

TENNESSEE AIR POLLUTION CONTROL BOARD  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
NASHVILLE, TENNESSEE 37243-1531

Co. File



Permit to Operate and  
Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: NOV 03 1995

Permit Number:  
743387P

Date Expires: January 1, 1999

Issued To:  
Harrison Construction Company  
Div. of APAC-Tennessee, Inc.

Installation Address:  
Union Valley Road  
Oak Ridge

Installation Description:  
Ready Mix Concrete Batch Plant  
Baghouse Control.

Emission Source Reference No.:  
01-0054-01

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated June 28, 1995 and signed by Dale W. Buchanan, Concrete Operations Manager of the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(Continued on the next page)

John W. Walton

RWB

TECHNICAL SECRETARY

ART

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. Production rate for this source shall not exceed 200,000 cubic yards (cu/yd) of concrete per calendar year.

This emission limitation is established pursuant to Rule 1200-3-7-.01(5) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated October 24, 1995 from the permittee.

3. Particulate matter (TSP) emitted from this source shall not exceed 0.25 grains per dry standard cubic foot of exhaust gas [0.92 pounds per hour (lb/hr)].
4. Visible emissions from the silo system shall not exceed 20 percent or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, No. 219 on November 12, 1974.
5. Visible emissions from roads shall meet 10 percent opacity utilizing Tennessee Visible Emission Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982, and as amended on August 24, 1984.
6. Visible emissions from this source (not covered by Conditions 4 and 5) shall not exceed 20 percent or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, No. 219 on November 12, 1974.
7. Reasonable precautions must be taken to prevent the generation of fugitive dust as these precautions are defined in Rule 1200-3-8-.01 in the Tennessee Air Pollution Control Regulations.
8. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control devices. Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than two years.
9. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(es) served by the device(s) shall be regulated by Chapter 1200-3-20 of the Tennessee Air Pollution Control Regulations.

(Continued on the next page)

10. A record of the concrete production at this facility, as shown in the table below, must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record must be retained for a period of not less than two years.

DAY NO.	DATE	DAILY PRODUCTION	DAY NO.	DATE	DAILY PRODUCTION
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16					
TOTAL PRODUCTION FOR _____, 199__ IN CU/YD PER MONTH					

MONTH	MONTHLY PRODUCTION	MONTH	MONTHLY PRODUCTION
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	
TOTAL PRODUCTION IN CU/YD PER YEAR FOR 199__			

11. This permit is valid only at this location.
12. The issuance of this combination construction and operating permit supersedes any previously issued permit for this air contaminant source.
13. Sixty (60) days prior to the expiration of this permit, permittee shall apply for permit renewal.

(End of Conditions)

# Emission Summary

Permit Number: 743387P

Source Status: New ☐ Modification ☒ Expansion ☐ Relocation ☐

Permit Status: New ☐ Renewal ☒

PSD ☐ NSPS ☐ NESHAPs ☐

Previous Permit Number: Construction 939418P Operating \_\_\_\_\_

	Pounds/Hour			Tons/Year				Date of Data	*	Applicable Standard 1200-3-
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change			
TSP	<i>Negl</i>	<i>Negl</i>	<i>0.92</i>	<i>Negl</i>	<i>Negl</i>	<i>4.03</i>	<i>+3.03</i>	<i>6/28/95</i>		<i>7-04(2) (25%)</i>
SO <sub>2</sub>										<i>7-01(5)</i>
CO										<i>agreement letter</i>
VOC										
NO <sub>x</sub>										

\* - Source of data

*Harrison Construction, Div of APC*  
*Concrete Ready Mix Plant 200 cu yds/hr*  
*01-0054 -01*

PERMITTING PROGRAM: *RWB*

DATE: *10/23/95*

# Harrison Construction Calculations

Rev B

01-0054-01

10/23/95

743387P

Ready Mix Concrete Plant @ 200 cu. yds./hr.

$$\text{Operation: } 9 \frac{\text{HR}}{\text{DAY}} \left( 5 \frac{\text{DAY}}{\text{WK}} \right) 52 \frac{\text{WK}}{\text{YR}} = 2,340 \frac{\text{HR}}{\text{YR}}$$

agreement letter dated Oct 23 1995  
for 200,000 yd<sup>3</sup>/yr.

$$\text{Allowable: } 1201-3-7-.04(2) \text{ or } 0.25 \text{ g/yd}^3$$

$$\text{TSP} = \frac{4 \text{ silos } (430 \text{ CFM ea}) 0.25 \text{ g/dust } \left( \frac{60 \text{ min}}{\text{HR}} \right)}{2000 \text{ g/lb}} = 0.92 \frac{\text{lb}}{\text{HR}}$$

$$\frac{200,000 \text{ yd}^3/\text{yr}}{200 \text{ yd}^3/\text{hr.}} = 1,000 \frac{\text{HR}}{\text{yr.}}$$

$$\text{ALLOWABLE } 0.92 \frac{\text{lb}}{\text{HR}} (4.38 \text{ K}) = 4.03 \text{ TPY}$$

$$\text{TSP Actuals per AP42 table 8.10-2 dated 10/86}$$

$$\text{Cement Silos } \left( 0.07 \frac{\text{lb}}{\text{yd}^3} \right) 200,000 \text{ yd}^3/\text{yr} = 14,000 \frac{\text{lb}}{\text{yr}}$$

$$14,000 \frac{\text{lb}}{\text{yr}} (1 - 0.996) = 56 \frac{\text{lb}}{\text{yr}} \text{ TSP or } \div 1000 \text{ hr/yr} = 0.056 \frac{\text{lb}}{\text{HR}}$$

$$\text{Netting: } 4.03 \text{ TPY} - 1.0 = +3.03 \text{ or Negligible}$$

new allowable

# CONSTRUCTION PERMIT SUMMARY REPORT

Company Name: Div. of APAC Harrison Construction File Number: 01-0054 Env. Prot. Spec. Initials: JMB  
Permit Number(s): 743387 p Source Point Number(s): 01  
Application Received (date): 9/20/95 Application Complete (date): 9/20/95  
Air Quality Analysis Performed? Yes ☐ No ☒

Briefly describe the project: (new source, modifications) (what the process is) (type controls proposed) (emissions expected, qualitative) (replacing what sources) (background information)

Existing source taking an agreed limit on c.u.p.s./yr  
Fabric Filter at Silo Vents  
Actual emissions of TSP's are negligible.

## Rules Analysis

Title V ☐ Cond. Major ☐ Minor ☒ Source category listed in 1200-3-9-.01(4)(b)1.(i)? Yes ☐ No ☒  
Reason for PSD: New source above      TPY ☐ Sig. increase in      emissions ☐ N/A ☒  
Applicable NSPS: 40 CFR Part 60, Subpart      ☐ State Rule 1200-3-16-.      ☐ N/A ☒  
Applicable NESHAP: 40 CFR Part 61, Subpart      ☐ State Rule 1200-3-11-.      ☐ N/A ☒  
" " 40 CFR Part 63, Subpart      ☐ State Rule 1200-3-31-.      ☐ N/A ☒

## Other Applicable State Rules

7-.01(5) agreement letter  
TSP Emissions: 1200-3- 7-.04 ☒ N/A ☐ NO<sub>x</sub> Emissions: 1200-3-      ☐ N/A ☐  
SO<sub>2</sub> Emissions: 1200-3-14-.      ☐ N/A ☐ Lead Emissions: 1200-3-      ☐ N/A ☐  
CO Emissions: 1200-3-      ☐ N/A ☐      Emissions: 1200-3-      ☐ N/A ☐  
VOC Emissions: 1200-3-      ☐ N/A ☐      Emissions: 1200-3-      ☐ N/A ☐

Visible Emissions from silo source not to exceed 20% opacity per Method 9 (Rule 1200-3- 7-.     )  
Visible Emissions from roads not to exceed 10% opacity per Method 1 (Rule 1200-3- 7-.     )  
Visible Emissions from      not to exceed     % opacity per Method      (Rule 1200-3-     -.     )

Comments: