



NOT TO BE USED FOR
TITLE V APPLICATIONS

PERMIT APPLICATION

APC 20

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH EMISSION SOURCE, ATTACH APPROPRIATE SOURCE DESCRIPTION FORMS.

1. ORGANIZATION'S LEGAL NAME Central Lime & Cement, LLC	APC COMPANY - POINT NO. 60-0165-01
2. MAILING ADDRESS (ST/RD/P.O. BOX) P.O. Box 1589	APC LOG/PERMIT NO. 45429
CITY Columbia	PHONE WITH AREA CODE 615-388-4179
3. PRINCIPAL TECHNICAL CONTACT J.L. Smith	PHONE WITH AREA CODE 615-381-0687
4. SITE ADDRESS (ST/RD/HWY) 343 Theta Pike	COUNTY NAME Maury
CITY OR DISTANCE TO NEAREST TOWN Columbia, Tenn.	PHONE WITH AREA CODE 615-388-4179
5. EMISSION SOURCE NO. (NUMBER WHICH UNIQUELY IDENTIFIES THIS SOURCE) 60-0165-01	PERMIT RENEWAL YES () NO (X)

6. BRIEF DESCRIPTION OF EMISSION SOURCE

Ready Mixed Concrete Batching Plant (Scales and Hopper Baghouse, Storage Silo Baghouse, Fugitives)

7. TYPE OF PERMIT REQUESTED

CONSTRUCTION	STARTING DATE	COMPLETION DATE	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
()				
OPERATING	DATE CONSTRUCTION STARTED	DATE COMPLETED	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
(X)	4-8-96	6-10-96	943842P	60-0165-01
LOCATION TRANSFER	TRANSFER DATE		LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
()				

ADDRESS OF LAST LOCATION

8. DESCRIBE CHANGES THAT HAVE BEEN MADE TO THIS EQUIPMENT OR OPERATION SINCE THE LAST CONSTRUCTION OR OPERATING PERMIT APPLICATION.

9. SIGNATURE (APPLICATION MUST BE SIGNED BEFORE IT WILL BE PROCESSED)

DATE

7-10-96

J. L. Smith
SIGNER'S NAME (TYPE OR PRINT)

TITLE

PHONE WITH AREA CODE

J.L. Smith

Owner

615-388-4179

TABLE OF POLLUTION REDUCTION DEVICE OR METHOD CODES
(ALPHABETICAL LISTING)

NOTE: FOR CYCLONES, SETTLING CHAMBERS, WET SCRUBBERS, AND ELECTROSTATIC PRECIPITATORS, THE EFFICIENCY RANGES CORRESPOND TO THE FOLLOWING PERCENTAGES

HIGH, 95 - 99+%; MEDIUM, 80 - 95%; AND LOW, LESS THAN 80%.

IF THE SYSTEM HAS SEVERAL PIECES OF CONNECTED CONTROL EQUIPMENT, INDICATE THE SEQUENCE FOR EXAMPLE

008 010, 97%

IF NONE OF THE BELOW CODES FIT, USE 999 AS A CODE FOR OTHER AND SPECIFY IN THE COMMENTS

NO EQUIPMENT	000	LIMESTONE INJECTION — DRY	041
ACTIVATED CARBON ADSORPTION	048	LIMESTONE INJECTION — WET	042
AFTERBURNER — DIRECT FLAME	021	LIQUID FILTRATION SYSTEM	049
AFTERBURNER — DIRECT FLAME WITH HEAT EXCHANGER	022	MIST ELIMINATOR — HIGH VELOCITY	014
AFTERBURNER — CATALYTIC	019	MIST ELIMINATOR — LOW VELOCITY	015
AFTERBURNER — CATALYTIC WITH HEAT EXCHANGER	020	PROCESS CHANGE	045
ALKALIZED ALUMINA	040	PROCESS ENCLOSED	054
CATALYTIC OXIDATION — FLUE GAS DESULFURIZATION	039	PROCESS GAS RECOVERY	060
CYCLONE — HIGH EFFICIENCY	007	SETTLING CHAMBER — HIGH EFFICIENCY	004
CYCLONE — MEDIUM EFFICIENCY	008	SETTLING CHAMBER — MEDIUM EFFICIENCY	005
CYCLONE — LOW EFFICIENCY	009	SETTLING CHAMBER — LOW EFFICIENCY	006
DUST SUPPRESSION BY CHEMICAL STABILIZERS OR		SPRAY TOWER (GASEOUS CONTROL ONLY)	052
WETTING AGENTS	062	SULFURIC ACID PLANT — CONTACT PROCESS	043
ELECTROSTATIC PRECIPITATOR — HIGH EFFICIENCY	010	SULFURIC ACID PLANT — DOUBLE CONTACT PROCESS	044
ELECTROSTATIC PRECIPITATOR — MEDIUM EFFICIENCY	011	SULFUR PLANT	045
ELECTROSTATIC PRECIPITATOR — LOW EFFICIENCY	012	VAPOR RECOVERY SYSTEM (INCLUDING CONDENSERS,	
FABRIC FILTER — HIGH TEMPERATURE	016	HOODING AND OTHER ENCLOSURES)	047
FABRIC FILTER — MEDIUM TEMPERATURE	017	VENTURI SCRUBBER (GASEOUS CONTROL ONLY)	053
FABRIC FILTER — LOW TEMPERATURE	018	WET SCRUBBER — HIGH EFFICIENCY	001
FABRIC FILTER — METAL SCREEN COTTON GINS	059	WET SCRUBBER — MEDIUM EFFICIENCY	002
FLARING	023	WET SCRUBBER — LOW EFFICIENCY	003
GAS ADSORPTION COLUMN — PACKED	050	WET SUPPRESSION BY WATER SPRAYS	061
GAS ADSORPTION COLUMN — TRAY TYPE	051		
GAS SCRUBBER (GENERAL, NOT CLASSIFIED)	013		

TABLE OF EMISSION ESTIMATION METHOD CODES

NOT APPLICABLE EMISSIONS ARE KNOWN TO BE ZERO	0
EMISSIONS BASED ON SOURCE TESTING	1
EMISSIONS BASED ON MATERIAL BALANCE USING ENGINEERING EXPERTISE AND KNOWLEDGE OF PROCESS	2
EMISSIONS CALCULATED USING EMISSION FACTORS FROM EPA PUBLICATION NO. AP-42 COMPILATION OF	
AIR POLLUTANT EMISSION FACTORS	3
JUDGEMENT	4
EMISSIONS CALCULATED USING A SPECIAL EMISSION FACTOR DIFFERING FROM THAT IN AP-42	5
OTHER (SPECIFY IN COMMENTS)	6



CONCRETE BATCH PLANT SOURCE DESCRIPTION

APC 122

Please type or print, submit in duplicate and attach to the permit application. Attach a plant diagram according to the instructions given below.

1. ORGANIZATION NAME Central Lime & Cement, LLC				F O R A P C	APC COMPANY - POINT NO.	
2. EMISSION SOURCE NO. (FROM APPLICATION) 60-0165-01			SIC CODE 3273		APC LOG/PERMIT NO.	
3. SOURCE LOCATION:	LATITUDE 35° 38' 30"	LONGITUDE 87° 1' 45"	UTM VERTICAL N/A	UTM HORIZONTAL N/A		
4. NORMAL OPERATION: SCHEDULE:	HOURS/DAY 10	DAYS/WEEK 6	WEEKS/YEAR 52	DAYS/YEAR 312		
5. PERCENT ANNUAL THROUGHPUT:	DEC.-FEB. 15	MARCH-MAY 30	JUNE-AUG. 30	SEPT.-NOV. 25		
6. ANNUAL PRODUCTION: (YARDS)	TRANSIT MIX 75,000 (Est.)	CENTRAL MIX	DRY MIX	DATE CONSTRUCTED 4-8-96		
7. ROAD DUST CONTROL:	NONE	PAVED	OILED	WATERED FREQUENTLY		
PLANT YARD:				X (As needed)		
ACCESS ROADS:				X (as needed)		
8. STOCKPILES:	ESTIMATED ANNUAL TONNAGE	NUMBER OF SIDES ENCLOSED	TURNOVER RATE (TONS/MONTH)	RECEIVED DAMP	WETTED AS RECEIVED	
GRAVEL:	69,000	0 (Est.)	5800	X	No	
SAND:	51,000	0 (Est.)	4300	X	No	
9. CEMENT RECEIVING EQUIP. (CIRCLE OR COMPLETE AS APPROPRIATE)	CONVEYOR ENCLOSED (YES or NO Est.)	ELEVATOR ENCLOSED YES or NO N/A	COMPRESSED AIR FLOW (FT ³ /MIN.) 1800 (max.) 600 (Avg.)	AVE. LOAD SIZE (TONS) 25	NORM. LOADING TIME (MIN.) 45 min. (approx.)	
10. CEMENT STORAGE SILOS:	NUMBER OF SILOS 2 (Est.)	TOTAL CAPACITY (UNITS: BARRELS OR TONS) 250	SILO VENT CONTROLS DISCHARGES TO <u>FABRIC FILTER</u> ANOTHER SILO OTHER NONE			
11. WEIGH-BATCHER:	CAPACITY (YARDS) 12 (Est.)	BATCHING RATE (YARDS/HOUR) 90	BATCH DUMPING RATE (YARDS/MINUTE) 10			
SILO-TO-WEIGH-BATCHER VENT CONTROLS	HOOD <u>FABRIC FILTER</u> DISCHARGES TO SILO NONE					
12. WEIGH-BATCHER:	DISCHARGES TO: (IN YARDS/YEAR)					
(COMPLETE OR CIRCLE AS APPROPRIATE)	TRUCKS 75,000	TILT	PRODUCTS MIXER Transit Mix			
WEIGH-BATCHER DISCHARGE CHUTE CONTROLS:						
ADJUSTABLE GATHERING HOPPER <u>HOOD</u> FABRIC FILTER DISCHARGES TO SILO NONE						

CONCRETE BATCH PLANT DIAGRAM INSTRUCTIONS: SHOW GENERAL PLANT LAYOUT AND AIR POLLUTION CONTROL DEVICES. INDICATE THE FOLLOWING: STORAGE PILE AREAS, CONVEYOR SYSTEMS, METHOD OF RECEIVING CEMENT, ELEVATORS, SILOS, SILO VENTS, SILO-TO-WEIGH-BATCHER VENT, WEIGH-BATCHER DISCHARGE CHUTE AND PRODUCT RECEIVING EQUIPMENT, SUCH AS TRUCKS AND TILT OR PRODUCT MIXERS. INDICATE AIR POLLUTION CONTROL DEVICES, SUCH AS FABRIC FILTERS, WET SUPPRESSIONS, HOODS, CANVAS COVERINGS, ENCLOSURES, ETC.

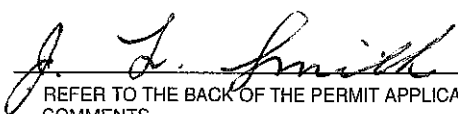
13. EMISSION POINT DATA FOR:	SILO VENT	SILO-TO-WEIGH-BATCHER VENT	WEIGH-BATCHER DISCHARGE CHUTE	
A. HEIGHT ABOVE GRADE (FT)	Approx. 62'	Approx. 25'	Approx. 13'	
B. DIAMETER (FT)	10 1/8"	8"X 6"	Approx. 8"	
C. EMISSION EXIT DIRECTION (UP, DOWN, or HORIZONTAL)	Up	Down	Up	
D. AIR FLOW RATE (FT ³ /MINUTE)	1800 CFM (Max.) 600 CFM (Avg.)	200 CFM (max.) 70 CFM (Avg.)	70 CFM (Est.)	
14. PARTICULATE AIR CONTAMINANTS	SILO VENT	SILO-TO-WEIGH-BATCHER VENT	WEIGH-BATCHER DISCHARGE CHUTE	TOTALS (FOR APC ONLY)
A. AVERAGE EMISSIONS (POUNDS/HOUR)	1.29	— —	— —	
B. MAXIMUM EMISSIONS (POUNDS/HOUR) *	3.86*	— —	— —	
C. AVERAGE EMISSIONS (TONS/YEAR)	11.3	— —	— —	
D. EMISSIONS ESTIMATION METHOD*	#3 (AP-42)	#3 (AP-42)	#3(AP-42)	
E. CONTROL DEVICES*	018 Fabric Filter	018 Fabric Filter	Hood	
F. CONTROL EFFICIENCY %	99.95%	99.995%	+99% (Est.)	
15. COMMENTS	— —	— —	— —	

*This application requests the following emissions from this plant site:

$$1800 \text{ CFM} \times 0.25 \text{ GR/DRY CF} \times \frac{1\#}{7000 \text{ Grain}} \times \frac{60 \text{ min}}{\text{Hr}} = 3.86 \text{ \#/HR (Each Silo)}$$

$$\text{Total (for 2 Silos) would be: } 2 \times 3.86 \times 8760 \text{ HR/YR} = 6780 \text{ \#/YR} \quad 2000 \text{ \#/TN} = 33.8 \text{ TN/YR}$$

16. SIGNATURE



J.L. Smith, Owner

DATE

7-10-96

REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL CODES. IF THE CODE IS "OTHER", SPECIFY IN COMMENTS.



Central Lime & Cement, LLC

P.O. BOX 1589
COLUMBIA, TENNESSEE 38402
(615) 388-4179



cmw
7-12-96

July 10, 1996

Mr. John W. Walton, P.E.
Director Division of Air Pollution Control
Tennessee Department of Environment and Conservation
9th Floor, L & C Annex
401 Church Street
Nashville, Tennessee 37243-1531
Attn: Richard Beckwith

FEDERAL EXPRESS #7336652735

RECEIVED

JUL 12 1996

RE: Air Permit #943842P
Central Lime & Cement, LLC
343 Theta Pike
Maury County (Columbia), Tennessee

COLUMBIA FIELD OFFICE
DIV. OF AIR POLLUTION CONTROL

Dear Mr. Walton:

Central Lime & Cement, LLC has completed construction of our new ready mixed concrete plant on 343 Theta Pike Columbia, Tennessee.

Therefore, we are requesting the issuance of a permanent air permit. Please find enclosed copies of the application and concrete batch plant source description (APC 122). If you have any questions or need any further information, please do not hesitate to contact me.

CENTRAL LIME & CEMENT, LLC

J. L. Smith

J.L. SMITH, OWNER

Enclosures

JLS/ska

*For
Carol Williams*