials approximately the size of gravel.

Dioxins and furans (D/F) means tetra-, penta-, hexa-, hepta-, and octa-chlorinated dibenzo dioxins and furans.

Facility means all contiguous or adjoining property that is under common ownership or control, including properties that are separated only by a road or other public right-of-way.

Feed means the prepared and mixed materials, which include but are not limited to materials such as limestone, clay, shale, sand, iron ore, mill scale, cement kiln dust and flyash, that are fed to the kiln. Feed does not include the fuels used in the kiln to produce heat to form the clinker product.

Finish mill means a roll crusher, ball and tube mill or other size reduction equipment used to grind clinker to a fine powder. Gypsum and other materials may be added to and blended with clinker in a finish mill. The finish mill also includes the air separator associated with the finish mill.

Greenfield kiln, in-line kiln/raw mill, or raw material dryer means a kiln, in-line kiln/raw mill, or raw material dryer for which construction is commenced at a plant site (where no kilns and no in-line kiln/raw mills were in operation at any time prior to March 24, 1998) after March 24, 1998.

Hazardous waste is defined in § 261.3 of this chapter.





In-line coal mill means a coal mill using kiln exhaust gases in their process. A coal mill with a heat source other than the kiln or a coal mill using exhaust gases from the clinker cooler is not an in-line coal mill.

In-line kiln/raw mill means a system in a portland cement production process where a dry kiln system is integrated with the raw mill so that all or a portion of the kiln exhaust gases are used to perform the drying operation of the raw mill, with no auxiliary heat source used. In this system the kiln is capable of operating without the raw mill operating, but the raw mill cannot operate without the kiln gases, and consequently, the raw mill does not generate a separate exhaust gas stream.

Kiln means a device, including any associated preheater or precalciner devices, inline raw mills, inline coal mills or alkali bypasses that produces clinker by heating limestone and other materials for subsequent production of portland cement. Because the inline raw mill and inline coal mill are considered an integral part of the kiln, for purposes of determining the appropriate emissions limit, the term kiln also applies to the exhaust of the inline raw mill and the inline coal mill.

Kiln exhaust gas bypass means alkali bypass.

Monovent means an exhaust configuration of a building or emission control device (e. g. positive pressure fabric filter) that extends the length of the structure and has a width very small in relation to its length (i. e., length to width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.

New brownfield kiln, in-line kiln raw mill, or raw material dryer means a kiln, in-line kiln/raw mill or raw material dryer for which construction is commenced at a plant site (where kilns and/or in-line kiln/raw mills were in operation prior to March 24, 1998) after March 24, 1998.

New source means any source that commenced construction or reconstruction after May 6, 2009, for purposes of determining the applicability of the kiln, clinker cooler and raw material dryer emissions limits for mercury, PM, THC, and HCI.

One-minute average means the average of thermocouple or other sensor responses calculated at least every 60 seconds from responses obtained at least once during each consecutive 15 second period.

Open clinker storage pile means a clinker storage pile on the ground for more than three days that is not completely enclosed in a building or structure.

Operating day means any 24-hour period beginning at 12:00 midnight during which the kiln produces any amount of clinker. For calculating the 30-day rolling average emissions, kiln operating days do not include the hours of operation during startup or shutdown.

Portland cement plant means any facility manufacturing portland cement.

Raw material dryer means an impact dryer, drum dryer, paddle-equipped rapid dryer, air separator, or other equipment used to reduce the moisture content of feed or other materials.

Raw mill means a ball and tube mill, vertical roller mill or other size reduction equipment, that is not part of an in-line kiln/raw mill, used to grind feed to the appropriate size. Moisture may be added or removed from the feed during the grinding operation. If the raw mill is used to remove moisture from feed materials, it is also, by definition, a raw material dryer. The raw mill also includes the air separator associated with the raw mill.

Rolling average means the weighted average of all data, meeting QA/QC requirements or otherwise normalized, collected during the applicable averaging period. The period of a rolling average stipulates the frequency of data averaging and reporting. To demonstrate compliance with an operating parameter a 30-day rolling average period requires calculation of a new average value each operating day and shall include the average of all the hourly averages of the specific operating parameter. For demonstration of compliance with an emissions limit based on pollutant concentration a 30-day rolling average is comprised of the average of all the hourly average concentrations over the previous 30 operating days. For demonstration of compliance with an emissions limit based on lbs-pollutant per production unit the 30-day rolling average is calculated by summing the hourly mass emissions over the previous 30 operating days, then dividing that sum by the





total production during the same period.

Run average means the average of the recorded parameter values for a run.

Shutdown means the cessation of kiln operation. Shutdown begins when feed to the kiln is halted and ends when continuous kiln rotation ceases.

Sorbent means activated carbon, lime, or any other type of material injected into kiln exhaust for the purposes of capturing and removing any hazardous air pollutant.

Startup means the time from when a shutdown kiln first begins firing fuel until it begins producing clinker. Startup begins when a shutdown kiln turns on the induced draft fan and begins firing fuel in the main burner. Startup ends when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 60 percent of the kiln design limitation rate, whichever occurs first.

TEQ means the international method of expressing toxicity equivalents for dioxins and furans as defined in U.S. EPA, Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and dibenzofurans (CDDs and CDFs) and 1989 Update, March 1989. The 1989 Toxic Equivalency Factors (TEFs) used to determine the dioxin and furan TEQs are listed in Table 2 to subpart LLL of Part 63.

Total organic HAP means, for the purposes of this subpart, the sum of the concentrations of compounds of formaldehyde, benzene, toluene, styrene, m-xylene, p-xylene, o-xylene, acetaldehyde, and naphthalene as measured by EPA Test Method 320 or Method 18 of appendix A to this part or ASTM D6348-03[1] or a combination of these methods, as appropriate. If measurement results for any pollutant are reported as below the method detection level (e.g., laboratory analytical results for one or more sample components are below the method defined analytical detection level), you must use the method detection level as the measured emissions level for that pollutant in calculating the total organic HAP value. The measured result for a multiple component analysis (e.g., analytical values for multiple Method 18 fractions) may include a combination of method detection level data and analytical data reported above the method detection level. The owner or operator of an affected source may request the use of other test methods to make this determination under paragraphs 63.7(e)(2)(ii) and (f) of this part.

Totally enclosed conveying system transfer point means a conveying system transfer point that is enclosed on all sides, top, and bottom.

[64 FR 31925, June 14, 1999, as amended at 67 FR 16619, Apr. 5, 2002; 75 FR 55051, Sept. 9, 2010; 78 FR 10037, Feb. 12, 2013; 80 FR 44778, July 27, 2015; 83 FR 35132, July 25, 2018]

033 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1342]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Standards: General.

Table 1 to this subpart provides cross references to the 40 CFR part 63, subpart A, general provisions, indicating the applicability of the general provisions requirements to subpart LLL.

[71 FR page 76549, Dec. 20, 2006]

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1343]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing

What standards apply to my kilns, clinker coolers, raw material dryers, and open clinker piles?

Subsections (a), (b), and (c) applies. The information in Table 1 for existing kilns, existing clinker coolers, existing raw material dryers, and existing finish mills applies.

Table 1—Emissions Limits for Kilns, Clinker Coolers, Raw Material Dryers, Raw and Finish Mills







(1) If your source is a (an): Existing Kiln, And the operating mode is: Normal Operation, And if is located at a: Major Source,

Your emissions limits are: The oxygen correction factor is:

 PM[1] 0.07, lb/ton clinker
 NA

 D/F[2] 0.2, ng/ds
 7%

 Mercury 55, (TEQ)
 NA

 THC[3][4] 24, lb/MM tons clinker ppmvd
 7%

(2) If your source is a (an): Existing Kiln, And the operating mode is: Normal Operation, And if is located at a: Major Source, Your emissions limits are:

HCI 3, ppmvd 7%

(3) If your source is a (an): Existing Kiln, And the operating mode is: Startup and shutdown, And if is located at a: Major Source,

Your emission limits are:

Work practices (63.1346(g)), NA NA.

- [1] The initial and subsequent PM performance tests are performed using Method 5 or 5I and consist of three test runs.
- [2] If the average temperature at the inlet to the first PM control device (fabric filter or electrostatic precipitator) during the D/F performance test is 400 °F or less this limit is changed to 0.40 ng/dscm (TEQ).
- [3] Measured as propane.
- [4] Any source subject to the 24 ppmvd THC limit may elect to meet an alternative limit of 12 ppmvd for total organic HAP.
- (a) General. The provisions in this section apply to each kiln and any alkali bypass associated with that kiln, clinker cooler, raw material dryer, and open clinker storage pile. All D/F, HCl, and total hydrocarbon (THC) emissions limit are on a dry basis. The D/F, HCl, and THC limits for kilns are corrected to 7 percent oxygen. All THC emissions limits are measured as propane. Standards for mercury and THC are based on a rolling 30-day average. If using a CEMS to determine compliance with the HCl standard, this standard is based on a rolling 30-day average. You must ensure appropriate corrections for moisture are made when measuring flow rates used to calculate mercury emissions. The 30-day period means 30 consecutive kiln operating days excluding periods of startup and shutdown. All emissions limits for kilns, clinker coolers, and raw material dryers currently in effect that are superseded by the limits below continue to apply until the compliance date of the limits below, or until the source certifies compliance with the limits below, whichever is earlier.
- (b) Kilns, clinker coolers, raw material dryers, raw mills, and finish mills.
 - (1) The emissions limits for these sources are shown in Table 1.
- (2) When there is an alkali bypass and/or an inline coal mill with a separate stack associated with a kiln, the combined PM emissions from the kiln and the alkali bypass stack and/or the inline coal mill stack are subject to the PM emissions limit. Existing kilns that combine the clinker cooler exhaust and/or alkali bypass and/or coal mill exhaust with the kiln exhaust and send the combined exhaust to the PM control device as a single stream may meet an alternative PM emissions limit. This limit is calculated using Equation 1 of this section:

 $PMalt = (0.0060 \times 1.65)(Qk + Qc + Qab + Qcm)/(7000)$ (Eq. 1)

Where:

PMalt = Alternative PM emission limit for commingled sources.

0.006 = The PM exhaust concentration (gr/dscf) equivalent to 0.070 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined.

1.65 = The conversion factor of ton feed per ton clinker.

Qk = The exhaust flow of the kiln (dscf/ton feed).





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Qc = The exhaust flow of the clinker cooler (dscf/ton feed).

Qab = The exhaust flow of the alkali bypass (dscf/ton feed).

Qcm = The exhaust flow of the coal mill (dscf/ton feed).

7000 = The conversion factor for grains (gr) per lb.

For new kilns that combine kiln exhaust and clinker cooler gas the limit is calculated using the Equation 2 of this section:

 $PMalt = (0.0020 \times 1.65)(Qk + Qc + Qab + Qcm)/(7000) (Eq. 2)$

Where:

PM alt = Alternative PM emission limit for commingled sources.

0.002 = The PM exhaust concentration (gr/dscf) equivalent to 0.020 lb per ton clinker where clinker cooler and kiln exhaust gas are not combined.

1.65 = The conversion factor of ton feed per ton clinker.

Qk = The exhaust flow of the kiln (dscf/ton feed).

Qc = The exhaust flow of the clinker cooler (dscf/ton feed).

Qab = The exhaust flow of the alkali bypass (dscf/ton feed).

Qcm = The exhaust flow of the coal mill (dscf/ton feed).

7000 = The conversion factor for gr per lb.

- (c) Open clinker storage pile. The owner or operator of an open clinker storage pile must prepare, and operate in accordance with, the fugitive dust emissions control measures, described in their operation and maintenance plan (see §63.1347 of this subpart), that is appropriate for the site conditions as specified in paragraphs (c)(1) through (3) of this section. The operation and maintenance plan must also describe the measures that will be used to minimize fugitive dust emissions from piles of clinker, such as accidental spillage, that are not part of open clinker storage piles.
- (1) The operation and maintenance plan must identify and describe the location of each current or future open clinker storage pile and the fugitive dust emissions control measures the owner or operator will use to minimize fugitive dust emissions from each open clinker storage pile.
- (2) For open clinker storage piles, the operations and maintenance plan must specify that one or more of the following control measures will be used to minimize to the greatest extent practicable fugitive dust from open clinker storage piles: Locating the source inside a partial enclosure, installing and operating a water spray or fogging system, applying appropriate chemical dust suppression agents, use of a wind barrier, compaction, use of tarpaulin or other equally effective cover or use of a vegetative cover. You must select, for inclusion in the operations and maintenance plan, the fugitive dust control measure or measures listed in this paragraph that are most appropriate for site conditions. The plan must also explain how the measure or measures selected are applicable and appropriate for site conditions. In addition, the plan must be revised as needed to reflect any changing conditions at the source.
- (3) Temporary piles of clinker that result from accidental spillage or clinker storage cleaning operations must be cleaned up within 3 days.

[78 FR 10037, Feb. 12, 2013, as amended at 80 FR 44779, July 27, 2015; 83 FR 35132, July 25, 2018]

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1345]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing

Emissions limits for affected sources other than kilns; in-line kiln/raw mills; clinker coolers; new and reconstructed raw material dryers; and raw and finish mills, and open clinker piles.

The owner or operator of each new or existing raw material, clinker, or finished product storage bin; conveying system transfer point; bagging system; and bulk loading or unloading system; and each existing raw material dryer, at a facility which is a major source subject to the provisions of this subpart must not cause to be discharged any gases from these affected sources which exhibit opacity in excess of ten percent.

[75 FR page 55054, Sept. 9, 2010]





036 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1347]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Operation and maintenance plan requirements.

- (a) You must prepare, for each affected source subject to the provisions of this subpart, a written operations and maintenance plan. The plan must be submitted to the Administrator for review and approval as part of the application for a part 70 permit and must include the following information:
- (1) Procedures for proper operation and maintenance of the affected source and air pollution control devices in order to meet the emissions limits and operating limits, including fugitive dust control measures for open clinker piles of §§63.1343, 63.1345, and 63.1346. Your operations and maintenance plan must address periods of startup and shutdown.
 - (2) Corrective actions to be taken when required by paragraph §63.1350(f)(3);
- (3) Procedures to be used during an inspection of the components of the combustion system of each kiln and each inline kiln raw mill located at the facility at least once per year.
- (b) Failure to comply with any provision of the operations and maintenance plan developed in accordance with this section is a violation of the standard.

[75 FR 55054, Sept. 9, 2010, as amended at 78 FR 10040, Feb. 12, 2013; 80 FR 44781, July 27, 2015]

037 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1348]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Compliance requirements.

(a) Initial Performance Test Requirements. For an affected source subject to this subpart, you must demonstrate compliance with the emissions standards and operating limits by using the test methods and procedures in §§ 63.1349 and 63.7.

Any affected source that was unable to demonstrate compliance before the compliance date due to being idled, or that had demonstrated compliance but was idled during the normal window for the next compliance test, must demonstrate compliance within 180 days after coming out of the idle period. Any cement kiln that has been subject to the requirements of subpart CCCC or subpart DDDD of 40 CFR Part 60, and is now electing to cease burning nonhazardous solid waste and become subject to this subpart, must meet all the initial compliance testing requirements each time it becomes subject to this subpart, even if it was previously subject to this subpart.

Note to paragraph (a):

The first day of the 30 operating day performance test is the first day after the compliance date following completion of the field testing and data collection that demonstrates that the CPMS or CEMS has satisfied the relevant CPMS performance evaluation or CEMS performance specification (e.g., PS 2, 12A, or 12B) acceptance criteria. The performance test period is complete at the end of the 30th consecutive operating day. See § 63.1341 for definition of operating day and § 63.1348(b)(1) for the CEMS operating requirements. The source has the option of performing the compliance test earlier then the compliance date if desired.

- (1) PM Compliance. If you are subject to limitations on PM emissions under § 63.1343(b), you must demonstrate compliance with the PM emissions standards by using the test methods and procedures in § 63.1349(b)(1).
- (2) Opacity Compliance. If you are subject to the limitations on opacity under § 63.1345, you must demonstrate compliance with the opacity emissions standards by using the performance test methods and procedures in § 63.1349(b)(2). Use the maximum 6-minute average opacity exhibited during the performance test period to determine whether the affected source is in compliance with the standard.
- (3) D/F compliance.
- (i) If you are subject to limitations on D/F emissions under § 63.1343(b), you must demonstrate initial compliance with the D/F emissions standards by using the performance test methods and procedures in § 63.1349(b)(3). The owner or





operator of a kiln with an in-line raw mill must demonstrate initial compliance by conducting separate performance tests while the raw mill is operating and the raw mill is not operating. Determine the D/F TEQ concentration for each run and calculate the arithmetic average of the TEQ concentrations measured for the three runs to determine continuous compliance. entrations measured for the three runs to determine continuous compliance.

- (ii) If you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance with the temperature operating limits specified in § 63.1346 by using the performance test methods and procedures in § 63.1349(b)(3)(ii) through (b)(3)(iv). Use the arithmetic average of the temperatures measured during the three runs to determine the applicable temperature limit.
- (iii) If activated carbon injection is used and you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance with the activated carbon injection rate operating limits specified in § 63.1346 by using the performance test methods and procedures in § 63.1349(b)(3)(v).
- (iv) If activated carbon injection is used, you must also develop a carrier gas parameter (either the carrier gas flow rate or the carrier gas pressure drop) during the initial performance test and updated during any subsequent performance test conducted under § 63.1349(b)(3) that meets the requirements of § 63.1349(b)(3)(vi). Compliance is demonstrated if the system is maintained within ±5 percent accuracy during the performance test determined in accordance with the procedures and criteria submitted for review in your monitoring plan required in § 63.1350(p).

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- (i) THC Compliance. If you are subject to limitations on THC emissions under § 63.1343(b), you must demonstrate compliance with the THC emissions standards by using the performance test methods and procedures in § 63.1349(b)(4)(i). You must use the average THC concentration obtained during the first 30 kiln operating days after the compliance date of this rule to determine initial compliance.
- (ii) Total Organic HAP Emissions Tests. If you elect to demonstrate compliance with the total organic HAP emissions limit under § 63.1343(b) in lieu of the THC emissions limit, you must demonstrate compliance with the total organic HAP emissions standards by using the performance test methods and procedures in § 63.1349(b)(7).
- (iii) If you are demonstrating initial compliance, you must conduct the separate performance tests as specified in § 63.1349(b)(7) while the raw mill of the inline kiln/raw mill is operating and while the raw mill of the inline kiln/raw mill is not operating.
- (iv) The time weighted average total organic HAP concentration measured during the separate initial performance test specified by § 63.1349(b)(7) must be used to determine initial compliance.
- (v) The time weighted average THC concentration measured during the initial performance test specified by § 63.1349(b)(4) must be used to determine the site-specific THC limit. Using the fraction of time the inline kiln/raw mill is on and the fraction of time that the inline kiln/raw mill is off, calculate this limit as a time weighted average of the THC levels measured during raw mill on and raw mill off testing using one of the two approaches in § 63.1349(b)(7)(vii) or (viii) depending on the level of organic HAP measured during the compliance test.
- (5) Mercury Compliance. If you are subject to limitations on mercury emissions in § 63.1343(b), you must demonstrate compliance with the mercury standards by using the performance test methods and procedures in § 63.1349(b)(5). You must demonstrate compliance by operating a mercury CEMS or a sorbent trap based CEMS. Compliance with the mercury emissions standard must be determined based on the first 30 operating days you operate a mercury CEMS or sorbent trap monitoring system after the compliance date of this rule.
- (i) In calculating a 30 operating day emissions value using an integrating sorbent trap CEMS, assign the average Hg emissions concentration determined for an integrating period (e.g., 7 day sorbent trap monitoring system sample) to each relevant hour of the kiln operating days spanned by each integrated sample. Calculate the 30 kiln operating day emissions rate value using the assigned hourly Hg emissions concentrations and the respective flow and production rate values collected during the 30 kiln operating day performance test period. Depending on the duration of each integrated sampling period, you may not be able to calculate the 30 kiln operating day emissions value until several days after the end of the 30 kiln operating day performance test period.
- (ii) For example, a sorbent trap monitoring system producing an integrated 7-day sample will provide Hg concentration data for each hour of the first 28 kiln operating days (i.e., four values spanning 7 days each) of a 30 operating day period. The Hg concentration values for the hours of the last 2 days of the 30 operating day period will not be available for calculating the emissions for the performance test period until at least five days after the end of the subject period.
- (6) HCI Compliance. If you are subject to limitations on HCI emissions under § 63.1343(b), you must demonstrate initial compliance with the HCI standards by using the performance test methods and procedures in § 63.1349(b)(6).
 - (i) For an affected source that is equipped with a wet scrubber, tray tower or dry scrubber, you may demonstrate initial





compliance by conducting a performance test as specified in § 63.1349(b)(6)(i). You must determine the HCl concentration for each run and calculate the arithmetic average of the concentrations measured for the three runs to determine compliance. You must also establish appropriate site-specific operational parameter limits.

- (ii) For an affected source that is not equipped with a wet scrubber, tray tower or dry scrubber, you must demonstrate initial compliance by operating a CEMS as specified in § 63.1349(b)(6)(ii). You must use the average of the hourly HCl values obtained during the first 30 kiln operating days that occur after the compliance date of this rule to determine initial compliance.
- (7) Commingled Exhaust Requirements. If the coal mill exhaust is commingled with kiln exhaust in a single stack, you may demonstrate compliance with the kiln emission limits by either:
 - (i) Performing required emissions monitoring and testing on the commingled coal mill and kiln exhaust, or
- (ii) Perform required emission monitoring and testing of the kiln exhaust prior to the reintroduction of the coal mill exhaust, and also testing the kiln exhaust diverted to the coal mill. All emissions must be added together for all emission points, and must not exceed the limit per each pollutant as listed in § 63.1343(b).
- (b) Continuous Monitoring Requirements. You must demonstrate compliance with the emissions standards and operating limits by using the performance test methods and procedures in §§ 63.1350 and 63.8 for each affected source.
 - (1) General Requirements.
- (i) You must monitor and collect data according to § 63.1350 and the site-specific monitoring plan required by § 63.1350(p).
- (ii) Except for periods of startup and shutdown, monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments), you must operate the monitoring system and collect data at all required intervals at all times the affected source is operating.
- (iii) You may not use data recorded during monitoring system startup, shutdown or malfunctions or repairs associated with monitoring system malfunctions in calculations used to report emissions or operating levels. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.
- (iv) Clinker Production. If you are subject to limitations on mercury emissions (lb/MM tons of clinker) under § 63.1343(b), you must determine the hourly production rate of clinker according to the requirements of § 63.1350(d).
- (2) PM Compliance. If you are subject to limitations on PM emissions under \S 63.1343(b), you must use the monitoring methods and procedures in \S 63.1350(b) and (d).
- (3) Opacity Compliance. If you are subject to the limitations on opacity under § 63.1345, you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(f) based on the maximum 6-minute average opacity exhibited during the performance test period. You must initiate corrective actions within one hour of detecting visible emissions above the applicable limit.
- (i) COMS. If you install a COMS in lieu of conducting the daily visible emissions testing, you must demonstrate compliance using a COMS such that it is installed, operated, and maintained in accordance with the requirements of § 63.1350(f)(4)(i).
- (ii) Bag Leak Detection System (BLDS). If you install a BLDS on a raw mill or finish mill in lieu of conducting the daily visible emissions testing, you must demonstrate compliance using a BLDS that is installed, operated, and maintained in accordance with the requirements of § 63.1350(f)(4)(ii).
- (4) D/F Compliance. If you are subject to a D/F emissions limitation under § 63.1343(b), you must demonstrate compliance using a continuous monitoring system (CMS) that is installed, operated and maintained to record the temperature of specified gas streams in accordance with the requirements of § 63.1350(g).
- (5) Activated Carbon Injection Compliance.
- (i) If you use activated carbon injection to comply with the D/F emissions limitation under § 63.1343(b), you must demonstrate compliance using a CMS that is installed, operated, and maintained to record the rate of activated carbon injection in accordance with the requirements § 63.1350(h)(1).
 - (ii) If you use activated carbon injection to comply with the D/F emissions limitation under § 63.1343(b), you must





demonstrate compliance using a CMS that is installed, operated and maintained to record the activated carbon injection system gas parameter in accordance with the requirements of § 63.1350(h)(2).

(6) THC Compliance.

- (i) If you are subject to limitations on THC emissions under § 63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(i) and (j).
- (ii) THC must be measured either upstream of the coal mill or in the coal mill stack.

(7) Mercury Compliance.

- (i) If you are subject to limitations on mercury emissions in § 63.1343(b), you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(k). If you use an integrated sorbent trap monitoring system to determine ongoing compliance, use the procedures described in § 63.1348(a)(5) to assign hourly mercury concentration values and to calculate rolling 30 operating day emissions rates. Since you assign the mercury concentration measured with the sorbent trap to each relevant hour respectively for each operating day of the integrated period, you may schedule the sorbent trap change periods to any time of the day (i.e., the sorbent trap replacement need not be scheduled at 12:00 midnight nor must the sorbent trap replacements occur only at integral 24-hour intervals).
 - (ii) Mercury must be measured either upstream of the coal mill or in the coal mill stack.
- (8) HCI Compliance. If you are subject to limitations on HCI emissions under § 63.1343(b), you must demonstrate compliance using the performance test methods and procedures in § 63.1349(b)(6).
- (i) For an affected source that is not equipped with a wet scrubber, tray tower or a dry sorbent injection system, you must demonstrate compliance using the monitoring methods and procedures in § 63.1350(I)(1).
- (ii) For an affected source that is equipped with a wet scrubber, tray tower or a dry sorbent injection system, you may demonstrate compliance using the monitoring methods and procedures in § 63.1350(I)(2).
 - (iii) HCl may be measured either upstream of the coal mill or in the coal mill stack.
- (iv) As an alternative to paragraph (b)(8)(ii) of this section, you may use an SO2 CEMS to establish an SO2 operating level during your initial and repeat HCl performance tests and monitor the SO2 level using the procedures in § 63.1350(I)(3).
- (9) Startup and Shutdown Compliance. All dry sorbent and activated carbon systems that control hazardous air pollutants must be turned on and operating at the time the gas stream at the inlet to the baghouse or ESP reaches 300 degrees Fahrenheit (five minute average) during startup. Temperature of the gas stream is to be measured at the inlet of the baghouse or ESP every minute. Such injection systems can be turned off during shutdown. Particulate control and all remaining devices that control hazardous air pollutants should be operational during startup and shutdown.

(c) Changes in operations.

- (1) If you plan to undertake a change in operations that may adversely affect compliance with an applicable standard, operating limit, or parametric monitoring value under this subpart, the source must conduct a performance test as specified in § 63.1349(b).
- (2) In preparation for and while conducting a performance test required in § 63.1349(b), you may operate under the planned operational change conditions for a period not to exceed 360 hours, provided that the conditions in (c)(2)(i) through (c)(2)(iv) of this section are met. You must submit temperature and other monitoring data that are recorded during the pretest operations.
- (i) You must provide the Administrator written notice at least 60 days prior to undertaking an operational change that may adversely affect compliance with an applicable standard under this subpart for any source, or as soon as practicable where 60 days advance notice is not feasible. Notice provided under this paragraph must include a description of the planned change, the emissions standards that may be affected by the change, and a schedule for completion of the performance test required under paragraph (c)(1) of this section, including when the planned operational change period would begin.
 - (ii) The performance test results must be documented in a test report according to § 63.1349(a).
 - (iii) A test plan must be made available to the Administrator prior to performance testing, if requested.
 - (iv) The performance test must be completed within 360 hours after the planned operational change period begins.
- (d) General duty to minimize emissions. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and





inspection of the source.

[75 FR 55055, Sept. 9, 2010, as amended at 78 FR 10040, Feb. 12, 2013; 80 FR 44781, July 27, 2015; 83 FR 35132, July 25, 2018]

038 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1349]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Performance testing requirements.

- (a) You must document performance test results in complete test reports that contain the information required by paragraphs (a)(1) through (10) of this section, as well as all other relevant information. As described in § 63.7(c)(2)(i), you must make available to the Administrator prior to testing, if requested, the site-specific test plan to be followed during performance testing. For purposes of determining exhaust gas flow rate to the atmosphere from an alkali bypass stack or a coal mill stack, you must either install, operate, calibrate and maintain an instrument for continuously measuring and recording the exhaust gas flow rate according to the requirements in paragraphs § 63.1350(n)(1) through (10) of this subpart or use the maximum design exhaust gas flow rate. For purposes of determining the combined emissions from kilns equipped with an alkali bypass or that exhaust kiln gases to a coal mill that exhausts through a separate stack, instead of installing a CEMS on the alkali bypass stack or coal mill stack, you may use the results of the initial and subsequent performance test to demonstrate compliance with the relevant emissions limit.
 - (1) A brief description of the process and the air pollution control system;
 - (2) Sampling location description(s);
 - (3) A description of sampling and analytical procedures and any modifications to standard procedures;
 - (4) Test results;
 - (5) Quality assurance procedures and results;
 - (6) Records of operating conditions during the performance test, preparation of standards, and calibration procedures;
 - (7) Raw data sheets for field sampling and field and laboratory analyses;
 - (8) Documentation of calculations;
 - (9) All data recorded and used to establish parameters for monitoring; and
 - (10) Any other information required by the performance test method.

- (1) PM emissions tests. The owner or operator of a kiln and clinker cooler subject to limitations on PM emissions shall demonstrate initial compliance by conducting a performance test using Method 5 or Method 5I at appendix A-3 to part 60 of this chapter. You must also monitor continuous performance through use of a PM continuous parametric monitoring system (PM CPMS).
- (i) For your PM CPMS, you will establish a site-specific operating limit. If your PM performance test demonstrates your PM emission levels to be below 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test, the milliamp or digital equivalent of zero output from your PM CPMS, and the average PM result of your compliance test to establish your operating limit. If your PM compliance test demonstrates your PM emission levels to be at or above 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test to establish your operating limit. You will use the PM CPMS to demonstrate continuous compliance with your operating limit. You must repeat the performance test annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.
- (A) Your PM CPMS must provide a 4-20 milliamp or digital signal output and the establishment of its relationship to manual reference method measurements must be determined in units of milliamps or the monitors digital equivalent.
- (B) Your PM CPMS operating range must be capable of reading PM concentrations from zero to a level equivalent to three times your allowable emission limit. If your PM CPMS is an auto-ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading PM concentration from zero to a level equivalent to three times your allowable emission limit.
- (C) During the initial performance test or any such subsequent performance test that demonstrates compliance with the PM limit, record and average all milliamp or digital output values from the PM CPMS for the periods corresponding to the compliance test runs (e.g., average all your PM CPMS output values for three corresponding Method 5I test runs).
- (ii) Determine your operating limit as specified in paragraphs (b)(1)(iii) through (iv) of this section. If your PM performance test demonstrates your PM emission levels to be below 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test, the milliamp or digital equivalent of zero output from your PM CPMS, and the average PM result of your compliance test to establish your operating limit. If your PM compliance test

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demonstrates your PM emission levels to be at or above 75 percent of your emission limit you will use the average PM CPMS value recorded during the PM compliance test to establish your operating limit. You must verify an existing or establish a new operating limit after each repeated performance test. You must repeat the performance test at least annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.

- (iii) If the average of your three Method 5 or 5I compliance test runs is below 75 percent of your PM emission limit, you must calculate an operating limit by establishing a relationship of PM CPMS signal to PM concentration using the PM CPMS instrument zero, the average PM CPMS values corresponding to the three compliance test runs, and the average PM concentration from the Method 5 or 5I compliance test with the procedures in (b)(1)(iii)(A) through (D) of this section.
 - (A) Determine your PM CPMS instrument zero output with one of the following procedures:
- (1) Zero point data for in-situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
- (2) Zero point data for extractive instruments should be obtained by removing the extractive probe from the stack and drawing in clean ambient air.
- (3) The zero point may also be established by performing manual reference method measurements when the flue gas is free of PM emissions or contains very low PM concentrations (e.g., when your process is not operating, but the fans are operating or your source is combusting only natural gas) and plotting these with the compliance data to find the zero intercept.
- (4) If none of the steps in paragraphs (b)(1)(iii)(A)(1) through (3) of this section are possible, you must use a zero output value provided by the manufacturer.
- (B) Determine your PM CPMS instrument average in milliamps or digital equivalent, and the average of your corresponding three PM compliance test runs, using equation 3.

Where:

- X1 = The PM CPMS data points for the three runs constituting the performance test.
- Y1 = The PM concentration value for the three runs constituting the performance test.
- n =The number of data points.
- (C) With your instrument zero expressed in milliamps or a digital value, your three run average PM CPMS milliamp or digital signal value, and your three run PM compliance test average, determine a relationship of lb/ton-clinker per milliamp or digital signal value with Equation 4.

Where:

- R = The relative lb/ton-clinker per milliamp or digital equivalent for your PM CPMS.
- Y1 = The three run average lb/ton-clinker PM concentration.
- X1 = The three run average milliamp or digital equivalent output from your PM CPMS.
- z = The milliamp or digital equivalent of your instrument zero determined from (b)(1)(iii)(A).
- (D) Determine your source specific 30-day rolling average operating limit using the lb/ton-clinker per milliamp or digital signal value from Equation 4 in Equation 5, below. This sets your operating limit at the PM CPMS output value corresponding to 75 percent of your emission limit.

Where:

- OI = The operating limit for your PM CPMS on a 30-day rolling average, in milliamps or the digital equivalent.
- $L = Your \, source \, emission \, limit \, expressed \, in \, lb/ton \, clinker.$
- z = Your instrument zero in milliamps, or digital equivalent, determined from (b)(1)(iii)(A).
- R = The relative lb/ton-clinker per milliamp, or digital equivalent, for your PM CPMS, from Equation 4.
- (iv) If the average of your three PM compliance test runs is at or above 75 percent of your PM emission limit you must determine your operating limit by averaging the PM CPMS milliamp or digital equivalent output corresponding to your three PM performance test runs that demonstrate compliance with the emission limit using Equation 6.

Where:





X1 = The PM CPMS data points for all runs i.

n =The number of data points.

Oh = Your site specific operating limit, in milliamps or the digital equivalent.

(v) To determine continuous operating compliance, you must record the PM CPMS output data for all periods when the process is operating, and use all the PM CPMS data for calculations when the source is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps or the digital equivalent) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 7 to determine the 30 kiln operating day average.

Where:

Hpvi = The hourly parameter value for hour i.

n = The number of valid hourly parameter values collected over 30 kiln operating days.

- (vi) For each performance test, conduct at least three separate test runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. Conduct each test run to collect a minimum sample volume of 2 dscm for determining compliance with a new source limit and 1 dscm for determining compliance with an existing source limit. Calculate the time weighted average of the results from three consecutive runs, including applicable sources as required by paragraph (b)(1)(viii) of this section, to determine compliance. You need not determine the particulate matter collected in the impingers "back half" of the Method 5 or Method 5l particulate sampling train to demonstrate compliance with the PM standards of this subpart. This shall not preclude the permitting authority from requiring a determination of the "back half" for other purposes. For kilns with inline raw mills, testing must be conducted while the raw mill is on and while the raw mill is off. If the exhaust streams of a kiln with an inline raw mill and a clinker cooler are comingled, then the comingled exhaust stream must be tested with the raw mill on and the raw mill off.
- (vii) For PM performance test reports used to set a PM CPMS operating limit, the electronic submission of the test report must also include the make and model of the PM CPMS instrument, serial number of the instrument, analytical principle of the instrument (e.g. beta attenuation), span of the instruments primary analytical range, milliamp value or digital equivalent to the instrument zero output, technique by which this zero value was determined, and the average milliamp or digital equivalent signals corresponding to each PM compliance test run.
- (viii) When there is an alkali bypass and/or an inline coal mill with a separate stack associated with a kiln, the main exhaust and alkali bypass and/or inline coal mill must be tested simultaneously and the combined emission rate of PM from the kiln and alkali bypass and/or inline coal mill must be computed for each run using Equation 8 of this section.

Where:

ECm = Combined hourly emission rate of PM from the kiln and bypass stack and/or inline coal mill, lb/ton of kiln clinker production.

EK = Hourly emissions of PM emissions from the kiln, lb.

EB = Hourly PM emissions from the alkali bypass stack, lb.

EC = Hourly PM emissions from the inline coal mill stack, lb.

P = Hourly clinker production, tons.

- (ix) The owner or operator of a kiln with an in-line raw mill and subject to limitations on PM emissions shall demonstrate initial compliance by conducting separate performance tests while the raw mill is under normal operating conditions and while the raw mill is not operating, and calculate the time weighted average emissions. The operating limit will then be determined using 63.1349(b)(1)(i) of this section.
- (2) Opacity tests. If you are subject to limitations on opacity under this subpart, you must conduct opacity tests in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The duration of the Method 9 performance test must be 3 hours (30 6-minute averages), except that the duration of the Method 9 performance test may be reduced to 1 hour if the conditions of paragraphs (b)(2)(i) and (ii) of this section apply. For batch processes that are not run for 3-hour periods or longer, compile observations totaling 3 hours when the unit is operating.





- (i) There are no individual readings greater than 10 percent opacity;
- (ii) There are no more than three readings of 10 percent for the first 1-hour period.
- (3) D/F Emissions Tests. If you are subject to limitations on D/F emissions under this subpart, you must conduct a performance test using Method 23 of appendix A-7 to part 60 of this chapter. If your kiln or in-line kiln/raw mill is equipped with an alkali bypass, you must conduct simultaneous performance tests of the kiln or in-line kiln/raw mill exhaust and the alkali bypass. You may conduct a performance test of the alkali bypass exhaust when the raw mill of the in-line kiln/raw mill is operating or not operating.
- (i) Each performance test must consist of three separate runs conducted under representative conditions. The duration of each run must be at least 3 hours, and the sample volume for each run must be at least 2.5 dscm (90 dscf).
- (ii) The temperature at the inlet to the kiln or in-line kiln/raw mill PMCD, and, where applicable, the temperature at the inlet to the alkali bypass PMCD must be continuously recorded during the period of the Method 23 test, and the continuous temperature record(s) must be included in the performance test report.
- (iii) Average temperatures must be calculated for each run of the performance test.
- (iv) The run average temperature must be calculated for each run, and the average of the run average temperatures must be determined and included in the performance test report and will determine the applicable temperature limit in accordance with § 63.1346(b).

(v)

- (A) If sorbent injection is used for D/F control, you must record the rate of sorbent injection to the kiln exhaust, and where applicable, the rate of sorbent injection to the alkali bypass exhaust, continuously during the period of the Method 23 test in accordance with the conditions in § 63.1350(m)(9), and include the continuous injection rate record(s) in the performance test report. Determine the sorbent injection rate parameters in accordance with paragraph (b)(3)(vi) of this section.
 - (B) Include the brand and type of sorbent used during the performance test in the performance test report.
- (C) Maintain a continuous record of either the carrier gas flow rate or the carrier gas pressure drop for the duration of the performance test. If the carrier gas flow rate is used, determine, record, and maintain a record of the accuracy of the carrier gas flow rate monitoring system according to the procedures in appendix A to part 75 of this chapter. If the carrier gas pressure drop is used, determine, record, and maintain a record of the accuracy of the carrier gas pressure drop monitoring system according to the procedures in § 63.1350(m)(6).
- (vi) Calculate the run average sorbent injection rate for each run and determine and include the average of the run average injection rates in the performance test report and determine the applicable injection rate limit in accordance with § 63.1346(c)(1).
- (4) THC emissions test.
- (i) If you are subject to limitations on THC emissions, you must operate a CEMS in accordance with the requirements in § 63.1350(i). For the purposes of conducting the accuracy and quality assurance evaluations for CEMS, the THC span value (as propane) is 50 to 60 ppmw and the reference method (RM) is Method 25A of appendix A to part 60 of this chapter.
- (ii) Use the THC CEMS to conduct the initial compliance test for the first 30 kiln operating days of kiln operation after the compliance date of the rule. See § 63.1348(a).
- (iii) If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through a separate stack, you must calculate a kiln-specific THC limit using Equation 9:

Where:

Cks = Kiln stack concentration (ppmvd).

Qab = Alkali bypass flow rate (volume/hr).

Cab = Alkali bypass concentration (ppmvd).

Qcm = Coal mill flow rate (volume/hr).

Ccm = Coal mill concentration (ppmvd).

- Qks = Kiln stack flow rate (volume/hr).
- (iv) THC must be measured either upstream of the coal mill or the coal mill stack.
- (v) Instead of conducting the performance test specified in paragraph (b)(4)of this section, you may conduct a performance test to determine emissions of total organic HAP by following the procedures in paragraph (b)(7) of this section.





- (5) Mercury Emissions Tests. If you are subject to limitations on mercury emissions, you must operate a mercury CEMS or a sorbent trap monitoring system in accordance with the requirements of § 63.1350(k). The initial compliance test must be based on the first 30 kiln operating days in which the affected source operates using a mercury CEMS or a sorbent trap monitoring system after the compliance date of the rule. See § 63.1348(a).
- (i) If you are using a mercury CEMS or a sorbent trap monitoring system, you must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in § 63.1350(k)(5).
- (ii) Calculate the emission rate using Equation 10 of this section:

Where:

E30D = 30-day rolling emission rate of mercury, lb/MM tons clinker.

Ci = Concentration of mercury for operating hour i, μ g/scm.

Qi = Volumetric flow rate of effluent gas for operating hour i, where Ci and Qi are on the same basis (either wet or dry), scm/hr.

 $k = Conversion factor, 1 lb/454,000,000 \mug.$

n = Number of kiln operating hours in the previous 30 kiln operating day period where both C and Qi qualified data are available.

P = Total runs from the previous 30 days of clinker production during the same time period as the mercury emissions measured, million tons.

(6) HCI emissions tests. For a source subject to limitations on HCI emissions you must conduct performance testing by one of the following methods:

(i)

- (A) If the source is equipped with a wet scrubber, tray tower or dry scrubber, you must conduct performance testing using Method 321 of appendix A to this part unless you have installed a CEMS that meets the requirements § 63.1350(I)(1). For kilns with inline raw mills, testing must be conducted for the raw mill on and raw mill off conditions.
- (B) You must establish site specific parameter limits by using the CPMS required in § 63.1350(I)(1). For a wet scrubber or tray tower, measure and record the pressure drop across the scrubber and/or liquid flow rate and pH in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average pressure drop, pH, and average scrubber water flow rate for each sampling run in which the applicable emissions limit is met. For a dry scrubber, measure and record the sorbent injection rate in intervals of no more than 15 minutes during the HCl test. Compute and record the 24-hour average sorbent injection rate and average sorbent injection rate for each sampling run in which the applicable emissions limit is met.

(ii)

- (A) If the source is not controlled by a wet scrubber, tray tower or dry sorbent injection system, you must operate a CEMS in accordance with the requirements of § 63.1350(I)(1). See § 63.1348(a).
- (B) The initial compliance test must be based on the 30 kiln operating days that occur after the compliance date of this rule in which the affected source operates using an HCI CEMS. Hourly HCI concentration data must be obtained according to § 63.1350(I).
- (iii) As an alternative to paragraph (b)(6)(i)(B) of this section, you may choose to monitor SO2 emissions using a CEMS in accordance with the requirements of § 63.1350(l)(3). You must establish an SO2 operating limit equal to the average recorded during the HCl stack test where the HCl stack test run result demonstrates compliance with the emission limit. This operating limit will apply only for demonstrating HCl compliance.
- (iv) If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through a separate stack, you must calculate a kiln-specific HCI limit using Equation 11:

Where:

Cks = Kiln stack concentration (ppmvd).

Qab = Alkali bypass flow rate (volume/hr).

Cab = Alkali bypass concentration (ppmvd).

Qcm = Coal mill flow rate (volume/hr).

Ccm = Coal mill concentration (ppmvd).

Qks = Kiln stack flow rate (volume/hr).



- (v) As an alternative to paragraph (b)(6)(ii) of this section, the owner or operator may demonstrate initial compliance by conducting a performance test using Method 321 of appendix A to this part. You must also monitor continuous performance through use of an HCI CPMS according to paragraphs (b)(6)(v)(A) through (H) of this section. For kilns with inline raw mills, compliance testing and monitoring HCl to establish the site specific operating limit must be conducted during both raw mill on and raw mill off conditions.
- (A) For your HCI CPMS, you must establish a 30 kiln operating day site-specific operating limit. If your HCI performance test demonstrates your HCI emission levels to be less than 75 percent of your emission limit (2.25 ppmvd @7% O2), you must use the time weighted average HCI CPMS indicated value recorded during the HCI compliance test (typically measured as ppmw HCI at stack O2 concentration, but a dry, oxygen corrected value would also suffice), your HCI instrument zero output value, and the time weighted average HCI result of your compliance test to establish your operating limit. If your HCI compliance test demonstrates your HCI emission levels to be at or above 75 percent of your emission limit (2.25 ppmvd @7% O2), you must use the time weighted average HCI CPMS indicated value recorded during the HCI compliance test as your operating limit. You must use the HCI CPMS indicated signal data to demonstrate continuous compliance with your operating limit.
- (1) Your HCI CPMS must provide a ppm HCl concentration output and the establishment of its relationship to manual reference method measurements must be determined in units of indicated ppm. The instrument signal may be in ppmww or ppmvd and the signal may be a measurement of HCl at in-stack concentration or a corrected oxygen concentration. Once the relationship between the indicated output of the HCl CPMS and the reference method test results is established, the HCl CPMS instrument measurement basis (ppmw or ppmvd, or oxygen correction basis) must not be altered. Likewise, any setting that impacts the HCl CPMS indicated HCl response must remain fixed after the site-specific operating limit is set.
- (2) Your HCI CPMS operating range must be capable of reading HCI concentrations from zero to a level equivalent to 125 percent of the highest expected value during mill off operation. If your HCI CPMS is an auto-ranging instrument capable of multiple scales, the primary range of the instrument must be capable of reading an indicated HCI concentration from zero to 10 ppm.
- (3) During the initial performance test of a kiln with an inline raw mill, or any such subsequent performance test that demonstrates compliance with the HCI limit, record and average the indicated ppm HCI output values from the HCI CPMS for each of the six periods corresponding to the compliance test runs (e.g., average each of your HCI CPMS output values for six corresponding Method 321 test runs). With the average values of the six test runs, calculate the average of the three mill on test runs and the average of the three mill off test runs. Calculate the time weighted result using the average of the three mill on tests and the average of the three mill off tests and the previous annual ratio of mill on/mill off operations. Kilns without an inline raw mill will conduct three compliance tests and calculate the average monitor output values corresponding to these three test runs and not use time weighted values to determine their site specific operating limit.
- (B) Determine your operating limit as specified in paragraphs (b)(6)(i) or (iii) of this section. If your HCl performance test demonstrates your HCl emission levels to be below 75 percent of your emission limit, kilns with inline raw mills will use the time weighted average indicated HCl ppm concentration CPMS value recorded during the HCl compliance test, the zero value output from your HCl CPMS, and the time weighted average HCl result of your compliance test to establish your operating limit. Kilns without inline raw mills will not use a time weighted average value to establish their operating limit. If your time weighted HCl compliance test demonstrates your HCl emission levels to be at or above 75 percent of your emission limit, you will use the time weighted HCl CPMS indicated ppm value recorded during the HCl compliance test to establish your operating limit. Kilns without inline raw mills will not use time weighted compliance test results to make this determination. You must verify an existing operating limit or establish a new operating limit for each kiln, after each repeated performance test.
- (C) If the average of your three Method 321 compliance test runs (for kilns without an inline raw mill) or the time weighted average of your six Method 321 compliance test runs (for an kiln with an inline raw mill) is below 75 percent of your HCl emission limit, you must calculate an operating limit by establishing a relationship of the average HCl CPMS indicated ppm to the Method 321 test average HCl concentration using the HCl CPMS instrument zero, the average HCl CPMS indicated values corresponding to the three (for kilns without inline raw mills) or time weighted HCl CPMS indicated values corresponding to the six (for kilns with inline raw mills) compliance test runs, and the average HCl concentration (for kilns without raw mills) or average time weighted HCl concentration (for kilns with inline raw mills) from the Method 321 compliance test with the procedures in paragraphs (b)(6)(v)(C)(1) through (5) of this section.
 - (1) Determine your HCI CPMS instrument zero output with one of the following procedures:
- (i) Zero point data for in situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
- (ii) If neither of the steps in paragraphs (b)(6)(v)(C)(1)(i) through (ii) of this section are possible, you must use a zero output value provided by the manufacturer. (2) If your facility does not have an inline raw mill you will determine your HCl





CPMS indicated average in HCl ppm, and the average of your corresponding three HCl compliance test runs, using equation 11a.

Where:

- Xi = The HCI CPMS data points for the three (or six) runs constituting the performance test;
- Yi = The HCl concentration value for the three (or six) runs constituting the performance test; and
- n = The number of data points.
- (3) You will determine your HCI CPMS indicated average in HCl ppm, and the average of your corresponding HCl compliance test runs, using equation 11b. If you have an inline raw mill, use this same equation to calculate a second three-test average for your mill off CPMS and compliance test data.

Where:

- Xi = The HCI CPMS data points for the three runs constituting the mill on OR mill off performance test;
- $Yi = The \ HCI$ concentration value for the three runs constituting the mill on OR mill off performance test; and $n = The \ number \ of \ data \ points$.
- (4) With your instrument zero expressed in ppm, your average HCl CPMS ppm value, and your HCl compliance test average, determine a relationship of performance test HCl (as ppmvd @7% O2) concentration per HCl CPMS indicated ppm with Equation 11c.

Where:

- R = The relative performance test concentration per indicated ppm for your HCI CPMS;
- Y1 = The average HCl concentration as ppmvd @7% O2 during the performance test;
- X1 = The average indicated ppm output from your HCI CPMS; and
- z = The ppm of your instrument zero determined from paragraph (b)(6)(v)(C)(1) of this section.
- (5) Determine your source specific 30 kiln operating day operating limit using HC1 CPMS indicated value from Equation 11c in Equation 11d, below. This sets your operating limit at the HC1 CPMS output value corresponding to 75 percent of your emission limit.

Where:

- OI = The operating limit for your HCI CPMS on a 30 kiln operating day average, as indicated ppm;
- L = 3 ppmvd @7% O2;
- z =Your instrument zero, determined from paragraph (b)(6)(v)(C)(1) of this section; and
- R = The relative performance test concentration per indicated ppm for your HCI CPMS, from Equation 11c.
- (D) If the average of your HCl compliance test runs is at or above 75 percent of your HCl emission limit (2.25 ppmvd@7% O2) you must determine your operating limit by averaging the HCl CPMS output corresponding to your HCl performance test runs that demonstrate compliance with the emission limit using Equation 11e.

Where:

- Oh = Your site specific HCI CPMS operating limit, in indicated ppm.
- Xi = The HCI CPMS data points for all runs i.
- n =The number of data points.
- (E) To determine continuous compliance with the operating limit, you must record the HCI CPMS indicated output data for all periods when the process is operating and use all the HCI CPMS data for calculations when the source is not out of control. You must demonstrate continuous compliance with the operating limit by using all quality-assured hourly average data collected by the HCI CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmw) on a 30 kiln operating day rolling average basis, updated at the end of each new kiln operating





day. Use Equation 11f to determine the 30 kiln operating day average.

Where:

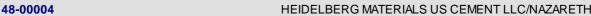
30 kiln operating day parameter average = The average indicated value for the CPMS parameter over the previous 30 days of kiln operation;

Hpvi = The hourly parameter value for hour i; and

- n = The number of valid hourly parameter values collected over 30 kiln operating days.
- (F) If you exceed the 30 kiln operating day operating limit, you must evaluate the control system operation and re-set the operating limit.
- (G) The owner or operator of a kiln with an inline raw mill and subject to limitations on HCI emissions must demonstrate initial compliance by conducting separate performance tests while the raw mill is on and while the raw mill is off. Using the fraction of time the raw mill is on calculate your HCI CPMS limit as a weighted average of the HCI CPMS indicated values measured during raw mill on and raw mill off compliance testing using Equation 11g.

Where:

- R = HCI CPMS operating limit;
- b = Average indicated HCl CPMS value during mill on operations, ppm;
- t = Fraction of operating time with mill on;
- a = Average indicated HCI CPMS value during mill off operations ppm; and
- (1-t) = Fraction of operating time with mill off.
- (H) Paragraph (b)(6)(v) of this section expires on July 25, 2017 at which time the owner or operator must demonstrate compliance with paragraphs (b)(6)(i), (ii), or (iii).
- (7) Total Organic HAP Emissions Tests. Instead of conducting the performance test specified in paragraph (b)(4) of this section, you may conduct a performance test to determine emissions of total organic HAP by following the procedures in paragraphs (b)(7)(i) through (v) of this section.
- (i) Use Method 320 of appendix A to this part, Method 18 of Appendix A of part 60, ASTM D6348-03 or a combination to determine emissions of total organic HAP. Each performance test must consist of three separate runs under the conditions that exist when the affected source is operating at the representative performance conditions in accordance with § 63.7(e). Each run must be conducted for at least 1 hour.
- (ii) At the same time that you are conducting the performance test for total organic HAP, you must also determine a site-specific THC emissions limit by operating a THC CEMS in accordance with the requirements of § 63.1350(j). The duration of the performance test must be at least 3 hours and the average THC concentration (as calculated from the recorded output) during the 3-hour test must be calculated. You must establish your THC operating limit and determine compliance with it according to paragraphs (b)(7)(vii) and (viii) of this section. It is permissible to extend the testing time of the organic HAP performance test if you believe extended testing is required to adequately capture organic HAP and/or THC variability over time.
- (iii) If your source has an in-line kiln/raw mill you must use the fraction of time the raw mill is on and the fraction of time that the raw mill is off and calculate this limit as a weighted average of the THC levels measured during three raw mill on and three raw mill off tests.
- (iv) If your organic HAP emissions are below 75 percent of the organic HAP standard and you determine your operating limit with paragraph (b)(7)(vii) of this section your THC CEMS must be calibrated and operated on a measurement scale no greater than 180 ppmw, as carbon, or 60 ppmw as propane.
- (v) If your kiln has an inline coal mill and/or an alkali bypass with separate stacks, you are required to measure and account for oHAP emissions from their separate stacks. You are required to measure oHAP at the coal mill inlet or outlet and you must also measure oHAP at the alkali bypass outlet. You must then calculate a flow weighted average oHAP concentration for all emission sources including the inline coal mill and the alkali bypass.
- (vi) Your THC CEMS measurement scale must be capable of reading THC concentrations from zero to a level equivalent to two times your highest THC emissions average determined during your performance test, including mill on or mill off operation. Note: This may require the use of a dual range instrument to meet this requirement and paragraph (b)(7)(iv) of this section.



- (vii) Determine your operating limit as specified in paragraphs (b)(7)(viii) and (ix) of this section. If your organic HAP performance test demonstrates your average organic HAP emission levels are below 75 percent of your emission limit (9 ppmv) you will use the average THC value recorded during the organic HAP performance test, and the average total organic HAP result of your performance test to establish your operating limit. If your organic HAP compliance test results demonstrate that your average organic HAP emission levels are at or above 75 percent of your emission limit, your operating limit is established as the average THC value recorded during the organic HAP performance test. You must establish a new operating limit after each performance test. You must repeat the performance test no later than 30 months following your last performance test and reassess and adjust the site-specific operating limit in accordance with the results of the performance test.
- (viii) If the average organic HAP results for your three Method 18 and/or Method 320 performance test runs are below 75 percent of your organic HAP emission limit, you must calculate an operating limit by establishing a relationship of THC CEMS signal to the organic HAP concentration using the average THC CEMS value corresponding to the three organic HAP compliance test runs and the average organic HAP total concentration from the Method 18 and/or Method 320 performance test runs with the procedures in (b)(7)(viii)(A) and (B) of this section.
- (A) Determine the THC CEMS average value in ppmw, and the average of your corresponding three total organic HAP compliance test runs, using Equation 12.

Where:

- x^{-} = The average THC CEMS value in ppm·w, as propane.
- Xi = The THC CEMS data points in ppmww, as propane, for all three test runs.
- y^{-} = The average organic HAP value in ppmvd, corrected to 7 percent oxygen.
- Yi = The organic HAP concentrations in ppmvd, corrected to 7 percent oxygen, for all three test runs.
- n =The number of data points.
- (B) You must use your 3-run average THC CEMS value and your 3-run average organic HAP concentration from your Method 18 and/or Method 320 compliance tests to determine the operating limit. Use equation 13 to determine your operating limit in units of ppmww THC, as propane.

Where:

- TI = The 30-day operating limit for your THC CEMS, ppmww, as propane.
- y^{-} = The average organic HAP concentration from Eq. 12, ppmvd, corrected to 7 percent oxygen.
- x^{-} = The average THC CEMS concentration from Eq. 12, ppm·w, as propane.
- 9 = 75 percent of the organic HAP emissions limit (12 ppmvd, corrected to 7 percent oxygen)
- (ix) If the average of your three organic HAP performance test runs is at or above 75 percent of your organic HAP emission limit, you must determine your operating limit using Equation 14 by averaging the THC CEMS output values corresponding to your three organic HAP performance test runs that demonstrate compliance with the emission limit. If your new THC CEMS value is below your current operating limit, you may opt to retain your current operating limit, but you must still submit all performance test and THC CEMS data according to the reporting requirements in paragraph (d)(1) of this section.

Where:

- X1 = The THC CEMS data points for all runs i.
- n =The number of data points.
- Th = Your site specific operating limit, in ppmw THC.
- (x) If your kiln has an inline kiln/raw mill, you must conduct separate performance tests while the raw mill is operating ("mill on") and while the raw mill is not operating ("mill off"). Using the fraction of time the raw mill is on and the fraction of time that the raw mill is off, calculate this limit as a weighted average of the THC levels measured during raw mill on and raw mill off compliance testing with Equation 15.

Where:

R = Operating limit as THC, ppmww.





- y = Average THC CEMS value during mill on operations, ppm w.
- t = Percentage of operating time with mill on.
- x = Average THC CEMS value during mill off operations, ppm vw.
- (1-t) = Percentage of operating time with mill off.
- (xi) To determine continuous compliance with the THC operating limit, you must record the THC CEMS output data for all periods when the process is operating and the THC CEMS is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the THC CEMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmww) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 16 to determine the 30 kiln operating day average.

Where:

Hpvi = The hourly parameter value for hour i, ppmvw.

- n = The number of valid hourly parameter values collected over 30 kiln operating days.
- (xii) Use EPA Method 18 or Method 320 of appendix A to part 60 of this chapter to determine organic HAP emissions. For each performance test, conduct at least three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. If your source has an in-line kiln/raw mill you must conduct three separate test runs with the raw mill on, and three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur with the mill off. Conduct each Method 18 test run to collect a minimum target sample equivalent to three times the method detection limit. Calculate the average of the results from three runs to determine compliance.
- (xiii) If the THC level exceeds by 10 percent or more your site-specific THC emissions limit, you must
- (A) As soon as possible but no later than 30 days after the exceedance, conduct an inspection and take corrective action to return the THC CEMS measurements to within the established value; and
- (B) Within 90 days of the exceedance or at the time of the 30 month compliance test, whichever comes first, conduct another performance test to determine compliance with the organic HAP limit and to verify or re-establish your site-specific THC emissions limit.
- (8) HCI Emissions Tests with SO2 Monitoring. If you choose to monitor SO2 emissions using a CEMS to demonstrate HCI compliance, follow the procedures in (b)(8)(i) through (ix) of this section and in accordance with the requirements of § 63.1350(I)(3). You must establish an SO2 operating limit equal to the average recorded during the HCl stack test. This operating limit will apply only for demonstrating HCl compliance.
- (i) Use Method 321 of appendix A to this part to determine emissions of HCI. Each performance test must consist of three separate runs under the conditions that exist when the affected source is operating at the representative performance conditions in accordance with § 63.7(e). Each run must be conducted for at least one hour.
- (ii) At the same time that you are conducting the performance test for HCI, you must also determine a site-specific SO2 emissions limit by operating an SO2 CEMS in accordance with the requirements of § 63.1350(I). The duration of the performance test must be three hours and the average SO2 concentration (as calculated from the average output) during the 3-hour test must be calculated. You must establish your SO2 operating limit and determine compliance with it according to paragraphs (b)(8)(vii) and (viii) of this section.
- (iii) If your source has an in-line kiln/raw mill you must use the fraction of time the raw mill is on and the fraction of time that the raw mill is off and calculate this limit as a weighted average of the SO2 levels measured during raw mill on and raw mill off testing.
- (iv) Your SO2 CEMS must be calibrated and operated according to the requirements of § 60.63(f).
- (v) Your SO2 CEMS measurement scale must be capable of reading SO2 concentrations consistent with the requirements of § 60.63(f), including mill on or mill off operation.
- (vi) If your kiln has an inline kiln/raw mill, you must conduct separate performance tests while the raw mill is operating ("mill on") and while the raw mill is not operating ("mill off"). Using the fraction of time that the raw mill is on and the fraction of time that the raw mill is off, calculate this limit as a weighted average of the SO2 levels measured during raw mill on and raw mill off compliance testing with Equation 17.

Where:





- R = Operating limit as SO2, ppmv.
- y = Average SO2 CEMS value during mill on operations, ppmv.
- t = Percentage of operating time with mill on, expressed as a decimal.
- x = Average SO2 CEMS value during mill off operations, ppmv.
- 1-t = Percentage of operating time with mill off, expressed as a decimal.
- (vii) If the average of your three HCl compliance test runs is below 75 percent of your HCl emission limit, you may as a compliance alternative, calculate an operating limit by establishing a relationship of SO2 CEMS signal to your HCl concentration corrected to 7 percent O2 by using the SO2 CEMS instrument zero, the average SO2 CEMS values corresponding to the three compliance test runs, and the average HCl concentration from the HCl compliance test with the procedures in (b)(8)(vii)(A) through (D) of this section.
 - (A) Determine your SO2 CEMS instrument zero output with one of the following procedures:
- (1) Zero point data for in-situ instruments should be obtained by removing the instrument from the stack and monitoring ambient air on a test bench.
- (2) Zero point data for extractive instruments may be obtained by removing the extractive probe from the stack and drawing in clean ambient air.
- (3) The zero point may also be established by performing probe-flood introduction of high purity nitrogen or certified zero air free of SO2.
- (4) If none of the steps in paragraphs (b)(8)(vii)(A)(1) through (3) of this section are possible, you must use a zero output value provided by the manufacturer.
- (B) Determine your SO2 CEMS instrument average ppmv, and the average of your corresponding three HCl compliance test runs, using Equation 18.

Where:

- x^- = The average SO2 CEMS value in ppmv.
- X1 = The SO2 CEMS data points in ppmv for the three runs constituting the performance test.
- y^{-} = The average HCl value in ppmvd, corrected to 7 percent oxygen.
- Y1 = The HCl emission concentration expressed as ppmvd, corrected to 7 percent oxygen for the threeruns constituting the performance test.
- n = The number of data points.
- (C) With your instrument zero expressed in ppmv, your SO2 CEMS three run average expressed in ppmv, and your 3-run HCl compliance test average in ppmvd, corrected to 7 percent O2, determine a relationship of ppmvd HCl corrected to 7 percent O2 per ppmv SO2 with Equation 19.

Where:

- R = The relative HCl ppmvd, corrected to 7 percent oxygen, per ppmv SO2 for your SO2 CEMS.
- y^{-} = The average HCl concentration from Eq. 18 in ppmvd, corrected to 7 percent oxygen.
- x^{-} = The average SO2 CEMS value from Eq. 18 in ppmv.
- z =The instrument zero output ppmv value.
- (D) Determine your source specific 30-day rolling average operating limit using ppm HCl corrected to 7 percent O2 per ppm SO2 value from Equation 19 in Equation 20, below. This sets your operating limit at the SO2 CEMS ppm value corresponding to 75 percent of your emission limit.

Where:

- OI = The operating limit for your SO2 CEMS on a 30-day rolling average, in ppmv.
- L = Your source HCI emission limit expressed in ppmv corrected to 7 percent O2.
- z =Your instrument zero in ppmv, determined from (1)(i).
- R = The relative oxygen corrected ppmv HCl per ppmv SO2, for your SO2 CEMS, from Equation 19.
- (viii) To determine continuous compliance with the SO2 operating limit, you must record the SO2 CEMS output data for all periods when the process is operating and the SO2 CEMS is not out-of-control. You must demonstrate continuous





compliance by using all quality-assured hourly average data collected by the SO2 CEMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (ppmw) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day. Use Equation 21 to determine the 30 kiln operating day average.

Where:

Hpvi = The hourly parameter value for hour i, ppmvw.

- n = The number of valid hourly parameter values collected over 30 kiln operating days.
- (ix) Use EPA Method 321 of appendix A to part 60 of this chapter to determine HCI emissions. For each performance test, conduct at least three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur. If your source has an in-line kiln/raw mill you must conduct three separate test runs with the raw mill on, and three separate runs under the conditions that exist when the affected source is operating at the level reasonably expected to occur with the mill off.
- (x) If the SO2 level exceeds by 10 percent or more your site-specific SO2 emissions limit, you must:
- (A) As soon as possible but no later than 30 days after the exceedance, conduct an inspection and take corrective action to return the SO2 CEMS measurements to within the established value;
- (B) Within 90 days of the exceedance or at the time of the periodic compliance test, whichever comes first, conduct another performance test to determine compliance with the HCI limit and to verify or re-establish your site-specific SO2 emissions limit.
- (c) Performance test frequency. Except as provided in § 63.1348(b), performance tests are required at regular intervals for affected sources that are subject to a dioxin, organic HAP or HCI emissions limit. Performance tests required every 30 months must be completed no more than 31 calendar months after the previous performance test except where that specific pollutant is monitored using CEMS; performance tests required every 12 months must be completed no more than 13 calendar months after the previous performance test.
- (d) [Reseved]
- (e) Conditions of performance tests. Conduct performance tests under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, you must make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

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039 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1350]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Monitoring requirements.

(a)

- (1) Following the compliance date, the owner or operator must demonstrate compliance with this subpart on a continuous basis by meeting the requirements of this section.
- (2) [Reserved]
- (3) For each existing unit that is equipped with a CMS, maintain the average emissions or the operating parameter values within the operating parameter limits established through performance tests.
- (4) Any instance where the owner or operator fails to comply with the continuous monitoring requirements of this section is a violation.
- (b) PM monitoring requirements.

(1)

(i) PM CPMS. You will use a PM CPMS to establish a site-specific operating limit corresponding to the results of the performance test demonstrating compliance with the PM limit. You will conduct your performance test using Method 5 or





Method 5I at appendix A-3 to part 60 of this chapter. You will use the PM CPMS to demonstrate continuous compliance with this operating limit. You must repeat the performance test annually and reassess and adjust the site-specific operating limit in accordance with the results of the performance test using the procedures in § 63.1349(b)(1) (i) through (vi) of this subpart. You must also repeat the test if you change the analytical range of the instrument, or if you replace the instrument itself or any principle analytical component of the instrument that would alter the relationship of output signal to in-stack PM concentration.

- (ii) To determine continuous compliance, you must use the PM CPMS output data for all periods when the process is operating and the PM CPMS is not out-of-control. You must demonstrate continuous compliance by using all quality-assured hourly average data collected by the PM CPMS for all operating hours to calculate the arithmetic average operating parameter in units of the operating limit (milliamps) on a 30 operating day rolling average basis, updated at the end of each new kiln operating day.
- (iii) For any exceedance of the 30 process operating day PM CPMS average value from the established operating parameter limit, you must:
 - (A) Within 48 hours of the exceedance, visually inspect the APCD;
- (B) If inspection of the APCD identifies the cause of the exceedance, take corrective action as soon as possible and return the PM CPMS measurement to within the established value; and
- (C) Within 30 days of the exceedance or at the time of the annual compliance test, whichever comes first, conduct a PM emissions compliance test to determine compliance with the PM emissions limit and to verify or re-establish the PM CPMS operating limit within 45 days. You are not required to conduct additional testing for any exceedances that occur between the time of the original exceedance and the PM emissions compliance test required under this paragraph.
- (iv) PM CPMS exceedances leading to more than four required performance tests in a 12-month process operating period (rolling monthly) constitute a presumptive violation of this subpart.
- (2) [Reserved]
- (c) [Reserved]
- (d) Clinker production monitoring requirements. In order to determine clinker production, you must:
 - (1) Determine hourly clinker production by one of two methods:
- (i) Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tonsmass per hour of the amount of clinker produced. The system of measuring hourly clinker production must be maintained within ±5 percent accuracy, or
- (ii) Install, calibrate, maintain, and operate a permanent weigh scale system to measure and record weight rates in tonsmass per hour of the amount of feed to the kiln. The system of measuring feed must be maintained within ±5 percent accuracy. Calculate your hourly clinker production rate using a kiln-specific feed to clinker ratio based on reconciled clinker production determined for accounting purposes and recorded feed rates. Update this ratio monthly. Note that if this ratio changes at clinker reconciliation, you must use the new ratio going forward, but you do not have to retroactively change clinker production rates previously estimated.
 - (iii) [Reserved]
- (2) Determine, record, and maintain a record of the accuracy of the system of measuring hourly clinker production (or feed mass flow if applicable) before initial use (for new sources) or by the effective compliance date of this rule (for existing sources). During each quarter of source operation, you must determine, record, and maintain a record of the ongoing accuracy of the system of measuring hourly clinker production (or feed mass flow).
- (3) If you measure clinker production directly, record the daily clinker production rates; if you measure the kiln feed rates and calculate clinker production, record the hourly kiln feed and clinker production rates.
- (4) Develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.
- (e) [Reserved]
- (f) Opacity monitoring requirements. If you are subject to a limitation on opacity under § 63.1345, you must conduct required opacity monitoring in accordance with the provisions of paragraphs (f)(1)(i) through (vii) of this section and in accordance with your monitoring plan developed under § 63.1350(p). You must also develop an opacity monitoring plan in accordance with paragraphs (p)(1) through (4) and paragraph (o)(5), if applicable, of this section.
 - (1)
 - (i) You must conduct a monthly 10-minute visible emissions test of each affected source in accordance with Method 22 of





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appendix A-7 to part 60 of this chapter. The performance test must be conducted while the affected source is in operation.

- (ii) If no visible emissions are observed in six consecutive monthly tests for any affected source, the owner or operator may decrease the frequency of performance testing from monthly to semi-annually for that affected source. If visible emissions are observed during any semi-annual test, you must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
- (iii) If no visible emissions are observed during the semi-annual test for any affected source, you may decrease the frequency of performance testing from semi-annually to annually for that affected source. If visible emissions are observed during any annual performance test, the owner or operator must resume performance testing of that affected source on a monthly basis and maintain that schedule until no visible emissions are observed in six consecutive monthly tests.
- (iv) If visible emissions are observed during any Method 22 performance test, of appendix A-7 to part 60 of this chapter, you must conduct 30 minutes of opacity observations, recorded at 15-second intervals, in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The Method 9 performance test, of appendix A-4 to part 60 of this chapter, must begin within 1 hour of any observation of visible emissions.
- (v) Any totally enclosed conveying system transfer point, regardless of the location of the transfer point is not required to conduct Method 22 visible emissions monitoring under this paragraph. The enclosures for these transfer points must be operated and maintained as total enclosures on a continuing basis in accordance with the facility operations and maintenance plan.
- (vi) If any partially enclosed or unenclosed conveying system transfer point is located in a building, you must conduct a Method 22 performance test, of appendix A-7 to part 60 of this chapter, according to the requirements of paragraphs (f)(1)(i) through (iv) of this section for each such conveying system transfer point located within the building, or for the building itself, according to paragraph (f)(1)(vii) of this section.
- (vii) If visible emissions from a building are monitored, the requirements of paragraphs (f)(1)(i) through (f)(1)(iv) of this section apply to the monitoring of the building, and you must also test visible emissions from each side, roof, and vent of the building for at least 10 minutes.

(2)

- (i) For a raw mill or finish mill, you must monitor opacity by conducting daily visible emissions observations of the mill sweep and air separator PM control devices (PMCD) of these affected sources in accordance with the procedures of Method 22 of appendix A-7 to part 60 of this chapter. The duration of the Method 22 performance test must be 6 minutes.
- (ii) Within 24 hours of the end of the Method 22 performance test in which visible emissions were observed, the owner or operator must conduct a follow up Method 22 performance test of each stack from which visible emissions were observed during the previous Method 22 performance test.
- (iii) If visible emissions are observed during the follow-up Method 22 performance test required by paragraph (f)(2)(ii) of this section from any stack from which visible emissions were observed during the previous Method 22 performance test required by paragraph (f)(2)(i) of the section, you must then conduct an opacity test of each stack from which emissions were observed during the follow up Method 22 performance test in accordance with Method 9 of appendix A-4 to part 60 of this chapter. The duration of the Method 9 test must be 30 minutes.
- (3) If visible emissions are observed during any Method 22 visible emissions test conducted under paragraphs (f)(1) or (2) of this section, you must initiate, within one-hour, the corrective actions specified in your operation and maintenance plan as required in § 63.1347.
- (4) The requirements under paragraph (f)(2) of this section to conduct daily Method 22 testing do not apply to any specific raw mill or finish mill equipped with a COMS or BLDS.
- (i) If the owner or operator chooses to install a COMS in lieu of conducting the daily visible emissions testing required under paragraph (f)(2) of this section, then the COMS must be installed at the outlet of the PM control device of the raw mill or finish mill and the COMS must be installed, maintained, calibrated, and operated as required by the general provisions in subpart A of this part and according to PS-1 of appendix B to part 60 of this chapter.
- (ii) If you choose to install a BLDS in lieu of conducting the daily visible emissions testing required under paragraph (f)(2) of this section, the requirements in paragraphs (m)(1) through (m)(4), (m)(10) and (m)(11) of this section apply.
- (g) D/F monitoring requirements. If you are subject to an emissions limitation on D/F emissions, you must comply with the monitoring requirements of paragraphs (g)(1) through (5) and (m)(1) through (4) of this section to demonstrate continuous compliance with the D/F emissions standard. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.
- (1) You must install, calibrate, maintain, and continuously operate a CMS to record the temperature of the exhaust gases





from the kiln and alkali bypass, if applicable, at the inlet to, or upstream of, the kiln and/or alkali bypass PMCDs.

- (i) The temperature recorder response range must include zero and 1.5 times the average temperature established according to the requirements in § 63.1349(b)(3)(iv).
- (ii) The calibration reference for the temperature measurement must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
- (iii) The calibration of all thermocouples and other temperature sensors must be verified at least once every three months.
- (2) You must monitor and continuously record the temperature of the exhaust gases from the kiln and alkali bypass, if applicable, at the inlet to the kiln and/or alkali bypass PMCD.
- (3) The required minimum data collection frequency must be one minute.
- (4) Every hour, record the calculated rolling three-hour average temperature using the average of 180 successive one-minute average temperatures. See § 63.1349(b)(3).
- (5) When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on or from on to off, the calculation of the three-hour rolling average temperature must begin anew, without considering previous recordings.
- (h) Monitoring requirements for sources using sorbent injection. If you are subject to an operating limit on D/F emissions that employs carbon injection as an emission control technique, you must comply with the additional monitoring requirements of paragraphs (h)(1) and (h)(2) and paragraphs (m)(1) through (m)(4) and (m)(9) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.
- (1) Install, operate, calibrate, and maintain a continuous monitor to record the rate of activated carbon injection. The accuracy of the rate measurement device must be ± 1 percent of the rate being measured.
 - (i) Verify the calibration of the device at least once every three months.
- (ii) Each hour, calculate the three-hour rolling average activated carbon injection rate for the previous three hours of process operation. See § 63.1349(b)(3).
- (iii) When the operating status of the raw mill of the in-line kiln/raw mill is changed from off to on or from on to off, the calculation of the three-hour rolling average activated carbon injection rate must begin anew, without considering previous recordings.

(2)

- (i) Install, operate, calibrate, and maintain a continuous monitor to record the activated carbon injection system carrier gas parameter (either the carrier gas flow rate or the carrier gas pressure drop) established during the D/F performance test in accordance with § 63.1349(b)(3).
- (ii) Each hour, calculate the 3-hour rolling average of the selected parameter value for the previous 3 hours of process operation using all of the one-minute data available (i.e., the CMS is not out-of-control).
- (i) THC Monitoring Requirements. If you are subject to an emissions limitation on THC emissions, you must comply with the monitoring requirements of paragraphs (i)(1) and (i)(2) and (m)(1) through (m)(4) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (p)(4) of this section.
- (1) You must install, operate, and maintain a THC continuous emission monitoring system in accordance with Performance Specification 8 or Performance Specification 8A of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part. The owner or operator must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of appendix F in part 60 of this chapter. For THC continuous emission monitoring systems certified under Performance Specification 8A, conduct the relative accuracy test audits required under Procedure 1 in accordance with Performance Specification 8, Sections 8 and 11 using Method 25A in appendix A to 40 CFR part 60 as the reference method; the relative accuracy must meet the criteria of Performance Specification 8, Section 13.2.
- (2) Performance tests on alkali bypass and coal mill stacks must be conducted using Method 25A in appendix A to 40 CFR part 60 and repeated every 30 months.
- (j) Total organic HAP monitoring requirements. If you are complying with the total organic HAP emissions limits, you must continuously monitor THC according to paragraphs (i)(1) and (2) of this section or in accordance with Performance Specification 8 or Performance Specification 8A of appendix B to part 60 of this chapter and comply with all of the requirements for continuous monitoring systems found in the general provisions, subpart A of this part. You must operate and maintain each CEMS according to the quality assurance requirements in Procedure 1 of appendix F in part 60 of this chapter. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.
- (k) Mercury monitoring requirements. If you have a kiln subject to an emissions limitation on mercury emissions, you must





install and operate a mercury continuous emissions monitoring system (Hg CEMS) in accordance with Performance Specification 12A (PS 12A) of appendix B to part 60 of this chapter or an integrated sorbent trap monitoring system in accordance with Performance Specification 12B (PS 12B) of appendix B to part 60 of this chapter. You must monitor mercury continuously according to paragraphs (k)(1) through (5) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.

- (1) You must use a span value for any Hg CEMS that represents the mercury concentration corresponding to approximately two times the emissions standard and may be rounded up to the nearest multiple of 5 µg/m3 of total mercury or higher level if necessary to include Hg concentrations which may occur (excluding concentrations during in-line raw "mill off" operation). As specified in PS 12A, Section 6.1.1, the data recorder output range must include the full range of expected Hg concentration values which would include those expected during "mill off" conditions. Engineering judgments made and calculations used to determine the corresponding span concentration from the emission standard shall be documented in the site-specific monitoring plan and associated records.
- (2) In order to quality assure data measured above the span value, you must use one of the four options in paragraphs (k)(2)(i) through (iv) of this section.
- (i) Include a second span that encompasses the Hg emission concentrations expected to be encountered during "mill off" conditions. This second span may be rounded to a multiple of 5 μ g/m3 of total mercury. The requirements of PS 12A, shall be followed for this second span with the exception that a RATA with the mill off is not required.
- (ii) Quality assure any data above the span value by proving instrument linearity beyond the span value established in paragraph (k)(1) of this section using the following procedure. Conduct a weekly "above span linearity" calibration challenge of the monitoring system using a reference gas with a certified value greater than your highest expected hourly concentration or greater than 75 percent of the highest measured hourly concentration. The "above span" reference gas must meet the requirements of PS 12A, Section 7.1 and must be introduced to the measurement system at the probe. Record and report the results of this procedure as you would for a daily calibration. The "above span linearity" challenge is successful if the value measured by the Hg CEMS falls within 10 percent of the certified value of the reference gas. If the value measured by the Hg CEMS during the above span linearity challenge exceeds ±10 percent of the certified value of the reference gas, the monitoring system must be evaluated and repaired and a new "above span linearity" challenge met before returning the Hg CEMS to service, or data above span from the Hg CEMS must be subject to the quality assurance procedures established in paragraph (k)(2)(iii) of this section. In this manner all hourly average values exceeding the span value measured by the Hg CEMS during the week following the above span linearity challenge when the CEMS response exceeds ±20 percent of the certified value of the reference gas must be normalized using Equation 22.
- (iii) Quality assure any data above the span value established in paragraph (k)(1) of this section using the following procedure. Any time two consecutive 1-hour average measured concentrations of Hg exceeds the span value you must, within 24 hours before or after, introduce a higher, "above span" Hg reference gas standard to the Hg CEMS. The "above span" reference gas must meet the requirements of PS 12A, Section 7.1, must target a concentration level between 50 and 150 percent of the highest expected hourly concentration measured during the period of measurements above span, and must be introduced at the probe. While this target represents a desired concentration range that is not always achievable in practice, it is expected that the intent to meet this range is demonstrated by the value of the reference gas. Expected values may include "above span" calibrations done before or after the above span measurement period. Record and report the results of this procedure as you would for a daily calibration. The "above span" calibration is successful if the value measured by the Hg CEMS is within 20 percent of the certified value of the reference gas. If the value measured by the Hg CEMS exceeds 20 percent of the certified value of the reference gas, then you must normalize the one-hour average stack gas values measured above the span during the 24-hour period preceding or following the "above span" calibration for reporting based on the Hg CEMS response to the reference gas as shown in Equation 22. Only one "above span" calibration is needed per 24-hour period.
- (3) You must operate and maintain each Hg CEMS or an integrated sorbent trap monitoring system according to the quality assurance requirements in Procedure 5 of appendix F to part 60 of this chapter. During the RATA of integrated sorbent trap monitoring systems required under Procedure 5, you may apply the appropriate exception for sorbent trap section 2 breakthrough in (k)(3)(i) through (iv) of this section:
 - (i) For stack Hg concentrations >1 μg/dscm, =10% of section 1 mass;
 - (ii) For stack Hg concentrations =1 $\mu g/dscm$ and >0.5 $\mu g/dscm$, =20% of section 1 mass;
 - (iii) For stack Hg concentrations =0.5 µg/dscm and >0.1 µg/dscm, =50% of section 1 mass; and
- (iv) For stack Hg concentrations =0.1 μ g/dscm, no breakthrough criterion assuming all other QA/QC specifications are met.
- (4) Relative accuracy testing of mercury monitoring systems under PS 12A, PS 12B, or Procedure 5 must be conducted at normal operating conditions. If a facility has an inline raw mill, the testing must occur with the raw mill on.
- (5) If you use a Hg CEMS or an integrated sorbent trap monitoring system, you must install, operate, calibrate, and





maintain an instrument for continuously measuring and recording the exhaust gas flow rate to the atmosphere according to the requirements in paragraphs (n)(1) through (10) of this section. If kiln gases are diverted through an alkali bypass or to a coal mill and exhausted through separate stacks, you must account for the mercury emitted from those stacks by following the procedures in (k)(5)(i) through (iv) of this section:

- (i) Develop a mercury hourly mass emissions rate by conducting performance tests annually, within 11 to 13 calendar months after the previous performance test, using Method 29, or Method 30B, to measure the concentration of mercury in the gases exhausted from the alkali bypass and coal mill.
- (ii) On a continuous basis, determine the mass emissions of mercury in lb/hr from the alkali bypass and coal mill exhausts by using the mercury hourly emissions rate and the exhaust gas flow rate to calculate hourly mercury emissions in lb/hr.
- (iii) Sum the hourly mercury emissions from the kiln, alkali bypass and coal mill to determine total mercury emissions. Using hourly clinker production, calculate the hourly emissions rate in pounds per ton of clinker to determine your 30 day rolling average.
- (iv) If mercury emissions from the coal mill and alkali bypass are below the method detection limit for two consecutive annual performance tests, you may reduce the frequency of the performance tests of coal mills and alkali bypasses to once every 30 months. If the measured mercury concentration exceeds the method detection limit, you must revert to testing annually until two consecutive annual tests are below the method detection limit.
- (6) If you operate an integrated sorbent trap monitoring system conforming to PS 12B, you may use a monitoring period at least 24 hours but no longer than 168 hours in length. You should use a monitoring period that is a multiple of 24 hours (except during relative accuracy testing as allowed in PS 12B).
- (I) HCI Monitoring Requirements. If you are subject to an emissions limitation on HCI emissions in § 63.1343, you must monitor HCI emissions continuously according to paragraph (I)(1) or (2) and paragraphs (m)(1) through (4) of this section or, if your kiln is controlled using a wet or dry scrubber or tray tower, you alternatively may parametrically monitor SO2 emissions continuously according to paragraph (I)(3) of this section. You must also develop an emissions monitoring plan in accordance with paragraphs (p)(1) through (4) of this section.
- (1) If you monitor compliance with the HCI emissions limit by operating an HCI CEMS, you must do so in accordance with Performance Specification (PS) 15 or PS 18 of appendix B to part 60 of this chapter, or, upon promulgation, in accordance with any other performance specification for HCI CEMS in appendix B to part 60 of this chapter. You must operate, maintain, and quality assure a HCI CEMS installed and certified under PS 15 according to the quality assurance requirements in Procedure 1 of appendix F to part 60 of this chapter except that the Relative Accuracy Test Audit requirements of Procedure 1 must be replaced with the validation requirements and criteria of sections 11.1.1 and 12.0 of PS 15. If you choose to install and operate an HCI CEMS in accordance with PS 18, you must operate, maintain, and quality assure the HCI CEMS using the associated Procedure 6 of appendix F to part 60 of this chapter. For any performance specification that you use, you must use Method 321 of appendix A to this part as the reference test method for conducting relative accuracy testing. The span value and calibration requirements in paragraphs (I)(1)(i) and (ii) of this section apply to HCI CEMS other than those installed and certified under PS 15 or PS 18.
- (i) You must use a measurement span value for any HCI CEMS of 0-10 ppmw unless the monitor is installed on a kiln without an inline raw mill. Kilns without an inline raw mill may use a higher span value sufficient to quantify all expected emissions concentrations. The HCI CEMS data recorder output range must include the full range of expected HCI concentration values which would include those expected during "mill off" conditions. The corresponding data recorder range shall be documented in the site-specific monitoring plan and associated records.
- (ii) In order to quality assure data measured above the span value, you must use one of the three options in paragraphs (I)(1)(ii)(A) through (C) of this section.
- (A) Include a second span that encompasses the HCl emission concentrations expected to be encountered during "mill off" conditions. This second span may be rounded to a multiple of 5 ppm of total HCl. The requirements of the appropriate HCl monitor performance specification shall be followed for this second span with the exception that a RATA with the mill off is not required.
- (B) Quality assure any data above the span value by proving instrument linearity beyond the span value established in paragraph (I)(1)(i) of this section using the following procedure. Conduct a weekly "above span linearity" calibration challenge of the monitoring system using a reference gas with a certified value greater than your highest expected hourly concentration or greater than 75 percent of the highest measured hourly concentration. The "above span" reference gas must meet the requirements of the applicable performance specification and must be introduced to the measurement system at the probe. Record and report the results of this procedure as you would for a daily calibration. The "above span linearity" challenge is successful if the value measured by the HCI CEMS falls within 10 percent of the certified value of the reference gas. If the value measured by the HCI CEMS during the above span linearity challenge exceeds 10 percent of the





certified value of the reference gas, the monitoring system must be evaluated and repaired and a new "above span linearity" challenge met before returning the HCI CEMS to service, or data above span from the HCI CEMS must be subject to the quality assurance procedures established in paragraph (I)(1)(ii)(D) of this section. Any HCI CEMS above span linearity challenge response exceeding ±20 percent of the certified value of the reference gas requires that all above span hourly averages during the week following the above span linearity challenge must be normalized using Equation 23.

- (C) Quality assure any data above the span value established in paragraph (I)(1)(i) of this section using the following procedure. Any time two consecutive one-hour average measured concentration of HCI exceeds the span value you must, within 24 hours before or after, introduce a higher, "above span" HCI reference gas standard to the HCI CEMS. The "above span" reference gas must meet the requirements of the applicable performance specification and target a concentration level between 50 and 150 percent of the highest expected hourly concentration measured during the period of measurements above span, and must be introduced at the probe. While this target represents a desired concentration range that is not always achievable in practice, it is expected that the intent to meet this range is demonstrated by the value of the reference gas. Expected values may include above span calibrations done before or after the above-span measurement period. Record and report the results of this procedure as you would for a daily calibration. The "above span" calibration is successful if the value measured by the HCI CEMS is within 20 percent of the certified value of the reference gas, then you must normalize the stack gas values measured above span as described in paragraph (I)(1)(ii)(D) of this section.
- (D) In the event that the "above span" calibration is not successful (i.e., the HCI CEMS measured value is not within 20 percent of the certified value of the reference gas), then you must normalize the one-hour average stack gas values measured above the span during the 24-hour period preceding or following the `above span' calibration for reporting based on the HCI CEMS response to the reference gas as shown in Equation 23:

Only one "above span" calibration is needed per 24-hour period.

- (2) Install, operate, and maintain a CMS to monitor wet scrubber or tray tower parameters, as specified in paragraphs (m)(5) and (7) of this section, and dry scrubber, as specified in paragraph (m)(9) of this section.
- (3) If the source is equipped with a wet or dry scrubber or tray tower, and you choose to monitor SO2 emissions, monitor SO2 emissions continuously according to the requirements of § 60.63(e) and (f) of this chapter. If SO2 levels increase above the 30-day rolling average SO2 operating limit established during your performance test by 10 percent or more, you must:
- (i) As soon as possible but no later than 30 days after you exceed the established SO2 value conduct an inspection and take corrective action to return the SO2 emissions to within the operating limit; and
- (ii) Within 90 days of the exceedance or at the time of the next compliance test, whichever comes first, conduct an HCl emissions compliance test to determine compliance with the HCl emissions limit and to verify or re-establish the SO2 CEMS operating limit.
- (4) If you monitor continuous performance through the use of an HCI CPMS according to paragraphs (b)(6)(v)(A) through (H) of § 63.1349, for any exceedance of the 30 kiln operating day HCI CPMS average value from the established operating limit, you must:
 - (i) Within 48 hours of the exceedance, visually inspect the APCD;
- (ii) If inspection of the APCD identifies the cause of the exceedance, take corrective action as soon as possible and return the HCI CPMS measurement to within the established value; and
- (iii) Within 30 days of the exceedance or at the time of the annual compliance test, whichever comes first, conduct an HCl emissions compliance test to determine compliance with the HCl emissions limit and to verify or reestablish the HCl CPMS operating limit within 45 days. You are not required to conduct additional testing for any exceedances that occur between the time of the original exceedance and the HCl emissions compliance test required under this paragraph.
- (iv) HCI CPMS exceedances leading to more than four required performance tests in a 12-month process operating period (rolling monthly) constitute a presumptive violation of this subpart.
- (m) Parameter monitoring requirements. If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (m)(1) through (4) of this section by the compliance date specified in § 63.1351. You must also meet the applicable specific parameter monitoring requirements in paragraphs (m)(5) through (11) that are applicable to you.
- (1) The CMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.
- (2) You must conduct all monitoring in continuous operation at all times that the unit is operating.
- (3) Determine the 1-hour block average of all recorded readings.





- (4) Record the results of each inspection, calibration, and validation check.
- (5) Liquid flow rate monitoring requirements. If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (m)(5)(i) through (iv) of this section.
 - (i) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.
 - (ii) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.
 - (iii) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
 - (iv) Conduct a flow sensor calibration check at least semiannually.
- (6) Specific pressure monitoring requirements. If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (m)(6)(i) through (vi) of this section.
 - (i) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.
 - (ii) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.
- (iii) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.
 - (iv) Check pressure tap pluggage daily.
 - (v) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.
- (vi) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.
- (7) Specific pH monitoring requirements. If you have an operating limit that requires the use of a pH measurement device, you must meet the requirements in paragraphs (m)(7)(i) through (iii) of this section.
- (i) Locate the pH sensor in a position that provides a representative measurement of wet scrubber or tray tower effluent pH.
- (ii) Ensure the sample is properly mixed and representative of the fluid to be measured.
- (iii) Check the pH meter's calibration on at least two points every 8 hours of process operation.
- (8) [Reserved]
- (9) Mass flow rate (for sorbent injection) monitoring requirements. If you have an operating limit that requires the use of equipment to monitor sorbent injection rate (e.g., weigh belt, weigh hopper, or hopper flow measurement device), you must meet the requirements in paragraphs (m)(9)(i) through (iii) of this section. These requirements also apply to the sorbent injection equipment of a dry scrubber.
 - (i) Locate the device in a position(s) that provides a representative measurement of the total sorbent injection rate.
 - (ii) Install and calibrate the device in accordance with manufacturer's procedures and specifications.
 - (iii) At least annually, calibrate the device in accordance with the manufacturer's procedures and specifications.
- (10) Bag leak detection monitoring requirements. If you elect to use a fabric filter bag leak detection system to comply with the requirements of this subpart, you must install, calibrate, maintain, and continuously operate a BLDS as specified in paragraphs (m)(10)(i) through (viii) of this section.
 - (i) You must install and operate a BLDS for each exhaust stack of the fabric filter.
- (ii) Each BLDS must be installed, operated, calibrated, and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with the guidance provided in EPA-454/R-98-015, September 1997.
- (iii) The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 or fewer milligrams per actual cubic meter.
 - (iv) The BLDS sensor must provide output of relative or absolute PM loadings.
 - (v) The BLDS must be equipped with a device to continuously record the output signal from the sensor.
- (vi) The BLDS must be equipped with an alarm system that will alert an operator automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located such that the alert is detected and recognized easily by an operator.
- (vii) For positive pressure fabric filter systems that do not duct all compartments of cells to a common stack, a BLDS must be installed in each baghouse compartment or cell.
- (viii) Where multiple bag leak detectors are required, the system's instrumentation and alarm may be shared among detectors.
- (11) For each BLDS, the owner or operator must initiate procedures to determine the cause of every alarm within 8 hours of the alarm. The owner or operator must alleviate the cause of the alarm within 24 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:
- (i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;
 - (ii) Sealing off defective bags or filter media;
 - (iii) Replacing defective bags or filter media or otherwise repairing the control device;





- (iv) Sealing off a defective fabric filter compartment;
- (v) Cleaning the BLDS probe or otherwise repairing the BLDS; or
- (vi) Shutting down the process producing the PM emissions.
- (n) Continuous Flow Rate Monitoring System. You must install, operate, calibrate, and maintain instruments, according to the requirements in paragraphs (n)(1) through (10) of this section, for continuously measuring and recording the stack gas flow rate to allow determination of the pollutant mass emissions rate to the atmosphere from sources subject to an emissions limitation that has a pounds per ton of clinker unit and that is required to be monitored by a CEMS.
- (1) You must install each sensor of the flow rate monitoring system in a location that provides representative measurement of the exhaust gas flow rate at the sampling location of the mercury CEMS, taking into account the manufacturer's recommendations. The flow rate sensor is that portion of the system that senses the volumetric flow rate and generates an output proportional to that flow rate.
- (2) The flow rate monitoring system must be designed to measure the exhaust flow rate over a range that extends from a value of at least 20 percent less than the lowest expected exhaust flow rate to a value of at least 20 percent greater than the highest expected exhaust flow rate.
- (3) [Reserved]
- (4) The flow rate monitoring system must be equipped with a data acquisition and recording system that is capable of recording values over the entire range specified in paragraph (n)(2) of this section.
- (5) The signal conditioner, wiring, power supply, and data acquisition and recording system for the flow rate monitoring system must be compatible with the output signal of the flow rate sensors used in the monitoring system.
- (6) The flow rate monitoring system must be designed to complete a minimum of one cycle of operation for each successive 15-minute period.
- (7) The flow rate sensor must have provisions to determine the daily zero and upscale calibration drift (CD) (see sections 3.1 and 8.3 of Performance Specification 2 in appendix B to Part 60 of this chapter for a discussion of CD).
- (i) Conduct the CD tests at two reference signal levels, zero (e.g., 0 to 20 percent of span) and upscale (e.g., 50 to 70 percent of span).
- (ii) The absolute value of the difference between the flow monitor response and the reference signal must be equal to or less than 3 percent of the flow monitor span.
- (8) You must perform an initial relative accuracy test of the flow rate monitoring system according to Section 8.2 of Performance Specification 6 of appendix B to part 60 of the chapter with the exceptions in paragraphs (n)(8)(i) and (n)(8)(ii) of this section.
- (i) The relative accuracy test is to evaluate the flow rate monitoring system alone rather than a continuous emission rate monitoring system.
- (ii) The relative accuracy of the flow rate monitoring system shall be no greater than 10 percent of the mean value of the reference method data.
- (9) You must verify the accuracy of the flow rate monitoring system at least once per year by repeating the relative accuracy test specified in paragraph (n)(8).
- (10) You must operate the flow rate monitoring system and record data during all periods of operation of the affected facility including periods of startup, shutdown, and malfunction, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks and required zero and span adjustments).
- (o) Alternate monitoring requirements approval. You may submit an application to the Administrator for approval of alternate monitoring requirements to demonstrate compliance with the emission standards of this subpart subject to the provisions of paragraphs (o)(1) through (6) of this section.
- (1) The Administrator will not approve averaging periods other than those specified in this section, unless you document, using data or information, that the longer averaging period will ensure that emissions do not exceed levels achieved during the performance test over any increment of time equivalent to the time required to conduct three runs of the performance test.
- (2) If the application to use an alternate monitoring requirement is approved, you must continue to use the original monitoring requirement until approval is received to use another monitoring requirement.
- (3) You must submit the application for approval of alternate monitoring requirements no later than the notification of performance test. The application must contain the information specified in paragraphs (o)(3)(i) through (iii) of this section:
- (i) Data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach;
- (ii) A description of the proposed alternative monitoring requirement, including the operating parameter to be monitored,







the monitoring approach and technique, the averaging period for the limit, and how the limit is to be calculated; and

- (iii) Data or information documenting that the alternative monitoring requirement would provide equivalent or better assurance of compliance with the relevant emission standard.
- (4) The Administrator will notify you of the approval or denial of the application within 90 calendar days after receipt of the original request, or within 60 calendar days of the receipt of any supplementary information, whichever is later. The Administrator will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard. Before disapproving any alternate monitoring application, the Administrator will provide:
 - (i) Notice of the information and findings upon which the intended disapproval is based; and
- (ii) Notice of opportunity for you to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for you to provide additional supporting information.
- (5) You are responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Neither submittal of an application, nor the Administrator's failure to approve or disapprove the application relieves you of the responsibility to comply with any provision of this subpart.
- (6) The Administrator may decide at any time, on a case-by-case basis that additional or alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of this subpart.
- (p) Development and submittal (upon request) of monitoring plans. If you demonstrate compliance with any applicable emissions limit through performance stack testing or other emissions monitoring, you must develop a site-specific monitoring plan according to the requirements in paragraphs (p)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under paragraph (o) of this section and § 63.8(f). If you use a BLDS, you must also meet the requirements specified in paragraph (p)(5) of this section.
- (1) For each CMS required in this section, you must develop, and submit to the permitting authority for approval upon request, a site-specific monitoring plan that addresses paragraphs (p)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan, if requested, at least 30 days before your initial performance evaluation of your CMS.
- (i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);
- (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and
 - (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).
- (2) In your site-specific monitoring plan, you must also address paragraphs (p)(2)(i) through (iii) of this section.
- (i) Ongoing operation and maintenance procedures in accordance with the general requirements of § 63.8(c)(1), (c)(3), and (c)(4)(ii);
 - (ii) Ongoing data quality assurance procedures in accordance with the general requirements of § 63.8(d); and
- (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of § 63.10(c), (e)(1), and (e)(2)(i).
- (3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.
- (4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.
- (5) BLDS monitoring plan. Each monitoring plan must describe the items in paragraphs (p)(5)(i) through (v) of this section. At a minimum, you must retain records related to the site-specific monitoring plan and information discussed in paragraphs (m)(1) through (4), (m)(10) and (11) of this section for a period of 5 years, with at least the first 2 years on-site;
 - (i) Installation of the BLDS;
 - (ii) Initial and periodic adjustment of the BLDS, including how the alarm set-point will be established;
 - (iii) Operation of the BLDS, including quality assurance procedures;
 - (iv) How the BLDS will be maintained, including a routine maintenance schedule and spare parts inventory list;
 - (v) How the BLDS output will be recorded and stored.

[75 FR 55059, Sept. 9, 2010, as amended at 76 FR 2836, Jan. 18, 2011; 78 FR 10048, Feb. 12, 2013; 80 FR 44788, July 27, 2015; 80 FR 54729, Sept. 11, 2015; 81 FR 48361, July 25, 2016; 82 FR 28565, June 23, 2017; 82 FR 39673, Aug. 22, 2017; 83 FR 35133, July 25, 2018]

040 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1352]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry







Additional test methods.

- (a) If you are conducting tests to determine the rates of emission of HCl from kilns and associated bypass stacks at portland cement manufacturing facilities, for use in applicability determinations under §63.1340, you may use Method 320 or Method 321 of appendix A of this part.
- (b) Owners or operators conducting tests to determine the rates of emission of specific organic HAP from raw material dryers, and kilns at Portland cement manufacturing facilities, solely for use in applicability determinations under §63.1340 of this subpart are permitted to use Method 320 of appendix A to this part, or Method 18 of appendix A to part 60 of this chapter.

[75 FR 55063, Sept. 9, 2010, as amended at 78 FR 10053, Feb. 12, 2013]

041 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1353]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Notification requirements.

- (a) The notification provisions of 40 CFR part 63, subpart A that apply and those that do not apply to owners and operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a notice that contains all of the information required in a notification listed in this section, the owner or operator may send the Administrator a copy of the notice sent to the State to satisfy the requirements of this section for that notification.
- (b) Each owner or operator subject to the requirements of this subpart shall comply with the notification requirements in § 63.9 as follows:
- (1) Initial notifications as required by § 63.9(b) through (d). For the purposes of this subpart, a Title V or 40 CFR part 70 permit application may be used in lieu of the initial notification required under § 63.9(b), provided the same information is contained in the permit application as required by § 63.9(b), and the State to which the permit application has been submitted has an approved operating permit program under part 70 of this chapter and has received delegation of authority from the EPA. Permit applications shall be submitted by the same due dates as those specified for the initial notification.
 - (2) Notification of performance tests, as required by §§ 63.7 and 63.9(e).
- (3) Notification of opacity and visible emission observations required by § 63.1349 in accordance with §§ 63.6(h)(5) and 63.9(f).
- (4) Notification, as required by \S 63.9(g), of the date that the continuous emission monitor performance evaluation required by \S 63.8(e) is scheduled to begin.
 - (5) Notification of compliance status, as required by § 63.9(h).
- (6) Within 48 hours of an exceedance that triggers retesting to establish compliance and new operating limits, notify the appropriate permitting agency of the planned performance tests. The notification requirements of §§ 63.7(b) and 63.9(e) do not apply to retesting required for exceedances under this subpart.

[64 FR 31925, June 14, 1999, as amended at 78 FR 10053, Feb. 12, 2013]

042 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1354]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Reporting requirements.

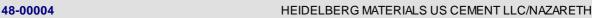
- (a) The reporting provisions of subpart A of this part that apply and those that do not apply to owners or operators of affected sources subject to this subpart are listed in Table 1 of this subpart. If any State requires a report that contains all of the information required in a report listed in this section, the owner or operator may send the Administrator a copy of the report sent to the State to satisfy the requirements of this section for that report.
- (b) The owner or operator of an affected source shall comply with the reporting requirements specified in § 63.10 of the general provisions of this part 63, subpart A as follows:
- (1) As required by § 63.10(d)(2), the owner or operator shall report the results of performance tests as part of the notification of compliance status.
- (2) As required by § 63.10(d)(3), the owner or operator of an affected source shall report the opacity results from tests required by § 63.1349.



- (3) As required by \S 63.10(d)(4), the owner or operator of an affected source who is required to submit progress reports as a condition of receiving an extension of compliance under \S 63.6(i) shall submit such reports by the dates specified in the written extension of compliance.
 - (4)-(5) [Reserved]

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- (6) As required by § 63.10(e)(2), the owner or operator shall submit a written report of the results of the performance evaluation for the continuous monitoring system required by § 63.8(e). The owner or operator shall submit the report simultaneously with the results of the performance test.
- (7) As required by § 63.10(e)(2), the owner or operator of an affected source using a continuous opacity monitoring system to determine opacity compliance during any performance test required under § 63.7 and described in § 63.6(d)(6) shall report the results of the continuous opacity monitoring system performance evaluation conducted under § 63.8(e).
- (8) As required by § 63.10(e)(3), the owner or operator of an affected source equipped with a continuous emission monitor shall submit an excess emissions and continuous monitoring system performance report for any event when the continuous monitoring system data indicate the source is not in compliance with the applicable emission limitation or operating parameter limit.
- (9) The owner or operator shall submit a summary report semiannually within 60 days of the reporting period to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). You must use the appropriate electronic report in CEDRI for this subpart. Instead of using the electronic report in CEDRI for this subpart, you may submit an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri), once the XML schema is available. If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, you must submit the report the Administrator at the appropriate address listed in §63.13. You must begin submitting reports via CEDRI no later than 90 days after the form becomes available in CEDRI. The excess emissions and summary reports must be submitted no later than 60 days after the end of the reporting period, regardless of the method in which the reports are submitted. The report must contain the information specified in §63.10(e)(3)(vi). In addition, the summary report shall include:
 - (i) All exceedances of maximum control device inlet gas temperature limits specified in §63.1346(a) and (b);
- (ii) Notification of any failure to calibrate thermocouples and other temperature sensors as required under §63.1350(g)(1)(iii) of this subpart; and
- (iii) Notification of any failure to maintain the activated carbon injection rate, and the activated carbon injection carrier gas flow rate or pressure drop, as applicable, as required under §63.1346(c)(2).
- (iv) Notification of failure to conduct any combustion system component inspections conducted within the reporting period as required under §63.1347(a)(3).
- (v) Any and all failures to comply with any provision of the operation and maintenance plan developed in accordance with §63.1347(a).
- (vi) For each PM CPMS, HCI, Hg, and THC CEMS, SO2 CEMS, or Hg sorbent trap monitoring system, within 60 days after the reporting periods, you must report all of the calculated 30-operating day rolling average values derived from the CPMS, CEMS, CMS, or Hg sorbent trap monitoring systems.
- (vii) In response to each violation of an emissions standard or established operating parameter limit, the date, duration and description of each violation and the specific actions taken for each violation including inspections, corrective actions and repeat performance tests and the results of those actions.
- (10) If the total continuous monitoring system downtime for any CEM or any CMS for the reporting period is 10 percent or greater of the total operating time for the reporting period, the owner or operator shall submit an excess emissions and continuous monitoring system performance report along with the summary report.
- (11)(i) You must submit the information specified in paragraphs (b)(11)(i)(A) and (B) of this section no later than 60 days following the initial performance test. All reports must be signed by a responsible official.
 - (A) The initial performance test data as recorded under §63.1349(a).
- (B) The values for the site-specific operating limits or parameters established pursuant to §63.1349(b)(1), (3), (6), (7), and (8), as applicable, and a description, including sample calculations, of how the operating parameters were established during the initial performance test.
- (C) As of December 31, 2011, and within 60 days after the date of completing each performance evaluation or test, as defined in §63.2, conducted to demonstrate compliance with any standard covered by this subpart, you must submit the relative accuracy test audit data and performance test data, except opacity data, to the EPA by successfully submitting the data electronically via CEDRI and by using the Electronic Reporting Tool (ERT) (see https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert). For any performance evaluations with no corresponding RATA pollutants listed on the ERT website, you must submit the results of the performance evaluation to the Administrator at the appropriate address listed in §63.13.





- (ii) For PM performance test reports used to set a PM CPMS operating limit, the electronic submission of the test report must also include the make and model of the PM CPMS instrument, serial number of the instrument, analytical principle of the instrument (e.g. beta attenuation), span of the instruments primary analytical range, milliamp value equivalent to the instrument zero output, technique by which this zero value was determined, and the average milliamp signals corresponding to each PM compliance test run.
- (12) All reports required by this subpart not subject to the requirements in paragraphs (b)(9) introductory text and (b)(11)(i) of this section must be sent to the Administrator at the appropriate address listed in §63.13. The Administrator or the delegated authority may request a report in any form suitable for the specific case (e.g., by commonly used electronic media such as Excel spreadsheet, on CD or hard copy). The Administrator retains the right to require submittal of reports subject to paragraphs (b)(9) introductory text and (b)(11)(i) of this section in paper format.
- (c) For each failure to meet a standard or emissions limit caused by a malfunction at an affected source, you must report the failure in the semi-annual compliance report required by §63.1354(b)(9). The report must contain the date, time and duration, and the cause of each event (including unknown cause, if applicable), and a sum of the number of events in the reporting period. The report must list for each event the affected source or equipment, an estimate of the amount of each regulated pollutant emitted over the emission limit for which the source failed to meet a standard, and a description of the method used to estimate the emissions. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.1348(d), including actions taken to correct a malfunction.

[64 FR 31925, June 14, 1999, as amended at 75 FR 55063, Sept. 9, 2010; 78 FR 10053, Feb. 12, 2013; 80 FR 44790, July 27, 2015; 83 FR 35135, July 25, 2018]

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1355]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Recordkeeping requirements.

- (a) The owner or operator shall maintain files of all information (including all reports and notifications) required by this section recorded in a form suitable and readily available for inspection and review as required by § 63.10(b)(1). The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site. The files may be maintained on microfilm, on a computer, on floppy disks, on magnetic tape, or on microfiche.
- (b) The owner or operator shall maintain records for each affected source as required by § 63.10(b)(2) and (b)(3) of this part; and
- (1) All documentation supporting initial notifications and notifications of compliance status under § 63.9;
- (2) All records of applicability determination, including supporting analyses; and
- (3) If the owner or operator has been granted a waiver under § 63.8(f)(6), any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements.
- (c) In addition to the recordkeeping requirements in paragraph (b) of this section, the owner or operator of an affected source equipped with a continuous monitoring system shall maintain all records required by § 63.10(c).
- (d) [Reserved]
- (e) You must keep records of the daily clinker production rates according to the clinker production monitoring requirements in § 63.1350(d).
- (f) You must keep records of the date, time and duration of each startup or shutdown period for any affected source that is subject to a standard during startup or shutdown that differs from the standard applicable at other times, and the quantity of feed and fuel used during the startup or shutdown period.
- (g)
- (1) You must keep records of the date, time and duration of each malfunction that causes an affected source to fail to meet an applicable standard; if there was also a monitoring malfunction, the date, time and duration of the monitoring







malfunction; the record must list the affected source or equipment, an estimate of the volume of each regulated pollutant emitted over the standard for which the source failed to meet a standard, and a description of the method used to estimate the emissions.

- (2) You must keep records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.1348(d) including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (h) For each exceedance from an emissions standard or established operating parameter limit, you must keep records of the date, duration and description of each exceedance and the specific actions taken for each exceedance including inspections, corrective actions and repeat performance tests and the results of those actions.

[64 FR 31925, June 14, 1999, as amended at 71 FR 76552, Dec. 20, 2006; 75 FR 55064, Sept. 9, 2010; 78 FR 10053, Feb. 12, 2013; 80 FR 44791, July 27, 2015; 81 FR 48362, July 25, 2016; 83 FR 35135, July 25, 2018]

044 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1356]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Sources with multiple emission limits or monitoring requirements.

If you have an affected source subject to this subpart with a different emissions limit or requirement for the same pollutant under another regulation in title 40 of this chapter, once you are in compliance with the most stringent emissions limit or requirement, you are not subject to the less stringent requirement. Until you are in compliance with the more stringent limit, the less stringent limit continues to apply.

[80 FR 44791, July 27, 2015]

045 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1358]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Implementation and enforcement.

- (a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as the applicable State, local, or Tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or Tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if this subpart is delegated to a State, local, or Tribal agency.
- (b) In delegating implementation and enforcement authority of this subpart to a State, local, or Tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency.
- (c) The authorities that cannot be delegated to State, local, or Tribal agencies are as specified in paragraphs (c)(1) through (4) of this section.
- (1) Approval of alternatives to the requirements in §§ 63.1340, 63.1342 through 63.1348, and 63.1351.
- (2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f), as defined in § 63.90, and as required in this subpart.
 - (3) Approval of major alternatives to monitoring under § 63.8(f), as defined in § 63.90, and as required in this subpart.
- (4) Approval of major alternatives to recordkeeping and reporting under § 63.10(f), as defined in § 63.90, and as required in this subpart.

[68 FR 37359, June 23, 2003]

046 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.4]

Subpart A--General Provisions

Prohibited activities and circumvention.

[From 40 CFR 63.4(b)]







- (a) Circumvention. No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to--
- (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere;
 - (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions; and
- (3) The fragmentation of an operation such that the operation avoids regulation by a relevant standard.

047 [40 CFR Part 98 Mandatory Greenhouse Gas Reporting §40 CFR 98.3] Subpart A - General Provision

What are the general monitoring, reporting, recordkeeping and verification requirements of this part?

The permittee shall comply with the applicable Mandatory Greenhouse Gas (GHG) Reporting requirements of 40 CFR Part 98 Section 98.3 through 98.3(i)(6).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

*** Permit Shield In Effect ***



48-00004



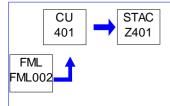
SECTION D. Source Level Requirements

Source ID: 401 Source Name: HAUCK HEATER

Source Capacity/Throughput: 6.000 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 07

GROUP 08



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







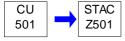
SECTION D. **Source Level Requirements**

Source ID: 501 Source Name: TERI HEATER

> Source Capacity/Throughput: 0.650 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 07

GROUP 08



RESTRICTIONS. I.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







SECTION D. Source Level Requirements

Source ID: 110 -3 Source Name: FINISH GRINDING MILL #1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

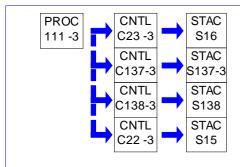




Source ID: 111 -3 Source Name: CEMENT SILO CIRCUIT #1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. **TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS. V.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 115 -3 Source Name: BULK TRUCK LOADING STATION NORTH

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 116 -3 Source Name: R.R. BULK LOADING STATION #1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 120 -3 Source Name: FINISH GRINDING MILL #2

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 121-3 Source Name: FINISH GRINDING MILL #3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 122-3 Source Name: FINISH GRINDING MILL #4

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



48-00004

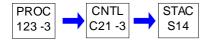


SECTION D. Source Level Requirements

Source ID: 123 -3 Source Name: FINISH GRINDING MILL #5

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



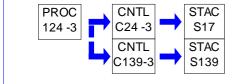




Source ID: 124 -3 Source Name: CEMENT SILO CIRCUIT #2

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



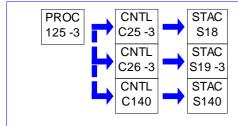




Source ID: 125 -3 Source Name: CEMENT SILO CIRCUIT #3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS. II.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



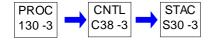




Source ID: 130 -3 Source Name: BULK TRUCK LOAD STATION SOUTH

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 132 -1 Source Name: TRUCK NO. 1 LOADOUT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

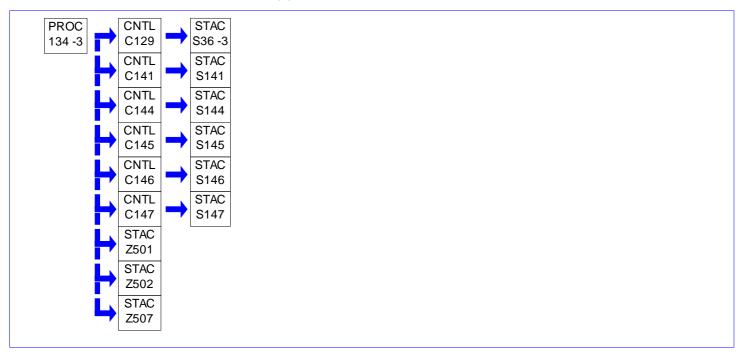




Source ID: 134 -3 Source Name: CLINKER SILO CIRCUIT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).







VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



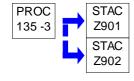




Source ID: 135 -3 Source Name: PLANT III -MISC. SOURCES (HAULROADS)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



48-00004

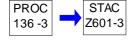


SECTION D. Source Level Requirements

Source ID: 136 -3 Source Name: PLANT III-MISC.STOCKPS & GYP SYS ELEV CONVY MAT STOCKPS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 137 -1 Source Name: CEMENT TRUCK NO. 2 LOADOUT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

48-00004

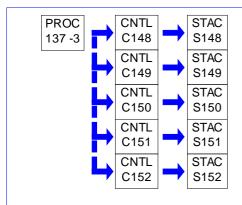


SECTION D. **Source Level Requirements**

Source Name: PLANT III - (CEMENT HANDLING) SILOS AND PACKING MACHINES Source ID: 137 -3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS. I.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 139 -3 Source Name: CLINKER DUMP HOPPER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 140 -1 Source Name: CONVEYOR 103

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 05



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



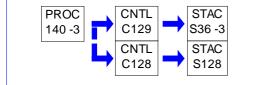




Source Name: CLINKER TRANSFER CONVEYOR FROM PLANT ITO PLANT III Source ID: 140 -3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





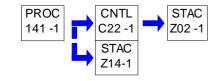


Source ID: 141 -1 Source Name: CONVEYOR 103 TO 104, & 117

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 05



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





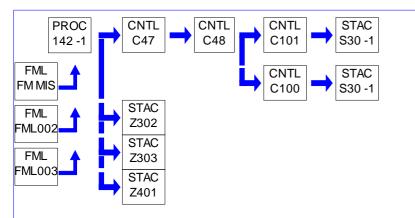


Source ID: 142 -1 Source Name: KILN SYSTEM - NORMAL MODE - 1,517,630 STPY

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 01

GROUP 07 GROUP 08



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ш **TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

001 [40 CFR Part 52 Approval And Promulgation of Implementation Plans §40 CFR 52.42]

Subpart A--General Provisions

What are the requirements of the Federal Implementation Plans (FIPs) relating to ozone season emissions of nitrogen





oxides from the Cement and Concrete Product Manufacturing Industry?

Beginning in the 2026 ozone season, the Kiln system at the Nazareth Plant will be subject to the following requirements:

- §52.42(c)(5) NOX limit of 2.8 lb/ton Clinker on a 30-day rolling average basis during the 2026 ozone season and in each ozone season thereafter;
- §52.42(d)(2) Operate a NOX CEMS to demonstrate compliance;
- §52.42(e) Maintain the following records for each operating day:
 - (1) Calendar date;
 - (2) The average hourly NOX emissions rates measured or predicted;
- (3) The 30-day average NOX emissions rates calculated at the end of each affected unit operating day from the measured or predicted hourly NOX emissions rates for the preceding 30 operating days;
- (4) Identification of the affected unit operating days when the calculated 30-day average NOX emissions rates are in excess of the applicable site-specific NOX emissions limit with the reasons for such excess emissions as well as a description of corrective actions taken;
- (5) Identification of the affected unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
- (6) Identification of the times when emissions data have been excluded from the calculation of average emissions rates and the reasons for excluding data;
 - (7) If a CEMS is used to verify compliance:
 - (i) Identification of the times when the pollutant concentration exceeded full span of the CEMS;
- (ii) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3 in appendix B to 40 CFR part 60; and
- (iii) Results of daily CEMS drift tests and quarterly accuracy assessments as required under Procedure 1 of 40 CFR part 60, appendix F;
 - (8) N/A CEMS is used
- (9) Each fuel type, usage, and heat content; and
- (10) Clinker production rates.
- §52.42(f) Submit the following reports via CEDRI
 - o CEMS Performance evaluations within 60 days of completion;
 - o Submit excess emissions reports for any excess emissions that occurred during the reporting period; and
- o Submit an annual report by January 30th of each year which includes records all records required by §52.42(d), including records of CEMS data.
- §52.42(g) Submit an initial notification through CEDRI by December 4, 2023.

*** Permit Shield in Effect. ***



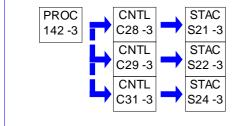




Source ID: 142 -3 Source Name: ROTORY PACKER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS. II.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



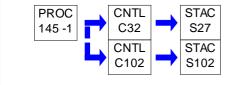




Source ID: 145 -1 Source Name: RAW MATERIAL BLENDING SILO 309

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



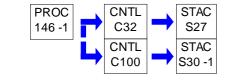




Source ID: 146 -1 Source Name: RAW MATERIAL BLENDING SILO 307/308

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 147 -1 Source Name: KILN PREHEATER FEED SYSTEM

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



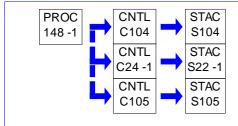




Source ID: 148 -1 Source Name: CLINKER LOADOUT STATION

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



48-00004

RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS. II.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



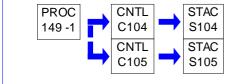




Source Name: CLINKER STORAGE SILOS 601 & 603 Source ID: 149 -1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



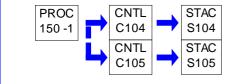




Source ID: 150 -1 Source Name: GYPSUM STORAGE SILO 602

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 151 -1 Source Name: ROLL PRESS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



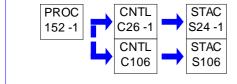




Source ID: 152-1 Source Name: FINISH MILL & SEPARATOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





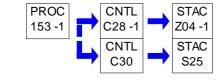


Source ID: 153 -1 Source Name: RAW MATERIAL CONVEYOR 109-110

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 05



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





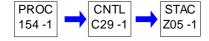


Source ID: 154-1 Source Name: RAW MATERIAL CONVEYOR 110-112

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 05



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





Source ID: 155 -1 Source Name: RAW MATERIAL UNLOAD (EXCEPT STONE)

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).







VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 156 -1 Source Name: RAW MAT. TRANSFER CONVYS. 147/148/149 SOLID FUEL AND CLINKER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

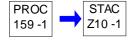




Source ID: 159 -1 Source Name: SPECIAL CLINKER HOPPER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



48-00004

RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





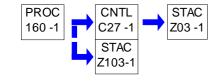


Source ID: 160 -1 Source Name: RAW MATERIAL CONVEYOR 108-109 & STONE HOPPER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 05



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

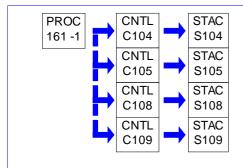




Source ID: 161 -1 Source Name: NEW CLINKER SILO CONVEYOR #521/#522

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. **TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS. V.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



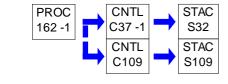




Source ID: 162 -1 Source Name: NEW CLINKER SILO #524

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



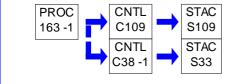




Source ID: 163 -1 Source Name: CLINKER SILO #544

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

48-00004

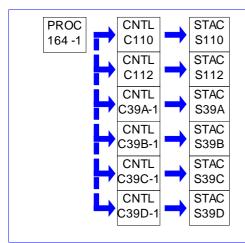


SECTION D. **Source Level Requirements**

Source ID: 164 -1 Source Name: CEMENT STORAGE SILOS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS. Ι.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).





*** Permit Shield in Effect. ***

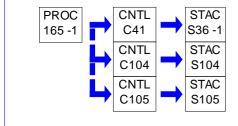




Source ID: 165 -1 Source Name: BUCKET CONVEYOR #501

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS. II.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS. IV.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

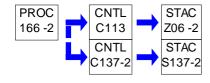
*** Permit Shield in Effect. ***





Source ID: 166 -2 Source Name: PLANT II QUARRY OPERATIONS (CRUSHER)

Source Capacity/Throughput:



RESTRICTIONS. L

Emission Restriction(s).

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Pursuant to the provisions of 25 PA Code Section 123.1, there shall be no fugitive air contaminants from the operation of this source.

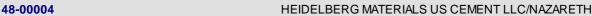
002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672] Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants Standard for particulate matter.

- (a) Affected facilities must meet the stack emission limits and compliance requirements in Table 2 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.8. The requirements in Table 2 of this subpart apply for affected facilities with capture systems used to capture and transport particulate matter to a control device.
- (b) Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.
- (c) [Reserved]
- (d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.
- (e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) and (b) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:
- (1) Fugitive emissions from the building openings (except for vents as defined in § 60.671) must not exceed 7 percent opacity; and
- (2) Vents (as defined in § 60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of this subpart.
- (f) Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of this subpart but must meet the applicable stack opacity limit and compliance requirements in Table 2 of this subpart. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

TABLE 2 to Subpart OOO of Part 60—Stack Emission Limits for Affected Facilities With Capture Systems

For * * Affected facilities (as defined in §§ 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008

The owner or operator must meet a PM limit of * * *





*** 0.05 g/dscm (0.022 gr/dscf) a

And the owner or operator must meet an opacity limit of * * *

*** 7 percent for dry control devices b

The owner or operator must demonstrate compliance with these limits by conducting * * *

*** An initial performance test according to § 60.8 of this part and § 60.675 of this subpart; and Monitoring of wet scrubber parameters according to § 60.674(a) and § 60.676(c), (d), and (e).

Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008.

The owner or operator must meet a PM limit of * * *

*** 0.032 g/dscm (0.014 gr/dscf) a

And the owner or operator must meet an opacity limit of * * *

*** Not applicable (except for individual enclosed storage bins) 7 percent for dry control devices on individual enclosed storage bins.

The owner or operator must demonstrate compliance with these limits by conducting * * *

- *** An initial performance test according to § 60.8 of this part and § 60.675 of this subpart; and Monitoring of wet scrubber parameters according to § 60.674(a) and § 60.676(c), (d), and (e); and Monitoring of baghouses according to § 60.674(c), (d), or (e) and § 60.676(b).
- a Exceptions to the PM limit apply for individual enclosed storage bins and other equipment. See § 60.672(d) through (f). b The stack opacity limit and associated opacity testing requirements do not apply for affected facilities using wet scrubbers.

TABLE 3 to Subpart OOO of Part 60—Fugitive Emission Limits

For Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008 * * *

The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§ 60.670 and 60.671)

- *** 10 percent opacity.
- * * The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *
- *** 15 percent opacity.

The owner or operator must demonstrate compliance with these limits by conducting * * *

*** An initial performance test according to § 60.11 of this part and § 60.675 of this subpart.

Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008

- *** 7 percent opacity.
- * * The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *
- *** 12 percent opacity.
- *** An initial performance test according to § 60.11 of this part and § 60.675 of this subpart; and Periodic inspections of water sprays according to § 60.674(b) and § 60.676(b); and

A repeat performance test according to § 60.11 of this part and § 60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water







carryover from upstream water sprays that are inspected according to the requirements in § 60.674(b) and § 60.676(b) are exempt from this 5-year repeat testing requirement.

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

MONITORING REQUIREMENTS. III.

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The fabric collectors (baghouses) must be equipped with a device for monitoring the pressure differential across the fabric collectors.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674] Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants Monitoring of operations.

- (a) Any permittee which uses a water spray dust suppression system to control emissions shall install, calibrate, maintain and operate the following monitoring device:
- (1) A water gauge pressure for the continuous measurement of the water pressure. The monitoring device must be calibrated on an annual basis in accordance with manufacturer's instructions.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Recordkeeping and reporting requirements are as follows:

(a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this Operating Permit. The file shall include, but not be limited to: all air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit. All measurements, records and other data required to be maintained by the company shall be retained for at least five (5) years following the date on which such measurements, records or data are recorded.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676] Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

Pursuant to the federal New Source Performance Standards under 40 CFR § 60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. Copies of all the documents shall be submitted to:

Enforcement & Compliance Assurance Division Air, RCRA and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, PA 19103-2852





V. REPORTING REQUIREMENTS.

007 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The non-metallic mineral processing plants are subject to 40 CFR 60 Subpart OOO of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart.

40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Enforcement & Compliance Assurance Division Air, RCRA and Toxics Branch (3ED21) Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, PA 19103-2852

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676] Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants Reporting and recordkeeping.

- (a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
 - (1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and
 - (ii) The rated capacity in tons per hour of the replacement equipment.
 - (2) For a screening operation:
 - (i) The total surface area of the top screen of the existing screening operation being replaced and
 - (ii) The total surface area of the top screen of the replacement screening operation.
 - (3) For a conveyor belt:
 - (i) The width of the existing belt being replaced and
 - (ii) The width of the replacement conveyor belt.
 - (4) For a storage bin:
 - (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and
 - (ii) The rated capacity in megagrams or tons of replacement storage bins.
- (b)(1) Owners or operators of affected facilities (as defined in §§60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under §60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.
- (2) For each bag leak detection system installed and operated according to §60.674(d), the owner or operator must keep the records specified in paragraphs (b)(2)(i) through (iii) of this section.
 - (i) Records of the bag leak detection system output;
- (ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and
- (iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.
- (3) The owner or operator of each affected facility demonstrating compliance according to §60.674(e) by following the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR part 63, subpart AAAAA) must maintain records of visible emissions observations required by §63.7132(a)(3) and (b) of 40 CFR part 63, subpart AAAAA.







- (c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.
- (d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss and liquid flow rate decrease by more than 30 percent from the average determined during the most recent performance test.
- (e) The reports required under paragraph (d) of this section shall be postmarked within 30 days following end of the second and fourth calendar quarters.
- (f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, appendix A-4) to demonstrate compliance with §60.672(b), (e) and (f).
- (g) The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in §60.672(b) and the emission test requirements of §60.11.
- (h) The subpart A requirement under §60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart.
- (i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.
- (1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
- (2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.
- (j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.
- (k) Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to §60.4(b).

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The pressure differential across the baghouses shall be recorded on a daily basis while the plant is operating. The permittee shall retain these records for a minimum of five (5) years and shall be made available to the Department upon request.
- (b) Dust collected in the baghouse filters shall be discharged into closed containers only.
- (c) The permittee shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse associated with this source in order to be able to immediately replace any bags/filters requiring replacement due to deterioration resulting from routine operation of the source and baghouse.
- (d) The permittee shall maintain and operate the air pollution control equipment and sources in accordance with good engineering practice.





#010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

If at any time the Department determines that the operation of the new grizzly screen feeder is causing the emissions of fugitive air contaminants in excess of the limitations specified in Section 123.1, the company shall immediately cease operation of the aforementioned source. The aforementioned source cannot resume operation until a fabric collector has been installed to reduce the said emissions to within the limitations specified in Section 123.1.

[25 Pa. Code §127.512]

Operating permit terms and conditions.

All material processed through the Nazareth Plant II portable primary crusher and /or grizzly screen feeder shall only go to Nazareth Plant I.

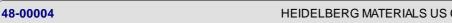
012 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) Water spray dust suppression systems on nonmetallic mineral processing plants shall be operated on any and all occasions that the respective plant is operated, except in those unusual instances where processed materials contain sufficient moisture such that operation of the plant without the simultaneous operation of the water spray dust suppression system can take place without creating air contaminant emissions in excess of the limitations and standards of this operating permit. If, however, the water spray dust suppression system is incapable of operation due to weather conditions or any other reason the plant may not operate at all.
- (1) The company shall keep on hand a sufficient quantity of spare nozzles in order to be able to immediately replace any nozzles.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670] Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants Applicability and designation of affected facility.

- § 60.670 Applicability and designation of affected facility.
- (a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.
- (2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; plants without crushers or grinding mills above ground; and wet material processing operations (as defined in § 60.671).
- (b) An affected facility that is subject to the provisions of subparts F or I of this part or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.
- (c) Facilities at the following plants are not subject to the provisions of this subpart:
- (1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 23 megagrams per hour (25 tons per hour) or less;
- (2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 136 megagrams per hour (150 tons per hour) or less; and
- (3) Common clay plants and pumice plants with capacities, as defined in § 60.671, of 9 megagrams per hour (10 tons per hour) or less.
- (d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in § 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt





from the provisions of §§ 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

- (2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in § 60.676(a).
- (3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§ 60.672, 60.674 and 60.675.
- (e) An affected facility under paragraph (a) of this section that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this part.
- (f) TABLE 1 of this subpart specifies the provisions of subpart A of this part 60 that do not apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions.

TABLE 1 to Subpart OOO of Part 60—Exceptions to Applicability of Subpart A to Subpart OOO

Subpart A reference *** Applies to subpart OOO *** Explanation

60.4, Address

- *** Yes
- *** Except in § 60.4(a) and (b) submittals need not be submitted to both the EPA Region and delegated State authority (§ 60.676(k)).
- 60.7, Notification and recordkeeping
- *** Except in (a)(1) notification of the date construction or reconstruction commenced (§ 60.676(h)).

- *** Also, except in (a)(6) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (§ 60.675(g)).
- 60.8. Performance tests
- *** Yes
- *** Except in (d) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (§ 60.675(g)).
- 60.11. Compliance with standards and maintenance requirements
- *** Yes
- *** Except in (b) under certain conditions (§§ 60.675(c)), Method 9 (40 CFR part 60, Appendix A-4) observation is reduced from 3 hours to 30 minutes for fugitive emissions.
- 60.18, General control device
- *** No Flares will not be used to comply with the emission limits.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***





Source Name: COAL OPERATIONS Source ID: 168 -1

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 06



RESTRICTIONS. I.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 169-1 Source Name: CLINKER COOLER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 02



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

48-00004

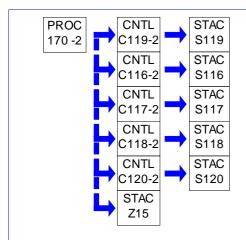


SECTION D. Source Level Requirements

Source ID: 170 -2 Source Name: PLANT II - CEMENT SILO

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).





*** Permit Shield in Effect. ***



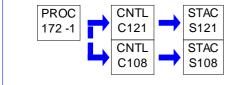




Source ID: 172 -1 Source Name: CLINKER SILO DISCHARGE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

WORK PRACTICE REQUIREMENTS. VI.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

ADDITIONAL REQUIREMENTS. VII.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



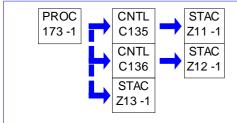


Source ID: 173 -1 Source Name: PLANT I - MISC. ROADS & STOCK PILES

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 04



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 176 -1 Source Name: CEMENT TRUCK LOADOUT #3

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Source ID: 177A-1 Source Name: CONVEYOR 105 - LONG BELT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***

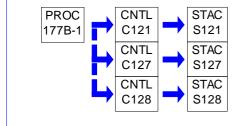




Source ID: 177B-1 Source Name: PLANT CONVEYOR - CLINKER

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



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SECTION D. Source Level Requirements

Source ID: 202 Source Name: ALKALINE REAGENT STORAGE BIN

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***



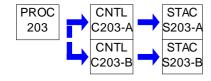


Source ID: 203 Source Name: ENGINEERED FUEL RECEIVING DOSING CONVEYING SYSTEM

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 03

GROUP 09



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology provision of 25 PA Code, Sections 127.1 and 127.12, the PM emissions from the baghouses are subject to the following emission limitations:

(1) 0.01 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

If at any time the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be in excess of the limitations specified in, or established to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the revisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The company shall ensure that the control devices be equipped with vendor specified monitoring equipment and the mechanical gauges specified shall be installed, calibrated, operated, and maintained according to the vendor's specifications at all times the control devices are in use.

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Mechanical gauges shall be installed and maintained to indicate, in inches of water column, the static pressure differential across the baghouses.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall record the pressure differential across the baghouses. At a minimum these recordings shall be taken once per week, while the sources and baghouses are in operation. The recordings shall be maintained in a logbook and made available to the Department upon request.





006 [25 Pa. Code §127.512]

48-00004

Operating permit terms and conditions.

The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this operating permit. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this operating permit. All measurements, records and other data required to be maintained by the company shall be retained for at least two years following the date on which such measurements, records or data are recorded.

REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) Dust collected in the baghouse filters shall be discharged into closed containers only.
- (b) The company shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouses associated with the aforementioned sources in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and baghouses.
- (c) The aforementioned sources may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in this operating permit as approved by the Department and in accordance with any conditions set forth herein.

008 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) Open topped trucks shall be denied access. Notice of this requirements shall be conspicuously posted.
- (b) All equipment associated with enginnered fuel receiving operations, which are not entirely located inside a building, shall be fully enclosed.

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

In Plant Roads & Trucks

In order to prevent fugitive particulate matter resulting from the use of the in plant roads from becoming airborne, the company shall adhere to the following plan:

- 1. All paved in plant roads shall be swept on as-needed basis, weather permitting.
- 2. Water and/or chemicals to be applied on all paved and unpaved inplant roads as needed to control the fugitive emissions.
- 3. The company shall keep a log of the dates of road sweeping or cleaning.

010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The company shall keep on hand such equipment and materials as are necessary to take reasonable action (including but not necessarily limited to the application of water, oil or chemicals) to prevent fugitive particulate matter resulting from the use of any roadways and/or material stockpiling operations associated with the plant from becoming airborne and shall be







used, as necessary, to prevent such fugitive particulate matter from becoming airborne.

011 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Control of fugitive particulate matter emissions from the vehicle used to transport engineered fuel may include, but is not limited to the following measures:

- 1. Use of completely enclosed vehicles.
- 2. Tarping the vehicle;
- 3. Maintaining the vehicle body in such a condition that any leaks of material are prevented;
- 4. Spraying the materials in the vehicle with a chemical dust suppressant;
- 5. Washing and dewatering truck tires and underbody.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***





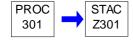


Source ID: 301 Source Name: EMERGENCY GENERATOR - 1140 HP CAT399

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 07

GROUP 08



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

*** Permit Shield in Effect. ***







Group Name: GROUP 01

Group Description: PLANT I - KILN SYSTEM

Sources included in this group

ID	Name			
142 -1 KILN SYSTEM - NORMAL MODE - 1,517,630 STPY				
C100 BAGHOUSE #203 - ROLLER MILL/KILN SYSTEM				
C101 BAGHOUSE #260 - KILN SYSTEM				
C47 SNCR				
C48	DRY LIME INJECTION			

I. RESTRICTIONS.

Source

Emission Restriction(s).

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology provision of 25 PA Code, Chapter 127.83, the kiln system is subject to the following Carbon Monoxide (CO) emission limitations:

Source Allowable Pounds per hour

1- hour Average 8-hour average, rolling by one hour

Allowable

Kiln stack (KS1) 5,806.8 lb/hr 5,806.8 lb/hr

Pollutant

3,648.14 Tons per year, rolling monthly.

The above listed emission limitations were obtained from Plan Approval No. 48-309-126 issued May, 10, 2010.

(b) Pursuant to the US EPA Concent decree Section VI, the kiln is subject to the following air contaminant emission limitations:

				gg		
	Kiln stack (KS1)	NOx	2.30 lb./ton clinker	30 day rolling avg. per CONSENT DECREE 12/29/2011.		
	Kiln stack (KS1)	NOx	2.36 lb.NOx/ton clink	er 30-day rolling basis per RACT 2 and RACT 3.		
COMPLIANCE WITH THE CONSENT DECREE LIMIT WILL ENSURE COMLIANCE WITH THE RACT 2 and RACT 3 LIMIT.						
	Kiln stack (KS1)	VOC	PC MACT THC LIMIT	Г		
	Kiln stack (KS1)	SO2	1.8 lb./ton clinker	30 day rolling average per COSENT DECREE 12/29/2011.		
Kiln stack (KS1) SO2		500 ppm by volume, dry gas basis 1- hour average, block				
Kiln stack (KS1) Particulate M		Matter 0.07 lb./ton c	linker (0.007 grains/dscf) PC MACT PM LIMIT.			

Averaging Time

002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12 (a) (5), the permittee shall operate the SNCR systems in such a manner that the amount of excess ammonia in the exhaust (ammonia slip) is minimized while still meeting the NOx emission limit as stated in this operating permit. Within 90 days of completion of the testing, Lehigh Cement shall submit to the Department a proposed permanent ammonia slip limit. Once Lehigh Cement has submitted the proposed limit to the Dept., the company shall comply with the ammonia slip limit proposed therein until





that limit is approved or modified by the Department.

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The following allowable emission limits are established for the operation of the preheater cement kiln in the normal mode:

(a) Visible air contaminants shall not be emitted in such a manner that the opacity of the emissions is equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any hour; or equal to or greater than 60% at any time in accordance with 25 PA Code Section 123.41..

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The comany shall not exceed following Projected actual emissions from the facility form source lds142-1, and 203 in any one of the 5 years (12-month period) following the date the units resumes regular operation after the project.

Pollutant	PAE (tp
PM	53.11
PM10	391.47
PM2.5	391.47
SO2	763.3
VOC	63.64
CO	3547.55
NOx	1417.8
Fluorides	0.68
Lead	0.06

005 [25 Pa. Code §145.143.]

Standard requirements.

- (a) By October 31, 2005, and each year thereafter, the owner or operator of a Portland Cement Kiln shall calculate the difference between the actual emissions from the unit during the period from May 1 through September 30 and the allowable emissions for that period.
- (b) The owner or operator of a Portland cement kiln may not operate a Portland Cement Kiln in a manner that results in NOx emissions in excess of its allowable emissions, except as otherwise specified in this section.
 - (1) NA
- (2) Beginning May 1 through September 30, 2011, and each year thereafter, the owner or operator of a Portland cement kiln shall determine allowable emissions of NOx by multiplying the tons of clinker produced by the Portland cement kiln for the period by:
 - (i) NA.
 - (ii) NA.
 - (iii) 2.36 pounds of NOx per ton of clinker produced for:
 - (A) Preheater cement kilns.
 - (B) Precalciner cement kilns.
- (c) The owner or operator of a Portland cement kiln subject to subsection (b)(1) shall install and operate a CEMS, and shall report CEMS emissions data, in accordance with the CEMS requirements of either Chapter 139 or 145 (relating to sampling and testing; and interstate pollution transport reduction) and calculate actual emissions using the CEMS data reported to the Department. Any data invalidated under Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.







- (d) N/A.
- (e) If the combined allowable emissions from Portland cement kilns at a facility from May 1 through September 30 exceed the combined actual emissions from Portland cement kilns subject to this section at the facility during the same period, the owner or operator may deduct the difference or any portion of the difference from the amount of actual emissions from Portland cement kilns at the owner or operator's other facilities located in this Commonwealth for that period.
- (f) By November 1, 2005, and each year thereafter, an owner or operator subject to this subchapter shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account, as defined in § 121.1 (relating to definitions), and shall provide in writing to the Department, the following:
 - (1) The serial number of each NOx allowance surrendered.
 - (2) The calculations used to determine the quantity of NOx allowances required to be surrendered.
- (g) If an owner or operator fails to comply with subsection (f), the owner or operator shall by December 31 surrender three NOx allowances of the current or later year vintage for each NOx allowance that was required to be surrendered by November 1.
- (h) The surrender of NOx allowances under subsection (g) does not affect the liability of the owner or operator of the Portland cement kiln for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.
- (1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the owner or operator of the Portland cement kiln demonstrates that a lesser number of days should be considered.
 - (2) Each ton of excess emissions is a separate violation.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1343]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

What standards apply to my kilns, clinker coolers, raw material dryers, and open clinker piles?

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1343 (Please refer to SECTION C - Site Level Requirements).

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1348]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Compliance requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1348 (Please refer to SECTION C - Site Level Requirements).

Fuel Restriction(s).

008 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The use of engineered fuel shall not exceed the following:
 - (i) 36,000 tons per year based on a 12 month rolling sum period.
- (b) The permittee shall install and maintain the necessary meter(s) to determine and to record amount of engineered fuel usage.

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The company shall not use engineered fuel that does not meet the legitimacy criteria as defined under 40 CFR §241.3.







Throughput Restriction(s).

010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The facility is restricted to the following clinker production limits:
- (1) Maximum clinker production no more than 1,517,603 tons per year based on 365 days rolling sum.
- (2) Maximum clinker production no more than 424 tons per hour based on 30 day average, rolling by daily.
- (3) Maximum clinker production no more than 10,174 tons per day based on 24 hour rolling sum.
- (4) All references made in the Operating Permit for tons are short ton (2000 lb/ton).

II. TESTING REQUIREMENTS.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1349]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Performance testing requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1349 (Please refer to SECTION C - Site Level Requirements).

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1352]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Additional test methods.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1352 (Please refer to SECTION C - Site Level Requirements).

III. MONITORING REQUIREMENTS.

013 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Continuous monitoring requirements are as follows:

(a) Continuous Emission Monitoring Requirements

The following continuous emission monitoring systems (CEMS) must be installed, approved by the Department, operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Submittal and Approval", "Record Keeping and Reporting", and "Quality Assurance" requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

- (1) CEMS for sulfur oxides, nitrgen oxides, carbon monoxide, carbon dioxide, oxygen, stack flow, and opacity.
- (a) Source Combination to be Monitored: Source ID No. 142-1.
- (b) Parameter to be Reported: SO2, NO2, CO, CO2, Opacity.
- (c) Units of Measurement to be Reported: lbs/hr, Btu/hr, ppm, %.
- (d) Moisture Basis of Measurement to be Reported: NA
- (e) Correction basis of Measurements to be Reported: None
- (f) Data Substitution Required: Yes, as approved by the Department.
- (g) Emission Standards: Emission Restrictions listed in Condition #001 with Averaging Period Description, Emission Standard Value.
- (h) Continuous emission monitors for carbon dioxide shall be operated and maintained in accordance with the facility's

Greenhouse gas (GHG) monitoring plan.

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.





014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The fabric collectors (baghouses) must be equipped with a device for monitoring the pressure differential across the fabric collectors.

015 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall adhere to the following sampling plan for engineered fuel:

- (a) A grab sample (as-fired) shall be obtained from the fuel feed every shift for a total of 21 grab samples per 7-day period. The 21 samples shall be composited into one sample.
- (b) The weekly composite sample (as-fired) shall be analyzed for the following: heat value (Btu/lb), chlorine content (% by weight), lead (ppm), manganese (ppm), nickel (ppm), silver (ppm), thallium (ppm), antimony (ppm), arsenic (ppm), copper (ppm), mercury (ppm), selenium (ppm), barium (ppm), beryllium (ppm), cadmium (ppm), chromium (ppm), cobalt (ppm) and zinc (ppm).
- (c) Result obtained from the analysis shall be compared with traditional fuel analysis to demonstrate that the engineeried fuel meets the legitimacy criteria of 40 CFR §241.3 to be considered a "non-waste" fuel.
- (d) In accordance with the requirements as stated in 40 CFR §241.2, the company shall keep sufficient documents to show that the fuel processing, as operations that transfer NHSM into a non-waste fuel including operations necessary to remove or destroy contaminants, significantly improves the fuel characteristics (such as sizing or dying of the material), chemically improve the as-fired energy content, or improve the ingredient characteristics.

The EF is sufficiently processed by the anticipated EF suppliers to meet this requirement.

016 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- 1. The owner or operator shall monitor the emissions of the regulated pollutant for which a limit is established in this Operating Permit condition above and calculate and maintain a record of emissions, in TPY on a calendar year basis, for 5 years following resumption of regular operations after the change,
- 2. The owner or operator shall record sufficient information to identify for all emission units in the operating permit, their total actual annual emissions and their actual annual emissions increase due to the project.
- 3. The owner or operator shall submit a report to the Department, within 60 days after the end of each calendar year, which contains the emissions data required by clauses above. This report must also contain a demonstration of how these emissions were determined if the determination was not by direct measurement with a Department-certified CEMS system.

017 [25 Pa. Code §145.144.]

Compliance determination.

- (a) By April 15, 2011, the owner or operator of a Portland cement kiln subject to § 145.143(b)(2) (relating to standard requirements) shall:
 - (1) Install, operate and maintain CEMS for NOx emissions.
- (2) Report CEMS emissions data, in accordance with the CEMS requirements of Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), to the Department.
 - (3) Calculate actual emissions using the CEMS data reported to the Department.
- (b) If approved by the Department in writing, data invalidated under Chapter 139, Subchapter C, shall be substituted with one of the following:
- (1) The highest valid 1-hour emission value that occurred under similar source operating conditions during the reporting quarter for an invalid data period during that quarter.
 - (2) If no valid data were collected during the reporting quarter, one of the following shall be reported to the Department:
- (i) The highest valid 1-hour emission value that occurred under similar source operating conditions during the most recent quarter for which valid data were collected.
 - (ii) The highest valid 1-hour emission value that occurred under similar source operating conditions during an







alternative reporting period.

- (3) An alternative method of data substitution.
- (c) The owner or operator of a Portland cement kiln subject to this section shall submit to the Department quarterly reports of CEMS monitoring data in pounds of NOx emitted per hour, in a format approved by the Department, which is in compliance with Chapter 139, Subchapter C.
- (d) The CEMS for NOx installed under the requirements of this section must meet the minimum data availability requirements in Chapter 139, Subchapter C.

Authority

The provisions of this § 145.144 issued under section 5(a)(1) of the Air Pollution Control Act (35 P. S. § 4005(a)(1)).

Source

The provisions of this § 145.144 adopted June 18, 2010, effective June 19, 2010, 40 Pa.B. 3346.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1350]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Monitoring requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1350 (Please refer to SECTION C - Site Level Requirements).

IV. RECORDKEEPING REQUIREMENTS.

019 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

- (a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this Operating Permit. The file shall include, but not be limited to: all air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit. All measurements, records and other data required to be maintained by the company shall be retained for at least five (5) years following the date on which such measurements, records or data are recorded.
- (b) All CEMS reports shall be submitted to the Department within thirty (30) days after each quarter but no later than the time frame established in the Department's latest Continuous Source Monitoring Manual. The Department reserves the right to require the report submissions in with a format acceptable to the Department.

020 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Recordkeeping Requirements:

Additional authority for this permit condition is derived from 40 CFR Part 63, Subpart LLL 63.1355 and 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12) and 139.103.

The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 and the recordkeeping requirements established in 40 CFR Part 63, Subpart LLL 63.1355.

Records shall be retained for at least 5 years and shall be made available to the Department upon request.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.



Compliance with this streamlined permit condition assures compliance with 40 CFR Part 63, Subpart LLL 63.1355.

021 [25 Pa. Code §127.511]

48-00004

Monitoring and related recordkeeping and reporting requirements.

The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO, NOX, SO2, VOCs, PM, PM10, PM2.5, Fluorides and Lead emissions limitations for the facilityin any 12 consecutive month period.

022 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records on a monthly basis to verify compliance with CO emissions limitations from the facility.

023 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall record process raw materials used, fuel used, clinker produced, and operating hours to show compliance with GROUP 01, Condition #001.

024 [25 Pa. Code §145.146.]

Recordkeeping.

- (a) The owner or operator of a Portland cement kiln shall maintain an operating log for each Portland cement kiln. The operating log must include the following on a monthly basis:
 - (1) The total hours of operation.
 - (2) The type and quantity of fuel used.
 - (3) The quantity of clinker produced.
- (b) The records maintained by the owner or operator of a Portland cement kiln must include the following:
 - (1) Source tests and operating parameters established during the initial source test and subsequent testing.
- (2) The date, time and duration of any start-up, shutdown or malfunction of a Portland cement kiln or emissions monitoring system.
- (3) The date and type of maintenance, repairs or replacements performed on the kilns, control devices and emission monitoring systems.
- (c) The owner or operator of a Portland Cement Kiln shall maintain the records required under this section onsite for five (5) years. The records shall be made available to the Department upon request.

Authority

The provisions of this § 145.146 issued under section 5(a)(1) of the Air Pollution Control Act (35 P. S. § 4005(a)(1)).

Source

The provisions of this § 145.146 adopted June 18, 2010, effective June 19, 2010, 40 Pa.B. 3346.

025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1355]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Recordkeeping requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1355 (See SECTION C - Site Level Requirements).





V. REPORTING REQUIREMENTS.

026 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall submit the Annual Compliance Report and the AIMS Report to the to the Program Manager, Air Quality Program by March 1 of the following year.

027 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall submit reports to the Department on a semi-annual basis that include the supporting calculations to verify compliance with the CO emissions limitations for the facility in any 12 consecutive month period.

028 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Reporting Requirements:

[Additional authority for this permit condition is derived from 40 CFR Part 63, Subpart LLL 63.1354 and 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12) and 139.103.

The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 and the reporting requirements established in 40 CFR Part 63, Subpart LLL 63.1354.

The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

Compliance with this streamlined permit condition assures compliance with 40 CFR Part 63, Subpart LLL 63.1354.

029 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The company shall immediately notify the Department of any malfunction of, or damage to, sources or associated air cleaning devices which result in, or may possibly result in, the emissions in excess of the limitations specified in this Operating Permit or any applicable Department Rule or Regulation.
- (b) Any changes in the location of the aforementioned sources, or any changes in the process or control equipment would be considered a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.
- (c) This facility is subject to the requirement of the NESHAP for the Portland Cement Plants 40 CFR 63 Subpart LLL, and shall comply with all applicable requirements of this Subpart.

40 CFR §63.10 requires submission of copies of all requests, reports, applications, submittals, and other communications







to both EPA and the Department. The EPA copies shall be forwarded to:

Enforcement & Compliance Assurance Division

Air, RCRA and Toxics Branch (3ED21)

Four Penn Center

1600 John F. Kennedy Boulevard

Philadelphia, PA 19103-2852

(d) Any notification as a result of any condition herein should be directed to:

Mark J Wejkszner

Air Quality Program Manager

Department of Environmental Protection

2 Public Square

Wilkes-Barre, PA 18701-1915

030 [25 Pa. Code §145.145.]

Compliance demonstration and reporting requirements.

- (a) By October 31, 2011, and each year thereafter, the owner or operator of a Portland Cement Kiln subject to § 145.143(b)(2) (relating to standard requirements) shall submit a written report to the Department, in a format approved by the Department, which includes the following:
- (1) The difference between the actual NOx emissions from the kiln during the interval from May 1 through September 30 and the allowable emissions for that period.
- (2) The calculations used to determine the difference in emissions, including the CEMS data and clinker production data used to show compliance with the allowable emission limits in § 145.143(b)(2). The clinker production data must consist of the quantity of clinker, in tons, produced per day for each kiln.
- (b) The owner or operator of a Portland cement kiln shall demonstrate compliance with the standard requirements in § 145.143(b)(2) on one of the following:
 - (1) A kiln-by-kiln basis.
 - (2) A facility-wide basis.
 - (3) A system-wide basis.

Authority

The provisions of this § 145.145 issued under section 5(a)(1) of the Air Pollution Control Act (35 P. S. § 4005(a)(1)).

Source

The provisions of this § 145.145 adopted June 18, 2010, effective June 19, 2010, 40 Pa.B. 3346.

031 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1354]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Reporting requirements.

The permittee shall comply with the applicable reporting requirements of 40 CFR 63.1354 (See SECTION C - Site Level Requirements).

VI. WORK PRACTICE REQUIREMENTS.

032 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The pressure differential across the baghouses shall be recorded on a daily basis while the plant is operating. The permittee shall retain these records for a minimum of five (5) years and shall be made available to the Department upon request.
- (b) Dust collected in the baghouse filters shall be discharged into closed containers only.







- (c) The permittee shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse associated with this source in order to be able to immediately replace any bags/filters requiring replacement due to deterioration resulting from routine operation of the source and baghouse.
- (d) The permittee shall maintain and operate the air pollution control equipment and sources in accordance with good engineering practice.

033 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Work Practice Standards

- (a) Continuous emission monitoring shall meet the following minimum data availability requirements:
- (1) In accordance with 25 Pa. Code Section 139.101(12), required monitoring shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:
- (i) In each calendar month, at least 90% of the time periods for which [an emission standard or an operational parameter] applies, shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

or,

(ii) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

- (2) As required under 25 Pa. Code Section 139.103(2) opacity monitoring systems shall meet at least one of the following data availability requirements, unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:
- (i) At least 90% of the hours in each calendar month shall be valid hours as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

or,

(ii) At least 95% of the hours in each calendar quarter shall be valid hours as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

034 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1346]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Operating limits for kilns.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1346 (Please refer to SECTION C - Site Level Requirements).

VII. ADDITIONAL REQUIREMENTS.

035 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Quality Assurance Requirements:





Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

036 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall comply with the requirements of the Good Neighbor Plan (40 CFR 52.42) by the specified compliance date of 40 CFR 52.42.

*** Permit Shield in Effect. ***



48-00004



SECTION E. Source Group Restrictions.

Group Name: GROUP 02

Group Description: CLINKER COOLER

Sources included in this group

ID Name

169 -1 CLINKER COOLER

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The following allowable emission limits are established for the operation of the clinker cooler:

- (a) The Clinker Cooler operations, the Particulate Matter shall not exceed 0.01 grains/dscf.
 - (i) A three (3) hour average, rolling by one hour was utilized during the most recent stack test.
- (b) Visible air contaminants shall not be emitted in such a manner that the opacity of the emissions is equal to or greater than 10% based on a 6-minute block average.
- (c) The above listed emission limitations were obtained from Plan Approval No. 48-309-118C issued March, 18, 2008.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1343]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

What standards apply to my kilns, clinker coolers, raw material dryers, and open clinker piles?

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1343 (Please refer to SECTION C - Site Level Requirements).

II. TESTING REQUIREMENTS.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1349]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Performance testing requirements.

The permittee shall comply with the applicable performance testing requirements of 40 CFR 63.1349 (See SECTION C - Site Level Requirements.

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Continuous monitoring requirements are as follows:

(a) Continuous Emission Monitoring Requirements

The following continuous emission monitoring systems (CEMS) must be installed, approved by the Department, operated and maintained in accordance with the requirements of 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), and the "Submittal and Approval", "Record Keeping and Reporting", and "Quality Assurance" requirements of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

CEMS for Opacity.







- (a) Source Combination to be Monitored: Source ID No. 169-1.
- (b) Parameter to be Reported: Opacity for PM.
- (c) Units of Measurement to be Reported: %.
- (d) Moisture Basis of Measurement to be Reported: NA
- (e) Correction basis of Measurements to be Reported: None
- (f) Data Substitution Required: No
- (g) Emission Standards: Emission Restrictions listed in Condion #001 with Averaging Period Description, Emission Standard Value.

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The fabric collectors (baghouses) must be equipped with a device for monitoring the pressure differential across the fabric collectors.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1348]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Compliance requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1348 (Please refer to SECTION C - Site Level Requirements).

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1350]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Monitoring requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1350 (Please refer to SECTION C - Site Level Requirements).

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Recordkeeping Requirements:

Additional authority for this permit condition is derived from 40 CFR Part 63, Subpart LLL 63.1355 and 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12) and 139.103.

The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 and the recordkeeping requirements established in 40 CFR Part 63, Subpart LLL 63.1355.

Records shall be retained for at least five (5) years and shall be made available to the Department upon request.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

Compliance with this streamlined permit condition assures compliance with 40 CFR Part 63, Subpart LLL 63.1355.





009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1355]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Recordkeeping requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1355 (See SECTION C - Site Level Requirements).

V. REPORTING REQUIREMENTS.

[25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Reporting Requirements:

[Additional authority for this permit condition is derived from 40 CFR Part 63, Subpart LLL 63.1354 and 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12) and 139.103.

The permittee shall submit guarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 and the reporting requirements established in 40 CFR Part 63, Subpart LLL 63.1354.

The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition. shall constitute violations of this Permit, unless approved in advance by the Department in writing.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

Compliance with this streamlined permit condition assures compliance with 40 CFR Part 63, Subpart LLL 63.1354.

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1353]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Notification requirements.

The permittee shall comply with the applicable notification requirements of 40 CFR 63.1353 (See SECTION C - Site Level Requirements).

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1354]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Reporting requirements.

The permittee shall comply with the applicable reporting requirements of 40 CFR 63.1354 (See SECTION C - Site Level Requirements).







VI. WORK PRACTICE REQUIREMENTS.

013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Work Practice Standards

- (a) Continuous emission monitoring shall meet the following minimum data availability requirements:
- (1) In accordance with 25 Pa. Code Section 139.101(12), required monitoring shall, at a minimum, meet one of the following data availability requirements unless otherwise stipulated in this permit, a plan approval, Title 25 or an order issued under Section 4 of the Air Pollution Control Act:
- (i) In each calendar month, at least 90% of the time periods for which [an emission standard or an operational parameter] applies, shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

or,

(ii) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the Quality Assurance section of Revision No. 8 of the Department's Continuous Source Monitoring Manual, 274-0300-001.

Compliance with any subsequently issued revisions to the Continuous Source Monitoring Manual will constitute compliance with the regulations.

014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The pressure differential across the baghouses shall be recorded on a daily basis while the plant is operating. The permittee shall retain these records for a minimum of five (5) years and shall be made available to the Department upon request.
- (b) Dust collected in the baghouse filters shall be discharged into closed containers only.
- (c) The permittee shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse associated with this source in order to be able to immediately replace any bags/filters requiring replacement due to deterioration resulting from routine operation of the source and baghouse.
- (d) The permittee shall maintain and operate the air pollution control equipment and sources in accordance with good engineering practice.

VII. ADDITIONAL REQUIREMENTS.

015 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Quality Assurance Requirements:

Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the "Quality Assurance" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001.

Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

*** Permit Shield in Effect. ***





Group Name: GROUP 03

Group Description: RAW MATERIAL HANDLING, FINISHING MILLS, AND CEMENT MANUFACTURING EQUIPMENT

Sources included in this group

s included in this group				
ID Name				
110 -3 FINISH GRINDING MILL #1				
111 -3 CEMENT SILO CIRCUIT #1				
115 -3 BULK TRUCK LOADING STATION NORTH				
116 -3 R.R. BULK LOADING STATION #1				
120 -3 FINISH GRINDING MILL #2				
121 -3 FINISH GRINDING MILL #3				
122 -3 FINISH GRINDING MILL #4				
123 -3 FINISH GRINDING MILL #5				
124 -3 CEMENT SILO CIRCUIT #2				
125 -3 CEMENT SILO CIRCUIT #3				
130 -3 BULK TRUCK LOAD STATION SOUTH				
132 -1 TRUCK NO. 1 LOADOUT				
134 -3 CLINKER SILO CIRCUIT				
135 -3 PLANT III -MISC. SOURCES (HAULROADS)				
136 -3 PLANT III-MISC.STOCKPS & GYP SYS ELEV CONVY MAT STOCKPS				
137 -1 CEMENT TRUCK NO. 2 LOADOUT				
137 -3 PLANT III - (CEMENT HANDLING) SILOS AND PACKING MACHINES				
139 -3 CLINKER DUMP HOPPER				
140 -1 CONVEYOR 103				
140 -3 CLINKER TRANSFER CONVEYOR FROM PLANT I TO PLANT III				
141 -1 CONVEYOR 103 TO 104, & 117				
142 -3 ROTORY PACKER				
145 -1 RAW MATERIAL BLENDING SILO 309				
146 -1 RAW MATERIAL BLENDING SILO 307/308				
147 -1 KILN PREHEATER FEED SYSTEM				
148 -1 CLINKER LOADOUT STATION				
149 -1 CLINKER STORAGE SILOS 601 & 603				
150 -1 GYPSUM STORAGE SILO 602				
151 -1 ROLL PRESS				
152 -1 FINISH MILL & SEPARATOR				
153 -1 RAW MATERIAL CONVEYOR 109-110				
154 -1 RAW MATERIAL CONVEYOR 110-112				
155 -1 RAW MATERIAL UNLOAD (EXCEPT STONE)				
156 -1 RAW MAT. TRANSFER CONVYS. 147/148/149 SOLID FUEL AND CLINKER				
159 -1 SPECIAL CLINKER HOPPER				
160 -1 RAW MATERIAL CONVEYOR 108-109 & STONE HOPPER				
161 -1 NEW CLINKER SILO CONVEYOR #521/#522				
162 -1 NEW CLINKER SILO #524				
163 -1 CLINKER SILO #544				
164 -1 CEMENT STORAGE SILOS				
165 -1 BUCKET CONVEYOR #501				
170 -2 PLANT II - CEMENT SILO				
172 -1 CLINKER SILO DISCHARGE				







173 -1 PLANT I - MISC. ROADS & STOCK PILES		
176 -1 CEMENT TRUCK LOADOUT #3		
177A-1CONVEYOR 105 - LONG BELT		
177B-1PLANT CONVEYOR - CLINKER		
202 ALKALINE REAGENT STORAGE BIN		
203 ENGINEERED FUEL RECEIVING DOSING CONVEYING SYSTEM		

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.512]

CONTROL DEVICE

Operating permit terms and conditions.

(a) Pursuant to the Best Available Technology provision of 25 PA Code, Chapter 127.12, the facility is subject to the following air contaminant emission limitations:

CONT	GIVIDOGI	
DEP TV ID	PLAN APPROVAL CD II	GR/DSCF
C137	CD202-II	0.01
C100	CD301-IA	0.01
C101	CD301-IB	0.01
C41	CD405-I	0.01
C23	CD407-I	0.015
C104	CD501	0.01
C108	CD505-I	0.015
C172	CD507-I	0.015
C128	CD614-I	0.015

(b) Particulate matter emissions from all other control devices (baghouses) not listed above shall not exceed 0.02 grains per dry standard cubic foot and shall at all times be in compliance with 25 PA Code Section 123.41.

The above listed emission limitations were obtained from Plan Approval No. 48-309-118C issued March, 18, 2008.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1343]

GR/DSCF

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

What standards apply to my kilns, clinker coolers, raw material dryers, and open clinker piles?

(13) If your source is a (an): Existing or new Raw or Finish Mill, And the operating mode is: All Operating Modes, And if is located at a: Major Source,

Your emission limits are: The oxygen correction factor is:

Opacity 10 percent NA.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1343 (Please refer to SECTION C - Site Level Requirements).







003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1345]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Emissions limits for affected sources other than kilns; in-line kiln/raw mills; clinker coolers; new and reconstructed raw

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1345 (Please refer to SECTION C - Site Level Requirements).

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1348]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Compliance requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1348 (Please refer to SECTION C - Site Level Requirements).

II. TESTING REQUIREMENTS.

[40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1349]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Performance testing requirements.

The permittee shall comply with the applicable peformance testing requirements of 40 CFR 63.1349 (See SECTION C - Site Level Requirements).

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The fabric collectors (baghouses) must be equipped with a device for monitoring the pressure differential across the fabric collectors.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1350]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Monitoring requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1350 (Please refer to SECTION C - Site Level Requirements).

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this Operating Permit. The file shall include, but not be limited to: all air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this Operating Permit. All measurements, records and other data required to be maintained by the company shall be retained for at least five (5) years following the date on which such measurements, records or data are recorded.

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

(a) The company shall maintain a maintenance log for any control device associated with these sources. This record shall







indicate at a minimum;

- (1) date and results of monthly maintenance inspections.
- (2) date of last bag/cartridge replacement.
- (3) any mechanical repairs and/or adjustments.
- (4) weekly record of pressure drops across collectors. (while the sources are in operation).
- (b) These records shall be maintained for a period of five (5) years and be made available to the Department upon request.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1355]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Recordkeeping requirements.

The permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63.1355 (See SECTION C - Site Level Requirements).

V. REPORTING REQUIREMENTS.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1353]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Notification requirements.

The permittee shall comply with the applicable notification requirements of 40 CFR 63.1353 (See SECTION C - Site Level Requirements).

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1354]

Subpart LLL -- National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry

Reporting requirements.

The permittee shall comply with the applicable reporting requirements of 40 CFR 63.1354 (See SECTION C - Site Level Requirements).

VI. WORK PRACTICE REQUIREMENTS.

013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall perform monthly maintenance inspections of these sources and all associated control devices.

014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The pressure differential across the baghouses shall be recorded on a weekly basis while the plant is operating. The permittee shall retain these records for a minimum of five (5) years and shall be made available to the Department upon request.
- (b) Dust collected in the baghouse filters shall be discharged into closed containers only.
- (c) The permittee shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse associated with this source in order to be able to immediately replace any bags/filters requiring replacement due to deterioration resulting from routine operation of the source and baghouse.
- (d) The permittee shall maintain and operate the air pollution control equipment and sources in accordance with good engineering practice.







VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



48-00004



SECTION E. Source Group Restrictions.

Group Name: GROUP 04

Group Description: HAUL ROADS AND STOCKPILES

Sources included in this group

ID Name

173 -1 PLANT I - MISC. ROADS & STOCK PILES

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- (a) The permittee shall comply with the requirements of SECTION C Conditions #001 and #002. All reasonable actions shall be taken to prevent particulate matter from becoming airborne. These actions include, but are not limited to, the following:
 - (1) Proper installation of a water spray dust suppression system and operation.
- (2) Application of asphalt, water or suitable chemicals on dirt roads, material stockpiles and other surfaces, which may give, rise to airborne dusts.
 - (3) Paving and maintenance of plant roadways.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***







Group Name: GROUP 05

Group Description: SOURCES USING J-M WATER SPRAYS

Sources included in this group

ID	Name		
140 -1 CONVEYOR 103			
141 -1	CONVEYOR 103 TO 104, & 117		
153 -1 RAW MATERIAL CONVEYOR 109-110			
154 -1 RAW MATERIAL CONVEYOR 110-112			
160 -1	RAW MATERIAL CONVEYOR 108-109 & STONE HOPPER		

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.41]

Limitations

- (a) A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:
 - (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
 - (2) Equal to or greater than 60% at any time.

002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

To ensure compliance with SECTION E, GROUP 05 - Condition #001, the permittee shall operate a water spray dust suppression system.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall comply with applicable monitoring, recordkeeping and reporting requirements set forth in 25 Pa. Code Chapter 139 (relating to sampling and testing), the Air Pollution Control Act (35 P.S. §4001 et seq.), the Clean Air Act (42 U.S.C. §7401 et seq.), and the applicable regulations under the acts.

Records shall be kept for a period of five (5) years and shall be made available to the Department upon its request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).







VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Water spray dust suppression systems on these sources shall be operated on any and all occasions that the respective plant is operated. Operation without simultaneous operation of the water spray dust suppression system can take place only in those unusual instances where processed materials contain sufficient moisture so as not to create air contaminant emissions in excess of the limitations and standards of this Operating Permit. If, however, the water spray dust suppression system is incapable of operation due to weather conditions or any other reason, and their operation is required to comply with emission limitations, the permittee may not operate the plant.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***







Group Name: GROUP 06

Group Description: COAL OPERATIONS

Sources included in this group

ID Name

168 -1 COAL OPERATIONS

I. RESTRICTIONS.

Emission Restriction(s).

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.250]

Subpart Y - Standards of Performance for Coal Preparation Plants Applicability and designation of affected facility.

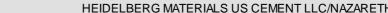
- (a) The provisions of this subpart apply to affected facilities in coal preparation and processing plants that process more than 181 megagrams (Mg) (200 tons) of coal per day.
- (b) The provisions in § 60.251, § 60.252(a), § 60.253(a), § 60.254(a), § 60.255(a), and § 60.256(a) of this subpart are applicable to any of the following affected facilities that commenced construction, reconstruction or modification after October 27, 1974, and on or before April 28, 2008: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), and coal storage systems, transfer and loading systems.
- (c) The provisions in § 60.251, § 60.252(b)(1) and (c), § 60.253(b), § 60.254(b), §60.255(b) through (h), §60.256(b) and (c), §60.257, and §60.258 of this subpart are applicable to any of the following affected facilities that commenced construction, reconstruction or modification after April 28, 2008, and on or before May 27, 2009: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), and coal storage systems, transfer and loading systems.
- (d) The provisions in § 60.251, § 60.252(b)(1) through (3), and (c), § 60.253(b), § 60.254(b) and (c), §60.255(b) through (h), §60.256(b) and (c), §60.257, and §60.258 of this subpart are applicable to any of the following affected facilities that commenced construction, reconstruction or modification after May 27, 2009: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), coal storage systems, transfer and loading systems, and open storage piles.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.251]

Subpart Y - Standards of Performance for Coal Preparation Plants Definitions.

As used in this subpart, all terms not defined herein have the meaning given them in the Clean Air Act (Act) and in subpart A of this part.

- (a) Anthracite means coal that is classified as anthracite according to the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17).
- (b) Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust loadings) in the exhaust of a fabric filter to detect bag leaks and other upset conditions. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.
- (c) Bituminous coal means solid fossil fuel classified as bituminous coal by ASTM D388 (incorporated by reference; see §60.17).
- (d) Coal means:
- (1) For units constructed, reconstructed, or modified on or before May 27, 2009, all solid fossil fuels classified as anthracite, bituminous, subbituminous, or lignite by ASTM D388 (incorporated by reference see §60.17).





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- (2) For units constructed, reconstructed, or modified after May 27, 2009, all solid fossil fuels classified as anthracite, bituminous, subbituminous, or lignite by ASTM D388 (incorporated by reference see §60.17), and coal refuse.
- (e) Coal preparation and processing plant means any facility (excluding underground mining operations) which prepares coal by one or more of the following processes: breaking, crushing, screening, wet or dry cleaning, and thermal drying.
- (f) Coal processing and conveying equipment means any machinery used to reduce the size of coal or to separate coal from refuse, and the equipment used to convey coal to or remove coal and refuse from the machinery. This includes, but is not limited to, breakers, crushers, screens, and conveyor belts. Equipment located at the mine face is not considered to be part of the coal preparation and processing plant.
- (g) Coal refuse means waste products of coal mining, physical coal cleaning, and coal preparation operations (e.g. culm, gob, etc.) containing coal, matrix material, clay, and other organic and inorganic material.
- (h) Coal storage system means any facility used to store coal except for open storage piles.
- (i) Design controlled potential PM emissions rate means the theoretical particulate matter (PM) emissions (Mg) that would result from the operation of a control device at its design emissions rate (grams per dry standard cubic meter (g/dscm)), multiplied by the maximum design flow rate (dry standard cubic meter per minute (dscm/min)), multiplied by 60 (minutes per hour (min/hr)), multiplied by 8,760 (hours per year (hr/yr)), divided by 1,000,000 (megagrams per gram (Mg/g)).
- (j) Indirect thermal dryer means a thermal dryer that reduces the moisture content of coal through indirect heating of the coal through contact with a heat transfer medium. If the source of heat (the source of combustion or furnace) is subject to another subpart of this part, then the furnace and the associated emissions are not part of the affected facility. However, if the source of heat is not subject to another subpart of this part, then the furnace and the associated emissions are part of the affected facility.
- (k) Lignite means coal that is classified as lignite A or B according to the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17).
- (I) Mechanical vent means any vent that uses a powered mechanical drive (machine) to induce air flow.
- (m) Open storage pile means any facility, including storage area, that is not enclosed that is used to store coal, including the equipment used in the loading, unloading, and conveying operations of the facility.
- (n) Operating day means a 24-hour period between 12 midnight and the following midnight during which coal is prepared or processed at any time by the affected facility. It is not necessary that coal be prepared or processed the entire 24-hour period.
- (o) Pneumatic coal-cleaning equipment means:
- (1) For units constructed, reconstructed, or modified on or before May 27, 2009, any facility which classifies bituminous coal by size or separates bituminous coal from refuse by application of air stream(s).
- (2) For units constructed, reconstructed, or modified after May 27, 2009, any facility which classifies coal by size or separates coal from refuse by application of air stream(s).
- (p) Potential combustion concentration means the theoretical emissions (nanograms per joule (ng/J) or pounds per million British thermal units (lb/MMBtu) heat input) that would result from combustion of a fuel in an uncleaned state without emission control systems, as determined using Method 19 of appendix A-7 of this part.
- (q) Subbituminous coal means coal that is classified as subbituminous A, B, or C according to the American Society of Testing and Materials in ASTM D388 (incorporated by reference, see §60.17).
- (r) Thermal dryer means:
- (1) For units constructed, reconstructed, or modified on or before May 27, 2009, any facility in which the moisture content of bituminous coal is reduced by contact with a heated gas stream which is exhausted to the atmosphere.
- (2) For units constructed, reconstructed, or modified after May 27, 2009, any facility in which the moisture content of coal is reduced by either contact with a heated gas stream which is exhausted to the atmosphere or through indirect heating of the





coal through contact with a heated heat transfer medium.

(s) Transfer and loading system means any facility used to transfer and load coal for shipment.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.252]

Subpart Y - Standards of Performance for Coal Preparation Plants Standards for particulate matter.

- (a) On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of a thermal dryer constructed, reconstructed, or modified on or before April 28, 2008, subject to the provisions of this subpart must meet the requirements in paragraphs (a)(1) and (a)(2) of this section.
- (1) The owner or operator shall not cause to be discharged into the atmosphere from the thermal dryer any gases which contain PM in excess of 0.070 g/dscm (0.031 grains per dry standard cubic feet (gr/dscf)); and
- (2) The owner or operator shall not cause to be discharged into the atmosphere from the thermal dryer any gases which exhibit 20 percent opacity or greater.
- (b) Except as provided in paragraph (c) of this section, on and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of a thermal dryer constructed, reconstructed, or modified after April 28, 2008, subject to the provisions of this subpart must meet the applicable standards for PM and opacity, as specified in paragraph (b)(1) of this section. In addition, and except as provided in paragraph (c) of this section, on and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of a thermal dryer constructed, reconstructed, or modified after May 29, 2009, subject to the provisions of this subpart must also meet the applicable standards for sulfur dioxide (SO2), and combined nitrogen oxides (NOX) and carbon moNOX ide (CO) as specified in paragraphs (b)(2) and (b)(3) of this section.
- (1) The owner or operator must meet the requirements for PM emissions in paragraphs (b)(1)(i) through (iii) of this section, as applicable to the affected facility.
- (i) For each thermal dryer constructed or reconstructed after April 28, 2008, the owner or operator must meet the requirements of (b)(1)(i)(A) and (b)(1)(i)(B).
- (A) The owner or operator must not cause to be discharged into the atmosphere from the thermal dryer any gases that contain PM in excess of 0.023 g/dscm (0.010 grains per dry standard cubic feet (gr/dscf)); and
- (B) The owner or operator must not cause to be discharged into the atmosphere from the thermal dryer any gases that exhibit 10 percent opacity or greater.
- (ii) For each thermal dryer modified after April 28, 2008, the owner or operator must meet the requirements of paragraphs (b)(1)(ii)(A) and (b)(1)(ii)(B) of this section.
- (A) The owner or operator must not cause to be discharged to the atmosphere from the affected facility any gases which contain PM in excess of 0.070 g/dscm (0.031 gr/dscf); and
- (B) The owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 20 percent opacity or greater.
- (2) Except as provided in paragraph (b)(2)(iii) of this section, for each thermal dryer constructed, reconstructed, or modified after May 27, 2009, the owner or operator must meet the requirements for SO2 emissions in either paragraph (b)(2)(i) or (b)(2)(ii) of this section.
- (i) The owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases that contain SO2 in excess of 85 ng/J (0.20 lb/MMBtu) heat input; or
- (ii) The owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases that either contain SO2 in excess of 520 ng/J (1.20 lb/MMBtu) heat input or contain SO2 in excess of 10 percent of the potential combustion concentration (i.e., the facility must achieve at least a 90 percent reduction of the potential combustion concentration and may not exceed a maximum emissions rate of 1.2 lb/MMBtu (520 ng/J)).
- (iii) Thermal dryers that receive all of their thermal input from a source other than coal or residual oil, that receive all of their thermal input from a source subject to an SO2 limit under another subpart of this part, or that use waste heat or residual from the combustion of coal or residual oil as their only thermal input are not subject to the SO2 limits of this section.
- (3) Except as provided in paragraph (b)(3)(iii) of this section, the owner or operator must meet the requirements for combined NOX and CO emissions in paragraph (b)(3)(i) or (b)(3)(ii) of this section, as applicable to the affected facility.
- (i) For each thermal dryer constructed after May 27, 2009, the owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which contain a combined concentration of NOX and CO in excess of 280 ng/J (0.65 lb/ MMBtu) heat input.





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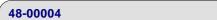
- (ii) For each thermal dryer reconstructed or modified after May 27, 2009, the owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which contain combined concentration of NOX and CO in excess of 430 ng/J (1.0 lb/ MMBtu) heat input.
- (iii) Thermal dryers that receive all of their thermal input from a source other than coal or residual oil, that receive all of their thermal input from a source subject to a NOX limit and/or CO limit under another subpart of this part, or that use waste heat or residual from the combustion of coal or residual oil as their only thermal input, are not subject to the combined NOX and CO limits of this section.
- (c) Thermal dryers receiving all of their thermal input from an affected facility covered under another 40 CFR Part 60 subpart must meet the applicable requirements in that subpart but are not subject to the requirements in this subpart.

II. TESTING REQUIREMENTS.

[40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.254] **Subpart Y - Standards of Performance for Coal Preparation Plants** Test methods and procedures.

- (a) On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.
- (b) On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified after April 28, 2008, must meet the requirements in paragraphs (b)(1) through (3) of this section, as applicable to the affected facility.
- (1) Except as provided in paragraph (b)(3) of this section, the owner or operator must not cause to be discharged into the atmosphere from the affected facility any gases which exhibit 10 percent opacity or greater.
- (2) The owner or operator must not cause to be discharged into the atmosphere from any mechanical vent on an affected facility gases which contain particulate matter in excess of 0.023 g/dscm (0.010 gr/dscf).
- (3) Equipment used in the loading, unloading, and conveying operations of open storage piles are not subject to the opacity limitations of paragraph (b)(1) of this section.
- (c) The owner or operator of an open storage pile, which includes the equipment used in the loading, unloading, and conveying operations of the affected facility, constructed, reconstructed, or modified after May 27, 2009, must prepare and operate in accordance with a submitted fugitive coal dust emissions control plan that is appropriate for the site conditions as specified in paragraphs (c)(1) through (6) of this section.
- (1) The fugitive coal dust emissions control plan must identify and describe the control measures the owner or operator will use to minimize fugitive coal dust emissions from each open storage pile.
- (2) For open coal storage piles, the fugitive coal dust emissions control plan must require that one or more of the following control measures be used to minimize to the greatest extent practicable fugitive coal dust: Locating the source inside a partial enclosure, installing and operating a water spray or fogging system, applying appropriate chemical dust suppression agents on the source (when the provisions of paragraph (c)(6) of this section are met), use of a wind barrier, compaction, or use of a vegetative cover. The owner or operator must select, for inclusion in the fugitive coal dust emissions control plan, the control measure or measures listed in this paragraph that are most appropriate for site conditions. The plan must also explain how the measure or measures selected are applicable and appropriate for site conditions. In addition, the plan must be revised as needed to reflect any changing conditions at the source.
- (3) Any owner or operator of an affected facility that is required to have a fugitive coal dust emissions control plan may petition the Administrator to approve, for inclusion in the plan for the affected facility, alternative control measures other than those specified in paragraph (c)(2) of this section as specified in paragraphs (c)(3)(i) through (iv) of this section.
- (i) The petition must include a description of the alternative control measures, a copy of the fugitive coal dust emissions control plan for the affected facility that includes the alternative control measures, and information sufficient for EPA to evaluate the demonstrations required by paragraph (c)(3)(ii) of this section.
- (ii) The owner or operator must either demonstrate that the fugitive coal dust emissions control plan that includes the alternate control measures will provide equivalent overall environmental protection or demonstrate that it is either economically or technically infeasible for the affected facility to use the control measures specifically identified in paragraph

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Source Group Restrictions.



(c)(2).

SECTION E.

- (iii) While the petition is pending, the owner or operator must comply with the fugitive coal dust emissions control plan including the alternative control measures submitted with the petition. Operation in accordance with the plan submitted with the petition shall be deemed to constitute compliance with the requirement to operate in accordance with a fugitive coal dust emissions control plan that contains one of the control measures specifically identified in paragraph (c)(2) of this section while the petition is pending.
- (iv) If the petition is approved by the Administrator, the alternative control measures will be approved for inclusion in the fugitive coal dust emissions control plan for the affected facility. In lieu of amending this subpart, a letter will be sent to the facility describing the specific control measures approved. The facility shall make any such letters and the applicable fugitive coal dust emissions control plan available to the public. If the Administrator determines it is appropriate, the conditions and requirements of the letter can be reviewed and changed at any point.
- (4) The owner or operator must submit the fugitive coal dust emissions control plan to the Administrator or delegated authority as specified in paragraphs (c)(4)(i) and (c)(4)(ii) of this section.
- (i) The plan must be submitted to the Administrator or delegated authority prior to startup of the new, reconstructed, or modified affected facility, or 30 days after the effective date of this rule, whichever is later.
- (ii) The plan must be revised as needed to reflect any changing conditions at the source. Such revisions must be dated and submitted to the Administrator or delegated authority before a source can operate pursuant to these revisions. The Administrator or delegated authority may also object to such revisions as specified in paragraph (c)(5) of this section.
- (5) The Administrator or delegated authority may object to the fugitive coal dust emissions control plan as specified in paragraphs (c)(5)(i) and (c)(5)(ii) of this section.
- (i) The Administrator or delegated authority may object to any fugitive coal dust emissions control plan that it has determined does not meet the requirements of paragraphs (c)(1) and (c)(2) of this section.
- (ii) If an objection is raised, the owner or operator, within 30 days from receipt of the objection, must submit a revised fugitive coal dust emissions control plan to the Administrator or delegated authority. The owner or operator must operate in accordance with the revised fugitive coal dust emissions control plan. The Administrator or delegated authority retain the right, under paragraph (c)(5) of this section, to object to the revised control plan if it determines the plan does not meet the requirements of paragraphs (c)(1) and (c)(2) of this section.
- (6) Where appropriate chemical dust suppression agents are selected by the owner or operator as a control measure to minimize fugitive coal dust emissions, (1) only chemical dust suppressants with Occupational Safety and Health Administration (OSHA)-compliant material safety data sheets (MSDS) are to be allowed; (2) the MSDS must be included in the fugitive coal dust emissions control plan; and (3) the owner or operator must consider and document in the fugitive coal dust emissions control plan the site-specific impacts associated with the use of such chemical dust suppressants.

III. MONITORING REQUIREMENTS.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.253] Subpart Y - Standards of Performance for Coal Preparation Plants Monitoring of operations.

- (a) On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of pneumatic coal-cleaning equipment constructed, reconstructed, or modified on or before April 28, 2008, must meet the requirements of paragraphs (a)(1) and (a)(2) of this section.
- (1) The owner or operator must not cause to be discharged into the atmosphere from the pneumatic coal-cleaning equipment any gases that contain PM in excess of 0.040 g/dscm (0.017 gr/dscf); and
- (2) The owner or operator must not cause to be discharged into the atmosphere from the pneumatic coal-cleaning equipment any gases that exhibit 10 percent opacity or greater.
- (b) On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator of pneumatic coal-cleaning equipment constructed, reconstructed, or modified after April 28, 2008, must meet the requirements in paragraphs (b)(1) and (b)(2) of this section.
- (1) The owner of operator must not cause to be discharged into the atmosphere from the pneumatic coal-cleaning equipment any gases that contain PM in excess or 0.023 g/dscm (0.010 gr/dscf); and
- (2) The owner or operator must not cause to be discharged into the atmosphere from the pneumatic coal-cleaning equipment any gases that exhibit greater than 5 percent opacity.



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SECTION E. Source Group Restrictions.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The source activities that comprise Coal Operations, Source ID No. 168, include the following activities:

Coal piles, coal storage, coal/coke blending hopper, coal hopper unloading, coal conveyor belts, coal/ coke silos, weigh feeder, indirect firing system, rejects hopper, coal dust silos, main kiln burner, and pre-heater burner system.

*** Permit Shield in Effect. ***





Group Name: GROUP 07

Group Description: RACT II SOURCES

Sources included in this group

ID	Name			
142 -1	142 -1 KILN SYSTEM - NORMAL MODE - 1,517,630 STPY			
301	EMERGENCY GENERATOR - 1140 HP CAT399			
401	HAUCK HEATER			
501	TERIHEATER			

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §129.97]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

On April 23, 2016, PADEP finalized rulemaking amending 25 Pa. Code Chapter 129 regulation for control of major sources of NOx and VOC (referred to as "RACT II"). As an existing major source of NOX and VOC, the Nazareth Plant is subject to the new RACT II regulation which allows facilities to comply with the rule by either meeting a presumptive RACT limit, developing a facility or system-wide averaging plan, or submitting a case-bycase RACT proposal. Heidelberg demonstrates compliance with RACT II for the subject emission units at the Nazareth Plant as follows:

The kiln system (Source ID 142-1) is subject to an emission limit of 2.36 lb. NOX/ ton clinker produced per 25 Pa. Code 129.97(h)(3). Compliance is demonstrated in accordance with 25 Pa. Code 129.100(a)(2) through monitoring of clinker production rates in accordance with 40 CFR 63.1350(d) and NOX CEMS data on a 30-day rolling basis in accordance with 25 Pa. Code 129.100(a)(1). Heidelberg maintains a daily operating log for the kiln system as required under 25 Pa. Code 129.100(h).

The kiln is also required to comply with the Consent Decree (CD) limit of 2.30 lb/ton clinker on a 30-day rolling average basis. Therefore, compliance with the CD limit will ensure compliance with the RACT II limit.

HAUCK HEATER

The 6.0 MMBtu/hr HAUCK HEATER is required to be installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices per the requirements of 25 Pa. Code 129.97(c). The heater qualifies for 25 Pa. Code 129.97(c) under 129.97(c)(3) because it is a boiler or other combustion source with an individual rated gross heat input less than 20 MMBtu/hr.

The HAUCK HEATER shall comply with 40 CFR 63 Subpart DDDDD Table 3, Item 2, by conducting a tune-up biennially in accordance with the requirements of 40 CFR 63.7540.

The HAUCK HEATER shall comply with 40 CFR 63.7500(a)(3) by, at all times, operate and maintain any affected source (as defined in 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practice for minimizing emissions.

TERI HEATER

The 0.65 MMBtu/hr TERI HEATER is required to be installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices per the requirements of 25 Pa. Code 129.97(c). The boiler qualifies for 25 Pa. Code 129.97(c) under 129.97(c)(3) because it is a boiler or other combustion source with an individual rated gross heat input less than 20 MMBtu/hr.

The TERI HEATER shall comply with 40 CFR 63 Subpart DDDDD Table 3, Item 2, by conducting a tune-up biennially in accordance with the requirements of 40 CFR 63.7540.

The TERI HEATER shall comply with 40 CFR 63.7500(a)(3) by, at all times, operate and maintain any affected source (as defined in 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner







consistent with safety and good air pollution control practice for minimizing emissions.

EMERGENCY GENERATOR

The existing 1140 hp CAT399 emergency generator is subject to 25 Pa. Code 129.97(c)(8) because it is an emergency standby engine operating less than 500 hours in a 12-month rolling period. As such, the generator is required to be maintained and operated in accordance with the manufacturer's specifications and with good operating practices to comply with RACT.

Three of the miscellaneous boilers/heaters operating onsite meet the exemption threshold in 25 Pa. Code 129.96(c) since their PTE is less than 1 tpy of both NOX and VOC, respectively. The units exempt from RACT II requirements include:

- 0.5 MMBtu/hr Clean Burn heater.
- Two (2) 0.7 MMBtu/hr WEBEN JARCO boilers

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

MONITORING REQUIREMENTS. III.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

[25 Pa. Code §129.100]

Compliance demonstration and recordkeeping requirements.

The Sources listed in Condition #001 of this Group 07 shall comply with the applicable recordkeeping requirements of RACT II.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***







Group Name: **GROUP 08**

Group Description: RACT III SOURCES

Sources included in this group

ID	Name
142 -1	KILN SYSTEM - NORMAL MODE - 1,517,630 STPY
301	EMERGENCY GENERATOR - 1140 HP CAT399
401	HAUCK HEATER
501	TERIHEATER

RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

- (a) NA.
- (b) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall comply with the applicable presumptive RACT requirements in paragraph (1) and recordkeeping and reporting requirements in paragraph (2).
 - (1) The owner or operator of a:
 - (i) NA.
- (2) The applicable recordkeeping and reporting requirements of § 129.115(f) and (i) (relating to written notification, compliance demonstration and recordkeeping and reporting requirements).
- (3) Compliance with the applicable presumptive RACT requirements in paragraph (1) and recordkeeping and reporting requirements in paragraph (2) assures compliance with the provisions in §§ 129.93(b)(2), (3), (4) and (5) and 129.97(b)(1), (2) and (3) (relating to presumptive RACT emissions limitations; and presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule).
- (c) The owner and operator of a source listed in this subsection that is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:
 - (1) A NOx air contamination source that has the potential to emit less than 5 TPY of NOx.
 - (2) A VOC air contamination source that has the potential to emit less than 2.7 TPY of VOC.

 - (4) A boiler or other combustion source with an individual rated gross heat input less than 20 million Btu/hour.

HAUCK HEATER

The 6.0 MMBtu/hr HAUCK HEATER is required to be installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices per the requirements of 25 Pa. Code 129.112(c). The heater qualifies for 25 Pa. Code 129.112(c)(4) because it is a boiler or other combustion source with an individual rated gross heat input less than 20 MMBtu/hr.

The HAUCK HEATER shall comply with 40 CFR 63 Subpart DDDDD Table 3, Item 2, by conducting a tune-up biennially in accordance with the requirements of 40 CFR 63.7540.

The HAUCK HEATER shall comply with 40 CFR 63.7500(a)(3) by, at all times, operate and maintain any affected source (as defined in 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practice for minimizing emissions.

TERI HEATER

The 0.65 MMBtu/hr TERI HEATER is required to be installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices per the requirements of 25 Pa. Code 129.112(c). The



heater

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qualifies for 25 Pa. Code 129.112(c)(4) because it is a boiler or other combustion source with an individual rated gross heat input less than 20 MMBtu/hr.

The TERI HEATER shall comply with 40 CFR 63 Subpart DDDDD Table 3, Item 2, by conducting a tune-up biennially in accordance with the requirements of 40 CFR 63.7540.

The TERI HEATER shall comply with 40 CFR 63.7500(a)(3) by, at all times, operate and maintain any affected source (as defined in 63.7490), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practice for minimizing emissions.

(10) An emergency standby engine operating less than 500 hours in a 12-month rolling period.

EMERGENCY GENERATOR

The existing 1140 hp CAT399 emergency generator is subject to 25 Pa. Code 129.112(c)(10) because it is an emergency standby engine operating less than 500 hours in a 12-month rolling period. As such, the generator is required to be maintained and operated in accordance with the manufacturer's specifications and with good operating practices to comply with RACT.

- (d) Except as specified in subsection (c), the owner and operator of a combustion unit, brick kiln, cement kiln, lime kiln, glass melting furnace or combustion source located at a major VOC emitting facility subject to § 129.111 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices for the control of the VOC emissions from the combustion unit, brick kiln, cement kiln, lime kiln, glass melting furnace or combustion source.
- (e) NA.
- (f) NA.
- (g) NA.
- (h) The owner and operator of a Portland cement kiln subject to § 129.111 shall comply with the following presumptive RACT emission limitations as applicable:
 - (1) NA.
 - (2) NA.
 - (3) 2.30 pounds of NOx per ton of clinker produced for:
 - (i) A preheater cement kiln as defined in § 145.142.
 - (ii) A precalciner cement kiln as defined in § 145.142.

The kiln system (Source ID 142-1) is subject to an emission limit of 2.30 lb. NOx/ ton clinker produced per 25 Pa. Code 129.112(h)(3). Compliance is demonstrated in accordance with 2.30 lb. NOx/ ton through monitoring of clinker production rates in accordance with 40 CFR 63.1350(d) and NOx CEMS data on a 30-day rolling basis in accordance with 25 Pa. Code 129.100(a)(1). HEIDELBERG MATERIALS maintains a daily operating log for the kiln system as required under 25 Pa. Code 129.100(h).

The kiln is also required to comply with the Consent Decree (CD) limit of 2.30 lb/ton clinker on a 30-day rolling average basis. Therefore, compliance with the CD limit will ensure compliance with the RACT III limit.

- (i) NA.
- (i) NA.
- (k) NA.
- (I) The requirements and emission limitations of this section supersede the requirements and emission limitations of a RACT permit issued to the owner or operator of an air contamination source subject to one or more of subsections (b)—(k)





prior to November 12, 2022, under §§ 129.91—129.95 (relating to stationary sources of NOx and VOCs) or under §§ 129.96—129.100 (relating to additional RACT requirements for major sources of NOx and VOCs) to control, reduce or minimize NOx emissions or VOC emissions, or both, from the air contamination source unless the permit contains more stringent requirements or emission limitations, or both.

(m) The requirements and emission limitations of this section supersede the requirements and emission limitations of §§ 129.201-129.205, 129.301-129.310, 145.111-145.113 and 145.141-145.146 unless the requirements or emission limitations of §§ 129.201-129.205, §§ 129.301-129.310, §§ 145.111-145.113 or §§ 145.141-145.146 are more stringent.

(n) - (q) NA.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §129.115]

Written notification, compliance demonstration and recordkeeping and reporting requirements

The Sources listed in Condition #002 of this Group 08 shall comply with the applicable recordkeeping requirements of RACT III.

- (a) NA.
- (b) Except as specified in subsection (d), the owner and operator of an air contamination source subject to a NOx RACT requirement or RACT emission limitation or VOC RACT requirement or RACT emission limitation, or both, listed in § 129.112 (relating to presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule) shall demonstrate compliance with the applicable RACT requirement or RACT emission limitation by performing the following monitoring or testing procedures:
- (1) NA.
- (2) For a Portland cement kiln with a CEMS, monitoring of clinker production rates in accordance with 40 CFR 63.1350(d) (relating to monitoring requirements).
- (3) NA.
- (4) NA.
- (5) NA.
- (6) For an air contamination source without a CEMS, monitoring and testing in accordance with an emissions source test approved by the Department or appropriate approved local air pollution control agency that meets the requirements of Chapter 139, Subchapter A (relating to sampling and testing methods and procedures). The source test shall be conducted to demonstrate initial compliance and subsequently on a schedule set forth in the applicable permit.
- (c) NA.
- (d) NA.
- (e) NA.
- (f) The owner and operator of an air contamination source subject to this section and §§ 129.111—129.114 shall keep records to demonstrate compliance with §§ 129.111—129.114 and submit reports to the Department or appropriate approved local air pollution control agency in accordance with the applicable regulations in 25 Pa. Code, Part I, Subpart C, Article III (relating to air resources) and as specified in the operating permit or plan approval for the air contamination source







as follows:

- (1) The records shall include sufficient data and calculations to demonstrate that the requirements of §§ 129.111—129.114 are met.
- (2) Data or information required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.
- (3) The records necessary to determine compliance shall be reported to the Department or appropriate approved local air pollution control agency on a schedule specified in the applicable regulation or as otherwise specified in the operating permit or plan approval for the air contamination source.
- (g) Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable NOx emission rate threshold specified in § 129.114(b) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.
- (h) Beginning with the compliance date specified in § 129.112(a), the owner or operator of an air contamination source claiming that the air contamination source is exempt from the applicable VOC emission rate threshold specified in § 129.114(c) and the requirements of § 129.112 based on the air contamination source's potential to emit shall maintain records that demonstrate to the Department or appropriate approved local air pollution control agency that the air contamination source is not subject to the specified emission rate threshold.
- (i) The owner or operator of a combustion unit or process heater subject to § 129.112(b) shall record each adjustment conducted under the procedures in § 129.112(b). This record must contain, at a minimum:
- (1) The date of the tuning procedure.
- (2) The name of the service company and the technician performing the procedure.
- (3) The final operating rate or load.
- (4) The final NOx and CO emission rates.
- (5) The final excess oxygen rate.
- (6) Other information required by the applicable operating permit.
- (j) The owner or operator of a Portland cement kiln subject to § 129.112(h) shall maintain a daily operating log for each Portland cement kiln. The record for each kiln must include:
- (1) The total hours of operation.
- (2) The type and quantity of fuel used.
- (3) The quantity of clinker produced.
- (4) The date, time and duration of a start-up, shutdown or malfunction of a Portland cement kiln or emissions monitoring system.
- (k) The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).





*** Permit Shield in Effect. ***







Group Name: **GROUP 09**

Group Description: Engineered fuel system - PLAN APPROVAL #48-00004C

Sources included in this group

Name

203 ENGINEERED FUEL RECEIVING DOSING CONVEYING SYSTEM

C203-AFUEL CHAIN CONVEYOR DUST COLLECTOR

C203-BFUEL DOSING DEVICE DUST COLLECTOR

RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The use of any in-plant roads associated with the aforementioned source(s) shall not results in the emission of fugitive particulate matter in excess of the limitations specified in Sections 123.1 and 123.2 of Chapter 123 of the Rules and Regulations of the Department of Environmental Protection.

[25 Pa. Code §127.512]

Operating permit terms and conditions.

The operation of all associated engineered fuel system equipment shall at all times be in compliance with 25 PA Code Section 123.1.

003 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The storage and handling of the material collected in the air cleaning device(s) associated with the aforementioned source(s) shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in Section 123.1 of chapter 123 of the Rules and Regulations of the Department of Environmental Protection.

004 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Pursuant to the Best Available Technology provision of 25 PA Code, Sections 127.1 and 127.12, the PM emissions from the baghouses is subject to the following emission limitations:

a. 0.01 grains per dry standard cubic foot

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Control of fugitive particulate matter emissions from the vehicle used to transport engineered fuel may include, but is not limited to the following measures:

- I. Use of completely enclosed vehicles.
- II. Tarping the vehicle;
- III. Maintaining the vehicle body in such a condition that any leaks of material are prevented;
- IV. Spraying the materials in the vehicle with a chemical dust suppressant;
- V. Washing and dewatering truck tires and underbody.

TESTING REQUIREMENTS.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

If at any time the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be in excess of the limitations specified in, or established to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the revisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.





III. MONITORING REQUIREMENTS.

48-00004

007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The company shall ensure that the control devices be equipped with vendor specified monitoring equipment and the mechanical gauge(s) specified in condition above shall be installed, calibrated, operated, and maintained according to the vendor's specifications at all times the control device is in use.

[25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Mechanical gauge shall be installed and maintained to indicate, in inches of water column, the static pressure differential across the baghouses.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the pressure drop across the baghouses. At a minimum these recordings shall be taken once per week, while the sources and baghouses are in operation. The recordings shall be maintained in a logbook and made available to the Department upon request.

010 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The company shall maintain a file containing all records and other data that are required to be collected pursuant to the various provisions of this plan approval. The file shall include, but not be limited to: all air pollution control systems performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment which is subject to this plan approval. All measurements, records and other data required to be maintained by the company shall be retained for at least two years following the date on which such measurements, records or data are recorded.

V. REPORTING REQUIREMENTS.

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

1. Any notification as a result of any condition herein should be directed to:

Mark J Weikszner, P.E.

Program manager

Department of Environmental Protection

Air Quality Program

2 Public Square

Wilkes-Barre, PA 18701-1915.

2. Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be consider a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.

VI. WORK PRACTICE REQUIREMENTS.

[25 Pa. Code §127.512]

Operating permit terms and conditions.

- 1. Dust collected in the baghouse filters shall be discharged into closed containers only.
- 2. The company shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse(s) associated with the aforementioned source(s) in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the source(s) and baghouse(s).
- 3. The aforementioned source(s) may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.







013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- 1. Open topped trucks shall be denied access. Notice of this requirements shall be conspicuously posted.
- 2. All equipment associated with enginnered fuel receiving operations, which are not entirely located inside a building, shall be fully enclosed.

014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

n order to prevent fugitive particulate matter resulting from the use of the in plant roads from becoming airborne, the company shall adhere to the following plan:

- 1. All paved in plant roads shall be swept on as-needed basis, weather permitting.
- 2. Water and/or chemicals to be applied on all paved and unpaved inplant roads as needed to control the fugitive emissions.
- 3. The company shall keep a log of the dates of road sweeping or cleaning.

015 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The company shall keep on hand such equipment and materials as are necessary to take reasonable action (including but not necessarily limited to the application of water, oil or chemicals) to prevent fugitive particulate matter resulting from the use of any roadways and/or material stockpiling operations associated with the plant from becoming airborne and shall be used, as necessary, to prevent such fugitive particulate matter from becoming airborne.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

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SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.





SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.







SECTION H. Miscellaneous.

- (a) The Department received the operating permit application for this facility on 10/11/2023. The facility is required to pay an Annual Operating Permit Maintenance Fee in accordance with Pennsylvania Code, Title 25, Chapter 127, Section 127.704(d). The Annual Maintenance Fee is due on or before December 31 of each year for the next calendar year.
- (b) This permit is a renewal of Operating Permit No. TV 48-00004 and includes conditions from Operating Permit No. TV 48-00004 issued 05/03/2001 and the following Plan Approvals, Amendments, and GP:
- 48-309-118C (modification of Kiln and upgrade of Clinker Cooler, issued 12/31/2008).
- 48-309-025 (10 silos at Plant II, 1976).
- 48-309-081 (finish mill Plant II, 1990).
- 48-309-126 (CO emission limits and modifications to emission limits on baghouses, 2009).
- 48-309-131 (reduce PM emission limit on baghouse for Railcar Loading Station #1, 2009).
- 48-309-134 (installation of SNCR, 2011).
- 48-310-052GP3 (crusher).
- 48-00004A (2016 for modification and addition of Kiln #1 air pollution control devices).
- 48-00004B (2018 for combustion of generic engineered fuel (EF) in the kiln and the construction of an EF receiving, dosing and conveying system).
- Amendment August 9, 2018.
- Plan Approval #48-00004C issued October 22, 2024.
- (c) This is a Titile V Operating Permit facility.
- (d) The following is a list of sources that have been determined by the Department to be of minor significance under 25 Pa. Code, Chapter 127, Section 127.14(a)(8) and are not regulated in this TV Operating Permit. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-143:
 - (1) 0.7 mmBTU/hr. WEBEN JARCO boiler.
 - (2) CAT D339 Emergency Generator, RFD approved.
 - (3) 0.5 MM BTU/HR. CB 500 Comfort Heater, RFD approved.
 - (4) Portable Crusher.

The following restrictions apply to (2):

- (i) NOx emissions shall be less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis from the Emergency Generator.
- (ii) The permittee shall comply with all associated requirements of 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII.
- (iii) The Emergency Generator is limited to 500 hours of operation based on a 12 month rolling sum.
- (iv) The permittee shall, at a minimum, record and maintain records showing the NOx emission limit and hour restriction. In addition records shall be maintained in accordance with 40 CFR 63 Subpart ZZZZ and 40 CFR 60 Subpart IIII. These records shall be made available to the department and maintained for a period of five (5) years.
- (v) The Emergency Generator shall be equipped with a non-resettable meter for hours of operation prior to startup and the meter shall be operated at all times the source is in operation.
- (vi) The permittee shall keep records of the number of hours that the source operates on a monthly basis to verify compliance with the operation hours restriction in any 12 consecutive month period.
- (vii) PM emissions shall not exceed 0.04 gr/dscf.

The following RFD's have been approved:

- (1) RFD #48-0689 approved 08/06/2013 to allow usage of CAT D399 Emergency DieselGenerator during periods when the plant has no electrical power.
- (2) RFD #48-0690 approved 08/06/2013 to allow usage of a Coal Mill Hauck Heater during periods when the Kiln is not in operation and heat from the Clinker Cooler is not available.
- (3) RFD #48-0691 approved 08/06/2013 to allow usage of a Clean Burn 500 Comfort Heater during cold months and serves to provide comfort heat for mobile equipment.

RFD's (2) and (3) shall comply with the following conditions:

- Per 40 CFR 63 Subpart DDDDD Table 3, Item 2, by conducting a tune-up biennially in accordance with the requirements of 40 CFR 63.7540.
- Per 40 CFR 63.7500(a)(3) at all times must operate and maintain any affected source (as defined in 63.7490), including







SECTION H. Miscellaneous.

associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practice for minimizing emissions.

On August 8, 2018 this permit was administratively amended to include the newly applicable requirements from Plan Approval No. 48-00004B.

This Title V Permit includes RACT II and RACT III requirements.

On July 7, 2025 this permit was administratively amended to include the newly applicable requirements from Plan Approval No. 48-00004C.





***** End of Report *****