

# ADEQ

ARKANSAS  
Department of Environmental Quality

**MAR - 2 2020**

Stanza Donald, EHS Manager  
CoorsTek Benton  
3315 Boone Road  
Benton, AR 72015

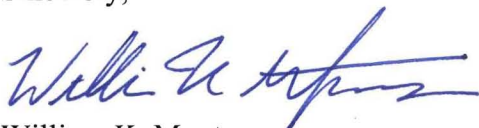
Dear Ms. Donald:

The enclosed Permit No. 1672-AR-12 is your authority to construct, operate, and maintain the equipment and control apparatus as set forth in your application initially received on September 17, 2019.

After considering the facts and requirements of Arkansas Code Annotated § 8-4-101 *et seq.*, as referenced by § 8-4-304, and implementing regulations, I have determined that Permit No. 1672-AR-12 for the construction and operation of equipment at CoorsTek Benton, shall be issued and effective on the date specified in the permit, unless a Commission review has been properly requested under Arkansas Pollution Control & Ecology Commission's Administrative Procedures, Regulation No. 8, within thirty (30) days after service of this decision.

The applicant or permittee and any other person submitting public comments on the record may request an adjudicatory hearing and Commission review of the final permitting decisions as provided under Chapter Six of Regulation No. 8. Such a request shall be in the form and manner required by Regulation 8.603, including filing a written Request for Hearing with the Commission secretary at 3800 Richards Rd, North Little Rock, Arkansas 72117. If you have any questions about filing the request, please call the Commission at 501-682-7890.

Sincerely,



William K. Montgomery  
Interim Associate Director  
DEQ, Office of Air Quality

Enclosure: Final Permit

cc: dmorrissey@coorstek.com

## RESPONSE TO COMMENTS

### COORSTEK BENTON PERMIT #1672-AR-12 AFIN: 63-00164

On January 10, 2020, the Director of the Arkansas Division of Environmental Quality gave notice of a draft permitting decision for the above referenced facility. During the comment period, written comments on the draft permitting decision were submitted on behalf of the facility. The Division's response to these issues follows.

*Note: The following page numbers and condition numbers refer to the draft permit. These references may have changed in the final permit based on changes made during the comment period.*

**Comment #1:** Correct the hourly emission limits for SN-08A in Specific Condition 1 and 2.

**Response to Comment #1:** The requested changes were made. The summary table of Total Allowable Emissions in the permit was also updated to reflect the changes.

# ADEQ MINOR SOURCE AIR PERMIT

Permit No. : 1672-AR-12

IS ISSUED TO:

CoorsTek Benton  
3315 Boone Road  
Benton, AR 72015  
Saline County  
AFIN: 63-00164

THIS PERMIT IS THE ABOVE REFERENCED PERMITTEE'S AUTHORITY TO CONSTRUCT, MODIFY, OPERATE, AND/OR MAINTAIN THE EQUIPMENT AND/OR FACILITY IN THE MANNER AS SET FORTH IN THE DEPARTMENT'S MINOR SOURCE AIR PERMIT AND THE APPLICATION. THIS PERMIT IS ISSUED PURSUANT TO THE PROVISIONS OF THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT (ARK. CODE ANN. § 8-4-101 *ET SEQ.*) AND THE REGULATIONS PROMULGATED THEREUNDER, AND IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:



William K. Montgomery  
Interim Associate Director  
DEQ, Office of Air Quality

**MAR - 2 2020**

Date

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

Table of Contents

Section I: FACILITY INFORMATION .....	4
Section II: INTRODUCTION.....	5
Summary of Permit Activity .....	5
Process Description.....	5
Regulations .....	6
Total Allowable Emissions .....	7
Section III: PERMIT HISTORY .....	8
Section IV: EMISSION UNIT INFORMATION.....	10
Section V: INSIGNIFICANT ACTIVITIES .....	13
Section VI: GENERAL CONDITIONS .....	14

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

#### List of Acronyms and Abbreviations

Ark. Code Ann.	Arkansas Code Annotated
AFIN	ADEQ Facility Identification Number
C.F.R.	Code of Federal Regulations
CO	Carbon Monoxide
HAP	Hazardous Air Pollutant
lb/hr	Pound Per Hour
No.	Number
NO <sub>x</sub>	Nitrogen Oxide
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter Smaller Than Ten Microns
SO <sub>2</sub>	Sulfur Dioxide
Tpy	Tons Per Year
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

Section I: FACILITY INFORMATION

PERMITTEE: CoorsTek Benton

AFIN: 63-00164

PERMIT NUMBER: 1672-AR-12

FACILITY ADDRESS: 3315 Boone Road  
Benton, AR 72015

MAILING ADDRESS: 3315 Boone Road  
Benton, AR 72015

COUNTY: Saline County

CONTACT NAME: Stanza Donald

CONTACT POSITION: EHS Manager

TELEPHONE NUMBER: (501) 776-5548

REVIEWING ENGINEER: Shawn Hutchings

UTM North South (Y): Zone 15: 3828744.73 m

UTM East West (X): Zone 15: 541521.54 m

## Section II: INTRODUCTION

### Summary of Permit Activity

Coorstek, Inc. owns and operates a high technology custom ceramic product manufacturing facility located at 3315 Boone Road, Benton, AR. This modification is to increase the annual throughput for SN-03 to 2,400,000 lbs/year and for SN-08 to 1,200,000 lbs per year. Source SN-08 is a group of 16 Carbide Electric Furnaces existing in two buildings. After the modification the facility will increase to a total of 25 furnaces with the furnaces controlled by an afterburner for each building. The 12 furnaces in Building A will be SN-08A. The 13 in Building B will become SN-08B. The annual emissions for SN-08A and B will remain bubbled, but hourly rates will be separate. This modification also adds a new process building (Building C) consisting of Vacuum Hot Presses, and four electric binder burnout ovens (BBO), SN-09, which will be controlled by afterburners; and add a new process to Building A that will use a vacuum dryer SN-10 to produce specialized ceramic powder.

### Process Description

#### Spray Dryer SN-03

Raw materials are blended into a slurry and processed in the natural gas fired spray dryer to form a powder. The amount and type of product materials processed vary based on demand. The spray dryer is a custom batch operation.

Emissions from the spray dryer are collected by a water based air scrubber.

#### Natural gas fired continuous Tunnel ceramic Alumina Kilns (SN-04 and 05)

The facility has two natural gas-fired continuous tunnel kilns (SN-04 and 05) for firing ceramic parts. The typical firing temperature range for the product kilns is 1,465 to 1,680°C. Depending on the final product, alumina oxide powder is blended with binder material to produce a slurry that goes through the spray drying process. After spray drying, the alumina oxide material is pressed into parts by either an isopress or dry press. Pressed/machined parts are routed to one of the product tunnel kilns for firing. Parts are then tumbled, de-burred, and inspected for flaws in the shake and dye process. Parts are routed to a wet grinding area to be machined to a final dimensional tolerance and are washed to remove any slurry. Ground parts are lapped and polished for the customer-required surface finish and are inspected before packaging and shipping to customers.

#### Carbide Reaction Bonded Process, SN-08A and B

SN-08A accounts for the 12 electric vacuum furnaces in Building A. SN-08B accounts for the 13 electric vacuum furnaces in Building B. Both are controlled by thermal oxidizers. Powder is pressed into parts by an iso press or dry press, which compacts the ceramic powder into a solid

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

shape/form. Machined parts are routed to a cure oven, SN-08A and B, to remove moisture and binders. The material is fired (reacting or sintering ceramic) in one of the twenty five electric vacuum furnaces, SN-08A and B, using silicon metal setters to infiltrate the part. Carbide parts are sandblasted to remove excess metal that builds up on the outside of the reaction bond surface during the firing process. Parts are inspected and routed to the wet grinding area to be machined to a final dimensional tolerance. Ground parts are lapped and polished for the customer required surface finish.

#### The Vacuum Hot Press (VHP) Process, SN-09

The Vacuum Hot Press (VHP) Process is used to produce high-density carbide ceramic to make armor products. Carbide ceramic powder with binder is compacted in a pressure-caster to produce an armor plate. The armor plates are stacked into a graphite mold. The mold is placed into one of four electric binder burnout ovens (BBO), SN-09. The BBO heats the ceramic mold to set the mold and burn out the binders contained in the ceramic powder. The BBO emissions are controlled by a thermal oxidizer. The mold is removed from the BBO and then placed in the electric VHP. The VHP uses high heat and pressure to compact the ceramic in the mold. The mold is removed from the VHP and the armor plates are separated and sandblasted to produce a smooth finish on the plates. The plates are then packaged and sent to the customer.

#### Dust Control

Six baghouses are used for housekeeping and to control occasional dust emissions at the facility. These baghouses are listed as insignificant activities.

#### Regulations

The following table contains the regulations applicable to this permit.

Regulations
Arkansas Air Pollution Control Code, Regulation 18, effective March 14, 2016
Regulations of the Arkansas Plan of Implementation for Air Pollution Control, Regulation 19, effective March 14, 2016



CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

### Total Allowable Emissions

The following table is a summary of emissions from the facility. This table, in itself, is not an enforceable condition of the permit.

TOTAL ALLOWABLE EMISSIONS		
Pollutant	Emission Rates	
	lb/hr	tpy
PM	1.1	3.4
PM <sub>10</sub>	1.0	1.6
PM <sub>2.5</sub>	See Note*	
SO <sub>2</sub>	7.2	30.9
VOC	9.8	27.3
CO	5.6	18.7
NO <sub>x</sub>	7.9	27.4
Total HAP	2.4	7.4
Acetone	12.8	4.7

\*PM<sub>2.5</sub> limits are source specific, if required. Not all sources have PM<sub>2.5</sub> limits.

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

### Section III: PERMIT HISTORY

Permit No. 1672-A was the first permit issued to ACI on May 8, 1996. This permit established permitted emission limits at: 3.0 tpy PM/PM<sub>10</sub>, 3.0 tpy SO<sub>2</sub>, 104.1 tpy VOC, 3.0 tpy CO, 5.5 tpy NO<sub>x</sub>, 3.0 tpy methane, and 0.1 tpy NH<sub>3</sub>.

Permit No. 1672-AOP-R0 was the first Title V permit issued to ACI-Coors Technical Ceramics on April 15, 1998. This permit established permitted emission limits at 101.2 tpy VOC and 0.1 tpy NH<sub>3</sub>.

Permit No. 1672-AR-1 was issued to CoorsTek Arkansas Operations on Dec. 17, 2003. This permit was issued in order to allow the facility to take a federally-enforceable VOC limit of 30.4 tpy. This change allowed the source to again obtain a Minor Source Air Permit rather than a Title V Operating Air Permit. Emission limitations were quantified in this permit at: 5.5 tpy PM/PM<sub>10</sub>, 8.9 tpy SO<sub>2</sub>, 30.4 tpy VOC, 35.8 tpy CO, 15.5 tpy NO<sub>x</sub>, 0.2 tpy NH<sub>3</sub>, and 1.0 tpy of glycol butyl ether. There was no change in the method of operation of the facility with this modification.

Permit No. 1672-AR-2 was issued to CoorsTek Arkansas Operations on May 4, 2005. This permit was issued in order to allow for the following changes: 1) A new milling operations to include a new press and sandblasting operations was installed. 2) Four (4) new baghouses for the purposes of emissions control on the new milling operations were installed. Three of the new baghouses (SN-16, SN-17, & SN-18) were Torit baghouses with 5,000 cfm blowers. These units are similar to SN-12-14 baghouses. The fourth new baghouse utilized a 500 cfm blower (SN-19), similar to the existing SN-10 and SN-11 baghouses. 3) One (1) additional electric vacuum furnace, to be included in SN-08, was installed. 4) The amount of SC30 binder allowable for use in a 12-month period was increased from 70,000 lb/yr to 625,000 lb/yr. The allowable VOC content of the binder remains unchanged at 7% by weight. Permitted emission increases associated with these changes were: 0.4 tpy PM/PM<sub>10</sub> and 19.4 tpy VOC.

Permit No. 1672-AR-3 was issued to CoorsTek Arkansas Operations on May 24, 2007. With this permit modification CoorsTek replaced periodic ceramic kiln #1 (SN-02) with a periodic ceramic kiln (SN-20) and increased the maximum limit on Aquadag (SC2) processing from 60,000 pounds to 120,000 pounds (60 tons) per consecutive 12-month period.

Permit No. 1672-AR-4 was issued to CoorsTek Arkansas Operations on October 14, 2008. With this permit modification, the facility:

1. Removed four baghouses (SN-10, 17, 18, and 19) and one periodic kiln (SN-20);
2. Identified six baghouses (SN-11, 12, 13, 14, 15, and 16) as Insignificant Activities;
3. Added natural gas emissions for Spray Dryer (SN-03), rated 3.5 MMBtu/hr;
4. Updated the ammonium hydroxide (NH<sub>3</sub>OH) evaporative emission factor to 0.1%;
5. Reduced the throughput of silicon carbide (SC30) formulated products, with a maximum 7% organic binder, cured in the Electric Furnace Cure Ovens (SN-08) from 625,000 to 300,000 pounds per 12-month period;

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

6. Included the throughput of green boron carbide (B4C) formulated products, with a maximum 3% organic binder, cured in the Electric Furnace Cure Ovens (SN-08) of 300,000 pounds per 12-month period;
7. Updated reportable HAPs, Ethylene glycol monobutyl ether (EGBE) had been delisted as a HAP; and
8. Updated the soap VOC emission factor for the Alumina Wash Line (SN-09).

Permit 1672-AR-5 was issued on April 26, 2012. With this de minimis modification, the facility added: One silicon carbide pusher furnace with afterburner, three additional electric period furnace cure ovens, four additional silicon carbide furnaces, and an electric drying oven to SN-08, two additional silicon carbide formulations, SA and SP, and replaced dust collector #11 in the insignificant activities with a new Donaldson dust collector.

Permit 1672-AR-6 was issued on May 14, 2015. This modification allowed a 15<sup>th</sup> vacuum furnace to SN-08 to be installed. The 15<sup>th</sup> furnace was previously permitted but never installed. No changes to the permit were necessary to incorporate this change. Emission factors for SN-03, 04, 05, 06, 07, and 08 were updated based on testing and SN-01 was removed.

Permit 1672-AR-7 was issued on June 25, 2015. This permit is an administrative amendment to correct changes which were not made during the comment period of previous permit. Emissions rates, process descriptions, and the throughput limit for SN-08 were corrected.

Permit 1672-AR-8 was issued on February 12, 2016. This permit was a De Minimis modification to air permit 1672-AR-7. Due to production demands and changes, the facility requested to install a sixteenth vacuum furnace at SN-08. This modification did not result in a change in emissions since the annual powder usage limit was not increased. Also, the facility added a small, laboratory-scale vacuum furnace (AMP test Furnace) used for developing and testing materials, as an insignificant source according to group A-13.

Permit 1672-AR-9 was issued on April 6, 2017. This permit updated emission rates on the Tunnel Kilns SN-04, 05, 06, and 07 based on recent testing. Permitted emission rates increased 0.7 tpy of particulate, 0.2 tpy of VOC and 20.7 tpy of NOx. All other pollutants emission rates were reduced.

Permit 1672-AR-10 was issued on April 23, 2018. This administrative amendment removed SN-06 and SN-07 from the permit.

Permit 1672-AOP-R11 was issued on February 14, 2019. This permit modification was a de minimis change to add 7 more Carbide Electric Furnaces to SN-08 for a total of 23. Annual throughput and annual emission rates were not changed.

Section IV: EMISSION UNIT INFORMATION

Specific Conditions

1. The permittee shall not exceed the emission rates set forth in the following table.  
 [Reg.19.501 *et seq.* and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
03	Spray Dryer (natural gas, 3.5 MM Btu/hr)	PM <sub>10</sub>	0.1	0.2
		SO <sub>2</sub>	0.1	0.1
		VOC	4.7	15.7
		CO	0.6	1.8
		NO <sub>x</sub>	0.1	0.1
04	Continuous Tunnel Kiln - Lindberg L32 (natural gas, 2.5 MM Btu/hr)	PM <sub>10</sub>	0.1	0.5
		SO <sub>2</sub>	0.1	0.2
		VOC	0.1	0.3
05	Continuous Tunnel Kiln - Lindberg L30 (natural gas, 3.5 MM Btu/hr)	CO	0.2	0.5
		NO <sub>x</sub>	4.5	19.4
08A	12 Carbide Electric Vacuum Furnaces, and Drying Oven Building A with Afterburner	PM <sub>10</sub>	0.2	0.6
		SO <sub>2</sub>	1.8	27.2
		VOC	0.6	7.8
		CO	1.8	12.8
		NO <sub>x</sub>	1.6	7.1
08B	13 Carbide Electric Vacuum Furnaces, and Drying Oven Building B with Afterburner	PM <sub>10</sub>	0.2	
		SO <sub>2</sub>	4.4	
		VOC	1.3	
		CO	2.3	
		NO <sub>x</sub>	1.5	
09	Binder Burnoff Ovens with Afterburner	PM <sub>10</sub>	0.4	0.3
		SO <sub>2</sub>	0.8	3.4
		VOC	0.1	0.2
		CO	0.7	3.6
		NO <sub>x</sub>	0.2	0.8
10	Vacuum Solvent Dryers	VOC	3.0	3.3

2. The permittee shall not exceed the emission rates set forth in the following table.  
 [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

CoorsTek Benton  
 Permit #: 1672-AR-12  
 AFIN: 63-00164

SN	Description	Pollutant	lb/hr	tpy
03	Spray Dryer (natural gas, 3.5 MM Btu/hr and 0.1% trace evaporative ammonia)	PM HAPs	0.1 1.4	0.2 4.3
04	Continuous Tunnel Kiln - Lindberg L32 (natural gas, 2.5 MM Btu/hr)	PM HAPs	0.2	0.6
05	Continuous Tunnel Kiln - Lindberg L30 (natural gas, 3.5 MM Btu/hr)		N/A	0.1
08A	12 Carbide Electric Vacuum Furnaces, and Drying Oven Building A with Afterburner	PM HAPs	0.3 0.2	2.6 2.1
08B	13 Carbide Electric Vacuum Furnaces, and Drying Oven Building B with Afterburner	PM HAPs	0.5 0.4	
09	Binder Burnoff Ovens with Afterburner	HAPs	0.2	0.7
10	Vacuum Solvent Dryers	HAPs Acetone	0.2 12.8	0.2 4.7
Facility		Any Single HAP	N/A	9.5

3. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Limit	Regulatory Citation
03, 04, 05, 08A and B, 09	5%	Reg.18.501

4. The permittee shall not cause or permit the emission of air contaminants, including odors or water vapor and including an air contaminant whose emission is not otherwise prohibited by Regulation 18, if the emission of the air contaminant constitutes air

pollution within the meaning of Ark. Code Ann. § 8-4-303. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

5. The permittee shall not conduct operations in such a manner as to unnecessarily cause air contaminants and other pollutants to become airborne. [Reg.18.901 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
6. The permittee shall use only pipeline quality natural gas as fuel for kilns SN-04 and 05, and dryer SN-03. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
7. The permittee shall not exceed the material throughput limits at the facility per consecutive 12-month period set forth in the following table. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Source	Limit
03	2,400,000 lbs
08A and B	1,200,000 lbs
04, 05	771 tons

8. The permittee shall maintain monthly records which demonstrate compliance with Specific Conditions 7. The permittee shall maintain a twelve month rolling total and each individual month's data in a spreadsheet, database, or other well-organized format on-site and make records available to Department personnel upon request. The permittee shall update the records by the fifteenth day of the month following the month to which the records pertain. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
9. The permittee shall maintain the operating temperature of the thermal oxidizers for SN-08A, SN-08B, and SN-09 to a minimum of 1,400 °F while the sources are in operation. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
10. The permittee shall maintain record the operating temperature of the afterburners associated with SN-08A, SN-08B, and SN-09 once per day. These records shall be kept on-site and made available to Department personnel upon request. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

CoorsTek Benton  
 Permit #: 1672-AR-12  
 AFIN: 63-00164

Section V: INSIGNIFICANT ACTIVITIES

The Department deems the following types of activities or emissions as insignificant on the basis of size, emission rate, production rate, or activity in accordance with Group A of the Insignificant Activities list found in Regulation 18 and Regulation 19 Appendix A. Group B insignificant activities may be listed but are not required to be listed in permits. Insignificant activity emission determinations rely upon the information submitted by the permittee in an application dated November 3, 2015. [Reg.19.408 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Description	Category
Alumina Lap and Polish (inorganic water-based slurry, wet process, no emissions)	A-13
Alumina Shake and Dye (liquid water-based dye, Magnaflux SKL-4C, no emissions)	A-13
Alumina Grinding (water-based wet process, no emissions)	A-13
Silicon Lap and Polish (inorganic water-based slurry, wet process, no emissions)	A-13
Solvent Cleaner/Degreaser (All-Purpose Simple Green Cleaner (ready-to-use) water-based wet process, no emissions, <1.2% VOC, 4 drums/yr)	A-13
Foam for packing part in nitrite area (two-part spray, Instapak "A" and Gflex "B", non-VOC, no emissions)	A-13
Welding Operations (for occasional small repairs, not a production process)	Category B
Baghouses (used for intermittent housekeeping <i>only</i> , not control equipment) (formerly SN-11, 12, 13, 14, 15, 16, 17, 18 and 19)	A-13
Alumina Wash Line (SN-09)	A-13
Vacuum Dryer Process	A-13
AMP Test Furnace	A-13
Test Kiln, electric, not in use	A-5

Section VI: GENERAL CONDITIONS

1. Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*). Any terms or conditions included in this permit that specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute.
2. This permit does not relieve the owner or operator of the equipment and/or the facility from compliance with all applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated under the Act. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
3. The permittee shall notify the Department in writing within thirty (30) days after each of the following events: commencement of construction, completion of construction, first operation of equipment and/or facility, and first attainment of the equipment and/or facility target production rate. [Reg.19.704 and/or Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
4. Construction or modification must commence within eighteen (18) months from the date of permit issuance. [Reg.19.410(B) and/or Reg.18.309(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
5. The permittee must keep records for five years to enable the Department to determine compliance with the terms of this permit such as hours of operation, throughput, upset conditions, and continuous monitoring data. The Department may use the records, at the discretion of the Department, to determine compliance with the conditions of the permit. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
6. A responsible official must certify any reports required by any condition contained in this permit and submit any reports to the Department at the address below. [Reg.19.705 and/or Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

Arkansas Department of Environmental Quality  
Office of Air Quality  
ATTN: Compliance Inspector Supervisor



CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

5301 Northshore Drive  
North Little Rock, AR 72118-5317

7. The permittee shall test any equipment scheduled for testing, unless stated in the Specific Conditions of this permit or by any federally regulated requirements, within the following time frames: (1) newly constructed or modified equipment within sixty (60) days of achieving the maximum production rate, but no later than 180 days after initial start up of the permitted source or (2) existing equipment already operating according to the time frames set forth by the Department. The permittee must notify the Department of the scheduled date of compliance testing at least fifteen (15) business days in advance of such test. The permittee must submit compliance test results to the Department within sixty (60) calendar days after the completion of testing. [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
8. The permittee shall provide: [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
  - a. Sampling ports adequate for applicable test methods;
  - b. Safe sampling platforms;
  - c. Safe access to sampling platforms; and
  - d. Utilities for sampling and testing equipment
9. The permittee shall operate equipment, control apparatus and emission monitoring equipment within their design limitations. The permittee shall maintain in good condition at all times equipment, control apparatus and emission monitoring equipment. [Reg.19.303 and/or Reg.18.1104 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
10. If the permittee exceeds an emission limit established by this permit, the permittee will be deemed in violation of said permit and will be subject to enforcement action. The Department may forego enforcement action for emissions exceeding any limits established by this permit provided the following requirements are met: [Reg.19.601 and/or Reg.18.1101 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
  - a. The permittee demonstrates to the satisfaction of the Department that the emissions resulted from an equipment malfunction or upset and are not the result of negligence or improper maintenance, and the permittee took all reasonable measures to immediately minimize or eliminate the excess emissions.
  - b. The permittee reports the occurrence or upset or breakdown of equipment (by telephone, facsimile, or overnight delivery) to the Department by the end of the next business day after the occurrence or the discovery of the occurrence.
  - c. The permittee must submit to the Department, within five business days after the occurrence or the discovery of the occurrence, a full, written report of such occurrence, including a statement of all known causes and of the scheduling and

nature of the actions to be taken to minimize or eliminate future occurrences, including, but not limited to, action to reduce the frequency of occurrence of such conditions, to minimize the amount by which said limits are exceeded, and to reduce the length of time for which said limits are exceeded. If the information is included in the initial report, the information need not be submitted again.

11. The permittee shall allow representatives of the Department upon the presentation of credentials: [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
  - a. To enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of this permit;
  - b. To have access to and copy any records required to be kept under the terms and conditions of this permit, or the Act;
  - c. To inspect any monitoring equipment or monitoring method required in this permit;
  - d. To sample any emission of pollutants; and
  - e. To perform an operation and maintenance inspection of the permitted source.
12. The Department issued this permit in reliance upon the statements and presentations made in the permit application. The Department has no responsibility for the adequacy or proper functioning of the equipment or control apparatus. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
13. The Department may revoke or modify this permit when, in the judgment of the Department, such revocation or modification is necessary to comply with the applicable provisions of the Arkansas Water and Air Pollution Control Act and the regulations promulgated the Arkansas Water and Air Pollution Control Act. [Reg.19.410(A) and/or Reg.18.309(A) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
14. This permit may be transferred. An applicant for a transfer must submit a written request for transfer of the permit on a form provided by the Department and submit the disclosure statement required by Arkansas Code Annotated §8-1-106 at least thirty (30) days in advance of the proposed transfer date. The permit will be automatically transferred to the new permittee unless the Department denies the request to transfer within thirty (30) days of the receipt of the disclosure statement. The Department may deny a transfer on the basis of the information revealed in the disclosure statement or other investigation or, deliberate falsification or omission of relevant information. [Reg.19.407(B) and/or Reg.18.307(B) and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

15. This permit shall be available for inspection on the premises where the control apparatus is located. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
16. This permit authorizes only those pollutant emitting activities addressed herein. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
17. This permit supersedes and voids all previously issued air permits for this facility. [Reg. 18 and/or Reg. 19 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
18. The permittee must pay all permit fees in accordance with the procedures established in Regulation 9. [Ark. Code Ann. § 8-1-105(c)]
19. The permittee may request in writing and at least 15 days in advance of the deadline, an extension to any testing, compliance or other dates in this permit. No such extensions are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion in the following circumstances:
  - a. Such an extension does not violate a federal requirement;
  - b. The permittee demonstrates the need for the extension; and
  - c. The permittee documents that all reasonable measures have been taken to meet the current deadline and documents reasons it cannot be met.

[Reg.18.314(A) and/or Reg.19.416(A), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]
20. The permittee may request in writing and at least 30 days in advance, temporary emissions and/or testing that would otherwise exceed an emission rate, throughput requirement, or other limit in this permit. No such activities are authorized until the permittee receives written Department approval. Any such emissions shall be included in the facility's total emissions and reported as such. The Department may grant such a request, at its discretion under the following conditions:
  - a. Such a request does not violate a federal requirement;
  - b. Such a request is temporary in nature;
  - c. Such a request will not result in a condition of air pollution;
  - d. The request contains such information necessary for the Department to evaluate the request, including but not limited to, quantification of such emissions and the date/time such emission will occur;
  - e. Such a request will result in increased emissions less than five tons of any individual criteria pollutant, one ton of any single HAP and 2.5 tons of total HAPs; and
  - f. The permittee maintains records of the dates and results of such temporary emissions/testing.

CoorsTek Benton  
Permit #: 1672-AR-12  
AFIN: 63-00164

[Reg.18.314(B) and/or Reg.19.416(B), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

21. The permittee may request in writing and at least 30 days in advance, an alternative to the specified monitoring in this permit. No such alternatives are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion under the following conditions:
  - a. The request does not violate a federal requirement;
  - b. The request provides an equivalent or greater degree of actual monitoring to the current requirements; and
  - c. Any such request, if approved, is incorporated in the next permit modification application by the permittee.

[Reg.18.314(C) and/or Reg.19.416(C), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

22. Any credible evidence based on sampling, monitoring, and reporting may be used to determine violations of applicable emission limitations. [Reg.18.1001, Reg.19.701, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

**CERTIFICATE OF SERVICE**

I, Cynthia Hook, hereby certify that a copy of this permit has been mailed by first class mail to CoorsTek Benton, 3315 Boone Road, Benton, AR, 72015, on this 2<sup>nd</sup> day of March, 2020.



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Cynthia Hook, ASIII, Office of Air Quality