

# FEB 1 3 2020

William (Rodney) Bland, Environmental Coordinator Bekaert Corporation One Bekaert Drive Rogers, AR 72756

Dear Mr. Bland:

The enclosed Permit No. 1053-AR-11 is your authority to construct, operate, and maintain the equipment and control apparatus as set forth in your application initially received on October 02, 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. 1053-AR-11 for the construction and operation of equipment at Bekaert Corporation, 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

#### **RESPONSE TO COMMENTS**

## BEKAERT CORPORATION PERMIT #1053-AR-11 AFIN: 04-00291

On November 18, 2019, 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, an Application for Administrative Amendment was submitted on January 16, 2020 by Rodney Bland 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:

The facility requested to change from fluidizing sand beds to water cooling baths on ISC 1 (SN-03, SN-04) and ISC 4 (SN-51, SN-52). The water bath for ISC 1 (SN-04) will be installed in March of 2020. The water bath for ISC 4 (SN-52) will be installed in March of 2021.

#### **Response to Comment #1:**

The change was approved in a letter dated January 24, 2020 and the changes have been added to the permit as requested.

# ADEQ MINOR SOURCE AIR PERMIT

Permit No. : 1053-AR-11

**IS ISSUED TO:** 

Bekaert Corporation One Bekaert Drive Rogers, AR 72756 Benton County AFIN: 04-00291

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 FEB 1 3 2020

Date

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# List of Acronyms and Abbreviations

Arkansas Code Annotated
ADEQ Facility Identification Number
Code of Federal Regulations
Carbon Monoxide
Hazardous Air Pollutant
Pound Per Hour
Number
Nitrogen Oxide
Particulate Matter
Particulate Matter Smaller Than Ten Microns
Sulfur Dioxide
Tons Per Year
Universal Transverse Mercator
Volatile Organic Compound

## Section I: FACILITY INFORMATION

PERMITTEE:	Bekaert Corporation
AFIN:	04-00291
PERMIT NUMBER:	1053-AR-11
FACILITY ADDRESS:	One Bekaert Drive Rogers, AR 72756
MAILING ADDRESS:	One Bekaert Drive Rogers, AR 72756
COUNTY:	Benton County
CONTACT NAME:	William (Rodney) Bland
CONTACT POSITION:	Environmental Coordinator
TELEPHONE NUMBER:	(479) 631-7661
REVIEWING ENGINEER:	Andrea Sandage
UTM North South (Y):	Zone 15: 4023941.03 m

UTM East West (X): Zone 15: 395213.34 m

## Section II: INTRODUCTION

### Summary of Permit Activity

Bekaert Corporation owns and operates a steel cord manufacturing facility located at One Bekaert Drive, Rogers, AR 72756. The steel cord is used in the production of steel belted radial tires. This de minimis application was submitted to remove SN-23 Rinsing Bath after HCl, ISC 2 and update SN-26 Copper Pyro-Phosphate Bath, ISC 2 by adding a bath addition that will allow for larger diameter wire. The addition will utilize the stack that was previously used for SN-23. There are no changes in emissions for the modification. The facility also submitted an administrative amendment to change from fluidizing sand beds to water cooling baths on ISC 1 (SN-03, SN-04) and ISC 4 (SN-51, SN-52). The water bath for ISC 1 (SN-04) will be installed in March of 2020. The water bath for ISC 4 (SN-52) will be installed in March of 2021.

Permitted emissions decreased by 0.4 tpy HCl, 0.8 tpy SO<sub>2</sub>, 0.8 tpy VOC, 0.8 tpy CO and 0.8 tpy NO<sub>x</sub>.

#### **Process Description**

Two processes are currently in use at this facility, the OLW process and the ISC process. These names are used for convenience and do not have any particular meaning.

The initial 'raw material' is comprised of two ton coils of high carbon steel wire rod. After the coils are unloaded from trucks, they are loaded on to large C-hooks. This is the very beginning of the processes. The coil 'pays' off ("is pulled off") of the C-hooks one loop at a time. The first process area is called OLW. The OLW line serves one purpose and that is to reduce the diameter of the wire rod from the diameter of a pencil down to the diameter of pencil lead for example. Since the wire is being pulled through dies, scale removal is critical at the first step. As the loops pay off, they are sent through a machine that basically 'bends' the wire in order to 'flake' off the hard and brittle scale that covers the ductile wire rod. After the scale is removed, it is cleaned with diluted HCl and/or water rinse bath (scrubbers - SN-69, 70, 71, 90, 91, 92 and 93), coated with a lubricant carrier and then fed into the CAZ or diameter reducing machine. These series of steps are completed in a continuous fashion through a process line that is in a straight line set-up. The lubricant carrier coated wire enters a machine comprised of a series of die and soap chambers. As the wire passes through each pass, its diameter is reduced to smaller diameters (SN-67, 68, 88, and 89). When the wire leaves the machine it is at the pencil sized diameter and is collected on large spools thus ending the first of four major process steps.

From the CAZ / dry-draw area, the spools are taken to the ISC area. These process lines are 'straight and continuous' as the OLW lines are; however, the ISC lines are much longer, serve different process purposes, and are more involved. The ISC lines serve to do two things mainly. First, heat treat and correct damaged wire structures created from diameter reductions in the CAZ area. Second, plate a brass layer on the wire before the next step. The spools from the OLW area pay-off and are fed into natural gas-fired furnaces (SN-01, 02, 17-18, 33-34, 49-50

and 73) where a certain temperature is reached to dissolve the damaged internal structure of the wire. From here the wire enters machines (SN-03-05, 19-21, 35-37, 51-53 and 74-75) that quench / cool the wire with water to 're-establish or fix' the again corrected structure. Hot temperatures and oxygen (air) create hard brittle scales that are not good for electroplating; therefore, the next step is designed to remove the hard scales (SN-06-09, 22-25, 38-41, 54-57, and 76-79). This is done by chemical pickling on a continuous basis. At this point the wire is ready for plating. The wire is plated with copper (SN-10-11, 26-27, 42-43, 58-59, and 80-81), then zinc (SN-12, 28, 44, 60, and 82). The wire is rinsed with water after each of the processing steps. Once plated, the wire is again heated to positively affect structures, collected on spools and shipped to the next major processing area. The ISC line is the only process in which plating is involved. (OTHER: SN-13-16, 29-32, 45-48, 61-64 and 83-86).

From the ISC area, the wire is transferred to the Cord production area. The Cord area is comprised of a large number of independent drawing machines similar to the CAZ's mentioned earlier. There are major differences however. The NDW's, related do not have support equipment such as descalers, C-hooks, etc. They are stand-alone machines. These stand-alone machines use wet lubricant as opposed to dry soaps used in the CAZ area. The wet draw machines reduce the wire from the size of pencil lead down to the size of a hair. The hair sized wire is collected on 'much' smaller spools as it comes out of the machines.

From the cord wet draw area, the wire is moved to the bunching area. Here the small spools of hair-sized wire are loaded into cabling machines, a large number of stand-alone independent machines. The spools of filaments are paid off into the machine on one end. As the wires / filaments feed into the machine, the internal components of the machine rotate to 'twist / cable' the individual filaments into different combined filament configurations. This cabled wire is the final product that is sold as a major component of steel belted radial tires, hose wire, related.

## 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

## 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	Emissi	on Rates		
Fonutant	lb/hr	tpy		
PM	6.6	26.4		
PM <sub>10</sub>	6.6	26.4		
SO <sub>2</sub>	2.0	8.0		
VOC	2.0	8.0		
СО	2.0	8.0		
NO <sub>x</sub>	2.9	12.5		
Cu	0.5	2.0		
ZnSO <sub>4</sub>	0.5	2.0		
HCl	1.6	6.4		

### Section III: PERMIT HISTORY

Permit #1053-A was issued to Bekaert Corporation on June 4, 1990 for the initial construction of the facility. The permit limits for the original facility were:  $PM/PM_{10}$  - 4.2 tpy;  $NO_X$  - 49.45 tpy; and HCl - 1.58 tpy.

Permit #1053-AR-1 was issued to Bekaert Corporation on November 30, 1992 for a small facility expansion. Permit Limits were  $PM/PM_{10}$  - 0.95 tpy; CO -1.08 tpy; NO<sub>X</sub> - 5.31 tpy; and HCl - 1.2 tpy.

Permit #1053-AR-2 was issued to Bekaert Corporation in 1994. Another small facility expansion occurred on this permit. Permit Limits were  $PM/PM_{10}$  - 20.0 tpy;  $SO_2$  - 8.8 tpy; VOC - 8.8 tpy; CO - 8.8 tpy; NO<sub>X</sub> - 13.8 tpy; Cu - 1.6 tpy;  $ZnSO_4$  - 1.6 tpy; and HCl - 4.4 tpy.

Permit #1053-AR-3 was issued to Bekaert Corporation on November 12, 1996. A small plant expansion and modification to the water baths on the ISC line 3 occurred on this permit modification. Permit Limits were  $PM/PM_{10}$  - 26.4 tpy;  $SO_2$  - 9.6 tpy; VOC - 9.6 tpy; CO - 9.6 tpy;  $NO_x$  - 15.1 tpy; Cu - 2.0 tpy;  $ZnSO_4$  - 2.0 tpy; and HCl - 5.6 tpy.

Permit #1053-AR-4 was issued to Bekaert Corporation on May 11, 1998. The type of control device used at SN-90 was changed to allow either a packed tower or a plate tower on this permit modification. Permit Limits were  $PM/PM_{10}$  - 26.4 tpy; SO<sub>2</sub> - 9.6 tpy; VOC - 9.6 tpy; CO - 9.6 tpy; NO<sub>x</sub> - 15.1 tpy; Cu - 2.0 tpy; ZnSO<sub>4</sub> - 2.0 tpy; and HCl - 5.6 tpy.

Permit #1053-AR-5 was issued to Bekaert Steel Corporation on December 10, 1999. The type of control device used at SN-20 was changed from a sand bed quench unit to a water quench unit on this permit modification. Permit Limits were  $PM/PM_{10}$  - 26.4 tpy; SO<sub>2</sub> - 8.8 tpy; VOC - 8.8 tpy; CO - 8.8 tpy; NO<sub>X</sub> - 14.3 tpy; Cu - 2.0 tpy; ZnSO<sub>4</sub> - 2.0 tpy; and HCl - 5.6 tpy.

Permit #1053-AR-6 was issued to Bekaert Steel Corporation on June 21, 2001. The facility added dilute hydrochloric acid pickling baths for removal of oxidation products prior to the drawing process on the remaining two OLW lines. Permit Limits were  $PM/PM_{10}$  - 26.4 tpy; SO<sub>2</sub> - 8.8 tpy; VOC - 8.8 tpy; CO - 8.8 tpy; NO<sub>X</sub> - 14.3 tpy; Cu - 2.0 tpy; ZnSO<sub>4</sub> - 2.0 tpy; and HCl - 6.0 tpy.

Permit #1053-AR-7 was issued on November 17, 2004. The facility proposed adding a new (tenth) dilute hydrochloric acid bath. The new bath was added to a scrubber which controlled only one other bath. There was no change in emission limits.

Permit #1053-AR-7 was amended on March 31, 2005. The spool touch-up painting process has been added to the Insignificant Activities List. There were no changes in emission limits.

Permit #1053-AR-7 was amended a second time on May 19, 2008. The facility has 9 dilute hydrochloric acid (HCl) baths, which are used to remove residual oxides from the wire rod prior to processing. The facility proposes to add a  $10^{th}$  dilute HCl bath. There were 5 scrubbers listed

in the permit which control the emissions from these acid baths. Four of the baths controlled 2 acid baths and the other controls only one bath. The new bath was added to the scrubber which controlled only one bath. There were no changes in emission limits.

Permit #1053-AR-8 was issued to Bekaert Steel Corporation on July 12, 2011. This permitting action is necessary to:

- 1. Install four additional OLW wire drawing lines, SN-92 (Lines 11 & 12) and SN-93 (Lines 13 & 14);
- 2. Add scrubber parameter monitoring for SN-92 and 93, Specific Condition (SC) #8;
- 3. Add scrubber parameter recordkeeping for SN-92 and 93, SC #9;
- 4. Correct math error on NO<sub>X</sub> emission summary; and
- 5. Add General Conditions #19 through #21.

Total permitted annual emission rate changes associated with this modification include: 1.0 tons per year (tpy)  $NO_X$  and 0.8 tpy Hydrogen Chloride (HCl).

Permit #1053-AR-9 was issued on August 26, 2013. This permitting action was necessary to: change the facility name and add a 0.3999 MMBtu/hr natural gas-fired water heater to the Insignificant Activities list. There were no changes in emissions.

Permit #1053-AR-10 was issued on November 17, 2015. This permitting action was necessary to add one 18% hydrochloric acid tank and two 36% hydrochloric acid tanks to the insignificant activities list. The permitted emission rate limits did not change with this administrative amendment.

## 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
01	Natural Gas Furnace, ISC 1	PM <sub>10</sub> SO <sub>2</sub> VOC CO	0.1 0.1 0.1 0.1	0.4 0.4 0.4 0.4
02	Furnace Heat Exchanger Exhaust, ISC 1	NO <sub>x</sub>	0.2 Inted for in S	0.9
	C ·			
03	Water Cooling Exchanger, ISC 1	Accou	inted for in S	SN-04
04	Cooling Bath, ISC 1	$PM_{10}$	0.1	0.4
05	Cooling Bath, ISC 1	$PM_{10}$	0.1	0.4
08	Rinse Separator, ISC 1	PM <sub>10</sub>	0.1	0.4
09	Ultrasonic Separator, ISC 1	PM <sub>10</sub>	0.1	0.4
10	Copper Pyro-Phosphate Bath, ISC 1	PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>X</sub>	0.1 0.1 0.1 0.1 0.1	0.4 0.4 0.4 0.4 0.4
11	Post Copper Pyro-Phosphate Bath, ISC 1	PM <sub>10</sub>	0.1	0.4
13	Hot Rinse, ISC 1	PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>X</sub>	0.1 0.1 0.1 0.1 0.1	0.4 0.4 0.4 0.4 0.4
14	Cooling Bath, ISC 1	PM <sub>10</sub>	0.1	0.4
15	Rinse Bath, ISC 1	PM <sub>10</sub>	0.1	0.4
16	Separator after Hot Rinse, ISC 1	PM <sub>10</sub>	0.1	0.4
17	Natural Gas Furnace, ISC 2	PM <sub>10</sub> SO <sub>2</sub> VOC CO	0.1 0.1 0.1 0.1	0.4 0.4 0.4 0.4

SN	Description	Pollutant	lb/hr	tpy	
		NO <sub>X</sub>	0.2	0.9	
18	Furnace Heat Exchanger Exhaust, ISC 2	Accou	Accounted for in SN-17		
19	Water Cooling Exchanger, ISC 2	Accou	Accounted for in SN-20		
20	Cooling Bath, ISC 2	PM <sub>10</sub>	0.1	0.4	
21	Cooling Bath, ISC 2	PM <sub>10</sub>	0.1	0.4	
24	Rinse Separator, ISC 2	PM <sub>10</sub>	0.1	0.4	
25	Ultrasonic Separator, ISC 2	PM <sub>10</sub>	0.1	0.4	
26	Copper Pyro-Phosphate Bath, ISC 2 with 2019 bath addition	PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>X</sub>	0.1 0.1 0.1 0.1 0.1	$\begin{array}{c} 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \end{array}$	
27	Post Copper Pyro-Phosphate Bath, ISC 2	PM <sub>10</sub>	0.1	0.4	
29	Hot Rinse, ISC 2	PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>X</sub>	$\begin{array}{c} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{array}$	$\begin{array}{c} 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \\ 0.4 \end{array}$	
30	Cooling Bath, ISC 2	PM <sub>10</sub>	0.1	0.4	
31	Rinse Bath, ISC 2	PM <sub>10</sub>	0.1	0.4	
32	Separator after Hot Rinse, ISC 2	PM <sub>10</sub>	0.1	0.4	
33	Natural Gas Furnace, ISC 3	PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>X</sub>	0.1 0.1 0.1 0.1 0.2	0.4 0.4 0.4 0.4 0.9	
34	Furnace Heat Exchanger Exhaust, ISC 3	Accou	unted for in	SN-33	
35	Water Cooling Exchanger, ISC 3	Accou	Accounted for in SN-36		
36	Cooling Bath, ISC 3	PM <sub>10</sub>	0.1	0.4	
37	Cooling Bath, ISC 3	PM <sub>10</sub>	0.1	0.4	
40	Rinse Separator, ISC 3	PM <sub>10</sub>	0.1	0.4	
41	Ultrasonic Separator, ISC 3	PM <sub>10</sub>	0.1	0.4	

SN	Description	Pollutant	lb/hr	tpy
		PM <sub>10</sub>	0.1	0.4
10	Copper Pyro-Phosphate Bath,	$SO_2$	0.1	0.4
42	ISC 3	VOC	0.1	0.4
		CO	0.1 0.1	0.4 0.4
		NO <sub>X</sub>		
43	Post Copper Pyro-Phosphate Bath, ISC 3	PM <sub>10</sub>	0.1	0.4
		$PM_{10}$	0.1	0.4
		$SO_2$	0.1	0.4
45	Hot Rinse, ISC 3	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.1	0.4
46	Cooling Bath, ISC 3	$PM_{10}$	0.1	0.4
47	Rinse Bath, ISC 3	PM <sub>10</sub>	0.1	0.4
48	Separator after Hot Rinse, ISC 3	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
49	Natural Gas Furnace, ISC 4	VOC	0.1	0.4
		CO	0.1	0.4
		$NO_X$	0.2	0.9
50	Furnace Heat Exchanger Exhaust, ISC 4	Acco	unted for in S	SN-49
51	Water Cooling Exchanger, ISC 4	Acco	unted for in S	SN-52
52	Cooling Bath, ISC 4	PM <sub>10</sub>	0.1	0.4
53	Cooling Bath, ISC 4	PM <sub>10</sub>	0.1	0.4
56	Rinse Separator, ISC 4	PM <sub>10</sub>	0.1	0.4
57	Ultrasonic Separator, ISC 4	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
58	Copper Pyro-Phosphate Bath, ISC 4	VOC	0.1	0.4
	-	CO	0.1	0.4
		NO <sub>X</sub>	0.1	0.4
59	Post Copper Pyro-Phosphate Bath, ISC 4	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
61	Hot Rinse after Zine Sulfate ISC 4	SO <sub>2</sub>	0.1	0.4
61	Hot Rinse after Zinc Sulfate, ISC 4	VOC	0.1	0.4
		CO	0.1	0.4

SN	Description	Pollutant	lb/hr	tpy
		NO <sub>X</sub>	0.1	0.4
62	Cooling Bath, ISC 4	PM <sub>10</sub>	0.1	0.4
63	Rinse Bath, ISC 4	PM <sub>10</sub>	0.1	0.4
64	Separator after Hot Rinse, ISC 4	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
65	Boiler, ISC Lines 1 & 2	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.1	0.4
		$PM_{10}$	0.1	0.4
		$SO_2$	0.1	0.4
66	Boiler, ISC Lines 3 & 4	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.2	0.9
		$PM_{10}$	0.1	0.4
	2 Boilers, CAZ Area	SO <sub>2</sub>	0.1	0.4
67		VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.2	0.9
68	Dust Collector, CAZ Machines	PM <sub>10</sub>	0.4	1.6
72	Water "Quench" Cooling Bath, ISC 3	PM <sub>10</sub>	0.1	0.4
		$PM_{10}$	0.1	0.4
		SO <sub>2</sub>	0.1	0.4
73	Natural Gas Furnace, ISC 5	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.2	0.9
74	Water "Quench" Cooling Bath, ISC 5	PM <sub>10</sub>	0.1	0.4
75	Cooling Bath, ISC 5	PM <sub>10</sub>	0.1	0.4
78	Rinse Separator, ISC 5	PM <sub>10</sub>	0.1	0.4
79	Ultrasonic Separator, ISC 5	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
80	Copper Pyro-Phosphate Bath, ISC 5	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.1	0.4

SN	Description	Pollutant	lb/hr	tpy
81	Post Copper Pyro-Phosphate Bath, ISC 5	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
83	Hot Rinse, ISC 5	VOC	0.1	0.4
		CO	0.1	0.4
		NOX	0.1	0.4
84	Cooling Bath, ISC 5	PM <sub>10</sub>	0.1	0.4
85	Rinse Bath, ISC 5	PM <sub>10</sub>	0.1	0.4
86	Separator after Hot Rinse, ISC 5	PM <sub>10</sub>	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
87	Boiler, ISC 5	VOC	0.1	0.4
		CO	0.1	0.4
		NO <sub>X</sub>	0.2	0.9
		PM <sub>10</sub>	0.1	0.4
		$SO_2$	0.1	0.4
88	Boiler, CAZ Area	VOC	0.1	0.4
		CO	0.1	0.4
		NOX	0.2	0.9
89	Filtrex Dust Collector, OLW Lines 8, 9, & 10	PM <sub>10</sub>	0.1	0.4

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]

SN	Description	Pollutant	lb/hr	tpy
01	Natural Gas Furnace, ISC 1	PM	0.1	0.4
02	Furnace Heat Exchanger Exhaust, ISC 1	Acco	ounted for in S	SN-01
03	Water Cooling Exchanger, ISC 1	Accounted for in SN-04		
04	Cooling Bath, ISC 1	PM	0.1	0.4
05	Cooling Bath, ISC 1	PM	0.1	0.4
06	Head Discharge for HCL Pickling Baths, ISC 1	HCl	0.1	0.4
07	Rinsing Bath after HCL ISC 1	HCl	0.1	0.4
08	Rinse Separator, ISC 1	PM	0.1	0.4

SN	Description	Pollutant	lb/hr	tpy
09	Ultrasonic Separator, ISC 1	PM	0.1	0.4
10	Copper Pyro-Phosphate Bath, ISC 1	PM	0.1	0.4
11	Post Copper Pyro-Phosphate Bath, ISC 1	PM Cu	0.1 0.1	0.4 0.4
12	Post Zinc Sulphate Rinse, ISC 1	ZnSO <sub>4</sub>	0.1	0.4
13	Hot Rinse, ISC 1	PM	0.1	0.4
14	Cooling Bath, ISC 1	PM	0.1	0.4
15	Rinse Bath, ISC 1	PM	0.1	0.4
16	Separator after Hot Rinse, ISC 1	PM	0.1	0.4
17	Natural Gas Furnace, ISC 2	PM	0.1	0.4
18	Furnace Heat Exchanger Exhaust, ISC 2	Acco	unted for in S	SN-17
19	Water Cooling Exchanger, ISC 2	Acco	unted for in S	SN-20
20	Cooling Bath, ISC 2	PM	0.1	0.4
21	Cooling Bath, ISC 2	PM	0.1	0.4
22	Head Discharge for HCL Pickling Baths, ISC 2	HCl	0.1	0.4
23	Rinsing Bath after HCL, ISC 2	I	Removed 201	9
24	Rinse Separator, ISC 2	PM	0.1	0.4
25	Ultrasonic Separator, ISC 2	PM	0.1	0.4
26	Copper Pyro-Phosphate Bath, ISC 2 with 2019 bath addition	PM Cu	0.1 0.1	0.4 0.4
27	Post Copper Pyro-Phosphate Bath, ISC 2	PM	0.1	0.4
28	Post Zinc Sulphate Rinse, ISC 2	ZnSO <sub>4</sub>	0.1	0.4
29	Hot Rinse, ISC 2	PM	0.1	0.4
30	Cooling Bath, ISC 2	PM	0.1	0.4
31	Rinse Bath, ISC 2	PM	0.1	0.4
32	Separator after Hot Rinse, ISC 2	PM	0.1	0.4
33	Natural Gas Furnace, ISC 3	PM	0.1	0.4
34	Furnace Heat Exchanger Exhaust, ISC 3	Acco	unted for in S	SN-33

SN	Description	Pollutant	lb/hr	tpy
35	Water Cooling Exchanger, ISC 3	Accounted for in SN-36		SN-36
36	Cooling Bath, ISC 3 PM		0.1	0.4
37	Cooling Bath, ISC 3	PM	0.1	0.4
38	Head Discharge for HCL Pickling Baths, ISC 3	HCl	0.1	0.4
39	Rinsing Bath after HCL, ISC 3	HCl	0.1	0.4
40	Rinse Separator, ISC 3	PM	0.1	0.4
41	Ultrasonic Separator, ISC 3	PM	0.1	0.4
42	Copper Pyro-Phosphate Bath, ISC 3	PM	0.1	0.4
		Cu	0.1	0.4
43	Post Copper Pyro-Phosphate Bath, ISC 3	PM	0.1	0.4
44	Post Zinc Sulphate Rinse, ISC 3 ZnS		0.1	0.4
45	Hot Rinse, ISC 3 PM		0.1	0.4
46	Cooling Bath, ISC 3	PM	0.1	0.4
47	Rinse Bath, ISC 3	PM	0.1	0.4
48	Separator after Hot Rinse, ISC 3	PM	0.1	0.4
49	Natural Gas Furnace, ISC 4 PM		0.1	0.4
50	Furnace Heat Exchanger Exhaust, ISC 4	Accounted for in SN-49		
51	Water Cooling Exchanger, ISC 4	Accounted for in SN-52		
52	Cooling Bath, ISC 4	PM	0.1	0.4
53	Cooling Bath, ISC 4	PM	0.1	0.4
54	Head Discharge for HCL Pickling Baths, ISC 3	HCl	0.1	0.4
55	Rinsing Bath after HCL, ISC 3	HCl	0.1	0.4
56	Rinse Separator, ISC 4	PM	0.1	0.4
57	Ultrasonic Separator, ISC 4	PM	0.1	0.4
58	Copper Pyro-Phosphate Bath, ISC 4	PM Cu	0.1 0.1	0.4 0.4
59	Post Copper Pyro-Phosphate Bath, ISC 4	PM	0.1	0.4
60	Post Zinc Sulphate Rinse, ISC 4	ZnSO <sub>4</sub>	0.1	0.4

SN	Description	Pollutant	lb/hr	tpy
61	Hot Rinse after Zinc Sulfate, ISC 4	PM	0.1	0.4
62	Cooling Bath, ISC 4	PM	0.1	0.4
63	Rinse Bath, ISC 4	PM	0.1	0.4
64	Separator after Hot Rinse, ISC 4	PM	0.1	0.4
65	Boiler, ISC Lines 1 & 2	PM	0.1	0.4
66	Boiler, ISC Lines 3 & 4	PM	0.1	0.4
67	2 Boilers, CAZ Area	PM	0.1	0.4
68	Dust Collector, CAZ Machines	PM	0.4	1.6
69	Head Discharge for HCL Pickling Baths, OLW 3 & 4 (with Scrubber)HCl0.1		0.1	0.4
70	Head Discharge for HCL Pickling Baths, OLW 7 & 8 (with Scrubber) HCl		0.1	0.4
71	Head Discharge for HCL Pickling Baths, OLW 5 & 6 (with Scrubber) HC		0.1	0.4
72	Water "Quench" Cooling Bath, ISC 3	PM	0.1	0.4
73	Natural Gas Furnace, ISC 5	PM	0.1	0.4
74	Water "Quench" Cooling Bath, ISC 5	PM	0.1	0.4
75	Cooling Bath, ISC 5	PM	0.1	0.4
76	Head Discharge for HCL Pickling Baths, ISC 5	HCl	0.1	0.4
77	Rinsing Bath after HCL, ISC 5	HCl	0.1	0.4
78	Rinse Separator, ISC 5	PM	0.1	0.4
79	Ultrasonic Separator, ISC 5	PM	0.1	0.4
80	Copper Pyro-Phosphate Bath, ISC 5	PM Cu	0.1 0.1	0.4 0.4
81	Post Copper Pyro-Phosphate Bath, ISC 5	PM	0.1	0.4
82	Post Zinc Sulphate Rinse, ISC 4	ZnSO <sub>4</sub>	0.1	0.4
83	Hot Rinse, ISC 5	PM	0.1	0.4
84	Cooling Bath, ISC 5	PM	0.1	0.4
85	Rinse Bath, ISC 5	PM	0.1	0.4
86	Separator after Hot Rinse, ISC 5	PM	0.1	0.4

SN	Description	Pollutant	lb/hr	tpy
87	Boiler, ISC 5	PM	0.1	0.4
88	Boiler, CAZ Area PM		0.1	0.4
89	Filtrex Dust Collector, OLW Lines 8, 9, & 10	PM	0.1	0.4
90	HCl Baths, OLW Lines 1 & 2 (with Scrubber)	HCl	0.1	0.4
91	HCl Baths, OLW Lines 9 & 10 (with Scrubber)	HCl	0.1	0.4
92	HCl Baths, OLW Lines 11 & 12 (with Plate Scrubber)	HCl	0.1	0.4
93	HCl Baths, OLW Lines 13 & 14 (with Plate Scrubber)	HCl	0.1	0.4

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
01, 06, 07, 13, 17, 22, 26, 29, 33, 38, 39, 42, 45, 49, 54, 55, 58, 61, 65, 66, 67, 68, 69, 70, 71, 72, 73, 76, 77, 80, 83, 87, 88, 89, 90, 91, 92, 93	5%	Reg.18.501
04, 05, 08, 09, 10, 11, 12, 14, 15, 16, 20, 21, 24, 25, 27, 28, 30, 31, 32, 36, 37, 40, 41, 43, 44, 46, 47, 48, 52, 53, 56, 57, 59, 60, 62, 63, 64, 74, 75, 78, 79, 81, 82, 84, 85, 86	0%	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 in the process equipment and the boilers. Emissions from the natural gas-fired equipment and the boilers have been calculated at full load for continuous operation and no recordkeeping is required. [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 may operate the facility for 8,760 hours per rolling 12 month period. As the emissions are all based upon the facility running at capacity full time, no hourly operating records are required to be kept. [Reg.19.705 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 8. The SN-92 and SN-93 plate scrubbers shall be kept in good working condition at all times, shall operate at all times that their respective HCl pickling lines are operating and shall be monitored to meet the following conditions: [Reg.18.1104 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]

SN	Control Equipment	Parameter	Units	Minimum Operating Limits
	QZW Plate (5) Scrubber	Pressure Drop across Pads	Millimeters (mm) of H <sub>2</sub> O	50 - 110 mm (1.97 - 4.33 in) of H <sub>2</sub> O
92 & 93		Pressure Drop across Stack	Millimeters (mm) of H <sub>2</sub> O	100 – 350 mm (3.94 – 13.78 in) of H <sub>2</sub> O
		Scrubbing Liquid Flow	gallons per minute	0.26 gal/min

- a. The permittee shall use a manometer or equivalent measuring device to measure the pressure drop of the scrubbing liquid in the scrubber across the pads and stack once per day.
- b. The permittee shall measure the scrubber liquid flow rate once per day.
- 9. The permittee shall maintain records of the liquid pressure drop and flow rate to demonstrate compliance with Specific Condition #8. These records shall be maintained on-site and made available to Department personnel upon request. [Reg.18.1004 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

## 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 March 31, 2005, July 12, 2013 and October 15, 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
Natural Gas-fired Water Heater, 0.3999 MMBtu/hr in Lube Room	A-1
Spool Touch-up Painting Process	A-13
One 13,536 Gallon 18% HCl Tank One 13,536 Gallon 36% HCl Tank One 3,008 Gallon 36% HCl Tank	A-13

## Section VI: GENERAL CONDITIONS

- 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

> 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]

- 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.

[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

Bekaert Corporation, One Bekaert Drive, Rogers, AR, 72756, on this 13th day of

hebruary, 2020.

Cynthia Hook, ASIII, Office of Air Quality