



GE VERNOVA

GE Vernova
1500 Jamike Avenue
Erlanger, KY 41048

February 2, 2026

Permit Review Branch
Kentucky Division for Air Quality
200 Fair Oaks Lane – 1st Floor
Frankfort, KY 40601

Permit Renewal Application
GE Vernova – Source ID # 21-015-00180

To Whom It May Concern:

GE Vernova (GE) operates a power plant equipment servicing center located at 1500 Jamike Avenue in Erlanger, Kentucky. The facility has been assigned an Agency Interest Number and Source ID of 49467 and 21-015-00180, respectively. Enclosed is an application to renew GE's operating permit (Permit F-21-002, issued August 9, 2021) which expires August 9, 2026. Please note that GE is not requesting any changes to its existing federally enforceable limits and has not implemented any changes which would increase emissions as a part of this renewal. Changes in potential to emit from the previous application reflect updates to the materials currently used at the facility, not a change to the operational capacity of equipment.

Facility-Wide Potential to Emit:

Pollutant	Potential (tpy)	Allowable (tpy)
PM	3.94	
VOC	123.55	20
Single Highest HAP	42.70	9
Total HAPs	124.25	20

We trust that the enclosed application is complete. If you have any questions, please do not hesitate to contact me at (513) 568-0936 or joseph.kraus@ge.com.

Sincerely,

GE Vernova
Joseph A. Kraus
Environmental, Health & Safety Leader

Enclosures: Potential to Emit Calculations, DEP Form 7007AI

Potential to Emit (tpy)						
Pollutant	EU1	EU2	EU3	EU4, EU5	Facility-Wide	Allowable
PM/PM ₁₀	1.59	0.25	2.09		3.94	
SO ₂					0.00	
NO _x					0.00	
CO					0.00	
VOC	122.75			0.80	123.55	20*
Hazardous Air Pollutants (HAPS)						
Toluene	8.12				8.12	9**
Xylene	42.70				42.70	9**
Dibutyl Phthalate					0.00	9**
Ethyl Benzene	2.86				2.86	9**
Chromium-VI		0.00			0.00	9**
Chromium		0.027			0.03	9**
Cobalt		0.000011			0.00	9**
Copper		0.001			0.00	9**
Manganese		0.012			0.01	9**
Nickel		0.034			0.03	9**
Lead		0.000			0.00	9**
Combined HAPs	122.75	0.07		0.00	122.83	20**

*Limitation to preclude 401 KAR 59:225

**Limitation pursuant to 401 KAR 52:030



Purpose

Calculate the potential to emit (PTE) from the paint booth at the GE Vernova (GEV) facility in Erlanger, KY.

Description

GEV operates one (1) paint booth equipped with a high volume low pressure (HVLP) spray gun and dry filters to control PM/PM10/PM2.5 emissions with a control efficiency of 95%.

Method

Potential to emit is calculated using worst-case HAP and VOC contents from coatings currently used at the facility. Maximum daily coating usage is based on spray gun capacity. Xylene is used as a cleaning solvent.

Data	Value	UOM	Basis
A Maximum Coating Throughput	4.69 gal/hr		Spray gun capacity.
B Coating VOC Content	5.24 lb/gal		SDS
C Coating Xylene Content	1.35 lb/gal		SDS
D Coating Combined HAP Content	5.24 lb/gal		SDS
E Maximum Thinner Use	0.47 gal/hr		Facility information.
F Thinner Density (100% Xylene)	7.15 lb/gal		SDS
G Maximum Coating Solids Content	6.20 lb/gal		Facility information.
H Annual Hours of Operation	8760 hr/yr		Reference information.
J Conversion Factor	2,000 lb/ton		Reference information.
K Transfer Efficiency	75%		Current permit, statement of basis
L PM Control Efficiency	95%		Current permit
M Maximum Cleaning Solvent Use	0.25 lb/day		Facility information.
N Cleaning Solvent Density (100% Xylene)	7.15 lb/gal		SDS

Calculations

P Coating VOC Emissions	24.60 lb VOC/hr 107.74 ton VOC/yr	A x B P x H / J
Q Coating PM Emissions	7.27 lb solids/hr	A x G x (1 - K)
R	0.36 controlled lb PM/hr 1.59 controlled ton PM/yr	Q x (1 - L) R x H / J
S Coating Xylene Emissions	6.32 lb Xylene/hr 27.68 ton Xylene/yr	A x C S x H / J
T Coating Combined HAP Emissions	24.60 lb HAPs/hr 107.74 ton HAPs/yr	A x D T x H / J
U Thinner VOC Emissions	3.35 lb VOC/hr 14.69 ton VOC/yr	E x F U x H / J
V Thinner Xylene Emissions	3.35 lb Xylene/hr 14.69 ton Xylene/yr	E x F V x H / J



W Thinner Combined HAP Emissions	3.35 lb HAPs/hr 14.69 ton HAPs/yr	E x F W x H / J
X Cleaning Solvent VOC Emissions	1.79 lb VOC/day 0.33 ton VOC/yr	M x N X x 365 / G
Y Cleaning Solvent Xylene Emissions	1.79 lb Xylene/day 0.33 ton Xylene/yr	M x N Y x 365 / G
Z Cleaning Solvent Combined HAP Emissions	1.79 lb HAPs/day 0.33 ton HAPs/yr	M x N Z x 365 / G

Purpose

Calculate the potential to emit (PTE) from welding and metal cutting operations at the GE Vernova (GEV) facility in Erlanger, KY.

Description

GEV operates eight (8) welding machines and one (1) plasma metal cutting & welding table with dust collectors to control PM/PM10/PM2.5 emissions with a control efficiency of 99%.

Method

Potential to emit for welding is calculated using worst case emission factors for weld wire used on site from AP-42 Section 12.19, Electric Arc Welding, Tables 1 & 2. Maximum throughput estimate is from the Kentucky Emissions Inventory System. Plasma cutting PTE is calculated using factors from "Emission of Fume, Nitrogen Oxides and Noise in Plasma Cutting of Stainless and Mild Steel" by Broman B. et al, The Swedish Institute of Production Engineering Research, ITW Document 1E-174-93, March 1994 (<http://www.epa.gov/ttnchie1/efdocs/welding.pdf>)

Data	Value	UOM	Basis
A Number of Welders:	8 units		Facility Information
B Maximum Weld Wire Throughput:	30 lb/hr/unit		KYEIS
C Maximum Weld Wire Throughput:	240 lb/hr		Calculated from above.
D Control Efficiency:	99%		Current Permit.
E Plasma Cutting Speed:	900 in/hr		Facility Information
F Metal Thickness:	0.5 in		Facility Information
G Width of Cut:	0.34 in		Facility Information
H Metal Density:	0.28 lb/in ³		Reference information.
J Fume Generation:	5%		Facility Information
K Hours of Operation:	8760 hrs/yr		
L Conversion Factor:	2,000 lb/ton		Reference information.
M Control Efficiency:	99%		Current Permit.

Calculations

Potential to Emit, Eight (8) Welding Machines			
Pollutant	Emission Factor	Emission Rate	PTE
		A x B x EF x (1-D)	ER x K / L
	lbs/1,000 lbs	lbs/hr	ton/yr
PM2.5/PM10	15.100	3.62E-02	1.59E-01
Cr-VI	0.000	0.00E+00	0.00E+00
Cr	0.004	9.60E-06	4.20E-05
Co	0.001	2.40E-06	1.05E-05
Mn	0.891	2.14E-03	9.37E-03
Ni	0.005	1.20E-05	5.26E-05
Pb	0.000	0.00E+00	0.00E+00

Emission Factors (EF) from AP-42 Section 12.19, Electric Arc Welding, Tables 1 & 2.

N Plasma Cutting Emission Factor	0.002 lb PM/in	F x G x H x J
P Plasma Cutting PM Emissions	0.022 controlled lb PM/hr	E x N x (1 - M)
	0.095 controlled ton PM/yr	P x K / L



Potential to Emit, Plasma Cutting HAPs			
Pollutant	Concentration	Emission Rate	PTE
		P x Conc.	ER x K / L
	wt%	lbs/hr	ton/yr
Cr	28%	6.06E-03	2.65E-02
Cu	1%	2.16E-04	9.48E-04
Mn	3%	6.49E-04	2.84E-03
Ni	36%	7.79E-03	3.41E-02
Total HAPs	68%	1.47E-02	6.45E-02

Concentration data from previous TRI reports, originally obtained from MatWeb

Purpose

Calculate the potential to emit (PTE) from the abrasive blast units at the GE Vernova (GEV) facility in Erlanger, KY.

Description

GEV operates five (5) abrasive blast units:

- Clemco abrasive blasting room/tent with modular dust collector, control efficiency 95% (2006)
- Empire abrasive blaster with dust collector, control efficiency 99% (2018)
- Wheelabrator roto blaster with dust collector, control efficiency 99.9% (2017)
- Clemco SB-2 blast room with dust collector, control efficiency 99% (2021)
- Econoline/Eastwood SB-3 blast cabinet with dust collector, control efficiency 99% (2021)

Method

Potential to emit is calculated using emission factors (EF) for open blasting, and media-type adjustment factors, from AP-42, Chapter 13.2.6.

Data	Clemco	Empire	Wheelabrator	Clemco	Econoline	UOM	Basis
A, Abrasive Usage Rate:	1,052	238	78,960	1,856	1,052	lb/hr	Facility Information.
B, Recovery Rate:	50%	90%	90%	50%	90%		Facility Information.
C, Adjustment Factor:	24%	100%	10%	100%	100%		AP-42, 13.2.6.3, 9/97
C x EF, Emission Factor, PM:	6.48	27	2.7	27	27	lb/1000 lbs	AP-42, Table 13.2.6-1, 9/97
C x EF, Emission Factor, PM10:	3.12	13	1.3	13	13	lb/1000 lbs	AP-42, Table 13.2.6-1, 9/97
C x EF, Emission Factor, PM2.5:	0.312	1.3	0.13	1.3	1.3	lb/1000 lbs	AP-42, Table 13.2.6-1, 9/97
D, Control Efficiency:	95%	99%	99.9%	99%	99%		Permit description.

Calculations

Annual Potential to Emit, ton/yr						
Pollutant	Clemco	Empire	Wheelabrator	Clemco	Econoline	Basis
PM	0.75	0.03	0.09	1.10	0.12	A x (1-B) x 8760 / 1000 x C x EF x (1-D)
PM10	0.36	0.01	0.04	0.53	0.06	A x (1-B) x 8760 / 1000 x C x EF x (1-D)
PM2.5	0.04	0.00	0.00	0.05	0.01	A x (1-B) x 8760 / 1000 x C x EF x (1-D)



Purpose

Calculate the potential to emit (PTE) from the parts washers at the GE Vernova (GEV) facility in Erlanger, KY.

Description

GEV operates two (2) parts washers (40 and 80 gallons), which use Safety-Kleen solvent.

Method

Potential to emit is calculated using material properties from the solvent SDS and assuming quarterly changeouts performed by Safety-Kleen and assuming that half of the solvent is emitted.

Data		Value	UOM	Basis
A	Number of Units	2		Facility Information
B	Specific gravity	0.8		SDS
C	Density	6.67 lb/gal		SDS
D	Total Volume	120 gal		Facility Information
E	Solvent Recovered	50%		Engineering Judgement.
F	VOC Content	100%		SDS
G	HAP Content	0%		SDS
H	Changeout frequency	4 per year		Facility Information

Calculations

VOC Emissions	1,601	lbs/yr	H x F x (1 - E) x D x C
	0.80	tpy	
HAP Emissions	0.00	lbs/yr	VOC Emissions x G
	0.00	tpy	

Division for Air Quality

300 Sower Boulevard
Frankfort, KY 40601
(502) 564-3999

DEP7007AI**Administrative Information**

- ☐ Section AI.1: Source Information
☐ Section AI.2: Applicant Information
☐ Section AI.3: Owner Information
☐ Section AI.4: Type of Application
☐ Section AI.5: Other Required Information
☐ Section AI.6: Signature Block
☐ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

☐ Additional Documentation attached

Source Name: GE Vernova

KY EIS (AFS) #: 21- 015-00180

Permit #: F-21-002

Agency Interest (AI) ID: 49467

Date: 1/27/2026

Section AI.1: Source Information

Physical Location	Street:	<u>1500 Jamike Avenue</u>		
Address:	City:	<u>Erlanger</u>	County:	<u>Boone</u>
			Zip Code:	<u>41018</u>
	Street or	<u>Same as above</u>		
Mailing Address:	P.O. Box:			
	City:		State:	
			Zip Code:	

Standard Coordinates for Source Physical Location

Longitude: -84.63059 (decimal degrees) **Latitude:** 39.045029 (decimal degrees)

Primary (NAICS) Category: Power Boiler and Heat Exchanger Manufacturing **Primary NAICS #:** 332410

Classification (SIC) Category:

Fabricated Plate Work and Boiler Shops

Primary SIC #: 3443**Briefly discuss the type of business conducted at this site:**

GE Vernova operates a power plant equipment servicing center. The activities at the service center include metal fabrication, machining operation, surface coating and welding. The potential sources of air emissions at the facility are a paint booth, part washers, and miscellaneous welding and plasma cutting activities.

Description of Area Surrounding Source:
☐ Rural Area☒ Industrial Park☐ Residential Area☐ Urban Area☐ Industrial Area☐ Commercial Area
Is any part of the source located on federal land?
☐ Yes☐ No
Number of Employees:

58

Approximate distance to nearest residence or commercial property:

163 feet

Property Area:

16.53

Is this source portable? ☐ Yes ☒ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?
NPDES/KPDES:☒ Currently Hold☐ Need☐ N/A**Solid Waste:**☐ Currently Hold☐ Need☒ N/A**RCRA:**☐ Currently Hold☐ Need☒ N/A**UST:**☐ Currently Hold☐ Need☒ N/A
Type of Regulated Waste Activity:
☐ Mixed Waste Generator☐ Generator☐ Recycler☐ Other: _____☐ U.S. Importer of Hazardous Waste☐ Transporter☐ Treatment/Storage/Disposal Facility☒ N/A

Section AI.2: Applicant Information

Applicant Name: GE Vernova

Title: (if individual) _____

Mailing Address: **Street or P.O. Box:** 1500 Jamike Avenue

City: Erlanger **State:** KY **Zip Code:** 41048

Email: (if individual) _____

Phone: (859) 488-0920

Technical Contact

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

Air Permit Contact for Source

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

Section AI.3: Owner Information☐ **Owner same as applicant****Name:** GE Vernova**Title:** _____

Mailing Address: **Street or P.O. Box:** 58 Charles Street
City: Cambridge **State:** MA **Zip Code:** 02141

Email: _____**Phone:** (773) 299-6600**List names of owners and officers of the company who have an interest in the company of 5% or more.****Name****Position**

Section AI.4: Type of Application

Current Status:	☐ Title V	☒ Conditional Major	☐ State-Origin	☐ General Permit	☐ Registration	☐ None
Requested Action: (check all that apply)	☐ Name Change	☐ Initial Registration	☐ Significant Revision	☐ Administrative Permit Amendment		
	☒ Renewal Permit	☐ Revised Registration	☐ Minor Revision	☐ Initial Source-wide Operating Permit		
	☐ 502(b)(10) Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice		
	☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☐ Modification of Existing Facilities		
	☐ Ownership Change	☐ Closure				
Requested Status:	☐ Title V	☒ Conditional Major	☐ State-Origin	☐ PSD	☐ NSR	☐ Other: _____

Is the source requesting a limitation of potential emissions?

☒ Yes

☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☐ Particulate Matter	*	☐ Single HAP	*
☐ Volatile Organic Compounds (VOC)	*	☐ Combined HAPs	*
☐ Carbon Monoxide	*	☐ Air Toxics (40 CFR 68, Subpart F)	*
☐ Nitrogen Oxides	*	☐ Carbon Dioxide	*
☐ Sulfur Dioxide	*	☐ Greenhouse Gases (GHG)	*
☐ Lead	*	☐ Other	*maintain all existing limits

For New Construction:

Proposed Start Date of Construction:
(MM/YYYY)

Proposed Operation Start-Up Date: (MM/YYYY)

For Modifications:

Proposed Start Date of Modification:
(MM/YYYY)

Proposed Operation Start-Up Date: (MM/YYYY)

Applicant is seeking coverage under a permit shield.

☐ Yes

☒ No

Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.

Section AI.5 Other Required Information

Indicate the documents attached as part of this application:

- | | |
|--|--|
| ☐ DEP7007A Indirect Heat Exchangers and Turbines | ☐ DEP7007CC Compliance Certification |
| ☐ DEP7007B Manufacturing or Processing Operations | ☐ DEP7007DD Insignificant Activities |
| ☐ DEP7007C Incinerators and Waste Burners | ☐ DEP7007EE Internal Combustion Engines |
| ☐ DEP7007F Episode Standby Plan | ☐ DEP7007FF Secondary Aluminum Processing |
| ☐ DEP7007J Volatile Liquid Storage | ☐ DEP7007GG Control Equipment |
| ☐ DEP7007K Surface Coating or Printing Operations | ☐ DEP7007HH Haul Roads |
| ☐ DEP7007L Mineral Processes | ☐ Confidentiality Claim |
| ☐ DEP7007M Metal Cleaning Degreasers | ☐ Ownership Change Form |
| ☐ DEP7007N Source Emissions Profile | ☐ Secretary of State Certificate |
| ☐ DEP7007P Perchloroethylene Dry Cleaning Systems | ☐ Flowcharts or diagrams depicting process |
| ☐ DEP7007R Emission Offset Credit | ☐ Digital Line Graphs (DLG) files of buildings, roads, etc. |
| ☐ DEP7007S Service Stations | ☐ Site Map |
| ☐ DEP7007T Metal Plating and Surface Treatment Operations | ☐ Map or drawing depicting location of facility |
| ☐ DEP7007V Applicable Requirements and Compliance Activities | ☐ Safety Data Sheet (SDS) |
| ☐ DEP7007Y Good Engineering Practice and Stack Height Determination | ☐ Emergency Response Plan |
| ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units | ☐ Other: _____ |
| ☐ DEP7007BB Certified Progress Report | |

Section AI.6: Signature Block

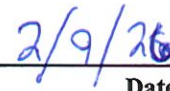
I, the undersigned, hereby certify under penalty of law, that I am a responsible official*, and that I have personally examined, and am familiar with, the information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the information is on knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false or incomplete information, including the possibility of fine or imprisonment.



Authorized Signature

Josh Moats

Type or Printed Name of Signatory



Date

Site Leader

Title of Signatory

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations