

MARYLAND DEPARTMENT OF THE ENVIRONMENT

**AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT**

DOCKET #10-25

COMPANY: Wylie Funeral Homes, P.A.

LOCATION: 9200-9206 Liberty Road
Randallstown, MD 21133

APPLICATION: One (1) Matthews Environmental Solutions Power Pak II Plus Human
Crematory rated at 175 lbs per hour

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Application and Informational Meeting
2	Environmental Justice (EJ) Information – MDEnviroScreen Report
3	Zoning Approval
4	Permit to Construct Application Forms - Form 5 - Form 5EP - Form 5T - Emissions calculations - Property maps - Manufacturer information

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION**

NOTICE OF APPLICATION AND INFORMATIONAL MEETING

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Wylie Funeral Homes, P.A. on June 12, 2025 for the installation of one (1) Matthew Environmental Solutions Power Pak II Plus Human Crematory rated at 175 lbs/hr. The proposed installation will be located at 9200-9206 Liberty Road, Randallstown, MD 21133.

In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the project is located. The EJ Score, expressed as a statewide percentile, was shown to be 34.5. This score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution.

Copies of the application and other supporting documents are available for public inspection on the Department's website:

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx>

Any applicant-provided information regarding a description of the indicators contributing to the EJ score can also be found at the listed website. Such information has not yet been reviewed by the Department. A review of the submitted information will be conducted when the Department undertakes its technical review of all documents included in the application.

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, an Informational Meeting has been scheduled so that citizens can discuss the application and the permit review process with the applicant and the Department.

The Informational Meeting will be held in-person on November 20, 2025 from 6:30 PM to 8:00 PM at the Randallstown Branch of the Baltimore County Public Library located at 8604 Liberty Road, Randallstown, MD 21133. You may also participate in the meeting virtually. Please register to attend using the following link:

<https://forms.gle/Y4UqtocfzQPfaEULA>

Registered attendees will receive instructions on how to join virtually using your computer or telephone.

The Department will provide language translation services and/or an interpreter for deaf and hearing impaired persons provided that a request is made for such service at least five (5) days prior to the meeting. Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

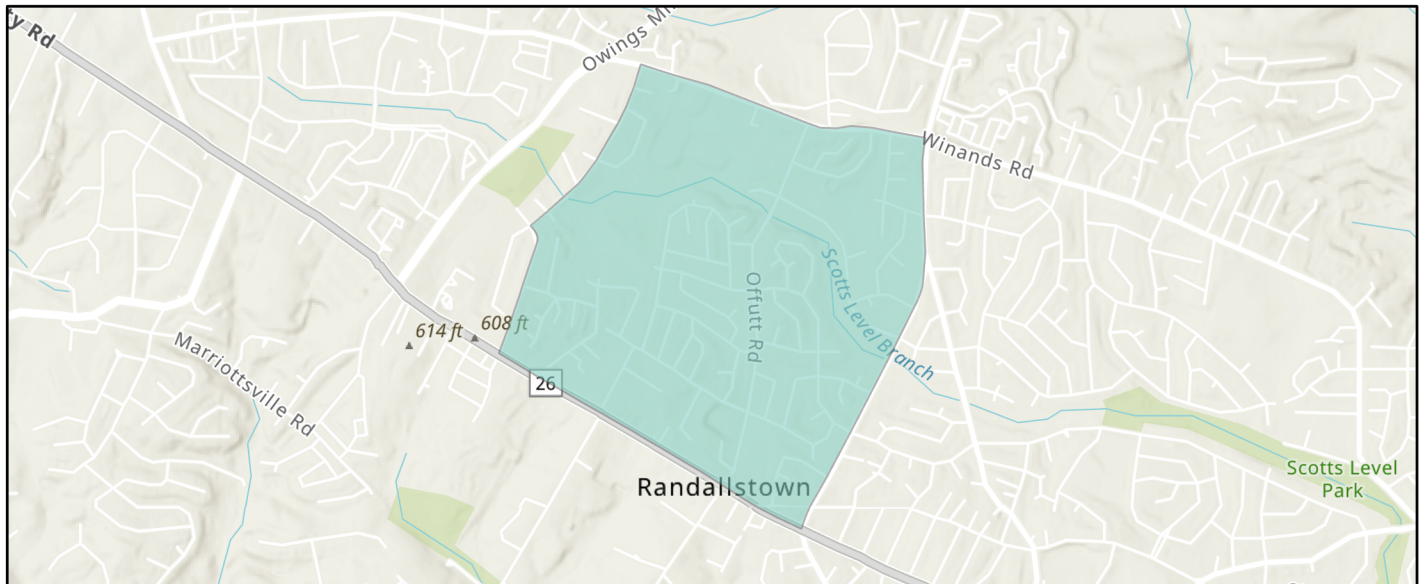
Christopher R. Hoagland, Director
Air and Radiation Administration



MDEnviroScreen Report

Census Tract ID: 24005402506

County: Baltimore



MDEnviroScreen Summary

EJ Score: 34.5

Overburdened Community: Yes

Underserved Community: Yes

MDEnviroScreen EJ Score Indicators

Pollution Burden Exposure		Pollution Environmental Effect		Sensitive Population	
<u>Indicator</u>	<u>Percentile</u>	<u>Indicator</u>	<u>Percentile</u>	<u>Indicator</u>	<u>Percentile</u>
PM 2.5	88.9	Lead Paint	44.3	Low Birth Weight	50
Ozone	65.4	RMP Facility	0	Asthma Discharge	81.4
Diesel PM	30.3	Superfund	0	Myocardial Infarction	86.2
Cancer Risk	9.5	Hazardous Waste	18.8	Lack of Broadband	53.2
Respiratory Hazard	2.9	Wastewater	10.6	Low Income*	30.7
Traffic	40.5	Brownfield	11.4		
Toxic Release	31	Power Plant	0		
Hazardous Landfill	0	CAFO	0		
		Mining	63.3		

*The MDEnviroScreen EJ score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution. The EJ score in MDEnviroScreen does not include data from every available map layer. For example, it does not include race/ethnicity or age, however, MDE has made that information available for informational purposes only. Collecting and displaying this data allows users to evaluate the relationships between demographics and pollution burden, and can be used to better understand issues related to environmental justice and racial equity in Maryland. MDE cautions users against using the "Underserved" map layer, or its subcategories, in any manner that would be considered discriminatory under applicable law.



Air Quality Permits Program
Maryland Department of the Environment
Air and Radiation Administration
1800 Washington Boulevard
Baltimore, MD 21230

June 12, 2025

Subject: Application for Air Quality General Permit to Construct – Matthews Environmental Solutions Power Pak II Plus Cremator

To Whom It May Concern,

Wylie Funeral Homes PA is pleased to submit the enclosed Air Quality General Permit to Construct Application Package for the installation of a crematorium unit at the following location:

9200–9206 Liberty Road
Randallstown, Maryland 21133

The proposed equipment is a Matthews Environmental Solutions Power Pak II Plus, Model IE43-PPII Plus Cremator.

Should you have any questions or require additional information to process this application, please do not hesitate to contact me directly at (410) 984 4180 or bwylie@wyliefh.com. Alternatively, you may reach out to Dr. Mark Gibson at KCI Technologies Inc. via (240) 517-1451 or mark.gibson@kci.com.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Wylie", is written over a light blue, stylized graphic element that resembles a large, abstract letter 'W' or a series of overlapping curves.

Brandon M. Wylie, CFSP, MBA
Wylie Funeral Homes, PA
9200 Liberty Rd Randallstown, Md 21133
410-984-4180 cell
410-655-9200 office
bwylie@wyliefh.com

Remarkable service. Exceptional funeral homes.



AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	WYLIE FUNERAL HOMES PA
COMPANY ADDRESS:	9200 9206 LIBERTY ROAD, RANDALLSTOWN, 21133 MARYLAND
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	WYLIE FUNERAL HOMES PA
PREMISES ADDRESS:	9200 9206 LIBERTY ROAD, RANDALLSTOWN, 21133 MARYLAND
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Mr. BRANDON M. WYLIE
JOB TITLE:	PRESIDENT/CEO
PHONE NUMBER:	(410) 984-4180
EMAIL ADDRESS:	bwylie@wyliefh.com
DESCRIPTION OF EQUIPMENT OR PROCESS	
THE ADDITION OF A CREMATORIUM AT THE ABOVE LOCATION	

Application is hereby made to the Department of the Environment for a Permit to Construct for the following equipment or process as required by the State of Maryland Air Quality Regulation, COMAR 26.11.02.09.

Check each item that you have submitted as part of your application package.

- ☒ Application package cover letter describing the proposed project
- ☒ Complete application forms (Note the number of forms included or NA if not applicable.)

No. <u>1</u>	Form 5	No. <u>NA</u>	Form 11
No. <u>1</u>	Form 5T	No. <u>NA</u>	Form 41
No. <u>1</u>	Form 5EP	No. <u>NA</u>	Form 42
No. <u>NA</u>	Form 6	No. <u>NA</u>	Form 44
No. <u>NA</u>	Form 10		
- ☒ Vendor/manufacturer specifications/guarantees
- ☒ Evidence of Workman's Compensation Insurance
- ☒ Process flow diagrams with emission points
- ☒ Site plan including the location of the proposed source and property boundary
- ☒ Material balance data and all emissions calculations
- ☐ Material Safety Data Sheets (MSDS) or equivalent information for materials processed and manufactured.
- ☐ Certificate of Public Convenience and Necessity (CPCN) waiver documentation from the Public Service Commission ⁽¹⁾
- ☒ Documentation that the proposed installation complies with local zoning and land use requirements ⁽²⁾

⁽¹⁾ Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.

⁽²⁾ Required for applications subject to Expanded Public Participation Requirements.

ATTACHMENT A

**ZONING APPROVAL LETTER FOR A CREMATORIUM ADDITION
TO WYLIE FUNERAL HOMES PA
9200 9206 LIBERTY ROAD, RANDALLSTOWN, 21133 MARYLAND**



KATHERINE A. KLAUSMEIER
County Executive

MAUREEN E. MURPHY
Chief Administrative Law Judge
ANDREW M. BELT
Administrative Law Judge
DEREK J. BAUMGARDNER
Administrative Law Judge

April 15, 2025

Jennifer Busse, Esquire – jbusse@rosenbergmartin.com
Adam Baker, Esquire – abaker@rosenbergmartin.com
Rosenberg Martin Greenberg, LLP
25 S. Charles Street, 21st Floor
Baltimore, MD 21201

RE: MOTION FOR RECONSIDERATION

Case No. 2024-0161-SPHXA

Property: 9200 9206 Liberty Road

Dear Counsel:

Enclosed please find a copy of the decision rendered in the above-captioned matter.

Pursuant to Baltimore County Code § 32-3-401(a), “a person aggrieved or feeling aggrieved” by this Decision and Order may file an appeal to the County Board of Appeals within thirty (30) days of the date of this Order. For further information on filing an appeal, please contact the Office of Administrative Hearings at 410-887-3868.

Sincerely,

A handwritten signature in black ink that reads "Maureen E. Murphy".

MAUREEN E. MURPHY
Chief Administrative Law Judge
for Baltimore County

MEM:dlm
c: -See Next Page-

C:	Brandon Wylie	bwylie@wyliefh.com
	AC	amina.calland@gmail.com
	Al Barnes	al21133@yahoo.com
	Alisha M. Helphenstine	ahelphenstine@baltimorecountymd.gov
	Andrew G.	andrewglick14@gmail.com
	Anthony	abrayboy57@yahoo.com
	Beverly Anne Williams	tosca1992@outlook.com
	Beverly James	brj19883@gmail.com
	Brianna Dorsey	executive.director@grcdo.org
	Carolyn Samuels	samuels86@hotmail.com
	Chan	parlia35@msn.com
	Chrissandra Caldwell	ccaldwell@baltimorecountymd.gov
	Danny Blount	dannyblount@verizon.net
	Des	brayboydestiny@gmail.com
	Eardene Porter	peardene@gmail.com
	Emily Jolicoeur	ejolicoeur@baltimorecountymd.gov
	Emmanuel Jato	jatomunki@gmail.com
	G	anotheraccounttoremember@yahoo.com
	India Artis	indiaaartis@gmail.com
	Jacqueline Massey	masseyx4@aol.com
	James J Simmons	bobbii@msn.com
	Janet	jamaxand@aol.com
	John Sakal	johnsakal@hotmail.com
	Joyce Wilson	joycewilson9314@comcast.net
	K. Thompson	karen.thompson26@gmail.com
	Katia	katiamhaney@gmail.com
	Kim Green	kbgreen22@verizon.net
	Linda Dorsey-Walker	lrwalk4@aol.com
	Luke Hasemeier	hazzlebanger@yahoo.com
	Michelle H. Huggins	mhuggins@towson.edu
	Nan Sherman	nan@jobsinpjs.com
	Natasha Gordon	natasha.gordon@me.com
	Nikki Lawson	nikki.d.dickerson@gmail.com
	Pearl Kirby	pt.kirby603@hotmail.com
	Rachel De Four	rdefour5@verizon.net
	Rebecca Wheatley	rwheatley@baltimorecountymd.gov
	Robin	radavidson06@gmail.com
	Sandy Parobeck	rome4101@gmail.com
	Sheila Lewis	msheather12@hotmail.com

Shirley Nelson	care0113@hotmail.com
Shirley Supik	epsafehousesupik@verizon.net
Smallwood, Suzanne	suzanne.smallwood@umm.edu
Steve Silfen	foodman22451@msn.com
Tasha Moore	tasha.moore00@comcast.net
Tim Bundy	timothy.bundy@hotmail.com
Yolanda Gregory	ygregory@baltimorecountymd.gov
Zelda Marshall	zeldastyle1@yahoo.com
Ccaldwell	ccaldwell@baltimorecountymd.gov
joan	joan.whitemccain@lpl.com
kelvet talley	wellkept79@verizon.net
kelvet talley	wellkept79@verizon.net
tee	tashiya705@gmail.com
Watson	jejonesjr@comcast.net

IN RE: PETITIONS FOR SPECIAL HEARING,	*	BEFORE THE
SPECIAL EXCEPTION & VARIANCE		
9200 and 9206 Liberty Road	*	OFFICE OF
2 nd Election District		
4 th Council District	*	ADMINISTRATIVE HEARINGS
FAS, LLC		
<i>Legal Owner</i>	*	FOR BALTIMORE COUNTY
Petitioner	*	Case No. 2024-0161-SPHXA
* * * * *	* *	

ORDER ON MOTION FOR RECONSIDERATION

Now pending is a Motion for Reconsideration filed by People’s Counsel on April 1, 2025, on the March 17, 2025 Opinion and Order issued in the above-captioned case. On April 10, 2025, Petitioner filed a Response to that Motion.

In the Motion, People’s Counsel takes issue with the finding that the crematory or crematorium use proposed is a type of ‘funeral establishment’ and as such, would be permitted by Special Exception as a principal use in both the RO and DR 5.5. In support of that position, People’s Counsel looks to the definition of ‘funeral home’ from the most recent edition of Webster’s Third New International Dictionary of the English Language Unabridged which reads as follows:

funeral home or funeral parlor

: an establishment with facilities for the preparation of the dead for burial or **cremation**, for the viewing of the body, and for funerals

By its unambiguous language, that definition unequivocally supports the finding that a crematorium is a type of funeral establishment. The County Council, by specifically instructing that all undefined words have the meanings in Webster’s Third New International Dictionary, has

authorized the Office of Administrative Hearing (“OAH”) to interpret the Baltimore County Zoning Regulations (“BCZR”) uses and to make that finding. As importantly, People’s Counsel reliance on the Zoning Commissioner’s Policy Manual (“ZCPM”) directive - that a crematorium as a principal use can be sought through a Special Hearing – only lends further support for OAH’s authority to interpret the BCZR and make a finding of principal use. Indeed, in this Case, the Petitioner did file a Petition for Special Hearing to ‘amend the prior approval granted in Case No. 2002-0174-XA, to permit the expansion of an existing and previously approved funeral establishment to include a crematorium,’ along with a catch-all general request for Special Hearing relief, as the OAH shall direct. Lastly, as to People’s Counsel’s argument that funeral establishments cannot be located on adjoining properties, BCZR has no such prohibition (unlike the prohibition of two (2) Assisted Living Facilities (“ALF”) located within 1,000 ft of one another; See BCZR, §432A.1.A.3).

Nonetheless, the Motion will be granted, but for a different reason. In the Response to Motion for Reconsideration, Petitioner asserts (for the first time), that 9200 and 9206 Liberty Rd. will be merged for zoning purposes as part of the development process. While there was evidence that parking lots crossed the Property lines, and that Petitioner was using 9206 Liberty Rd. as office space in support of the use at 9200 Liberty Rd., it was not made clear (until now) that the lots would be consolidated into a single property.

Borrowing the language from MD Rule 2-534, and in the interests of judicial economy considering the potential for a *de novo* appeal, after entry of judgment, a decision can be altered, to amend the findings or the statement of reasons for a decision. As a result, I find that the crematorium use will be an accessory use to the existing funeral home conditioned upon the merger or consolidation of 9200 and 9206 Liberty Rd. in the development process. Toward that end, the

Motion for Reconsideration will be granted, and the Opinion and Order will be amended to grant the Special Hearing relief and the Special Exception relief as set forth herein.

THEREFORE, IT IS ORDERED this 15th day of **April, 2025**, by this Administrative Law Judge that, for the reasons set forth herein, People's Counsel's Motion for Reconsideration be, and it is hereby **GRANTED**; and

IT IS FURTHER ORDERED that, the Petition for Special Exception pursuant to BCZR, §1B01.1.C.9 (DR 5.5) and from BCZR, §204.3.B.1 (RO) to permit a crematorium as a funeral establishment as an accessory use at 9206 Liberty Rd., be, and it is hereby **GRANTED**, and;

IT IS FURTHER ORDERED that, pursuant to BCZR, §502.3, the Special Exception is valid for a period of five (5) years from the date of this Order, and;

IT IS FURTHER ORDERED that the Petition for Special Hearing filed from BCZR §500.7 to amend the prior approval granted in Case No. 2002-0174-XA to permit the expansion of an existing and previously approved funeral establishment at 9200 Liberty Rd. to include a crematorium be, and it is hereby **GRANTED**; and

IT IS FURTHER ORDERED, that the Petition for Variance pursuant to BCZR §1B01.1.B.1.c(2) to permit a Residential Transition Area ("RTA") vegetative buffer and parking setback of 12-15 ft. on the western side yard, and 11 ft on the north eastern rear yard, in lieu of the otherwise required 50 ft for the vegetative buffer and 75 ft for the parking lot setback be, and they are each hereby, **GRANTED**.

The relief granted herein shall be subject to the following:

1. Petitioner may apply for necessary permits and/or licenses upon receipt of this Order. However, Petitioner is hereby made aware that proceeding at this time is at their own risk until 30 days from the date hereof, during which time an appeal can be filed by any party. If for whatever reason this Order is reversed, Petitioner would be required to return the subject property to its original condition.

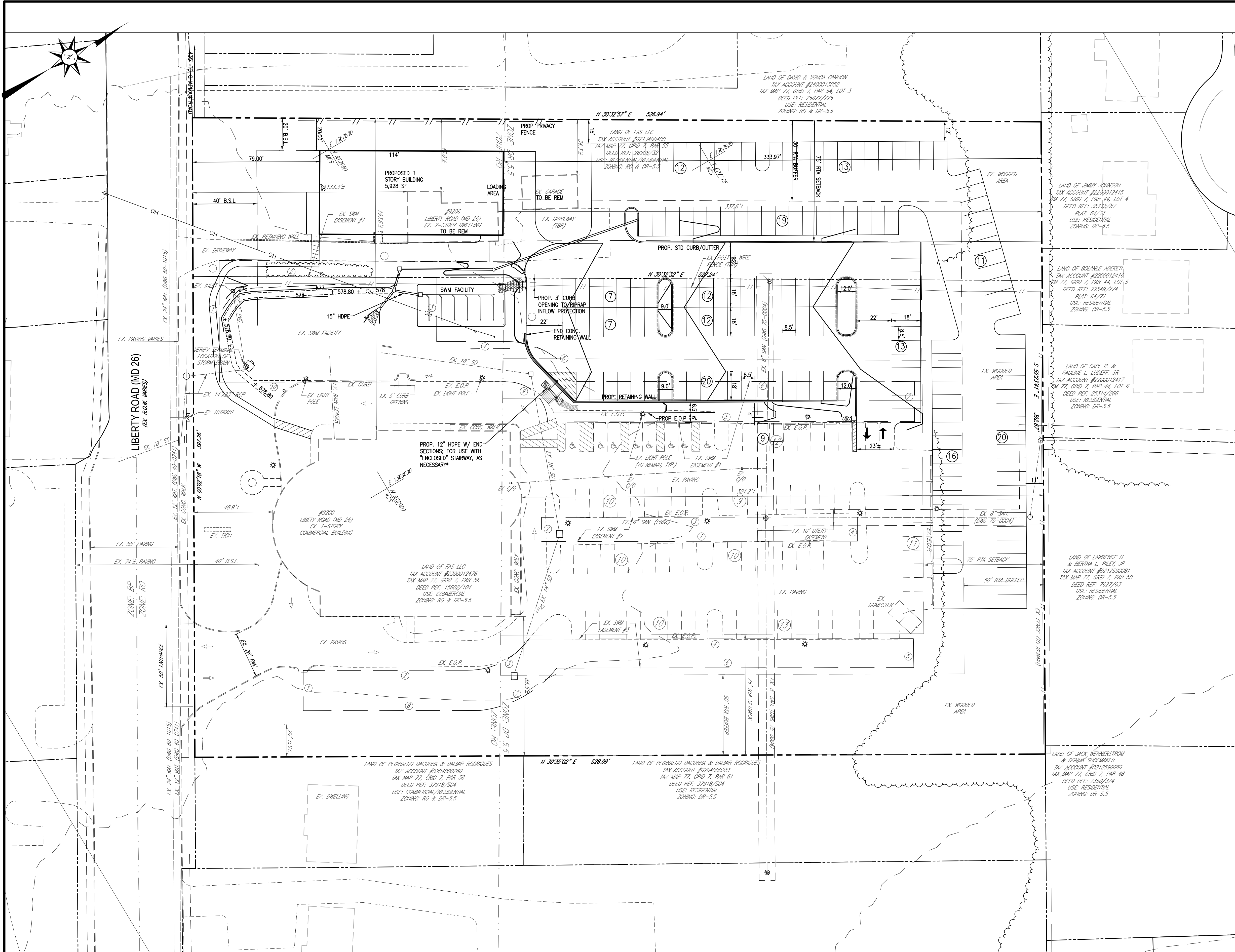
2. The Site Plan (Pet. Ex. 1), a copy of which is attached hereto, is incorporated herein.
3. In regard to 9200 Liberty Rd. funeral home property, all of the Conditions set forth in the Opinion and Order of the Board of Appeals dated January 31, 2003 remain applicable to the funeral home use with the exception of Condition #6 regarding a security gate at the entrance to the funeral home property, which Condition will be eliminated.
4. In regard to 9206 Liberty Rd. crematorium property, all of the Conditions set forth in the Opinion and Order of the Board of Appeals dated January 31, 2003 remain applicable to the crematorium use with the exception of Condition #6 regarding the installation of a security gate at the entrance to the crematorium property, which Condition will be required.
5. Petitioner must comply with the DPR ZAC comment, a copy of which is attached hereto and made a part hereof.
6. As part of the development process, 9200 and 9206 Liberty Rd shall be merged and/or consolidated into a single property for zoning purposes.

Any appeal of this decision must be made within thirty (30) days of the date of this Order.



MAUREEN E. MURPHY
Administrative Law Judge
for Baltimore County

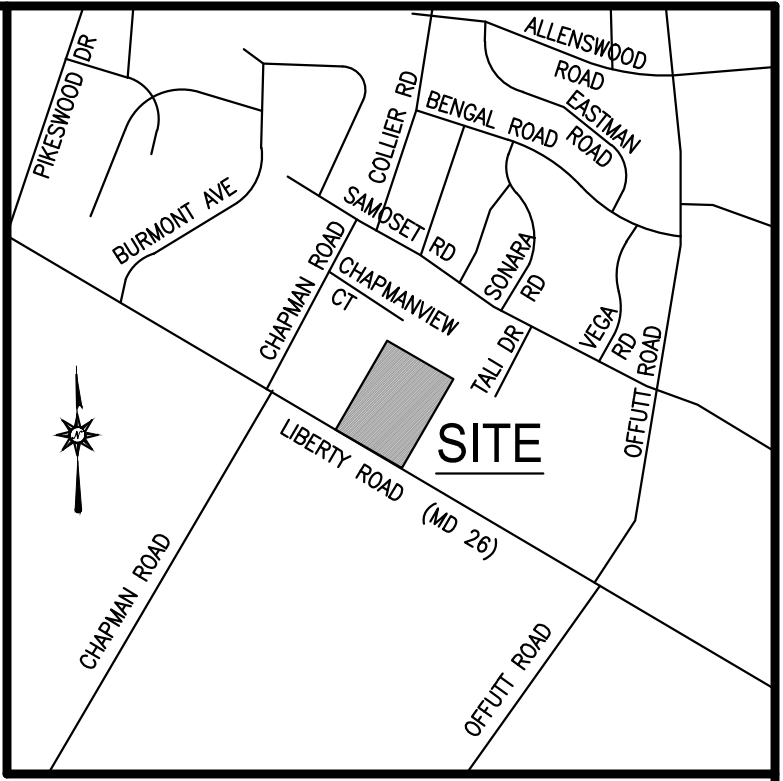
MEM/dlm



GENERAL NOTES:

- OWNER:
PARCEL 55
FAS LLC
6236 GILSTON PARK ROAD
BALTIMORE, MD 21228-2840
PARCEL 56
FAS LLC
634 N. GILMOR STREET
BALTIMORE, MD 21217-2101
- DEVELOPER:
WYLIE FUNERAL HOME PA
634 N. GILMOR STREET
BALTIMORE, MD 21217-2101
PH: 410-462-4070
- PREMISE ADDRESS: 9200 LIBERTY ROAD
- SITE AREA:
PARCEL 55: GROSS/NET = 1.210 AC (52,700 SF)
PARCEL 56: GROSS/NET = 3.624 AC (157,857 SF)
- DEED REF:
PARCEL 55: 26908/032
PARCEL 56: 15602/104
- TAX ACCOUNT: #0213400400 & #2300012476
- COUNCILMANIC DISTRICT: 4TH
- TAX MAP 77, GRID 7, PARCEL 55 & 56
- ZONING: RO & DR 5.5 (PER 1"=200' ZONING MAP 077A1 & 077A2)
AREA: RO = 1.804 AC±
DR 5.5 = 3.038 AC±
- PRIOR ZONING CASE HISTORY (PARCEL 56):
2002-174-XA WAS APPROVED JANUARY 25, 2002 FOR SPECIAL EXCEPTION FOR A FUNERAL HOME AND ASSOCIATED PARKING AND ACCESSORY FEATURES ON PROPERTY ZONED RO AND DR 5.5, AND TO PERMIT THE ILLUMINATION OF AN ENTERPRISE SIGN FOR THE PROPOSED USE AND APPROVAL FOR AN ORNAMENTAL ACCESSORY WATER FOUNTAIN IN THE FRONT YARD.
- NO KNOWN PRIOR PERMITS ON FILE.
- THE PROPERTY AND STRUCTURES ARE NOT HISTORIC.
- THE SITE DOES NOT LIE WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
- USES:
EXISTING: FUNERAL HOME & COMMERCIAL/RESIDENTIAL LOT
PROPOSED: FUNERAL HOME, COMMERCIAL, CREMATORIUM
(TWO RETORTS FOR HUMANS AND ONE FOR ANIMALS)
- SITE SERVICED BY PUBLIC WATER AND SEWER.
- WATERSHED: PATAPSCO RIVER & GWYNNS FALLS
- FLOOR AREA RATIO (F.A.R.)
PERMITTED: 0.2
PROVIDED: 17,303/157,859 = 0.11
- PARKING REQUIRED:
10 SPACES PER 1,000 SF OF PUBLIC ACCESS FLOOR AREA
1 SPACE PER 2 EMPLOYEES
1 SPACE PER BUSINESS VEHICLE

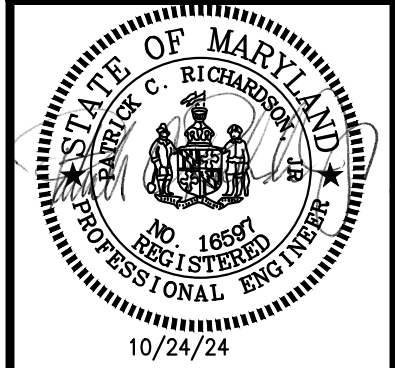
= 8,796 SF/1000x 10 = 88
= 14 EMPLOYEES / 2 = 7
= 6 VEHICLES
TOTAL = 101 SPACES
PROVIDED: 256 SPACES (248 + 8 HANDICAP)
- ANY PROPOSED SIGNS ARE TO CONFORM TO THE BALTIMORE COUNTY ZONING REGULATIONS (BCZR).
- SETBACKS FOR COMMERCIAL USE:
DR 5.5 (RESIDENTIAL TRANSITION AREA "RTA" SETBACKS APPLY):
FRONT: REQUIRED NA PROVIDED NA
SIDE: 75' 86.5', 193.6'
REAR: 75' 324.2'
BQ (PRINCIPAL USE NON-RESIDENTIAL STRUCTURE):
FRONT: REQUIRED PROVIDED
SIDE: 40' 75'
REAR: 20' 20'
NA NA
- THIS SITE IS NOT WITHIN AN AREA IDENTIFIED AS DEFICIENT ON THE BASIC SERVICES MAPS.

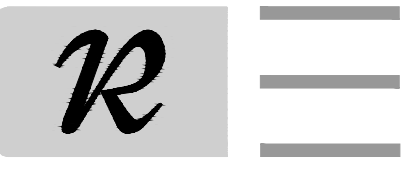


VICINITY MAP

SCALE: 1" = XXXX'

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR
APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE
NUMBER 16597, EXPIRATION DATE: 08-15-2025





Richardson
ENGINEERING

7 Deneison Street
Timonium, Maryland 21093
Phone: 410-560-1502, info@richardsonengineering.net

rick@richardsonengineering.net

PLAN TO ACCOMPANY ZONING PETITION
FOR
WYLIE FUNERAL HOME
9200 & 9206 LIBERTY ROAD
(MD ROUTE 26)

BALTIMORE COUNTY 2ND ELECTION DISTRICT		MARYLAND 4TH COUNCILMANIC DISTRICT	
REVISIONS	DRAWN BY: BDK	CHECKED BY: PCR	SCALE: 1" = 30'
	DATE: 10/16/24	JOB NO.: 23098	SHEET NO.: 1 OF 1

BALTIMORE COUNTY, MARYLAND

INTEROFFICE CORRESPONDENCE

TO: Peter Gutwald, Director
Department of Permits, Approvals

DATE: November 16, 2024

FROM: Vishnu Desai, Supervisor
Bureau of Development Plans Review

SUBJECT: Zoning Advisory Committee Meeting
Case 2024-0161-A

The Bureau of Development Plans Review has reviewed the subject zoning items and we have the following comments.

DPR: No comment.

DPW-T: No exception taken.

Landscaping: If Special Hearing and / or Special Exception and / or Zoning Relief is granted a Landscape Plan is required per the Baltimore County Landscape Manual and a Lighting Plan is also required.

Recreations & Parks: No comment LOS & No Greenways affected.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Blvd • Baltimore, Maryland 21230
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Air and Radiation Management Administration • Air Quality Permits Program

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

Permit to Construct ☒

Registration Update ☐

Initial Registration ☐

1A. Owner of Equipment/Company Name

Mr. Brandon M. Wylie, President & CEO/ Wylie Funeral Homes PA

Mailing Address

9200 9206 Liberty Road
Street Address

Randallstown MD 21133
City State Zip

Telephone Number

(410) 984-4180

Signature



Mr. Brandon M. Wylie, President/CEO, Wylie Funeral Homes PA 6/12/2025
Print Name and Title Date

DO NOT WRITE IN THIS BLOCK

2. REGISTRATION NUMBER

County No.

--	--

1-2

Premises No.

--	--	--	--

3-6

Registration Class

--

7

Equipment No.

--	--	--	--

8-11

Data Year

--	--

12-13

Application Date

1B. Equipment Location and Telephone Number (if different from above)

Street Number and Street Name

City/Town State Zip Telephone Number

Premises Name (if different from above)

3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)

Status

A

15

New Construction
Begun (MM/YY)

	T	B	D
--	---	---	---

16-19

New Construction
Completed (MM/YY)

	T	B	D
--	---	---	---

20-23

Existing Initial
Operation (MM/YY)

--	--	--	--

20-23

4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.)

Matthews Environmental Solutions; PPII Plus (3.0 MMBTU/hr) / Multi-Chamber cremation unit

5. Workmen's Compensation Coverage_Selective Insurance_WC9146923 2/1/2025 - 2/1/202

Binder/Policy Number

Expiration Date

Company_Wylie Funeral Homes PA

NOTE: Before a Permit to Construct may be issued by the Department, the applicant must provide the Department with proof of worker's compensation coverage as required under Section 1-202 of the Worker's Compensation Act.

6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time 1

6B. Number of Stack/Emission Points Associated with this Equipment 1



7. Person Installing this Equipment (if different from Number 1 on Page 1)

Name TBD _____ Title _____
Company TBD _____
Mailing Address/Street _____
City/Town _____ State _____ Telephone _____

8. Major Activity, Product or Service of Company at this Location

CREMATION OF HUMAN REMAINS

9. Control Devices Associated with this Equipment

None

X

24-0

Simple/Multiple
Cyclone

☐

24-1

Spray/Adsorb
Tower

☐

24-2

Venturi
Scrubber

☐

24-3

Carbon
Adsorber

☐

24-4

Electrostatic
Precipitator

☐

24-5

Baghouse

☐

24-6

Thermal/Catalytic
Afterburner

☐

24-7

Dry
Scrubber

☐

24-8

Other

☐

Describe _____

24-9

10. Annual Fuel Consumption for this Equipment

OIL-1000 GALLONS						SULFUR %		GRADE	NATURAL GAS-1000 FT ³						LP GAS-100 GALLONS				GRADE
26-31						32-33		34	35-41						42-45				
						▲			1 1 2 3 2										

COAL- TONS						SULFUR %		ASH%		WOOD-TONS				MOISTURE %	
46-52						53-55		56-58		59-63				64-65	
						▲		▲						▲	

OTHER FUELS ANNUAL AMOUNT CONSUMED OTHER FUEL ANNUAL AMOUNT CONSUMED
(Specify Type) 66-1 (Specify Units of Measure) (Specify Type) 66-2 (Specify Units of Measure)
1= Coke 2= COG 3=BFG 4=Other

11. Operating Schedule (for this Equipment)

Continuous Operation	Batch Process	Hours per Batch	Batch per Week	Hours per Day	Days Per Week	Days per Year
☒	☐					
67-1	67-2	68-69		70-71	72	73-75
Seasonal Variation in Operation:						
No Variation	Winter Percent	Spring Percent	Summer Percent	Fall Percent	(Total Seasons= 100%)	
☒						
76	77-78	79-80	81-82	83-84		



12. Equivalent Stack Information- is Exhaust through Doors, Windows, etc. Only? (Y/N)**N**

85

If not, then

Height Above Ground (FT)

Inside Diameter at Top (in)

Exit Temperature (°F)

Exit Velocity (FT/SEC)

	3	0
--	---	---

86-88

	2	0
--	---	---

89-91

1	1	0	0
---	---	---	---

92-95

	2	0
--	---	---

96-98

NOTE:

Attach a block diagram of process/process line, indicating new equipment as reported on this form and all existing equipment, including control devices and emission points.

13. Input Materials (for this equipment only)Is any of this data to be considered confidential? **N** (Y or N)**INPUT RATE**

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1. HUMAN REMAINS		175	lbs/hr	273	tons/yr
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					

TOTAL**14. Output Materials (for this equipment)****Process/Product Stream****OUTPUT RATE**

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					

TOTAL**15. Waste Streams- Solid and Liquid****OUTPUT RATE**

NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					

TOTAL

16. Total Stack Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter						Oxides of Sulfur						Oxides of Nitrogen					
		4	.	0	9			1	.	9				3	.	1	2
99-104						105-110						111-116					
Carbon Monoxide						Volatile Organic Compounds						PM-10					
		2	.	5	8			0	.	2	6			4	.	0	
177-122						123-128						129-134					

17. Total Fugitive Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter						Oxides of Sulfur						Oxides of Nitrogen					
135-139						140-144						145-149					
Carbon Monoxide						Volatile Organic Compounds						PM-10					
150-154						155-159						160-164					

Method Used to Determine Emissions (1= Estimate 2= Emission Factor 3= Stack Test 4= Other)

TSP	SOX	NOX	CO	VOC	PM10
2	2	2	2	2	2
165	166	167	168	169	170

AIR AND RADIATION MANAGEMENT ADMINISTRATION USE ONLY

18. Date Rec'd. Local	Date Rec'd. State	Return to Local Jurisdiction
_____	_____	Date _____ By _____
Reviewed by Local Jurisdiction	Reviewed by State	
Date _____ By _____	Date _____ By _____	

19. Inventory Date	Month/Year	Equipment Code	SCC Code
171-174	175-177	178-185	

20. Annual Operating Rate	Maximum Design Hourly Rate	Permit to Operate Month	Transaction Date (MM/DD/YR)
186-192	193-199	200-201	202-207

Staff Code	VOC Code	SIP Code	Regulation Code	Confidentiality	
208-210	211 212	213 214	215-218	219	
Point Description					Action
220-238					239



MARYLAND DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Management Administration • Air Quality Permits Program

1800 Washington Boulevard • Baltimore, Maryland 21230

(410)537-3225 • 1-800-633-6101 • www.mde.maryland.gov

FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Mr. Brandon M. Wylie

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
Unit 01 (Power Pak II Plus, IE43-PPII Plus)

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:

Matthews Environmental Solutions - Nat Gas Fired Multiple Chamber cremation unit. No Add On Control Device

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	I	Seasonal Variation	
		Check box if none: ☒ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	
Hours per day:	10	Spring Percent	
Days per week:	6	Summer Percent	
Weeks per year:	52	Fall Percent	

4. Emission Point Information

Height above ground (ft):	30	Length and width dimensions at top of rectangular stack (ft):	Length:		Width:	
Height above structures (ft):	10					
Exit temperature (°F):	1100	Inside diameter at top of round stack (ft):			1.67	
Exit velocity (ft/min):	1200	Distance from emission point to nearest property line (ft):			36.67 ft	
Exhaust gas volumetric flow rate (acfm):	2100	Building dimensions if emission point is located on building (ft)	Height 20	Length 115' - 4"	Width 72' - 8"	

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

☒ None	☐ Thermal Oxidizer	No. _____
☐ Baghouse	No. _____	☐ Regenerative
☐ Cyclone	No. _____	☐ Catalytic Oxidizer
☐ Elec. Precipitator (ESP)	No. _____	☐ Nitrogen Oxides Reduction
☐ Dust Suppression System	No. _____	☐ Selective
☐ Venturi Scrubber	No. _____	☐ Non-Selective
☐ Spray Tower/Packed Bed	No. _____	☐ Catalytic
☐ Carbon Adsorber	No. _____	☐ Other
☐ Cartridge/Canister		No. _____
☐ Regenerative		

[illegible]

(Attach additional sheets as necessary.)

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FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration

Applicant Name: _____

****Results are in an addendum****

Step 1: Quantify premises-wide emissions of Toxic Air Pollutants (TAP) from new and existing installations in accordance with COMAR 26.11.15.04. Attach supporting documentation as necessary.

Toxic Air Pollutant (TAP)	CAS Number	Class I or Class II?	Screening Levels ($\mu\text{g}/\text{m}^3$)			Estimated Premises Wide Emissions of TAP			
						Actual Total Existing TAP Emissions	Projected TAP Emissions from Proposed Installation	Premises Wide Total TAP Emissions	
			1-hour	8-hour	Annual	(lb/hr)	(lb/hr)	(lb/hr)	(lb/yr)
<i>ex. ethanol</i>	64175	II	18843	3769	N/A	0.60	0.15	0.75	1500
<i>ex. benzene</i>	71432	I	80	16	0.13	0.5	0.75	1.00	400

(attach additional sheets as necessary.)

Note: Screening levels can be obtained from the Department's website (<http://www.mde.maryland.gov>) or by calling the Department.

Step 2: Determine which TAPs are exempt from further review. A TAP that meets either of the following Class I or Class II small quantity emitter exemptions is exempt from further TAP compliance demonstration requirements under Step 3 and Step 4.

Class II TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(a))

A Class II TAP is exempt from Step 3 and Step 4 if the Class II TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour, and any applicable 1-hour or 8-hour screening level for the TAP must be greater than $200 \mu\text{g}/\text{m}^3$.

Class I TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(b))

A Class I TAP is exempt from Step 3 and Step 4 if the Class I TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour and 350 pounds per year, any applicable 1-hour or 8-hour screening level for the TAP must be greater than $200 \mu\text{g}/\text{m}^3$, and any applicable annual screening level for the TAP must be greater than $1 \mu\text{g}/\text{m}^3$.

If a TAP meets either the Class I or Class II TAP Small Quantity Emitter Exemption Requirements, no further review under Step 3 and Step 4 are required for that specific TAP.

FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration

Step 3: Best Available Control Technology for Toxics Requirement (T-BACT, COMAR 26.11.15.05)

In the following table, list all TAP emission reduction options considered when determining T-BACT for the proposed installation. The options should be listed in order beginning with the most effective control strategy to the least effective strategy. Attach supporting documentation as necessary. ****NOT APPLICABLE****

Target Pollutants	Emission Control Option	% Emission Reduction	Costs		T-BACT Option Selected? (yes/no)
			Capital	Annual Operating	
<i>ex. ethanol and benzene</i>	<i>Thermal Oxidizer</i>	<i>99</i>	<i>\$50,000</i>	<i>\$100,000</i>	<i>no</i>
<i>ex. ethanol and benzene</i>	<i>Low VOC materials</i>	<i>80</i>	<i>0</i>	<i>\$100,000</i>	<i>yes</i>

(attach additional sheets as necessary)

Step 4: Demonstrating Compliance with the Ambient Impact Requirement (COMAR 26.11.15.06)

****Results are in an addendum****

Each TAP not exempt in Step 2 must be individually evaluated to determine that the emissions of the TAP will not adversely impact public health. The evaluation consists of a series of increasingly non-conservative (and increasingly rigorous) tests. Once a TAP passes a test in the evaluation, no further analysis is required for that TAP. "Demonstrating Compliance with the Ambient Impact Requirement under the Toxic Air Pollutant (TAP) Regulations (COMAR 26.11.15.06)" provides guidance on conducting the evaluation. Summarize your results in the following table. Attach supporting documentation as necessary.

Toxic Air Pollutant (TAP)	CAS Number	Screening Levels ($\mu\text{g}/\text{m}^3$)			Premises Wide Total TAP Emissions		Allowable Emissions Rate (AER) per COMAR 26.11.16.02A		Off-site Concentrations per Screening Analysis ($\mu\text{g}/\text{m}^3$)			Compliance Method Used?
		1-hour	8-hour	Annual	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	1-hour	8-hour	Annual	AER or Screen
<i>ex. ethanol</i>	<i>64175</i>	<i>18843</i>	<i>3769</i>	<i>N/A</i>	<i>0.75</i>	<i>1500</i>	<i>0.89</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>AER</i>
<i>ex. benzene</i>	<i>71432</i>	<i>80</i>	<i>16</i>	<i>0.13</i>	<i>1.00</i>	<i>400</i>	<i>0.04</i>	<i>36.52</i>	<i>1.5</i>	<i>1.05</i>	<i>0.12</i>	<i>Screen</i>

(attach additional sheets as necessary)

If compliance with the ambient impact requirement cannot be met using the allowable emissions rate method or the screening analysis method, refined dispersion modeling techniques may be required. Please consult with the Department's Air Quality Permit Program prior to conducting dispersion modeling methods to demonstrate compliance.

ATTACHMENT B

AERSURFACE LANDUSE CHARACTERIZATION MODEL RESULTS, SCREEN3 INPUT / OUTPUT AND TOXYTOOL SCREENING RESULTS

AERSURFACE LANDUSE CHARACTERISTICS MODEL RESULTS FOR USE IN SCREEN3

NLCD Code	Description	No. of Cells	% of Total	Rural/Urban	
0	Missing, Out-of-Bounds, or Unde:	0	0%	Rural	Rural: 53% Urban: 47%
11	Open Water:	23	0%	Rural	
12	Perennial Ice/Snow:	0	0%	Rural	
21	Developed, Open Space:	6304	20%	Rural	
22	Developed, Low Intensity:	9211	29%	Urban	
23	Developed, Medium Intensity:	4426	14%	Urban	
24	Developed, High Intensity:	1034	3%	Urban	
31	Barren Land (Rock/Sand/Clay):	33	0%	Rural	
32	Unconsolidated Shore:	0	0%	Rural	
41	Deciduous Forest:	6852	22%	Rural	
42	Evergreen Forest:	17	0%	Rural	
43	Mixed Forest:	353	1%	Rural	
51	Dwarf Scrub:	0	0%	Rural	
52	Shrub/Scrub:	28	0%	Rural	
71	Grasslands/Herbaceous:	160	1%	Rural	
72	Sedge/Herbaceous:	0	0%	Rural	
73	Lichens:	0	0%	Rural	
74	Moss:	0	0%	Rural	
81	Pasture/Hay:	2673	9%	Rural	
82	Cultivated Crops:	282	1%	Rural	
90	Woody Wetlands:	25	0%	Rural	
91	Palustrine Forested Wetland:	0	0%	Rural	
92	Palustrine Scrub/Shrub Wetland:	0	0%	Rural	
93	Estuarine Forested Wetland:	0	0%	Rural	
94	Estuarine Scrub/Shrub Wetland:	0	0%	Rural	
95	Emergent Herbaceous Wetland:	0	0%	Rural	
96	Palustrine Emergent Wetland (Pe:	0	0%	Rural	
97	Estuarine Emergent Wetland:	0	0%	Rural	
98	Palustrine Aquatic Bed:	0	0%	Rural	
99	Estuarine Aquatic Bed:	0	0%	Rural	

Total:		31421			

05/20/25

14:39:41

*** SCREEN3 MODEL RUN ***

*** VERSION DATED 13043 ***

C:\Users\mark.gibson\crematorium new.scr

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = 0.126000
STACK HEIGHT (M) = 9.1400
STK INSIDE DIAM (M) = 0.5080
STK EXIT VELOCITY (M/S) = 6.0960
STK GAS EXIT TEMP (K) = 866.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = 0.0000
URBAN/RURAL OPTION = RURAL (Determined by Running AERMOD, AERSURFACE. See attached calculations above)
BUILDING HEIGHT (M) = 6.0960
MIN HORIZ BLDG DIM (M) = 22.1500
MAX HORIZ BLDG DIM (M) = 35.1500

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY.FLUX = $2.552 \text{ M}^{**4}/\text{S}^{**3}$; MOM. FLUX = $0.811 \text{ M}^{**4}/\text{S}^{**2}$.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC		U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6.	0.000	0	0.0	0.0	0.0	0.00	0.00	0.00	NA
100.	29.33	4	8.0	8.0	2560.0	10.08	8.20	6.68	SS
200.	24.45	4	5.0	5.0	1600.0	12.27	15.56	10.16	SS
300.	18.80	4	4.0	4.0	1280.0	14.22	22.61	13.18	SS
400.	15.25	4	3.0	3.0	960.0	17.85	29.45	16.10	SS
500.	12.75	4	2.5	2.5	800.0	20.90	36.15	18.94	SS
600.	10.88	4	2.5	2.5	800.0	20.90	42.72	21.84	SS
700.	9.647	4	2.0	2.0	640.0	25.58	49.19	24.44	SS
800.	8.527	4	2.0	2.0	640.0	25.58	55.57	27.17	SS
900.	7.706	4	1.5	1.5	480.0	33.44	61.88	29.54	SS
1000.	7.106	4	1.5	1.5	480.0	33.44	68.13	32.09	SS

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 6. M:

61. 35.43 5 5.0 5.0 10000.0 10.98 3.93 4.94 SS

DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \cdot LB$

* SUMMARY OF TERRAIN HEIGHTS ENTERED FOR *

* SIMPLE ELEVATED TERRAIN PROCEDURE *

TERRAIN DISTANCE RANGE (M)

HT (M) MINIMUM MAXIMUM

0. 6. 1000.

*** REGULATORY (Default) ***

PERFORMING CAVITY CALCULATIONS
WITH ORIGINAL SCREEN CAVITY MODEL
(BRODE, 1988)

*** CAVITY CALCULATION - 1 ***

CONC (UG/M**3) = 0.000
 CRIT WS @10M (M/S) = 99.99
 CRIT WS @ HS (M/S) = 99.99
 DILUTION WS (M/S) = 99.99
 CAVITY HT (M) = 6.18
 CAVITY LENGTH (M) = 25.19
 ALONGWIND DIM (M) = 22.15

*** CAVITY CALCULATION - 2 ***

CONC (UG/M**3) = 0.000
 CRIT WS @10M (M/S) = 99.99
 CRIT WS @ HS (M/S) = 99.99
 DILUTION WS (M/S) = 99.99
 CAVITY HT (M) = 6.10
 CAVITY LENGTH (M) = 20.31
 ALONGWIND DIM (M) = 35.15

CAVITY CONC NOT CALCULATED FOR CRIT WS > 20.0 M/S. CONC SET = 0.0

END OF CAVITY CALCULATIONS

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
-----	-----	-----	-----
SIMPLE TERRAIN	35.43	61.	0.

Premises Wide Human (number of cremations)	Animal (lbs)
1	0
6	0
1872	0

	Animal to Human Equivalent
Cremations per Hour	0.0
Cremations per 8-hour	0.0
Cremations per year	0.0

1872.0 (6 cremations over 8 hours x 6-days/week x 52 weeks)

Screen3 maximum concentration (1 lb/hr emission rate) from crematory stacks Max concentration observed 61 meters (200 feet) from the stack.
Screen3 maximum concentration (1 lb/hr emission rate) from pet crematory stack
Screen3 maximum concentration (1 lb/hr emission rate) from old animal crematory stack

Total TAP	3.37E-01 tpy
-----------	--------------

ATTACHMENT C

CRITERIA AIR POLLUTANT CALCULATIONS FOR FORM 5EP 6. ESTIMATED EMISSIONS FROM THE EMISSION POINT

Calculation Of Emissions

Estimated Emission Calculation

Matthews Environmental Solutions
Crematory Incinerator Model IE43-PPII Plus

Total Incinerator Burn Capacity 175 lb/hr of remains (type 4) and associated containers (type 0)
Flue gas flow rate = 1175 dscfm 10 Hours/Day X 6 Days/Week X 52 Weeks/Year
(100 % Excess Air) = 3120 Hours/Year

Total Emission Rate = Incinerator Burn Rate X Emission Factor

Sulfur Dioxide (SO₂)

$$\begin{array}{rcl} \frac{175 \text{ lb/hr X } 2.17 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} & = & 0.190 \text{ lb/hr} \\ & = & 0.2962 \text{ TPY} \\ \frac{0.189875 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1175 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{f}^3 \text{ X } 2.61 \text{ mg/m}^3} & = & 16.55 \text{ ppmv} \end{array}$$

Nitrogen Oxide (NO_x - as Nitrogen Dioxide)

$$\begin{array}{rcl} \frac{175 \text{ lb/hr X } 3.56 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} & = & 0.3115 \text{ lb/hr} \\ & = & 0.4859 \text{ TPY} \\ \frac{0.3115 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1175 \text{ dscfm X } 60 \text{ min/hr X } 0.028 \text{ m}^3/\text{f}^3 \text{ X } 1.88 \text{ mg/m}^3} & = & 38.11 \text{ ppmv} \end{array}$$

Hydrocarbons (TOC/VOC - methane)

$$\begin{array}{rcl} \frac{175 \text{ lb/hr X } 2.99\text{E}-01 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} & = & 0.0262 \text{ lb/hr} \\ & = & 0.0408 \text{ TPY} \\ \frac{0.0261625 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1175 \text{ dscfm X } 60 \text{ min/hr X } 0.0283 \text{ m}^3/\text{f}^3 \text{ X } 0.65 \text{ mg/m}^3} & = & 9.16 \text{ ppmv} \end{array}$$

Particulates (PM & PM₁₀)

$$\begin{array}{rcl} \frac{175 \text{ lb/hr X } 4.67 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} & = & 0.4086 \text{ lb/hr} \\ & = & 0.6375 \text{ TPY} \\ \frac{0.408625 \text{ lb/hr X } 7.00\text{E}+03 \text{ gr/lb X}}{1175 \text{ dscfm X } 60 \text{ min/hr}} & = & 0.04 \text{ gr/dscf} \end{array}$$

Carbon Monoxide (CO)

$$\begin{array}{rcl} \frac{175 \text{ lb/hr X } 2.95 \text{ lb/ton X } 1 \text{ ton}}{2000 \text{ lbs}} & = & 0.2581 \text{ lb/hr} \\ & = & 0.4027 \text{ TPY} \\ \frac{0.258125 \text{ lb/hr X } 4.54\text{E}+05 \text{ mg/lb X } 1 \text{ ppmv}}{1175 \text{ dscfm X } 60 \text{ min/hr X } 0.028 \text{ m}^3/\text{f}^3 \text{ X } 1.14 \text{ mg/m}^3} & = & 52.08 \text{ ppmv} \end{array}$$

Notes:

1. Incinerator Emissions based on EPA emissions from Table 2.3-1 and 2.3-2 of AP-42 (5th Edition)
2. All conversion factors from AP-42 Appendix A.

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ATTACHMENT D

GHG CALCULATIONS

FOR FORM 5EP 6. ESTIMATED EMISSIONS FROM THE EMISSION POINT

Calculation Of GHG Emissions

Potential to Emit

Matthews Cremation Division (MCD)

Type Of Gas:	Nat Gas	
Gas Heating Value:	1,000	Btu/cf
Heat Input Capacity of Cremation Unit:	3.00E+06	Btu/hr

$$\text{Potential Throughput (cf / yr)} = \text{Heat Input Capacity (MMBtu/hr)} \times (\text{total hrs/yr}) \times (1 / \text{Gas Heating Value})$$

$$= 3.00\text{E}+06 \text{ Btu/hr} \times 3120 \text{ hrs/yr} \times \frac{1 \text{ cf/Btu}}{1,000} = 9360000 \text{ cf/yr}$$

$$\text{GHG (TPY)} = \text{Emission Factor (lb/E6 cf)} \times \text{Potential Throughput (cf/yr)} \times (1 \text{ ton}/2000 \text{ lbs})$$

Carbon Dioxide (CO2)

$$\frac{120000 \text{ lb}}{1.00\text{E}+06 \text{ cf}} \times \frac{9360000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 561.6 \text{ TPY}$$

Nitrous Oxide (N2O)

$$\frac{2.2 \text{ lb}}{1.00\text{E}+06 \text{ cf}} \times \frac{9360000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 0.010296 \text{ TPY}$$

Methane (CH4)

$$\frac{2.3 \text{ lb}}{1.00\text{E}+06 \text{ cf}} \times \frac{9360000 \text{ cf}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = 0.010764 \text{ TPY}$$

$$\text{CO2e (TPY)} = (\text{CO2 TPY} \times \text{CO2 GWP}) + (\text{N2O TPY} \times \text{N2O GWP}) + (\text{CH4 TPY} \times \text{CH4 GWP})$$

$$= 561.6 \times 1 + 0.010296 \times 310 + 0.010764 \times 21$$

$$= 565.017804 \text{ TPY}$$

Fluorinated Gases (i.e. Hydrofluorocarbons, Perfluorocarbons, Sulfur Hexafluoride) - N/A

Notes:

1. GWP values from Table A-1 of 40CFR 98, Subpart A
2. Gas CO2, N2O, CH4 emission factors based from AP42 Table 1.4-2 or Table 1.5-1

ATTACHMENT E

Mr. BRANDON M. WYLIE/UNIT 01 CREMATORIUM

LOCATION MAP & SITE DETAILS

**WYLIE FUNERAL HOMES PA PROPERTY LINE
(Mr. BRANDON M. WYLIE/UNIT 01
CREMATORIUM LOCATION AND LOCATION COORDINATES**



Red line = property line

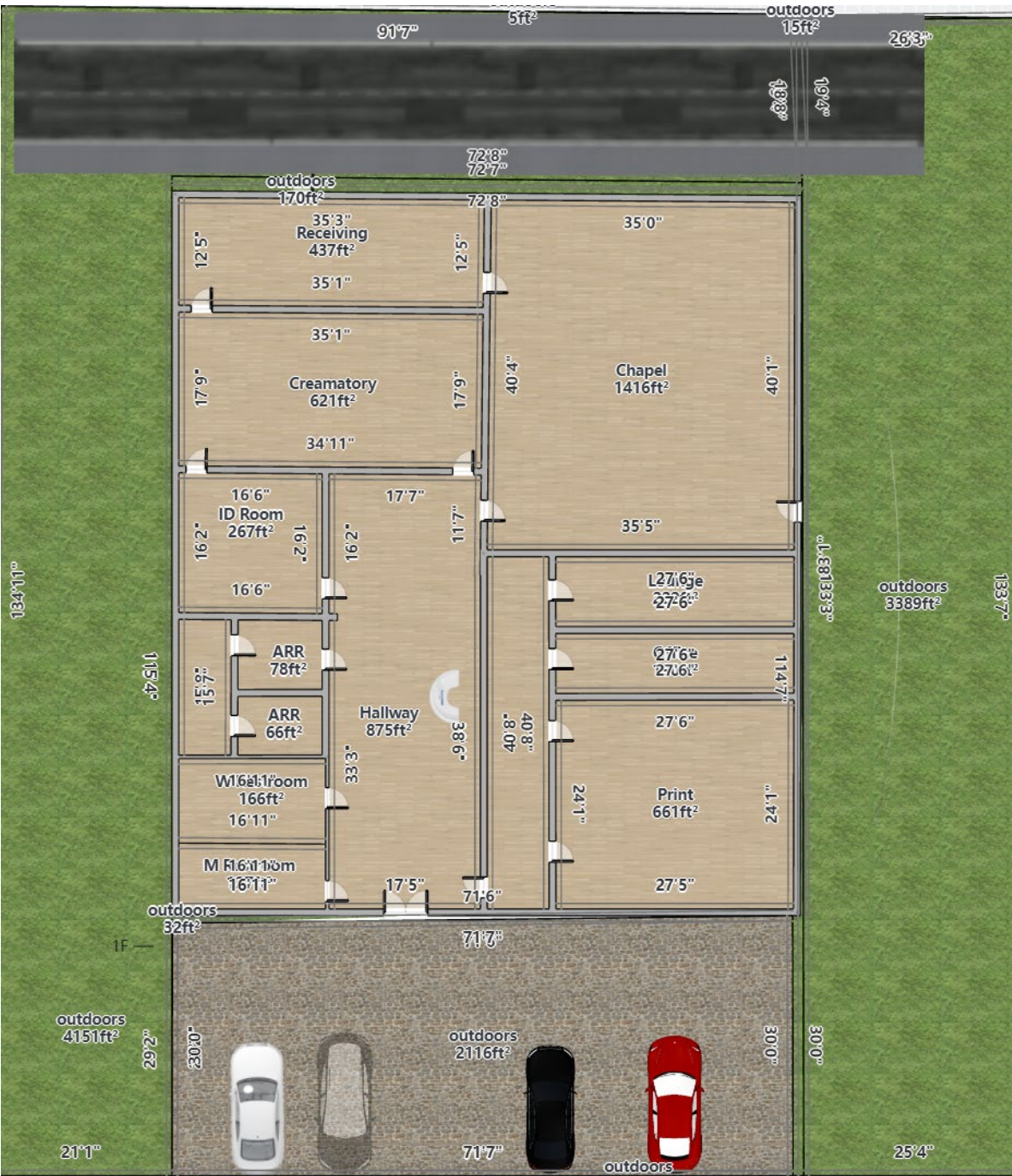
Green line = new building housing the crematorium

Yellow line = location of the crematorium in the new building

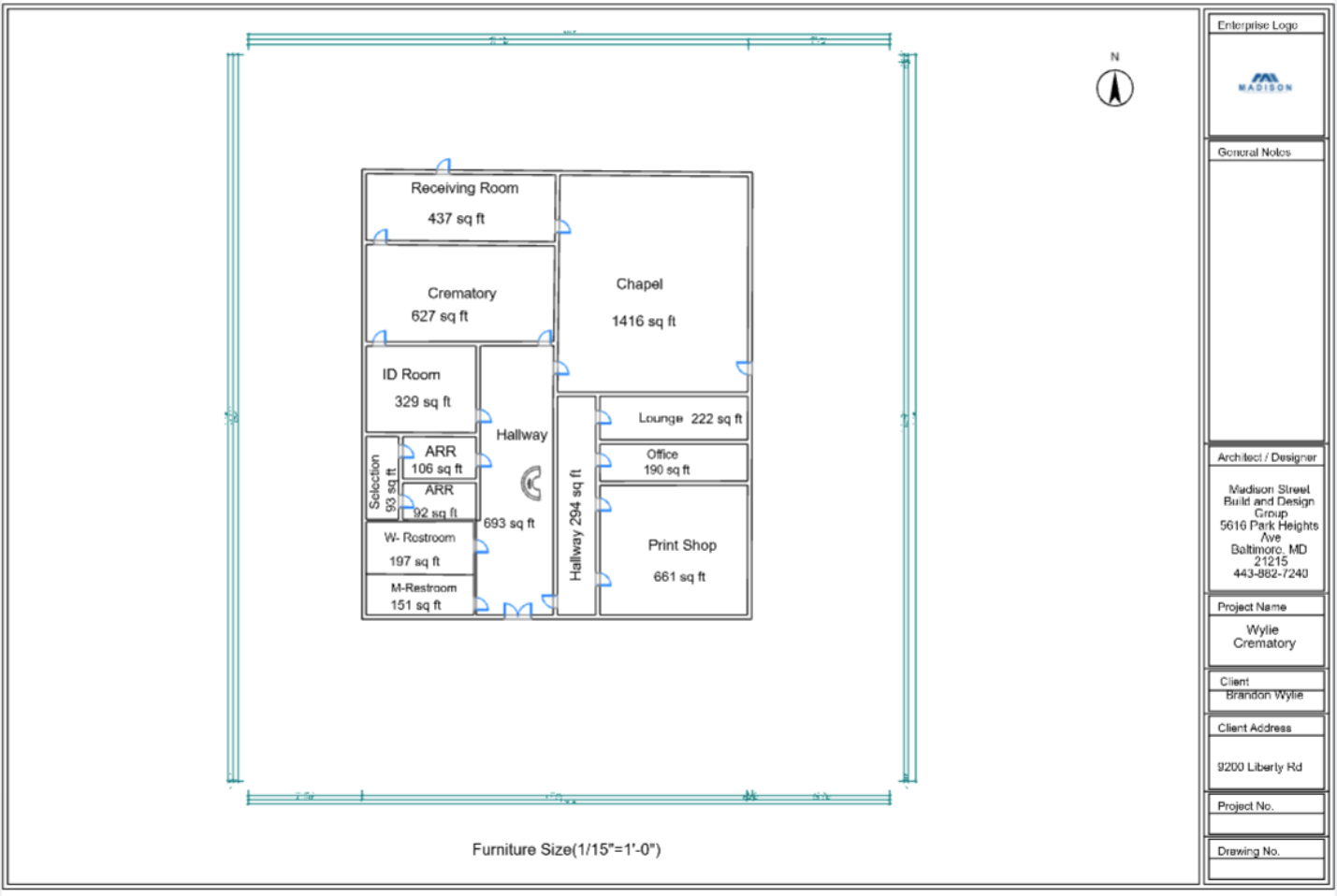
Coordinates of the crematorium location

= 39°22'17.74" N 76°48'13.03" W

LAYOUT OF THE PROPOSED CREMATORIUM



ARCHITECTURAL DRAWING OF THE PROPOSED CREMATORIUM BUILDING



ATTACHMENT F

CREMATORIUM SPECIFICATIONS & PROCESS FLOW DIAGRAM

PowerPak II PLUS

A Higher Standard

- Designed for 6 Cremations Per Day
- 100 minutes or Less Cremation Time
- Secondary Chamber Volume: 96 Cu. Ft.
- Oversize 43" Door For Maximum Load Capacity



*PowerPak II PLUS shown with optional EX-1 Design Upgrade, and remote operation via included Android tablet.

The Future Of Cremation

M Matthews®
ENVIRONMENTAL SOLUTIONS

High-Tech Productivity

For Small And Mid-Sized Crematories

The PowerPak II PLUS delivers industry-leading technology and the extra capacity you need to grow your business. Featuring a larger secondary chamber and faster cremation times than our basic cremation system, the PowerPak II PLUS is perfect for businesses that perform up to 6 cremations per day.

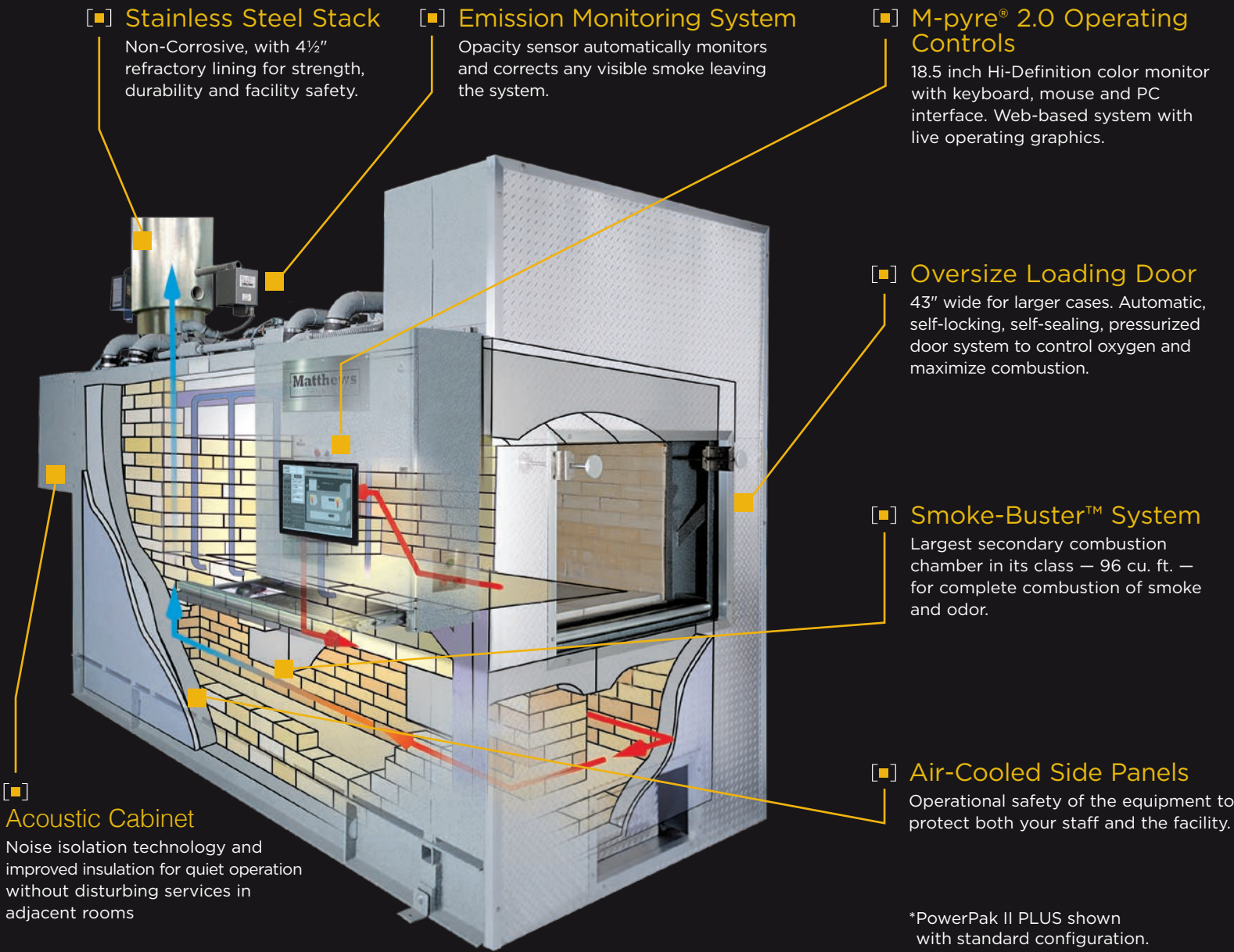
Ready To Go

The PowerPak II PLUS arrives at your doorstep ready to go. It comes pre-wired, pre-piped, and pre-tested. All you have to do is unload it, connect it to gas and electricity, and attach the exhaust stack. As always, our team is available to help you prepare your site so installation is quick and easy.



M-pyre® Makes A Tough Job Easy

Managing the operation of your cremation equipment has never been easier! Our intuitive logic control system allows you to answer four basic questions prior to starting the cremation cycle and your equipment is automatically set for maximizing operating conditions. It features remote capabilities that let you monitor your crematory activity, create instant performance reports and communicate with Matthews technical support via the Internet from anywhere in the world. Matthews service team can stay connected to your machine 24/7 to provide peace of mind and instant support. We are with you every step of the way.



The Future Of Cremation: Matthews Gives You More

Matthews is redefining the future of cremation. We offer a powerful partnership that gives you access to our global resources and combines all of our engineering talents. With more than 100 of years of experience and 4,500 installations in over 50 countries, we are the most trusted brand in cremation technology and service. Count on Matthews to help build your business for both today's challenges and tomorrow's opportunities. Visit us at MatthewsCremation.com.

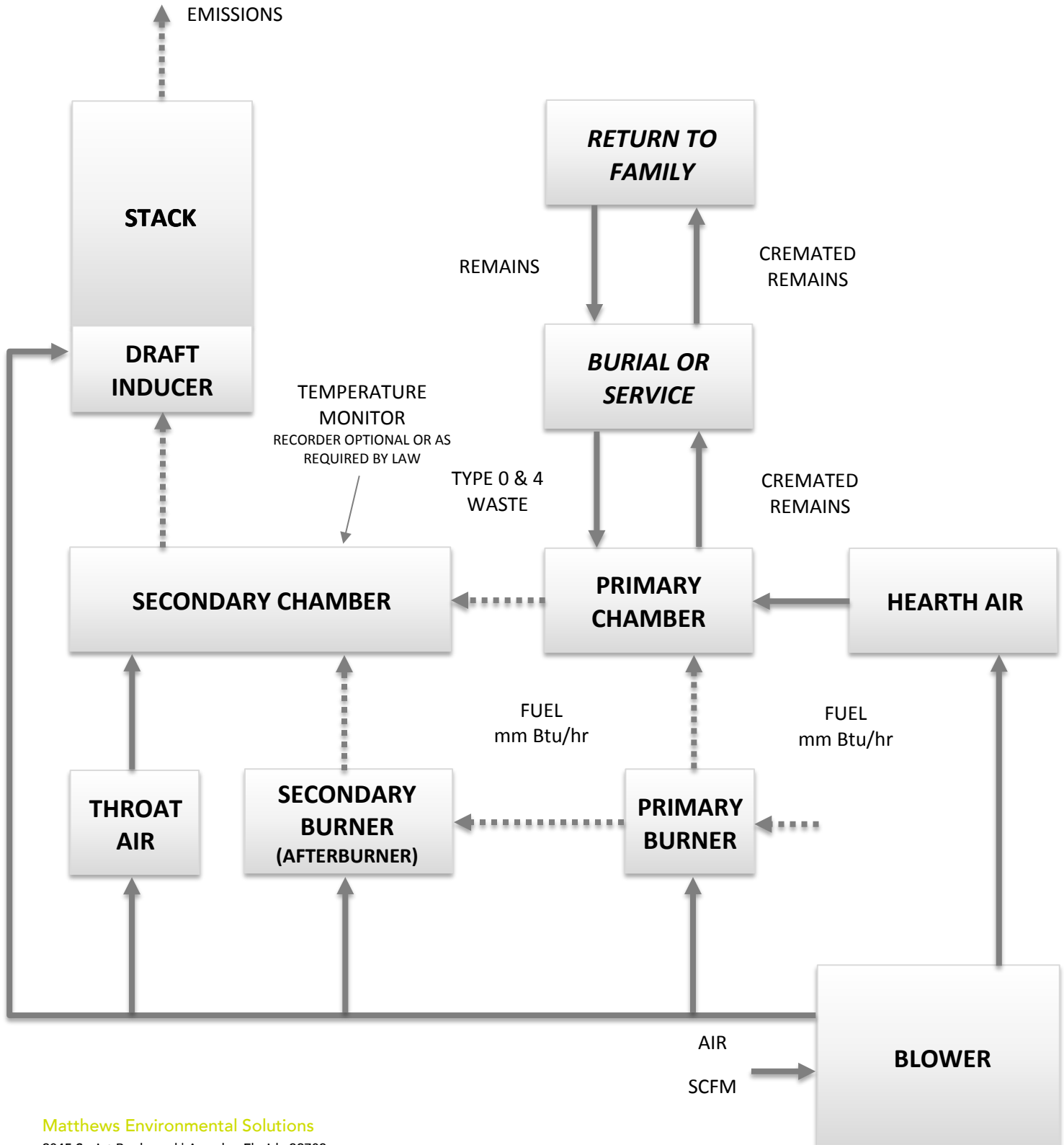
The Power Of Partnership

- Financial ROI Analysis
- Zoning and Permitting Support
- Operator Training and Certification
- 24/7 Customer Service and Support
- Custom Engineering and Design
- Facility Layout and Design
- Crematory Accessories and Supplies
- Leasing and Financing Options
- Turn-Key Installation

PowerPak II PLUS Specifications

Overall Height:	9' (2.74 m)
Overall Width:	5' 9" (1.75 m)
Overall Length:	14' 10.5" (4.53 m)
Weight:	28,000 lb. (12,700.586 kg)
Fuel:	Natural or L.P. Gas (Oil available)
Electrical:	230 volts, 1-phase/3-phase





Matthews Environmental Solutions

2045 Sprint Boulevard | Apopka, Florida 32703

O: 407-886-5533 | F: 407-886-5990 | www.matthewsenviromentalsolutions.com

Matthews
INTERNATIONAL

Matthews Environmental Solutions is a (MATW) Matthews International company

Rev 07.27.18

SPECIFICATIONS- Model Power-Pak II Plus

1. Equipment Type..... Model Power-Pak II Plus
 - A. Model No. IE43-PPII Plus
 - B. Underwriters Laboratories Listing and File No. .. 87E8; MH14647
2. Dimensions
 - A. Footprint 12' – 9 ½ " x 5' - 9" (3.9 m x 1.8 m)
 - B. Maximum Length..... 14' – 10 ½ " (4.53 m)
 - C. Maximum Width 6' -10" (2.08 m)
 - D. Maximum Height 9' (2.74 m)
 - E. Chamber Loading Opening 30 ¾ " H x 43 ½ " W (781 mm x 1105 mm)
3. Weight 28,000 lbs. (12,700 kg)
4. Utility/Air Requirements
 - A. Gross Gas Input, Natural or LP Gas..... 3,000,000 BTU/hr. (3,165,168 kJ/h)
 - Running Gas Pressure, LP or Natural Gas 11 inches (279.4 mm) water column or greater
 - B. Electrical Supply..... 230 volt, 3Ø or 1Ø, 50/60 hz (others available)
 - C. Air Supply..... 2,500 cfm (70.8 standard m³/min)
5. Incineration Capacity 175 lbs./hr. (79 kg/h)
6. Typical Loading Capacity of Waste Types..... 750 lbs. (340.2 kg)
7. Construction and Safety Standards..... Incineration Institute of America, Underwriters Laboratories, Canadian Standards Association
8. Steel Structure Construction
 - A. Frame 2" (51 mm) square tubing
 - B. Front/Rear Plates 3/8" (9.5 mm) plate
 - C. Floor Plates..... 3/16" (5 mm) plate
 - D. Outer Side Casing..... 12 gauge (3 mm) plate
 - E. Inner Side Casing..... 12 gauge (3 mm) plate
9. Stack Construction
 - A. Inner Wall..... 4 1/2" (110 mm) insulating firebrick or castable
 - B. Outer Wall..... 12 gauge (3 mm) sheet, Stainless Steel, welded seams (unlined stack available)
10. Draft Nozzle Construction Schedule 40 Stainless Steel pipe with welded connections
11. Main Chamber Door Construction
 - A. Steel Shell..... 3/16" (5 mm) steel, welded with reinforcement
 - B. Outer Refractory..... 1" (25 mm) insulating block
 - C. Inner Refractory 4½" (110 mm) insulating firebrick

SPECIFICATIONS- Model Power-Pak II Plus

12. Primary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 5" (127 mm) insulating block
 - E. Inner Refractory Wall 4½" (114 mm) firebrick

13. Secondary Chamber Wall Construction
 - A. Outer Casing Wall 12 gauge (3 mm) sheet
 - B. Inner Frame/Air Compartment..... 2" (51 mm) air compartment
 - C. Inner Casing Wall..... 12 gauge (3 mm) sheet
 - D. Outer Refractory Wall..... 6" (152 mm) insulating block
 - E. Inner Refractory Wall 4½" (114 mm) firebrick

14. Refractory Temperature Ratings
 - A. Standard Firebrick..... 3,100° F. (1704° C)
 - B. Insulating Firebrick..... 2,600° F. (1427° C)
 - C. Castable Refractory (Hearth)..... 2,550° F. (1399° C)
 - D. Castable Refractory 3,100° F. (1704° C)
 - E. Insulating Block..... 1,900° F. (1038° C)
 - F. Bonding Mortar 3,200° F. (1760° C)

15. Chamber Volumes (not including external flues, stacks or chimneys)
 - A. Primary Chamber 70 cubic feet (2.12 m³)
 - B. Secondary Chamber 96 cubic feet (2.72 m³)

16. Emission Control Features
 - A. Secondary Chamber with Afterburner Included
 - B. Opacity Monitor and Controller with Visual and Audible Alarms Included
 - C. Auxiliary Air Control System..... Included
 - D. Microprocessor Temperature Control System Included

17. Operating Temperatures
 - A. Primary Chamber..... 32° F. - 1,800° F. (0° C - 982° C)
 - B. Secondary Chamber 1,400° F. - 1,800° F. (760°C - 982°C)
(as required by Env. agency)

18. Secondary Chamber Retention Time > 1 second

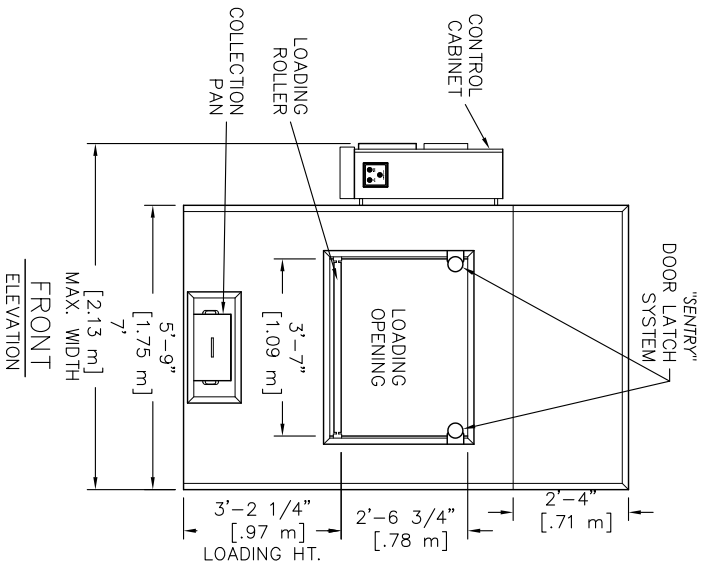
19. Ash Removal Door functions as a heat shield. Sweep out beneath front door into hopper that fills collection pan.

SPECIFICATIONS- Model Power-Pak II Plus

20. Safety Interlocks
- A. High Gas Pressure Optional
 - B. Low Gas Pressure..... Optional
 - C. Blower Air Pressure Included
 - D. Door Position Included
 - E. Opacity..... Included
 - F. Motor Starter Function..... Included
 - G. Chamber Temperature Included
 - H. Motor Overload Included
 - I. Flame Quality Included
 - J. Burner Safe Start Included
 - K. Cremation Burner/Door Interlock..... Available upon Env. Agency requirements
21. Burner Description The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.
22. Ultraviolet Flame Detection Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.
23. Operating Panel indicators
- A. Safe Run Included
 - B. Door Closed Included
 - C. Pollution Alarm Included
 - D. Afterburner On (Secondary Burner)..... Included
 - E. Cremation Burner On Included
 - F. Low Fire Cremation Burner On..... Included
 - G. Afterburner (Secondary Burner) Reset Included
 - H. Cremation Burner Reset..... Included
 - I. Hearth Air..... Included
 - J. Throat Air Off Included

SPECIFICATIONS- Model Power-Pak II Plus

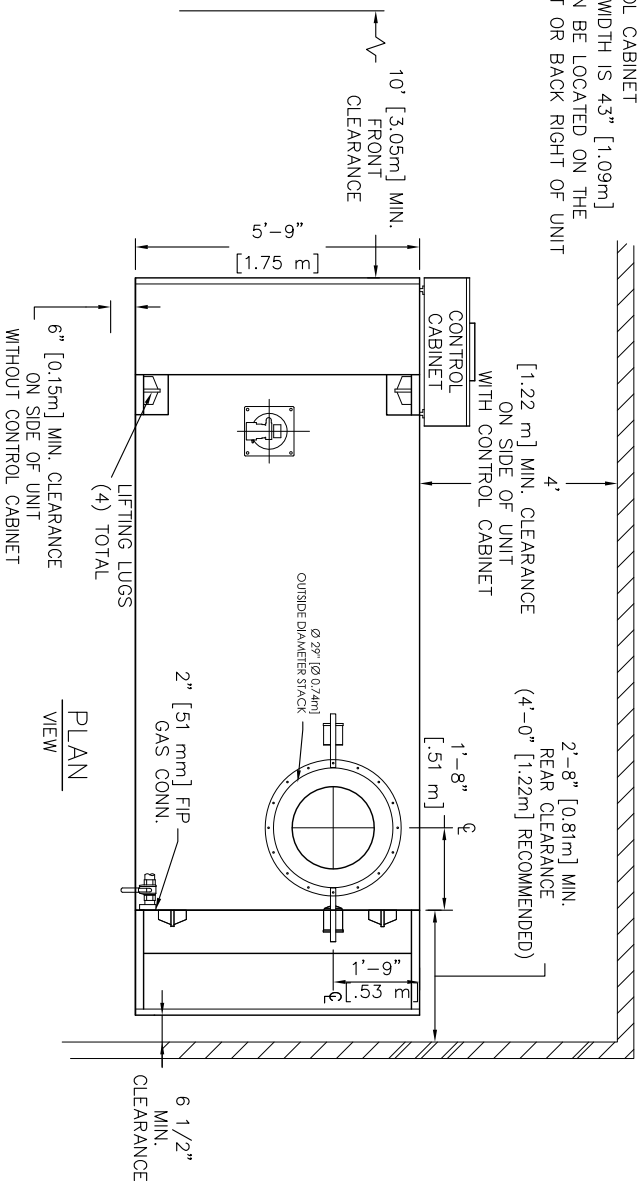
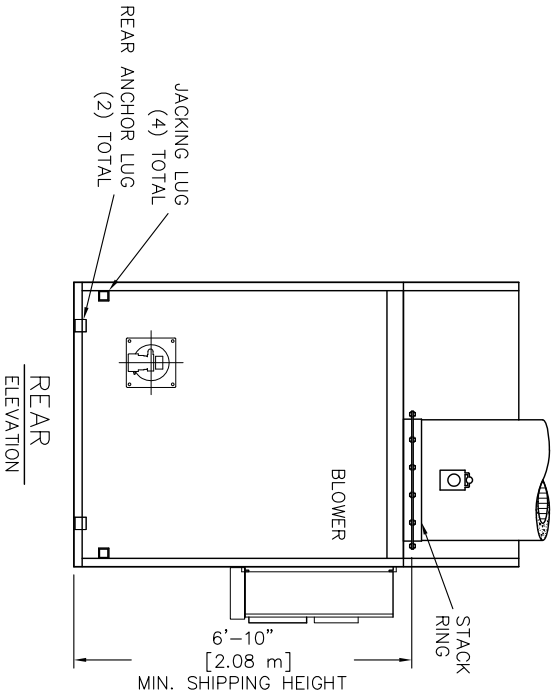
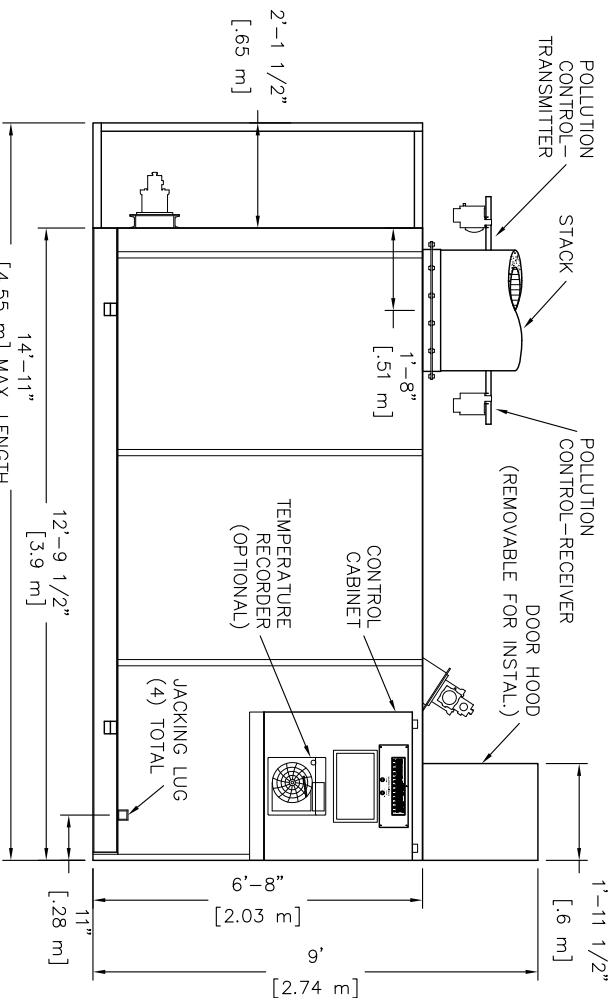
24. Automatic Timer Functions
- A. Master Cycle Included
 - B. Afterburner (Secondary Burner) Included
 - C. Cremation Burner Included
 - D. Low Fire Cremation Burner Included
 - E. Hearth Air Included
 - F. Throat Air Included
 - G. Pollution Monitoring Included
 - H. Afterburner (Secondary Burner) Prepurge Included
 - I. Cremation Burner Prepurge Included
 - J. Cool Down Included
25. Exterior Finish
- A. Primer 2 coats rust inhibiting
 - B. Finish 2 coats textured finish
26. Start-Up and Training..... Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.
27. Environmental Submittals Complete technical portion of state environmental permits. Engineering calculations, technical data, existing stack test results and equipment blueprints provided.



NOTES:

- 1) CONTROL CABINET CAN BE MOUNTED ON THE LEFT OR RIGHT SIDE, OR REMOTELY
- 2) MAIN ELECTRICAL CONNECTION LOCATED IN CONTROL CABINET
- 3) CHAMBER WIDTH IS 43" [1.09m]
- 4) STACK CAN BE LOCATED ON THE BACK LEFT OR BACK RIGHT OF UNIT

LEFT SIDE ELEVATION



Matthews

ENVIRONMENTAL SOLUTIONS

2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II PLUS

PLAN & ELEVATIONS INCL: CLEARANCES,

REQUIREMENTS & RECOMMENDATIONS

DRAWN BY:	JG	DATE:	02.26.2015	REVISION:	
APPROVED BY:	-	DATE:	07.21.2017	REVISION:	1 REMOVE MAIN ELEC FROM TOP OF UNIT
SCALE:	1/4" = 1'-0"	SHEET:	2	09.20.2017	CHANGED MIN. FRONT CLEAR. TO 10'
DWG FILE:					
DWG NUMBER:	\$(GETVAR,??)				

CREMATOR CLEARANCES

RECOMMENDED	MINIMUM
TOP: ② CABINET SIDE: 4 FEET OTHER SIDE: 2 FEET FRONT: 10+ FEET REAR: 4 FEET STACK: 6 INCHES	[610 mm] [152 mm] 4 FEET [1,22 m] 6 INCHES [152 mm] 10 FEET [3,05 m] 32 INCHES [812 mm] 6 INCHES [152 mm]
1. FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MES REP.	
② FROM HIGHEST POINT ON UNIT.	
3. CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY. (SEE PLAN VIEW, SHEET 1).	
4. REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPERSHIELD". (SEE PLAN VIEW, SHEET 1).	

CREMATOR REQUIREMENTS

FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 11" [279 mm] W.C. FOR NATURAL GAS AND LP GAS.

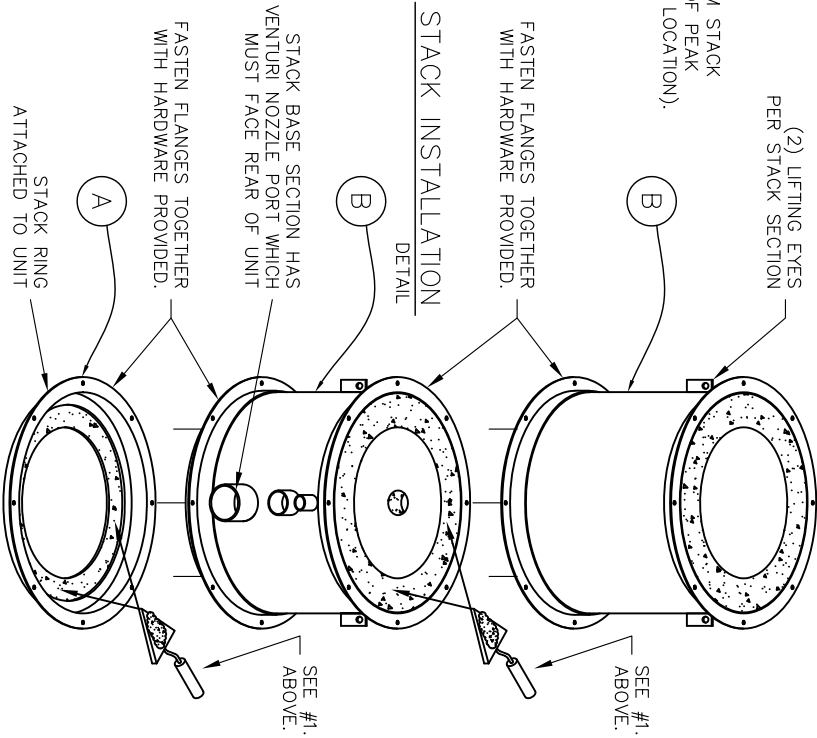
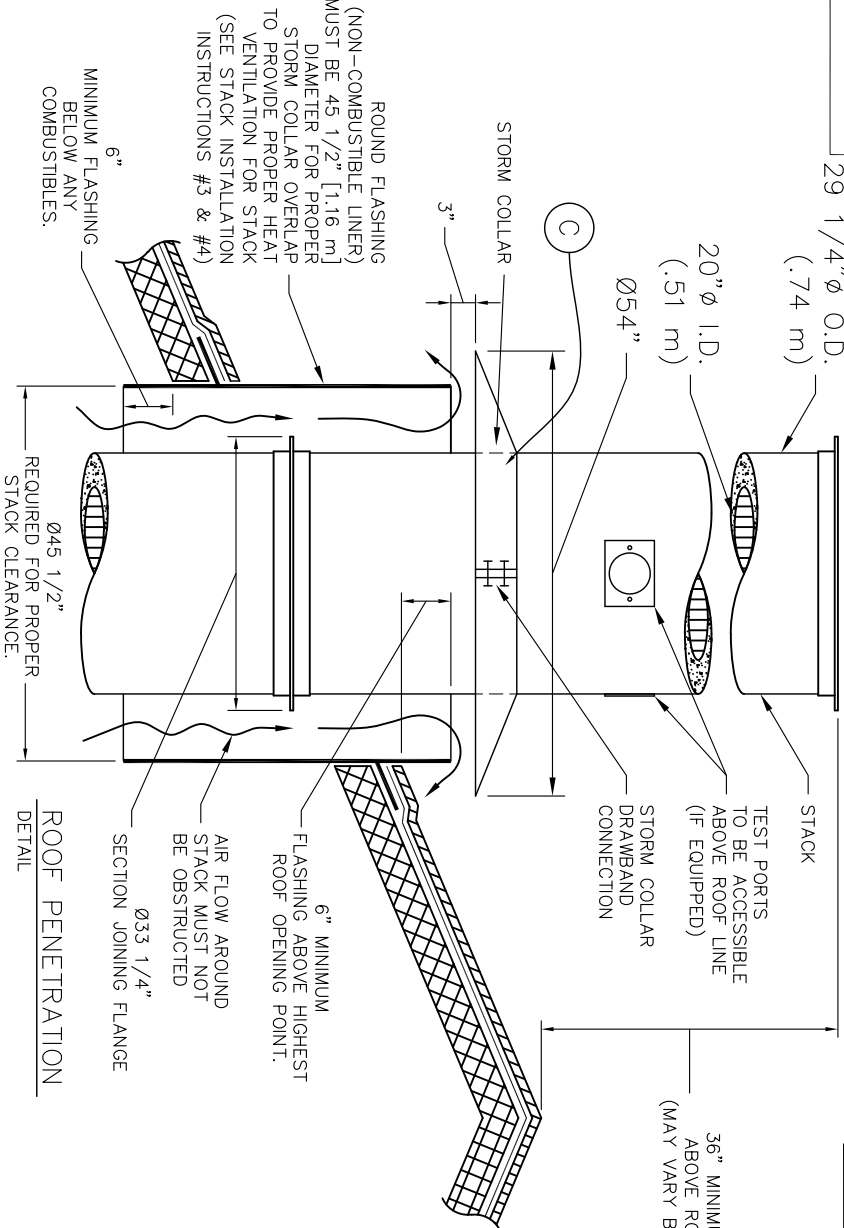
CAPACITY: 3.0 MILLION BTU/HR [3.1 MILLION KILOJOULES/HR]

ELECTRICAL: 230 VOLT, 3Ø, (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT, 1Ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

STACK INSTALLATION INSTRUCTIONS

1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION ② ONTO STACK RING ① AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BE LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANGES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
2. INSTALL STORM COLLAR ON STACK, 3" [76 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
3. APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MES) TO THE JOINT BETWEEN THE STORM COLLAR ③ AND THE STACK ②.
4. STORM COLLAR IS FURNISHED BY MES. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
5. IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MES REP.
6. RAIN CAP NOT REQUIRED.



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Matthews
ENVIRONMENTAL SOLUTIONS
2045 Sprint Boulevard
Apopka, Florida 32703
USA

POWER-PAK II PLUS
STACK DETAILS, CLEARANCES &
INSTALLATION INSTRUCTIONS.
REFRACTORY STACK DETAIL

DRAWN BY: JG
APPROVED BY: -
SCALE: 1/2" = 1'-0"
DWG FILE: -
DWG NUMBER: \$(GETVAR,??)

DATE: 03.14.2014
DATE: 09.20.2017
OF: -
SHEET: 1
REVISION: 1

CHANGED MIN. FRONT CLEAR. TO 10"

CREMATOR MASS BALANCE

Matthews Environmental Solutions

PPII Plus

THESE CALCULATIONS HAVE BEEN PREPARED TO EVALUATE THE COMBUSTION PROCESS IN THIS UNIT.

THE INCINERATOR INSTITUTE OF AMERICA HAS PUBLISHED THE FOLLOWING SPECIFICATIONS COVERING AVERAGE WASTES.

WASTE TYPE	TYPE 0	TYPE 4
BTU PER POUND	8500	1000
POUND ASH PER POUND WASTE	0.05	0.05
POUND MOISTURE PER POUND WASTE	0.1	0.85
POUND COMBUSTIBLES PER POUND WASTE	0.85	0.1
HOURLY CONSUMPTION OF WASTE (LBS)	10	165

1. MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER

A. COMBUSTION AIR

$$\frac{8500 \text{ BTU/LB}}{100 \text{ BTU/CF OF AIR}^*} \times 0.075 \text{ LB/CF OF AIR} = 6.38 \text{ LB/LB BURNED}$$

B. COMBUSTIBLES AND WATER VAPOR

$$\text{FROM CHART ABOVE} = 0.95 \text{ LB/LB BURNED}$$

C. TOTAL FLUE PRODUCT MASS PER LB BURNED

$$= 7.33 \text{ LB/LB BURNED}$$

2. MASS OF PRODUCTS OF COMBUSTION FROM BODY

A. COMBUSTION AIR

$$\frac{1000 \text{ BTU/LB}}{100 \text{ BTU/CF OF AIR}^*} \times 0.075 \text{ LB/CF OF AIR} = 0.75 \text{ LB/LB BURNED}$$

B. COMBUSTIBLES AND WATER VAPOR

$$\text{FROM CHART ABOVE} = 0.95 \text{ LB/LB BURNED}$$

C. TOTAL FLUE PRODUCT MASS PER LB BURNED

$$= 1.70 \text{ LB/LB BURNED}$$

SPECIFICATIONS	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	1
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	1.2
ADDITIONAL SECONDARY AIR SUPPLIED (CFM)	200
SEC. CHAMBER OPERATING TEMPERATURE (°F)	1600
SECONDARY CHAMBER VOLUME (CU. FT)	96
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.76
FLAME PORT AREA (SQ. FT)	2.95
MIXING BAFFLES AREA (SQ. FT)	1.36

*AIR AT STANDARD CONDITIONS

3. TOTAL FLUE PRODUCTS

A. MAXIMUM PRIMARY BURNER GAS USAGE

$$1000000 \text{ BTU/HR} \times 4.8\text{E-}05 \text{ LBS/BTU} = 48 \text{ LBS/HR}$$

B. COMBUSTION AIR FOR PRIMARY BURNER

$$\frac{1000000 \text{ BTU/HR}}{100 \text{ BTU/CF AIR}} \times \frac{1}{\text{Burner}} \times 0.075 \text{ LB/CF AIR} = 750 \text{ LBS/HR}$$

C. MAXIMUM SECONDARY BURNER GAS USAGE

$$1200000 \text{ BTU/HR} \times 4.8\text{E-}05 \text{ LBS/BTU} = 58 \text{ LBS/HOUR}$$

D. COMBUSTION AIR FOR SECONDARY BURNER

$$\frac{1200000 \text{ BTU/HR}}{100 \text{ BTU/CF AIR}} \times \frac{1 \text{ Burner}}{1} \times 0.075 \text{ LB/CF AIR} = 900 \text{ LBS/HOUR}$$

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)

$$7.33 \text{ LBS/LB BURNED} \times 10 \text{ LB/HR BURN RATE} = 73 \text{ LBS/HOUR}$$

F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)

$$1.70 \text{ LBS/LB WASTE} \times 165 \text{ LB/HR BURN RATE} = 281 \text{ LBS/HOUR}$$

G. ADDITIONAL SECONDARY CHAMBER COMBUSTION AIR (THROAT AIR)

$$12000 \text{ CF/HR*} \times 0.075 \text{ LB/CF AIR} = 900 \text{ LBS/HOUR}$$

H. TOTAL FLUE PRODUCTS

$$= \underline{\underline{3009 \text{ LBS/HOUR}}}$$

2. VELOCITY AND TIME CALCULATIONS

A. SCFM CALCULATION

(PRODUCTS ASSUMED TO HAVE DENSITY CLOSE TO AIR)

$$3009 \text{ LBS/HR} \times \frac{13.35 \text{ STD. CU. FT/LB}}{60 \text{ MIN/HR}} = 670 \text{ SCFM}$$

B. TOTAL PRODUCTS ACFM @ 1600 °F

$$\frac{2060 \text{ °RANKINE}}{530 \text{ °RANKINE}} \times 669.6 \text{ CFM} = 2603 \text{ ACFM}$$

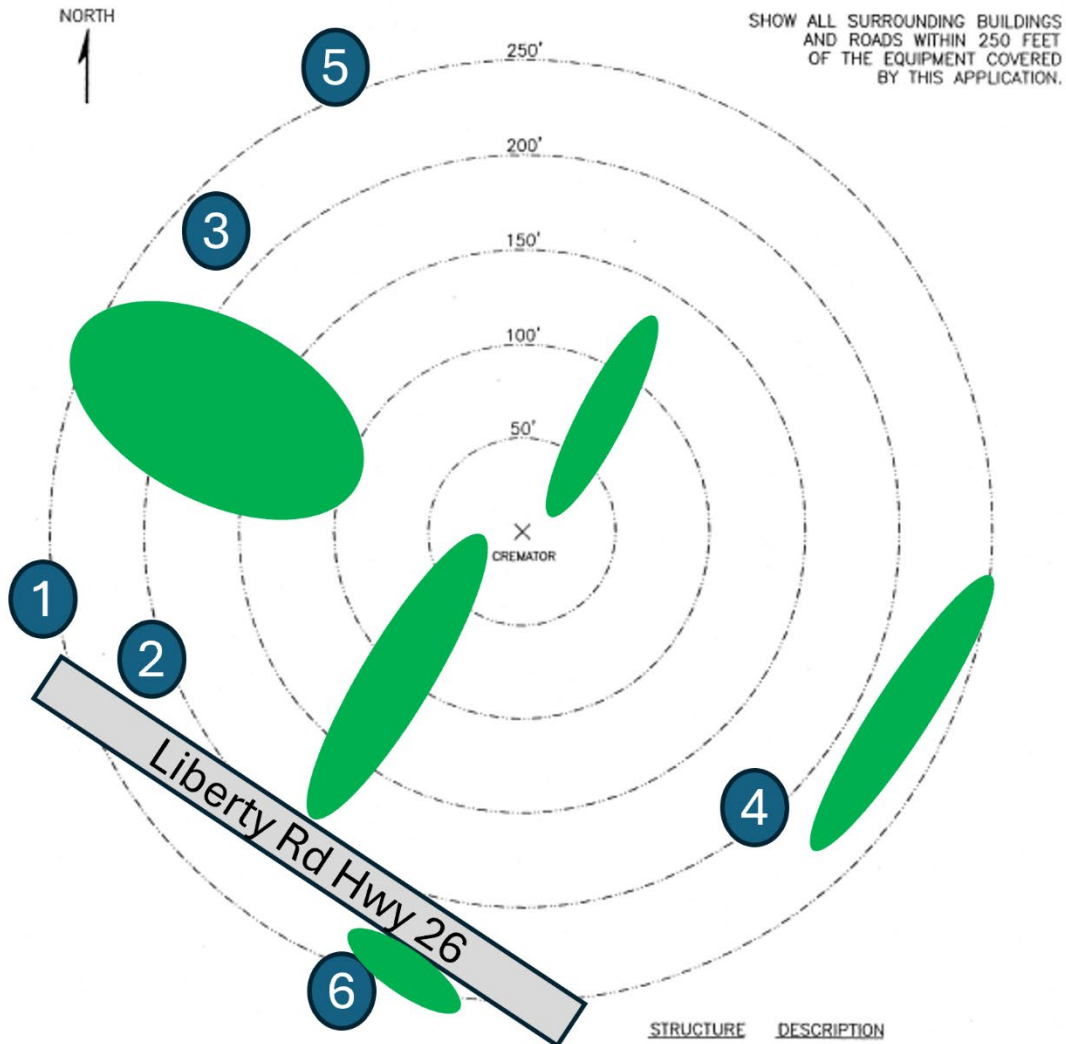
C. RETENTION TIME

$$\frac{96 \text{ CU. FT}}{2603 \text{ ACFM}} \times \frac{60 \text{ SECONDS}}{1 \text{ MINUTE}} = 2.21 \text{ SECONDS}$$

ATTACHMENT G

PLOT OF LAND USE WITHIN 250 ft OF THE CREMATORIUM

PLOT PLAN OF LAND USE WITHIN 250 ft OF THE CREMATORIAL



INSTRUCTIONS

1. INDICATE LOCATION AND TYPE OF BUILDING BY THE USE OF SMALL NUMBERED CIRCLES WITH THE DESCRIPTION BELOW.
2. SHOW ROADS AS LINES REPRESENTING THE ROAD EDGES. INDICATE STREET NAMES AND HIGHWAY NUMBERS.
3. SHOW WOODED OR CLEARED AREA BY APPROXIMATE BOUNDARY LINES AND THE WORDS "WOODS," "CLEARED," "CORNFIELD," ETC.

STRUCTURE DESCRIPTION

- (1) One Story Residential Home
- (2) One Story Residential Home
- (3) Two Story Residential Home
- (4) Wylie Funeral Home PA
- (5) Two Story Residential Home
- (6) One Story Residential Home
- (7)
- (8)
- (9)
- (10)

Woods

ATTACHMENT H
EVIDENCE OF WORKERS COMP

SELECTIVE
INSURANCE®

POLICY DOCUMENT

WC 9146923

INSURED'S COPY

SELECTIVE INSURANCE
BRANCHVILLE, NEW JERSEY 07890

POLICY SCHEDULE

ISSUE DATE: 01/03/2025

Policy No WC 9146923	Issued To WYLIE FUNERAL HOME PA	
Period 02/01/2025 02/01/2026	Transaction Type RENEWAL	Agent Number 00-03753-00000
Billing Type DIRECT BILL	Transaction Eff. Date 02/01/2025	Number of Remaining Installments 12

BILL ACCOUNT: 519 006 472

PAYMENT WILL BE BILLED AS FOLLOWS:

	SCHEDULED BILL DATE	SCHEDULED DUE DATE	PREMIUM AMOUNTS
01.	01/13/2025	02/02/2025	438.00
02.	02/10/2025	03/02/2025	438.00
03.	03/13/2025	04/02/2025	438.00
04.	04/11/2025	05/02/2025	438.00
05.	05/13/2025	06/02/2025	438.00
06.	06/12/2025	07/02/2025	438.00
07.	07/13/2025	08/02/2025	438.00
08.	08/13/2025	09/02/2025	438.00
09.	09/12/2025	10/02/2025	438.00
10.	10/13/2025	11/02/2025	438.00
11.	11/12/2025	12/02/2025	438.00
12.	12/12/2025	01/02/2026	444.00
		TOTAL	\$5,262.00

THIS IS NOT A BILL.

Your bill will be sent under separate cover. This is a Payment Schedule of your policy premium due based on your selected installment plan. Changes made to the policy premium after the issue date listed above, will be reflected on future bills.

An installment fee of \$8.00 may be added to each installment bill. Policies not paid by the installment due date are subject to a late fee of \$10.00 for each late payment. An insufficient fund fee of \$30.00 will be charged for payments returned by your financial institution.

MISC-1591 (02/16)

INSURED'S COPY

100000WC 9146923559

MARYLAND DEPARTMENT OF THE ENVIRONMENT

**AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT**

**SUPPLEMENT TO
DOCKET #10-25**

COMPANY: Wylie Funeral Homes, P.A.

LOCATION: 9200-9206 Liberty Road
Randallstown, MD 21133

APPLICATION: One (1) Matthews Environmental Solutions Power Pak II Plus Human
Crematory rated at 175 lbs per hour

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Tentative Determination, Public Hearing, and Opportunity to Submit Written Comments
2	Fact Sheet and Tentative Determination
3	Draft Permit to Construct and Conditions
4	Supplemental Information References List
4	Privilege Log - Not Applicable

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION**

**NOTICE OF TENTATIVE DETERMINATION, PUBLIC HEARING, AND
OPPORTUNITY TO SUBMIT WRITTEN COMMENTS**

FIRST NOTICE

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of an application for a Permit to Construct submitted by Wylie Funeral Homes, P.A. on June 12, 2025 for the installation of one (1) Matthews Environmental Solutions Power Pak II Plus Human Crematory rated at 175 lbs/hr. The proposed installation will be located at 9200-9206 Liberty Road, Randallstown, MD 21133.

Pursuant to Section 1-604, of the Environment Article, Annotated Code of Maryland, the Department has made a tentative determination that the Permit-to-Construct can be issued. A final determination on issuance of the permit will only be made after review of all pertinent information presented at the public hearing or received in written comments. Copies of the Department's tentative determination, the application, the draft permit to construct with conditions, and other supporting documents are available for public inspection on the Department's website. Look for Docket #10-25 at the following link:

<https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx>

In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the project is located. The EJ Score, expressed as a statewide percentile, was shown to be 34.5, which the Department has verified. This score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution. The Department's review of the factors contributing to the score is included in the tentative determination that is available for public inspection.

The issuance of the Permit-to-Construct for this facility will be the subject of a Public Hearing to be held on August 4, 2026 from 6:00 PM to 7:30 PM at the Randallstown Branch of the Baltimore County Public Library located at 8604 Liberty Road, Randallstown, MD 21133. You may also participate in the hearing virtually. Please register to attend using the following link:

<https://forms.gle/ySvQMavxVD9Qf3Bg9>

Registered attendees will receive instructions on how to join virtually using your computer or telephone on the day of the hearing.

Persons who wish to make a statement concerning this application at the hearing are requested to provide the Department with a copy of their statement. In lieu of oral statements at the hearing, written comments may be submitted at the time of the hearing or to the Department no later than 30 days from the date of this notice or within 5 days after the hearing, whichever is later.

Interested persons may request an extension to the public comment period. The extension request must be submitted in writing and must be received by the Department no later than 30 days from the date of this notice or within 5 days after the hearing, whichever is later. The public comment period may only be extended one time for a 60-day period.

All requests for an extension to the public comment period and all written comments should be directed to the attention of Ms. Shannon Heafey, by email to shannon.heafey@maryland.gov or by mail to the Air and Radiation Administration, 1800 Washington Boulevard, Baltimore, Maryland 21230.

This hearing location is accessible to individuals with disabilities as defined under the Americans with Disabilities Act (ADA). Individuals who require reasonable accommodation or a language interpreter to participate in the meeting should contact the Department by email at mde.accommodations@maryland.gov or call 410-537-3152 (MD Relay TTY: 7-1-1) at least 5 business days in advance of the hearing. Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

**MARYLAND DEPARTMENT OF ENVIRONMENT
AIR AND RADIATION ADMINISTRATION**

**FACT SHEET AND TENTATIVE DETERMINATION
WYLIE FUNERAL HOME, P.A.**

PROPOSED INSTALLATION OF ONE (1) HUMAN CREMATORY

I. INTRODUCTION

The Maryland Department of the Environment (the "Department") received an application from Wylie Funeral Home, P.A. on October 8, 2025, for a Permit to Construct for the installation of one (1) Matthews ES PPII Plus, 175 pounds per hour, human crematory. The proposed installation will be located at 9200-9206 Liberty Road Randallstown, MD 21133.

A notice was placed in The Baltimore Sun on November 2, 2025, and November 9, 2025, announcing a scheduled informational meeting to discuss the permit to construct application. The informational meeting was held on Thursday, November 20, 2025, at Baltimore County Public Library, Randallstown Branch, 8604 Liberty Road, Randallstown, MD 21133.

As required by law, all public notices were also provided to elected officials in all State, county, and municipality legislative districts located within a one-mile radius of the facility's property boundary.

The Department has reviewed the application and has made a tentative determination that the proposed facility is expected to comply with all applicable air quality regulations. A public hearing has been scheduled for August 4, 2026 from 6:00 PM to 7:30 PM at the Randallstown Branch of the Baltimore County Public Library located at 8604 Liberty Road, Randallstown, MD 21133 to provide interested parties an opportunity to comment on the Department's tentative determination and draft permit conditions, and/or to present other pertinent concerns about the proposed facility. Notices concerning the date, time and location of the public hearing will be published in the legal section of a newspaper with circulation in general area of the proposed facility. Interested parties may also submit written comments.

If the Department does not receive any comments that are adverse to the tentative determination, the tentative determination will automatically become a final determination. If adverse comments are received, the Department will review the comments, and will then make a final determination with regard to issuance or denial of the permit. A notice of final determination will be published in a newspaper of general circulation in the affected area. The final determination may be subject to judicial review pursuant to Section 1-601 of the Environment Article, Annotated Code of Maryland.

II. PROPOSED INSTALLATION

Wylie Funeral Home is proposing to install one (1) 175 pounds per hour, Matthews ES PPII Plus human crematory, fired with natural gas, at their facility.

The Matthews ES PPII Plus human crematory will be equipped with a secondary combustion chamber capable of meeting at least a 1.0 second retention time and a minimum operating temperature of 1600 °F. The crematory must also be equipped with temperature sensors and monitors to continuously measure and record the temperature of the secondary combustion chamber. The unit must also be equipped with an opacity sensor interlocked with a control system that continuously monitors the stack gases for visible emissions during operation and adjusts cremation operations to prevent visible emissions from exiting the crematory stack. Exhaust gases must be vented out of a stack at a height of at least 30 feet from the ground to ensure proper dispersion of exhaust gases.

III. APPLICABLE REGULATIONS

The proposed installation is subject to all applicable Federal and State air quality control regulations, including, but not limited to the following:

- (a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.
- (b) COMAR 26.11.02.13A(1), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State permit-to-operate.
- (c) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in the submittals.
- (d) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
- (e) COMAR 26.11.08.04B, which prohibits visible emissions other than uncombined water.

Exceptions. The requirements do not apply to emissions during start-up, or adjustments or occasional cleaning of control equipment if:

- (1) The visible emissions are not greater than 40 percent opacity; and

- (2) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.
- (f) COMAR 26.11.08.05B(2)(a), which limits the concentration of particulate matter in any exhaust gases to not more than 0.10 grains per standard cubic foot of dry exhaust gas.
- (g) COMAR 26.11.15.05, which requires that the Permittee implement “Best Available Control Technology for Toxics” (T – BACT) to control emissions of toxic air pollutants.
- (h) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

IV. GENERAL AIR QUALITY

The U.S. Environmental Protection Agency (EPA) has established primary and secondary National Ambient Air Quality Standards (NAAQS) for six (6) criteria pollutants, i.e., sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, ozone, and lead. The primary standards were established to protect public health, and the secondary standards were developed to protect against non-health effects such as damage to property and vegetation.

The Department utilizes a statewide air monitoring network, operated in accordance with EPA guidelines, to measure the concentrations of criteria pollutants in Maryland’s ambient air. The measurements are used to project statewide ambient air quality, and currently indicate that Baltimore County complies with the NAAQS for sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, and lead.

Ground level ozone continues to present a problem for the entire Baltimore metropolitan area, which is classified as a non-attainment area for ozone. The primary contributors to the formation of ozone are emissions of oxides of nitrogen, primarily from combustion equipment, and emissions of Volatile Organic Compounds (VOC) such as paint solvents and gasoline vapors. Baltimore County is included in the non-attainment area for ozone.

With regard to toxic air pollutants (TAPs), screening levels (i.e., acceptable ambient concentrations for toxic air pollutants) are generally established at 1/100 of allowed worker exposure levels (TLVs)¹. The Department has also developed additional screening levels for carcinogenic compounds. The additional screening levels are established such that continuous exposure to the subject TAP at the screening level for a period of 70 years is expected to cause an increase in lifetime cancer risk of no more than 1 in 100,000.

¹ TLVs are threshold limit values (exposure limits) established for toxic materials by the American Conference of Governmental Industrial Hygienists (ACGIH). Some TLVs are established for short-term exposure (TLV – STEL), and some are established for longer-term exposure (TLV – TWA), where TWA is an acronym for time-weight average.

V. ENVIRONMENTAL JUSTICE ANALYSIS

The concept behind the term environmental justice (EJ) is that regardless of race, color, national origin, or income, all Maryland residents and communities should have an equal opportunity to enjoy an enhanced quality of life. How to assess whether equal protection is being applied is the challenge.

Communities surrounded by a disproportionate number of polluting facilities puts residents at a higher risk for health problems from environmental exposures. It is important that residents who may be adversely affected by a proposed source be aware of the current environmental issues in their community in order to have meaningful involvement in the permitting process. Resources may be available from government and private entities to ensure that community health is not negatively impacted by a new source located in the community.

Extensive research has documented that health disparities exist between demographic groups in the United States, such as differences in mortality and morbidity associated with factors that include race/ethnicity, income, and educational attainment.

The Maryland General Assembly passed HB 1200, effective October 1, 2022, that adds to MDE's work into our mission to help overburdened and underserved communities with environmental issues. In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the source is located. The EJ Score, expressed as a statewide percentile, was shown to be 34.5 which the Department has verified. This score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution.

To account for other sources of pollution surrounding the proposed source, the Department conducted an additional EJ Score analysis to evaluate the impact of other sources located within 1 mile of the proposed source. The highest EJ Score in a census tract located within 1 mile of the proposed source, expressed as a statewide percentile, was shown to be 34.5.

An EJ Score of 34.5 indicates that the proposed installation is located in an area that is not disproportionately impacted by sources of pollution or at a higher risk of health problems from environmental exposures than other areas in Maryland. The Department has reviewed the air quality impacts from this proposed installation and has determined that the proposed installation will meet all applicable air quality standards.

VI. COMPLIANCE DEMONSTRATION AND ANALYSIS

The proposed installation must comply with all State imposed emissions limitations and screening levels, as well as the NAAQS. The Department has conducted an engineering and air quality review of the application. The emissions were projected based on U.S. EPA-approved emissions factors for crematory operations. The conservative U.S. EPA's SCREEN3 model was also used to project the maximum ground level concentrations from the proposed installation, which were then compared to the screening levels and the NAAQS.

A. Estimated Emissions - The maximum emissions of criterial pollutants from the proposed

installation, including the proposed installation, are listed in Table I.

- B. Compliance with National Ambient Air Quality Standards** - The maximum ground level concentrations for particulate matter, sulfur dioxide, oxides of nitrogen, and carbon monoxide based on the emissions from the proposed installation, are listed in column 2 of Table II. The combined impact of the proposed installation, and the ambient background concentration for each pollutant shown in column 3 of Table II, is less than the NAAQS for each pollutant shown in column 4.
- C. Compliance with Air Toxics Regulations** – The premises wide toxic air pollutants of concern that would be emitted from this facility are listed in column 1 of Table III. The predicted maximum off-site ambient concentrations of these toxic air pollutants are shown in column 4 of Table III, and in each case the maximum concentration is less than the corresponding screening level for the toxic air pollutant shown in column 3.

VII. TENTATIVE DETERMINATION

Based on the above information, the Department has concluded that the proposed installation will comply with all applicable Federal and State air quality control requirements. In accordance with the Administrative Procedure Act, the Department has made a tentative determination to issue the Permit to Construct.

Enclosed with the tentative determination is a copy of the draft Permit to Construct.

TABLE I
PROJECTED MAXIMUM EMISSIONS FROM THE PROPOSED INSTALLATION

POLLUTANT	PROJECTED MAXIMUM EMISSIONS	
	(lbs/day)	(tons/year)
Oxides of Nitrogen (NO _x) (includes Nitrogen Dioxide – NO ₂)	6.8	1.2
Carbon Monoxide (CO)	5.6	1.03
Sulfur Dioxide (SO ₂)	2.0	0.36
Total Particulate Matter (PM) (includes PM-10 and PM-2.5)	3.0	0.55
Volatile Organic Compounds (VOC)	2.9	0.53

TABLE II
PROJECTED IMPACT OF EMISSIONS OF CRITERIA POLLUTANTS FROM THE PROPOSED INSTALLATION ON AMBIENT AIR QUALITY

POLLUTANTS	MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS CAUSED BY EMISSIONS FROM PROPOSED PROCESS (µg/m ³)	BACKGROUND AMBIENT AIR CONCENTRATIONS (µg/m ³)*	NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) (µg/m ³)
Nitrogen Dioxide (NO ₂)	1-hour max → 13.2 annual avg → 1.1	1-hour max → 87 annual avg → 26	1-hour max → 188 annual avg → 100
Carbon Monoxide (CO)	1-hour max → 10.9 8-hour max → 7.6	1-hour max. → 1,718 8-hour max. → 1,375	1-hour max. → 40,000 8-hour max. → 10,000
Sulfur Dioxide (SO ₂)	1-hour max → 3.8	1-hour max → 4.4	1-hour max → 196
Particulate Matter (PM ₁₀)	24-hour max → 2.1	24-hour max. → 38	24-hour max. → 150
Particulate Matter (PM _{2.5})	24-hr max. → 1.4 annual avg. → 0.3	24-hr avg. → 18 annual avg. → 7.7	24-hr max → 35 annual avg. → 9

*Background concentrations were obtained from Maryland air monitoring stations as follows:

NO₂ → Monitoring Station in Lochearn, Baltimore County
PM₁₀ and PM_{2.5} → Monitoring Station in Old Town, Baltimore City
CO and SO₂ → Monitoring Station in Essex, Baltimore County

TABLE III
PREDICTED MAXIMUM OFF-SITE AMBIENT CONCENTRATIONS FOR
TOXIC AIR POLLUTANTS EMITTED FROM THE FACILITY

Toxic Air Pollutant	PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)	SCREENING LEVELS (µg/m³)	PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS (µg/m³)
Acenaphthene (CAS No. 83329)	0.0000001	20.3 (8-hr)	0.0000018 (8-hr)
Acenaphthylene (CAS No. 208968)	0.0000008	24.6 (8-hr)	0.000011 (8-hr)
Acetaldehyde (CAS No. 75070)	0.00016	450 (1-hr) 2300 (8-hr) 5 (annual)	0.0076 (1-hr) 0.0023 (8-hr) 0.00026 (annual)
Anthracene (CAS No. 120127)	0.0000004	20 (8-hr)	0.000005 (8-hr)
Antimony (CAS No. 7440360)	0.000035	5 (8-hr)	0.0005 (8-hr)
Arsenic (CAS No. 7440382)	0.00007	0.1 (8-hr) 0.002 (annual)	0.001 (8-hr) 0.00012 (annual)
Barium (CAS No. 7440393)	0.00003	5 (8-hr)	0.0004 (8-hr)
Benzo (g,h,i) perylene (CAS No. 191242)	0.00000005	20 (8-hr)	0.0000007 (8-hr)
Beryllium (CAS No. 7440417)	0.000003	0.0005 (8-hr) 0.004 (annual)	0.00004 (8-hr) 0.000005 (annual)
Cadmium (CAS No. 7440439)	0.00026	0.02 (8-hr) 0.006 (annual)	0.004 (8-hr) 0.0004 (annual)
Chromium (CAS No. 7440473)	0.000035	5 (8-hr)	0.0005 (8-hr)
Chromium VI (CAS No. 18540299)	0.000016	0.01 (8-hr) 0.0008 (annual)	0.0002 (8-hr) 0.00003 (annual)
Cobalt (CAS No. 7440484)	0.000016	0.2 (8-hr)	0.0002 (8-hr)
Copper (CAS No. 7440508)	0.000034	2 (8-hr)	0.0005 (8-hr)
Fluoranthene (CAS No. 206440)	0.00000024	82 (8-hr)	0.000003 (8-hr)
Fluorene (CAS No. 86737)	0.0000005	20 (8-hr)	0.000007 (8-hr)
Formaldehyde (CAS No. 50000)	0.00004	20.3 (8-hr) 0.8 (annual)	0.0005 (8-hr) 0.00006 (annual)
Hydrogen Chloride (CAS No. 7647010)	0.35	29.8 (1-hr) 165 (8-hr)	16.4 (1-hr) 4.93 (8-hr)
Hydrogen Fluoride (CAS No. 7664393)	0.0013	16.4 (1-hr) 4.1 (8-hr)	0.062 (1-hr) 0.019 (8-hr)
Lead (CAS No. 7439921)	0.0018	0.5 (8-hr)	0.03 (8-hr)
Mercury (CAS No. 7439976)	0.0062	0.1 (8-hr)	0.086 (8-hr)
Molybdenum (CAS No. 7439987)	0.00002	5 (8-hr)	0.00027 (8-hr)
Naphthalene (CAS No. 91203)	0.00008	786 (1-hr) 524 (8-hr)	0.0037 (1-hr) 0.0011 (8-hr)

Toxic Air Pollutant	PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)	SCREENING LEVELS (µg/m³)	PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS (µg/m³)
Nickel (CAS No. 7440020)	0.000045	1 (8-hr)	0.0006 (8-hr)
Phenanthrene (CAS No. 85018)	0.000003	9.8 (8-hr)	0.00004 (8-hr)
Pyrene (CAS No. 129000)	0.0000002	20 (8-hr)	0.000003 (8-hr)
Selenium (CAS No. 7782492)	0.00005	2 (8-hr)	0.0007 (8-hr)
Silver (CAS No. 7440224)	0.0000085	0.1 (8-hr)	0.0001 (8-hr)
Thallium (CAS No. 7440280)	0.0001	0.2 (8-hr)	0.0014 (8-hr)
Vanadium (CAS No. 7440622)	0.000068	0.5 (8-hr)	0.00095 (8-hr)
Zinc (CAS No. 7440666)	0.000475	1000 (1-hr) 500 (8-hr)	0.022 (1-hr) 0.0067 (8-hr)
Total Dioxins and Furans (CAS No. 174016)	0.0000000016	0.0008 (8-hr)	0.00000002 (8-hr)

The values represent maximum facility-wide emissions of toxic air pollutants during any 1-hour period of facility operation.

The values are based on worst-case emissions from the proposed facility and were predicted by EPA's SCREEN3 model, which provides conservative estimations concerning the impact of pollutants on ambient air quality.

DRAFT PERMIT

Wes Moore

Serena McIlwain

Air and Radiation Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

☒ Construction Permit

☐ Operating Permit

PERMIT NO.
005-3016-1-0212

DATE ISSUED:

PERMIT FEE:
1500.00

EXPIRATION DATE:
In accordance with
COMAR 26.11.02.04B

LEGAL OWNER & ADDRESS

Wylie Funeral Homes, PA
9200-9206 Liberty Road
Randallstown, MD 21133
Attention: Mr. Brandon M. Wylie, Owner

SITE

Wylie Funeral Homes, PA
9200-9206 Liberty Road
Randallstown, MD 21133
AI # 82806

SOURCE DESCRIPTION

This permit authorizes the installation of one (1) human crematory.

This permit serves as a temporary permit to operate for a period of 180 days after initial start-up of the crematory.

This source is subject to the conditions described on the attached pages.

WYLIE FUNERAL HOMES, P.A.
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 005-3016

INDEX

Part A – General Provisions
Part B – Applicable Regulations
Part C – Construction Conditions
Part D – Operating and Monitoring Conditions
Part E – Notifications and Testing
Part F – Record Keeping and Reporting
Part G – Temporary Permit-To-Operate Conditions

This permit covers the following registered installation:

ARA Registration No.	Description	Installation Date
005-3016-1-0212	Matthews Environmental Solutions; PPII Plus (3.0 MMBTU/hr) / Multi-Chamber cremation unit	To be installed

Part A – General Provisions

- (1) The following Air and Radiation Administration (ARA) permit-to-construct application forms and supplemental information are incorporated into this permit by reference:
- (a) Application for Processing or Manufacturing Equipment (Form 5) received October 8, 2025.
 - (b) Emission Point Data (Form 5EP) received October 8, 2025.
 - (c) Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration (Form 5A & 5T) received October 8, 2025.
 - (d) Supplemental Information, emissions calculations, screen modeling results, plot plan, environmental justice report, flow diagram, and equipment specifications received October 8, 2025.

If there are any conflicts between representations in this permit and representations in the applications, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the applications do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.

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PREMISES No. 005-3016

- (2) Upon presentation of credentials, representatives of the Maryland Department of the Environment (“MDE” or the “Department”), the Baltimore County Health Department, and the Baltimore County Department of Environmental Protection & Sustainability shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee’s property and permitted to:
- (a) inspect any construction authorized by this permit;
 - (b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;
 - (c) inspect any monitoring equipment required by this permit;
 - (d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit;
 - (e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit; and
 - (f) exercise its right of entry through use of an unmanned aircraft system to conduct inspections, collect samples, or make visual observations through photographic or video recordings to determine compliance with the requirements of this permit.
- (3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.
- (4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.
- (5) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.
- (6) Subsequent to issuance of this permit, the Department may impose additional and modified requirements that are incorporated into a State permit-to-operate issued pursuant to COMAR 26.11.02.13.

WYLIE FUNERAL HOMES, P.A.
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 005-3016

Part B – Applicable Regulations

- (1) This source is a crematory as defined in COMAR 26.11.08.01(9-1).
- (2) This source is located in Baltimore County, which is designated as an Area III pursuant to COMAR 26.11.01.03C.
- (3) This source is subject to all applicable federal air pollution control requirements.
- (4) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:
 - (a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.
 - (b) COMAR 26.11.02.04B, which states that a permit to construct or an approval expires if, as determined by the Department:
 - (i) Substantial construction or modification is not commenced within 18 months after the date of issuance of the permit or approval, unless the Department specifies a longer period in the permit or approval;
 - (ii) Construction or modification is substantially discontinued for a period of 18 months after the construction or modification has commenced; or
 - (iii) The source for which the permit or approval was issued is not completed within a reasonable period after the date of issuance of the permit or approval.
 - (c) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause changes in the quantity, nature, or characteristics of emissions from the installation as referenced in this permit.
 - (d) COMAR 26.11.08.04B, which prohibits visible emissions other than uncombined water.

Exceptions. The requirements do not apply to emissions during start-up, or adjustments or occasional cleaning of control equipment if:

- (i) The visible emissions are not greater than 40 percent opacity; and

WYLIE FUNERAL HOMES, P.A.
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 005-3016

- (ii) The visible emissions do not occur for more than 6 consecutive minutes in any 60-minute period.
 - (e) COMAR 26.11.08.05B(2)(a), which limits the concentration of particulate matter in any exhaust gases to not more than 0.10 grains per standard cubic foot of dry exhaust gas.
- (5) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:
 - (a) COMAR 26.11.02.13A(1), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State permit-to-operate.
 - (b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in such submittals.
 - (c) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
 - (d) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.
 - (e) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

Part C – Construction Conditions

- (1) Except as otherwise provided in this part, the Matthews ES PPII Plus, 175 pounds per hour, human crematory shall be constructed in accordance with specifications included in the incorporated applications and in accordance with the specifications provided by the vendor and manufacturer.
- (2) The crematory shall be designed to limit particulate matter emissions to no more than 0.10 grains per standard cubic foot dry, adjusted to 12 percent carbon dioxide.

WYLIE FUNERAL HOMES, P.A.
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 005-3016

- (3) The crematory shall be equipped with a secondary combustion chamber capable of achieving a retention time of at least 1.0 second, and an operating temperature of at least 1600 °F.
- (4) The crematory shall be equipped with temperature sensors and recorders to continuously monitor and record the temperature of the secondary combustion chamber during operation.
- (5) The crematory shall be equipped with an opacity sensor interlocked with a control system that continuously monitors the stack gases for visible emissions during operation and adjusts cremation operations to prevent visible emissions from exiting the crematory stack.
- (6) The stack height of the crematory stack shall be at least 30 feet above the ground.

Part D – Operating and Monitoring Conditions

- (1) Except as otherwise provided in this part, the Matthews ES PPII Plus, 175 pounds per hour, human crematory authorized by this permit shall be operated in accordance with specifications included in the application and any operating procedures recommended by equipment vendors unless the Permittee obtains from the Department written authorization for alternative operating procedures.
- (2) The Permittee shall comply with the following operational limitations unless the Permittee can demonstrate, to the satisfaction of the Department, that compliance with all applicable air quality regulations and standards can be achieved at other conditions:
 - (a) The Permittee shall only cremate human remains in the Matthews ES PPII Plus, 175 pounds per hour, crematory.
 - (b) The Permittee shall not cremate more than 4 human remains in the crematory during any 8-hour period.
 - (c) The Permittee shall not combust any halogenated plastics, including polyvinyl chloride (PVC) body bags or PVC pipes.
 - (d) The Permittee shall not combust any hazardous waste, or hospital, medical, and infectious waste as defined in COMAR 26.11.08.01B(19) and (33) and COMAR 26.13.02.

WYLIE FUNERAL HOMES, P.A.
PERMIT-TO-CONSTRUCT CONDITIONS
PREMISES No. 005-3016

- (3) Prior to the initiation of cremation in the primary chamber, the secondary chamber shall be preheated until the gases leaving the secondary chamber attain a temperature of at least 1600 °F.
- (4) While remains are being cremated, the secondary chamber temperature shall be maintained at 1600 °F or higher.
- (5) While remains are cremated, the temperature of the flue gases at the outlet of the secondary combustion chambers shall be continuously monitored and recorded on a chart recorder or other continuous record keeping device. The records shall show the dates and times of all recorded temperature readings.
- (6) Prior to initial operations, the Permittee shall develop and maintain an Operations and Maintenance (O&M) Plan for the crematory, reviewed and approved by the Department, that incorporates all of the following:
 - (a) Information that is sufficient to demonstrate that air emissions from the crematory can be expected to comply with all applicable regulatory requirements during periods of normal operation. Examples of types of information that could be included to support the required demonstrations would be design criteria, vendor specifications and performance guarantees, approved computer modeling studies, and results of testing programs in which approved test methods and procedures were utilized.
 - (b) Procedures that provide for proper operation and maintenance of the crematory and associated operating and monitoring equipment.
 - (c) Provisions for periodic monitoring of operating parameters as necessary to determine that the crematory is functioning properly.
 - (d) Descriptions of procedures to be followed and corrective actions to be taken when monitoring information indicates that the crematory is not functioning properly.
 - (e) Provisions for developing written or printable electronic records that will show whether prescribed operating, maintenance and monitoring procedures are consistently followed, and whether timely and appropriate corrective actions are taken when malfunctions occur.
- (7) The Permittee shall adhere to all provisions incorporated into the O&M Plan.

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Part E – Notifications and Testing

- (1) The Permittee shall notify the Department of the initial start-up date of the one (1) Matthews ES PPII Plus, 175 pounds per hour, human crematory within fifteen (15) days after the date.
- (2) Within 120 days after initial startup, the Permittee shall conduct a modified EPA Method 9 opacity observation of the crematory stack to demonstrate compliance with the requirements of COMAR 26.11.08.04B, to assess the effectiveness the crematory's opacity sensor, and to determine when operations require adjustments to ensure compliance.
 - (a) The opacity observation shall be conducted by an observer certified in accordance with the Method 9 standards and procedures in Appendix A-4 to 40 CFR, Part 60.
 - (b) The opacity observation shall be conducted for a one-hour period while human remains are cremated.
 - (c) During the opacity observation, the Permittee shall make adjustments to the opacity sensor equipment and crematory operations as needed to ensure that visible emissions do not occur during normal operation.
 - (d) If visible emissions are observed during the opacity observation, the Permittee shall take corrective actions to bring the crematory into compliance.
 - (e) At least 30 days prior to conducting the modified Method 9 opacity observation, the Permittee shall notify the Department of the intended date of the observation to allow for an inspector to be present.
 - (f) Within 30 days after conducting a modified Method 9 opacity observation, the Permittee shall submit the results and a description of adjustments and/or corrective actions made during the observations to the Department.
- (3) Within 120 days after initial startup, the Permittee shall conduct performance tests on the crematory stack to determine emissions of particulate matter (as PM-10) using EPA Method 5 and emissions of metals using EPA Method 29.
 - (a) At least 30 days prior to the performance tests, the Permittee shall submit to the Department a test protocol for review and approval.

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- (b) Within 60 days following the performance tests, the Permittee shall submit to the Department the performance test results.
- (c) In lieu of conducting performance tests, the Permittee may submit Method 5 and Method 29 performance test results conducted within the last five years by a third-party stack testing company on an identical crematory unit.
- (d) The performance test results shall include a demonstration of compliance with applicable particulate matter and metal toxic air pollutant requirements.

Part F – Record Keeping and Reporting

- (1) The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information for the crematory:
 - (a) Charts or other continuous records of the flue gas temperature at the outlet of the secondary combustion chamber. The records must show the date and start time of each cremation. The recording chart, or other method, shall be replaced as necessary in order to ensure that there is no overlapping of any portion of the recording of cremation cycles.
 - (b) A daily log of the following information:
 - (i) the date and start time of each cremation;
 - (ii) the number of human remains cremated per 8 hour period;
 - (iii) the approximate weight of each charge;
 - (iv) the duration of each cremation cycle;
 - (c) Records of all maintenance performed on the crematory including the date and description of the maintenance performed and actions taken.
 - (d) A copy of the required Operations and Maintenance (O&M) Plan.

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- (e) Records of the results of all modified Method 9 opacity observations and Method 5 and Method 29 performance tests.
- (2) The Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:
- (a) mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each registered source of emissions;
 - (b) accounts of the methods and assumptions used to quantify emissions;
 - (c) all operating data, including operating schedules and production data, that were used in determinations of emissions;
 - (d) amounts, types, and analyses of all fuels used;
 - (e) any records, the maintenance of which is required by this permit or by State or federal regulations, that pertain to the operation and maintenance of continuous emissions monitors, including:
 - (i) all emissions data generated by such monitors;
 - (ii) all monitor calibration data;
 - (iii) information regarding the percentage of time each monitor was available for service; and
 - (iv) information concerning any equipment malfunctions.
 - (f) information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:
 - (i) identifications and descriptions of all such equipment;
 - (ii) operating schedules for each item of such equipment;
 - (iii) accounts of any significant maintenance performed;
 - (iv) accounts of all malfunctions and outages; and

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- (v) accounts of any episodes of reduced efficiency.
 - (g) limitations on source operation or any work practice standards that significantly affect emissions; and
 - (h) other relevant information as required by the Department.
- (3) The Permittee shall submit to the Department by April 1 of each year a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.
- (a) Certifications of emissions shall be submitted on forms obtained from the Department.
 - (b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the facility's registered sources of emissions.
 - (c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”
- (4) The Permittee shall submit to the Department by April 1 of each year a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. Such analysis shall include either:
- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

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- (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.
- (5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

Part G – Temporary Permit-to-Operate Requirements

- (1) This permit-to-construct shall also serve as a temporary permit-to-operate that confers upon the Permittee authorization to operate the one (1) Matthews ES PPII Plus, 175 pounds per hour, human crematory for a period of up to 180 days after initiating operation.
- (2) During the effective period of the temporary permit-to-operate the Permittee shall operate the new installation as required by the applicable terms and conditions of this permit-to-construct, and in accordance with operating procedures and recommendations provided by equipment vendors.
- (3) The Permittee shall submit to the Department an application for a State permit-to-operate no later than 60 days prior to expiration of the effective period of the temporary permit-to-operate.
- (4) During the effective period of the temporary permit-to-operate the Permittee shall comply with all required notification, opacity observation, and performance test requirements as specified in Part E of this permit.
- (5) With the application for a State permit-to-operate, the Permittee shall submit a proposed Operations and Maintenance Plan required by Part D(6) of this permit for review and approval by the Department.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION

SUPPLEMENTAL INFORMATION REFERENCES

The Code of Maryland Regulations (COMAR) is searchable by COMAR citation at the following Division of State Documents website:

<https://dsd.maryland.gov/Pages/default.aspx>

The Code of Federal Regulations (CFR), including New Source Performance Standards (NSPS) at 40 CFR, Part 60 and National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR, Parts 61 and 63, is searchable by CFR citation at the following U.S. Government Publishing Office website:

<http://www.ecfr.gov>

Information on National Ambient Air Quality Standards (NAAQS) is located at the following U.S. Environmental Protection Agency (EPA) website:

<https://www.epa.gov/criteria-air-pollutants/naaqs-table>

Information on Maryland's Ambient Air Monitoring Program is located at the following Maryland Department of the Environment website:

<http://mde.maryland.gov/programs/Air/AirQualityMonitoring/Pages/index.aspx>

Information on the U.S. EPA's Screen3 computer model and other EPA-approved air dispersion models is located at the following U.S. EPA website:

<https://www.epa.gov/scram/air-quality-dispersion-modeling-screening-models>

Information on the U.S. EPA TANKS Emission Estimation Software is located at the following U.S. EPA website:

<https://www.epa.gov/air-emissions-factors-and-quantification/tanks-emissions-estimation-software-version-5>

Information on the U.S. EPA Emission Factors and AP-42 is located at the following U.S. EPA website:

<https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors>