From:	Air.Pollution Control
To:	APC Permitting
Subject:	FW: Startup Certification and Application for Operating Permit for Source #14 & Source #16
Date:	Wednesday, November 29, 2023 1:58:49 PM
Attachments:	ABB Operating Permit Application for Conversion of Construction Permit #981278 for Sources #14 & #16.pdf Startup Certication Source #14 November 13 2023.pdf Startup Certication Source #16 November 13 2023.pdf

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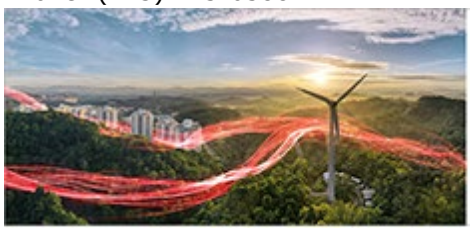
From: Lisa A. Woods-Neisler <lisa.neisler@us.abb.com>
Sent: Wednesday, November 29, 2023 1:16 PM
To: Air.Pollution Control <Air.Pollution.Control@tn.gov>; APC ChattEFO <APC.ChattEFO@tn.gov>
Cc: Shane S. Sparks <shane.sparks@us.abb.com>; Tyler Nash <tyler.nash@us.abb.com>
Subject: [EXTERNAL] Startup Certification and Application for Operating Permit for Source #14 & Source #16

To Whom it May Concern,

Please find the attached operating permit application for Source #14 and Source #16 for ABB Installation Products Inc. 260 Dennis Street Athens, TN 37303. The operating permit is to covert the current construction permit #981278.
Also, attached is the completed startup certification for Source #14 and Source #16. Please feel free to reach out with any questions.

Thank you,

Lisa Neisler
Environmental Engineer
ELIP
Athens, TN
Phone: (423) 745-6588



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION

Type or print and submit. Attach appropriate source description forms.

SITE INFORMATION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #000909235

2. Site name (if different from legal name)

3. Is a construction permit application fee being submitted? Yes ☐ No ☑
(see instructions for appropriate fee to submit)

4. Site address (St./Rd./Hwy.)			County name
260 DENNIS STREET			MCMINN
City		Zip code	**5.** NAICS or SIC code
ATHENS		37303	335932
6. Site location (in lat. /long.)	Latitude 35.457389		Longitude 84.604261

CONTACT INFORMATION (RESPONSIBLE PERSON)

7. Responsible person/Authorized contact			Phone number with area code
SHANE SPARKS			423-745-6588
Mailing address (St./Rd./Hwy.)			Fax number with area code
260 DENNIS STREET			423-745-9545
City	State	Zip code	Email address
ATHENS	TN	37303	SHANE.SPARKS@US.ABB.COM

CONTACT INFORMATION (TECHNICAL)

8. Principal technical contact			Phone number with area code
LISA NEISLER			423-745-6588
Mailing address (St./Rd./Hwy.)			Fax number with area code
260 DENNIS STREET			423-745-9545
City	State	Zip code	Email address
ATHENS	TN	37303	LISA.NEISLER@US.ABB.COM

CONTACT INFORMATION (BILLING)

9. Billing contact			Phone number with area code
ACCOUNTS PAYABLE			423-745-6588
Mailing address (St./Rd./Hwy.)			Fax number with area code
260 DENNIS STREET			423-745-6588
City	State	Zip code	Email address
ATHENS	TN	37303	

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details)

THIS APPLICATION IS TO CONVERT OUR CURRENT CONSTRUCTION PERMIT (#981278) FOR SOURCES #14 AND #16 TO AN OPERATING PERMIT. THE FIRST DAY OF OPERATION WAS 11-13-2023.

11. Is the air contaminant source(s) in a nonattainment area? If "Yes", then minor source BACT must be addressed. Yes ☐ No ☑

12. Normal operation:	Hours/Day 24	Days/Week 7	Weeks/Year 52	Days/Year 365
13. Percent annual throughput	Dec. – Feb. 25	March – May 25	June – August 25	Sept. – Nov. 25

TYPE OF PERMIT REQUESTED (check appropriate box)

14. Operating permit ☑	Date construction started 11-9-2023	Date completed 11-10-2023	Date of ownership change (if applicable)
	Last permit number(s) 981278	Emission Source Reference Number(s) 14 & 16	
Construction permit ☐	Last permit number(s)	Emission Source Reference Number(s)	

If you chose Construction permit above, then choose either New Construction, Modification, or Location Transfer

New Construction ☐	Starting date	Completion date
Modification ☐	Date modification started or will start	Date completed or will complete
Location Transfer ☐	Transfer date	Address of last location

15. Describe changes that have been made to this equipment or operation(s) since the last construction or operating permit application:

ACID PICKLE TANKS WERE CONVERTED FROM SULFURIC ACID TO HYDROCHLORIC ACID WITH THE ABILITY TO SWITCH BACK TO SULFURIC ACID AT ANY POINT IN TIME.

16. Comments

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17) Signature (application must be signed before it will be processed)		**Date**
Shane Sparks		11-28-2023
Signer's name (type or print)	**Title**	**Phone number with area code**
SHANE SPARKS	GROUP MANAGER	423-745-6588

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
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Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION

Type or print and submit for each stack or air contaminant source. Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #000909235

2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1)
#17161

3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1)
#1

4. Brief description of air contaminant source (Attach a diagram if appropriate):
JESSUP PLATER ELECTROPLATING MACHINE, NON CYANIDE ALKALINE ZINC PLATING WITH TRIVALENT CHROMIUM CONVERSION COATING - CONSTRUCTION IS TO REPLACE SULFURIC ACID WITH HYDROCHLORIC IN CLEANING TANK

5. Emission point location	Latitude	Longitude	**6. Distance to nearest property line (Ft.)**
	35.457389	84.604261	125

STACK AND EMISSION DATA

7. Stack or emission point data: →	Height above grade (Ft.)	Diameter (Ft.)	Temperature (°F)	% of time over 125°F	Direction of exit (Up, down or horizontal)
	39	4.67	AMBIENT	0	UP

Data at exit conditions: →	Flow (actual $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	51460	52.63	6.2	80

Data at standard conditions: →	Flow (Dry std. $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	51460	52.63	3.9	50

8. Monitoring device and recording instrument (check all that apply):

Opacity monitor	SO_2 monitor	NO_X monitor	Strip chart	Electronic data logger	Other (specify in comments)	No monitor (none)
☐	☐	☐	☐	☐	☑	☐

9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
WET-BED PACKED FUME SCRUBBER WITH FLOW RATE MONITORING

10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concen-tration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Effi-ciency %
Particulate matter (PM)		0.00835	**	0.0366				
Sulfur dioxide (SO_2)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO_X)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO_2 equivalents)								
Hazardous air pollutant (specify) HCL	6.04E-4	0.2046		0.00265	0.8961	6(see application)	001	99
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								
Other (specify)								
Other (specify)								

11. Comments

SIGNATURE

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Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

12. Signature		**Date**
Shane Sparks		7-28-2023
Signer's name (type or print)	**Title**	**Phone number with area code**
SHANE SPARKS	GROUP MANAGER	423-745-6588

* Refer to the tables in the instructions for estimation method and control device codes.

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft^3 (70^0F), Wood fired boilers - Grains/Dry Standard Ft^3 (70^0F), all other boilers – Lbs. /Million BTU heat input.

*** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input

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NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION

Type or print and submit for each stack or air contaminant source. Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #000909235

2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1)
#05081

3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1)
#1

4. Brief description of air contaminant source (Attach a diagram if appropriate):
JESSUP PLATER ELECTROPLATING MACHINE, NON CYANIDE ALKALINE ZINC PLATING WITH TRIVALENT CHROMIUM CONVERSION COATING - CONSTRUCTION IS TO REPLACE SULFURIC ACID WITH HYDROCHLORIC IN CLEANING TANK

5. Emission point location	Latitude	Longitude	**6. Distance to nearest property line (Ft.)**
	35.457389	84.604261	125

STACK AND EMISSION DATA

7. Stack or emission point data: →	Height above grade (Ft.)	Diameter (Ft.)	Temperature (°F)	% of time over 125°F	Direction of exit (Up, down or horizontal)
	39	4	AMBIENT	0	UP

Data at exit conditions: →	Flow (actual $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	76255	52.63	6.2	80

Data at standard conditions: →	Flow (Dry std. $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	76255	52.63	3.9	50

8. Monitoring device and recording instrument (check all that apply):

Opacity monitor	SO_2 monitor	NO_X monitor	Strip chart	Electronic data logger	Other (specify in comments)	No monitor (none)
☐	☐	☐	☐	☐	☑	☐

9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
WET-BED PACKED FUME SCRUBBER WITH FLOW RATE MONITORING

10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concen-tration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Effi-ciency %
Particulate matter (PM)		0.00835	**	0.0366				
Sulfur dioxide (SO_2)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO_X)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO_2 equivalents)								
Hazardous air pollutant (specify) HCL	6.04E-4	0.2046		0.00265	0.8961	6(see application)	001	99
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								
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11. Comments

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12. Signature		**Date**
Shane Sparks		11-28-2023
Signer's name (type or print) SHANE SPARKS	**Title** GROUP MANAGER	**Phone number with area code** 423-745-6588

* Refer to the tables in the instructions for estimation method and control device codes.

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft^3 (70^0F), Wood fired boilers - Grains/Dry Standard Ft^3 (70^0F), all other boilers – Lbs. /Million BTU heat input.

*** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input

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NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION

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GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #000909235

2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1)
#17161

3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1)
#2

4. Brief description of air contaminant source (Attach a diagram if appropriate):
JESSUP PLATER ELECTROPLATING MACHINE, NON CYANIDE ALKALINE ZINC PLATING WITH TRIVALENT CHROMIUM CONVERSION COATING - CONSTRUCTION IS TO REPLACE SULFURIC ACID WITH HYDROCHLORIC IN CLEANING TANK

5. Emission point location	Latitude	Longitude	**6. Distance to nearest property line (Ft.)**
	35.457389	84.604261	125

STACK AND EMISSION DATA

7. Stack or emission point data: →	Height above grade (Ft.)	Diameter (Ft.)	Temperature (°F)	% of time over 125°F	Direction of exit (Up, down or horizontal)
	39	5.67	AMBIENT	0	UP

Data at exit conditions: →	Flow (actual $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	76255	52.63	6.2	80

Data at standard conditions: →	Flow (Dry std. $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	76255	52.63	3.9	50

8. Monitoring device and recording instrument (check all that apply):

Opacity monitor	SO_2 monitor	NO_X monitor	Strip chart	Electronic data logger	Other (specify in comments)	No monitor (none)
☐	☐	☐	☐	☐	☑	☐

9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
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Volatile organic compounds (VOC)			PPM					
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Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO_2 equivalents)								
Hazardous air pollutant (specify) HCL	6.04E-4	0.2046		0.00265	0.8961	6(see application)	001	99
Hazardous air pollutant (specify)								
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12. Signature		**Date**
Shane Sparks		11-28-2023
Signer's name (type or print)	**Title**	**Phone number with area code**
SHANE SPARKS	GROUP MANAGER	423-745-6588

* Refer to the tables in the instructions for estimation method and control device codes.

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft^3 (70^0F), Wood fired boilers - Grains/Dry Standard Ft^3 (70^0F), all other boilers – Lbs. /Million BTU heat input.

*** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input

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NON-TITLE V PERMIT APPLICATION
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5. Emission point location	Latitude	Longitude	**6. Distance to nearest property line (Ft.)**
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STACK AND EMISSION DATA

7. Stack or emission point data: →	Height above grade (Ft.)	Diameter (Ft.)	Temperature (°F)	% of time over 125°F	Direction of exit (Up, down or horizontal)
	39	4	AMBIENT	0	UP

Data at exit conditions: →	Flow (actual $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	37900	52.63	6.2	80

Data at standard conditions: →	Flow (Dry std. $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture ($Grains/Ft.^3$)	Moisture (Percent)
	37900	52.63	3.9	50

8. Monitoring device and recording instrument (check all that apply):

Opacity monitor	SO_2 monitor	NO_X monitor	Strip chart	Electronic data logger	Other (specify in comments)	No monitor (none)
☐	☐	☐	☐	☐	☑	☐

9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
WET-BED PACKED FUME SCRUBBER WITH FLOW RATE MONITORING

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Sulfur dioxide (SO_2)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO_X)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO_2 equivalents)								
Hazardous air pollutant (specify) HCL	6.04E-4	0.2046		0.00265	0.8961	6(see application)	001	99
Hazardous air pollutant (specify)								
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Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
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11. Comments

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12. Signature		**Date**
		11-28-2023
Signer's name (type or print)	**Title**	**Phone number with area code**
SHANE SPARKS	GROUP MANAGER	423-745-6588

* Refer to the tables in the instructions for estimation method and control device codes.

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft^3 (70^0F), Wood fired boilers - Grains/Dry Standard Ft^3 (70^0F), all other boilers – Lbs. /Million BTU heat input.

*** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input

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Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

APC 107

NON-TITLE V PERMIT APPLICATION
SURFACE COATING DESCRIPTION

Type or print. Submit for each spray booth, dip tank, or other surface coating equipment. Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the Tennessee Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #00909235

2. Emission Source Reference Number
14

3. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes ☑ No ☐
If Yes, list rule citation, including Part, Subpart, and applicable Sections:
SUBPAR WWWWWW

COATING OPERATION DATA

4. Unique Source ID (name/number/letter that uniquely identifies this air contaminant source, like Paint Line 1)
#17161

5. Type of coating operation	Spray booth ☐	Dip tank ☑	Other (describe)					
6. Spray booth dimensions	Width (ft.)	Height (ft.)	Depth (ft.)	Number of open sides				
7. Method of spray:	Airless ☐	Air atomized ☐	Electrostatic: Airless ☐	Disc ☐	Air atomized ☐	Overspray (Percent)	Date purchased *	
8. Exhaust data:	Number of fans	Total horsepower	Total volume (CFM)					
9. Exhaust control:	None ☐	Waterwash ☐	Exhaust filters ☐	Baffle plates ☐	Adsorption ** ☐	Other (Describe) WET BED PACKED FUME SCRUBBER		
10. Exhaust stack data **	Diameter (Ft.)	Height (Ft.) Above Grade	Flow (CFM)	Specify serial numbers that share this vent 17161				

11. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).

* The actual surface coating equipment (spray gun, spray heads, etc.) and not the spray booth per se determines the status of the source (new or existing).

** Complete one line for each stack or vent. Attach additional sheets if necessary

NOTE: This application will not be processed unless all of the following information is provided.

MATERIAL DATA

12. Coatings, Thinners, and Clean-up Solvents used:

List all types of coatings, thinners, and clean-up solvents used and attach a statement of the chemical composition of each (i.e. Safety Data Sheet). This statement usually may be obtained from the coating, thinner, or clean-up solvent supplier. The minimum information required is the percent of solids by weight, the percent volatile by weight, the hydrocarbon composition and/or description of the volatile component, and the density of the coating, thinner, or clean-up solvent in pounds per gallon.

Coating name	Base [Water, Powder or Solvent*]	%Solids by Weight	%Volatile by Weight	Density (Lbs. /Gal.)	Quantity used		
					Gallons/Day		Gal./Mo.
					Average	Maximum **	Average
HYRDOCHLORIC ACID	AQ		14	9.90			
Thinner name							
Clean – up solvent name							

* Name Solvent Base type

** For new construction, this quantity will be used as a permit limitation on capacity.

13. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concen-tration	Average Emissions (Tons/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Effi-ciency %
Particulate matter (PM)		0.00835		0.0366		3	001	99
Sulfur dioxide (SO_2)								
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO_X)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)	6.04E-4	0.2046		0.00265	0.8961	6	001	99
Lead (Pb)								
Greenhouse gases (CO_2 equivalents)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								

* Refer to the tables in the instructions for estimation method and control device codes.

EQUIPMENT DESCRIPTION

14. Equipment manufacturer	Model number	Serial number (or plant ID)
JESSUP ENGINEERING		17161

Construction date	Modification date
2-1-2018	11-13-2023

Describe any modifications*
COVERT ACID PICKLE TANKS FROM SULFURIC ACID TO HCL

15. Describe articles coated
BLACK STEEL IS DIPPED IN A SERIES OF CLEANING TANKS PRIOR TO BEING COATED WITH ALKALINE ZINC AND A TRIVALENT CHROMIUM CONVERSION COATING.

THIS APPLICATION IS TO CONVERT THE CONSTRUCTION PERMIT FOR THE ACID IN TWO CLEANING TANKS FROM SULFURIC ACID TO HYDROCHLORIC ACID WITH THE ABILITY TO CHANGE BACK TO SULUFURIC ACID AT ANY POINT IN TME TO AN OPERATING PERMIT.

16. Comments

SIGNATURE

If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17. Signature	Date
Shane Sparks	11-28-2023

Signer's name (type or print)	Title	Phone number with area code
SHANE SPARKS	GROUP MANAGER	423-745-6588

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION
SURFACE COATING DESCRIPTION

Type or print. Submit for each spray booth, dip tank, or other surface coating equipment. Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the Tennessee Secretary of State (SOS)]
ABB INSTALLATION PRODUCTS INC. #00909235

2. Emission Source Reference Number
16

3. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes ☑ No ☐
If Yes, list rule citation, including Part, Subpart, and applicable Sections:
SUBPAR WWWWWW

COATING OPERATION DATA

4. Unique Source ID (name/number/letter that uniquely identifies this air contaminant source, like Paint Line 1)
#05081

5. Type of coating operation	Spray booth	Dip tank	Other (describe)
	☐	☑	

6. Spray booth dimensions	Width (ft.)	Height (ft.)	Depth (ft.)	Number of open sides

7. Method of spray:	Airless	Air atomized	Electrostatic			Overspray (Percent)	Date purchased *
			Airless	Disc	Air atomized		
	☐	☐	☐	☐	☐		

8. Exhaust data:	Number of fans	Total horsepower	Total volume (CFM)

9. Exhaust control:	None	Waterwash	Exhaust filters	Baffle plates	Adsorption **	Other (Describe)
	☐	☐	☐	☐	☐	WET BED PACKED FUME SCRUBBER

**10. Exhaust stack data ** **	Diameter (Ft.)	Height (Ft.) Above Grade	Flow (CFM)	Specify serial numbers that share this vent
				05081

11. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).

* The actual surface coating equipment (spray gun, spray heads, etc.) and not the spray booth per se determines the status of the source (new or existing).

** Complete one line for each stack or vent. Attach additional sheets if necessary

NOTE: This application will not be processed unless all of the following information is provided.

MATERIAL DATA

12. Coatings, Thinners, and Clean-up Solvents used:

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Coating name	Base [Water, Powder or Solvent*]	%Solids by Weight	%Volatile by Weight	Density (Lbs. /Gal.)	Quantity used		
					Gallons/Day		Gal./Mo.
					Average	Maximum **	Average
HYRDOCHLORIC ACID	AQ		14	9.90			
Thinner name							
Clean – up solvent name							

* Name Solvent Base type

** For new construction, this quantity will be used as a permit limitation on capacity.

EQUIPMENT DESCRIPTION		
14. Equipment manufacturer JESSUP ENGINEERING	Model number	Serial number (or plant ID) #05081
Construction date 4-1-2019		Modification date 11-13-2023
Describe any modifications* COVERT ACID PICKLE TANKS FROM SULFURIC ACID TO HCL		

15. Describe articles coated

BLACK STEEL IS DIPPED IN A SERIES OF CLEANING TANKS PRIOR TO BEING COATED WITH ALKALINE ZINC AND A TRIVALENT CHROMIUM CONVERSION COATING.

THIS APPLICATION IS TO CONVERT THE CONSTRUCTION PERMIT FOR THE ACID IN TWO CLEANING TANKS FROM SULFURIC ACID TO HYDROCHLORIC ACID WITH THE ABILITY TO CHANGE BACK TO SULUFURIC ACID AT ANY POINT IN TME TO AN OPERATING PERMIT.

16. Comments

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Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17. Signature		**Date**
		11-28-2023
Signer's name (type or print) SHANE SPARKS	**Title** GROUP MANAGER	**Phone number with area code** 423-745-6588