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

ITEM	DESCRIPTION
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**.**

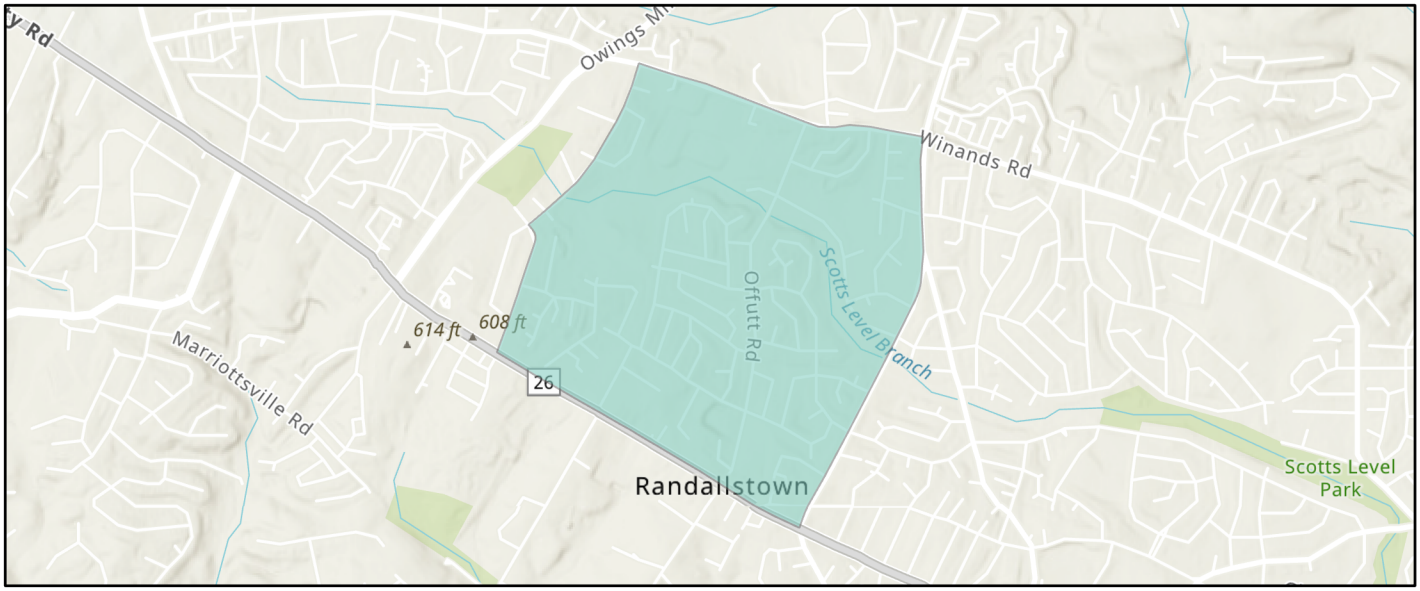
The Department will provide language translation services and/or an interpreter for deaf and hearing impaired persons provided that a request is made for such service at least five (5) days prior to the meeting. Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

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

Indicator	Percentile
PM 2.5	88.9
Ozone	65.4
Diesel PM	30.3
Cancer Risk	9.5
Respiratory Hazard	2.9
Traffic	40.5
Toxic Release	31
Hazardous Landfill	0

Pollution Environmental Effect

Indicator	Percentile
Lead Paint	44.3
RMP Facility	0
Superfund	0
Hazardous Waste	18.8
Wastewater	10.6
Brownfield	11.4
Power Plant	0
CAFO	0
Mining	63.3

Sensitive Population

Indicator	Percentile
Low Birth Weight	50
Asthma Discharge	81.4
Myocardial Infarction	86.2
Lack of Broadband	53.2
Low Income*	30.7

*Low Income is included in Underserved but grouped into Sensitive Population for EJ Score Calculation

*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.

Date Exported: 7/23/2025

Wylie
Funeral Homes, P.A.

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,

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

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. 1 Form 5
No. 1 Form 5T
No. 1 Form 5EP
No. NA Form 6
No. NA Form 10
No. NA Form 11
No. NA Form 41
No. NA Form 42
No. NA Form 44

☒ 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,

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
Jacquelene Massey	masseyx4@aol.com
James J Simmons	bobbiij@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	lrdwalk4@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, SPECIAL EXCEPTION & VARIANCE	*	BEFORE THE
9200 and 9206 Liberty Road	*	OFFICE OF
2nd Election District		
4th Council District	*	ADMINISTRATIVE HEARINGS
FAS, LLC		
Legal Owner	*	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.

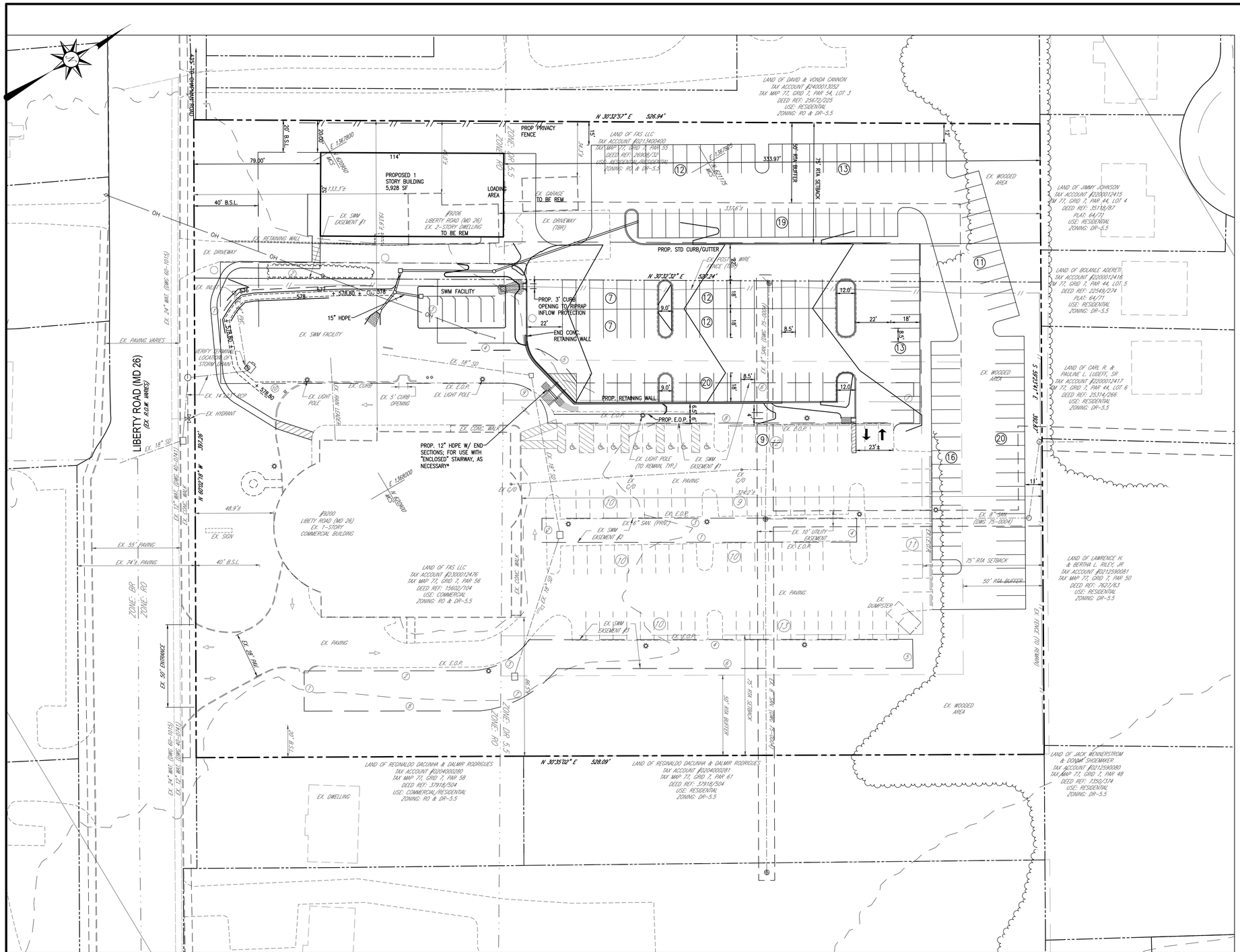
6. As part of the development process, 9200 and 9206 Liberty Rd shall be merged and/or consolidated into a single property for zoning purposes.

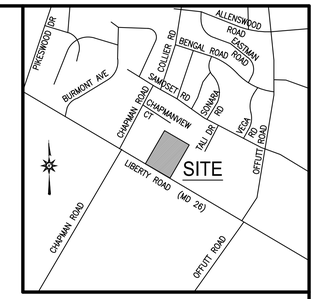
Any appeal of this decision must be made within thirty (30) days of the date of this Order.

Maureen E. Murphy

MAUREEN E. MURPHY
Administrative Law Judge
for Baltimore County

MEM/dlm





VICINITY MAP

SCALE: 1" = XXXX'

GENERAL NOTES:

1. 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
2. DEVELOPER:
   WYLIE FUNERAL HOME PA
   634 N. GILMOR STREET
   BALTIMORE, MD 21217-2101
   PH: 410-462-4070
3. PREMISE ADDRESS: 9200 LIBERTY ROAD
4. SITE AREA:
   PARCEL 55: GROSS/NET = 1.210 AC (52,700 SF)
   PARCEL 56: GROSS/NET = 3.624 AC (157,857 SF)
5. DEED REF:
   PARCEL 55: 26908/032
   PARCEL 56: 15602/104
6. TAX ACCOUNT: #0213400400 & #2300012476
7. COUNCILMANIC DISTRICT: 4TH
8. TAX MAP 77, GRID 7, PARCEL 55 & 56
9. ZONING: RO & DR 5.5 (PER 1"=200' ZONING MAP 077A1 & 077A2)
   AREA: RO - 1.804 AC±
   DR 5.5 - 3.038 AC±
10. 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.

11. NO KNOWN PRIOR PERMITS ON FILE.
12. THE PROPERTY AND STRUCTURES ARE NOT HISTORIC.
13. THE SITE DOES NOT LIE WITHIN THE CHESAPEAKE BAY CRITICAL AREA.
14. USES
    EXISTING: FUNERAL HOME & COMMERCIAL/RESIDENTIAL LOT
    PROPOSED: FUNERAL HOME, COMMERCIAL, CREMATORIUM
    (TWO RETORTS FOR HUMANS AND ONE FOR ANIMALS)
15. SITE SERVICED BY PUBLIC WATER AND SEWER.
16. WATERSHED: PATAPSCO RIVER & GWYNNS FALLS
17. FLOOR AREA RATIO (F.A.R.)
    PERMITTED: 0.2
    PROVIDED: 17,303/157,859= 0.11
18. PARKING REQUIRED:
    10 SPACES PER 1000 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 = 6
    TOTAL = 101 SPACES

    PROVIDED: 256 SPACES (248 + 8 HANDICAP)
19. ANY PROPOSED SIGNS ARE TO CONFORM TO THE BALTIMORE COUNTY ZONING REGULATIONS (BCZR).
20. SETBACKS FOR COMMERCIAL USE:
    DR 5.5 (RESIDENTIAL TRANSITION AREA "RTA" SETBACKS APPLY):

	REQUIRED	PROVIDED
FRONT:	NA	NA
SIDE:	75'	86.5', 193.6'
REAR:	75'	324.2'

    RO (PRINCIPAL USE NON-RESIDENTIAL STRUCTURE):

	REQUIRED	PROVIDED
FRONT:	40'	79'
SIDE:	20'	20'
REAR:	NA	NA

21. THIS SITE IS NOT WITHIN AN AREA IDENTIFIED AS DEFICIENT ON THE BASIC SERVICES MAPS.

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 — MARYLAND
2ND ELECTION DISTRICT — 4TH COUNCILMANIC DISTRICT

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

STATE OF MARYLAND — PATRICK C. RICHARDSON — NO. 16597 — REGISTERED PROFESSIONAL ENGINEER
10/24/24

REVISIONS	DRAWN BY:	CHECKED BY:	SCALE:
	BDK	PCR	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.

VKD: sc
cc: file

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	New Construction Begun (MM/YY)	New Construction Completed (MM/YY)	Existing Initial Operation (MM/YY)
A	T B D	T B D	
15	16-19	20-23	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	Spray/Adsorb Tower	Venturi Scrubber	Carbon Adsorber	Electrostatic Precipitator	Baghouse	Thermal/Catalytic Afterburner	Dry Scrubber
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
24-1	24-2	24-3	24-4	24-5	24-6	24-7	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
			1 1 2 3 2		
26-31	32-33	34	35-41	42-45	

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

OTHER FUELS _____ (Specify Type) [ ] 66-1 ANNUAL AMOUNT CONSUMED _____ (Specify Units of Measure)

OTHER FUEL _____ (Specify Type) [ ] 66-2 ANNUAL AMOUNT CONSUMED _____ (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
X				1 0	6	3 1 2
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%)
X					
76	77-78	79-80	81-82	83-84	

12. Equivalent Stack Innformation- is Exhaust through Doors, Windows, etc. Only? (Y/N) N
85

If not, then	Height Avove Ground (FT)	Inside Diameter at Top (in)	Exit Temperature (°F)	Exit Velocity (FT/SEC)
	30	20	1100	20
	86-88	89-91	92-95	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
4.09	1.9	3.12
99-104	105-110	111-116

Carbon Monoxide	Volatile Organic Compounds	PM-10
2.58	0.26	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 Date_____ By_____ **Reviewed by State** Date_____ By_____

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

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

Staff Code (208-210) **VOC Code** (211 212) **SIP Code** (213 214) **Regulation Code** (215-218) **Confidentiality** (219)

Point Description (220-238)

Action (239) A: Add C: Change

Form Number: 5
Rev. 9/27/2002
TTY Users 1-800-735-2258

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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 (ºF):	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

☐ Baghouse No. _____

☐ Cyclone No. _____

☐ Elec. Precipitator (ESP) No.

☐ Dust Suppression System No.

☐ Venturi Scrubber No. _

☐ Spray Tower/Packed Bed No.

☐ Carbon Adsorber No. ____

☐ Cartridge/Canister

☐ Regenerative

☐ Thermal Oxidizer No. _____

☐ Regenerative

☐ Catalytic Oxidizer No. _____

☐ Nitrogen Oxides Reduction No. _____

☐ Selective ☐ Non-Selective
☐ Catalytic ☐ Non-Catalytic

☐ Other No. _____
Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.4086	0.4086	4.09	0.6375
Particulate Matter (filterable as PM2.5)	0.4086	0.4086	4.09	0.6375
Particulate Matter (condensables)	0.4086	0.4086	4.09	0.6375
Volatile Organic Compounds (VOC)	0.0262	0.0262	0.262	0.0408
Oxides of Sulfur (SOx)	0.190	0.190	1.90	0.2962
Oxides of Nitrogen (NOx)	0.3115	0.3115	3.12	0.4859
Carbon Monoxide (CO)	0.258	0.258	2.58	0.4027
Lead (Pb)				
Greenhouse Gases (GHG)	**At Design Capacity (lb/hr)** (Based upon 3120 hrs/year operation)	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)	360	360	3070	561.6
Methane (CH_4)	0.069	0.0069	0.059	0.010764
Nitrous Oxide (N_2O)	0.0066	0.0066	0.0564	0.010296
Hydrofluorocarbons (HFCs)	N/A			N/A
Perfluorocarbons (PFCs)	N/A			N/A
Sulfur Hexafluoride (SF6)	N/A			N/A
Total GHG (as CO_2e)	362.2	362.2	3,096.8	565.0178
List individual federal Hazardous Air Pollutants (HAP) below:	**At Design Capacity (lb/hr)**	**At Projected Operations**		
		(lb/hr)	(lb/day)	(ton/yr)

(Attach additional sheets as necessary.)

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

Applicant Name: Mr. Brandon M. Wylie ****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 (µg/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)
ex. ethanol	*64175*	*II*	*18843*	*3769*	*N/A*	*0.60*	*0.15*	*0.75*	*1500*
ex. benzene	*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 µg/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 µg/m^3, and any applicable annual screening level for the TAP must be greater than 1 µg/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	
ex. ethanol and benzene	*Thermal Oxidizer*	*99*	*$50,000*	*$100,000*	*no*
ex. ethanol and benzene	*Low VOC materials*	*80*	*0*	*$100.000*	*yes*

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

(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 REULTS, 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
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		

Rural:	53%
Urban:	47%

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 M**4/S**3; MOM. FLUX = 0.811 M**4/S**2.

*** FULL METEOROLOGY ***

****

*** SCREEN AUTOMATED DISTANCES ***

****

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

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA 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*LB

****
* SUMMARY OF TERRAIN HEIGHTS ENTERED FOR *
* SIMPLE ELEVATED TERRAIN PROCEDURE *
****

TERRAIN HT (M)	DISTANCE RANGE (M) MINIMUM	MAXIMUM
0.	6.	1000.

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

*** CAVITY CALCULATION - 1 ***		*** CAVITY CALCULATION - 2 ***	
CONC (UG/M**3)	= 0.000	CONC (UG/M**3)	= 0.000
CRIT WS @10M (M/S)	= 99.99	CRIT WS @10M (M/S)	= 99.99
CRIT WS @ HS (M/S)	= 99.99	CRIT WS @ HS (M/S)	= 99.99
DILUTION WS (M/S)	= 99.99	DILUTION WS (M/S)	= 99.99
CAVITY HT (M)	= 6.18	CAVITY HT (M)	= 6.10
CAVITY LENGTH (M)	= 25.19	CAVITY LENGTH (M)	= 20.31
ALONGWIND DIM (M)	= 22.15	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.

Wylie Funeral Homes PA — Facility Name
9200 9206 Liberty Road, Randallstown, 21133 — Address
22-May-25 — Date

Premises Wide Human (number of cremations)	Animal (lbs)		Animal to Human Equivalent
1	0	Cremations per Hour	0.0
6	0	Cremations per 8-hour	0.0
1872	0	Cremations per year	0.0

FAIL (not regulated by MDE)

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

35.43 — 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

CAS	POLLUTANT	Emission Factor (EPA FIRE) (cremations)	Emission Factor (as number) (Cremations)	MDE Screening Level 1-HOUR (ug/m3)	MDE Screening Level 8-HOUR (ug/m3)	MDE Screening Level Annual (ug/m3)	Screen3 Concentration 1-hour (ug/m3)	Screen3 Concentration 8-hour (ug/m3)	Screen3 Concentration Annual (ug/m3)	Screen3 Concentration as % of MDE Screening Level 1-hour	Screen3 Concentration as % of MDE Screening Level 8-hour	Screen3 Concentration as % of MDE Screening Level Annual	SME?	AER?	Emissions (lb/hr)	Emissions (tpy)
83329	Acenaphthene	1.11E-07	1.11E-07		2.03E+01		3.93E-06	2.06E-06	6.72E-08		0.00		NO	YES	1.11E-07	1.04E-07
208968	Acenaphthylene	6.73E-07	6.73E-07		2.46E+01		2.38E-05	1.25E-05	4.08E-07		0.00		NO	YES	6.73E-07	6.30E-07
75070	Acetaldehyde	0.00013	0.00013	4.50E+02	2.30E+03	5.00E+00	4.61E-03	2.42E-03	7.87E-05	0.00	0.00	0.00	YES	YES	1.30E-04	1.22E-04
120127	Anthracene	3.24E-07	3.24E-07		2.00E+01		1.15E-05	6.03E-06	1.96E-07		0.00		NO	YES	3.24E-07	3.03E-07
7440360	Antimony	< 3.020E-5	3.02E-05		5.00E+00		1.07E-03	5.62E-04	1.83E-05		0.01		NO	YES	3.02E-05	2.83E-05
7440382	Arsenic	3.82E-05	3.82E-05		1.00E-01	2.00E-03	1.35E-03	7.11E-04	2.32E-05		0.71	1.16	NO	YES	3.82E-05	3.58E-05
7440393	Barium	2.40E-05	2.40E-05		5.00E+00		8.50E-04	4.46E-04	1.45E-05		0.01		NO	YES	2.40E-05	2.25E-05
56553	Benzo (a) anthracene	< 9.760E-9	9.76E-09				3.46E-07	1.82E-07	5.91E-09				YES	#VALUE!	9.76E-09	9.14E-09
50328	Benzo (a) pyrene	3.54E-08	3.54E-08				1.25E-06	6.58E-07	2.14E-08				YES	#VALUE!	3.54E-08	3.31E-08
205992	Benzo (b) fluoranthene	< 1.590E-8	1.59E-08				5.63E-07	2.96E-07	9.63E-09				YES	#VALUE!	1.59E-08	1.49E-08
191242	Benzo (g,h,i) perylene	4.4055E-08	4.4055E-08		2.00E+01		1.56E-06	8.19E-07	2.67E-08		0.00		NO	YES	4.41E-08	4.12E-08
207089	Benzo (k) fluoranthene	< 1.420E-8	1.42E-08				5.03E-07	2.64E-07	8.60E-09				YES	#VALUE!	1.42E-08	1.33E-08
7440417	Beryllium	1.37E-06	1.37E-06		5.00E-04	4.00E-03	4.85E-05	2.55E-05	8.30E-07		5.10	0.02	NO	YES	1.37E-06	1.28E-06
7440439	Cadmium	2.21E-04	2.21E-04		2.00E-02	6.00E-03	7.81E-03	4.10E-03	1.34E-04		20.51	2.23	NO	YES	2.21E-04	2.06E-04
7440473	Chromium	2.99E-05	2.99E-05		5.00E+00		1.06E-03	5.56E-04	1.81E-05		0.01		NO	YES	2.99E-05	2.80E-05
18540299	Chromium (VI)	1.37E-05	1.37E-05		1.00E-01	8.00E-04	4.86E-04	2.55E-04	8.31E-06		0.26	1.04	NO	YES	1.37E-05	1.28E-05
218019	Chrysene	< 5.400E-8	5.40E-08				1.91E-06	1.00E-06	3.27E-08				YES	#VALUE!	5.40E-08	5.05E-08
7440484	Cobalt	6.65175E-06	6.6518E-06		2.00E-01		2.36E-04	1.24E-04	4.03E-06		0.06		NO	YES	6.65E-06	6.23E-06
7440508	Copper	2.74E-05	2.74E-05		2.00E+00		9.71E-04	5.10E-04	1.66E-05		0.03		NO	YES	2.74E-05	2.56E-05
53703	Dibenzo(a,h) anthracene	< 1.270E-8	1.27E-08				4.50E-07	2.36E-07	7.69E-09				YES	#VALUE!	1.27E-08	1.19E-08
206440	Fluoranthene	2.05E-07	2.05E-07		8.20E+01		7.26E-06	3.81E-06	1.24E-07		0.00		NO	YES	2.05E-07	1.92E-07
86737	Fluorene	4.17E-07	4.17E-07		2.00E+01		1.48E-05	7.76E-06	2.53E-07		0.00		NO	YES	4.17E-07	3.90E-07
50000	Formaldehyde	0.000034	0.000034		2.03E+01	8.00E-01	1.20E-03	6.32E-04	2.06E-05		0.00	0.00	NO	YES	3.40E-05	3.18E-05
7647010	Hydrogen chloride	2.70E-01	2.70E-01	2.98E+01	1.65E+02		9.55E+00	5.02E+00	1.63E-01	32.02	3.03		NO	YES	2.70E-01	2.52E-01
7664393	Hydrogen fluoride	6.55E-04	6.55E-04	1.64E+01	4.09E+00		2.32E-02	1.22E-02	3.97E-04	0.14	0.30		NO	YES	6.55E-04	6.13E-04
193395	Indeno(1,2,3-cd)pyrene	< 1.540E-8	1.54E-08				5.46E-07	2.86E-07	9.33E-09				YES	#VALUE!	1.54E-08	1.44E-08
7439921	Lead	6.62E-05	6.62E-05		5.00E-01		2.35E-03	1.23E-03	4.01E-05		0.25		NO	YES	6.62E-05	6.20E-05
7439976	Mercury	3.40E-03	3.40E-03	3.00E-01	1.00E-01		4.61E-01	6.32E-02	2.06E-03	153.53	63.24		NO	NO	3.40E-03	3.18E-03
7439987	Molybdenum	< 1.670E-5	1.67E-05		5.00E+00		5.92E-04	3.11E-04	1.01E-05		0.01		NO	YES	1.67E-05	1.56E-05
91203	Naphthalene	0.0000564	0.0000564	7.86E+02	5.24E+02		2.00E-03	1.05E-03	3.42E-05	0.00	0.00		YES	YES	5.64E-05	5.28E-05
7440020	Nickel	3.82E-05	3.82E-05		1.00E+00		1.35E-03	7.11E-04	2.31E-05		0.07		NO	YES	3.82E-05	3.58E-05
85018	Phenanthrene	2.29E-06	2.29E-06		9.80E+00		8.11E-05	4.26E-05	1.39E-06		0.00		NO	YES	2.29E-06	2.14E-06
129000	Pyrene	1.62E-07	1.62E-07		2.00E+01		5.74E-06	3.01E-06	9.81E-08		0.00		NO	YES	1.62E-07	1.52E-07
7782492	Selenium	< 4.360E-5	4.36E-05		2.00E+00		1.54E-03	8.11E-04	2.64E-05		0.04		NO	YES	4.36E-05	4.08E-05
7440224	Silver	7.30E-06	7.30E-06		1.00E-01		2.59E-04	1.36E-04	4.42E-06		0.14		NO	YES	7.30E-06	6.83E-06
7440280	Thallium	< 8.520E-5	8.52E-05		2.00E-01		3.02E-03	1.58E-03	5.16E-05		0.79		NO	YES	8.52E-05	7.97E-05
7440622	Vanadium	5.79E-05	5.79E-05		5.00E-01		2.05E-03	1.08E-03	3.51E-05		0.22		NO	YES	5.79E-05	5.42E-05
7440666	Zinc	3.53E-04	3.53E-04	1.00E+03	5.00E+02		1.25E-02	6.57E-03	2.14E-04	0.00	0.00		YES	YES	3.53E-04	3.30E-04
	PM, filterable	8.50E-02	8.50E-02				3.01E+00	1.58E+00	5.15E-02				NO	NO	8.50E-02	7.96E-02
	Polycyclic aromatic hydrocarbons (PAH)	3.76E-06	3.76E-06				1.33E-04	6.99E-05	2.28E-06				NO	NO	3.76E-06	3.52E-06
1746016	Total Dioxins & Furans - TEQ balanced		1.41E-09		8.20E-04		4.98E-08	2.62E-08	8.52E-10		0.00		NO	YES	1.41E-09	1.32E-09

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 Incenerator 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

Sulfer Dioxide (SO_2)

$$\frac{175 \text{ lb/hr} \times 2.17 \text{ lb/ton} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}{} = 0.190 \text{ lb/hr} = 0.2962 \text{ TPY}$$

$$\frac{0.189875 \text{ lb/hr} \times 4.54E{+}05 \text{ mg/lb} \times 1 \text{ ppmv}}{1175 \text{ dscfm} \times 60 \text{ min/hr} \times 0.0283 \text{ m}^3/\text{f}^3 \times 2.61 \text{ mg/m}^3} = 16.55 \text{ ppmv}$$

Nitrogen Oxide (NOx - as Nitrogen Dioxide)

$$\frac{175 \text{ lb/hr} \times 3.56 \text{ lb/ton} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}{} = 0.3115 \text{ lb/hr} = 0.4859 \text{ TPY}$$

$$\frac{0.3115 \text{ lb/hr} \times 4.54E{+}05 \text{ mg/lb} \times 1 \text{ ppmv}}{1175 \text{ dscfm} \times 60 \text{ min/hr} \times 0.028 \text{ m}^3/\text{f}^3 \times 1.88 \text{ mg/m}^3} = 38.11 \text{ ppmv}$$

Hydrocarbons (TOC/VOC - methane)

$$\frac{175 \text{ lb/hr} \times 2.99E{-}01 \text{ lb/ton} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}{} = 0.0262 \text{ lb/hr} = 0.0408 \text{ TPY}$$

$$\frac{0.0261625 \text{ lb/hr} \times 4.54E{+}05 \text{ mg/lb} \times 1 \text{ ppmv}}{1175 \text{ dscfm} \times 60 \text{ min/hr} \times 0.0283 \text{ m}^3/\text{f}^3 \times 0.65 \text{ mg/m}^3} = 9.16 \text{ ppmv}$$

Particulates (PM & PM_{10})

$$\frac{175 \text{ lb/hr} \times 4.67 \text{ lb/ton} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}{} = 0.4086 \text{ lb/hr} = 0.6375 \text{ TPY}$$

$$\frac{0.408625 \text{ lb/hr} \times 7.00E{+}03 \text{ gr/lb}}{1175 \text{ dscfm} \times 60 \text{ min/hr}} = 0.04 \text{ gr/dscf}$$

Carbon Monoxide (CO)

$$\frac{175 \text{ lb/hr} \times 2.95 \text{ lb/ton} \times \frac{1 \text{ ton}}{2000 \text{ lbs}}}{} = 0.2581 \text{ lb/hr} = 0.4027 \text{ TPY}$$

$$\frac{0.258125 \text{ lb/hr} \times 4.54E{+}05 \text{ mg/lb} \times 1 \text{ ppmv}}{1175 \text{ dscfm} \times 60 \text{ min/hr} \times 0.028 \text{ m}^3/\text{f}^3 \times 1.14 \text{ mg/m}^3} = 52.08 \text{ ppmv}$$

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.

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

Potential Throughput (cf / yr) = Heat Input Capacity (MMBtu/hr) x (total hrs/yr) x (1 / Gas Heating Value)

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

GHG (TPY) = Emission Factor (lb/E6 cf) x Potential Throughput (cf/yr) x (1 ton/2000 lbs)

Carbon Dioxide (CO2)

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

Nitrous Oxide (N2O)

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

Methane (CH4)

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

CO2e (TPY) = (CO2 TPY x CO2 GWP) + (N2O TPY x N2O GWP) + (CH4 TPY x 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

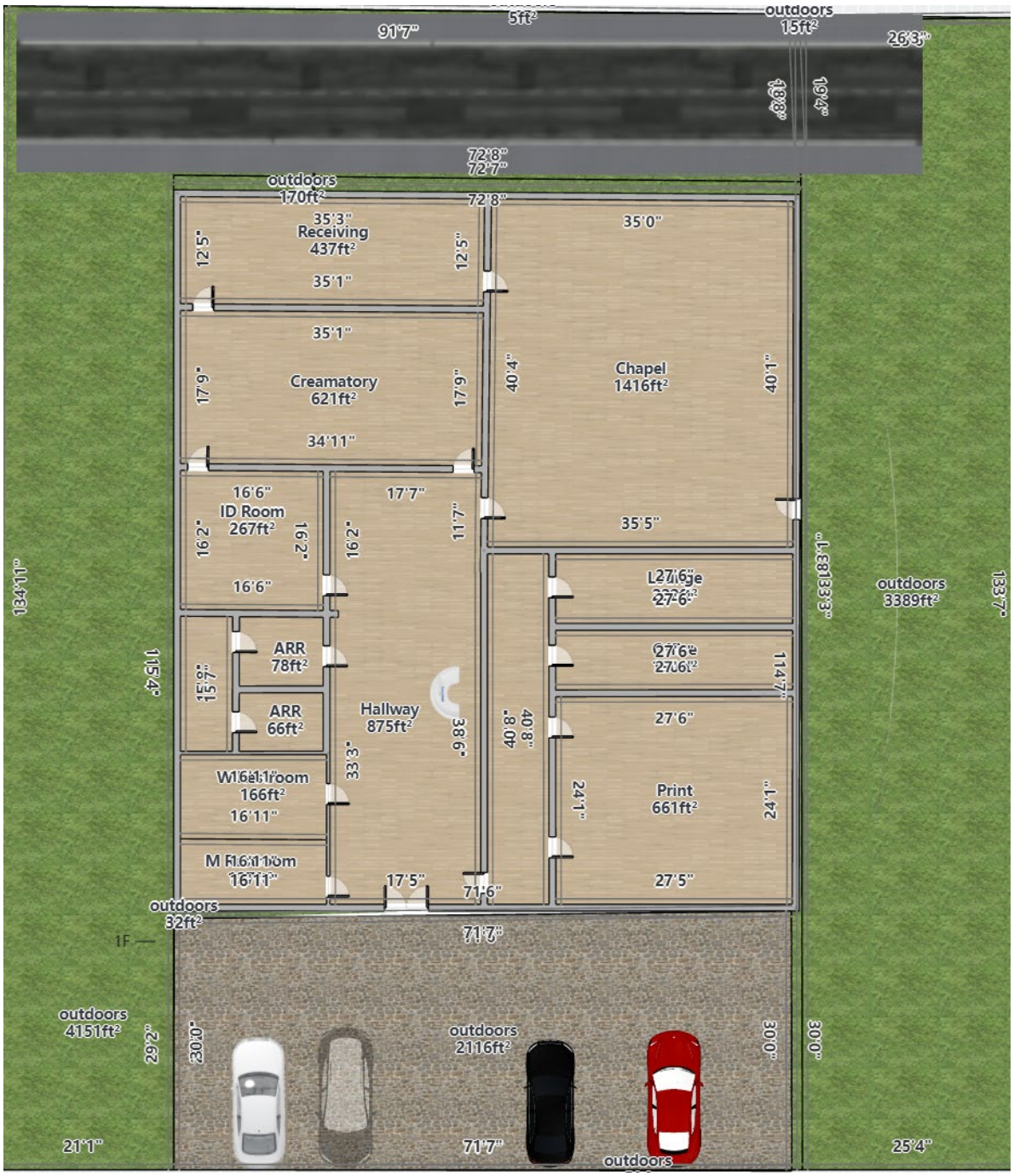
LOCATION MAP & SITE DETAILS

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

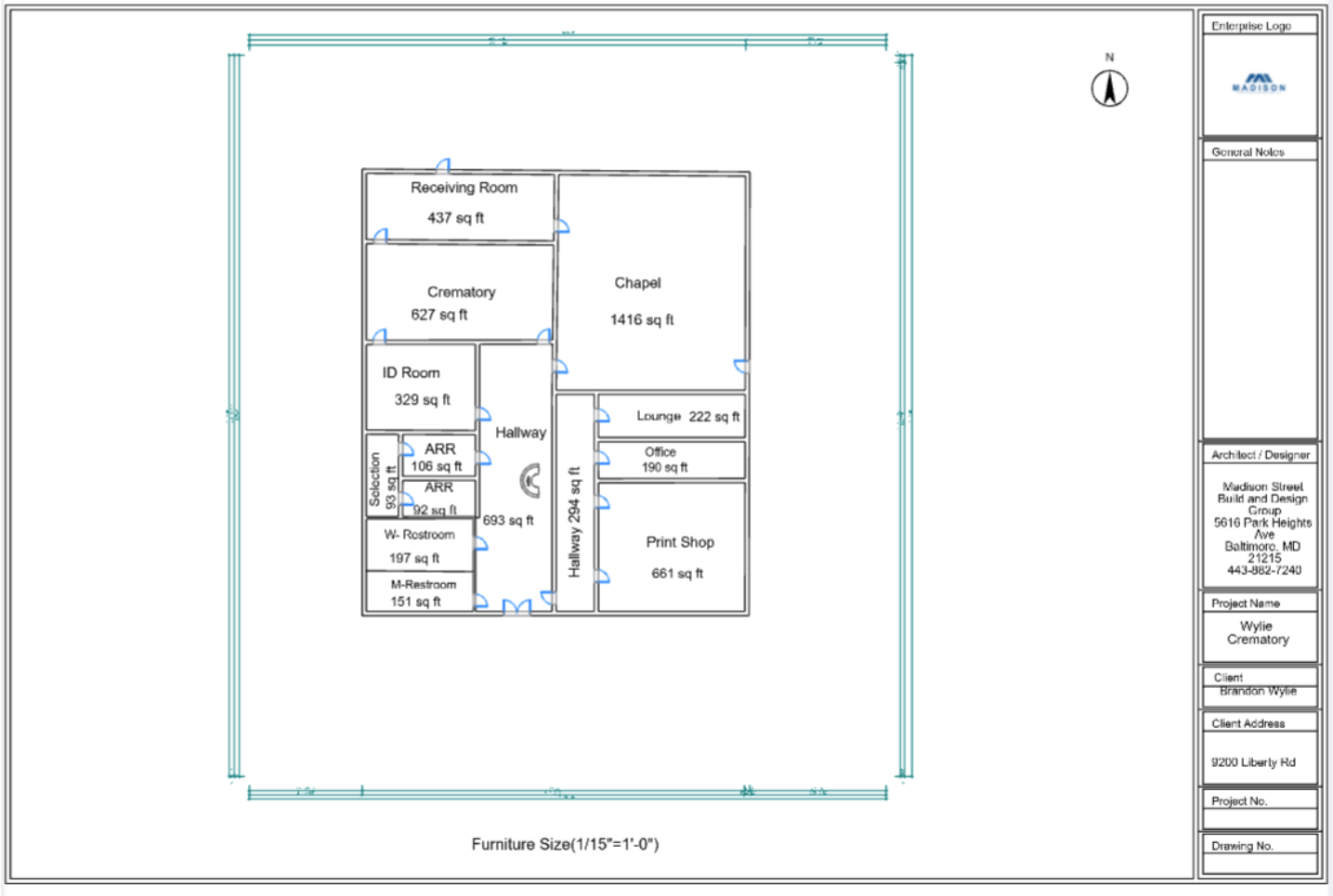
Red line = property line
Green line = new building housing the crematorium
Yellow line = location of the crematorium in the new building

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

Matthews® ENVIRONMENTAL SOLUTIONS

High-Tech Productivity

For Small And Mid-Sized Crematories

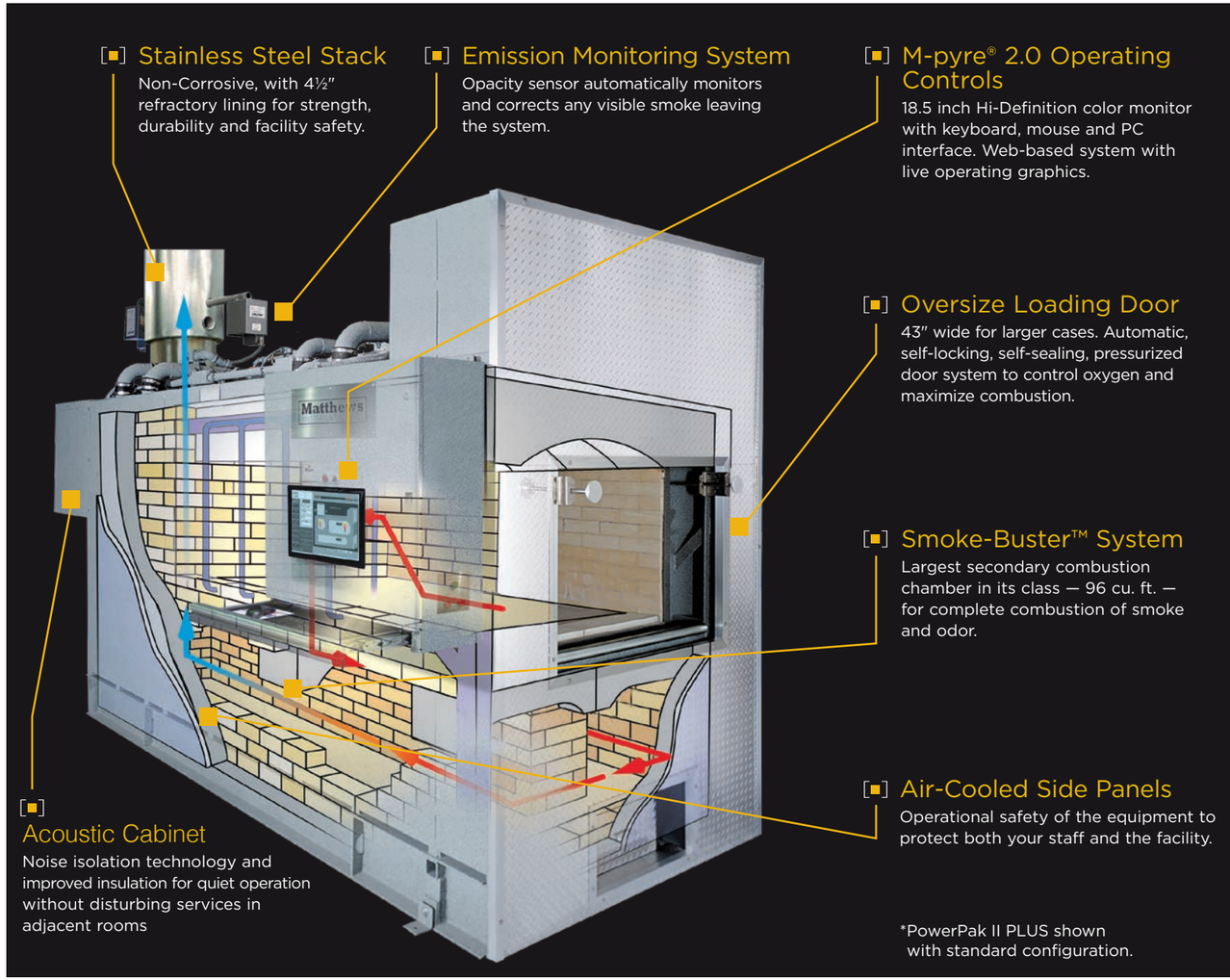
The PowerPak II PLUS delivers industry-leading technology and the extra capacity you need to grow your business. Featuring a larger secondary chamber and faster cremation times than our basic cremation system, the PowerPak II PLUS is perfect for businesses that perform up to 6 cremations per day.

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.



Stainless Steel Stack

Non-Corrosive, with 4½" refractory lining for strength, durability and facility safety.

Emission Monitoring System

Opacity sensor automatically monitors and corrects any visible smoke leaving the system.

M-pyre® 2.0 Operating Controls

18.5 inch Hi-Definition color monitor with keyboard, mouse and PC interface. Web-based system with live operating graphics.

Oversize Loading Door

43" wide for larger cases. Automatic, self-locking, self-sealing, pressurized door system to control oxygen and maximize combustion.

Smoke-Buster™ System

Largest secondary combustion chamber in its class — 96 cu. ft. — for complete combustion of smoke and odor.

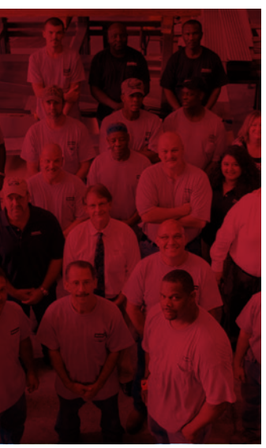
Air-Cooled Side Panels

Operational safety of the equipment to protect both your staff and the facility.

Acoustic Cabinet

Noise isolation technology and improved insulation for quiet operation without disturbing services in adjacent rooms

*PowerPak II PLUS shown with standard configuration.



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

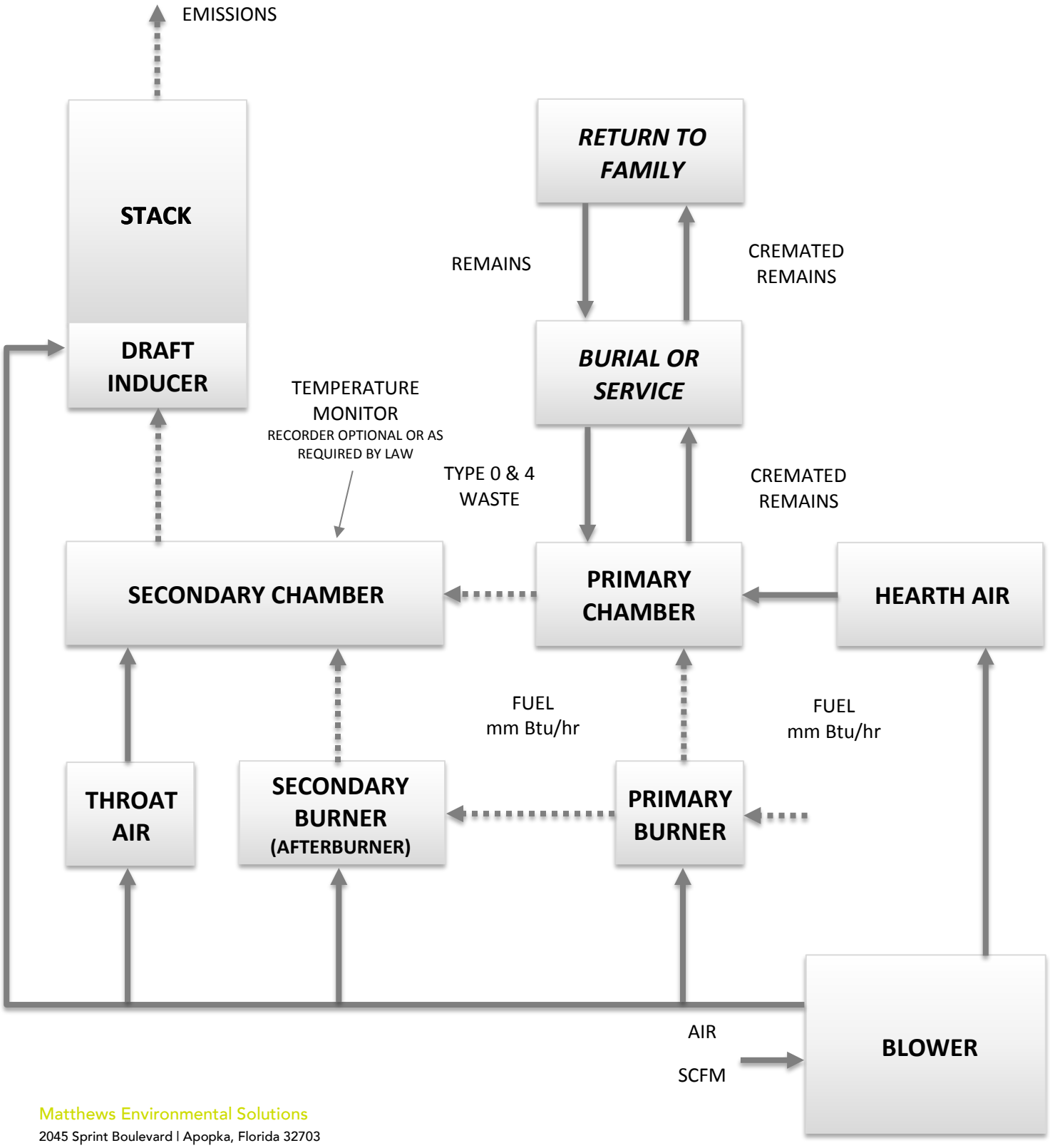
PowerPak II PLUS Specifications

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

UL LISTED

Matthews ENVIRONMENTAL SOLUTIONS

Cremator Process Flow Diagram



Matthews Environmental Solutions
2045 Sprint Boulevard | Apopka, Florida 32703
O: 407-886-5533 | F: 407-886-5990 | www.matthewsenvironmentalsolutions.com

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 m^3/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 m^3)
    - B. Secondary Chamber ..... 96 cubic feet (2.72 m^3)

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

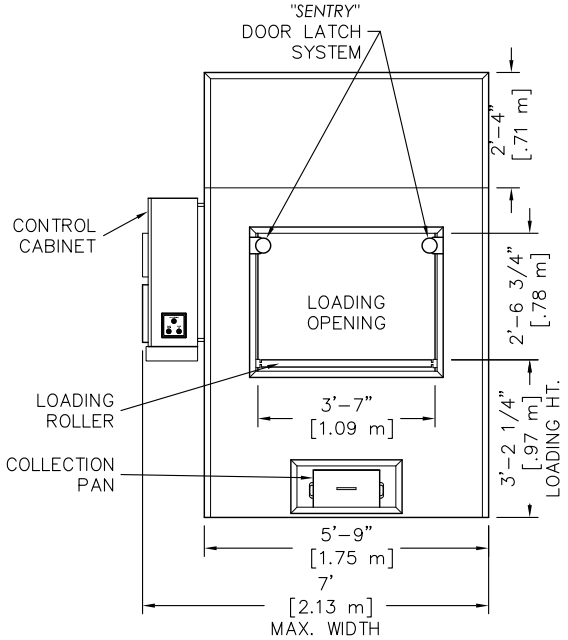
SPECIFICATIONS- Model Power-Pak II Plus

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

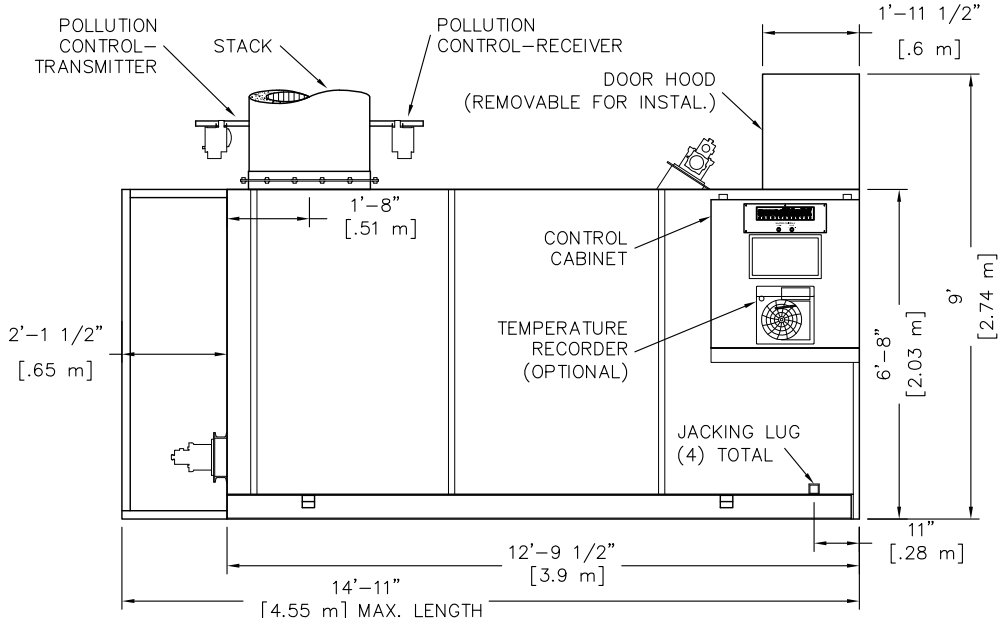
25. Exterior Finish
    - A. Primer ..... 2 coats rust inhibiting
    - B. Finish ..... 2 coats textured finish

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.



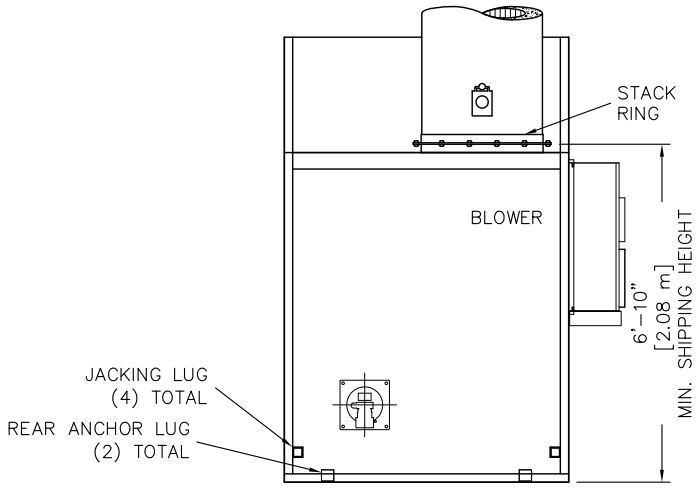
FRONT ELEVATION



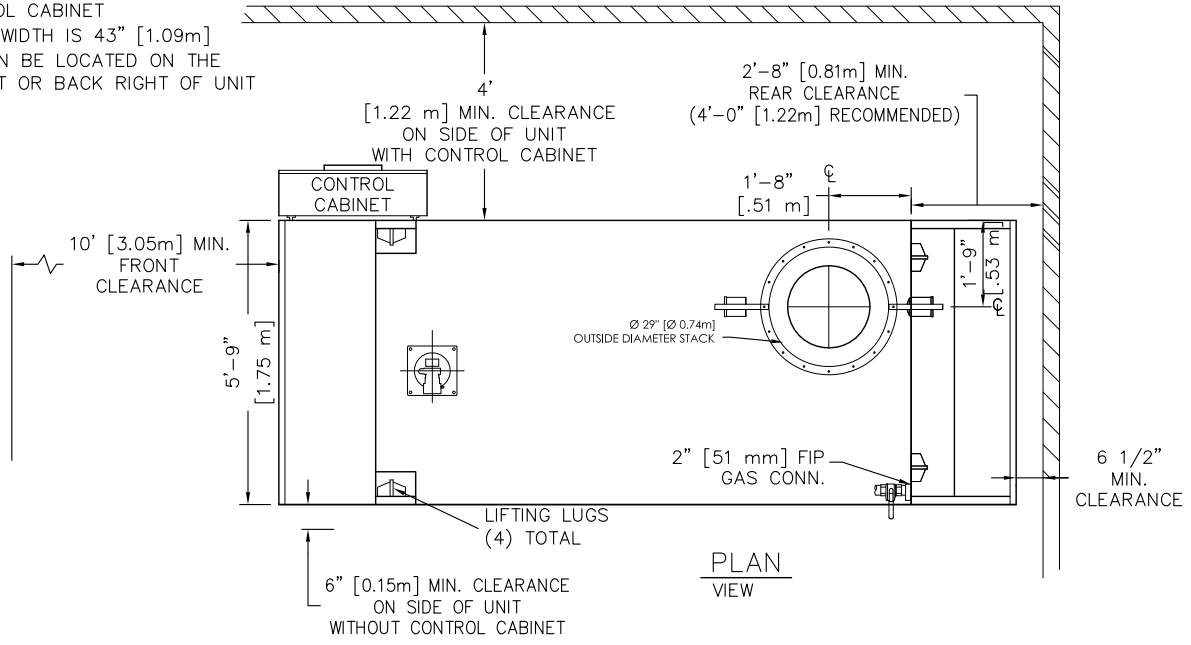
LEFT SIDE ELEVATION

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



REAR ELEVATION



PLAN VIEW

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

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CREMATOR CLEARANCES

	RECOMMENDED	MINIMUM
TOP: (2)	2 FEET [610 mm]	6 INCHES [152 mm]
CABINET SIDE:	4 FEET [1.22 m]	4 FEET [1.22 m]
OTHER SIDE:	2 FEET [610 mm]	6 INCHES [152 mm]
FRONT:	10+ FEET [3.05+ m]	10 FEET [3.05 m]
REAR:	4 FEET [1.22 m]	32 INCHES [812 mm]
STACK:	6 INCHES [152 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 *"WHISPER SHIELD"*. (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 (B) ONTO STACK RING (A) 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.

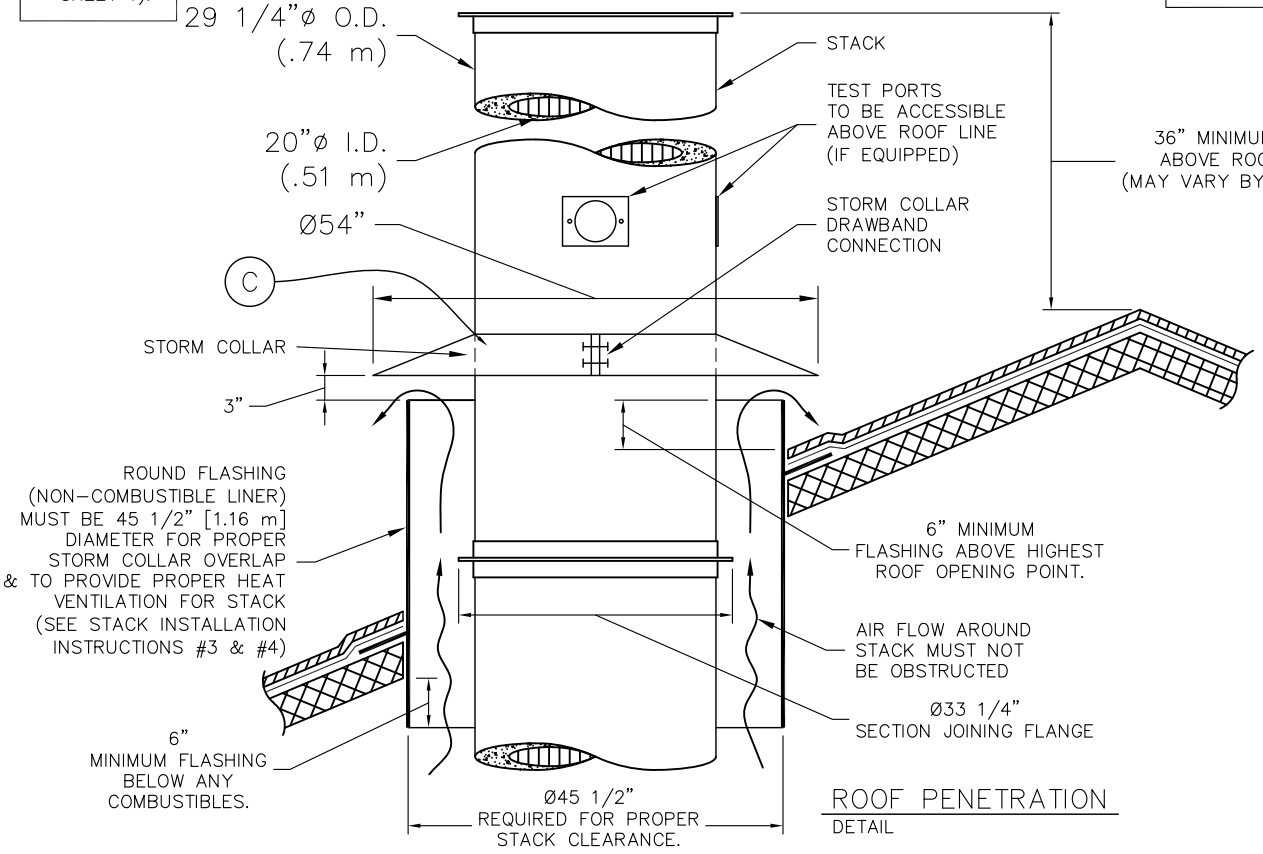
2. INSTALL STORM COLLAR ON STACK, 3" [76 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).

3. APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MES) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B).

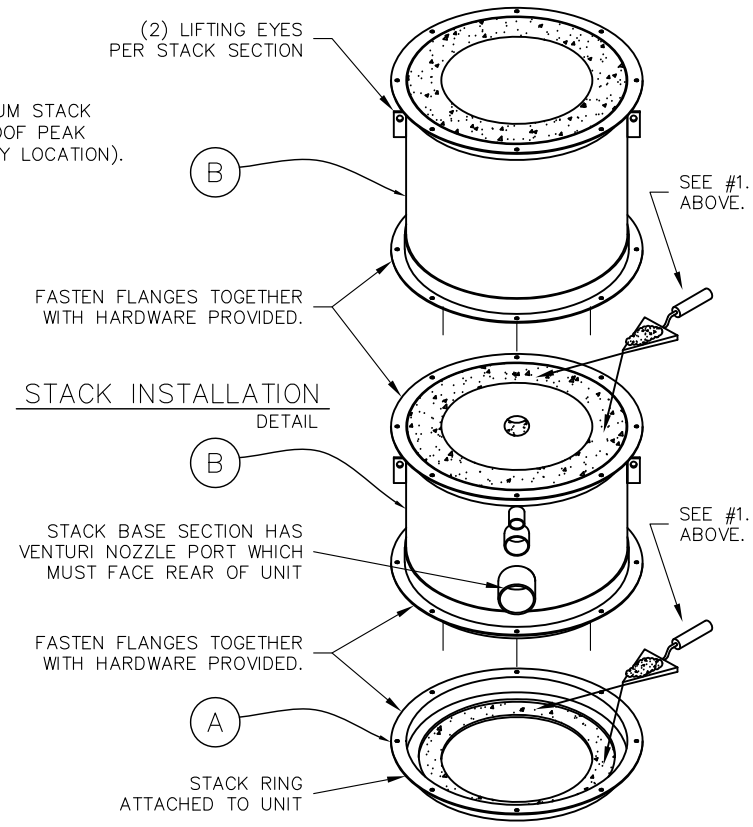
4. STORM COLLAR IS FURNISHED BY MES. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.

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.



ROOF PENETRATION
DETAIL



STACK INSTALLATION
DETAIL

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	DATE: 03.14.2014	REVISION:		
APPROVED BY:	–	DATE: –	1	09.20.2017	CHANGED MIN. FRONT CLEAR. TO 10'
SCALE:	1/2" = 1'-0"	SHEET: OF:			
DWG FILE:					
DWG NUMBER:		$(GETVAR,??)			

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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 FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED = 7.33 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 FROM CHART ABOVE = 0.95 LB/LB BURNED

C. TOTAL FLUE PRODUCT MASS PER LB BURNED = 1.70 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 BTU/HR x 4.8E-05 LBS/BTU = 48 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 BTU/HR x 4.8E-05 LBS/BTU = 58 LBS/HOUR

D. COMBUSTION AIR FOR SECONDARY BURNER

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

E. PRODUCTS FROM TYPE 0 WASTE (CONTAINER)

7.33 LBS/LB BURNED x 10 LB/HR BURN RATE = 73 LBS/HOUR

F. PRODUCTS FROM TYPE 4 WASTE (TISSUE)

1.70 LBS/LB WASTE x 165 LB/HR BURN RATE = 281 LBS/HOUR

G. ADDITIONAL SECONDARY CHAMBER COMBUSTION AIR (THROAT AIR)

12000 CF/HR* x 0.075 LB/CF AIR = 900 LBS/HOUR

H. TOTAL FLUE PRODUCTS = 3009 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

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

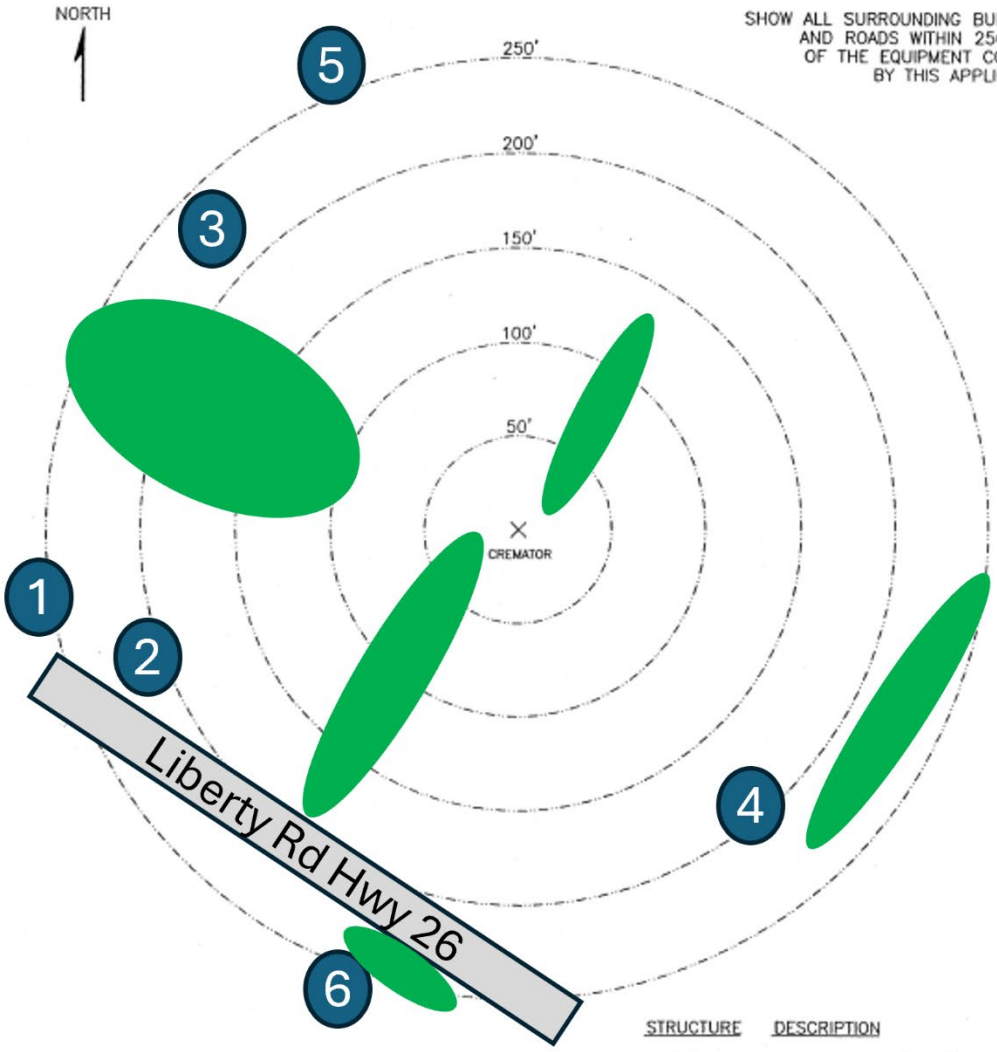
C. RETENTION TIME

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

ATTACHMENT G

PLOT OF LAND USE WITHIN 250 ft OF THE CREMATORIUM

PLOT PLAN **OF LAND USE WITHIN 250 ft OF THE CREMATORIUM**



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)	

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.

Woods

ATTACHMENT H

EVIDENCE OF WORKERS COMP

SELECTIVE
INSURANCE®

POLICY DOCUMENT

WC 9146923

INSURED'S COPY

POLICY SCHEDULE

SELECTIVE INSURANCE
BRANCHVILLE, NEW JERSEY 07890

ISSUE DATE: 01/03/2025

Policy No	Issued To
WC 9146923	WYLIE FUNERAL HOME PA

Period	Transaction Type	Agent Number
02/01/2025 02/01/2026	RENEWAL	00-03753-00000

Billing Type	Transaction Eff. Date	Number of Remaining Installments
DIRECT BILL	02/01/2025	12

BILL ACCOUNT: 519 006 472

100000WC 9146923559

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.