From: John Fuss <John.Fuss@tn.gov>
Sent: Friday, December 4, 2020 07:51
To: Air.Pollution Control <Air.Pollution.Control@tn.gov>
Subject: FW: Permit #975063 Start up and Application for Operating Permit

Operating permit application attached

From: Lisa A. Woods-Neisler <<u>lisa.neisler@us.abb.com</u>>
Sent: Friday, December 4, 2020 7:05 AM
To: John Fuss <<u>John.Fuss@tn.gov</u>>
Subject: [EXTERNAL] RE: Permit #975063 Start up and Application for Operating Permit

Sorry it must have gotten left off the list of attachments. Here it is along with 101, and 107 for your review.

From: John Fuss <<u>John.Fuss@tn.gov</u>>
Sent: Friday, December 04, 2020 7:46 AM
To: Lisa A. Woods-Neisler <<u>lisa.neisler@us.abb.com</u>>
Subject: FW: Permit #975063 Start up and Application for Operating Permit

This email originated from **outside** of your organization. Please do not click on links or open attachments unless you recognize the sender and know the content is safe.

My apologies, which file contains the APC100? I'm not able to find it.

Thanks, John

From: Lisa A. Woods-Neisler <<u>lisa.neisler@us.abb.com</u>>
Sent: Friday, December 4, 2020 6:06 AM
To: John Fuss <<u>John.Fuss@tn.gov</u>>
Subject: [EXTERNAL] FW: Permit #975063 Start up and Application for Operating Permit

Mr. Fuss,

Please see the attachments that were included with our startup notification. APC 100, 101, and 107 and supporting documents are included.

Thanks, Lisa Neisler

From: Lisa A. Woods-Neisler
Sent: Thursday, December 03, 2020 7:17 AM
To: <u>Air.Pollution.Control@tn.gov</u>
Subject: Permit #975063 Start up and Application for Operating Permit

To Whom it Concerns,

Please see the attached files for the start up notification and application for operating permit for Permit #975063. Also attached is supporting documentation including emission calculations, SDSs, and equipment specifications. If you have any questions or concerns please feel free to contact me. Please confirm receipt of this email application.

Thanks, Lisa Neisler



NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

	water of the second state of the				representation and the second second second		and a sum in the second sec		
	Тур	e or print and sub	omit. Atta	ach a	ppropriate so	ource description	n forms.		
			SITE	INFO	ORMATION				
	Organization's legal INSTALLATION PROD			umb	er [as registe	ered with the TN	Secretary of State (SOS)]		
2.	Site name (if differen	nt from legal nam	e)						
	Is a construction pe (see instructions for a				bmitted?	Yes No	V		
	Site address (St./Rd. DENNIS STREET	/Hwy.)					County name MCMINN		
ATH	City ENS	ei.		Zip 3730	code 03		5. NAICS or SIC code 335932		
	Site location (in lat. /long.)	Latitude 35.457389				Longitude 84.604261			
		CONTACT	NFORM/	ATIO	N (RESPONS	BLE PERSON)			
	Responsible person NE SPARKS	/Authorized con	tact			Phone numbe 423-745-6588	er with area code		
260	Mailing address (St. DENNIS STREET	/Rd./Hwy.)				Fax number v 423-745-9545	vith area code		
ATH	City ENS		State TN		Zip code 37303		Email address SHANE.SPARKS@US.ABB.COM		
		CONT	FACT INF	ORM	IATION (TECI	HNICAL)			
	Principal technical NEISLER	contact				Phone numbe 423-745-6588	er with area code		
260	Mailing address (St. DENNIS STREET	/Rd./Hwy.)				Fax number v 423-745-9545	vith area code		
ATH	City ENS		State TN		Zip code 37303	Email address	s @US.ABB.COM		
		COI	NTACT IN	IFOR	MATION (BI	LING)			
	Billing contact OUNTS PAYABLE				na ganganan kata Manuna kata kata kata kata kata kata kata ka	Phone numbe 423-745-6588	er with area code		
260	Mailing address (St. DENNIS STREET	/Rd./Hwy.)	an a			Fax number v 423-745-9545	vith area code		
ATH	City ENS		State TN		Zip code 37303	Email addres	5		

	AIR CONTAM	MINANT SOU	RCE(S) INF	ORMATION							
and include a Un uniquely identifie instructions for n THIS APPLICATION IS ELECTROPLATING MAR ELECTROPLATING LIN CLEANERS, RINSE WAT	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) HIS APPLICATION IS TO CONVERT THE CONSTRUCTION PERMIT #975063 TO AN OPERATING PERMIT. THIS IS AN ECTROPLATING MACHINE THAT COATS STEEL STRUT WITH ZINC TO PREVENT CORROSION. THE ECTROPLATING LINE IS MADE OF VARIOUS HOLDING TANKS WITH VARIOUS AQUEOUS SOLUTIONS OF EANERS, RINSE WATERS, NON-CYANIDE ALKALINE ZINC ELECTROPLATING SOLUTION, AND A TRIVALENT ROMIUM CONVERSION COATING.										
		ł			1						
11. Is the air contan addressed. Yes	ninant source(s) in a no No 🖌	onattainmer	nt area? If	"Yes", then minor s	ource BACT must be						
12. Normal operation:	Hours/Day 24	Days/Week 7		Weeks/Year 52	Days/Year 365						
13. Percent annual throughput	Dec. – Feb. 25	March – Ma 25	У	June – August 25	Sept. – Nov. 25						
	TYPE OF PERMIT	REQUESTEI) (check a	ppropriate box)							
14. Operating permit	Date construction star 4-1-2019	ted Date 11-9-2		Date of ownership	change (if applicable)						
	Last permit number(s) #975063)	Emissi 54-004	on Source Reference 7-16	Number(s)						
Construction permit	Last permit number(s			on Source Reference							
If you chose Construc	tion permit above, then	choose eithe	er New Cor	struction, Modificatio	on, or Location Transfer						
New Construction Sta	arting date		Completio	on date							
Modification Da	ate modification started	or will start	Date com	pleted or will complet	te						
Location Transfer Tr	ansfer date	and a second	Address o	f last location							

15. Describe changes that have been made to this equipment or ope or operating permit application:	eration(s) since the last construction
N/A	
-	
16. Comments PLEASE REFERENCE OPERATING PERMIT #076626. THIS IS THE SAME EXAC	T STYLE OF PLATER AND CHEMISTRY
TERSE REFERENCE OF ERVITING FERMIN #070020. THIS IS THE SAME EVA	
SIGNATURE	
Based upon information and belief formed after a reasonable inquiry, I, a	
mentioned facility, certify that the information contained in this application	
knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is	and a second
17. Signature (application must be signed before it will be processed)	Date
Dhar Doarth	12-2-2020
Signer's name (type or print) Title	Phone number with area code
SHANE SPACKS PLANT MANAGE	423-745-6588

l



NON-TITLE V PERMIT APPLICATION EMISSION POINT DESCRIPTION

Туре	or print and	submit for ea	ach stack or air cor	ntaminai	nt sourc	e. Submit with th	ne APC 100.			
		GENERA	L IDENTIFICATION	N AND C	ESCRIP	TION				
1. Organization ABB INSTALLATIO	's legal name ON PRODUCTS	and SOS co #00090923	ontrol number [as 5	register	ed with	the TN Secretary	/ of State (SOS)]			
2. Unique Source #05081	:e ID (name/n	umber/lettei	r which uniquely ic	lentifies	this air	contaminant sou	ırce, like Boiler #1)			
SCROBBER #1			per/letter which ur				pint, like Stack #1)			
4. Brief descript JESSUP PLATER EI CONVERSION CO	ECTROPLATIN	ntaminant s NG MACHINE	ource (Attach a di NON-CYANIDE AL	agram if .KALINE	approp ZINC PL	oriate): ATING WITH TRIV	VALENT CHROMIUM			
5. Emission poir location	5. Emission point location Latitude Longitude 6. Distance to nearest property line (Ft.) 125									
			STACK AND EMIS	SION DA	ATA					
7. Stack or emission point data: →	Height abov (Ft.) 39	e grade	Diameter (Ft.) 4.667	(°F)	erature	% of time over 125°F	Direction of exit (Up, down or horizontal) UP			
Data at exit conditions: →	Flow (actual 76255	Ft. ³ /Min.)	Velocity (Ft. /Sec. 52.63	Velocity (Ft. /Sec.) Mi 52.63 6.2			Moisture (Percent) 80			
Data at standard conditions: →	Flow (Dry sto 76255	l. Ft. ³ /Min.)	Velocity (Ft. /Sec. 52.63)	Moistu 3.9	ıre (Grains/Ft. ³)	Moisture (Percent) 50			
8. Monitoring de	evice and reco	ording instr	ument (check all	that ap	nlv):					
Opacity m <u>onit</u> or	SO ₂ m <u>oni</u> tor	NO _x monitor	Strip chart	Electro dat <u>a lo</u>	onic ogger	Other (specif in comments	i) (n <u>one)</u>			
9. Control devic emission limit SEE ATTACHED DE	s. Include ope	rating paran	neters of control d	ordkeepi evice (flo	- ing, and ow rate,	reporting to ass temperature, pr	ure compliance with essure drop, etc.).			

APC 101

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)

instructions for	more detail	S)						
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)		0.00499	**	0.01042		3	001	99
Sulfur dioxide (SO ₂)			***					
Carbon monoxide (CO)			PPM		ar - an an Arta Sala an Arta Arta Arta Arta Arta Arta Arta Arta			
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO _x)			PPM					na – Konstantin (Marine Marine Mar
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)					- for the former to be a second			
Lead (Pb)								and a submitted on the second
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify)								- and the second se
Hazardous air pollutant (specify)			4					
Hazardous air pollutant (specify)								98
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)			n.					and the second
Other (specify)								
Other (specify)								
Other (specify)								

11. Comments SEE ATTACHED DESCRIPTION AND FLOW DIAGARAMS

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.

an contraction of the	the second s	eriale eriale perialey of perjury.
12. Signature		Date
Ally Altant	~	-12-2-2020
Signer's name (type or print)	Title	Phone number with area code
SHANE SPARKS	PLANT 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 Ft³ (70⁰F), Wood fired boilers – Grains/Dry Standard Ft³ (70⁰F), 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



NON-TITLE V PERMIT APPLICATION EMISSION POINT DESCRIPTION

Type	or	nrint and su	hmit for o	ach	chaolu an a' anna					
		print and st	DITIL TOT E		SLACK OF AIT CON	tamina	nt sourc	e. Submit with th	ne APC 100.	Construction of the same
1.0			GENERA		ENTIFICATION	AND	DESCRIP	TION	and the second second	
1. Organization	'S I	egal name a	and SOS co	ontr	ol number [as	register	ed with	the TN Secretary	of State (SOS)]	
ABB INSTALLATIO	DN F	RODUCTS	\$00090923	5						
2. Unique Source #05081	ce II	D (name/nu	mber/lette	r wł	nich uniquely ide	entifies	this air	contaminant sou	ırce, like Boiler #1)	į.
3. Unique Emiss SCRUBBER #2	sion	Point ID (r	ame/numb	oer/	letter which uni	iquely i	dentifies	this emission po	pint, like Stack #1)	
4. Brief descript JESSUP PLATER EL CONVERSION CO	-EC	ROPLATING	aminant s G MACHINE	oui NC	r ce (Attach a dia DN-CYANIDE ALI	igram if KALINE	approp ZINC PL	riate): ATING WITH TRIV	VALENT CHROMIUI	M
5. Emission point location Latitude Longitude 6. Distance to nearest property line (Ft.) 125										
				ST/	CK AND EMISS					
7. Stack or emission point data: →	Height above grade (Ft.)			Di	ameter (Ft.) 667		erature	% of time over 125°F	Direction of exit (Up, down or horizontal) UP	
Data at exit	Flo	ow (actual F	t. ³ /Min.)	Ve	Velocity (Ft. /Sec.)			l (Grains/Ft. ³)	Moisture (Danes	
conditions: \rightarrow		900			52.63			ile (Grains/Ft.)	Moisture (Perce	ent)
Data at standard conditions: →		ow (Dry std. 900	Ft. ³ /Min.)	Ve 52.	locity (Ft. /Sec.) 63		Moistu 3.9	re (Grains/Ft. ³)	Moisture (Perce 50	ent)
8. Monitoring de	evic	e and reco	ding instr	um	ent (check all t	hat an	nlv).	ana ana amin'ny tanàna mandritra dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaom		
Opacity	S	D ₂	NOx		Strip	Electro		Other (specif	v No monitor	.
monitor	m	<u>oni</u> tor	m <u>oni</u> tor		c <u>hart</u>	da <u>ta l</u>		in comments		
9. Control devic	e.	Description	of propose	d m	onitoring reco	rdkeeni	ing and		ure compliance wit	
emission limit SEE ATTACHED DE	2. 11	iciude opera	ating paran	nete	ers of control de	vice (flo	ow rate,	temperature, pr	essure drop, etc.).	
					×.					

APC 101

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)

Instructions for	more detail	s)						
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)		0.00248	**	0.00518		3	001	99
Sulfur dioxide (SO ₂)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO _x)			PPM			Alexandra ya manazi kuta k ana ya kata ka		
Hydrogen fluoride (HF)			alender in					
Hydrogen chloride (HCl)					******			
Lead (Pb)					A yaama daga sa sa sa sa sa			
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)							V	
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								Hermonia and Anna and Anna an A
Other (specify)								
Other (specify)								Contradication of the second

11. Comments SEE ATTACHED DESCRIPTION AND FLOW DIAGARAMS

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.

12. Signature		Date $12 - 2 - 2020$
Signer's name (type dr print) SHANE SPARKS	Title PLANT MANAGER	Phone number with area code

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

** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft³ (70°F), Wood fired boilers – Grains/Dry Standard Ft³ (70°F), all other boilers – Lbs. /Million BTU heat input.
 *** Exit gas sulfur diovide concentrations units: Process – Grains/Dry Standard Ft³ (70°F), wood fired 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



NON-TITLE V PERMIT APPLICATION SURFACE COATING DESCRIPTION

	Туре о	or print. Sub	mit for e		ray booth, ubmit with			her surface co	oatin	g equipme	ent.
			GENE	and the second	to a fill out of the second state of the	And the second second		SCRIPTION			
	Organization's Tennessee Secr 3 INSTALLATION	retary of Sta	e and S te (SOS)	OS con	trol numb						ion Source ence Number
	Is this air cont If Yes, list rule c CFR 63 SUBPART	itation, inclu	uding Pa						2	No	
				the second s	ATING OP						
4. #05	Unique Source	ID (name/r	umber/	letter t	hat unique	ely identi	fies th	is air contami	nant	source, lik	e Paint Line 1)
5.	Type of coating	operation	Spray I	pooth	Dip tank	Other (de	escrib	e)			
6.	Spray booth dimensions	Width (ft.)		He	eight (ft.)		Dept	th (ft.)	N	umber of	open sides
7.	Method of spray:	Airless	Air ator	nized]	Airless	Electr Disc	ostati Air at	c omized	1104-10	erspray rcent)	Date purchased *
8.	Exhaust data:	Number o	f fans		Total ho	rsepowe	r	2. 	Tot	al volume	(CFM)
9.	Exhaust	None	Water	wash	Exhaust	Ba	ffle	Adsorption	Oth	er (Descri	be)
	control:				filters	pla	ates	**	02084021035	-BED PACI UBBERS	KED
10.	Exhaust	Diameter ((Ft.) Above	9 F	low (0	CFM)	6		numbers that
	stack data **	4.66/4		Grade	39-39			55/37900		10.000	081
11.	Control device with emission linetc.).	. Descriptio mits. Includ	n of pro e opera	posed ting par	monitorin ameters c	g, record of control	keepir devic	ng, and report e (flow rate, te	ing t empe	o assure c erature, pr	ompliance essure drop,

* 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.

	Base	%Solids		Density		Quantity use	d
Coating name	[Water, Powder or	by	%Volatile by Weight	(Lbs.	Gallons/Day		Gal./Mo.
	Solvent*]	Weight	by weight	/Gal.)	Average	Maximum **	Average
MERLIN STARTER	AQ		0	8.47	19	25	390
MERLIN BRIGHTENER	AQ		0	8.55	86	90	1788
ZINC DIP PART A	POWDER		0	N/A	62LB	70LB	1292LB
ZINC DIP PART B	POWDER		0	N/A	62LB	70LB	1292LB
HYPRO YELLOW UVS	AQ		0	9.01	22	30	450
HYPROTEC (TRI-CHROME)	AQ	an a	0	11.76	22	30	458
CLEAN R 235	AQ		0	9.42	12	15	252
LIQUICLEAN LECTRO NA	AQ		0	11.30	14	18	298
** TRIVALENT CHROME IS ONLY	USED IN	CONV	COATING	NOT	ELECTRO-	PLATING	
Thinner name							
Clean – up solvent name							

* Name Solvent Base type

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

APC 107

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)

instructions for	more details	5)						
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)		00.746		0.0327		3	001	99
Sulfur dioxide (SO ₂)								
Carbon monoxide (CO)			PPM		4			
Volatile organic compounds (VOC)			PPM			- 1997 - Sooninger (d. p. ten er state er bener		
Nitrogen oxides (NO _X)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)							-1	
Lead (Pb)								
Greenhouse gases (CO ₂ equivalents)								n an
Hazardous air pollutant (specify)								enge fil en er ogsen en er ogsen er og
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								waaa oo ahaa ka k
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								14.
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								

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

		- Angenter and the second second second	APC 107
EQUIPMENT DESCRIPTION			
14. Equipment manufacturer JESSUP MANUFACTURING	Model number	Seri 0508	al number (or plant ID) 31
Construction date 4-1-2019		Мос	dification date
Describe any modifications*		****	
15. Describe articles coated STEEL STRUT WILL BE COATED WITH NO CHROMIUM CONVERSION COATING	DN-CYANIDE ALKALINE	ZINC ELECT	ROPLATING WITH A TRIVALENT
16. Comments REFERENCE OPERATING PERMIT #07662	26 THE ELECROPLATING	5 MACHINE	S AND CHEMISTRY ARE THE EXACT SAME.
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.			
knowledge. As specified in TCA Section	mation contained in thi	s applicatio	on is accurate and true to the best of my
17. Signature			Date 2-2-2020
Signer's name (type or print) SHANE SPARKS	Title PLANT MANAGER		Phone number with area code 423-745-6588