FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co.	2. NAICS Conporate Records Division)	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423.394.88	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Bo	Chattanooga x City	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga City	TN State	37416 Zip Code
7.		ate of Operation Renewal C	Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	ı No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	▼ Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	☐ Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108	-		
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 1			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which <u>might</u> :	val), are there any changes since previ	ous applicatio	n in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	rpe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per f	ate, lb/hr, (Item 3C on Form E012), or iurnace	Fuel Burning	=
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on thi	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	West	
	This form must be completely filled out before it will be processed	8/4/25 Date	RE	CEIVED

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	Chaltanooga, TN 37421. This form must be completely filled out before it will be processed.	Title 8/4/25 Date		

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		Oballanasa	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga Ciiy	State	Zip Code
	Short of the con-			•
6.	Physical Location (If different from line 5) 8091 Ferdinand Plech Way	Chattanooga	TN	37416
	Street	Clly	State	Zip Code
7.	Application for: Installation Permit Initial Certificat	te of Operation Renewal	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
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9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 3			
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	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSK	7
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer		
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		,		
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	1	***************************************		
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	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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		Til	ie	
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		Chaltanasa	TN	37419
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	Street at 1 to 1 au	· ·		
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	Street	City	State	Zip Code
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	B. Increase, decrease, or after emissions or emission points?	Yes No		
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	Mall annulated form to:		100	
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ WXW	
	AIR POLLUTION CONTROL BUREAU	Name Name	e e	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer		
	Chattanooga, TN 37421	Title		
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	CHATTANOGGA-HAMILTON COUNTY	Martin J Kasper	/ MUSER	<u> </u>
	AIR POLLUTION CONTROL BUREAU	Name		
	2034 Hamilton Place Bivd., Suite 300 Chattanooga, TN 37421	Environmental Engineer Title		
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FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corporation)	2. NAICS (porate Records Division)	Code: <u>335991</u>	
3.	Company Official to Contact; Martin J Kasper	4. Phone N	o. <u>423.394.8</u>	530
5,	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
'n.	Street or P.O. Box	Clly	State	Zip Code
				100 * -300000 #40
6.	Physical Location (If different from line 5) 8091 Ferdinand Plech Way	Chattanooga	TN	37416
	Street	City	State	Zip Code
7.	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation	 	Certificate of (Operation
	11010000 110000100000000000000000000000			=/:
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	C	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 13			
10.	If application is for a Certificate of Operation (Initial or Renewlequipment or operation which might:	al), are there any changes since pre	evious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rat Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	te, lb/hr, (Item 3C on Form E012), urnace	or Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge;	this equipment and the information	n provided on th	is application
	Mall annual of Computer		100	
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ MXW	
	AIR POLLUTION CONTROL BUREAU	Wartin) Rasper	II POR	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer	N76	
	Chattanooga, TN 37421	Till	le .	
	This form must be completely filled out before it will be processed	8/4/25 Dat	le	

FORM E001 03/2011

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3.	Company Official to Contact; Martin J Kasper	4. Phone No.	423.394.853	30
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga City	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga City	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewal C	ertificate of O	peration
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
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	☐ Fuel Burning Equipment (Form B011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
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9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 14			
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	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on this	s application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer	NOSK	
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

l.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Temessee Secretary of State Corp.)	2. NAICS C	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	423.394.85	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga Clly	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga Clip	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certificat	te of Operation Renewal	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8,	Type of equipment for which application is made:			
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	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
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9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 15			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious applicatio	on in the
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	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer 8/4/25	TO	
	This form must be completely filled out before it will be processed	0/4/23 Date	i	

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FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4. Phone No	, 423.394.88	530
5,	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
<i>D</i> 1	Sireet or P.O. Box		State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clty	State	Zip Code
7.	Application for: Installation Permit Initial Certification	te of Operation Renewal (Certificate of C	Operation
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10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious applicatio	n in the
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	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NESK	8
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co	2, NAICS C	ode: 335991	
3.	Company Official to Contact: Martin J Kasper		o, 423.394.8	530
		Ol altawara a	TAI	27440
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga v City	TN State	37419 Zip Code
	Direct at 1 for 201	. 3.9		,
6.	Physical Location	Oh - M - In	TN	0.511.6
	(If different from line 5) 8091 Ferdinand Piech Way	Chattanooga City	TN	37416 Zip Code
	Street	City	Sittle	Zip Cone
7.	Application for: Installation Permit Initial Certification	te of Operation Renewal	Certificate of (Operation
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	g this equipment and the information	provided on tl	nis application
	Mail completed form to:		Dans	,
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	1 KKK	-
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer	*	
	Chattanooga, TN 37421	Title	;	
	This form must be completely filled out before it will be processed	8/4/25 Date	4	
		Date	, E	RECEIVED

FORM E001 03/2011

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	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Martin J Kasper Nation J Kasper Environmental Engineer	MOSK	
	Chattanooga, TN 37421	TH	le	
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3.	Company Official to Contact: Martin J Kasper	4, Phone N	o, <u>423.394.8</u>	530
_	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5.	Street or P.O. Box	Clty	State	Zip Code
		•		
6.	Physical Location		25.1	
	(If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clty	State	Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewal	Certificate of (Operation
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	A. Increase, decrease, or alter process materials, fuel, refuse type	ne, etc.? Yes No		
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	Mall completed form to:		1000	9 5.
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ WWW	6
	AIR POLLUTION CONTROL BUREAU	Nan	le le	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer		
	Chattanooga, TN 37421	Titi	e	
	This form must be completely filled out before it will be processed	8/4/25 Dat	'e	

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3.	Company Official to Contact: Martin J Kasper		423.394.853	30
•		a Foot Washington	TAI	07440
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga City	TN State	37419 Zip Code
	Street or P.O. Dox	City	Onne	Lip Colle
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga City	TN	37416 Zip Code
	Street	City	Jane	Zip Colle
7.∗	Application for: Installation Permit Initial Certificat	te of Operation Renewal C	Certificate of O	peration
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	to tide and combiete to me cent or my mic medel			
	Mali completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOR	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		RECEIVE

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3.	Company Official to Contact: Martin J Kasper	4, Phone 1	No. 423.394,85	530
E	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5.	Street or P.O. Box	City	State	Zip Code
		500.50		
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	Street	City	State	Zip Code
7.	Application for: Installation Permit Initial Certificate	e of Operation Renewa	al Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No,;		0:
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	Mall completed form to:		Danie	6
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ West	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Environmental Engineer	ıme	
	Chattanooga, TN 37421	T	ii/e	
	This form must be completely filled out before it will be processed	8/4/25	ale	
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_	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
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6.	Physical Location	Chattanaga	TN	37416
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	Mall completed form to:		Dann	
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ NEXE	
	AIR POLLUTION CONTROL BUREAU	Name		
	2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer		
		Title 8/4/25		
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_	Art W. Att 353 Corporato Place	Chattanooga	TN	37419
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9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 24	V		
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre	vious applicati	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per f	ite, lb/hr, (Item 3C on Form E012), urnace	or Fuel Burnin	g
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge;	this equipment and the information	ı provided on tl	nis application
	Mall completed form (o:		Dan	,
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	1 MISK	8
	AIR POLLUTION CONTROL BUREAU	Nan	ie	
	2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer		
		TH: 8/4/25	re	
	This form must be completely filled out before it will be processed	0/4/23 Da	lø	

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	porate Records Division) 2. NAICS (Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone N	lo. 423.394.8	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga Cily	TN	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Plech Way Street	Chattanooga	TN	37416 Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewa	l Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	C	j Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted	×] Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name; Electric Induction Crucible Furnace: (G3a-Mk5) 25			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which <u>might</u> :	al), are there any changes since pro	evious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fi	te, lb/hr, (Item 3C on Form E012), urnace	or Fuel Burnin	g
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	n provided on th	nis application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Martin J Kasper Nat Environmental Engineer	****	,
	This form must be completely filled out before it will be processed	8/4/25		

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FORM E001 03/2011

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3,	Company Official to Contact: Martin J Kasper		423.394.85	530
		Ob all an area	TNI	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Bo.	Chattanooga v Ciiy	TN State	Zip Code
	Direction 1 to the	, 2.0		
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clty	State	Zip Code
7.	Application for: Installation Permit Initial Certification	te of Operation Renewal	Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		 :
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	▼ Previously Submitted	Ċ	Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	☐ Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted		Attached
9.	The following forms were previously filed: _E010, E102, E108 Equipment Name:			
٠,	Electric Induction Crucible Furnace (G3a-Mk5) 26			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	rious applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	NOW	
	2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25	,	

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FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4, Phone No.	423.394.853	30
			TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga Ciiy	State	Zip Code
				_
6.	Physical Location	Chattanooga	TN	37416
	(If different from line 5) 8091 Ferdinand Plech Way	Clty	State	Zip Code
7 .	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation	المحا	ertificate of O	oeration
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
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9,	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 27	70. /		
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might;	al), are there any changes since previ	ous application	in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	Mall completed form to:		Dan	
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	/ NOR	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer		
	Chattanooga, TN 37421	Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		
		Date		RECEIVED

FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4, Phone No.	423,394.8	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
J,	Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga Cily	TN State	37416 Zip Code
7.	Application for: V Installation Permit	e of Operation Renewal Co	ertificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8,	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	Previously Submitted	Ĺ	j Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted] Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 28			
10.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which might:	al), are there any changes since previo	ous application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or after emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rat Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per ft	e, lb/hr, (Item 3C on Form E012), or irnace	Fuel Burning	g ————
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on th	is application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NESK	
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con		ode: <u>335991</u>	
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7.	Application for: Installation Permit Initial Certificat	te of Operation Renewal (Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	☐ Previously Submitted ntaminant emissions)		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 29			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Bivd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NOM	
	This form must be completely filled out before it will be processed	8/4/25 Date		

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FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4. Phone No	423,394,85	30
5,	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga City	TN State	37419 Zip Code
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	Previous Installation Permit or Certificate of Operation	No.:		- 12 F
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
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9.	Equipment Name; Electric Induction Crucible Furnace: (G3a-Mk5) 30			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since prev	ious applicatio	n in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	provided on thi	s application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421.	Martin J Kasper Name Environmental Engineer	MESK	
	This form must be completely filled out before it will be processed	Title 8/4/25 Date		

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FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2. NAICS C	Code: 335991	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	o. <u>423.394.8</u>	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga City	TN State	37419 Zip Code
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7.	Application for: Installation Permit Initial Certificat	te of Operation Renewal	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No,:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	Ç	j Attached
	☐ Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
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9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 31			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre	vious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSW	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Name Environmental Engineer		
	This form must be completely filled out before it will be processed	Tills 8/4/25 Date		DECEMEN
				RECEIVED

FORM E001 03/2011

.1	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2. NAICS Corporate Records Division)	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423.394.8	530
5.	Mailing Address: 353 Corporate Place	Chaltanooga	TN	37419
J.	Street or P.O. Box		State	Zip Code
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7.	Application for: Installation Permit Initial Certification	te of Operation Renewal C	Certificate of (Operation
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	☐ Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
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9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 32			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since previ	ious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
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	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NOW	,:
	This form must be completely filled out before it will be processed	8/4/25 Date	REC	SEIVER

FORM E001 03/2011

ı.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Cor	2. NAICS (Code: 335991	
3.	Company Official to Contact: Martin J Kasper	4. Phone N	o, <u>423.394.8</u>	530
5.	and the second	Chaltanooga City	TN State	37419 Zip Code
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	This form must be completely filled out before it will be processed	Dat	e	

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FORM E001 03/2011

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5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
۱,	Street or P.O. Box	City	State	Zip Code
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	Previous Installation Permit or Certificate of Operation?	No.:		
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	This form must be completely filled ont before it will be processed	8/4/25 Da		

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	Mail completed form to:		Dans	i
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	me / NOK	
	2034 Hamilton Place Blvd., Sulte 300	Environmental Engineer		
	Chattanooga, TN 37421	8/4/25	IIIe	
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_	3.5 March 14mms 252 Corporate Place	Chattanooga	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	City	State	Zip Code
	511001011101201			• ISTREME/
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	City	Stale	Zip Code
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	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 36			
10.	If application is for a Certificate of Operation (Initial or Renewa equipment or operation which might:	I), are there any changes since prev	ious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	e, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	e, lb/hr, (Item 3C on Form E012), o rnace	r Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning to is true and complete to the best of my knowledge:	his equipment and the information	provided on th	is application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NOW	
	This form must be completely filled out before it will be processed	8/4/25 Dale		

RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	2. NA) orate Records Division)	CS Code: 335991	
3.	Company Official to Contact; Martin J Kasper	4. Pho	ne No. 423,394.853	0
5	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5,	Street or P.O. Box	Clly	State	Zip Code
6.	Physical Location			
	(If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clty	State	Zip Code
7.	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation 1		ewal Certificate of Op	eration
	Trottona mammada z antico e a c parameter a c a parameter a parame			
8.	Type of equipment for which application is made:			
	-77 1 1		91 	
	✓ Process Equipment (Form E010 or Form E010A)	🗶 Previously Submitted		Attached
	Fuel Burning Equipment (Form B011)	Previously Submitted		Attached
		-		
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
		ш,,		
	[Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled controlled controlled.	Previously Submitted		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 37			
10.	If application is for a Certificate of Operation (Initial or Renewal equipment or operation which might:	l), are there any changes sinc	e previous application	in the
	A. Increase, decrease, or alter process materials, fuel, refuse typ	e, etc.? Yes	10	
	B. Increase, decrease, or alter emissions or emission points?	Yes	lo	
11.	Process Welght, lb/hr, (Item 6 on Form E010), Incineration Rate Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	e, lb/hr, (Item 3C on Form E0 rnace	12), or Fuel Burning	_
	This is to certify that I am familiar with operations concerning t is true and complete to the best of my knowledge:	his equipment and the inform	ation provided on this	application
	Mail completed form to:		1 ano	
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ NUSER	
	AIR POLLUTION CONTROL BUREAU		Name	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer		
	Chattanooga, TN 37421		Title	
	This form must be completely filled out before it will be processed	8/4/25		
			Date	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	2. NAICS Co	de: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4, Phone No.	423,394.853	30
_	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5.	Street or P.O. Box		State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Sirect	CHy	State	Zip Code
7,,	Application for: Installation Permit Initial Certificate	e of Operation Renewal C	ertificate of O	peration
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 38			-
10.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which might:	al), are there any changes since previ	ous application	in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rat Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per ft	te, Ib/hr, (Item 3C on Form E012), or urnace	Fuel Burning	 .
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on this	s application
	Matl completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSK	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer		
	This form must be completely filled out before it will be processed	8/4/25		
		Date		RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co	2. NAICS C	Code: <u>33599</u> 1	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	423.394.8	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
51	Street or P.O. Box	CHy	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga Ciiy	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certification	te of Operation Renewal	Certificate of	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8,	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	Ü	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted ontaminant emissions)		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 39			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre	vious applicati	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	rpe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per f	ate, lb/hr, (Item 3C on Form E012), o furnace	or Fuel Burnin	g
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge;	; this equipment and the information	provided on tl	nis application
	Mail completed form to:	Markin I Vanner	MAN	,
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	e v per	
	2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer	2	
	This form must be completely filled out before it will be processed	8/4/25		
		Date	8	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2. NAICS C	Code: 335991	
3.	Company Official to Contact: Martin J Kasper		. 423.394.85	30
_	250 Comparate Direct	Chattanaga	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga City	State	Zip Code
	Mital 0/ 1/0/ 20/			
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clly	State	Zip Code
7,	Application for: Initial Certification Permit	te of Operation Renewal	Certificate of C	peration
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	▼ Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	[Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co.	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 40			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre-	vious applicatio	n in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11,	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per form	nte, lb/lir, (Item 3C on Form E012), c Turnace	or Fuel Burning	
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on the	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSO	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300	Name Environmental Engineer	e	
	Chattanooga, TN 37421	Title	!	
	This form must be completely filled out before it will be processed	8/4/25		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co	2. NAICS Corporate Records Division)	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	423,394,853	30
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga v <i>City</i>	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga City	TN	37416 Zip Code
7.	Installation Permit Initial Certifica	hand.	Certificate of Op	peration
	Previous Installation Permit or Certificate of Operation	No.;	v	
8.	Type of equipment for which application is made:		ونستو	
	✓ Process Equipment (Form E010 or Form E010A)	X Previously Submitted	اہا	Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted antaminant emissions)		Attached
	The following forms were previously filed: E010, E102, E108		·	
9.	Equipment Name; Electric Induction Crucible Furnace (G3a-Mk5) 41			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	vious application	ı in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	rpe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Re Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per 1	ate, lb/hr, (Item 3C on Form E012), c furnace	or Fuel Burning	_
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on this	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25 Date	!	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corporation)	2. NAICS (porate Records Division)	Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4, Phone N	o. 423.394.85	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Chattanooga Cily	TN State	37419 Zip Coile
6.	Physical Location (If different from line 5) 8091 Ferdinand Plech Way Street	Chattanooga City	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewa	Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 42			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since pro	evious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per form	te, lb/hr, (Item 3C on Form E012), urnace	or Fuel Burning	
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge;	this equipment and the information	ı provided on th	is application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSW	
	AIR POLLUTION CONTROL BUREAU 2034 Hamllton Place Blvd., Sulte 300	Nai Environmental Engineer	ne	
	Chattanooga, TN 37421	8/4/25	le	
	This form must be completely filled out before it will be processed	014123 Da	le	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	2. NAICS Converge Records Division)	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4, Phone No.	423,394,88	530
r	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5.	Street or P.O. Box	City	State	Zip Code
6.	Physical Location	Chattanaga	TN	27416
	(If different from line 5) 8091 Ferdinand Piech Way	Chattanooga City	State	37416 Zip Code
	Street	Chy	Dane	zip cone
7.	Application for: Initial Certificate Initial Certificate	e of Operation Renewal C	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	C	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted] Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 43			
10.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which might:	al), are there any changes since previ	ious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	ne, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	e, lb/hr, (Item 3C on Form E012), or irnace	Fuel Burning	
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	provided on th	is application
	Mail completed form to:		1000	,
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NEW	w
	AIR POLLUTION CONTROL BUREAU	Name		
	2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer		
		Title 8/4/25		
	This form must be completely filled out before it will be processed	Date Date		

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FORM E001 03/2011

.1	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp		de: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423,394,853	30
-	A Cillian A Idamos 253 Corporato Placo	Chattanooga	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Sireel	CHy	State	Zip Code
7.	Application for: Installation Permit Initial Certificate	e of Operation Renewal C	ertificate of O	peration
	Previous Installation Permit or Certificate of Operation	No.;		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	☐ Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace ⁻ (G3a-Mk5) 44			
10.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which might:	al), are there any changes since previ	ous applicatior	in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	ne, etc.? Yes No	16	
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per form	e, lb/hr, (Item 3C on Form E012), or Irnace	Fuel Burning	
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on this	application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer	NOSK	
	This form must be completely filled ont before it will be processed	8/4/25 Date		

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FORM E001 03/2011

.1	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2. NAICS Co	de: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423.394.85	30
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419 Zip Code
	Street or P.O. Box	c City	State	Zip Coue
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	CHy	State	Zip Code
7.	Application for: Initial Certification Initial Ce	te of Operation Renewal C	Certificate of O	peration
	Previous Installation Permit or Certificate of Operation	No.:		
8,	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	☐ Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	☐ Previously Submitted ntaminant emissions)		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 45			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since previ	ous applicatio	n in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fe	te, lb/hr, (Item 3C on Form E012), or urnace	Fuel Burning	_
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on thi	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOSK	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		

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FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Cor	2. NAICS C	Code: 335991	
3.	Company Official to Contact: Martin J Kasper		o. 423,394.8	530
٠.				
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
	Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chaltanooga	TN	37416
	Street	Clly	State	Zip Code
7.	Application for: Initial Certificat		Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	C	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
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	[Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted ntaminant emissions)		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name; Electric Induction Crucible Furnace (G3a-Mk5) 46			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre	vious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fi	te, lb/hr, (Item 3C on Form E012), o urnace	or Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	nis application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	NOW	,
	2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer	22	
	This form must be completely filled out before it will be processed	8/4/25		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co.	2. NAICS Corporate Records Division)	Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	423.394.8	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Bo	Chattanooga	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Plech Way Street	Chattanooga	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certification	ate of Operation Renewal	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	n No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
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	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted ontaminant emissions)		Attached
	The following forms were previously filed: _E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 47	A Det		
10.	If application is for a Certificate of Operation (Initial or Reneatequipment or operation which might:	wal), are there any changes since pre	vious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	ype, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Reate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per	ate, lb/hr, (Item 3C on Form E012), o furnace	or Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	g this equipment and the information	provided on th	is application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Martin J Kasper Nam Environmental Engineer	NOW	·
	Chattanooga, TN 37421	Title	3	
	This form must be completely filled out before it will be processed	8/4/25 Date	ą	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2, NAICS C	ode: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	, 423.394.85	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
J,	Street or P.O. Box		State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga Cly	TN State	37416 Zip Code
7.	Application for: Initial Certification	te of Operation Renewal (Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co.	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 48			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	rious applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per f	te, lb/hr, (Item 3C on Form E012), o urnace	r Fuel Burning	3
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Martin J Kasper Name Environmental Engineer	NOW	
	Chattanooga, TN 37421	Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corporation	porate Records Division) 2. NAICS (Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone N	o. <u>423.394.8</u>	530
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	Challanooga City	TN State	37419 Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga City	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewal	Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.;	×	
8.	Type of equipment for which application is made:			
	✓ Process Equipment (Form E010 or Form E010A)	Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 49			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since pre	vious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	te, lb/hr, (Item 3C on Form E012), urnace	or Fuel Burning	5
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	NOW	e.
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Nan Environmental Engineer		
	This form must be completely filled out before it will be processed	8/4/25		
		Dat	e	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES)	2. NAICS C	Code: 335991	
	(If corporation or LLC, name on file with Tennessee Secretary of State Cor			
3.	Company Official to Contact: Martin J Kasper	4. Phone No	423,394.8	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
	Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga <i>Cliy</i>	TN State	37416 Zip Code
7.	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation	e of Operation Renewal	Certificate of (Operation
8.	Type of equipment for which application is made:			
0,	✓ Process Equipment (Form E010 or Form E010A)	X Previously Submitted	Ċ	Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted	Ε	Attached
	☐ Incineration Equipment (Form E012)	☐ Previously Submitted	Ε	Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 50			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	ral), are there any changes since pre	vious applicati	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per form	te, lb/hr, (Item 3C on Form E012), o urnace	or Fuel Burnin	g
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on the	nis application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin I Vones	Mixu	1
	AIR POLLUTION CONTROL BUREAU	Martin J Kasper	e Vice	
	2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer	e	
	This form must be completely filled out before it will be processed	8/4/25 Dat		
	34	Date	•	RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	2. NAICS C	Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	o. <u>423.394.8</u> 5	530
_	A C. VIII. A A LIVER 252 Cornerate Diage	Chattanooga	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box	City	State	Zip Code
		Ź		• = 1010017/C
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Sireel	Clly	Stale	Zip Code
7.	Application for: Installation Permit Initial Certificate Cartificate of Operation	المصا	Certificate of C	Operation .
	Previous Installation Permit or Certificate of Operation	110		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	[] Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 51			
10.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which might:	al), are there any changes since pre	vious applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or after emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	e, lb/hr, (Item 3C on Form E012), o Irnace	or Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to:		1000	
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ MUNI	
	AIR POLLUTION CONTROL BUREAU	Nam	e	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer		
	Chattanooga, TN 37421	Title	?	
	This form must be completely filled out before it will be processed	8/4/25 Date	8	

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Co.	2. NAICS C	Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No	o. <u>423.394.8</u> 5	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
	Street or P.O. Box	e City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	City	State	Zip Code
7.	Application for: Initial Certification	te of Operation Renewal	Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted ntaninant emissions)		Attached
	The following forms were previously filed: E010, E102, E108			· · · · · · · · · · · · · · · ·
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 52			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since pre	vious applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Re Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per 1	ite, lb/hr, (Item 3C on Form E012), o urnace	or Fuel Burning	<u>.</u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to:	Moutin I Kanney	Mixin	,
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	Martin J Kasper	e Vice	
	2034 Hamilton Place Bivd., Suite 300 Chattanooga, TN 37421	Environmental Engineer Title	<u> </u>	
	This form must be completely filled out before it will be processed	8/4/25 Date	e	DEOENTE
				RECEIVED

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Con	2. NAICS Corporate Records Division)	ode: 335991	
3.	Company Official to Contact; Martln J Kasper	4. Phone No	423.394.8	530
_	252 Comparate Diggs	Chattanooga	TN	37419
5.	Mailing Address: 353 Corporate Place Street or P.O. Box		State	Zip Code
	5,120, 5,110, 20,			•
б.	Physical Location (If different from line 5) 8091 FerdInand Piech Way	Chattanooga	TN	37416
	Street	City	Stale	Zip Code
7,	Application for: Installation Permit Initial Certificat	te of Operation Renewal (Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted	Ë	Attached
	Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	[Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 53			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): _176 lb/hr per form	te, lb/hr, (Item 3C on Form E012), o urnace	r Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	Mall completed form to:		1000	,
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ NEXI	
	AIR POLLUTION CONTROL BUREAU	Name		
	2034 Hamilton Place Bivd., Suite 300 Chattanooga, TN 37421	Environmental Engineer		
	CHARGINOBO, III DITEX	Tille		
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corporation)	2. NAICS (porate Records Division)	Code: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone N	o. 423.394.8	530
_	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5.	Street or P.O. Box		State	Zip Code
	30,000 31,000 30,000	,		• 0450000
6.	Physical Location			
O.	(If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Sirect	City	Stale	Zip Code
7.	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation	ليسا	Certificate of (Operation
	Trottons mannandi I chime of comments of a primary			
8.	Type of equipment for which application is made:			
	71	_	ب	
	✓ Process Equipment (Form E010 or Form E010A)	X Previously Submitted	ــا	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014)	Previously Submitted	Γ	Attached
	(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con			
	(Less man roun toary that less than 10 toward told ancommond con	administrations,		
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name; Electric Induction Crucible Furnace (G3a-Mk5) 54			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since pre	vious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	ne, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ral Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	te, lb/hr, (Item 3C on Form E012), Jrnace	or Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on th	is application
	V 1 1 1 6 1		11.	ž.
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ MXW	t.
	AIR POLLUTION CONTROL BUREAU	Martin J Nasper Nan	18 V BCDC	
	2034 Hamilton Place Blvd., Suite 300	Environmental Engineer	,	
	Chattanooga, TN 37421	Titl	'e	
	This form must be completely filled out before it will be processed	8/4/25		
	sine form must be combarred lunch but belove it may be brocessed	Dat	le .	

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp.)	2. NAICS Co	de: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423,394.85	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
J,	Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	City	State	Zip Code
7.	Application for: Installation Permit Initial Certificat	e of Operation Renewal C	ertificate of C	Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 55			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might;	al), are there any changes since previ	ous applicatio	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ral Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fo	te, Ib/hr, (Item 3C on Form E012), or Irnace	Fuel Burning	<u> </u>
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	rovided on th	is application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Martin J Kasper Name Environmental Engineer	NOSK	
	Chattanooga, TN 37421	Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		

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FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423.394.8	530
5,	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
5,	Street or P.O. Box	CHy	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	City	State	Zip Code
7,	Application for: Installation Permit Initial Certification	te of Operation Renewal C	Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8,	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	▼ Previously Submitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co	Previously Submitted] Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 56			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious applicati	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	rpe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information p	provided on th	nis application
	Mail completed form to:		Dan.	,
	CHATTANOOGA-HAMILTON COUNTY	Martin J Kasper	/ NEX	
	AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300	Name Environmental Engineer		
	Chattanooga, TN 37421	Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25 Date		

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp.	2, NAICS Co porate Records Division)	de: <u>335991</u>	
3.	Company Official to Contact: Martin J Kasper	4. Phone No.	423.394.8	530
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
٦,	Street or P.O. Box		State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga City	TN State	37416 Zip Code
7,	Application for: Installation Permit Initial Certificat	e of Operation Renewal C	ertificate of (Operation
	Previous Installation Permit or Certificate of Operation	No.:		
8.	Type of equipment for which application is made:			
	✓ Process Equipment (Form E010 or Form E010A)	X Previously Submitted	Ċ	Attached
	☐ Fuel Burning Equipment (Form E011)	☐ Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted] Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted utaminant emissions)] Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 57			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	al), are there any changes since previ	ous applicati	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	pe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per form	te, Ib/hr, (Item 3C on Form E012), or urnace	Fuel Burning	g
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge;	this equipment and the information p	rovided on tl	nis application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Martin J Kasper Name Environmental Engineer Title	NOSK	
	This form must be completely filled out before it will be processed	8/4/25		

FORM E001 03/2011

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3.	Company Official to Contact: Martin J Kasper	4. Phone No	423.394.88	530
5,	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
	Street or P.O. Bo.	x CHy	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way	Chattanooga	TN	37416
	Street	Clty	State	Zip Code
7.	Application for: Installation Permit Initial Certification	ate of Operation Renewal (Certificate of (Operation
	Previous Installation Permit or Certificate of Operation	n No.:		
8,	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	☐ Previously Submitted	Ċ	Attached
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	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name; Electric Induction Crucible Furnace: (G3a-Mk5) 58			
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which might:	val), are there any changes since prev	ious application	on in the
	A. Increase, decrease, or alter process materials, fuel, refuse ty	ype, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
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	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	g this equipment and the information	provided on th	is application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 3034 Hamilton Place Blvd. Style 300	Martin J Kasper	NOW	!
	2034 Hamilton Place Blvd., Suite 300 Chattanooga, TN 37421	Environmental Engineer Title		
	This form must be completely filled out before it will be processed	8/4/25		

FORM E001 03/2011

I.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp	orate Records Division) 2. NAICS	Code: 335991	
3.	Company Official to Contact: Martin J Kasper	4. Phone i	No. <u>423.394.85</u> 3	0
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
١,	Street or P.O. Box	City	State	Zip Code
6.	Physical Location (If different from line 5) 8091 Ferdinand Piech Way Street	Chattanooga	TN State	37416 Zip Code
7.	Application for: Initial Certificate	of Operation Renewa	al Certificate of Op	peration
	Previous Installation Permit or Certificate of Operation N	No.:		
8.	Type of equipment for which application is made:			
	Process Equipment (Form E010 or Form E010A)	X Previously Submitted		Attached
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	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled cont	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace (G3a-Mk5) 59	A		.
0.	If application is for a Certificate of Operation (Initial or Renewa equipment or operation which might:	ıl), are there any changes since pı	evious application	in the
	A. Increase, decrease, or alter process materials, fuel, refuse typ	e, etc.? Yes No		
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11.	Process Welght, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): _176 lb/hr per fu	e, lb/hr, (Item 3C on Form E012) rnace	, or Fuel Burning	_
	This is to certify that I am familiar with operations concerning t is true and complete to the best of my knowledge:	his equipment and the informatic	on provided on this	application
	Mall completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Environmental Engineer	MOSIL .	
	This form must be completely filled out before it will be processed	8/4/25	ale	

FORM E001 03/2011

1.	Name of Company Novonix Enterprise South, LLC (NES) (If corporation or LLC, name on file with Tennessee Secretary of State Corp		Code: 335991	
3.	Company Official to Contact: Martin J Kasper		o. 423.394.853	30
٠.	Company Official to Common		10	
5.	Mailing Address: 353 Corporate Place	Chattanooga	TN	37419
	Street of P.O. Box	Clly	State	Zip Code
	Physical Location			
O.	(If different from line 5) 8091 Ferdinand Plech Way	Chattanooga	TN	37416
	Sireel	City	State	Zip Code
7.	Application for: Installation Permit Initial Certificate Previous Installation Permit or Certificate of Operation		Certificate of Op	peration
	ricylous installation relinit of Controlle of Operation			
8.	Type of equipment for which application is made:			
	✓ Process Equipment (Form E010 or Form E010A)	Previously Submitted		Attached
	☐ Fuel Burning Equipment (Form E011)	Previously Submitted		Attached
	☐ Incineration Equipment (Form E012)	Previously Submitted		Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled con	Previously Submitted		Attached
	The following forms were previously filed: E010, E102, E108			
9.	Equipment Name: Electric Induction Crucible Furnace: (G3a-Mk5) 60			
0.	If application is for a Certificate of Operation (Initial or Renews equipment or operation which <u>might</u> :	al), are there any changes since pre	vious application	in the
	A. Increase, decrease, or alter process materials, fuel, refuse type	oe, etc.? Yes No		
	B. Increase, decrease, or alter emissions or emission points?	Yes No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rat Rate, 1,000 Btu/hr, (Item 7C on Form E011): 176 lb/hr per fu	re, lb/hr, (Item 3C on Form E012), Irnace	or Fuel Burning	_
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	this equipment and the information	provided on this	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Sulte 300 Chattanooga, TN 37421	Martin J Kasper Nam Environmental Engineer		
		Tiil 8/4/25	*	
	This form must be completely filled out before it will be processed	0/4/25 Dat	e	
				RECEIVED



INSTALLATION PERMIT CERTIFICATION:

I certify, based on information and belief formed after reasonable inquiry, that the statements and information in this Application for Novonix Anode Materials, LLC are true, accurate, and complete.

Novonix Enterprise South LLL (NES Facility)

Signature

2/4/2025

Date

Martin J Kasper

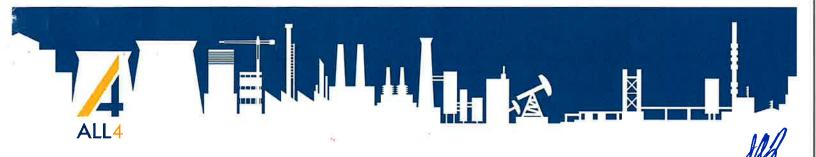
Printed Name

Environmental Engineer

Title

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INSTALLATION PERMIT APPLICATION

NOVONIX ENTERPRISE SOUTH FACILITY -

CHATTANOOGA, TN

JANUARY 2025

SUBMITTED BY:

NOVONIX

Novonix Enterprise South, LLC

Enterprise South Facility 8091 Ferdinand Piech Way Chattanooga, TN 37341



SUBMITTED TO:



Chattanooga-Hamilton County
Air Pollution Control Bureau

2034 Hamilton Place Boulevard Suite 300 Chattanooga, TN 37421



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1. INTRODUCTION

Novonix Enterprise South, LLC (Novonix) is planning to develop a new battery materials manufacturing facility called Enterprise South (Facility), which will be located at 8091 Ferdinand Piech Way, Chattanooga, Tennessee 37341 (Hamilton County). The Facility will not be subject to the Title V Operating Permit (TVOP) Program, in accordance with the terms and conditions of 40 Code of Federal Regulations (CFR) Part 70 as it will be a synthetic minor source and will not have the potential to emit (PTE) rate of 100 tons per year (tpy) or more of any regulated pollutant, dependent on emissions control devices. The Facility will not be considered major for New Source Review (NSR) permitting as the PTE of all regulated NSR pollutants is expected to be below the applicable thresholds, as detailed in Section 4.1.1. The Facility is submitting this Installation Permit Application (Application), pursuant to Chattanooga Air Pollution Control Ordinance Section 4-8(a), for the construction of the Facility. A description of operations to be authorized is provided in Section 2.3.

2. FACILITY OVERVIEW

This section of the Application includes information related to the Facility location, regulatory jurisdiction, and Facility process description. A description of the geographic and topographic setting of the Facility is also provided.

2.1 FACILITY LOCATION

The proposed Facility will be located in Chattanooga (Hamilton County), Tennessee. A U.S. Geological Survey (USGS) topographical map is shown in Figure 2-1, with the Facility location highlighted. The geographic coordinates for the Facility are:

Universal Transverse Mercator (UTM) Easting: 669,472 meters (m)

• UTM Northing: 3,886,261 m

UTM Zone: 16North American Datum (NAD): 1983

Longitude (degrees, minutes, seconds): 85° 08' 25.94" W
 Latitude (degrees, minutes, seconds): 35° 06' 17.73" N

The Facility will be located in Hamilton County, which is in attainment or unclassifiable/attainment with the National Ambient Air Quality Standards (NAAQS) for all criteria pollutants except secondary standards for total suspended particulate (TSP) as designated at 40 CFR §81.343. The surrounding area is generally hilly or uneven with the Facility's planned elevation at 245 feet above mean sea level (amsl).

2.2 REGULATORY JURISDICTION

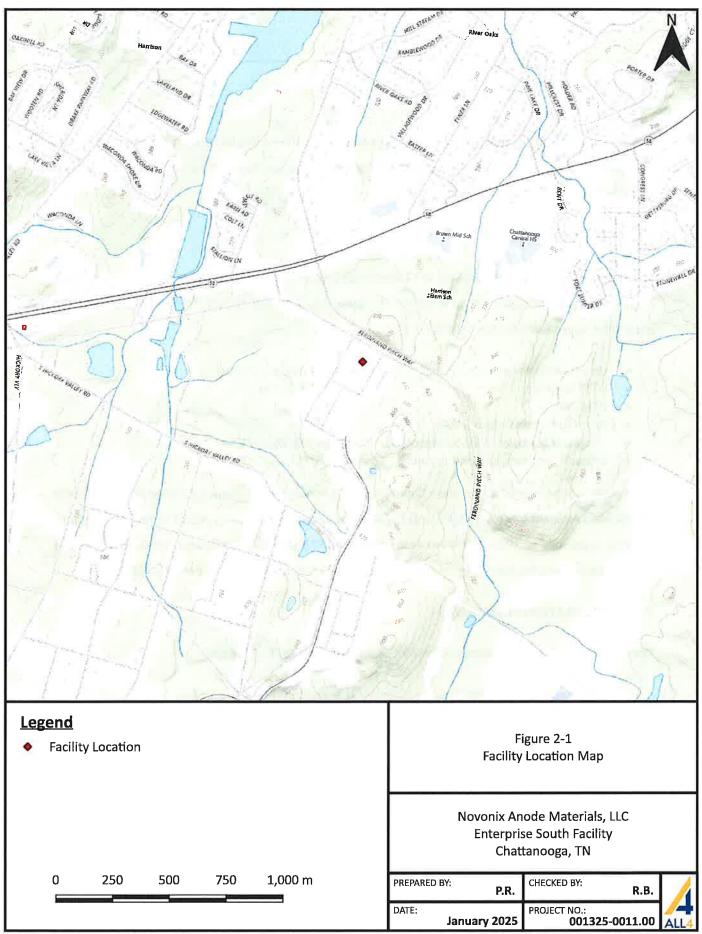
The Facility is under the jurisdiction of the following State and Federal agencies:

Chattanooga-Hamilton County
Air Pollution Control Bureau

2034 Hamilton Place Boulevard

Suite 200

Suite 300 61 Forsyth Street, SW Chattanooga, TN 37421 Atlanta, GA 30303



2.3 FACILITY PROCESS DESCRIPTION

The Facility will construct a process that receives feed material of petroleum coke (pet coke) and converts it to graphite as the final product to be used in the battery manufacturing industry. The pet coke will be processed through crushing, screening, grinding and shaping, agglomeration, calcining, graphitization, blending, and sieving after which it will be shipped and used for other industries. There will also be a "pitch" process that will be received by truck, undergo milling operations, and will be stored before entering the process at the agglomeration units. Each process will have further discussion below. A process flow diagram detailing Facility processes is provided in Figure 2-2. Novonix requests all Facility operations be authorized through the issuance of an Installation Permit, in accordance with Chattanooga Air Pollution Control Ordinance Section 4-8(a). A complete list of equipment to be installed at the Facility is provided in Table 2-1.

Table 2-1
Proposed New Equipment Summary

Installation Description	Emissions Sources	Control Device(s)
Electric Arc Furnaces	Furnaces 1-60	Baghouse, Iron Oxide Scrubber, and Regenerative Catalytic Oxidizer (only Furnaces 1-30)
Crusher Units	Primary Crushers 1 and 2, Secondary Crushers 1 and 2	Baghouse
Agglomerator Units	Agglomerators 1-6	Baghouse, Iron Oxide Scrubber, and Direct- fired Thermal Oxidizer
Calciner Units	Calciners 1-6	Baghouse, Iron Oxide Scrubber, and Direct- fired Thermal Oxidizer
Finishing	Sieving 1-15, Blending 1-3	Baghouse
Screener Units	Screeners 1 and 2	Baghouse
Grinding	Grinding Mills 1-6	Baghouse

I IVIIIIng and Shaping I	nd Shaping Baghouse Jnits 1-24
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2.3.1 Raw Coke Processing

2.3.1.1 Crushing Operations

Pet coke is received as two types, calcined coke and green coke are received through railcar where it is unloaded and undergoes magnetic separation. The pet coke then is processed through the primary crusher and the secondary crushers, which are located indoors, to be crushed to the desired size. The material is then screened and recycled for material that is bigger than the allowable size. The feed hoppers, secondary crushers, screening equipment, and storage bins are all located indoors, and each unit is equipped with its own baghouse to control particulate matter (PM) emissions.

2.3.1.2 Screening Operations

The screening operations screen the size of the raw pet coke after it is crushed in the primary crushers. If the pet coke meets the required size, it passes through the screeners and enters the grinding and shaping mills. If it does not meet the size specifications, it is recycled back into the crushers to be crushed to the appropriate size to pass through the screeners. The screeners will be equipped with a baghouse to control the PM from the screening operations.

2.3.1.3 Grinding, Milling and Shaping Operations

Once the feed pet coke has been crushed and screened, the next step involves the grinding operation where the pet coke will be ground into a fine powder. After this, the material will enter the combined milling and shaping unit. The shaping operations will be conducted after the pet coke is crushed into a fine powder and shaped into the desired form based on customer specifications. The products of the milling and shaping unit will then be sent to storage for further processing inside the agglomerator. Additionally, the milling and shaping units produce a by-product of calcined coke fines which will be collected in 1000-kilogram (kg) bulk bags. These units will be installed with baghouse control devices to control the emissions of PM.

2.3.1.4 Agglomeration Operations

The agglomerator will take the pet coke from the milling and shaping mills operation and mix it at high temperatures with the pitch agglomerate. During the agglomeration process, the pitch is impregnated into the pet coke before it enters the calcining process. The emissions from the agglomerators will be routed to individual baghouses for PM control, individual iron oxide scrubbers for hazardous air pollutants (HAP) control, and then routed to a single direct-fired thermal oxidizer. The exhaust of each agglomerator will be combined with the exhaust from a calciner before entering the direct-fired thermal oxidizer.

2.3.1.5 Calcining Operations

The calcining operations will consist of electric rotary kilns at the Facility. The rotary kilns will receive pet coke, which may be impregnated with pitch depending on customer specifications, from the agglomerators. The purpose of the calcining process is to remove the volatile material from the pet coke which will transform the green coke into calcined coke. The calcined coke will then be cooled, sized, and stored before being graphitized through the electric induction furnaces. The emissions from the calciners will be routed through individual baghouses for PM control, individual iron oxide scrubbers for HAP control, and then routed to a direct-fired thermal oxidizer. The exhaust from the calciner will be combined with the agglomerator exhaust after passing through the scrubber, before entering the direct-fired thermal oxidizer.

2.3.1.6 Miscellaneous Raw Pet Coke Processing

The Facility will include miscellaneous raw pet coke processing that contains deagglomeration, magnetic separation, storage, and cooling of the raw or calcined pet coke prior to graphitization. The operations are needed dependent on the customers' specifications for the product. The operations will not have emissions that will need to be permitted as part of this Application.

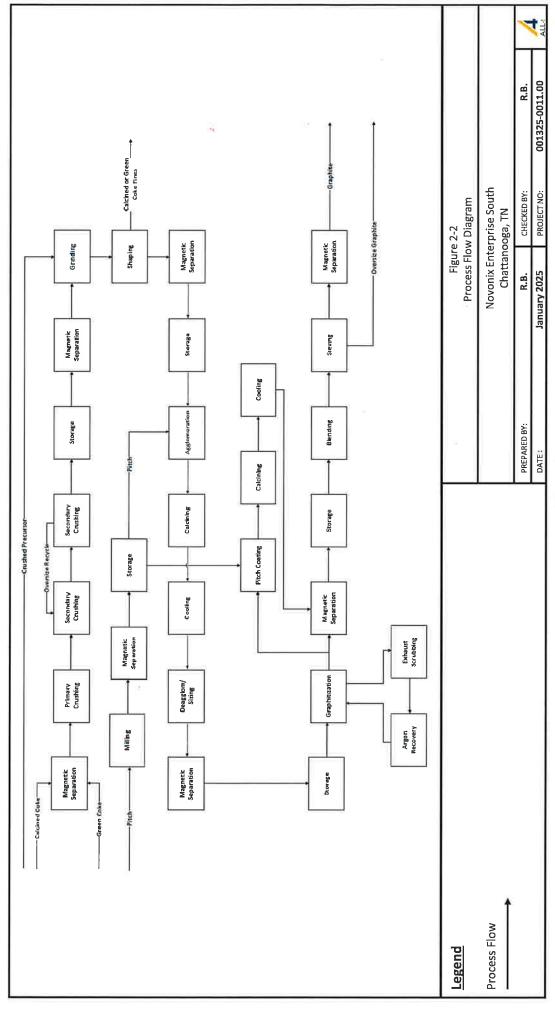
2.3.2 Graphitization Operations

The graphitization operations will consist of electric induction furnaces in an argon-rich environment. The calcined coke is loaded into the furnaces where it is heated to 3,000 °C (Celsius) to transform the calcined coke into graphite. The graphite will then be blended and sieved before being stored and shipped off-site. Each furnace will be installed with a baghouse control device to control the PM emissions. Furnace emissions will be directed to individual iron oxide scrubbers to control sulfur dioxide (SO₂), hydrogen

cyanide (HCN), and hydrogen sulfide (H₂S) emissions. Additionally, backup scrubbers will be installed for each furnace. Regenerative Catalytic Oxidizers (RCO) will be installed to control carbon monoxide (CO) emissions. To maintain emissions levels below major source thresholds, out of 60 furnaces, CO emissions from three lines, or 30 furnaces, will be controlled. Each RCO installed will control one line of furnaces (or 10 furnaces) resulting in a total of three RCOs. RCOs operate in the same manner as Regenerative Thermal Oxidizers (RTOs); however, they use a precious metal catalyst, such as platinum or palladium, rather than ceramic material in the packed bed. This enables CO destruction at approximately 800 degrees Fahrenheit (°F), which reduces the natural gas required and the overall size of the incinerator. RCOs are most effective for low-concentration waste streams that are consistent over time.

2.3.3 Finishing and Packaging Operations

Finishing operations will consist of blending, sieving, and magnetic separation before the final product is packaged and shipped to the customer. Each blending and sieving unit will be equipped with its own baghouse to control PM emissions.



3. FACILITY EMISSIONS

Detailed PTE calculations are provided in Appendix A. The proposed Facility will be a synthetic minor source as it will emit criteria pollutants including oxides of nitrogen (NO_X), CO, SO_2 , VOC, PM, PM less than 10 microns (PM_{10}), PM less than 2.5 microns ($PM_{2.5}$), lead (Pb) (from natural gas combustion only), and HAP. The Facility's PTE calculations were developed using vendor data, AP-42 emissions factors, site-specific stack test results, process throughput, and a maximum of 8,760 hours per year of operation.

3.1 STACK TEST RESULTS

Novonix utilizes emissions testing results for specific emissions units and pollutants. Two separate source tests were conducted: one for a furnace with a throughput of 40 kilograms per hour (kg/hr) and another for a calciner with a throughput of 10 kg/hr. The source test reports used for emissions calculations are included as Appendix C. NO_x, CO, total hydrocarbons (THC), HCN, and H₂S testing for the furnace was performed by Alliance Source Testing, LLC in March 2024. NO_x, SO₂, CO, HCN, H₂S, and THC testing for the calciner was performed by Alliance Source Testing, LLC in August 2024. For this Application, VOC emissions were conservatively assumed equal to THC.

3.1.1 Furnace Scrubber Stack Test

Novonix is using source tests for the 40 kg/hr furnaces at an existing facility located in Chattanooga. The furnaces were operating at full capacity during the time of the source test. The test was conducted as investigative testing to determine the emissions rates of NO_X, CO, and THC at the exhaust of the electric induction furnaces. Testing was also performed to determine the emissions rates of HCN and H_2S from the inlet and outlet of the electric induction furnace's scrubber. The summary of the electric induction furnace is detailed below in Table 3-1 of this Application.

Table 3-1 40 kg/hr Furnace Source Test Results

Pollutant	Emissions Rate (lbs/hr)	Emissions Rate (lbs/ton pet coke)
NO _X	1.2E-05	2.83E-04
CO	0.27	6.12
THC	2.7E-03	0.06
HCN (inlet)	0.22	4.98
HCN (outlet)	9.7E-05	1.99E-03
H₂S (inlet)	0.086	1.95
H₂S (outlet)	2.1E-05	3.90E-04

3.1.2 Calciner Scrubber Stack Test

Novonix is using source tests for the calciners at a production rate of 10 kg/hr. The test was conducted as investigative testing at their pilot facility located in Chattanooga to determine the emissions rates of NO_{X} , SO_{2} , CO, and THC at the exhaust of the calciners after being routed through the scrubber. Testing was also performed to determine the emissions rates of HCN and $H_{2}S$ from the inlet and outlet of the calciner's scrubber. These emissions rates are not representative of additional control provided by the thermal oxidizer. The summary of the calciner is detailed below in Table 3-2 of this Application.

Table 3-2
Calciner Source Testing Results

Pollutant	Emissions Rate (Ibs/hr)	Emissions Rate (lbs/ton pet coke)
NO _X	1.3E-04	9.07E-03
CO	0.037	3.63
SO ₂	8.4E-04	0.0907
THC	0.21	19.05
HCN (inlet)	0.014	1.26
HCN (outlet)	1.1E-05	9.90E-04
H ₂ S (inlet)	8.6E-04	0.0774
H₂S (outlet)	4.2E-07	3.78E-05

3.2 FACILITY-WIDE EMISSIONS LIMITS

The proposed Facility is expected to operate as a synthetic minor source with emissions controlled to remain below 100 tpy of all criteria pollutants and a combined 25 tpy for all HAP and 10 tpy for individual HAP. This is achieved with the use of emissions control devices. As a result, the Facility will not be considered a major source for NSR because emissions are less than 250 tpy for PM, VOC, NO_X, SO₂, CO, PM₁₀, PM_{2.5}, Pb, and H₂S. Additionally, the Facility will not be considered a major source of HAP, as its total HAP emissions will be below the major source threshold of 10 tpy for any single HAP or 25 tpy for total combined HAP.

Facility-Wide Potential to Emit Summary Novonix - Enterprise South Facility - Chattanooga, TN Table 3-3

Sumos	PM	PIM _{2.5}	PM ₁₀	VOC	NOx	8	202	H ₂ S	Total HAP ^(a)
				Controlle	d Potential E	Controlled Potential Emissions (tpy)	7		
Furnaces	0.50	0.50	0.50	1.44	0.38	72.69	70.81	9.04E-03	0.05
Grinding Mills	3.34	3.34	3.34	1	t	1	:	1	1
Milling and Shaping Mills	13.36	13.36	13.36	E	ij	ı	ı		1
Agglomerators	0.17	0.17	0.17	90'9	0.26	1.05	2.20	1,31E-03	0.04
Calciners	0.18	0.18	0.18	90'9	0.39	1.15	2.20	1.31E-03	0.04
Crushers	1.76	1.76	1.76	1	ŧ	ī	Ě	ŗ	1
Finishing	0.52	0.52	0.52	1	1	ı	1	1)	ı
Screening	1.11	1.11	1,11		1	I	:	;	1
Facility Totals	20.95	20.95	20.95	13,56	1.03	74.89	75.21	0.01	0.12
TVOP Major Source Thresholds ^(b)	100	100	100	100	100	100	100	10 (c)	25
Below Thresholds?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
[4]									

(a) All individual HAP emissions are below 10 tpy.

(b) All emissions are below the Title V major source thresholds.
(d) Significant emissions threshold increase in accordance with PSD regulations.

3.2.1 Electric Induction Furnaces

The PTE of the electric induction furnaces was calculated by using the throughput of the proposed furnaces (80 kg/hr) and emissions factors from vendor data and stack tests. The maximum grain loading and airflow rate provided by the vendor of the baghouses were the basis for the PM, PM10, and PM2.5 emissions factors. The stack test conducted in March 2024 was used to determine the emissions factors for NO_x, CO, VOC, HCN, and H₂S specific to 40 kg/hr furnaces. The emissions for the 80 kg/hr furnaces were calculated by applying the pound per ton (lb/ton) emissions factor for pet coke from the 40 kg/hr furnace to all furnaces, ensuring that the increase in emissions correlates directly with the throughput of pet coke processed. The emissions factor for SO2 was determined using a material balance based on the maximum sulfur content in the raw pet coke and the molecular weights of sulfur and SO2. The SO2 emissions factors include control efficiency from the scrubbers which was demonstrated during testing. The Facility is proposing to install RCOs for a portion of the electric induction furnaces to reduce the emissions of CO from the selected furnaces with 98% control efficiency. For this Application, it is conservatively assumed that there is no control of VOCs from the RCOs. Novonix intends to install the' RCOs on 30 of the 60 furnaces. The PTE of the RCOs resulting from natural gas combustion was calculated using AP-42 emissions factors for natural gas firing and the expected throughput of natural gas supplemented fuel, based on the proposed number of furnaces and the throughput of the direct-fired thermal oxidizer.

3.2.2 Calciners

The PTE of the calciners was calculated by using the throughput and emissions factors from vendor data and stack tests. The maximum grain loading and airflow rate provided by the vendor of the baghouses were the basis for the PM, PM₁₀, and PM_{2.5} emissions factors. The Facility is using a stack test conducted in August 2024 to determine the emissions factors for NO_x, SO₂, CO, THC, HCN, and H₂S specific to the calciners. Additionally, the VOC emissions factor was increased by 10% to account for the expected operating temperature being 10% higher than the conditions at the testing facility. A direct-fired thermal oxidizer will be installed to control VOC and CO. The PTE of the direct-fired thermal oxidizer as a result of natural gas combustion was calculated using AP-42 emissions factors for natural gas firing and the throughput provided by the manufacturer.

4. REGULATORY APPLICABILITY

The Facility has reviewed the Federal air quality regulations and Chattanooga Air Pollution Control Ordinances to evaluate their applicability to the Facility. A discussion of the applicable and potentially applicable regulations is provided below.

4.1 FEDERAL AIR QUALITY REGULATIONS

For the purpose of this Application, the applicable and potentially applicable Federal regulations that have been considered include:

- Major Nonattainment New Source Review (NNSR)/Prevention of Significant Deterioration (PSD)
- Standards of Performance for New Stationary Sources (NSPS)
- National Emission Standards for Hazardous Air Pollutants (NESHAP)/Maximum Achievable Control Technology (MACT) standards
- Compliance Assurance Monitoring (CAM)

A discussion of the applicability of the Federal air quality regulations listed above is provided in the following subsections.

4.1.1 Major NNSR/PSD

The Facility will be located in Hamilton County, which is classified as in attainment or unclassifiable for all regulated NAAQS pollutants except secondary standards for TSP; therefore, NNSR regulations do not apply to the Facility. The Facility will be classified as a minor NSR source because the potential emissions for criteria pollutants will be less than the 250 tpy threshold for unnamed sources for PSD applicability codified at 40 CFR § 52.21. Therefore, PSD is not applicable to the Facility.

4.1.2 NSPS

NSPS are codified at 40 CFR Part 60 and require new, modified, or reconstructed sources to control emissions to the level achievable by the best-demonstrated technology as specified in the applicable subparts. The proposed Facility is a battery materials manufacturing facility, not a lead acid battery manufacturing facility, and does not meet the applicability criteria NSPS Subpart KK. As such, the Facility does not meet the applicability criteria for any of the subparts codified in 40 CFR Part 60.

4.1.2.1 Subpart UUU – Standards for Performance for Calciners and Dryers in Mineral Industries

NSPS Subpart UUU sets provisions for calciners and dryers at mineral processing plants. The definition of a mineral processing plant per 40 CFR §60.731 is any facility that processes or produces one or more of the following minerals, or any mixtures in which more than 50 percent consists of these minerals or their combinations; alumina, ball clay, bentonite, diatomite, feldspar, fire clay, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide, and vermiculite. The Facility will not produce or process any of the minerals described above and therefore is not subject to Subpart UUU.

4.1.3 NESHAP/MACT

U.S. EPA has established NESHAP in 40 CFR Parts 61 and 63. NESHAP promulgated prior to the Clean Air Act Amendments (CAAA) of 1990, found in 40 CFR Part 61, apply to specific compounds emitted from particular processes. Pursuant to the CAAA of 1990, process-specific NESHAP are promulgated in 40 CFR Part 63, known as MACT standards. These standards apply to source categories identified as area sources or major sources of HAP. A major source of HAP is defined as a source with a facility-wide PTE of 10 tpy or more of any single HAP or 25 tpy or more of total HAP. The Facility will be classified as an area source because it will emit less than 25 tpy of total HAP and less than 10 tpy for any individual HAP, as demonstrated in the emissions calculations provided in Appendix A. Additionally, the Facility is not a lead acid battery manufacturing facility and, therefore, does not meet the applicability criteria for NESHAP Subpart PPPPPP, which specifically applies to lead acid battery manufacturers. There are no applicable requirements from 40 CFR Parts 61 and 63 that apply to area source battery materials manufacturing facilities.

4.1.4 CAM

U.S. EPA's CAM rule is codified at 40 CFR Part 64. An emissions unit must satisfy all applicability requirements listed in 40 CFR §64.2 to be subject to CAM. The CAM rule applies to TVOP major sources and since the Facility will not be a major source, the Facility will not require a CAM plan.

4.2 CHATTANOOGA AIR POLLUTION CONTROL ORDINANCE

The Chattanooga Air Pollution Control Ordinance was established to achieve and maintain such levels of air quality that will protect human health and safety to the greatest degree practicable, prevent injury to plant and animal life and property, and foster the comfort and convenience of the people. The Facility will be subject to the Chattanooga Air Pollution Control Ordinance and has conducted an applicability analysis of the rules and sections (Sec) as part of this Application.

4.2.1 Chapter 4 Article I – General Provisions

Article I details general provisions for all owners and operators of air emissions sources. The Facility has done an applicability analysis of Article I below as part of this Application.

4.2.1.1 Section 4-8(a) Installation Permit

The Facility is subject to the requirements of the general provisions laid out in Chapter 4 Article I. The Facility is submitting this Application pursuant to Sec 4-8(a), which requires an installation permit request. The Facility has completed all required forms and has included all required information in accordance with Sec 4-8(a).

4.2.1.2 Section 4-8(a)(14) Installation Fees

The Facility will pay the required fee amount based on Sec 4-8(a)(14). The Facility will be proposing to install:

- 60 Electric Induction Furnaces
- Six Calciners
- Six Agglomerators
- Direct-fired Thermal Oxidizer
- Three Regenerative Catalytic Oxidizers
- Two Screening Units
- Six Grinding Mills
- 24 Milling and Shaping Combo Units
- Three Blending Units
- 15 Sieving Units

The fuel-burning equipment that will be on-site is the direct-fired thermal oxidizer, which will be utilized to combust process emissions by the agglomerators and calciners. The RCOs are also fuel-burning equipment used to control CO emissions from the electric induction furnaces. Additionally,

supplementary natural gas is introduced to enhance the combustion process. The Facility will calculate the fee amount based on the process weight of process equipment from Schedule 4-8-a-III and the fuel-burning rate of fuel-burning equipment from Schedule 4-8-a-I.

4.2.1.3 Section 4-10 Records

The Facility will keep records of all permits and certificates issued by the Chattanooga-Hamilton Air Pollution Control Board and have them available for inspection as requested unless information is confidential by nature then it is protected by Sec 4-19.

The Facility will also maintain and keep records relating to the operation of the source of emissions and/or emissions from the source as requested to do so by the director. The Facility will maintain the record for seven years unless Federal requirements provide for a shorter retention period.

4.2.1.4 Section 4-11 – General Requirements

Sec 4-11 outlines the reporting requirements for owners and operators in the following situations: when an air emissions source is permanently discontinued, when there are two emissions points for a single emissions source, when there is a combination of contaminants before emission, and when there is an inseparable combination of contaminants prior to emission. The Facility will not have any instances where there is more than one emissions point for a single emissions source. However, there will be instances where multiple contaminants are combined prior to being emitted. One case involves one agglomerator and one calciner that will have emissions combined after the iron oxide scrubbers and before the direct-fired thermal oxidizer. The second case involves up to 10 electric induction furnaces, whose emissions will be routed together after the iron oxide scrubbers to a single RCO. When applicable, the Facility will follow Sec 4-11(a) and notify the bureau within 30 days of the permanent shutdown of emissions sources.

4.2.2 Chapter 4, Article II – Rules, Regulations, Criteria, Standards

Article II of the Chattanooga Air Pollution Control Ordinance details rules, regulations, criteria, and requirements that owners and operators must comply with if they are subjected to such rules. Sec 4-41 contains the rules adopted by the Chattanooga-Hamilton Air Pollution Control Board and titled Chattanooga-Hamilton County Air Pollution Control Regulations. The Facility has determined below which rules they are or are not subject to and why.

4.2.2.1 Rule 2 – Regulations of Nitrogen Oxides

Sec 4-41, Rule 2 establishes limits on the amount of NO_X that can be emitted from the emissions sources. The Facility will comply with Rule 2.4 which states "no person shall cause, suffer, or allow or permit the emissions of NO_X in excess of 300 parts per million (ppm) from process equipment and fuel-burning equipment sources except fuel-burning equipment with a design-capacity greater than 250 Million British Thermal Units per hour (MMBtu/hr), nitric acid plants, Portland Cement Plants, or emergency generators." Rule 2.4 applies to any source that does not fall under Rules 2.1 (fuel-burning equipment greater than 250 MMBtu/hr), 2.3, 2.6, and 2.7. The Facility will comply with Rule 2.4 with the following sources:

- Furnaces
- Agglomerators
- Calciners
- Direct-fired thermal oxidizer
- Regenerative Catalytic Oxidizers

The fuel-burning equipment that will be on-site is the direct-fired thermal oxidizer, which will be utilized to combust process emissions generated by the agglomerator and calciner. The RCOs are also fuel-burning equipment used to control CO emissions from the electric induction furnaces. Additionally, supplementary natural gas is introduced to enhance the combustion process.

4.2.2.2 Rule 3 – Visible Emissions Regulations

Rule 3 states the limits for opacity, the required frequency, and exceptions for allowing visible emissions greater than stated.

- Rule 3.1 states that no person shall cause, suffer, allow, or permit visible emissions from any air contaminant source with an opacity in excess of 20% for more than five minutes in any one hour or more than 20 minutes in any 24-hour period.
- Rule 3.2 states that allowance may be made for visible emissions in excess of that permitted which
 are necessary or unavoidable due to routine start-up and shutdown conditions provided that the
 owner or operator shall maintain a continuous, current log of all start-up and shutdown conditions
 showing a time at which such conditions began and ended.
- Rule 3.3 gives guidance, that when testing compliance with Rule 3.1, visible emissions should be
 evaluated in terms of equivalent opacity and expressed as percent opacity. This is applicable to

all sources that are subject to Rule 3.1. The way to determine visible emissions will be Method 9 as stated in Sec 4-3(c)(9) except the averaging period will be superseded by the 5-minute averaging period as stated in Rule 3.1.

• Rule 3.5 states that emissions sources subject to other limits in Rules 15, 16, 18, 26, and 27 shall comply with the visible emissions limitations set according to those rules or that section. Since the Facility is not subject to NSPS, NESHAP, PSD, Reasonable Achievable Control Technology, and additional visible emissions from Rule 27, the Facility will comply with the limits and standards of Rules 3.1, 3.2, 3.3, and 3.5 so that no other limits or provisions are given.

4.2.2.3 Rule 10 - Process Emissions Regulations

Rule 10 establishes provisions and limitations for PM emissions that are emissions from the process equipment. The Facility will comply with the requirements of Rules 10.1 and 10.3 as all process equipment was built or installed on or after January 1, 1973. The Facility has detailed in Table 4-1 of this Application the maximum allowable particulate emissions and the PTE from units on an hourly basis. Processes that have a throughput of 60,000 lbs/hr or less must use the following equation to establish the Maximum Allowable Limit.

$$E = 3.59P^{0.62}$$

Where E is the Maximum Allowable emissions rate in lbs/hr, and P is the process weight throughput in tons/hr.

Processes that have a throughput of 60,000 lbs/hr or more must use the following equation to establish the Maximum Allowable Limit.

$$E = 55.0P^{0.11} - 40$$

Where E is the Maximum Allowable emissions rate in lbs/hr, and P is the process weight throughput in tons/hr.

Table 4-1 displays the process equipment's maximum allowable emissions rates in reference to the maximum hourly throughput weight and the hourly PTE as a comparison. All process equipment has an hourly PTE less than the maximum hourly allowable emissions rate.

Table 4-1
Process Emissions Standards

Emissions Source Description	Source ID	Individual Process Rate (tons/hr)	Individual Allowable Emissions Rate (lbs/hr)	Individual Potential to Emit (lbs/hr)
Furnaces	Furnaces 1-60	0.09	0.80	1.80E-03
Agglomerators	Agglomerators 1-6	0.82	3.13	0.06
Calciners	Calciners 1-6	0.82	3.17	0.02
Finishing	Sieving 1- 15, Blending 1- 3	1.39	4.41	1.32E-02
Screening	Screeners 1 and 2	34.61	41.22	0.13
Crusher Units	Primary and Secondary Crushers 1 and 2	8.18	13.21	1.61E-04
Grinding	Grinding Mills 1-6	1.29	4.20	0.13
Milling and Shaping	Milling and Shaping Combo Units 1-24	1.29	4.20	0.13

Rule 10.4 states that tests must be conducted to determine compliance with Rule 10 as provided in Sections 4-3, 4-8, and 4-11 of Article I. Testing for particulate emissions shall be determined by Method 5, 5A, 5B, 5D, 5E, 5F, 5G, 5H, 5I, or 17 as set forth in Title 40 CFR Part 60, Appendix A. Rule 10.7 states that irrespective of Table 2 of Rule 10, no person shall allow or permit the discharge of PM emissions from process equipment in excess of 0.25 grains per cubic foot (gr/ft³) of stack gases corrected to 70 °F and one atmosphere (atm). Testing will be conducted on a piece of equipment that is representative to each of the units in Table 4-1 to ensure compliance with these standards.

4.2.2.4 Rule 12 - Regulation of Odors in the Ambient Air

Rule 12 regulates the odors of ambient air for any owner or operator of air emissions sources. The Facility will comply with rules outlined in Rule 12 but does not anticipate any noxious odors, fumes, dust, vapors, or gases that are offensive from the property boundary.

4.2.2.5 Rule 13 - Regulation of Sulfur Oxides

Rule 13 of Article of the Chattanooga Air Pollution Control Ordinance regulates the amount of SO₂ that can be emitted from process and fuel-burning equipment.

- Rule 13.1 states that no emissions of gas shall contain SO₂ in excess of 500 ppm, except for fuel-burning equipment. The emissions units that will comply with Rule 13.1 are:
 - o Furnaces 1-60
 - o Calciners 1-6
 - o Agglomerators 1-6
- Rule 13.2 limits the amount of SO₂ from fuel-burning equipment to 4 pounds per Million British
 Thermal Units (lb/MMBtu) of fuel consumed. The emissions unit that will comply with Rule 13.2

 as part of this Application is the Direct-fired Thermal Oxidizer.
- The only fuel-burning equipment that will be on-site is the direct-fired thermal oxidizer, which will be utilized to combust process emissions generated by the agglomerator and calciner. The Facility will comply with the limits stated here and will comply with the method of sampling and analyzing exhaust gases by Rule 13.3. All emissions units stated in this section will comply with the specified techniques promulgated by the board in Sec 4-3(c)(1), (2), and (6).

4.2.2.6 Rule 15 – New Source Performance Standards

The Facility will not be subject to the provisions of NSPS subparts as stated in Section 4.1.2 of this Application.

4.2.2.7 Rule 16 – Emissions Standards for Hazardous Air Pollutants Other Than Asbestos

The Facility will not be subject to the provisions of NESHAP subparts as stated in Section 4.1.3 of this Application.

4.2.2.8 Rule 18 - Prevention of Significant Deterioration of Air Quality

The Facility will not be a major source of PSD criteria pollutants as detailed in Section 4.1.1 of this Application.

4.2.2.9 Rule 25 - General Provisions and Applicability for Volatile Organic Compounds

Rule 25 establishes emissions standards for new and existing sources of VOC located within Hamilton County. The Facility's VOC emissions will have the PTE less than 100 tons per year as listed in Rule 25.3 and is not a source category listed;

- 25.7 (Petroleum Liquid Storage),
- 25.8 (Bulk gasoline plants),
- 25.9 (Bulk gasoline terminals),
- 25.10 (Gasoline dispensing facilities stage 1 vapor recovery),
- 25.12 (Can coating),
- 25.13 (Coil coating),
- 25.14 (Fabric and vinyl coating),
- 25.15 (Metal Furniture Coating),
- 25.16 (Surface coating of large appliances),
- 25.17 (Magnet wire coating),
- 25.18 (Solvent Metal cleaning),
- 25.19 (Cutback asphalt),
- 25.21 (Surface coating of miscellaneous metal parts and products),
- 25.27 (Manufacture of synthesized pharmaceutical products).

Therefore, there are no limitations for VOC in Rule 25 that the Facility is to comply with as part of this Application.

4.2.2.10 Rule 27 - Particulate Matter Controls for New Sources and New Modifications After August 29, 1995

Rule 27.1 states that any new source or modification, alteration, or reconstruction that begins installation August 29, 1995, and emits or potentially emits, 15 tpy or more of PM₁₀ emissions, or emits or can boten tially emit 25 tpy or more of PM before control shall utilize "particulate matter best available control technology emit 25 tpy or more of PM before control shall utilize "particulate matter best available control base DN emissions of 25 tpy or more of Fivi before control solutions. The Facility is not proposing any emissions unit or source that will have DN emissions of 25 tpy or more; therefore, Rule ology" as defined by Rule 27.2. The Facility is not proposing and,

Mag emissions of 15 tpy or more, nor does it have PM emissions of 25 tpy or more; therefore, Rule emissions of 15 tpy or more, nor does it have rividence.

Tot applicable. Rules 27.3 and 27.4 are applicable to the Facility for this Application.

- Rule 27.3 requires new or modified sources that emit less than 15 tpy of PM₁₀ and less than 25 tpy of PM prior to control to achieve "reasonable and proper emission limitations" as defined in Rule 27.4. The Facility will emit less than 15 tpy of PM₁₀ and less than 25 tpy of PM from each emissions source.
- Rule 27.4 requires achievable emission limits based on control technology and costs. The Facility
 will use baghouses for applicable emissions sources as the technology available to control PM
 emissions.

4.2.3 Chapter 4, Article III – Part 70 Source Regulation and Permits

Article III of the Chattanooga Air Pollution Control Ordinance establishes provisions and rules for Part 70 sources. Part 70 sources, as defined in Sec 4-53, are any sources subject to the permitting requirements of this ordinance and as required in 40 CFR §§70.3(a) and 70.3(b), and as defined in Sec 4-54. Since the Facility will be a synthetic minor source, it does not meet the requirements established in Sec 4-54 for a major source and, therefore, is not subject to the full Part 70 requirements. However, the Facility will be subject to the provisions of Sec 4-54(e), which apply to synthetic minor sources and will fully comply with the requirements set forth in this section. Therefore, Article III is not applicable to this Application, except as outlined in Sec 4-54(e).

Table A-1 80 Kg Furnaces Potential to Emit Novonik - Enterprise South Facility - Chattanooga, TN

Source	No. of	Pollitant	Establish Endoyfil	#HTT	Freischme Sactor Bafaranne	Picarton Completion	Total Controlled P.	Total Controlled Potential Emissions
	Sources		THE STATE OF THE S			בתווחתו בווורובוורא (יש)	lb/hr	tpy
		PM ^(d)	3.50E-03	gr/dscf	Baghouse Vendor Data ^(e)	1	50'0	0.24
		PM ₁₀ ⁽⁴⁾	3.50E-03	gr/dscf	Baghouse Vendor Data ^(e)	ı	50'0	0,24
		PM _{2.5} ^(d)	3.50E-03	gr/dscf	Baghouse Vendor Data ^(e)	1	50'0	0.24
		so ₂ m	39.96	lb/ton pet coke	Material Balance	92.36%	8.08	35.41
		CO ^[6]	6,12	lb/ton pet coke	Stack test conducted on 3/12/2024	Ŷ	16,20	70.95
RCO)	30	HCN	4,98	lb/ton pet coke	Stack test conducted on 3/12/2024	%96°66	5.28E-03	0,02
		H ₂ S	1,95	lb/ton pet coke	Stack test conducted on 3/12/2024	886.66	1,03E-03	4,526-03
		NO _X ^[4]	2.83E-04	lb/ton pet coke	Stack test conducted on 3/12/2024	3 4	7,505-04	3.29E-03
		VOC ⁽⁴⁾	90'0	lb/ton pet coke	Stack test conducted on 3/12/2024	ŧ()	0.16	0,71
		giMd	3,50E-03	gr/dscf	Baghouse Vendor Datalet		0,05	0,24
		PM ₃₆ ⁶⁶ .	3.50E-03	gr/dscf	Baghouse Vendor Data ⁽⁶⁾	3.	50'0	0,24
		PM _{2.8} (40)	3,50E-03	gr/dscf	Baghouse Vendor Data ^{[4)}		0.05	0,24
		SO ₂ II	39.96	lb/ton pet coke	Material Balance	92.36%	8.08	35.41
	{	CO ^(t)	6.12	lb/ton pet coke	Stack test conducted on 3/12/2024	98.00%	0.32	1,42
umace; 80 kg/hr (with RCO)	30	HCN	4.98	lb/ton pet coke	Stack test conducted on 3/12/2024	%96'66	5.28E-03	0,02
		H ₂ S	1,95	lb/ton pet coke	Stack test conducted on 3/12/2024	886.66	1,03E-03	4.52E-03
		NOx	2.835-04	lb/ton pet coke	Stack test conducted on 3/12/2024	.0	7,50E-04	3,29E-03
		voc	90'0	lb/ton pet coke	Stack test conducted on 3/12/2024	(1)	91'0	0.71
		00	84,00	lb/MMscf	AP-42, Table 1,4-1	#	0.07	0.32
		NOx	100,00	lb/MMscf	AP-42, Table 1.4-1		60'0	0.38
		PM	7.60	lb/MMscf	AP-42, Table 1,4-2	4	6516-03	0,03
CLA	*	PM ₁₀	2.60	lb/MMscf	AP-42, Table 1,4-2	(#	6.51E-03	0.03
2	2	PM _{2.5}	7.60	lb/MMscf	AP-42, Table 1.4-2	Ч	6.51E-03	0.03
		502	09'0	lb/MMScf	AP-42, Table 1.4-2	0	5.14E-04	2,25E-03
		NOC	5.50	lb/MMscf	AP-42, Table 1.4-2	37	4.71E-03	0.02
		Lead	5,00E-04	Ib/MMscf	AP-42, Table 1.4-2	9	4.29E-07	1.886-06

Parameter	Value	Unk
Operating hours/year	1,760	hrz/w
Ton/Pounds Conversion	2,000	lbs/ton
Grain/ib Conversion	7,000	gr/lb
Throughput (pet coke)	80	kg/hr
Throughput (pet coke)	176.60	lb/hr
Catafytic Oxidizer NG Usage	4.76	sclas
Kg/lb Conversion	0.45	kg/lb

Pollutant	Infet Cuncentration (Ib/Nr)	Outlet Concentration (lb/hr)	Control Efficiency (%)	Boxls
50,	1100	8.406.04	92.36K	8/13/24 Testing
HCN	0.22	9.705-05	895-56X	4/12/24 Testing
H,S	0.086	2.10E-05	X80.998	4/12/24 Testing

We but emissions shours are for controlled emissions and calculated uning the bug/house maximum grain boating and maximum at flow rates. [emissions factor,] "[flow rate]/ (grains per pound] " 60, CO, NO, and VOC emission factors are based on measurements taken after the fron oxide scrobbers, therefore they are controlled emissions factors.

Flow Rate 00.09
 M augmonts Vender Deta.
 Vender
 Model Number
 Grain Leading
 Grain Leading Libra

 Au
 Young
 HWISE-9
 3 50E-GB
 gr/d.cd

 S(5) + O₂(g) -+ SO₂(g)
 Interpretate
 NW Ending
 NW Ending
 SO₂ (lb/lb per coke)
 SO₂ (lb/lb pe

Table A-2

Grinding Mill Potential to Emit Novonix - Enterprise South Facility - Chattanooga, TN

	No. of		Emissions		Emissions Factor	Control	Total Controlled Potential Emissio	Potential Emissions ^(a)
Source	Sources	Pollutant	Factors ^(b)	ยูเร	Reference ^{id}	Efficiency (%)	lb/hr	tpy
		PM	3.50E-03	gr/dscf	Baghouse Vendor Data	1	0.76	3.34
Grinding Mills	9	PM ₁₀	3.50E-03	gr/dscf	Baghouse Vendor Data	ï	0.76	3.34
		PM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data	ī	0.76	3.34

M Potential Emissions are calculated under the following parameters:

ì	-	_		
	Unit	hr/yr	lb/ton	grain/lb
	Value	8,760	2,000	7,000
	Parameter	Operating Hours	Conversion	Grains/Pounds Conversion

⁽b) PM emissions factors are for controlled emissions and calculated using the baghouse maximum grain loading and maximum air flow rate: (emissions factor) * (flow rate)/ (grains per pound) * 60

(c) Baghouse Vendor Data

6	Vondos	No. of all Management	Grain	Contra loading Halbe	Close Bake
source	IONIDA	Model Number	Loading	GIAIII LUAUIIIS OIIIIS	LION VAIC
	Nueman and Esser Process (NEA)	2000	10101	3	9617
ALL	Technalogy	CF 3200	3.505-03	gr/ascr	4,238

Table A-3
Milling and Shaping Mill Potential to Emit
Novonix - Enterprise South Facility - Chattanooga, TN

Courses	No. of	Bollinbant	Emissions	Links	5	Control	Total Controlled P	Total Controlled Potential Emissions ^(a)
	Sources	Tollow I	Factors ^(d)	2	Reference ^(b)	Efficiency (%)	lb/hr	tpy
		PM	3.50E-03	gr/dscf	Baghouse Vendor Data		3.05	13.36
Milling and Shaping Mill Combo	24	PM ₁₀	3.50E-03	gr/dscf	Baghouse Vendor Data	î	3.05	13.36
		PM _{2,5}	3.50E-03	gr/dscf	gr/dscf Baghouse Vendor Data	1	3.05	13.36
Potential Emissions are calculated under the folio	following parameters:	ers:						

Parameter

Operating Hours

Conversion

Grains/Pounds Conversion

® Baghouse Vendor Data

	Grain Loading Units	gr/dscf
	Grain Loading	3.50E-03
	Model Number	CF 3200
	Vendor	Nueman and Esser Process (NEA) Technology
and the same of th	Source	ALL

Unit hr/yr lb/ton grain/lb

Value 8,760 2,000 7,000 Flow Rate 4,238

la PM emissions factors are for controlled emissions and calculated using the baghouse maximum grain loading and maximum air flow rate: (emissions factor)* (flow rate)/ (grains per pound) * 60

Table A-4 Agglomerators Potential to Emit Novonix - Enterprise South Facility - Chattanooga, TN

Collece	Ma of Coursess	Dollishand	(d)	ile is		Control Céfeines (IK)	Total Controlled	Total Controlled Potential Emissions ^[6]
	Table to tour		Cilipatons ractor		CITISSIONS PACCON NEIGHBING	feel following form	lb/hr	tpy
		CO ^(d)	3,63	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	%00'66	0,24	1.05
		H ₂ S ^(e)	60'0	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	%56'66	2,99E-04	1.31E-03
		HCN ^(e)	1,27	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	%06*66	8.37E-03	0.04
		PM	3,50E-03	gr/dscf	Baghouse Vendor Data ^(f)	i i	0.04	0.17
Agglomerator ^(h)	9	PM ₁₀	3,50E-03	gr/dscf	Baghouse Vendor Data ^(f)	t	0.04	0.17
		PM25	3.50E-03	gr/dscf	Baghouse Vendor Data ⁽⁹⁾		0,04	0,17
		NOx	9.07E-03	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	i	90'0	0,26
		SO ₂ ⁽⁶⁾	1,00	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	92,36%	0.50	2.20
		VOC ^(d)	20,96	lb/ton pet coke	Conservatively assumed equal to Calciner emissions.	%00"66	1.38	90'9

ı	eters
Į	param
	following
ı	the
ı	under
	re calculated
I	Emissions a
	Potential

Parameter	Value	Unit			
Operating Hours	8,760	hr/yr			
Commercion	2,000	lb/ton			
Throughput (pet coke)	2,200	lb/hr			
Grains/Pounds Conversion	000'1	grain/lb			
Kg/Lb Conversion	0.45	kg/lb			
⁽⁴⁾ Baghouse Vendor Data					
Source	Vendor	Model Number	Grain Loading	Grain Loading Units	Flow Rate
Agglomerators	The Young Industries VC 24-12-36	VC 24-12-36	3,505-03	gr/dscf	220

¹⁰ M emissions factors are for controlled emissions and calculated using the bagbouse maximum grain loading and maximum afrow rate: (emissions factors) * (flow rate) (figure per pound) * 60, MO_a emissions factors are also for controlled emissions.

Flow Rates Units dscfm

^{**} Control efficiency based on the form orde scrubber testing 8/13/24,

*** Control efficiency based on the form orde scrubber testing 8/13/24,

*** Control efficiency based on the form orde scrubber testing 8/13/24,

*** Control efficiency based on the form orde scrubber testing 8/13/24.

*** So, Control efficiency Control efficiency

Table A-5 Calciners Potential to Emit Novonix - Enterprise South Facility - Chattanooga, TN

Source	No. of Sources	Pollutant	Plantone Cartonid	- India	(b)	Control Efficiency (42)	Total Controlled Potential Emissions (1)	stential Emissions
			CIIII Seluii S Lactul		CHIESTOR'S PACKOL NEIGHBOR	משוקטו בווורבוורג (עו)	lb/hr	Ádq
		CO ^(d)	3.63	lb/ton pet coke	Stack Test conducted on 8/13/24	99.00%	0,24	1.05
		H ₂ S ^[e]	60'0	lb/ton pet coke	Stack Test conducted on 8/13/24	99.95%	2.99E-04	1,31E-03
		HCN ^(e)	1,27	lb/ton pet coke	Stack Test conducted on 8/13/24	99.90%	8.37E-03	0.04
		PM	3,50E-03	gr/dscf	Baghouse Vendor Data ^m	1	0.04	0.17
Calciner	9	PM ₁₀	3,505-03	gr/dscf	Baghouse Vendor Data ^(f)	а	0.04	0.17
		PIM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data ^(f)	i	0,04	0.17
		NOx	9.07E-03	lb/ton pet coke	Stack Test conducted on 8/13/24	T.	90:0	0.26
		SO ₂ ⁽⁸⁾	1.00	lb/ton pet coke	Stack Test conducted on 8/13/24	92.36%	05'0	2.20
		VOC ^(d)	20.96	lb/ton pet coke	Stack Test conducted on 8/13/24	%00°66	1.38	90'9
		00	84.00	lb/MMscf	AP-42, Table 1.4-1	1	0.02	0,11
		NOx	100.00	lb/MMscf	AP-42, Table 1.4-1		0.03	0,13
		PM	7.60	lb/MMscf	AP-42, Table 1.4-2		Z.17E-03	9.51E-03
:		PM ₁₀	7.60	lb/MMscf	AP-42, Table 1.4-2		2.17E-03	9,51E-03
Inermal Oxidizer		PM _{2.5}	7.60	lb/MMscf	AP-42, Table 1.4-2		2.17E-03	9.51E-03
		502	0.60	lb/MMScf	AP-42, Table 1.4-2	1	1,71E-04	7.51E-04
		VOC	5.50	lb/MMscf	AP-42, Table 1.4-2	=======================================	1.57E-03	6.88E-03
		Lead	5.00E-04	lb/MMscf	AP-42, Table 1.4-2	1	1.43E-07	6.26E-07

Parameter	Value	Unit
Operating Hours	B,760	hr/yr
Ton/Pounds Conversion	2,000	lb/ton
hroughput (pet coke)	2,200	lb/hr
Grains/Pounds Conversion	7,000	dl/ulezg
Thermal Oxidizer NG Usage	4.76	sdm
Kg/Lb Conversion	0.45	kg/lb

Pl flaghouse Vendor Data					
Source	Vendor	Model Number	Grain Loading	Grain Loading Units	Flow Rate
Caldners	The Young Industries	VC 24-12-36	3,50E-03	gr/dscf	220
Manage and a second sec	r				

Flow Rates Units dscfm

when emissions are for controlled emissions and calculated using the baghouse maximum grain loading and maximum air flow rate; (emissions factor) (flow rate) (grains per pound) * 60. NO, emissions factors are also for controlled emissions.

⁽⁴⁾ Control efficiency based on the direct-fired thermal oxidizer, (n) Control efficiency based on the Iron oxide scrubber testing 8/13/24.

^{IO} Conservative estimate that PM=PM_{to}=PM₅₅ ^{IM} SO, Control Efficiency Calculation, based on 8/13/24 testing at a throughput of 10 kg/hr

Outlet Concentration (lb/hr) 8.40E-04 Inlet Concentration (lb/hr) 0.011

Table A-6 Crushers Potential to Emit Novonix - Enterprise South Facility - Chattanooga, TN

College	No of Courses	Pollintent	do of Courses Dollings of	1 lab	(d)	Cambral Collaborary (92)	Total Controlled	Total Controlled Potential Emissions ¹⁴
2000		Nile and the second	EMISSIONS FACTORS	1100	Emissions Factor Neterence	Collinoi Elliciciicy (A)	lb/hr	tpy
:		PM	3.50E-03	gr/dscf	Baghouse Vendor Data	1	0.40	1.76
Primary and Secondary	4	PM ₁₀	3,50E-03	gr/dscf	Baghouse Vendor Data	3.	0.40	1.76
2010		PM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data	T)	0.40	1.76

Protectial Enissions are calculated under the following parameters:

Parameter Value
Operating hours 8,780 hours/year
Ton/Pound Conversion 2,000 grain/lib
Maghtouse Vendor Data

 Source
 Vendor
 Model Number
 Grain Loading
 Grain Loading Units
 Flow Rate
 Flow Rate
 Flow Rates Units

 Primary and Secondary Cushers
 The Young Industries
 v. C72-52-68
 3.50E-G3
 gr/dscf
 3,345
 discrim

Table A-7
Finishing Operations Potential to Emit
Novonix - Enterprise South Facility - Chattanooga, TN

Cource	No. of	Pollitant	Emissions	Linite	Emissions Factor	Control Efficiency (92)	Total Controlle	Total Controlled Potential Emissions ^(a)
77	Sources		Factors ^(c)		Reference ^(b)	בסוות סו בווורובוורא (יש)	lb/hr	tpy
		PM	3,50E-03	gr/dscf	Baghouse Vendor Data		0.10	0.43
Sieving	15	PM ₁₀	3.50E-03	gr/dscf	Baghouse Vendor Data	3	0.10	0.43
		PM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data	1	0.10	0.43
		PM	3.50E-03	gr/dscf	Baghouse Vendor Data	60	0,02	0.09
Blending	m	PM ₁₀	3.50E-03	gr/dscf	Baghouse Vendor Data		0.02	0.09
		PM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data	4	0.02	0.09

M Potential Emissions are calculated under the following parameters:

Parameter	Value	Unit
Operating Hours	8,760	hr/yr
Conversion	2,000	lb/ton
Grains/Pounds Conversion	7,000	grain/lb

(b) Baghouse Vendor Data

Flow Rate	220
Grain Loading Units	gr/dscf
Grain Loading	3,50E-03
Model Number Grain Loading	VC 24-12-36
Vendor	The Young Industries
Source	ALL

Flow Rates Units dscfm

⁽a) PM emissions factors are for controlled emissions and calculated using the baghouse maximum grain loading and maximum air flow rate: [emissions factor] * (flow rate)/ [grains per pound] * 60

Table A-8 Screeners Potential to Emit Novonk - Enterprise South Facility - Chattanooga, TN

Course	No. of	Ballishme	Ballistant Resident	diam's	District of the Control of the Contr	(w)	Total Controlled P	otential Emissions
Source	Sources	Tolland	Emissions ractor		Emissions Factor Reference	Canteron Enticiency (26)	lb/hr	tpy
		PM	3,50E-03	gr/dscf	Baghouse Vendor Data	I.	0.25	1.11
Screener	2	PM ₁₀	3.50E-03	gr/dscf	Baghouse Vendor Data	3	0.25	1.11
		PM _{2.5}	3.50E-03	gr/dscf	Baghouse Vendor Data	E	0.25	1.11

| Petential Enrissions are calculated under the following parameters:
Parameter	Value	Unit
Describing Hours	8,760	hr/yr
Conversion	2,000	lb/ton
Throughout fet cake	1,640	lb/for
Gallins/Pounds Conversion	7,000	girain/lb
Pill Baghouse Vender Dats		

Flow Rates Units dsefm

maximum grain loading and maximum air flow rate: (emissions factor) * (flow rate)/(grains per pound) * 60

PROCESS EQUIPMENT APPLICATION

FORM E010 07/2000

	Name of Company (as shown on I	ine 1, Form E00	1): Nov	onix Enterprise Sou	ith, LL	C (NES)
<u>.</u>	Equipment Name (as shown on Li	ne 10, Form E00	1): <u>Elec</u>	tric Induction Cruci	ble Fu	rnaces (G3a-Mk5) 1-3060
.	Installation Date: 1/1/26	4. <i>Typ</i>	e of Pro	cess: Furnace proc	essing	graphite
j.	Major Raw Materials Used: Calcin	ed Petroleum Co	ke, Argo	n, and Nitrogen Ga	S	
i.	Process Weight: This is the total we	176 per fu ight of all materials in	rnace troduced ir	Pouto the process.	ınds p	er hour
	Control Equipment					
	Emissions Uncontrolled		√ Bag	nhouse (File Form I	E102)	
	Wet Collecting Device (File Fo	rm E103)	☐ Ine	tial Separators (Fil	e Forn	n E105)
	Electrostatic Precipitator (File l	Form E104)	✓ Oth	er – Specify: Dry Iro	n Oxide Scr	ubber, Regenerative Catalytic Oxidizer
	Control Efficiency					
	Enter the control efficiency for each pollutan zeros if the emissions are uncontrolled as no		pment (for	appropriate Forms E102	2, E103,	E104, E105, E107, or enter
	Po	llutant	0/	Efficiency		
	Particulates			99.90		
	SO _x			92.36		
	NO _x			N/A		
	CO			98.00		
	VOC			N/A		
	Other: HC	N, H2S	9	9.95,99.98	:	
	Emissions Summary				18thardin	
	Enter the amount of each pollutant listed in p	ounds per hour. See	e attached	Table A-1. All values a	re per	furnace.
	Pollutant	Uncontrolled Er (File Form E		Actual Emissions (Stack Test Report)		Estimated Emissions (See Formula A)
	Total Suspended Particulate					0.070,000018
	PM10					0.07 0.0000088
	Sulfur Oxides				OR	10.78-0.165
	Nitrogen Oxides (as NO ₂)					1:00E-03 0.000025
	VOC					0.22 0,0053
	HCN	1				7:04E=03: 0.00019
	H2S CO					1.38E-03 0.0000 43 -0.43 0.011
	Formula A: Estimated Emissions = (100% - Control Efficiency (%)) 100% X Uncontrolled Emissions					

Enviro Impad	onmental et		(26)					
Those 6	emissions indica	ited in Item 9 may a	t times under r	normal opera	iting c	onditions cause (che	eck all that apply):	
	Odors	Eye Irritation	ons	Pro	perty	Damage	Health Effec	ots
	ther nuisanc	es outside of pl	ant property	1		✓ No enviro	nmental damage	
Emiss Data	sion Point	al a						
G	• .	ission point) above above sea level at	_	20 657 0.25	Ft. Ft. Ft.	Volume of gas disc Gas exit temperate	charged into atmosphere: ure:	216 cfm ambient °F
Ave. (Time	Operating							
	aily: <u>24</u>	hours	Weekly:	7		Days	Yearly: <u>52</u>	Weeks
		m familiar with the c st of my knowledge.		cerning this	equipr	nent and that the info	ormation provided on this a page. Company Official	application is tru
	*					Environmental	Engineer Title	
							Date	

AIR POLLUTION CONTROL EQUIPMENT DATA - BAGHOUSE

FORM E102 01/2001

1.	Name of Company: Novonix Enterprise South, LI As shown on Line 1 of Form E001	J.C (NES)
2.	Name of Equipment: Electric Induction Crucible Fundamental As shown on Line 9 of Form E001	urnaces (G3a-Mk5) 1-30 60
3.	Equipment Data: Manufacturer of Baghouse: The Young Industries	s
	Model Number: <u>HW36-9</u>	Cost of Baghouse:
	Date of Manufacture:	Date of Installation: 1/1/26
	Pre-cleaning Equipment No Yes	es, what type (File appropriate form for control equipment)
	Volume of gas discharged from baghouse at dry stan	dard conditions: 60 dscfm
	Total cloth area of baghouse: 122	
	Air to cloth ratio: 1.50:1 Ft Min (Divid	e volume of gas discharged by total cloth area)
4.	Pressure Drop Across Baghouse:	2
	Stated by manufacturer: 2-4	
	Measured (actual):	
	Calculated: X (K Factor) Air to cloth ratio in fi	$=$ Inches of H_2O
	The recommended pressure drop range in inches	of H ₂ O is 1.5 (minimum) to 8.0 (maximum).
	If the measured or calculated pressure drop falls outside the t County Air Pollution Control Bureau.	recommended range, contact the Chattanooga-Hamilton
5.	Filter Data: Type of fabric filters used in baghouse: spun four	d 16 oz polyester ePTFE felt
	Operating temperature: 0-120 °F Manufacturer's Recommended	100 °F 225 °F Normal Maximum
	If the maximum operating temperature exceeds the recommen County Air Pollution Control Bureau.	ded operating temperature, contact the Chattanooga-Hamilton
6.	Baghouse Components:	
	Check all that apply. Flow rate instrumentation Inlet gas temp	erature instrumentation Evaporative Cooler
	Dew point indicator Differential pr	ressure instrumentation Other (Describe)
	Heat Exchanger Transmissome	High Pressure Gauge; Pulse Timer; Solenoid valves, Diaphragm valves
7.	Baghouse Operation:	
	Continuous	Intermittent Page 1 of 3

8.	Baghouse Description:
	Baghouse Inlet (dirty gas): Bottom Feed Top Feed
	Exterior Filtration Tangential
	Other (Describe):
	Does the baghouse have a wear-resistant plate?
	Baghouse shape: Rectangular Cubical Cylindrical
	Other (Describe):
	Baghouse volume: 11.63 Ft ³
	Baghouse dimensions: $\underbrace{\frac{3.20}{Length}}$ Ft $\underbrace{\frac{1.90}{Width}}$ Ft $\underbrace{\frac{1.90}{height}}$ Ft
	Baghouse shell material: Stainless Steel
8.	Bag Cleaning: (check one) Fabric Flexing Reverse Air Cleaning
	Mechanical Shaking & Rapping Reverse Jet
	Sonic Cleaning Reverse Flow
	Collapse Cleaning Manual Cleaning
	Pulse (pressure) – Jet Cleaning
_	
9.	Filter Configuration: Panels Multiple Tube Bag
	Circular Cross-Section Tube Other (Describe):
	Filter Fabric: Felted Woven Number of Compartments: 1
	Filter Area: 122 Ft ² Number of Filters per Compartment: 9
10.	Destal Circ Distribution in Missesse (c)
10,	Particle Size Distribution in Microns (μ): Particle Type(s): Synthetic graphite Moisture in gas stream: <5.00 %
	Size 0-5μ 5-10μ 10-20μ 20-44μ Greater than 44μ % by weight
	70 by Weight
11.	Dust Disposal: Automatic (screw conveyor, etc.) Manual (Describe): Blowdown and recycled
	How often are hoppers emptied? Every 12 hours
	Name of commercial disposal company (if applicable): Industrial Refuse Service
	I is disposed material wetted for transport?
	Is disposed material wetted for transport? Disposal Site:

Control Efficiency: Manufacturer's Stated Efficiency:	95.00	-99.90	<u></u> %
Required Efficiency:			<u></u> %
Operational Efficiency (performan	ce testing):		%
Size 0-5μ % by weight	5-10μ 10-20	μ 20-44μ	Greater than 44µ
Fan Data: No fan: air flow is from p Fan Location: Clean air s Fan Design (check one – A, B, or C):	ressurized argon/nitr ide (pull through)		(push through)
Fan Type:	Blade Type:		
A. Centrifugal (radial flow)	Forward Cu		
B. Axial-flow (propeller) Fan Properties:	Propeller	Tube Axia	al Vane Axial
Diameter: N/A Speed: N/A Volume: 30.00 Static Pressure: 4.00 Standard He Special Construction Materials: Bronze Alloys Zinc Chromate Primer	Multi	Braking Horsepower Inlet Area: Outlet Area: Motor Horsepower: itted copy of Manufacturer' rating Tables Stainless Steelers, Vinyls, or Epoxy (N/A Ft² N/A Ft² N/A HP S Yes No Bisonite
C. Compressor Po	sitive Displacement	Dynamic [Reciprocating
This is to certify that I am familiar with the ope application is true and complete to the best of n	rations concerning this eq sy knowledge. This form	uipment and that the inform must be completely filled or	ation provided on this ut before it will be processed.
Mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd., Suite 300	Company Official:	See signature page. Signa Snyironmental Enginee	
Chattanooga, TN 37421	Date: 2	/4/25	
	Do not write below th	is line.	
Engineer Approval Permit Number	er:		
Special Notations:			

ADSORBER SYSTEM APPLICATION
(This form must be accompanied by Form E001, E010, E011, E102, E103 or E104 if not already submitted for this equipment.)

FORM E108 07/2001

N	Novonix Enterprise South, LLC	(NES)		
		(As shown on Line I of Form E001)		
N	Iame of Equipment: Electric Induction Crucible Furnaces	G3a-Mk5) 1-366 O (As shown on Line 9 of Form E001)		
(Control Equipment Name: Iron oxide sulfur trap dry	scrubber (one active scrubber per furnace)		
,	From oxide sumur trap dry	scrubber (one active scrubber per turnace)		
	Control Equipment Data: Pollutant data provided pertains to inc	lividual scrubber		
	. Equipment Data:			
		p vessel), Chemical Products Industries (adsorbent material)		
	Model Number: A16-XXXMEC-XXXX	Cost of Equipment: \$32,000		
_	Date of Manufacture:	Date of Installation: 1/1/26		
1 -	 Pollutant Data: List of contaminants to be removed and the correspond 			
	Pollutant	Concentration (ppm at Standard Conditions)		
	H ₂ S	935 ppmvd		
	HCN	3.013 ppmvd		
	SO ₂	281.5 ppmvd		
	•	20210 554111		
	12			
	Carrier Gas Data:			
	a. The carrier gas is: Air Other (specify): inert	and the second s		
	b. Vapor concentration: Above Upper Explosiv	ve Limit Within Lower and Upper Explosive Limits*		
	Below Lower Explosi			
		mbient °F Pressure: Inches Hg		
	Moisture Content:	%		
	* If within the lower and upper explosive limits, explosi	on proof pumps, fans, etc. should be considered.		
	D. Emissions data determined by: X Stack Test (st	ibmit report) Calculation (submit copy)		
L				
Г	rocess Data:			
	a. Volume of gas to be treated: 36 CFM @ ST	р		
	. Velocity of gas to be treated: FPM @ ST			
	Duct diameter:			
I	Process Operation: X Continuous	☐ Intermittent ☐ Periodic		
E	. Operating Time: Daily: 24	Hours/day		
	Weekly: 7	Days/week		
	Yearly: 7	Weeks/year		

6.	Adsorption System Data:			
	A. The system is: Regenerative		X Non-regenerative	☒ Single Pass
	☐ Multi Pass	[Thin Bed	☐ Thick Bed
	B. Adsorbent data:		9	
	Activated Carbon – mesh size:			
	Hydrous Oxides (Specify): mesh	ı size:	_	
	Metallics (Specify): mesh size: _			
	X Other (Specify): mesh size: Iron	oxide		
	C. If adsorbent is to be chemically impregnated	to act		
	as a catalyst or chemsorbent, give details:			
7.	Adsorbent System Variables:			
- 69	A. Bed Depth:	48	Inches	Bed Area: _4.75 Ft ²
	B. Packing Density:	53	Lbs/ft³	<u>-4./5</u> 1.
	C. Total Charge per System:		Lbs	
	D. Temperature of Adsorbent:	973	°F	All adaptation regetions are mathematic aire an income
	D. Temperature of Adsorbent;	ambient	F	All adsorption reactions are exothermic – give maximum working temperature.
	E. Pressure Drop through Bed:	dinbiene	Inches Water	Inches Hg
	F. Capacity of Adsorbent:			ht adsorbent at working temperature and air contaminant
	r. Capacity of Adsorbeilt.		concentration,	u dasor beru di working temperature and dir contaminani
	G. Estimated Life of Adsorbent to Breakthrough:	672	hours	Submit supporting data from manufacturer,
	H. Air Flow Rate through Bed:	36	CFM	
	The same and the s		01111	
,	<u> </u>			
8.	Regenerative Systems: N/A			
ا	A. Number of Adsorbers in System:			
	-		(
	B. Time required for Regeneration Cycle:			
	C. If steam is used to regenerate, indicate the steam	n ratio to so	olvent:	ž.
	D. Capacity of Working Charge:			*
- 1	E. List all equipment to be used for recovery syste	tha *	0.	
- 1	E. List an equipment to be used for recovery syste	ш.		
	E. List an equipment to be used for recovery syste		-	
l	E. List an equipment to be used for recovery syste		<u> </u>	
9.	Control Efficiency:	ini.	-	
9.		an.		Efficiency %
9.	Control Efficiency:	dii.		
9.	Control Efficiency: Specify Pollutant H ₂ S			99.98
9.	Control Efficiency: Specify Pollutant H ₂ S HCN			99.98 99.96
9.	Control Efficiency: Specify Pollutant H ₂ S	JII.		99.98
9.	Control Efficiency: Specify Pollutant H ₂ S HCN	JII.		99.98 99.96
	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂		alication.	99.98 99.96
	Control Efficiency: Specify Pollutant H ₂ S HCN		lication.	99.98 99.96
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with	ith each app		99.98 99.96 92.36
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂	ith each app	nd that the information pr	99.98 99.96 92.36
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this	ith each app	nd that the information pr	99.98 99.96 92.36
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this	ith each app	nd that the information pr	99.98 99.96 92.36
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this	ith each app	nd that the information pr	99.98 99.96 92.36 rovided on this application is true and correct to the best of
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this sowledge. This form must be completely filled out before it will Mail to:	ith each app	nd that the information pr	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page.
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this to certify that I am familiar with the operations concerning this nowledge. This form must be completely filled out before it will Mail to: CHATTANOOGA-HAMILTON COUNTY	ith each app	nd that the information pr c. Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this to certify that I am familiar with the operations concerning this sowledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	ith each app	nd that the information pr c. Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page.
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this to certify that I am familiar with the operations concerning this toweledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300	ith each app	nd that the information pr Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature tle: Environmental Engineer
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this to certify that I am familiar with the operations concerning this sowledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU	ith each app	nd that the information pr Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this to certify that I am familiar with the operations concerning this toweledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300	ith each app	nd that the information pr Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature tle: Environmental Engineer
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this poweledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421	ith each app	nd that the information pr Company Offic Ti	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature tle: Environmental Engineer
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this poweledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421	ith each app	nd that the information pr Company Offic	99.98 99.96 92.36 rovided on this application is true and correct to the best of sial: See signature page. Signature tle: Environmental Engineer
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10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this powledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421	ith each app s equipment al	nd that the information pr Company Offic Ti	99.98 99.96 92.36 rovided on this application is true and correct to the best of ial: See signature page. Signature tle: Environmental Engineer ate: 2/4/25
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this powledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421	ith each app s equipment al	nd that the information process. Company Office Ti Di	99.98 99.96 92.36 rovided on this application is true and correct to the best of ial: See signature page. Signature tle: Environmental Engineer ate: 2/4/25
10.	Control Efficiency: Specify Pollutant H ₂ S HCN SO ₂ Drawings of all equipment should be submitted with the operations concerning this powledge. This form must be completely filled out before it will mail to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421	ith each app s equipment al	nd that the information process. Company Office Ti Di	99.98 99.96 92.36 rovided on this application is true and correct to the best of ial: See signature page. Signature tle: Environmental Engineer ate: 2/4/25

AFTERBURNER APPLICATION

(THERMAL AND CATALYTIC)

FORM E109 07/2001

. Na	me of Company:	Novonix Enterprise South, LLC (NES) (As shown on Line 1, Form E001)					
. Na	me of Equipment:	Electric Induction Crucible Furnaces (G3a-Mk5) 1-3060 (As shown on Line 10, Form E001)					
. Eq	uipment Data:						
	Name of Manufact	turer: TBD (cata	alytic oxidizer)		Model Nu	mber: TBD	
	Date of Manufactu	re: 2025	Da	te of Installation	n: <u>1/1/26</u>		
. En	nissions Data: See at	tached Table A-1.					
A.	Air Contaminant	Concentration (ppr	n or percent by	volume at stand	lard conditions)	— ₹	
	=						
	-						
B.	Inlet Gas Propertie Temperature:		um Minim	um Avera	ge °F		
	Pressure				In. H ₂ O		
	Moisture:				%		
	Gas Volume:			340	Ft ³		Z
	Gas Velocity	in Duct:			Ft/min.		
C.	This data was dete		Source Test (Su Other (Specify)		Estimaturer's Specification	ion (File Form ons	E106)
Aft	terburner Data:						
A.	■Thermal Afterb	urner					
	a. Check All Th ☐Multi		Gas-fired Mixing Plate	☐Oil-Fired ☐Other (Spe		-Mixing Premix	cing
		ng Temperature:	Maximum	Minimum		°F	
	Retentio			1		Sec	
	Gas Exit	Temerature:		l		°F	
	c. Heat Recover	ry Unit:	Yes 🔳	No			.;
В.	Catalytic Afterb	ourner					
	a. Describe Cata	alyst and Substrate:	TBD				
	b. Estimated Ca	talyst Life: TBD	Hrs	3			

6.	Afterburner Efficiency:		
0.	Atterburier Efficiency.		
	A. Stated by Manufacturer:	>99.00 %	
	B. Estimated (Attach Calc.):	%	
	C. Actual (Source Test-attach report):	%	
	(7.0	
9			
7.	Instrumentation Data:		
	Describe temperature sensory devices and t	heir operating parameters:	
8.	Auxiliary Fuel Data:		
	A. Type of Auxiliary Fuel: Natural C	200	
	A. Type of Auxiliary Fuel. Natural C	345	
	B. Auxiliary Fuel Usage: Maxin	num Minimum Average	See See
	642		Ft ³ /hr or gal/hr
9.	Submit drawings of all equipment with each	th application.	5 4
	This is to certify that I am familiar with the operations	concerning this equipment and that the inform	nation provided on this application is two
	and complete to the best of my knowledge. This form n	nust be completely filled out before it will be	acceptable.
,	500000000000000000000000000000000000000	7	
	Mail to:	Company Official:	See signature page.
	CHATTANOOGA-HAMILTON COUNTY		
	AIR POLLUTION CONTROL BUREAU	Title:	Environmental Engineer
	***** ** ***** **** ************	•••••••••••••••••••••••••••••••••••••••	
	Chattanooga, TN ••••••	Date:	2/4/25
ļ		_	
	no:	NOT WRITE BELOW THIS LINE	
	201	TOT WHITE DELOW THIS LINE	
	Engineer Approval This fo	orm corresponds to Permit Number:	
		~	
Spe	cial Notations:		
	8		