

Kimberly Cunningham

From: AirRR
Sent: Thursday, October 9, 2025 3:59 PM
To: OCC-NSR; R6AirPermitsTX@epa.gov; AMOORE@KILLEENTEXAS.GOV; AI@CFL.RR.COM
Cc: RFCAIR9
Subject: INITIAL, City of Killeen, Project: 398918, Permit(s): 181784,
Attachments: City of Killeen Public Notice.docx; NORI Spanish.docx

Please see Public Notice attached.

Kimberly Cunningham

From: ai@cfl.rr.com
Sent: Thursday, October 9, 2025 3:21 PM
To: Kimberly Cunningham; 'Patrick Martin'
Cc: 'Nathan Blackstock | US Cremation Equipment'
Subject: City of Killeen Public Notice Draft 181784_398918
Attachments: City of Killeen Public Notice Draft.docx; NORI Spanish Animal Carcass Incinerator.docx

Caution: This email may contain suspicious content. Please take care when clicking links or opening attachments. When in doubt, contact the TCEQ Help Desk.

Dear Kimberly:

Attached is the completed Spanish NORI. The English one looks acceptable.

If you have any questions, please call me at 407-923-3945 or reply to this email.

Respectfully,
AI ENVIRONMENTAL CONSULTING SERVICES, INC.

Luis Llorens

From: Patrick Martin <PMartin@killeentexas.gov>
Sent: Thursday, October 9, 2025 10:10 AM
To: 'ai@cfl.rr.com' <ai@cfl.rr.com>; 'Nathan Blackstock | US Cremation Equipment' <nblackstock@uscremationequipment.com>
Subject: FW: City of Killeen Public Notice Draft 181784_398918

FYI.....Is there anything else I need to do?

Thanks



Pat Martin

Director of Facility Services
Community Development/Facility Services
Phone: (254)200-7950

pmartin@killeentexas.gov

www.killeentexas.gov



Dedicated Service – Every Day for Everyone!

From: Amanda Moore <amoore@killeentexas.gov>
Sent: Thursday, October 9, 2025 9:03 AM
To: Patrick Martin <PMartin@killeentexas.gov>
Subject: FW: City of Killeen Public Notice Draft 181784_398918



Amanda Moore

Director of Animal Services
City of Killeen Animal Services

Phone: (254) 501-6619

3518 E. Rancier Ave.

Killeen, TX 76543

amoore@killeentexas.gov

www.killeentexas.gov



*Dedicated Service – Every Day for
Everyone!*

From: Kimberly Cunningham <Kimberly.Cunningham@tceq.texas.gov>

Sent: Wednesday, October 8, 2025 1:46 PM

To: Amanda Moore <amoore@killeentexas.gov>

Subject: City of Killeen Public Notice Draft 181784_398918

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know that the content is safe. Never enter your password or other sensitive information on linked web pages contained in this email unless you are certain the web pages are safe. If you have questions or need assistance, please contact the Help Desk at 254-501-8900.

Mrs. Moore,

Please send approval within **2 business days**.

The NORI is a legally approved document and only the items listed below are subject to approval/correction. Please review carefully and provide corrections including a revised application as needed:

- Street address or driving directions to the facility
- Hyperlink for the map to facility - please confirm the map shows the general vicinity location of the facility
- Contaminant's list
- Public viewing place (must be in the same county as the facility and may be required to have internet access)
- For renewal applications, check all previous permitting actions since initial issuance or last renewal to make sure they are listed in Example A
 - Incorporation / consolidation of registrations for PBRs and Standard Permits being included with this application
 - Emission factor changes
 - Qualified facility changes
- Public Notice Technical Contact information

- Big or small business status (Small businesses will not receive Example B)

Please do not publish until you receive an email containing an administratively complete letter and public notice package.

The Spanish Public Notice (NORI) is attached. Use the English version as a template to complete it.

Your prompt assistance is appreciated.

Kimberly Cunningham
License & Permit Specialist
Air Permits Division, TCEQ
512-239-1114
Kimberly.Cunningham@tceq.texas.gov



Comisión de Calidad Ambiental de Texas



AVISO DE SOLICITUD DE UN PERMISO ESTÁNDAR DE CALIDAD DEL AIRE PARA UN INCINERADOR DE RESTOS DE ANIMALES

NO. DE REGISTRO DE CALIDAD DEL AIRE PROPUESTO: 181784

SOLICITUD. City of Killeen, 3118 Commerce Drive, Killeen, Texas 76543-4013 ha solicitado a la Comisión de Calidad Ambiental de Texas (la TCEQ) un Permiso Estándar de Calidad del Aire con no. de registro 181784, el cual autorizaría la construcción de un incinerador de restos de animales. Se propone ubicar dicha instalación en 3118 Commerce Drive, Killeen, Texas 76543, Condado de Bell, Texas. Se ofrece el siguiente enlace a un mapa electrónico de la ubicación general del sitio o instalación como una cortesía pública, el cual no forma parte de la solicitud o del aviso: <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.701388,31.111388&level=13> Favor de consultar la solicitud para conocer la ubicación exacta. Esta solicitud se envió a la TCEQ el 7 de octubre del 2025. La función principal de esta instalación es la eliminación adecuada de restos de animales a través de la incineración. La directora ejecutiva determinó que la solicitud está administrativamente completa el 9 de Octubre del 2025.

COMENTARIOS PÚBLICOS. Es posible presentar comentarios públicos por escrito sobre esta solicitud en cualquier momento durante el periodo de comentarios públicos, el cual inicia en la fecha de publicación del aviso y se extiende a los 30 días posteriores a dicha fecha. Los comentarios públicos pueden enviarse por escrito a la siguiente dirección: Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087, o bien electrónicamente a través de www14.tceq.texas.gov/epic/eComment/. Favor de tener en cuenta que cualquier información de contacto proporcionada (nombre, teléfono, dirección física y de correo electrónico inclusive) pasará a formar parte de los registros públicos de la agencia.

RESPUESTA A COMENTARIOS. Tras la conclusión del periodo de comentarios, la directora ejecutiva preparará una respuesta por escrito a todos los comentarios relevantes, la cual se enviará (junto con la decisión de la directora ejecutiva sobre la solicitud) a todas las personas que hayan presentado comentarios y hayan solicitado ser parte de la lista de correo. La respuesta a comentarios se publicará en el archivo del permiso para su visualización.

La directora ejecutiva aprobará o denegará la solicitud a más tardar dentro de los 30 días posteriores a la conclusión del periodo de comentarios públicos (tomando en cuenta todos los comentarios recibidos dentro de dicho periodo) y basará esta decisión en si la solicitud cumple con los requisitos del permiso estándar

LA OFICINA CENTRA/REGIONAL. La solicitud estará disponible para su consulta y copia en la Oficina Central de la TCEQ y en la Oficina Regional de la TCEQ en 6801 Sanger Avenue, Suite 2500, Waco, Texas 76710-7826 Condado de McLennan, Texas en horario de atención (lunes a viernes de 8:00 a. m. a 5:00 p. m.), a partir del primer día de la publicación de este aviso.

INFORMACIÓN. Para más información sobre el proceso de tramitación de permisos, favor de llamar al Programa de Educación pública de la TCEQ sin costo al 1-800-687-4040, o bien visitar su sitio web, www.tceq.texas.gov/goto/pep. Para información en español, favor de llamar al 1-800-687-4040. También es posible consultar oportunidades de participación pública en nuestro sitio web, www.tceq.texas.gov/goto/participation.

Es posible obtener más información de City of Killeen por correo a la siguiente dirección: 3118 Commerce Drive, Killeen, Texas 76543-4013, o bien mediante llamada a la Sra. Amanda Moore, Directora del Servicio de Control de Animales al teléfono (254)501-6619.

Fecha de emisión de este aviso: 9 de octubre de 2025

Brooke T. Paup, *Chairwoman*
Catarina R. Gonzales, *Commissioner*
Tonya R. Miller, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 9, 2025

MRS AMANDA MOORE
INTERIM DIRECTOR OF ANIMAL SERVICES
CITY OF KILLEEN
3118 COMMERCE DR
KILLEEN TX 76543-4013

Re: Declaration of Administrative Completeness
Animal Carcass Incinerator Registration for an Air Quality Standard Permit
Air Quality Registration Number: 181784
Animal Carcass Incinerator
Killeen, Bell County
Customer Reference Number: CN600674683
Regulated Entity Number: RN112298161

Dear Mrs. Moore:

The Texas Commission on Environmental Quality (TCEQ) has declared the above-referenced application, received on October 7, 2025, administratively complete on October 9, 2025.

You are now required to publish notice of your proposed activity no later than the 30th day after the executive director received the application, which is November 6, 2025. To help you meet the regulatory requirements associated with this notice, we have included the following items:

- Notice for Newspaper Publication
- Instructions for Public Notice
- Affidavits of Publication
- Notification List

Please note that it is very important that you follow all directions in the enclosed instructions. If you do not, you may be required to republish the notice. Some common errors are the unauthorized changing of notice wording or font, omission of air contaminants, and inaccurate plant site location information represented in the application. Additional information can be found at www.tceq.texas.gov/permitting/air/bilingual/how1_2_pn.html or **if you have any questions, please contact us before you proceed with publication.**

The following items and time limitations are also described in the enclosed instructions. However, due to their importance we want to highlight them for you. **The processing of your application may be delayed if these time limitations are not met.**

1. Publish the enclosed notice no later than the 30th day after the date the executive director received the application, which is November 6, 2025 (see this letter's first paragraph for the application received date).
2. You may also be required to publish notice in an alternate language (refer to the enclosed *Instructions for Public Notice*). The Spanish notice templates are available at:

Mrs. Amanda Moore
Page 2
October 9, 2025

Re: Registration: 181784

www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html

3. Ensure a copy of your application is provided to the TCEQ Regional Office that has oversight for the county in which you intend to operate your plant. This copy must be in place at the TCEQ Regional Office for the entire public comment period and be accessible to the public for review and copying.
4. Mail or email proof of publication of the notices, which show publication date and newspaper name, to the TCEQ Office of the Chief Clerk and mail copies to those on the enclosed *Notification List* within **10 business days** after the notice is published.
5. Return the *Affidavit of Publication for Air Permitting* (enclosed) and, if applicable, *Alternative Language Affidavit of Publication for Air Permitting* (enclosed) and the **Public Notice Verification (Form TCEQ-20546)** to the Office of the Chief Clerk and copies to those on the enclosed *Notification List* within **10 business days** after the notice is published in the newspaper. **The public notice verification form is available at www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.**

If you do not comply with **all** requirements described in the instructions, the TCEQ cannot continue processing the application and may take other actions.

If you have any questions regarding publication requirements, please contact the Office of the Chief Clerk at (512) 239-3300. If you have any other questions, please contact Ms. Kimberly Cunningham at (512) 239-1114.

Sincerely,



Nancy Birdsong, Team Leader
Air Permits Initial Review Team
Air Permits Division
Texas Commission on Environmental Quality

Enclosure

cc: Air Section Manager, Region 9 - Waco

Project Number: 398918

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF APPLICATION FOR AN AIR QUALITY STANDARD PERMIT FOR AN ANIMAL CARCASS INCINERATOR

PROPOSED AIR QUALITY REGISTRATION NUMBER 181784

APPLICATION. City of Killeen, 3118 Commerce Drive, Killeen, Texas 76543-4013 has applied to the Texas Commission on Environmental Quality (TCEQ) for an Air Quality Standard Permit, Registration Number 181784, which would authorize construction of an animal carcass incinerator. The facility is proposed to be located at 3118 Commerce Drive, Killeen, Bell County, Texas 76543. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.701388,31.111388&level=13>. This application was submitted to the TCEQ on October 7, 2025. The primary function of this facility is to properly dispose of animal carcasses through incineration. The executive director has determined the application was administratively complete on October 9, 2025.

PUBLIC COMMENT. Public written comments about this application may be submitted at any time during the public comment period. The public comment period begins on the first date notice is published and extends to 30 days from the publication date. Public comments may be submitted either in writing to Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087, or electronically at www14.tceq.texas.gov/epic/eComment/. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record.

RESPONSE TO COMMENTS. A written response to all relevant comments will be prepared by the executive director after the comment period closes. The response, along with the executive director's decision on the application, will be mailed to everyone who submitted public comments and requested to be added to the mailing list. The response to comments will be posted in the permit file for viewing.

The executive director shall approve or deny the application not later than 30 days after the end of the public comment period, considering all comments received within the comment period, and base this decision on whether the application meets the requirements of the standard permit.

CENTRAL/REGIONAL OFFICE. The application will be available for viewing and copying at the TCEQ Central Office and the TCEQ Waco Regional Office, located at 6801 Sanger Avenue, Suite 2500, Waco, Texas 76710-7826, during the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, beginning the first day of publication of this notice. The application, including any updates, is available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/air/airpermit-applications-notices>.

INFORMATION. For more information about the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040. You can also view our website for public participation opportunities at www.tceq.texas.gov/goto/participation.

Further information may also be obtained from City of Killeen, 3118 Commerce Drive, Killeen, Texas 76543-4013, or by calling . Mrs. Amanda Moore, Interim Director of Animal Services at (254) 501-6619.

Notice Issuance Date: October 9, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



Instructions for Public Notice For Air Quality Standard Permit for Animal Carcass Incinerators

Notice of Application

Your application has been declared administratively complete and now you must comply with the following instructions:

Please Review Notice

We have included in the notice all of the information which we believe is necessary. Please read it carefully and notify us immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information published. You may not change the text of the notice without prior approval from the TCEQ.

Newspaper Notice

- You must publish the enclosed Notice of Application no later than the 30th day after the date the executive director received the application, which is November 6, 2025 (see this letter's first paragraph for the application received date).
- You must publish the enclosed Notice of Application at your expense, in a newspaper of general circulation in the municipality in which the facility is proposed to be located or in the municipality nearest to the proposed location of the facility.
- You must publish this notice in one issue of any applicable newspaper.
- You will find an example notice enclosed in this package. This example must be published in the "public notice" section of the newspaper.

Alternate Language Notice

In certain circumstances, applicants for air permits must complete notice in alternate languages.

- Public notice rules require the applicant to determine whether a bilingual program is required at either the elementary or middle school nearest to the proposed facility location. Bilingual education programs are determined on a district-wide basis. When students who are required to attend either school are eligible to be enrolled in a bilingual education program, some alternative language notice is required (newspaper notice).
- Since the school district, and not the schools, must provide the bilingual education program, these programs do not have to be located at the above-mentioned schools to trigger the alternative language notice requirement. If there are students who would normally attend the nearest schools, but are eligible to be taught in a bilingual education program at a different location, alternative language notice is required.
- If triggered, publication of alternative language notices must be made in a newspaper or publication printed primarily in each language taught in the bilingual education program. This

notice is required if such a newspaper or publication exists in the municipality or the county where the facility is or will be located.

- The applicant must demonstrate a good faith effort to identify a newspaper or publication in the required language. If a general circulation newspaper or publication printed in such language cannot be found, publishing in that language is not required. Publication in an alternative language section or insertion within a large publication which is not printed primarily in that alternative language does not satisfy these requirements.
- It is suggested the applicant work with the local school district for the following:
 - (a) Determine if a bilingual program is required in the district;
 - (b) Determine which language is required by the bilingual program;
 - (c) Locate the nearest elementary and middle schools; and
 - (d) Determine if any students attending either school are eligible to be enrolled in a bilingual educational program.

Proof of Publication

- You must submit proof of publication that shows the notice, the date of publication, and the name of the newspaper to the Office of the Chief Clerk within **10 business days** after the date of publication. Acceptable proofs of publication are 1) copies of the published notice or 2) the newspaper clippings of the published notice. If you choose to submit copies of the published notice to the Office of the Chief Clerk, copies must be on standard-size 8½" x 11" paper and must show the actual size of the published notice (do not reduce the image when making copies). Published notices longer than 11" must be copied onto multiple 8½" x 11" pages. Please note, submitting a copy of your published notice could result in faster processing of your application. It is recommended that you maintain newspaper clippings or tear sheets of the notice for your records.
- You must submit the **affidavits of publication** and the **Public Notice Verification Form (Form TCEQ-20546)** with the proof of publication described above to the Office of the Chief Clerk. **You must use the enclosed affidavit.** The affidavit must clearly identify the applicant's name and TCEQ Registration Number. **The public notice verification form is available at http://www.tceq.texas.gov/permitting/air/nav/air_publicnotice.html.**
- The **affidavits of publication and acceptable proof of publication of the published notices** should be emailed to PROOFS@tceq.texas.gov or mailed to:

Texas Commission on Environmental Quality
Office of the Chief Clerk, MC-105
Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

Please ensure that the affidavits you send to the Chief Clerk have all blanks filled in correctly.

- **Photocopies of newspaper clippings, affidavits, and verification form must also** be sent to those listed on the enclosed *Notification List* within the deadlines specified above.

Failure to Publish and Submit Proof of Publication

You must meet all publication requirements. **If you fail to publish the notice or submit proof of publication, on time, the TCEQ may suspend further processing on your application or take other actions.**

Application at the Regional Office

- You must provide a copy of the administratively complete application to the appropriate regional office that has jurisdiction over the county in which the plant is to be located. The application must be available for review and copying by the public.
- The administratively complete application must be available beginning the first day of newspaper publication and remain available until the end of the public hearing, which is the length of the public comment period.
- If the application is submitted to the TCEQ with information marked as confidential, you are required to indicate which specific portions of the application are not being made available to the public. These portions of the application must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to Texas Commission on Environmental Quality, Public Information Coordinator, MC-197, P.O. Box 13087, Austin, Texas 78711-3087."

General Information

When contacting the Commission regarding this application, please refer to the Registration Number at the top of the Notice of Application.

If you wish to obtain an electronic copy, please contact the technical reviewer who assisted in the preparation of this public notice package. The electronic copy will consist of the example notice, the equivalent in Spanish (if applicable), and the instructions. The electronic version is available in Microsoft Word format only and can be requested once your application has been declared administratively complete.

If you have questions or need assistance regarding publication requirements, please contact the Office of the Chief Clerk at (512) 239-3300 or the technical reviewer listed in the cover letter.

TCEQ-Office of the Chief Clerk
MC-105 Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

Applicant Name: City of Killeen
Permit No.: 181784
Application Received Date: October 7, 2025

AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared

_____, who being by me duly sworn, deposes and says that (s)he is *(Name of Person Representing Newspaper)*

the _____ of the _____
(Title of Person Representing Newspaper) *(Name of the Newspaper)*

that said newspaper is generally circulated in _____, Texas;
(The municipality or nearest municipality to the location of the facility or the proposed facility)

that the enclosed notice was published in said newspaper on the following date(s):

(Newspaper Representative's Signature)

Subscribed and sworn to before me this the _____ day of _____, 20____
to certify which witness my hand and seal of office.

[Affix Seal]

Notary Public in and for the State of Texas

Print or Type Name of Notary Public

My Commission Expires

TCEQ-Office of the Chief Clerk
MC-105 Attn: Notice Team
P.O. Box 13087
Austin, Texas 78711-3087

Applicant Name: City of Killeen
Permit No.: 181784
Application Received Date: October 7, 2025

ALTERNATIVE LANGUAGE AFFIDAVIT OF PUBLICATION FOR AIR PERMITTING

STATE OF TEXAS §
COUNTY OF _____ §

BEFORE ME, the undersigned authority, on this day personally appeared

_____, who being by me duly sworn, deposes and says that (s)he is (*Name of Person Representing Newspaper*)

the _____ of the _____;
(*Title of Person Representing Newspaper*) (*Name of the Newspaper*)

that said newspaper is generally circulated in _____, Texas;
(*The **municipality or county** in which the facility or proposed facility is located*)

that the enclosed notice was published in said newspaper on the following date(s):

(*Newspaper Representative's Signature*)

Subscribe and sworn to before me this the _____ day of _____, 20_____
to certify which witness my hand and seal of office.

[Affix Seal]

Notary Public in and for the State of Texas

Print or Type Name of Notary Public

My Commission Expires

Notification List

It is the responsibility of the applicant to furnish the following offices with copies of the notices published, the *Affidavit of Publication for Air Permitting*, the *Alternative Language Affidavit of Publication for Air Permitting (if applicable)*, and a completed copy of the *Public Notice Verification Form (Form TCEQ-20546)*. Acceptable proof of publication and any affidavits and Form TCEQ-20546 should be emailed to PROOFS@tceq.texas.gov or mailed to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087.

Electronic copies should be submitted via email to the U.S. Environmental Protection Agency (EPA), **Region 6** at R6AirPermitsTX@EPA.gov. Please contact Ms. Aimee Wilson (wilson.aimee@epa.gov) at (214) 665-7596 if you have any questions pertaining to electronic submittals to the EPA.

Email copies to Mr. Joshua Wheatley at Joshua.Wheatley@tceq.texas.gov

Hard copies should be sent to the following:

Texas Commission on Environmental Quality
Waco Regional Office
6801 Sanger Avenue, Suite 2500
Waco, Texas 76710-7826

For TCEQ Use Only

**Permit Application Routing and Summary Sheet
Air Permits**

This sheet should accompany all notices to be processed by the office of the chief clerk on the left side of the file folder.

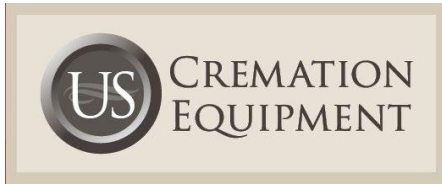
Name of applicant:City of Killeen	
Facility/ Site name: Animal Carcass Incinerator	
TCEQ permit number: 181784	
Application received date: October 7, 2025	
Customer reference number: CN600674683	
Regulated entity number: RN112298161	
County: Bell	Region: 9
Local program 1:	Local program 2:
Permit type: Standard Permit Application	
Internal program routing	
Tech. team leader: Mr. Joshua Wheatley	Phone no. (512) 239-4343
APIRT team leader: Nancy Birdsong	Date: October 9, 2025
Administratively reviewed by: Kimberly Cunningham	Phone no. (512) 239-1114
Administratively complete date: October 9, 2025	
Public viewing location must have internet access: ☐ Yes ☒ No	
Is 2nd public notice required: ☐ Yes ☒ No	
*Other	

For TCEQ Use Only

Applicant and Contact Information

This sheet should accompany all notices to be processed by the office of the chief clerk on the right side of the file folder.

Applicant's main contact and address to be shown on permit:	
Name/Title: Amanda Moore, Interim Director Of Animal Services	
Company: City Of Killeen	
Street/Road: 3118 Commerce Dr	
City/State/Zip: Killeen, TX 76543-4013	
Telephone: (254) 501-6619	Fax:
Applicant's technical representative/ consultant:	
Name/Title: Luis Llorens, President Project Manager	
Company: Ai Environmental Consulting Services Inc Us Cremation Equipment	
Street/Road: 2814 Silver Star Rd Ste 201d	
City/State/Zip: Orlando, FL 32808-3940	
Phone: (407) 923-3945	Fax: (321) 282-7358
Person responsible for publishing notice:	
Name/Title: Amanda Moore, Interim Director Of Animal Services	
Company: City Of Killeen	
Street/Road: 3118 Commerce Dr	
City/State/Zip: Killeen, TX 76543-4013	
Telephone: (254) 501-6619	Fax:



HUMAN CREMATION CHAMBER SPECIFICATION

"Classic X-CEL" aka Sierra 1200

EQUIPMENT:

U.S. Cremation Equipment, a division of American Incinerators Corporation -
Multiple Chambered Animal Cremator; Natural Gas, Propane (LP) or Oil fired.

MANUFACTURER:

U.S. Cremation Equipment a division of American Incinerators Corporation.

CONSTRUCTION STANDARDS:

The cremator shall be constructed of U.L./CSA listed components and will meet or exceed

nationally accepted incinerator construction standards as originally established per the Incinerator Institute of America (IIA) publication guidelines; i.e.:

- A. Primary chamber will not exceed 60% of total furnace volumes. Flue connection shall not be considered part of furnace volume.
- B. Flame supervision through continuous ultraviolet scanning flame detectors on all burners.
- C. High temperature refractory construction with air-cooled walls to prevent excessive heat radiation.
- D. Exhaust gas temperature reduction.

SAFETY CERTIFICATIONS

Underwriters Laboratories (UL) listed appliance File number 3UP5.

CREMATOR DIMENSIONS:

Chamber volumes:	Primary - 114 CF (3.23 CM) Secondary - 101 CF (2.86 CM)
Primary Chamber:	101" L x 52" W x 39" H (2565 mm x 1321 mm x 991 mm)
Structural footprint:	169" L x 76" W (4293 mm x 1930 mm)
Over-all dimensions:	169" L x 85" W (W/ Control Panel) x 120" H (4293 mm L x 2159 mm W x 3048 mm H)

POWER CHARGING DOOR:

Door Height:	42" (1067 mm)
Door Width:	55 1/4" (1403 mm)

PRIMARY CHAMBER OPENING:

Width: 52" (1321 mm)
Roof Arch Height: 39" (984 mm) @ High Point – 35" @ Low Point

OPERATING TEMPERATURE:

Temperatures are determined as a result of federal, state or local permitting authority operating standards.

Typical primary chamber setting: 1,000°F-1,200°F (538°C - 648°C)
Typical secondary chamber setting: 1,400°F-1,800°F (760°C - 982°C)

RETENTION TIME:

In excess of 2 seconds.

CAPACITY:

Single load capacity of 1200 lbs (544 kg) per cremation cycle. Burn Rate of 150-400 lbs/hr
(68 - 181 kg)

DRAFT:

Induced via refractory lined draft inducer.

SHIPPING WEIGHT:

36,000 lbs. (16,329 kg)

EMISSIONS:

The U.S. Cremation Equipment cremator shall meet or exceed federal, state/province and local environmental regulations.

EMISSION CONTROL:

Secondary chamber equipped with one 2,000,000 BTU/HR burner. Also equipped with an electronic exhaust gas scanner system which temporarily suspends operation of the primary chamber burner if the opacity of the exhaust gases reaches the maximum locally authorized level.

STEEL CONSTRUCTION SPECIFICATIONS:

- A. The structure to be heavy 3" steel angle, square tube; 3/8" steel plate, seal welded construction.
- B. Subfloor to be 3/16" steel plate, seal welded construction.
- C. The exterior shell to be 12 gauge steel removable panels.
- D. Interior shell to be 10 gauge steel, seal welded construction.

INSULATION & REFRACTORY SPECIFICATIONS:

- A. Hot Hearth: 3000°F (1650°C) abrasion resistant cast refractory monolithic cast 7"-13" thick, 1 ½" recessed top and rounded, stressed arched bottom.
- B. Chamber Floors: 3000°F (1650°C) abrasion resistant cast refractory, 5" thick on top of 2" 2400°F (1316°C) light weight insulating castable.
- C. Chamber Ceilings: 3000°F (1650°C) cast refractory, monolithic cast, rounded, stressed arched, 5"-9" thick, topped by 2", 2400°F (1316°C) light weight insulating castable.
- D. Interior Walls: 2800°F (1538°C) alumina-silicate firebrick, 2 1/2" x 4 1/2" x 9", all chambers are backed by 4" (102 mm) of 1900°F (1038°C) ceramic fiber insulation. Secondary chamber has 5" insulation.
- E. Stack: Lined with 3" (76 mm) of 2200°F (1205°C) insulating refractory plus ¼ inch (6.25 mm) insulating paper.

SKIN TEMPERATURE CONTROL:

Integral dual casing, completely air-cooled design to prevent excessive heat radiation.

COMBUSTION EQUIPMENT:

- A. Combustion Air - One (1) single or 3 phase, 220/460V, 17-15.5/7.6 amp, 7.5 hp air blower motor 1,700 CFM (158 CMM) or 980 CFM 5 hp blower.
- B. Primary Chamber - One 1,500,000 BTU/hr nozzle mix, gas-fired burner; Eclipse, North American, or equal.
- C. Secondary Chamber - One, 2,000,000 BTU/hr modulating, nozzle mix, gas-fired burner. Eclipse, North American, or equal.
- D. Burner Flame Safeguard - Control supervision on each burner via a flame safeguard relay and ultra-violet light detector.
- E. Low Air Pressure Safety Switch - Interlocked to all burners.

EXHAUST GAS TEMPERATURE REDUCTION:

Hot air duct operating exit temperature: 900°F (482°C)

HOT AIR DUCT:

10 gauge carbon steel, high temperature 2-3" (50 – 75 mm) refractory lining, pre-drilled flanges,
24" (610 mm) Outside Diameter, 28" (710 mm) at flanges.

UTILITY REQUIREMENTS:**A. GAS:**

- 1. Pressure:
 - a) Natural Gas: 7-9" W.C. (178-228 mm)
 - b) LP Gas (Propane): 11-14" W.C. (288-355 mm)
- 2. Flow Rate: 4,000,000 BTU/hr

B. ELECTRICAL:

Voltage: 208/230/360 Volts
Phase: Single or 3 Phase

Frequency: 50/60Hz

Amperage: 40 Amp for 3; 70 Amp for single Phase

CREMATION CHAMBER LOADING/CLEAN-OUT DOOR:

Hydraulically operated, refractory lined, upward movement guillotine style door w/view port. It is a front loading-front cleanout design with cremated remains collection/ cooling hopper and removal system. The hydraulic system pump is a 1 HP with a capacity of 15 liters per minute or equivalent system.

CREMATION PROCESS CONTROL:

The cremation cycle is controlled by a programmable logic control (PLC) system. Visual confirmation of the system status is provided through a Color Touch Screen Panel which displays temperatures, elapsed time, burner operation and other functions. Continuous fuel and air modulation is automatically controlled by a time/temperature actuated system. Operator interface performed through the Color Touch Screen. A Temperature Chart Recorder (if applicable) is provided.

EXTERIOR FINISH:

The top and rear compartments are finished with two coats of high-temperature, textured, black polyurethane. The front and side panels are powder coated in a claret color. The cremator is trimmed in stainless steel.

TOOLS:

The tools consist of a steel wire brush and rake with long handles, and a short handle rake. A trigger Hand Magnet for removal of metal is also included.

Killeen Animal Services

New Crematory Location

Legend

- Armstrong McCall Professional Beauty?
- Feature 1
- Feature 2
- Montaussori By Rae
- Site



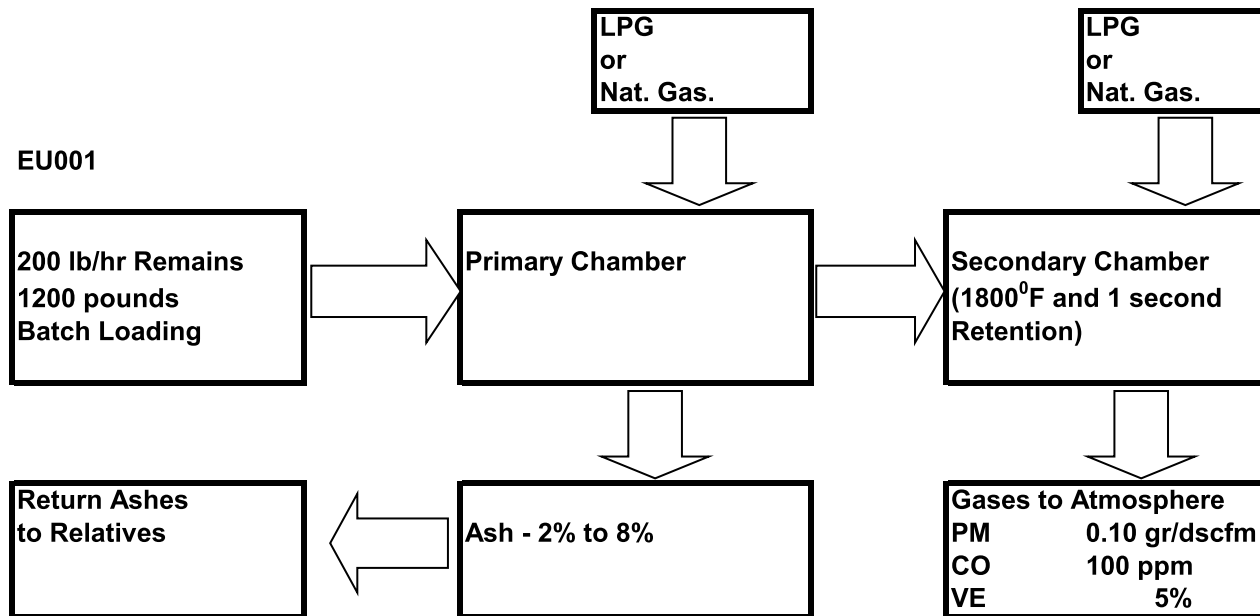
Google Earth

Image © 2025 Airbus

200 ft

Process Flow Diagram

Animal Crematory



BEATTY ENVIRONMENTAL SERVICES, LLC

315 SE 20TH PL, CAPE CORAL, FL 33990
PHONE: (239) 246-3646
EMAIL: BEATTYENVIRONMENTAL12@GMAIL.COM

May 9, 2017

Luis Llorens
US Cremation Equipment
598 S. Northlake Blvd. Suite 1016
Altamonte Springs, Florida 32701

Re: US Cremation Equipment (XCEL)

Dear Mr. Llorens,

On May 1, 2017, EPA Methods 1-5, 9 and 10 for Particulate, Visible and Carbon Monoxide emissions were conducted on an US Cremation Equipment Model XCEL located at 4442 Holden Road in Lakeland, FL. The unit will be installed at Evans Eagle Vaults, Inc. located at 15 Graybill Road in Leola, PA 17540-7818. The following cremation unit was tested

- US Cremation Equipment XCEL

If you have any questions regarding the report please contact our office as soon as possible.

Sincerely,



Zachary Beatty
Beatty Environmental Services, LLC

Electronic Copy to: US Cremation Equipment

Source Test Report for Particulate, Visible and Carbon Monoxide Emissions

EPA Method 1-5, 9 & 10 Report 17029-ST

Conducted:

May 1, 2017

Prepared for:

**Evans Eagle Vaults, Inc.
15 Graybill Road
Leola, PA
&
US Cremation Equipment**

By:



**Beatty Environmental Services, LLC
315 SE 20th Pl
Cape Coral, FL 33990
(239) 246-3646**

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1.0 Introduction

On May 1, 2017, EPA Methods 1-5, 9 & 10 for Particulate Matter (PM), Visible Emissions (VE) and Carbon Monoxide (CO) were performed on a U.S. Cremation Equipment Human Cremation retort Model XCEL, located at 4442 Holden Road in Lakeland, Florida. The cremation unit is being installed at Evans Eagle Vaults, Inc. located at 15 Graybill Road in Leola, PA.

During the testing period, Luis Llorens of U.S. Cremation Equipment maintained a log containing the emission control device and process data. This information is presented, along with the temperature chart, in Attachment C.

The results of this test verify compliance with the rules as set forth by Florida Department of Environmental Protection referenced under CFR Part 62-296.401 for incinerators.

2.0 Certification of Test Results

Facility Tested: US Cremation Equipment
4442 Holden Road
Lakeland Florida 33811

Type Process: Human Cremation-XCEL

Abatement Device: Afterburner

Report: 17029-ST

Date: May 1, 2017

Actual Particulate Emissions (gr/dscf @ 7% O₂) - 0.009
Allowable Particulate Emissions (gr/dscf @ 7% O₂) - 0.080

Actual Visible Emission - 0.00%
Allowable Visible Emission Rate (%) - 5.00%

Actual Carbon Monoxide Emissions (ppm @ 7% O₂) - 3.17
Allowable Carbon Monoxide Emissions (ppm @ 7% O₂) - 100

All testing and analysis was performed in accordance with 40 CFR Part 60.

I hereby certify that to my knowledge, all information and data submitted in this report is true and correct.

A handwritten signature in black ink, appearing to read "Daniel Beatty". The signature is stylized with a large, looped "D" and a long, sweeping underline.

Daniel Beatty
Project Director

3.0 Allowable Emission Determination

The allowable emissions were determined by permit specific conditions.

Substantiating data and calculations are presented in the Appendix D.

4.0 Cyclonic Flow Determination

Due to the configuration of the system, cyclonic flow was considered to be non-existent at the sampling site.

5.0 Summary of Results
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

	Run 1	Run 2	Run 3	Average
Date	5/1/2017	5/1/2017	5/1/2017	
Start Time	10:10	12:08	14:05	
Stop Time	11:15	13:12	15:10	
Process Rate (pounds/hr.)	179	165	190	178
Particulate Emission Rate (gr./dscf @ 7% O ₂)	0.0060	0.0112	0.0106	0.009
Allowable Particulate Emission Rate (gr./dscf @7% O ₂)	0.080	0.080	0.080	0.080
Visible Emission Rate (%) (highest six minute average)	0.00			0.00
Allowable Visible Emission Rate (%) (with up to 20% for 3 min. per hour)	5.00			5.00
Carbon Monoxide Emission Rate (ppm @7% O ₂)	5.86	2.01	1.65	3.17
Allowable Carbon Monoxide Emission Rate (ppm @7% O ₂)	100	100	100	100

6.0 Visible Emission Results

US Cremation Equipment

Model XCEL (Evans Eagle Vaults, Inc.)

17029-ST

Emission Point	Allowable Emission Rate (highest six minute average)	Emission Rate (highest six minute average)	Average Opacity
Exhaust Stack	5.00	0.00	0.00

7.0 Particulate Emission Results
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

	Run 1	Run 2	Run 3
Area (square feet)	2.18	2.18	2.18
Stack Pressure (inches Hg)	30.10	30.10	30.10
Meter Pressure (inches Hg)	30.26	30.28	30.28
Sample Volume (Std. Cu. Ft.)	52.353	54.183	54.516
Water Vapor (Cubic Feet)	9.10	6.96	4.62
Sample Moisture (percent)	14.81	11.38	7.82
Saturation Moisture (percent)	100.00	100.00	100.00
Molecular Weight (lbs/lb Mole wet)	27.35	28.00	28.40
Velocity (fpm)	1372	1437	1379
Volumetric Flow Rate (acfm)	2993	3136	3008
Volumetric Flow Rate (scfm-dry)	872	941	953
Concentration (gr/dscf)	0.0027	0.0039	0.0037
Concentration@7% O2 (gr/dscf)	0.0060	0.0112	0.0106
Mass Emission Rate (lbs./hr.)	0.02	0.03	0.03
Percent Isokinetic	102.48	98.29	97.69

8.0 Carbon Monoxide Emission Results
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

	Run1	Run 2	Run 3	Average
Date	5/1/2017	5/1/2017	5/1/2017	
Start Time	10:10	12:08	14:05	
Stop Time	11:15	13:12	15:10	
Percent Oxygen	14.5	16	16	
Carbon Monoxide (PPM)	2.70	0.71	0.58	
Carbon Monoxide Emissions (PPM @ 7% O ₂)	5.86	2.01	1.65	3.17
Carbon Monoxide Allowable (PPM@ 7% O ₂)	100	100	100	100

9.0 Overview of Field and Analytical Procedures

9.1 EPA Method 1 – Sample and Velocity Traverses for Stationary Sources

Principle – To aid in the representative measurement of pollutant emissions and/or total volumetric flow rate from a stationary source, a measurement site where the effluent stream is flowing in a known direction is selected and the cross-section of the stack is divided into a number of equal areas. A traverse point is then located within each of these equal areas. See Sampling Point Determination.

Applicability – This method is applicable to flowing gas streams in ducts, stacks and flues. This method cannot be used when: 1) flow is cyclonic or swirling 2) a stack is smaller than about 12 inches in diameter, or 0.071 cross-sectional area or 3) the measurement site is less than two stack or duct diameters downstream or less than a half diameters upstream from a flow disturbance. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.2 EPA Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate

Principle - Type S Pitot Tube – The average gas velocity in a stack is determined from the gas density and from measurement of the average velocity head with a Type S pitot tube.

Applicability – This method is applicable for measurement of the average velocity of a gas stream and for quantifying gas flow. This procedure is not applicable at measurement sites which fail to meet the criteria of Method 1. This method cannot be used for direct measurement in cyclonic or swirling gas streams. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.3 EPA Method 3 – Gas Analysis for the EPA Determination of Dry Molecular Weight

Principle – A gas sample is extracted from a stack by one of the following methods (1) A multi-point grab sampling method using an Orsat analyzer to analyze the individual grab sample obtained at each point; (2) a method for measuring either CO₂ or O₂ and using stoichiometric calculations to determine dry molecular weight; and (3) assigning a value of 30.0 for dry molecular weight, in lieu of actual measurements, for processes burning natural gas, coal, or oil.

Applicability – This method is applicable for determining carbon dioxide and oxygen concentrations and dry molecular weight of a sample from a gas stream of a fossil fuel combustion process. The method may also be applicable to other processes where it has been determined that compounds other than CO₂, O₂, CO, and nitrogen are not present in concentrations sufficient to affect the results. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.4 EPA Method 4 - Determination of Moisture Content in Stack Gases

Principle – A gas sample is extracted at a constant rate from the source; moisture is removed from the sample stream and determined either volumetrically or gravimetrically. A

Applicability – This method is applicable for determining the moisture content of stack gas. There are two procedures given to determine the moisture. The procedure for the reference method to determine the moisture content was used to calculate the emission data. The reference method was conducted simultaneously with the pollutant emission measurement run, pollutant emission rate, etc. for the run is based upon the results of the reference method or its equivalent. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

9.5 EPA Method 5 – Determination of Particulate Emissions from Stationary Sources

Principle – Particulate matter is withdrawn isokinetically from the source collected on a glass fiber filter maintained at a temperature in the range of 223-273 degrees F or such other temperature as specified by an applicable subpart of the standards or approved by the Administrator, US Environmental Protection Agency for a particular application. The particulate mass which includes any material that condenses at or

above the filtration temperature is determined gravimetrically after removal of uncombined water.

Applicability – This method is applicable for the determination of particulate emissions from stationary sources. The procedures in this method were utilized in its entirety according to the procedures outlined in 40 CFR Part 60, Appendix A.

Diagram of EPA Method 5 Sampling Train

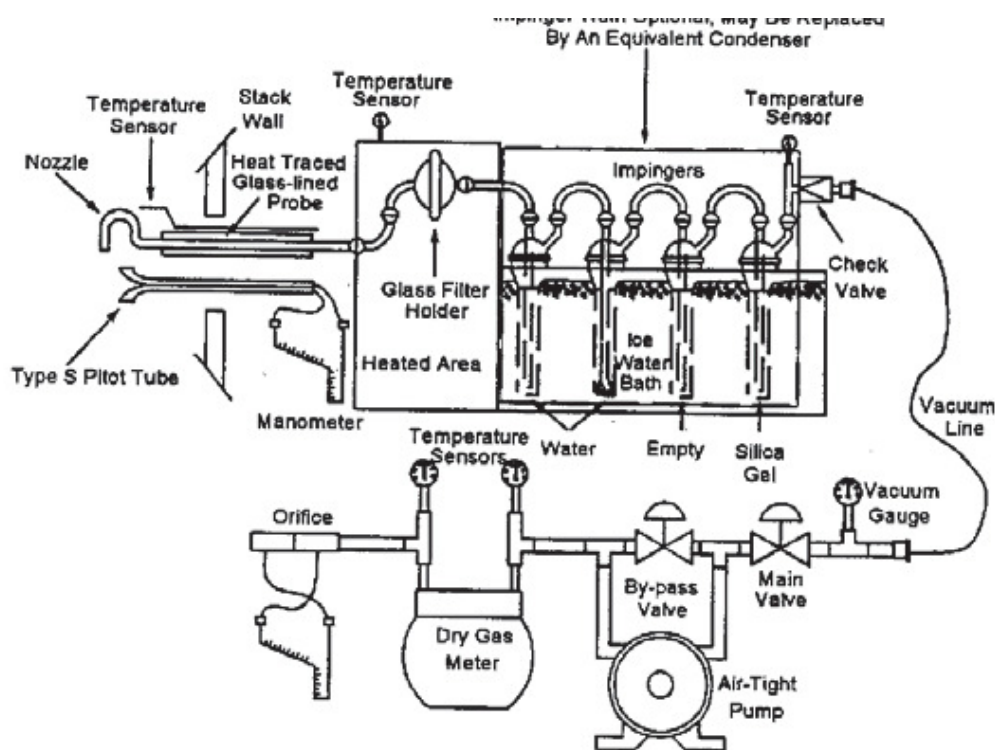


Figure F5-1. Particulate Sampling Train.

9.6 EPA Method 9 – Visual Determination of the Opacity of Emissions from Stationary Sources

Principle - The opacity of emissions from stationary sources is determined visually by a Qualified observer.

Applicability - This method is applicable for the determination of the opacity of emissions from stationary sources pursuant to 60.11(b) and for qualifying observers or visually determining the opacity of emissions.

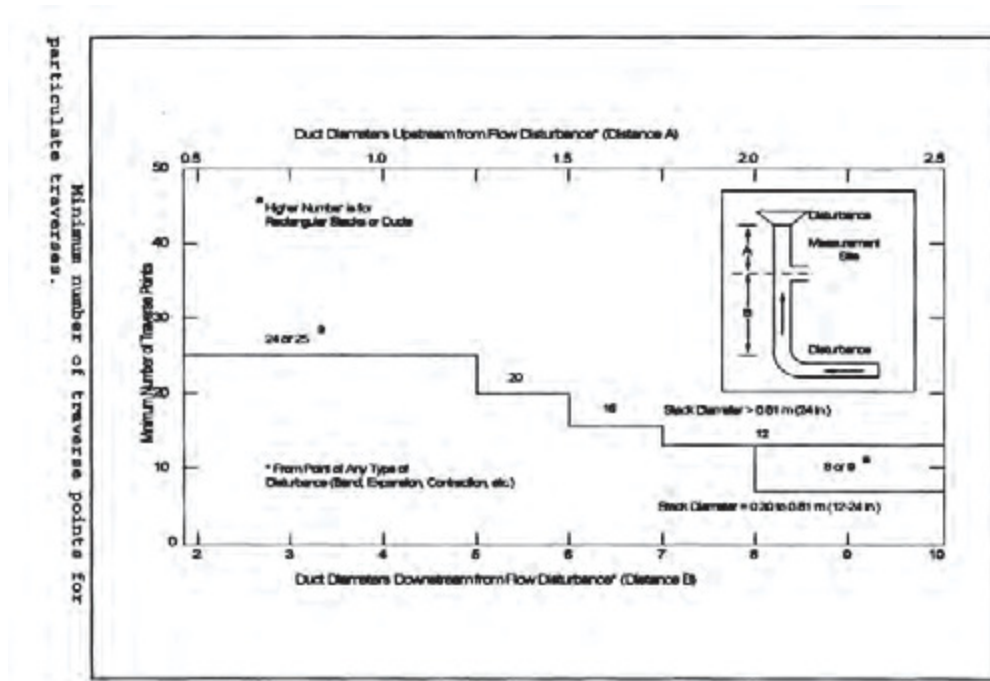
9.7 EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources

Principle - An integrated or continuous gas sample is extracted from a sampling point and analyzed for carbon monoxide (CO) content. Performance specifications and test procedures are provided to ensure reliable data.

Applicability - This method is applicable for the determination of carbon monoxide emissions from stationary sources. The process will dictate whether a continuous or an integrated sample is required. If the process produces CO spikes that would exceed the span (as determined from the allowable), then an integrated procedure is required.

10.0 Sampling Point Determination Procedure

Minimum Number of Sampling Points Per Traverse



Circular Stacks

The number of sampling points is selected according to the above diagram, with the number of points equaling the next higher multiple of four.

Rectangular Stacks

The number of sampling points is determined using the matrix below.

Number of Traverse Points	Subarea Layout Matrix
9	3x3
12	4x3
16	4x4
20	5x4
25	5x5
30	6x5
36	6x6
42	7x6
49	7x7

10.1 Sampling Point Determination
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

Stack Configuration	Circular
Diameter (inches)	20
Distance A - Ports to Downstream Disturbance (inches)	24
Distance A - Ports to Downstream Disturbance (diameters)	1.2
Distance B - Ports to Upstream Disturbance (inches)	120
Distance B - Ports to Upstream Disturbance (diameters)	6.0
Number of Test Ports	2
Wall or Port length	1
Number of Sampling Points per Traverse	12
Number of Points Sampled	24

Photograph of Stack



Traverse Point Location	
Traverse Point No.	Inches to Sample Point offset
1	1.4
2	2.3
3	3.4
4	4.5
5	6.0
6	8.1
7	13.9
8	16.0
9	17.5
10	18.6
11	19.7
12	20.6

11.0 Summary of Field and Laboratory Data
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

	Run 1	Run 2	Run 3
Date	5/1/2017	5/1/2017	5/1/2017
Start Time	10:10	12:08	14:05
Stop Time	11:15	13:12	15:10
CP	0.84	0.84	0.84
Y	1.0076	1.0076	1.0076
^Ha (inches H2O)	1.6542	1.6542	1.6542
Diameter of Nozzle (inches)	0.6250	0.6250	0.6250
Stack Diameter or Equivalent (inches)	20.00	20.00	20.00
Static Pressure (inches H2O)	-0.06	-0.06	-0.06
Barometric Pressure (inches Hg)	30.10	30.10	30.10
Test Time (minutes)	60	60	60
Meter Volume (cubic feet)	52.219	54.737	55.338
Square Root ^P (inches H2O)	0.232	0.245	0.238
Orifice Pressure ^H (inches H2O)	2.221	2.408	2.389
Average Meter Temperature (Deg. F)	76.5	83.7	86.3
Average Stack Temperature (Deg. F)	1092.1	1107.8	1085.2
Particulate Sample Weight (grms)	0.0093	0.0138	0.0131
Water Collected (grms)	193.0	147.6	98.0
Percent CO2	2.5	4.0	4.0
Percent O2	14.5	16.0	16.0
Molecular Weight (lbs/lb Mole)	28.98	29.28	29.28
Nozzle Area (square feet)	0.00213	0.00213	0.00213

Attachment A - Field Data

Particulate Field Data

Plant	US Cremation Equipment				Y _{qa}	1.0012		
Report	17029-ST-1				^Ha	1.6542		
Date	05/01/17				Dn	0.6250		
Operator	ZB				Diameter (in.)	20.0		
Time	Start -	10:10	End -	11:15	Traverses X Points	2	X	12
K Factor	41.0				Static Pressure	-0.06		
Assumed Moisture %	12				Barometric Pressure (in. Hg)	30.10		
Dry Gas Meter No.	1				Test Time (min.)	60		
Nozzle ID No.	#20				Metered Volume	52.219		
Wet Bulb Temperature	NA				Avg. Sq Rt ^P	0.232		
Post Leak Check	.000 CFM @ 15" Hg.				Avg. ^H	2.221		
Cp Factor	0.84				Avg. Meter Temp.	76.5		
Y	1.0076				Avg. Stack Temp.	1092.1		

[illegible]

Particulate Field Data

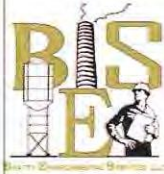
Plant	US Cremation Equipment				Y _{qa}	1.0010		
Report	17029-ST-2				^Ha	1.6542		
Date	05/01/17				Dn	0.6250		
Operator	ZB				Diameter (in.)	20.0		
Time	Start -	12:08	End -	13:12	Traverses X Points	2	X	12
K Factor	40.0				Static Pressure	-0.06		
Assumed Moisture %	15				Barometric Pressure (in. Hg)	30.10		
Dry Gas Meter No.	1				Test Time (min.)	60		
Nozzle ID No.	#20				Metered Volume	54.737		
Wet Bulb Temperature	NA				Avg. Sq Rt ^P	0.245		
Post Leak Check	.000 cfm @ 16" Hg.				Avg. ^H	2.408		
Cp Factor	0.84				Avg. Meter Temp.	83.7		
Y	1.0076				Avg. Stack Temp.	1107.8		

[illegible]

Particulate Field Data

Plant	US Cremation Equipment				Y _{qa}	0.9885		
Report	17029-ST-3				^Ha	1.6542		
Date	05/01/17				Dn	0.6250		
Operator	ZB				Diameter (in.)	20.0		
Time	Start -	14:05	End -	15:10	Traverses X Points	2	X	12
K Factor	42.0				Static Pressure	-0.06		
Assumed Moisture %	11				Barometric Pressure (in. Hg)	30.10		
Dry Gas Meter No.	1				Test Time (min.)	60		
Nozzle ID No.	#20				Metered Volume	55.338		
Wet Bulb Temperature	NA				Avg. Sq Rt ^P	0.238		
Post Leak Check	.000 CFM @ 15" Hg.				Avg. ^H	2.389		
Cp Factor	0.84				Avg. Meter Temp.	86.3		
Y	1.0076				Avg. Stack Temp.	1085.2		

[illegible]



Beatty Environmental Services, LLC

315 SE 20th Pl
Cape Coral, Florida 33990
(239) 246-3646

beattyenvironmental12@gmail.com

VISIBLE EMISSION OBSERVATION FORM

Method Used (Circle One) Method 9		203A	203B	Report
Company Name US Cremation Equipment				
Crematory Unit		AIRS Not Assigned		
Street Address 4442 Holden Road				
City Lakeland		Zip Code 33811		
Phone No. Luis Llorens 321-282-7357				

Process Cremation	Unit # 179 Lbs	Operating Mode Normal ON
Control Equipment After Burnes		

Describe Emission Point Round Stack	
Ht of Emis. Point ~25'	Ht Rel to Observer ~20'
Distance to Emis. Pt ~85'	Direction to Emis. Pt (Degrees) ~255°

Vertical Angle to Obs. <18°	Direction to Obs. Pt. (Degrees) ~255°
Distance and Direction to Obs. Pt from Emission Pt ~1' above	

Describe Emissions None	
Emission Color NA	Water Droplet Plume Attached Detached None X

Describe Plume Background Sky	
Background Color Gray	Sky Conditions overcast
Wind Speed 12-15 mph	Wind Direction SE
Ambient Temp. ~79°F	Wet Bulb Temp. ~ % RH ~74%

Source Layout Sketch		Draw North Arrow ☐ TN ☐ MN
Observation Point Observer's Position Sun Location Line Side View Stack Sun Wind		~25' Feet ~85' Feet Stack Sun Wind

Latitude 27° 59' 13"	Longitude 82° 0' 17"	Declination
--------------------------------	--------------------------------	-------------

Obsv. Descript. Crematory Exhaust Stack

Comments

START	STOP
-------	------

Observation Date		5-1-17				Start Time		1010				Stop Time		1116			
Sec Min	0		15		30		45		Sec Min	0		15		30		45	
	0		0		0		0			0		0		0		0	
1		0		0		0		0		31		0		0		0	
2		0		0		0		0		32		0		0		0	
3		0		0		0		0		33		0		0		0	
4		0		0		0		0		34		0		0		0	
5		0		0		0		0		35		0		0		0	
6		0		0		0		0		36		0		0		0	
7		0		0		0		0		37		0		0		0	
8		0		0		0		0		38		0		0		0	
9		0		0		0		0		39		0		0		0	
10		0		0		0		0		40		0		0		0	
11		0		0		0		0		41		0		0		0	
12		0		0		0		0		42		0		0		0	
13		0		0		0		0		43		0		0		0	
14		0		0		0		0		44		0		0		0	
15		0		0		0		0		45		0		0		0	
16		0		0		0		0		46		0		0		0	
17		0		0		0		0		47		0		0		0	
18		0		0		0		0		48		0		0		0	
19		0		0		0		0		49		0		0		0	
20		0		0		0		0		50		0		0		0	
21		0		0		0		0		51		0		0		0	
22		0		0		0		0		52		0		0		0	
23		0		0		0		0		53		0		0		0	
24		0		0		0		0		54		0		0		0	
25		0		0		0		0		55		0		0		0	
26		0		0		0		0		56		0		0		0	
27		0		0		0		0		57		0		0		0	
28		0		0		0		0		58		0		0		0	
29		0		0		0		0		59		0		0		0	
30		0		0		0		0		60		0		0		0	

Number of Readings Above 10 % were 0	Average Opacity for Highest 6 Min Period 0
---	---

Range of opacity Readings Min 0 Max 0
--

Observers Name (Print) Stephen C. Webb
--

Observers Signature Stephen C. Webb	Date 5-1-17
---	-----------------------

Organization Beatty Environmental Services, llc

Certified By ETA Whitlow	Date 1-20-17
------------------------------------	------------------------

Whitlow Enterprises, LLC

www.smokeschool.net

Certifies that

Stephen Webb – Coastal Air Consulting

Has passed the certification test required by EPA Method 9
40 CFR 60 Appendix A and is qualified as a visible emissions evaluator.

Certification Date: January 20, 2017 Location: Gainesville, FL

George Whitlow

President

GFL012017-32

US CREMATATIONS

DATE: 5/1/2017
 RUN: 1
 UNIT: 1

AVG. ADJUSTED CO ppmvd @ 7% O2	2.70
CORRECTED O2 %	14.31
CORRECTED CO2 %	2.50
CORRECTED CO ppmvd	1.28

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
25	% O2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	01420B153
		11.95	12.00	0.05	0.22	12.00	0.00	12.00	0.00	0.00	
		22.55	22.60	0.05	0.22						
20	% CO2	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.60	0.60	01410/B139
		8.59	8.50	-0.09	-0.54	8.50	0.00	8.50	0.00	0.00	
		16.74	16.70	-0.04	-0.24						
20	PPM CO	0.00	0.00	0.00	0.0	0.00	0.0	0.10	0.5	0.5	48C-68845-361
		9.07	9.1	0.03	0.2	9.10	0.0	9.00	-0.5	-0.5	
		18.20	18.30	0.10	0.5						
100	PPM CO	48.20	48.20	0.00	0.0	48.10	-0.1	48.10	-0.1	0.0	
		96.90	96.90	0.00	0.0						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
5/1/2017 10:10	14.57	2.30	1.63
5/1/2017 10:11	14.48	2.40	2.50
5/1/2017 10:12	14.26	2.60	2.63
5/1/2017 10:13	14.46	2.35	1.50
5/1/2017 10:14	14.41	2.30	1.75
5/1/2017 10:15	14.40	2.30	0.50
5/1/2017 10:16	14.41	2.35	1.63
5/1/2017 10:17	14.41	2.30	0.38
5/1/2017 10:18	14.41	2.30	1.13
5/1/2017 10:19	14.41	2.30	0.38
5/1/2017 10:20	14.41	2.35	1.38
5/1/2017 10:21	14.45	2.35	0.00
5/1/2017 10:22	14.47	2.35	0.00
5/1/2017 10:23	14.46	2.35	0.00
5/1/2017 10:24	14.48	2.30	0.00
5/1/2017 10:25	14.45	2.30	0.13
5/1/2017 10:26	14.44	2.30	0.50
5/1/2017 10:27	14.46	2.30	0.13
5/1/2017 10:28	14.46	2.20	2.88
5/1/2017 10:29	14.47	2.20	0.00
5/1/2017 10:30	14.45	2.25	0.00
5/1/2017 10:31	14.43	2.30	1.00
5/1/2017 10:32	14.43	2.30	0.00
5/1/2017 10:33	14.44	2.20	0.00
5/1/2017 10:34	14.45	2.30	0.13
5/1/2017 10:35	14.54	2.15	1.00
5/1/2017 10:36	14.53	2.20	2.38
5/1/2017 10:37	14.47	2.30	4.00
5/1/2017 10:38	14.54	2.15	1.25
5/1/2017 10:39	14.53	2.15	0.13
5/1/2017 10:40	14.43	2.20	0.00
5/1/2017 10:41	14.37	2.40	0.00
5/1/2017 10:42	14.34	2.45	0.00
5/1/2017 10:43	14.31	2.50	0.75
5/1/2017 10:44	14.29	2.60	0.75
5/1/2017 10:45	14.28	2.65	0.00
5/1/2017 10:46	14.26	2.65	0.13
5/1/2017 10:47	14.27	2.70	0.00
5/1/2017 10:48	14.29	2.70	0.50
5/1/2017 10:49	14.29	2.85	5.38
5/1/2017 10:50	14.28	2.85	2.63
5/1/2017 10:51	14.27	2.70	2.63
5/1/2017 10:52	14.26	2.75	5.63
5/1/2017 10:53	14.27	2.75	4.13
5/1/2017 10:54	14.28	2.75	0.88
5/1/2017 10:55	14.23	2.75	5.63
5/1/2017 10:56	14.21	2.90	0.00
5/1/2017 10:57	14.19	3.00	0.88
5/1/2017 10:58	14.21	2.95	0.38
5/1/2017 10:59	14.22	2.90	0.00
5/1/2017 11:00	14.23	2.90	0.00
5/1/2017 11:01	14.23	2.95	0.00
5/1/2017 11:02	14.24	2.95	0.00
5/1/2017 11:03	14.27	2.90	2.88
5/1/2017 11:04	14.26	2.90	8.25
5/1/2017 11:05	14.27	2.90	0.50
5/1/2017 11:06	14.33	2.80	1.88
5/1/2017 11:07	14.39	2.75	1.63
5/1/2017 11:08	14.52	2.50	0.25
5/1/2017 11:09	14.43	2.35	1.25
5/1/2017 11:10	14.43	2.30	4.88

MEAN ANALYZER VALUES

Avg. % O2 14.37
 Avg. % CO2 2.51
 Avg. CO ppmvd 1.32

US CREMATATIONS

DATE: 12/28/2015
 RUN: 2
 UNIT: 1

AVG. ADJUSTED CO ppmvd @ 7% O2	1.87
CORRECTED O2 %	15.62
CORRECTED CO2 %	4.08
CORRECTED CO ppmvd	0.71

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
25	% O2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	01420B153
		11.95	12.00	0.05	0.22	12.00	0.00	12.00	0.00	0.00	
		22.55	22.60	0.05	0.22						
20	% CO2	0.00	0.00	0.00	0.00	0.10	0.60	0.10	0.60	0.00	01410/B139
		8.59	8.50	-0.09	-0.54	8.50	0.00	8.40	-0.60	-0.60	
		16.74	16.70	-0.04	-0.24						
20	PPM CO	0.00	0.00	0.00	0.0	0.10	0.5	0.20	1.1	0.5	48C-68845-361
		9.07	9.10	0.03	0.2	9.00	-0.5	9.00	-0.55	0.0	
		18.20	18.30	0.10	0.5						
100	PPM CO	48.20	48.20	0.00	0.0	48.10	-0.1	47.40	-0.83	-0.7	
		96.90	96.90	0.00	0.0						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
5/1/2017 12:08	14.94	3.22	0.25
5/1/2017 12:09	14.88	2.82	0.38
5/1/2017 12:10	15.18	2.73	1.38
5/1/2017 12:11	15.28	2.53	2.25
5/1/2017 12:12	15.38	2.34	0.50
5/1/2017 12:13	15.46	2.16	0.13
5/1/2017 12:14	15.51	1.90	0.25
5/1/2017 12:15	15.61	1.73	3.63
5/1/2017 12:16	15.65	1.77	5.75
5/1/2017 12:17	15.71	1.89	1.00
5/1/2017 12:18	15.77	2.24	1.25
5/1/2017 12:19	15.77	2.53	0.38
5/1/2017 12:20	15.79	3.97	0.13
5/1/2017 12:21	15.81	4.46	0.38
5/1/2017 12:22	15.84	4.28	0.00
5/1/2017 12:23	15.86	3.79	0.00
5/1/2017 12:24	15.82	4.01	0.00
5/1/2017 12:25	15.77	4.52	0.00
5/1/2017 12:26	15.70	4.56	0.00
5/1/2017 12:27	15.69	4.57	0.00
5/1/2017 12:28	15.70	4.55	0.38
5/1/2017 12:29	15.66	4.59	1.25
5/1/2017 12:30	15.64	4.58	0.88
5/1/2017 12:31	15.62	4.63	0.13
5/1/2017 12:32	15.60	4.63	0.25
5/1/2017 12:33	15.56	4.65	0.50
5/1/2017 12:34	15.56	4.71	0.25
5/1/2017 12:35	15.41	4.83	0.13
5/1/2017 12:36	15.42	4.82	0.00
5/1/2017 12:37	15.41	4.82	0.00
5/1/2017 12:38	15.39	4.83	0.75
5/1/2017 12:39	15.36	4.80	1.75
5/1/2017 12:40	15.71	4.78	0.50
5/1/2017 12:41	15.57	4.79	2.38
5/1/2017 12:42	15.48	4.80	2.63
5/1/2017 12:43	15.59	4.77	2.38
5/1/2017 12:44	15.93	4.79	0.88
5/1/2017 12:45	15.46	4.79	0.13
5/1/2017 12:46	15.40	4.78	0.13
5/1/2017 12:47	15.39	4.74	0.25
5/1/2017 12:48	15.57	4.57	0.38
5/1/2017 12:49	15.68	4.56	0.75
5/1/2017 12:50	15.82	4.04	2.00
5/1/2017 12:51	16.53	3.65	1.13
5/1/2017 12:52	17.01	3.28	0.25
5/1/2017 12:53	17.49	3.04	0.13
5/1/2017 12:54	17.69	2.97	0.00
5/1/2017 12:55	17.06	3.61	0.13
5/1/2017 12:56	15.81	4.51	0.00
5/1/2017 12:57	15.71	4.56	0.13
5/1/2017 12:58	15.62	4.64	1.00
5/1/2017 12:59	15.51	4.72	1.25
5/1/2017 13:00	15.48	4.75	0.50
5/1/2017 13:01	15.46	4.76	0.25
5/1/2017 13:02	15.48	4.77	0.25
5/1/2017 13:03	15.49	4.76	0.50
5/1/2017 13:04	15.48	4.77	2.88
5/1/2017 13:05	15.46	4.79	2.38
5/1/2017 13:06	15.48	4.81	1.13
5/1/2017 13:07	15.48	4.81	1.50
5/1/2017 13:08	15.46	4.81	1.88

MEAN ANALYZER VALUES

Avg. % O2 15.69
 Avg. % CO2 4.06
 Avg. CO ppmvd 0.84

US CREMATIONS

DATE: 12/28/2015
 RUN: 3
 UNIT: 1

AVG. ADJUSTED CO ppmvd @ 7% O2	1.72
CORRECTED O2 %	16.22
CORRECTED CO2 %	4.29
CORRECTED CO ppmvd	0.58

ANALYZER RESPONSE, SYSTEM BIAS AND SYSTEM DRIFT DATA

RANGE SETTING	CAL GASES	CERTIFIED GAS VALUE	ANALYZER VALUE	DIFFERENCE PPM	% SPAN	ANALYZER PRETEST VALUE	% SPAN	ANALYZER POSTTEST VALUE	% SPAN	% DRIFT	ANALYZER SERIAL #
25	% O2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	01420B153
		11.95	12.00	0.05	0.22	12.00	0.00	12.00	0.00	0.00	
		22.55	22.60	0.05	0.22						
20	% CO2	0.00	0.00	0.00	0.00	0.10	0.60	0.10	0.60	0.00	01410/B139
		8.59	8.50	-0.09	-0.54	8.40	-0.60	8.40	-0.60	0.00	
		16.74	16.70	-0.04	-0.24						
20	PPM CO	0.00	0.00	0.00	0.0	0.20	1.1	0.20	1.1	0.0	48C-68845-361
		9.07	9.10	0.03	0.2	9.00	-0.5	9.00	-0.5	0.0	
		18.20	18.30	0.10	0.5						
100	PPM CO	48.20	48.20	0.00	0.0	47.40	-0.8	47.30	-0.9	-0.1	
		96.90	96.90	0.00	0.0						

UNCORRECTED RAW DATA

DATE & TIME	O2 %	CO2 %	CO PPM
5/1/2017 14:05	15.21	5.09	0.00
5/1/2017 14:06	15.43	4.96	0.38
5/1/2017 14:07	15.53	4.85	0.00
5/1/2017 14:08	15.65	4.78	0.00
5/1/2017 14:09	15.70	4.69	0.00
5/1/2017 14:10	15.86	4.60	0.13
5/1/2017 14:11	15.93	4.58	0.00
5/1/2017 14:12	15.89	4.59	0.13
5/1/2017 14:13	15.89	4.59	0.13
5/1/2017 14:14	15.88	4.57	0.13
5/1/2017 14:15	15.96	4.54	0.00
5/1/2017 14:16	15.92	4.53	0.00
5/1/2017 14:17	15.98	4.53	0.00
5/1/2017 14:18	15.91	4.55	0.88
5/1/2017 14:19	15.95	4.54	0.00
5/1/2017 14:20	15.91	4.54	0.00
5/1/2017 14:21	15.98	4.49	0.13
5/1/2017 14:22	15.95	4.53	0.00
5/1/2017 14:23	15.95	4.51	0.13
5/1/2017 14:24	15.97	4.40	0.00
5/1/2017 14:25	15.94	4.06	0.00
5/1/2017 14:26	15.99	4.09	0.00
5/1/2017 14:27	15.94	3.98	0.00
5/1/2017 14:28	15.72	4.68	0.50
5/1/2017 14:29	15.85	4.61	1.25
5/1/2017 14:30	15.89	4.58	2.00
5/1/2017 14:31	15.88	4.59	1.00
5/1/2017 14:32	15.88	4.59	0.75
5/1/2017 14:33	15.92	4.58	0.75
5/1/2017 14:34	15.99	4.55	0.75
5/1/2017 14:35	15.95	4.55	0.75
5/1/2017 14:36	15.99	4.54	1.25
5/1/2017 14:37	15.95	4.52	0.75
5/1/2017 14:38	15.96	4.52	2.50
5/1/2017 14:39	15.96	4.49	2.63
5/1/2017 14:40	16.04	4.44	2.38
5/1/2017 14:41	16.04	4.45	1.63
5/1/2017 14:42	17.75	2.97	1.25
5/1/2017 14:43	20.14	1.31	1.75
5/1/2017 14:44	20.04	1.49	1.75
5/1/2017 14:45	18.31	2.74	1.25
5/1/2017 14:46	17.83	3.11	0.88
5/1/2017 14:47	17.78	3.18	1.25
5/1/2017 14:48	17.71	3.21	1.63
5/1/2017 14:49	17.56	3.37	3.75
5/1/2017 14:50	16.68	4.04	2.75
5/1/2017 14:51	16.33	4.26	1.50
5/1/2017 14:52	16.21	4.34	0.75
5/1/2017 14:53	16.05	4.41	0.88
5/1/2017 14:54	16.08	4.42	1.50
5/1/2017 14:55	16.09	4.42	0.88
5/1/2017 14:56	16.09	4.43	0.38
5/1/2017 14:57	16.11	4.41	0.25
5/1/2017 14:58	16.12	4.39	0.25
5/1/2017 14:59	16.16	4.38	0.13
5/1/2017 15:00	16.16	4.37	0.13
5/1/2017 15:01	16.18	4.36	0.13
5/1/2017 15:02	16.16	4.35	0.13
5/1/2017 15:03	16.24	4.32	0.50
5/1/2017 15:04	16.23	4.31	0.75
5/1/2017 15:05	16.21	4.30	1.13

MEAN ANALYZER VALUES

Avg. % O2 16.29
 Avg. % CO2 4.25
 Avg. CO ppmvd 0.76

Attachment B - Laboratory Data

Particulate Laboratory Data
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

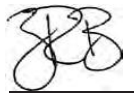
Run 1

Filter Number	2400	
	Final Weight	0.3465 grams
	Tare Weight	0.3430 grams
	Difference	0.0035 grams
Beaker Number	1C	
	Final Weight	114.0614 grams
	Tare Weight	114.0553 grams
	Difference	0.0061 grams
Filter Blank Number	2412	
	Final Weight	0.3380 grams
	Tare Weight	0.3380 grams
	Difference	0.0000 grams
Acetone Wash Down		
	Volume of Rinse	140 mL
	Residue in Rinse (calculated)	2.53197E-06 mg/mg
	Total Residue in Rinse	0.00028 grams
Total Particulate Weight		0.0093 grams

Water Collected

	Final Impinger Water	382 mL
	Initial Impinger Water	200 mL
	Final Silica Weight	211.3 grams
	Silica Tare Weight	200.0 grams
Total Water Collected		193.0 grams

Analyst



Particulate Laboratory Data
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

Run 2

Filter Number	2401	
	Final Weight	0.3521 grams
	Tare Weight	0.3440 grams
	Difference	0.0081 grams
Beaker Number	2C	
	Final Weight	117.5142 grams
	Tare Weight	117.5082 grams
	Difference	0.0060 grams
Filter Blank Number	2412	
	Final Weight	0.3380 grams
	Tare Weight	0.3380 grams
	Difference	0.0000 grams
Acetone Wash Down		
	Volume of Rinse	130 mL
	Residue in Rinse (calculated)	2.53197E-06 mg/mg
	Total Residue in Rinse	0.00026 grams
Total Particulate Weight		0.0138 grams

Water Collected

	Final Impinger Water	336 mL
	Initial Impinger Water	200 mL
	Final Silica Weight	211.8 grams
	Silica Tare Weight	200.0 grams
Total Water Collected		147.6 grams

Analyst



Particulate Laboratory Data
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

Run 3

Filter Number	2402	
	Final Weight	0.3511 grams
	Tare Weight	0.3447 grams
	Difference	0.0064 grams
Beaker Number	3C	
	Final Weight	114.4588 grams
	Tare Weight	114.4518 grams
	Difference	0.0070 grams
Filter Blank Number	2412	
	Final Weight	0.3380 grams
	Tare Weight	0.3380 grams
	Difference	0.0000 grams
Acetone Wash Down		
	Volume of Rinse	130 mL
	Residue in Rinse (calculated)	2.53197E-06 mg/mg
	Total Residue in Rinse	0.00026 grams
Total Particulate Weight		0.0131 grams
Water Collected		
	Final Impinger Water	285 mL
	Initial Impinger Water	200 mL
	Final Silica Weight	213.2 grams
	Silica Tare Weight	200.0 grams
Total Water Collected		98.0 grams

Analyst



Acetone Blank Calculations



METHOD 5—DETERMINATION OF PARTICULATE MATTER EMISSIONS FROM STATIONARY SOURCES

7.2 Sample Recovery. Acetone, reagent grade, ≤ 0.001 percent residue, in glass bottles, is required. Acetone from metal containers generally has a high residue blank and should not be used. Sometimes, suppliers transfer acetone to glass bottles from metal containers; thus, acetone blanks shall be run prior to field use and only acetone with low blank values (≤ 0.001 percent) shall be used. In no case shall a blank value of greater than 0.001 percent of the weight of acetone used be subtracted from the sample weight.

Blank Analyzed By: Nicholas Decker

X.

Constant Variables Used

Density of Acetone: 789.9 mg/ml
 Quantity of Blank: 200ml

 Beaker No. 1A
 Initial Weight of Beaker 109.3142
 Final Weight of Beaker 109.3146
 Residue from Blank **0.0004 g**
 Conversion G>MG 0.4 mg

Beaker final weight - Beaker initial weight
 .0004g
 Residue from Blank multiplied by 1,000.
 .4mg

Quantity of Blank 200 ml
 Density of Acetone 789.9 mg/ml
 Total mg of Acetone **157980 mg of acetone**

Quantity of Blank x Density of Acetone

Total mg of Acetone 157980 mg
 Acetone mg Residue 0.4 mg
 Residue expressed as % **0.000253197**

Total mg of Acetone / Acetone mg Residue
 .000253197 %
Residue MUST be <.001%



Attachment C - Process Data



Beatty Environmental Services, LLC

Emission Control Device and Process Data Form

Company: US Cremation Equipment

Installation: Crematory

Type of Installation: XCEL For: Evans Funeral Home

Type of Material Processed: Pig Remains

Type of Fuel Used: Propane

Type of Pollution Control System: Afterburner

General Condition of Control Equipment: New

Run No.	1	2	3
Start Time	10:10 <u>AM</u>	12:08 <u>PM</u>	14:05 <u>PM</u>
Stop Time	11:15 <u>AM</u>	13:12 <u>PM</u>	15:10 <u>PM</u>
Fuel GPH	Propane	Propane	Propane
Date	05-01-2017	05-01-2017	05-01-2017
Pressure Drop(in.H2O)	N/A	N/A	N/A
Process Rate LBS	179 lbs	165 lbs	190 lbs
Percent Recycle	N/A	N/A	N/A

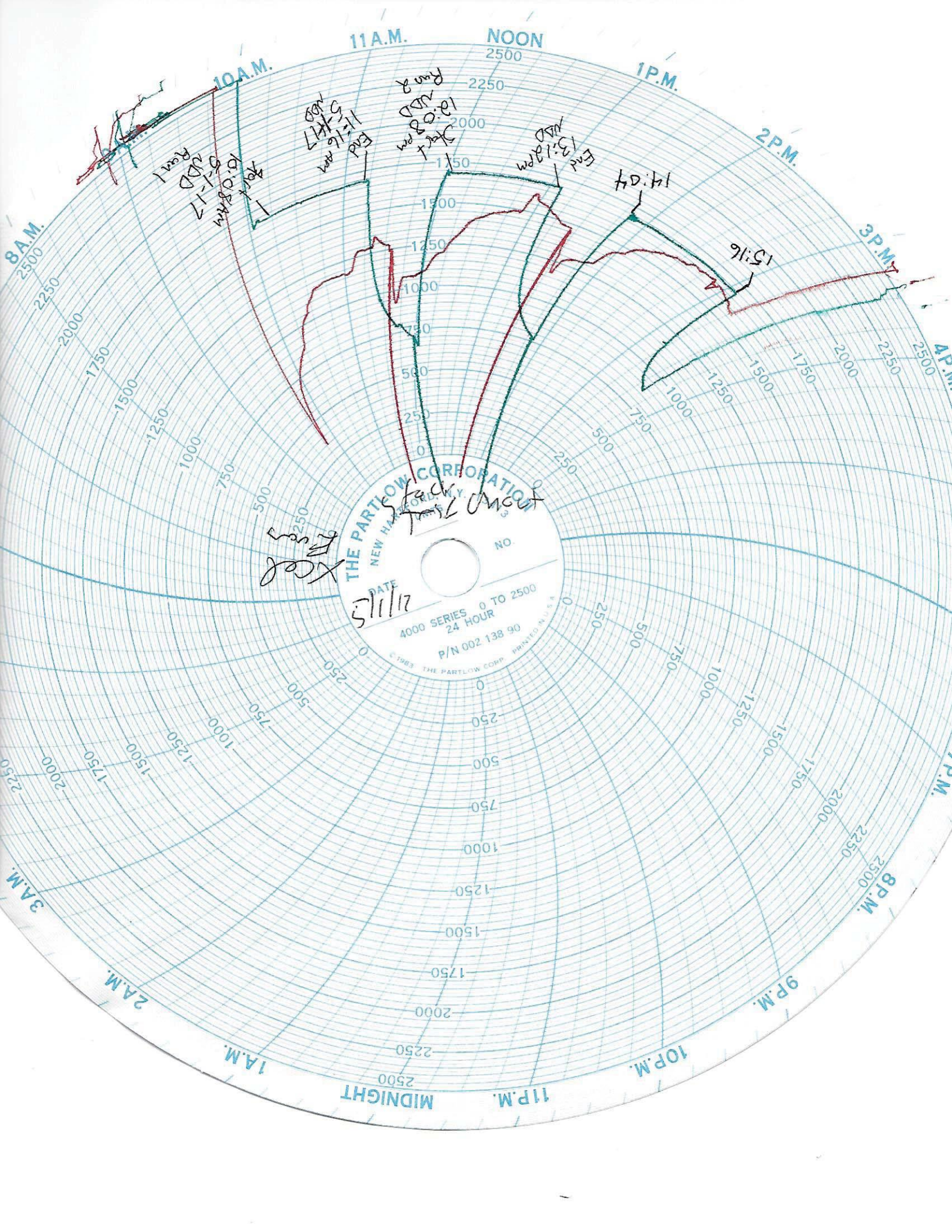
Signature: [Signature]

Title: President

Printed Name: Luis LLOREN

Report No. 17029-ST

*By signing above facility designee agrees that all information on this form is true and correct to the best of his/her knowledge.



Attachment D - Calculations for Run 1

CALCULATIONS FOR RUN 1
 US Cremation Equipment
 Model XCEL (Evans Eagle Vaults, Inc.)
 17029-ST

Page 1 of 2

STACK AREA

$$3.1416 \times (\text{Diameter} / 24)^2$$

$$3.1416 \times (20.00 / 24)^2$$

$$2.18 \text{ SQ.FT.}$$

STACK PRESSURE

$$\text{BAROMETRIC PRESSURE} + (\text{STATIC PRESSURE} / 13.6)$$

$$30.10 + (-0.06 / 13.6)$$

$$30.10 \text{ IN.HG}$$

METER PRESSURE

$$\text{BAROMETRIC PRESSURE} + (\text{ORIFICE PRESURE} / 13.6)$$

$$30.10 + (2.22 / 13.6)$$

$$30.26 \text{ IN.Hg}$$

SAMPLE VOLUME

$$17.64 \times (Y) \times \text{METER VOLUME} \times \text{METER PRESSURE} / (\text{METER TEMP.} + 460)$$

$$17.64 \times 1.0076 \times 52.219 \times 30.26 / (76.5 + 460)$$

$$52.353 \text{ STD.CU.FT.}$$

WATER VAPOR VOLUME

$$0.04715 \times \text{WATER COLLECTED}$$

$$0.04715 \times 193.0$$

$$9.10 \text{ STD.CU.FT.}$$

SAMPLE MOISTURE

$$100 \times \text{WATER VAPOR VOLUME} / (\text{WATER VAPOR VOLUME} + \text{SAMPLE VOLUME})$$

$$100 \times 9.10 / (9.10 + 52.353)$$

$$14.81 \%$$

SATURATION MOISTURE

$$100 \times (\text{VAPOR PRESSURE @ STACK TEMP.} / \text{STACK PRESSURE})$$

$$100 \times (79169.0296 / 30.10)$$

$$100.00 \%$$

STACK MOISTURE FRACTION

$$(\text{THE LESSER OF SAMPLE MOISTURE OR SATURATION MOISTURE}) / 100$$

$$0.148$$

DRY MOLECULAR WEIGHT OF STACK GAS

$$(0.28 \times (100 - \%N_2)) + (0.44 \times \%CO_2) + (0.32 \times \%O_2)$$

$$(0.28 \times (100 - (2.50 + 14.50))) + (0.44 \times 2.50) + (0.32 \times 14.50)$$

$$28.98$$

CALCULATIONS FOR RUN 1
US Cremation Equipment
Model XCEL (Evans Eagle Vaults, Inc.)
17029-ST

Page 2 of 2

MOLECULAR WEIGHT OF STACK GAS

$$\text{MOLECULAR WEIGHT} \times (1 - \text{MOISTURE}) + (18 \times \text{MOISTURE})$$

$$28.98 \times (1 - 0.148) + (18 \times 0.148)$$

$$27.35$$

STACK VELOCITY

$$85.49 \times \text{CP} \times 60 \times \text{SQ.}(\text{P}) \times \text{SQ.}(\text{STACK TEMP} + 460) / \text{SQ.}(\text{STACK PRESSURE} \times \text{MOLECULAR WT.})$$

$$85.49 \times 0.840 \times 60 \times 0.232 \times \text{SQ.}(1092.1 + 460) / \text{SQR}(30.10 \times 27.354)$$

$$1372 \text{ FPM}$$

VOLUMETRIC FLOW RATE (ACFM)

$$\text{STACK AREA} \times \text{STACK VELOCITY}$$

$$2.18 \times 1372$$

$$2993 \text{ ACFM}$$

VOLUMETRIC FLOW RATE (SCFM) DRY

$$17.64 \times (\text{ACFM}) \times \text{STACK PRESSURE} \times (1 - \text{MOISTURE}) / (\text{STACK TEMP.} + 460)$$

$$17.64 \times 2993 \times 30.10 \times (1 - 0.148) / (1092.1 + 460)$$

$$872 \text{ SCFM (DRY)}$$

CONCENTRATION (gr/dscf)

$$\text{Total Particulate Weight} \times 15.43 / \text{Sample Volume}$$

$$0.0093 \times 15.43 / 52.35$$

$$0.0027$$

CONCENTRATION@7% O2 (gr/dscf)

$$\text{Concentration} \times 13.9 / (20.9 - \%O_2)$$

$$0.0027 \times 13.9 / (20.9 - 14.500)$$

$$0.0060$$

MASS EMISSION RATE (LBS./HR.)

$$\text{CONCENTRATION} \times (\text{SCFM- DRY}) \times 60 / 7000$$

$$0.0027 \times 872 \times 60 / 7000$$

$$0.02 \text{ LBS/HR}$$

PERCENT ISOKINETIC

$$.0945 \times (\text{STACK TEMP.} + 460) \times \text{SAMPLE VOLUME} \times 60$$

$$. (\text{STACK PRES.} \times \text{VELOCITY} \times \text{NOZZLE AREA} \times \text{TEST TIME} \times (1 - \text{MOISTURE}))$$

$$0.0945 \times (1092.08 + 460) \times 52.35 \times 60$$

$$30.10 \times 1372 \times 0.00213 \times 60.00 \times (1 - 0.148)$$

$$102.48 \%$$

RETENTION TIME CALCULATION

CORRECTION FOR QUENCHED AIR AT OUTLET

PLANT: US Cremation Equipment (Run 1)
SOURCE: XCEL
LOCATION: 4442 Holden Road Lakeland, Florida
DATE: 5/1/2017
STACK PRESSURE: 30.1
CHARGE RATE: 179 LBS

Stack Temperature °F	1092.1
Afterburner Temperature °F	1650
Ambient Temperature	78
Stack Flow Rate (scfm dry)	872
Secondary Chamber Volume (cu.ft.)	101

Secondary Chamber Percent Flow	64.51%
Secondary Chamber Flow (scfm dry)	562.5
Secondary Chamber Flow @ 1800°F	2407.8
Secondary Chamber Flow @ 1600°F	2194.7
Secondary Chamber Volume (cu.ft.)	101
Retention Time @ 1800°F	2.52
Retention Time @ 1600°F	2.76

Secondary Chamber Percent Flow =
$$\frac{\text{Stack Flow Rate} \times (\text{Stack Temperature} - \text{Ambient Temperature})}{(\text{Afterburner temperature} - \text{Ambient Temperature})}$$

Secondary Chamber Flow (scfm dry) = Stack Flow Rate (scfm dry) X Secondary Chamber Percent Flow

Secondary Chamber Flow @ 1800°F = Secondary Chamber Flow (scfm dry) X (1800+460) / 528

Secondary Chamber Flow @ 1600°F = Secondary Chamber Flow (scfm dry) X (1600+460) / 528

Retention Time @ 1800°F =
$$\frac{\text{Secondary Chamber Volume (cu.ft.)} \times 60}{\text{Secondary Chamber Flow @ 1800°F}}$$

Retention Time @ 1600°F =
$$\frac{\text{Secondary Chamber Volume (cu.ft.)} \times 60}{\text{Secondary Chamber Flow @ 1600°F}}$$

Attachment E - Calibration Data



LIQUID TECHNOLOGY CORPORATION
"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis

- Pure Gas -

<u>Customer</u>	<u>Coastal Air Consulting (Deland, FL)</u>
<u>Date</u>	<u>November 23, 2016</u>
<u>Delivery Receipt</u>	<u>DR-64272</u>
<u>Product:</u>	<u>Nitrogen, CEM Grade</u>
<u>Lot Number:</u>	<u>LTL076-N2</u>

Mixture Specifications

<u>Cylinder Number</u>	<u>EB-0015932</u>
------------------------	-------------------

<u>Components</u>	<u>Requested</u>	<u>Actual</u>
Sulfur Dioxide	< 0.1 ppm	< 0.1 ppm
NOx	< 0.1 ppm	< 0.1 ppm
Carbon Monoxide	< 0.5 ppm	< 0.5 ppm
Carbon Dioxide	< 1.0 ppm	< 1.0 ppm
THC	< 0.1 ppm	< 0.1 ppm
Moisture	< 2.0 ppm	< 2.0 ppm
Oxygen	< 0.50 ppm	< 0.50 ppm
Nitrogen	99.9995%	99.9995%

Cylinder Data

Cylinder Valve:	CGA 580
Cylinder Volume:	140 Cubic Feet
Cylinder Pressure:	2000 psig, 70F
Expiration Date:	November 24, 2021

Certified by:

Cole Dylewski

"UNMATCHED EXCELLENCE"



LIQUID TECHNOLOGY CORPORATION

"INDUSTRY" LEADER IN SPECIALTY GASES"

Certificate of Analysis **- EPA PROTOCOL GAS -**

Customer Coastal Air Consulting (Deland, FL)
Date May 31, 2016
Delivery Receipt DR-61745
Gas Standard 16.0 - 20.0 ppm NO, 16.0 - 20.0 ppm CO/Nitrogen
Final Analysis Date May 24, 2016
Expiration Date May 25, 2020

Analytical Data:

EPA Protocol, Section No. 2.2, Procedure G-1 and/or G-2.

DO NOT USE BELOW 100 psig

Reported Concentrations

Nitric Oxide: 17.2 ppm +/- 0.1 ppm (G-1)
Carbon Monoxide: 18.2 ppm +/- 0.1 ppm (G-1)

Nitrogen: Balance

Total NOx: 17.4 ppm

**** NOx for Reference Use Only ****

	<u>Reference Standards</u>		<u>GMIS Traceability</u>	
SRM/GMIS:	GMIS	GMIS	SRM-1683b	SRM-2635a
Cylinder Number:	CC-231360	EB-0056065	CAL-018172	CAL-016851
Concentration:	24.24 ppm NO	25.23 ppm CO	48.79 ppm NO	24.79 ppm CO
Expanded Uncertainty:	(+/- 0.08 ppm)	(+/- 0.23 ppm)	(+/- 0.34 ppm)	(+/- 0.15 ppm)
Expiration Date:	09/22/22	04/30/22	03/25/19	09/12/14
NIST Sample Number:	NA	NA	45-V-08	58-D-30

Certification Instrumentation

Component:	Nitric Oxide	Carbon Monoxide
Make/Model:	NEXUS 6700	NEXUS 6700
Serial Number:	APW1200289	APW1200289
Principal of Measurement:	FTIR	FTIR
Last Calibration:	April 29, 2016	May 06, 2016

Cylinder Data

Cylinder Number:	CC-505366	Cylinder Volume:	133 Cubic Feet
Cylinder Outlet:	CGA 660	Cylinder Pressure:	1900 psig, 70F

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

Cole Dylewski

Cole Dylewski

PGVP Vendor ID: E12016

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LIQUID TECHNOLOGY CORPORATION

"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis - EPA PROTOCOL GAS -

Customer Coastal Air Consulting (Deland, FL)
Date May 31, 2016
Delivery Receipt DR-61745
Gas Standard 47.0 ppm NO, 47.0 ppm SO₂, 47.0 ppm CO/Nitrogen
Final Analysis Date May 24, 2016
Expiration Date May 25, 2019 ✓

Analytical Data:

DO NOT USE BELOW 100 psig

EPA Protocol, Section No. 2.2, Procedure G-1 and/or G-2.

Reported Concentrations

Nitric Oxide: 48.4 ppm +/- 0.2 ppm (G-1)
Carbon Monoxide: 48.2 ppm +/- 0.4 ppm (G-1)
Sulfur Dioxide: 49.4 ppm +/- 0.3 ppm (G-1)

Nitrogen: Balance

Total NOx: 48.5 ppm

**** NOx for Reference Use Only ****

	<u>Reference Standards</u>			<u>GMIS Traceability</u>		
SRM/GMIS:	GMIS	GMIS	GMIS	SRM-1683b	SRM-2635a	SRM-1693a
Cylinder Number:	CC-231360	EB-0056065	EB-0014689	CAL-018172	CAL-016851	CAL-015255
Concentration:	24.24 ppm NO	25.23 ppm CO	50.97 ppm SO ₂	48.79 ppm NO	24.79 ppm CO	49.66 ppm SO ₂
Expanded Uncertainty:	(+/- 0.08 ppm)	(+/- 0.23 ppm)	(+/- 0.20 ppm)	(+/- 0.34 ppm)	(+/- 0.15 ppm)	(+/- 0.51 ppm)
Expiration Date:	09/22/22	04/30/22	03/07/20	03/25/19	09/12/14	06/01/16
NIST Sample Number:	NA	NA	NA	45-V-08	58-D-30	96-K-026

Certification Instrumentation

Component:	Nitric Oxide	Carbon Monoxide	Sulfur Dioxide
Make/Model:	NEXUS 6700	NEXUS 6700	NEXUS 6700
Serial Number:	APW1200289	APW1200289	APW1200289
Principal of Measurement:	FTIR	FTIR	FTIR
Last Calibration:	April 29, 2016	May 05, 2016	May 13, 2016

Cylinder Data

Cylinder Number:	EB-0039976	Cylinder Volume:	137 Cubic Feet
Cylinder Outlet:	CGA 660	Cylinder Pressure:	1950 psig, 70F

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

Cole Dylewski

Cole Dylewski

PGVP Vendor ID: E12016

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"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis **- EPA PROTOCOL GAS -**

Customer Coastal Air Consulting (Deland, FL)
Date May 31, 2016
Delivery Receipt DR-61745
Gas Standard 90.0 - 99.0 ppm NO, 90.0 - 99.0 ppm SO₂, 90.0 - 99.0 ppm CO/Nitrogen
Final Analysis Date May 24, 2016
Expiration Date May 25, 2024

Analytical Data:
EPA Protocol, Section No. 2.2, Procedure G-1 and/or G-2.

DO NOT USE BELOW 100 psig

Reported Concentrations
Nitric Oxide: 95.8 ppm +/- 0.3 ppm (G-1)
Carbon Monoxide: 96.9 ppm +/- 0.9 ppm (G-1)
Sulfur Dioxide: 96.7 ppm +/- 0.6 ppm (G-1)
Nitrogen: Balance
Total NOx: 95.9 ppm

**** NOx for Reference Use Only ****

	<u>Reference Standards</u>			<u>GMIS Traceability</u>		
SRM/GMIS:	GMIS	GMIS	GMIS	SRM-1683b	SRM-1678c	SRM-1693a
Cylinder Number:	ND-45700	EB-0017129	EB-0014689	CAL-018172	CAL-016939	CAL-015255
Concentration:	49.256 ppm NO	50.81 ppm CO	50.97 ppm SO ₂	48.79 ppm NO	49.07 ppm CO	49.66 ppm SO ₂
Expanded Uncertainty:	(+/- 0. ppm)	(+/- 0.42 ppm)	(+/- 0.20 ppm)	(+/- 0.34 ppm)	(+/- 0.19 ppm)	(+/- 0.51 ppm)
Expiration Date:	08/23/20	04/30/22	06/16/18	03/25/19	08/14/15	06/01/16
NIST Sample Number:	NA	NA	NA	45-V-08	4-K-33	96-K-026

Certification Instrumentation

Component:	Nitric Oxide	Carbon Monoxide	Sulfur Dioxide
Make/Model:	NEXUS 6700	NEXUS 6700	NEXUS 6700
Serial Number:	APW1200289	APW1200289	APW1200289
Principal of Measurement:	FTIR	FTIR	FTIR
Last Calibration:	April 29, 2016	May 06, 2016	May 13, 2016

Cylinder Data

Cylinder Number:	EB-0051481	Cylinder Volume:	137 Cubic Feet
Cylinder Outlet:	CGA 660	Cylinder Pressure:	1950 psig, 70F

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

Cole Dylewski

Cole Dylewski

PGVP Vendor ID: E12016

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"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis - EPA PROTOCOL GAS -

<u>Customer</u>	Coastal Air Consulting (Deland, FL)
<u>Date</u>	July 27, 2016
<u>Delivery Receipt</u>	DR-62606
<u>Gas Standard</u>	8.50% CO ₂ , 12.00% Oxygen/Nitrogen
<u>Final Analysis Date</u>	July 11, 2016
<u>Expiration Date</u>	July 12, 2024 ✓

Analytical Data:

EPA Protocol, Section No. 2.2, Procedure G-1 and/or G-2.

DO NOT USE BELOW 100 psig

Reported Concentrations
Carbon Dioxide: 8.59% +/- 0.08% (G-1)
Oxygen: 11.95 % +/- 0.06% (G-1)
Nitrogen: Balance

	<u>Reference Standards:</u>		<u>GMIS Traceability</u>	
SRM/GMIS:	GMIS	GMIS	SRM-1674b	SRM-2658a
Cylinder Number:	CC-166598	EB-0018701	FF-10623	CAL-016950
Concentration:	6.898% CO ₂	10.08% Oxygen	6.944% CO ₂	9.918% Oxygen
Expanded Uncertainty:	(+/- 0.027%)	(+/- 0.15%)	(+/- 0.013%)	(+/- 0.022%)
Expiration Date:	04/02/22	04/17/22	06/17/19	06/01/17
NIST Sample Number:	NA	NA	7-H-08	72-D-43

Certification Instrumentation

Component:	Carbon Dioxide	Oxygen
Make/Model:	Nicolet 6700	Siemens Oxymat
Serial Number:	APW1100563	64 - 402
Principal of Measurement:	FTIR	Paramagnetic
Last Calibration:	June 16, 2016	June 20, 2016

Cylinder Data

Cylinder Number:	CC-251892	Cylinder Volume:	131 Cubic Feet
Cylinder Outlet:	CGA 590	Cylinder Pressure:	1875 psig, 70F

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

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"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis **- EPA PROTOCOL GAS -**

<u>Customer</u>	<u>Coastal Air Consulting (Deland, FL)</u>
<u>Date</u>	<u>October 20, 2014</u>
<u>Delivery Receipt</u>	<u>DR-53649</u>
<u>Gas Standard</u>	<u>17.00% CO₂, 22.50% Oxygen/Nitrogen - EPA PROTOCOL</u>
<u>Final Analysis Date</u>	<u>October 17, 2014</u>
<u>Expiration Date</u>	<u>October 18, 2022</u> ✓
<u>Component</u>	<u>Carbon Dioxide, Oxygen</u>
<u>Balance Gas</u>	<u>Nitrogen</u>

Analytical Data:
EPA Protocol, Section No. 2.2, Procedure G-1.

DO NOT USE BELOW 100 psig

Reported Concentrations
Carbon Dioxide: 16.74% +/- 0.15%
Oxygen: 22.55% +/- 0.05%
Nitrogen: Balance

Reference Standards:

SRM/GMIS:	GMIS	GMIS	<u>GMIS Traceability</u>
Cylinder Number:	CC-252091	CC-159090	SRM-1674b / SRM-2659a
Concentration:	15.816% CO ₂ (+/- 0.003%)	20.81% Oxygen (+/- 0.15%)	FF-10623 / CAL-015481
Expiration Date:	02/04/21	04/17/22	6.944% CO ₂ (+/- 0.013%) / 20.720% Oxygen (+/- 0.043%)
NIST Sample Number:	NA	NA	06/17/19 - 01/01/16
			7-H-08 / 71-D-44

Certification Instrumentation

Component:	Carbon Dioxide	Oxygen
Make/Model:	Nicolet 6700	Siemens Oxymat
Serial Number:	APW1200289	64 - 402
Principal of Measurement:	FTIR	Paramagnetic
Last Calibration:	October 05, 2014	October 15, 2014

Cylinder Data

Cylinder Serial Number:	CC-233247	Cylinder Outlet:	CGA 590
Cylinder Volume:	136 Cubic Feet	Cylinder Pressure:	1925 psig, 70°F

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

Cole Dylewski

PGVP Vendor ID: E12014

"UNMATCHED EXCELLENCE"



LIQUID TECHNOLOGY CORPORATION

"INDUSTRY LEADER IN SPECIALTY GASES"

Certificate of Analysis **- EPA PROTOCOL GAS -**

<u>Customer</u>	<u>Coastal Air Consulting (Deland, FL)</u>
<u>Date</u>	<u>April 08, 2016</u>
<u>Delivery Receipt</u>	<u>DR-61102</u>
<u>Gas Standard</u>	<u>9.00 ppm Nitric Oxide, 9.00 ppm Carbon Monoxide/Nitrogen</u>
<u>Final Analysis Date</u>	<u>April 08, 2016</u>
<u>Expiration Date</u>	<u>April 09, 2019</u>

DO NOT USE BELOW 100 psig

Analytical Data:

EPA Protocol, Section No. 2.2, Procedure G-1.

Reported Concentrations

Nitric Oxide: 8.46 ppm +/- 0.08 ppm (G-1)

Carbon Monoxide: 9.07 ppm +/- 0.09 ppm (G-1)

Nitrogen: Balance

Total NOx: 8.82 ppm

**** Total NOx for Reference Use Only ****

Reference Standards

SRM/GMIS:	GMIS	GMIS
Cylinder Number:	ND-57318	CC-115999
Concentration:	9.372 ppm NO (+/- 0.08 ppm)	10.312 ppm CO (+/- 0.058 ppm)
Expiration Date:	04/26/23	03/07/20

Certification Instrumentation

Component:	Nitric Oxide	Carbon Monoxide
Make/Model:	Nicolet 6700	Nicolet 6700
Serial Number:	APW1100563	APW1100563
Principal of Measurement:	FTIR	FTIR
Last Calibration:	March 31, 2016	March 10, 2016

Cylinder Data

Cylinder Number:	CC-508364	Cylinder Volume:	136 Cubic Feet
Cylinder Outlet:	CGA 660	Cylinder Pressure:	1950 psig, 70°F
Expiration Date:	April 09, 2019		

Analytical Uncertainty and NIST Traceability are in compliance with EPA-600/R-12/531.

Certified by:

Cole Dylewski

Cole Dylewski

PGVP Vendor ID: E12016

GMIS Traceability

SRM Number:	<u>Nitric Oxide</u> SRM-2628a	<u>Carbon Monoxide</u> SRM-1677c
Cylinder Number:	CAL-016517	FF-2304
Cylinder Concentration:	10.07 ppm NO (+/- 0.10 ppm)	9.00 ppm CO (+/- 0.10 ppm)

ANNUAL METER CALIBRATION				METER NO. 002047		ORIFICE SET NO. JC40-73												
BAROMETRIC PRESSURE				DATE 8/30/2016		Y= 1.0076		MAX % VARIATION		1.7457%		PASS						
				29.91		^Ha= 1.6542		MAX % VARIATION		2.8768%		PASS						
CRITICAL ORIFICE DATA																		
ORIFICE SERIAL NO.	ORIFICE K' FACTOR	ACTUAL VACUUM	^H (IN H2O)	TIME (MIN.)	AMBIENT TEMP. INITIAL	AMBIENT TEMP. FINAL	METER TEMP. INITIAL	METER TEMP. FINAL	METER READING INITIAL	METER READING FINAL	VM (CU.FT.)	VM CORRECTED	Vcr STD	Vcr NOMINAL	Y	VARIATION	^H (IN H2O)	VARIATION
40	0.2435	23.5	0.29	10	72	73	77	77	0.000	3.205	3.2050	3.1512	3.1561	3.1854	1.0016	-0.0017	1.6096	0.0015
40	0.2435	23.5	0.29	10	73	72	77	77	3.205	6.408	3.2030	3.1493	3.1561	3.1854	1.0022	-0.0010	1.6096	0.0015
40	0.2435	23.5	0.29	10	72	71	77	78	6.408	9.605	3.1970	3.1404	3.1591	3.1824	1.0059	0.0027	1.6051	-0.0030
AVERAGE															1.0032	0.0032	1.6081	0.0279
48	0.3557	22.0	0.62	10	71	72	78	78	10.100	14.728	4.6280	4.5456	4.6148	4.6488	1.0152	-0.0022	1.6066	0.0000
48	0.3557	22.0	0.62	10	72	73	78	79	14.728	19.346	4.6180	4.5315	4.6104	4.6531	1.0174	0.0000	1.6082	0.0015
48	0.3557	22.0	0.62	10	73	72	79	80	19.346	23.962	4.6160	4.5212	4.6104	4.6531	1.0197	0.0023	1.6052	-0.0015
AVERAGE															1.0175	0.0175	1.6067	0.0288
55	0.4616	20.5	1.10	10	71	72	79	80	24.200	30.279	6.0790	5.9611	5.9887	6.0328	1.0046	-0.0025	1.6879	0.0031
55	0.4616	20.5	1.10	10	71	71	80	80	30.279	36.351	6.0720	5.9488	5.9915	6.0300	1.0072	0.0001	1.6847	0.0000
55	0.4616	20.5	1.10	10	71	71	81	81	36.351	42.420	6.0690	5.9348	5.9915	6.0300	1.0095	0.0024	1.6816	-0.0031
AVERAGE															1.0071	0.0071	1.6848	0.0184
63	0.5916	19.0	1.80	10	73	74	80	81	42.600	50.434	7.8340	7.6810	7.6609	7.7463	0.9974	-0.0056	1.6847	-0.0021
63	0.5916	19.0	1.80	10	74	75	80	81	50.434	58.180	7.7460	7.5948	7.6537	7.7536	1.0078	0.0048	1.6879	0.0010
63	0.5916	19.0	1.80	10	75	75	81	81	58.180	65.960	7.7800	7.6211	7.6501	7.7572	1.0038	0.0008	1.6879	0.0011
AVERAGE															1.0030	0.0030	1.6868	0.0197
73	0.8234	16.0	3.50	10	75	75	82	84	66.200	77.000	10.8000	10.5842	10.6476	10.7967	1.0060	-0.0014	1.6880	0.0031
73	0.8234	16.0	3.50	10	75	75	85	85	77.000	87.810	10.8100	10.5552	10.6476	10.7967	1.0088	0.0014	1.6818	-0.0031
73	0.8234	16.0	3.50	10	75	76	84	85	87.810	98.620	10.8100	10.5649	10.6426	10.8017	1.0074	0.0000	1.6849	0.0000
AVERAGE															1.0074	0.0074	1.6849	0.0185
SEMI ANNUAL CALIBRATION																		
ORIFICE SERIAL NO.	ORIFICE K' FACTOR	ACTUAL VACUUM	^H (IN H2O)	TIME (MIN.)	AMBIENT TEMP.		BAROMETRIC PRESSURE		METER TEMP.		METER READING		Vcr STD	Vcr NOMINAL	Y	VARIATION	^H (IN H2O)	VARIATION
55	0.4616	20.5	1.1	10	68	66	69	71	565.000	571.065	6.0650	6.0338	5.9941	6.0072	0.9934	-0.0137	1.7093	0.0005
55	0.4616	20.5	1.1	10	66	69	71	72	571.065	577.132	6.0670	6.0188	5.9912	6.0101	0.9954	-0.0117	1.7061	-0.0027
55	0.4616	20.5	1.1	10	69	70	72	72	577.132	583.196	6.0640	6.0101	5.9799	6.0214	0.9950	-0.0121	1.7110	0.0022
AVERAGE or Max															0.9946	0.20%	1.7088	0.49%
METER COMPARISON CHECK (Yqp)																		
				Yqp = (O / Vm) X sqrt(319 x Tm X 29 / (^Ha x (Pb + (Havg / 13.6) x Md)) X sqr ^H avg														
				Run 1		Run 2		Run 3		Average								
				Yqp = 1.0012		1.0010		0.9885		0.9969								
THERMOCOUPLE CALIBRATION																		
DATE 8/30/2016																		

Beatty Environmental Stack Test Thermocouple Calibrations

Calibration Date : 5/1/2017

Calibration Device: ASTM Thermometer

Calibrated By: Nicholas Decker, Beatty Environmental Services, LLC

Device	Ambient Air
ASTM Thermometer	85
Dry Gas Meter Thermocouple	85
Filter Thermocouple	85
Filter Heater Thermocouple	86
Impinger Outlet Thermocouple	84
Stack Temp Thermocouple (3ft. 8in. Heated Probe)	85

Analyst:

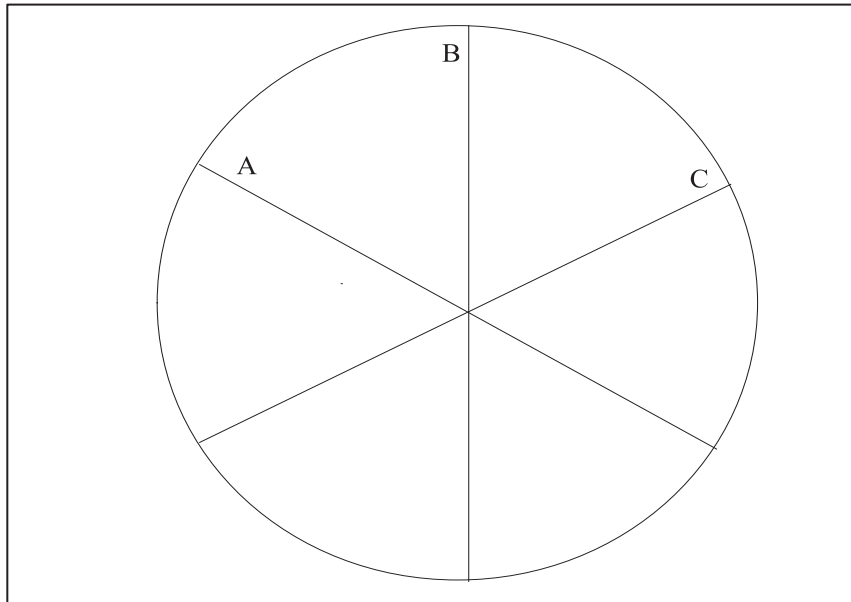


10.5 Temperature Sensors. Use the procedure in Section 10.3 of Method 2 to calibrate in-stack temperature sensors. Dial thermometers, such as are used for the DGM and condenser outlet, shall be calibrated against mercury-in-glass thermometers. An alternative mercury-free NIST traceable thermometer may be used if the thermometer is, at a minimum, equivalent in terms of performance or suitably effective for the specific temperature measurement application. As an alternative, the following single-point calibration procedure may be used. After each test run series, check the accuracy (and, hence, the calibration) of each thermocouple system at ambient temperature, or any other temperature, within the range specified by the manufacturer, using a reference thermometer (either ASTM reference thermometer or a thermometer that has been calibrated against an ASTM reference thermometer). The temperatures of the thermocouple and reference thermometers shall agree to within $\pm 2^{\circ}\text{F}$.

Nozzle Calibration

Nozzle ID 5/1/2017

A = 0.625
B = 0.625
C = 0.625
Average 0.6250



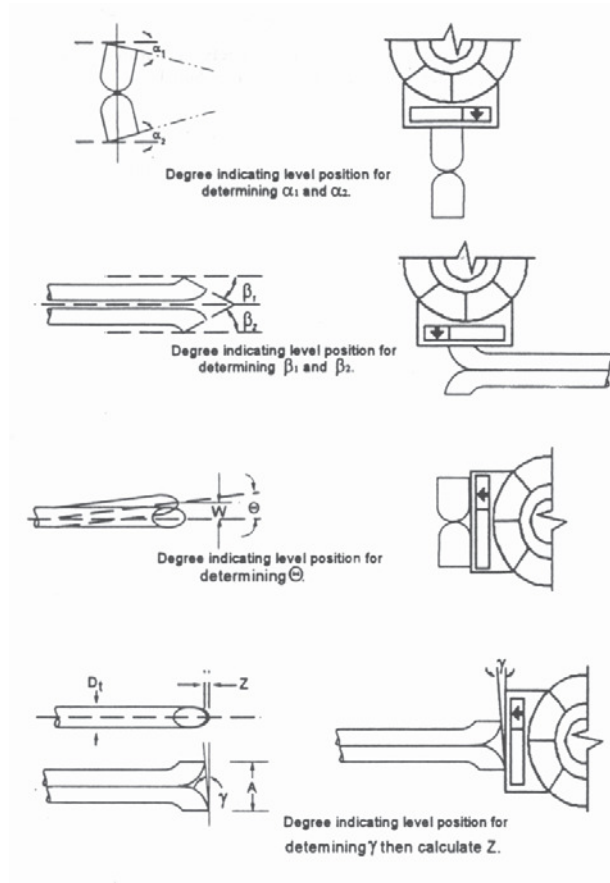
Calibration Date 5/1/2017

Calibrated by

A handwritten signature in black ink, appearing to be 'JD' or similar, written over a horizontal line.

PITOT CALIBRATION

(Type S Pitot Tube Inspection)



Level and Perpendicular?	Yes
Obstruction?	No
Damaged?	No
α_1 ($-10^\circ \leq \alpha_1 \leq +10^\circ$)	1
α_2 ($-10^\circ \leq \alpha_2 \leq +10^\circ$)	2
β_1 ($-5^\circ \leq \beta_1 \leq +5^\circ$)	2
β_2 ($-5^\circ \leq \beta_2 \leq +5^\circ$)	1
Y	-1
θ	1
$z = A \tan \gamma$ ($\leq 0.125^\circ$)	-0.017
$w = A \tan \theta$ ($\leq 0.03125^\circ$)	0.017
D_t ($3/16'' \leq D_t \leq +3/8''$)	0.375
A	0.964
$A/2 D_t$ ($1.05 \leq P_A / D_t \leq 1.51$)	1.285

Certification

I hereby certify that type S pitot tube ID# P-5AC meets or exceeds all specifications, criteria and applicable design features, and is hereby assigned a pitot tube calibration factor of 0.84.

Certified by:

Date

08/30/2016

Attachment F - Project Participants

Project Participants

Beatty Environmental Services, LLC

Daniel R. Beatty
Project Director

Nick Decker
Field Technician

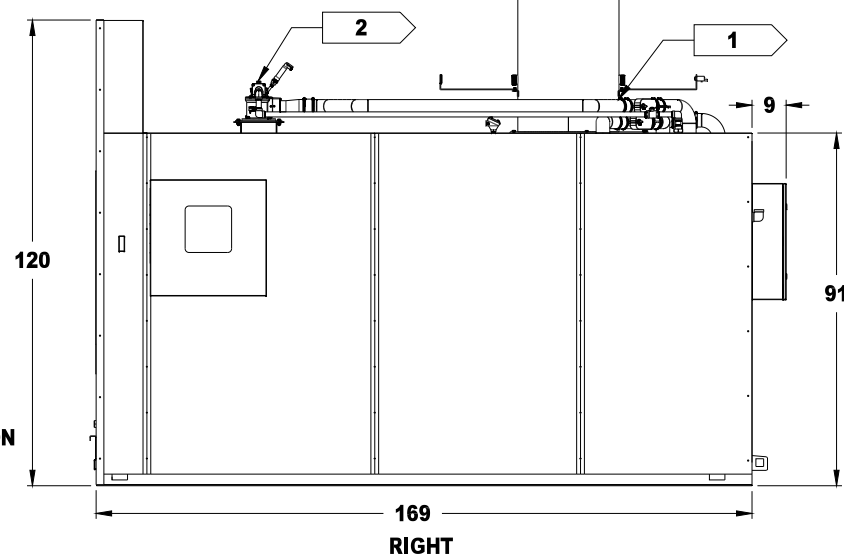
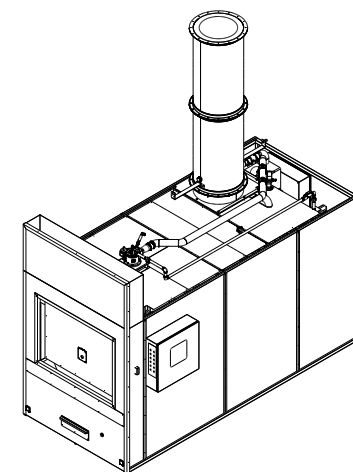
Zachary Beatty
Field/Lab Manager

Coastal Air Consulting

Steve Webb
EPA Method 10 (CO) & Method 9 VE

US Cremation Equipment

Luis Llorens
President



- 1. HEIGHT FROM FLOOR TO DRAFT INDUCER = 98"**
- 2. HEIGHT FROM FLOOR TO TOP OF BURNER = 105"**
- 3. GAS INLET**
- 4. SCREEN MAY BE INSTALLED ON L OR R SIDE**
- 5. SECONDARY THERMOCOUPLER MAY BE INSTALLED ON FRONT**
- 6. DRAFT INDUCER & PRIMARY GAS TRAIN MAY BE STRIPPED FOR SMALLER ENTRYWAYS (ADDL CHARGE).**

[illegible]

NOTES:

ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING

TOLERANCES UNLESS OTHERWISE SPECIFIED

XXX ± .005	FRAC ± 1/32
XX ± .010	CHAM 1/64 X 45°
X ± .015	ANGLE ± 1/2°

RAD. 1/16 R FINISH: 125 RMS

EDGE BREAK .005- .015 EXCEPT WHERE NOTED

PROPRIETY NOTICE
US CREMATION EQUIPMENT
claims proprietary rights in the material disclosed hereon. This drawing is issued for engineering information only. It may not be reproduced, nor the information hereon be used for manufacturing purposes without written permission from US CREMATION EQUIPMENT

U.S. CREMATION EQUIPMENT	
528 Northlake Blvd. #1040 Altamonte Springs, Fl. 32701	
DRAWN BY: S. LAFLEUR	10.5.18
CHECKED BY:	
APPROVED BY:	
PART NO. USCE-CXL-ELEV ASSY	
DWG #	

SHEET: 1 OF 1

Emission Calculations Based on AP-42 Table 2.1-12

Us Cremation Equipment Model "CLASSIC -XCEL" Animal Crematory

Pounds Incinerated Per Hour (Average)	Hours Per Year	SO2 lb/ton	SO2 lb/hr	SO2 TPY	Nox lb/ton	Nox lb/hr	Nox TPY	TOC lb/ton	TOC lb/hr	TOC TPY
200	8760	2.5	0.25	1.1	3	0.3	1.314	3	0.3	1.314

CO=100 PPM @ 7% O2 based on manufacturers warranty

PM = 0.10 gr/dscf corrected to 12%CO2

CO is calculated as follows:

200 lb/hr x 1E+01 lb/ton x 1 ton/2000 lbs = 1 lbs/hr CO
 1 lb/hr CO x 8760 hrs/yr x 1 ton/2000 lbs = 4.38 TPY CO
 Actual Emissions are from 3.17 to 10 PPM's at 7% O2

PM is calculated as follows:

200 lb/hr x 7E+00 lb/ton x 1 ton/2000 lbs = 0.7 lbs/hr PM
 0.7 lb/hr PM x 8760 hrs/yr x 1 ton/2000 lbs = 3.06 TPY PM



July, 31, 2025

Amanda Moore
Killeen Animal Services
3118 Commerce Drive
Killeen, TX 76543

**Re: Standard Permit Application for a US Cremation Equipment “Classic” XCEL aka Sierra
1200 Crematory Animal Crematory to be located at 3118 Commerce Drive
Killeen, TX 76543**

Dear Ms. Moore:

We have completed the updated Standard Permit application for your new U.S. Cremation Equipment Animal crematory at your facility. The following attachments were included.

Attachments

- Attachment 1 - Important Application Information and Notes
- Attachment 2 - US Cremation Equipment Model “Classic” XCEL Sierra 1200 CREMATORY Specifications, Process Flow Diagram and Engineering Drawings
- Attachment 3 - Site Location Map
- Attachment 4 - Emission Calculations Spreadsheet & Similar Source Stack Test

The application password and username will be submitted to you under a different cover so that you can sign the application and submit it.

Should you need additional information or assistance on this matter please call me at (321) 282-7357 or e-mail at AI@CFL.RR.COM.

Respectfully,
AI ENVIRONMENTAL CONSULTING SERVICES, INC.

A blue ink handwritten signature, appearing to read 'Luis Llorens', is written over a series of horizontal lines.

Luis Llorens
President/Project Manager

Application Information and Notes

Project Description: Application to obtain a Permit by Rule for Installation of one new US Cremation Equipment “Classic” XCEL aka Sierra 1200 Animal Crematory at the Killeen Animal Services facility, and is going to be located at 3118 Commerce Drive, Killeen, TX 76543. This source is located in Bell County. The facility is replacing its existing crematory, regulated under permit 84966, RN10516660.

Compliance History:

Stack Sampling Ports & Facilities: Stack testing of the crematory is not expected to be required based on similar source stack testing results.

“Classic” XCEL Crematory Emissions: CO and PM emissions estimates are based on the results of a similar source stack test. Additional criteria pollutant emission estimates are based on AP-42 Table 2.1-12, Uncontrolled Emission Factors for Refuse Combustors Other Than Municipal Waste.

Protection of Public Health and Welfare: Based on a similar source stack test and manufacturer supplied data, the emissions from the proposed facility will comply with the rules and regulations of the Commission, including protection of the health and physical property of the people.

Title 40 CFR Part 60: The source is not applicable to NSPS.

Title 40 CFR Part 61: The source is not applicable to NESHAP.

Title 40 CFR Part 63: The source is not applicable to MACT.

Performance Demonstration: Stack testing of the crematory is not expected to be required.

In accordance with TCEQ Rule 111.121(1), the PM emission concentration should be less than 0.08 gr/dscf, corrected to 7% O₂ (total PM 0.16 gr/dscf), based on the similar source stack test included in Appendix IV. In accordance with TCEQ Rule 111.121(3), the CO emission concentration will not exceed 100 ppm by volume (dry basis), corrected to 7% O₂, based on the similar source stack test included.

Nonattainment review: Emission levels are not of the magnitude to trigger a nonattainment review.

Prevention of Significant Deterioration (PSD) review: Due to the emission levels PSD is not applicable.

Air Dispersion Modeling: Based on the emission levels and nature of the surrounding environment, dispersion modeling is not warranted.

Hazardous Air Pollutants (HAPs): Emission of HAPs from the cremation of non-research animals is insignificant.

It is the intent of Killeen Animal Services to comply with applicable portions of 30 TAC Chapter 116 "Control of Air Pollution by Permits for New Construction or Modifications". Additional information pertaining to compliance with 30 TAC Chapter 116 is provided below:

30 TAC Chapter 116.112 does not apply to this facility.

30 TAC Chapter 116.115 "General and Special Conditions"

It is the intent of TBD to comply with the applicable permit General Conditions and those Special Conditions, which have been reviewed by our air, permit engineer and have been deemed absolutely necessary by the TCEQ.

30 TAC Chapter 116.116 "Changes to Facilities"

It is the intent of Killeen Animal Services and Cremation Services to comply with the applicable portions of 30 TAC Chapter 116.116 should changes to the facility are proposed.

30 TAC Chapter 116.117 "Documentation and Notification of Changes to Qualified Facilities"

It is the intent of Killeen Animal Services and Cremation Services to comply with the applicable portions of 30 TAC Chapter 116.117 should proposed changes fall within the definition of Qualified Facilities in 30 TAC Chapter 116.116(e).

30 TAC Chapter 116.118 "Pre-change Qualification"

Should facility conditions exist and facility changes are proposed which require the facility to obtain pre-change qualifications, it is the intent of Killeen Animal Services to comply with the applicable portions of 30 TAC Chapter 116.118.

It is the intent of Killeen Animal Services to comply with the applicable portions of 30 TAC Chapters 111, 112, 113, 115, 117, 118, and 122.

Chapter 111 Control of Air Pollution from Visible Emissions and Particulate Matter

Particulate emissions shall not exceed 0.18 gram per dry standard cubic meter (g/dscm) or 0.08 grains per dry standard cubic foot (gr/dscf), front-half of sampling train only, when corrected for 7.0% oxygen (O₂) in the stack gas according to the formula. Carbon monoxide (CO) emissions shall not exceed 100 parts per million by volume dry basis, when corrected to 7.0% O₂ in the stack gas. Oxygen content shall be maintained at greater than 4.0% by volume of the emissions of the incinerator, measured at the exit of the incinerator. Visible emissions shall not exceed opacity of 5.0% averaged over any six-minute period.

Based on the Source Emission Test Report the model "Classic" XCEL Crematory can maintain a Secondary Combustion Chamber temperature in excess of 1800 degrees Fahrenheit and 1.0 second residence time during actual conditions. Actual operating temperature shall be from 1400⁰F to 1500⁰F.

The source does not burn Hazardous Waste Fuels.

RULE §111.127 Monitoring and Record keeping Requirements

The "Classic" XCEL Crematory will have a Partlow MRC 5000 chart recorder or equivalent is going to record the secondary chamber temperature.

Chapter 112 Control of Air Pollution from Sulfur Compounds

Chapter 112 Control of Air Pollution from Sulfur Compounds is not applicable to this source.

Chapter 113 Standards of Performance for HAPs and for Designated Facilities

Chapter 113 Standards of Performance for HAPs and for Designated Facilities and pollutants is not applicable to this source. Animal crematories are not one of the designated sources under Subchapter D Designated Facilities and Pollutants.

Chapter 115 Control of Air Pollution from Volatile Organic Compounds

Chapter 115 Control of Air Pollution from Volatile Organic Compounds is not applicable to this source.

Chapter 117 Control of Air Pollution from Nitrogen Compounds

Chapter 117 Control of Air Pollution from Nitrogen Compounds is not applicable to this source. An animal crematory is not considered a water heater, small boiler, or process heater as they are defined in Subchapter D Small Combustion Sources.

Chapter 122 Federal Operating Permits

This source is not a Major Source of air pollution or a Synthetic Minor Source of air pollution. It is a minor source of air pollution, which may be applicable to TCEQ rules and regulations. Chapter 122 Federal Operating Permits is not applicable to this source as the source does not need to limit its potential to emit.

Texas Commission on Environmental Quality

Standard Permit New Registration

Site Information (Regulated Entity)

What is the name of the site to be authorized?	City of Killeen
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3118 COMMERCE DR
City	KILLEEN
State	TX
ZIP	76543
County	BELL
Latitude (N) (##.#####)	
Longitude (W) (-###.#####)	
Primary SIC Code	7261
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	City of Killeen
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3118 COMMERCE DR
City	KILLEEN
State	TX
ZIP	76543
County	BELL
Latitude (N) (##.#####)	
Longitude (W) (-###.#####)	
Facility NAICS Code	
What is the primary business of this entity?	Animal Control

Customer (Applicant) Information

How is this applicant associated with this site?	Operator
What is the applicant's Customer Number (CN)?	CN600674683
Type of Customer	Other Government
Full legal name of the applicant:	
Legal Name	City of Killeen
Texas SOS Filing Number	
Federal Tax ID	746001504
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	68980739
Number of Employees	501+

Independently Owned and Operated?

No

I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.

Yes

Responsible Authority Contact

Organization Name

City of Killeen

Prefix

MRS

First

Amanda

Middle

Last

Moore

Suffix

Credentials

Title

Interim Director of Animal Services

Responsible Authority Mailing Address

Enter new address or copy one from list:

RE Physical Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

3118 COMMERCE DR

Routing (such as Mail Code, Dept., or Attn:)

City

KILLEEN

State

TX

ZIP

76543

Phone (###-###-####)

2545016619

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

amoore@killeentexas.gov

Responsible Official Contact

Person TCEQ should contact for questions about this application:

Same as another contact?

CN600674683, City of Killeen

Organization Name

City of Killeen

Prefix

MRS

First

Amanda

Middle

Last

Moore

Suffix

Credentials

Title

Interim Director of Animal Services

Enter new address or copy one from list:

Mailing Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

3118 COMMERCE DR

Routing (such as Mail Code, Dept., or Attn:)

City

KILLEEN

State

TX

ZIP

76543

Phone (###-###-####)

2545016619

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

amoore@killeentexas.gov

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?

CN600674683, City of Killeen

Organization Name

City of Killeen

Prefix

MRS

First

Amanda

Middle

Last

Moore

Suffix

Credentials

Title

Interim Director of Animal Services

Enter new address or copy one from list:

Mailing Address

Address Type

Domestic

Mailing Address (include Suite or Bldg. here, if applicable)

3118 COMMERCE DR

Routing (such as Mail Code, Dept., or Attn:)

City

KILLEEN

State

TX

ZIP

76543

Phone (###-###-####)

2545016619

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

amoore@killeentexas.gov

Standard Permit General Information- New Reg Sites

1) Is this facility permanent or temporary?

Permanent

2) Will the proposed facility meet all of the requirements of the standard permit?

Yes

3) Select the type of unit that is being registered:

ANIMAL CARCASS INCINERATORS

3.1) Select the rule associated to the unit specified.

6009

3.2) Is the facility equal to or greater than 50 ft. from the nearest property line?

Yes

Standard Permit Attachments

Please attach one PDF with the PI-1S and all required documents to complete the project.

[File Properties]

File Name

10370 PI-1S COK 073125.pdf

Hash

E8B525BB6480E3D95B50D0D324EF2F7A9C93CE2296C85894C4BA35E2D9F70611

MIME-Type

application/pdf

Confidential

No

[File Properties]

File Name	Application explanation 073125.pdf
Hash	778163FE18E7B906492081C82DF0B9532EE91A307D4E01E896403A5A31DE4F73
MIME-Type	application/pdf
Confidential	No

Please attach any other necessary information needed to complete the registration.

[File Properties]

File Name	17029-ST U.S. Cremation Equipment 2017-05-01 XCEL (Evans Eagle Vaults Inc.).pdf
Hash	92F39243D4FFF3A7E7B5887874808500FCAA5D8F75B9B827337D2EF6AC7D0787
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	Emissions AP42 Sierra 1200 XCEL.pdf
Hash	100997B7AB2CD05179FF145CA34F11B54EB8695AB8327B1C81C38669FEDBE356
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	Process Flow Diagram Animal.pdf
Hash	397F10FA1FE774573AC962B1CDC2F521579BB1D0F10211D93A0C01C827359B34
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	USCE-CXL-ELEV-ASSY.pdf
Hash	C058123FFE11363CD7D4F1B9AA16F08E77BD9167CEBA36E1B03034759ADD8BFB
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	Specs - Sierra 1200 Classic X-CEL 073125 UL.pdf
Hash	25251C3CA5ACE07766AA3939A14189406B84BC7310522289D7D13ADE07765943
MIME-Type	application/pdf
Confidential	No

[File Properties]

File Name	Google Earth.pdf
Hash	150E47936D01A766F6FB01AA46A0A079AAAA6B62FE69F48EC19402EAE038C4C3
MIME-Type	application/pdf
Confidential	No

Expedite

Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No
--	----

Certification

The electronic signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Officials knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operated in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. If you questions on how to fill out this form or about air quality permits. Please call (512) 239-1250. Individuals are entitled to request and review their personal information that the agency gathers on its forms.

1. I am Patrick L Martin, the owner of the STEERS account ER115840.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Standard Permit New Registration.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OPERATOR Signature: Patrick L Martin OPERATOR

Customer Number:	CN600674683
Legal Name:	City of Killeen
Account Number:	ER115840
Signature IP Address:	72.188.176.23
Signature Date:	2025-10-07
Signature Hash:	9AB76DD25B573F289393DE4CA6EDCD13542E3BE9BFF0297DFDB37C088F88E1F9
Form Hash Code at time of Signature:	AACB5A1E22CE3A556597547D806721CEBD078C0C7E6C6DE4CD3EF2C4AB185CF0

Fee Payment

Transaction by:	The application fee payment transaction was made by ER115840/Patrick L Martin
Paid by:	The application fee was paid by PATRICK L MARTIN
Fee Amount:	\$900.00
Paid Date:	The application fee was paid on 2025-10-07
Transaction/Voucher number:	The transaction number is 582EA000688083 and the voucher number is 786701

Submission

Reference Number:	The application reference number is 805446
Submitted by:	The application was submitted by ER115840/Patrick L Martin
Submitted Timestamp:	The application was submitted on 2025-10-07 at 14:04:10 CDT
Submitted From:	The application was submitted from IP address 65.126.78.126
Confirmation Number:	The confirmation number is 683432

Steers Version:

The STEERS version is 6.93

Additional Information

Application Creator: This account was created by Luis Llorens

**Texas Commission on Environmental Quality
Registrations for Air Standard Permit
Form PI-1S Instructions**

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Introduction

The primary purpose of the Form PI-1S is to provide all administrative and technical information needed by the Air Permit Division (APD) to evaluate Standard Permit applications. These instructions are intended for use by applicants and consultants to help you prepare a complete Standard Permit request. The review of your project will go faster if you provide all necessary documents and information requested in the Form PI-1S and in the Core Data Form (TCEQ No. 10400).

Note: Applicants submitting registrations for Concrete Batch Plants (6004) and Concrete Batch Plants with Enhanced Controls (6008) must submit the PI-1S-CBP available here:
https://www.tceq.texas.gov/permitting/air/forms/newsourcereview/nsr_sp_forms.html. It is required for these standard permit registrations received on or after September 1, 2020.

Applicants submitting registrations for the Marine Loading Operations standard permit (6021) are required to submit the PI-1S-MLO available here:
https://www.tceq.texas.gov/permitting/air/forms/newsourcereview/nsr_sp_forms.html.

Overview

Texas Commission on Environmental Quality (TCEQ) regulates the release of air contaminants for specific, well-characterized classes of facilities under its Standard Permits.

Standard Permit projects must meet the requirements of the specific Standard Permit. For more information about the available Standard Permits, see our web page Standard Air Permits at www.tceq.texas.gov/permitting/air/nav/standard.html. The TCEQ also has an Air Quality Permitting fact sheet available to assist you in determining some of the other state or federal requirements you may need to know at <https://www.tceq.texas.gov/assets/public/permitting/air/factsheets/permit-factsheet.pdf>.

ePermits: The TCEQ now requires the use of the online TCEQ e-Services system at www.tceq.texas.gov/e-services to register your standard permit, pay registration fees, and receive registrations. To use the online system, you need to have an active State of Texas Environmental Electronic Reporting System (STEERS) account. Access STEERS at www3.tceq.texas.gov/steers/. For help with ePermits refer to the TCEQ STEERS ePermits Help web page at www3.tceq.texas.gov/steers/help/epr/eprmain.html. If an attachment cannot be submitted through STEERS due to the file size of an attachment which exceeds 50 MB or a file type which is not accepted, submit through FTPS. If using FTPS, you will share files with APIRT@tceq.texas.gov for the initial submittal. Once your project has been assigned, you will share files directly with your reviewer.

Confidential files should be submitted through STEERS or the TCEQ FTPS. All pages must be marked confidential and have *confidential* in the file name. Confidential submittals must be separate from non-confidential submittals.

Small Business Information and Agency Contacts

For agency contacts, see Contact Information for Air Permit Applications (including Environmental Assistance Division) at www.tceq.texas.gov/assets/public/permitting/air/airapp-contacts.pdf.

Instructions for Form PI-1S

These instructions are provided to assist the regulated community to accurately complete a registration request to operate under a standard permit.

I. Registrant Information

- A. Company or Other Legal Customer Name:** Registrations are claimed by either the facility owner or operator, commonly referred to as the “registrant.” List the legal name of the company, corporation, partnership, or person who is applying for the standard permit. Applicants can verify the legal name with the Texas Secretary of State at (512) 463-5555 or at www.sos.state.tx.us. The TCEQ will also verify the legal name with the Texas Secretary of State. You may be asked to correct the name provided on the Form PI-1S, if found to be different. In some cases, we may request a copy of the legal document forming the entity to verify the legal name; for example: general partnership filed with the county.
- B. Company Official Contact Information:** Provide the name, title, mailing address, telephone number, fax number, and email address of the company official contact. The company official must not be a consultant. All correspondence and issued permit documents will be sent via email within one business day of TCEQ’s decision. Please ensure that the email address provided for the company official is the most appropriate to receive time-sensitive correspondence from the TCEQ.
- C. Technical Contact Information:** Provide the name, title, company, mailing address, telephone number, fax number, and email address of the person TCEQ should contact for technical questions. This person must have the authority to make binding agreements and representations on behalf of the registrant. The technical contact may be a consultant.

II. Facility and Site Information

- A. Name and Type of Facility:** Enter the name of the facility for which the standard permit registration is being requested. The name should be descriptive and indicate the general type of operation, manufacturing process, equipment, or facility which would be authorized under the standard permit (include any numerical designation, if appropriate). The name must be descriptive and specific. Examples of acceptable names are, “Sulfuric Acid Plant” and “No. 5 Steam Boiler” Vague names such as, “Chemical Plant” and “North Process Area,” are not acceptable names. Also, check the appropriate box indicating the type of facility as either permanent or temporary. For hot mix asphalt plants, a temporary plant is limited to 180 days on site, or for the duration required to complete a single project. Hot mix asphalt plants that are expected to remain on site more than 180 days, and all rock and concrete crushers are considered permanent. Additionally, oil and gas production units are usually considered to be permanent. For portable units, please provide the serial number(s) of the equipment being authorized.
- B. Facility Location Information:** Provide the street address of the facility, if available. If there is no street address, describe the physical location with specific written directions. Identify the location by distance and direction from well-known landmarks, such as highway intersections. It is very important to also include the city and county where the facility will be located. If the address is not located in a city, then enter the city or town closest to the facility even if it is not in the same county as the facility. The county indicated must be the county where the facility is physically located. Please include the ZIP Code of the physical facility site, not the ZIP Code of the applicant’s mailing address. In some cases, the TCEQ may request a map showing the location of the facility during the review of the standard permit registration.

Enter the latitude and longitude coordinates in degrees, minutes, and nearest second (DDD:MM:SS) or in decimal form for the street address or the destination point of the driving directions. Latitude indicates the angular distance of a location north of the equator and will always be between 25 and 37 degrees north (N) in Texas. Longitude indicates the angular distance of a location west of the prime meridian and will always be between 93 and 107 degrees

west (W) in Texas. For help obtaining the latitude and longitude, you may view USGS maps, county maps prepared by the Texas Department of Transportation, or an online software application such as Google Earth.

C. TCEQ Core Data Form: We require that you submit a Core Data Form (TCEQ Form Number 10400) on all incoming applications unless the following are met.

1. Regulated Entity and Customer Reference Numbers have been issued by the TCEQ and;
2. No Core data information has changed.

Note: The Core Data Form is required for Standard Permits 6006, 6007, and 6013, without exception. Information required on the Core Data Form includes the following:

- Customer Reference Number (CN): This is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity. We assign the CN when a Core Data Form is initially submitted.
- Regulated Entity Number (RN): This is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN is assigned when a Core Data Form is initially submitted, if the agency has conducted an investigation, or if the agency has issued an enforcement action. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used when applying for authorization at a different location.

Note: *The company and facility site information provided on the Core Data Form must be the same as provided on the Form PI-1S.*

D. TCEQ Account Identification Number: This number was assigned by the TCEQ to the entire property owned or controlled by the applicant at a specific location. A typical example of an air quality account number is, JB-1234-R. Portable facilities are assigned account identification numbers which begin with a number, such as 92-1234-K. Provide your TCEQ account identification number if known.

E. Type of Action: Indicate the type of action being requested by checking the appropriate box. Check:

- *Initial Application* – if the facility has not previously been authorized by a standard permit,
- *Change to Registration* – if the facility has been previously registered, but changes or additions have occurred,
- *Renewal or Renewal Certification* – if a standard permit registration for the facility must be renewed. To determine which type of renewal the project qualifies for, see Section V Renewal Certification Option.

Provide the existing registration number and expiration date if Change to Registration, Renewal, or Renewal Certification is checked.

- F. Standard Permit Claimed:** Provide the standard permit that is being claimed. Below is a list of standard permits that can be claimed using the PI-1S. If the standard permit to be claimed is not listed, please check the Air Permits website for the appropriate registration or notification form at www.tceq.texas.gov/permitting/air/nav/standard.html.

Standard Permit	Description
6001	Pollution Control Projects
6002	Oil and Gas Facilities
6005	Electric Generating Unit
6007	Permanent Hot Mix Asphalt Plants Temporary Hot Mix Asphalt Plants
6009	Animal Carcass Incinerator
6011	Boilers
6012	Sawmills
6013	Permanent Rock and Concrete Crushers
6014	Anhydrous Ammonia Storage and Distribution Operations
6015	Dry Bulk Fertilizer Handling Operations
6016	Cotton Gin Facilities and Cotton Burr Tub Grinders
6017	Feedmills, Portable Augers, and Hay Grinders
6018	Grain Elevator/Grain Handling Operations and Portable Grain Augers
6019	Peanut-Handling Operations
6020	Temporary and Permanent Polyphosphate Blenders

- G. Previous Standard Exemption or PBR Registration Number:** If this standard permit application is for a change to an existing facility previously authorized under a standard exemption or PBR, list the previous standard exemption number(s), PBR registration number(s), and the associated effective date. Also attach additional information on whether the facility still meets the previous standard exemption or PBR, or whether a new registration is required and the previous standard exemption or PBR should be voided.
- H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit:** To properly track how this standard permit application may relate to other authorizations or compliance with TCEQ standard permit regulations, it is important to list all standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and the associated effective date.
- I. Other Air Preconstruction Permits:** If the registration is for a site that has any other minor or federal NSR air preconstruction permits, list all permit numbers.
- J. Affected Air Preconstruction Permits:** If the standard permit being claimed directly affects any permitted facility, list the affected preconstruction permit numbers.

K. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability):

Information and guidance on applicability of 30 TAC Chapter 122 can be accessed on our Program Applicability web page at www.tceq.texas.gov/permitting/air/titlev/pro_applicability.html.

1. If this standard permit application results in an increase in the site's potential to emit and renders the site a major source as defined in 30 TAC 122, a FOP application is required. Check the appropriate box if you are submitting a GOP or SOP application or revision application. Guidance on submitting these applications is available on the Guidance for Title V Operating Permits web page at www.tceq.texas.gov/permitting/air/nav/air_titlevopperm.html.
2. Identify the type(s) of FOP(s) issued for the site by checking the appropriate box. In addition, check the appropriate box if any General Operating Permit (GOP) or Site Operating Permit (SOP) application(s) for the site, including revision applications, are currently under review.

If you have questions about the applicability of 30 TAC Chapter 122 or impact of this Form PI-S on your existing FOP, please contact the TCEQ APD at (512) 239-1250, and ask to speak with someone in the Operating Permits Section.

III. Fee Information

Most standard permit registrations require an application fee at the time of application submittal. All fees must be paid prior to processing any standard permit authorization. All fees must be paid through STEERS.

A. Fee Amount: Review the specific standard permit you are requesting authorization for on our Standard Air Permits web page at www.tceq.texas.gov/permitting/air/nav/standard.html to determine fee requirements. Enter the fee amount paid for this registration.

B. Payment Information: Enter voucher number from ePay, if available.

IV. Public Notice

The THSC 382.056 and corresponding rules in 30 TAC Chapter 39 (Public Notice), or the Standard Permit being claimed, may require that you publish a notice of application, or a consolidated Notice of Application and Intent to Obtain Permit and Notice of Application and Preliminary Decision. Notices must be published in a newspaper of general circulation in the municipality where the proposed facility is or will be located. The notice must include a description of the facility and the fact that a person who may be affected by emissions from the facility may submit comments about the project, request a public hearing – as applicable to the Standard Permit being claimed, or request any other information the TCEQ requires by rule. Signs must also be posted around the proposed facility location – as applicable to the Standard Permit being claimed. Additional information regarding public notice such as an overview of requirements, an applicability table, and a list of some common errors that may cause re-notice and delays in processing your application can be found at www.tceq.texas.gov/permitting/air/bilingual/how1_2_pn.html.

Review the specific standard permit you are requesting authorization for on our Standard Air Permits web page at www.tceq.texas.gov/permitting/air/nav/standard.html to determine public notice requirements.

If you are unsure whether public notice applies, we encourage you to complete this section to expedite review of your application.

A. Responsible Person: A designated representative for the applicant should be identified as the person responsible for ensuring public notice is properly published in the appropriate newspaper and signs as applicable are posted at the facility site. Provide the name, title, company, mailing address, telephone number, fax number, and email address of the responsible person. This person will be contacted directly when the TCEQ is ready to authorize public notice for the application. To expedite contact, email and fax numbers are requested.

- B. Technical Contact:** The THSC 382.056 requires that each public notice contain a technical contact to represent the applicant during the public comment period. Provide the name, title, company, mailing address, telephone number, fax number, and email address of the technical contact. This person is responsible for answering any questions from the general public regarding the application and their name and phone number will be listed in the public notice. This person may or may not be the technical contact for the permit application review.
- C. Bilingual Notice:** In some cases, 30 TAC 39.405(h) or the Standard Permit being claimed requires that you publish public notice in an alternative language newspaper. The questions on the Form PI-1S are designed to assist you in determining if a bilingual notice is required. If an elementary or middle school nearest to the facility is in a school district required by the Texas Education Code to have a bilingual program, a bilingual notice will be required. If there is no bilingual program required in the school nearest the facility, but children who would normally attend those schools are eligible to attend bilingual programs elsewhere in the school district, the bilingual notice will also be required. If it is determined that alternate language notice is required, you are responsible for ensuring that the publication in the alternate language is complete and accurate in that language.
- D. Small Business Classification and Alternate Public Notice:** If a permit is being requested by a small business, the rules allow for alternative public notification requirements if all of the following are met:
- the company employs 100 people or less, or the company generates 6 million dollars or less in gross annual receipts;
 - the source is not a major stationary source under the federal operating permit requirements;
 - the site does not emit 50 tons per year or more of any individual regulated air contaminant; and
 - the site does not emit 75 tons per year or more of all regulated air contaminants combined.
- If these requirements are met, public notice does not have to include publication of the prominent (15 square inch) newspaper notice.

V. Renewal Certification Option

Renewal projects qualify for the renewal certification option if the answer is, "No," to each of the following questions in this section. The application for renewal certification projects does not need to include the Technical Information in Section VI. Except for renewals of a registration for the Standard Permit for Pollution Control Projects or Electric Generating Units, if a new version of the applicable standard permit has been issued since the applicant's last action, the renewal certification option is not available.

Note: If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.

- A.** Does the permitted facility emit an air contaminant on the Air Pollutant Watch List and is the permitted facility located in an area on the watch list? The air contaminants and locations can be found on the TCEQ website at www.tceq.texas.gov/toxicology/apwl/apwl.html.
- B.** For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT). For information on the HGB area cap and trade program for HRVOCs refer to 30 TAC §115.10. If this permit authorized emission of ethylene, propylene, 1, 3-butadiene, or butenes, these emissions must be speciated on the MAERT.
- C.** Does the company and/or site have an unsatisfactory compliance history? The compliance history rating for the company and the site can be found on the TCEQ website at <https://www2.tceq.texas.gov/oce/ch/index.cfm> by entering the regulated entity number or customer name.

- D. Are there any applications currently under review for this standard permit registration?
- E. Are planned maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time?
- F. Are any of the following actions being requested at this time? For more information regarding changes to representations refer to 30 TAC §116.615.
 - Are there any facilities that have been permanently shutdown that are proposed to be removed from the standard permit registration?
 - The following can result in changes to the standard permit registration:
 - Changes to representations at the site
 - Emissions factors changes for any source
 - Emissions calculation methodology changes for any source

A newer version of Compilation of Air Pollutant Emission Factors (AP-42) has been adopted with new emission factors (AP-42 can be found at www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors)

As a result, do changes need to be made to the standard permit registration in order to remain in compliance?
 - Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal?
 - Are there any changes to the current emission rates table being proposed?

VI. Technical Information Including State and Federal Regulatory Requirements

If any of the technical information below is not included with this submittal, it may result in a deficiency and voiding of the project. Additionally, any essential information (lab analysis, NAAQS compliance demonstrations, etc.) that is needed to confirm that facilities are meeting the requirements of the standard permit, must also be included. Attachments should include detailed demonstrations of compliance with all requirements.

A. Standard Permit Requirements: you must demonstrate compliance with the following, or provided detailed information for why any requirement is not applicable:

- General requirements in 30 TAC Sections 116.610 and 116.615,
- Emission limitations¹ of 30 TAC 106.261 or 30 TAC 106.262, and
- Individual requirements of the specific standard permit.

To assist you with preparing technical information, review our Air Quality Standard Permits General Requirements Checklist (TCEQ Form 20335) available on our Forms Search web page at www.tceq.texas.gov/search_forms.html. Use of the checklist is optional; however, your review will go faster if you supply this checklist.

B. Confidential Information: THSC Section 382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture as "Confidential," if you do not want this information in the public file. All confidential information should be separated from the standard permit application and submitted as a separate file within the same submittal. Additional information regarding confidential information can be found at www.tceq.texas.gov/permitting/air/confidential.html.

¹ Unless specified by a particular standard permit, any project which results in a net increase of emissions of air contaminants from the project other than carbon dioxide, water, nitrogen, methane, ethane, hydrogen, oxygen, or those for which a National Ambient Air Quality Standard (NAAQS) has been established must meet the emission limitations of 30 TAC 106.261 or 30 TAC 106.262.

- C. Process Flow Diagram:** Provide a process flow diagram so that the permit reviewer can verify all technical information regarding the affected facility. The process flow diagram should be sufficiently descriptive so the permit reviewer can determine the raw materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions). Block flow diagrams generally are not sufficient except for very simple facilities such as boilers.

Alternate material flows and changes in routing of emissions during periods of planned MSS should be depicted as well as any alternate emission control devices that will be used during these periods.

- D. Process Description:** Provide a process description to accompany the process flow diagram that discusses each step in the process and provides a step-by-step explanation of exactly how your business operates. The description should lead the permit reviewer through the process with emphasis on where the emissions are generated, why the emissions must be generated, what air pollution controls are used (including process design features that minimize emissions), and where the emissions enter the atmosphere.

The process description must also explain how the facility or facilities will be operating when the maximum possible emissions are produced. For some source types, this will probably be the highest production rate. For other source types, the maximum emission rates may occur at partial load. When applicable, discuss cycle times, reaction times, temperatures, pressures, material flow rates, and production rates. Be specific, and do not use generalities such as a small amount, sometimes, and occasionally opened. The process description must also include how the facility is operated during periods of planned MSS and what emission reduction techniques will be used to limit emissions, changes in character of emissions, and the frequency and duration of each type of planned MSS activity.

All information in the process description is an enforceable representation.

- E. Maximum Emissions Data and Calculations:** Represent the maximum hourly and total annual emission rates of the project, including emission rates for planned MSS facilities and related activities. You must also provide a demonstration of expected continuous compliance with the represented emission rates.

Note: submittal of a Table 1(a) for standard permits is not required; however, your review will go faster if you supply the Table 1(a), which is available at www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10153tbl.pdf.

The permit reviewer must be able to duplicate all emission calculations to verify and confirm emissions data and rates represented in the application. Supporting calculations and the technical bases for the emission rates are required. Include all emission rates calculations and any assumptions made in determining the emission rates.

List and discuss planned MSS activities separately. Provide emission rates and supporting emissions information from planned MSS activities, frequency, and duration of all planned MSS activities, and all planned MSS activity effects on emission rates. Additionally, note all emission points unique to MSS activities. Maximum hourly emission rates, in pounds per hour, from planned MSS should be based on the maximum rates expected from the MSS activities. Annual planned MSS emission rates, in tons per year, should be based on the number of expected MSS activities during any consecutive 12-month period.

Maximum hourly emission rates, in pounds per hour, should be based on the maximum (design) production capacity of the facility. Dividing the annual emissions in tons per year by the annual hours of operation in order to determine hourly emissions in pounds per hour is often unacceptable and inaccurate since this approach typically underestimates hourly emissions.

Maximum annual emission rates, in tons per year, should reflect the operation of the facility throughout any consecutive 12-month period with consideration given to future facility growth.

Include a discussion of the hours of operation and how the hours of operation relate to emission rates on an hourly and annual basis.

If the process is a non-continuous batch operation, or there are widely varying operating scenarios, clearly identify and account for the variations in emissions in the maximum hourly and annual emission rates. Supply additional information to describe the emission variations, particularly for emissions from MSS facilities and related activities.

Include emission rate information for each air contaminant during production operations and during periods of planned MSS. Contaminants must be specifically identified. For example: methanol rather than hydrocarbons or polter/styrene resin dust and iron dust rather than dust. Provide applicable Material Safety Data Sheets (MSDS), Safety Data Sheets (SDS), Air Quality Data Sheets, or equivalent supporting documents that provide complete speciation for all mixtures that contain potential air contaminants.

If spreadsheets are used to estimate emissions, they should be formatted such that they are clear and easy to follow and include example calculations with units and the data sources for the inputs. The permit reviewer may request an electronic version of the spreadsheet to verify the emission calculations are correct.

- F. Plot Plan:** Provide a plot plan that clearly shows a scale, a north arrow, all property lines, emission points, buildings, tanks, process vessels, other process equipment, and two benchmark locations (preferably UTM coordinates). If you submit the plot plan electronically, the preferred format to use is *.dxf or *.dwg or any other computer aided drawing (CAD) format. Labeling on the plot plan listing identification of emission points, buildings, tanks, etc., must be consistent with other representations in the permit application such as emission calculations, process flow diagrams, Table 1(a), air dispersion modeling (if any), other permitting representations, and the TCEQ Emissions Inventory, if required.

Note: All emission points on the affected property must be identified, including emission points approved in other air authorizations (e.g., NSR permits, Standard Permits, PBRs, Standard Exemptions, and Title V Operating Permits). Please provide a table of all emission points that identifies the authorization type and authorization identifier, such as a permit number or rule citation under which each emission point is currently authorized.

- G. Projected Start of Construction Date, Projected Start of Operation Date, and Length of Time at the Site:** Provide the projected start of construction date, projected start of operation date, and the length of time the facility has been located at the site.

Note: Construction is broadly interpreted as anything other than site clearance or site preparation. Activities such as land clearing, soil load-bearing tests, leveling of the area, sewers and utility lines, road building, power line installation, fencing, and construction shack building are considered site clearance or preparation. Equipment may be received at a plant site and stored, provided no attempt is made to assemble the equipment or connect it to any electrical, plumbing, or other utility system. All work, such as excavation, form erection, or foundations upon which facilities will rest is considered construction. Submit any questions regarding the definition of start of construction to airperm@tceq.texas.gov with copies to the appropriate TCEQ regional office and any local air pollution control program(s) having jurisdiction. Each request for clarification must be in writing with sufficient detail to identify the specific activity in question, and the agency response to this request must be in writing for the authorization to be valid. Additional information can be found at www.tceq.texas.gov/permitting/air/newsourcereview/before.html.

VII. Delinquent Fees and Penalties

We will not process your application until all delinquent fees and applicable penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. More information regarding delinquent fee and penalties can be found at

www.tceq.texas.gov/agency/financial/fees/delin/index.html<https://www.tceq.texas.gov/agency/delin/index.html>.

VIII. Signature Requirements

The Company Official identified in Section I.B. must sign all copies of the application. The applicant's consultant cannot sign the application. If this project has a capital cost of more than \$2,000,000.00, this application must be submitted under seal of a Registered Texas Professional Engineer (P.E.) or the appropriate exemption must be claimed pursuant to the Texas Engineering Practice Act.

The Company Official's signature confirms knowledge of the facts included in the application, and affirms the facts contained in the application are true and correct. The signature also signifies awareness that intentionally or knowingly making false statements or representations in the application is a criminal offense subject to criminal penalties.

Note: Signatures must be original and in ink. Signatures may not be reproduced by photocopy, fax, or other means. The original signature must be received before any permit is issued.

Applicants may check application receipt and status using the New Source Review Air Permits web page at www2.tceq.texas.gov/airperm/index.cfm?fuseaction=airpermits.start. For questions relating to the initial receipt and administrative review of the application, please contact the Air Permits Initial Review Team at (512) 239-1250.

IX. Copies of the Registration

The PI-1S application must be submitted through ePermits. No additional copies need to be sent to the Regional Office or local Air Pollution Control Program(s). The link to ePermits can be found here: <https://www3.tceq.texas.gov/steers/>.

A copy must also be maintained on-site. For sites that normally operate unattended, a copy must be maintained at an office within Texas that has operational control of the site.

Also, all *subsequent* correspondence should be copied to the TCEQ regional office and local air pollution control program(s), as appropriate. Do not attach a copy of Form PI-1S to subsequent correspondence unless specifically requested, as this may cause another registration file to be created. Indicate the assigned TCEQ registration number, TCEQ regulated entity number, and permit reviewer, if known, on all subsequent correspondence.

Texas Commission on Environmental Quality
Form PI-1S
Registrations for Air Standard Permit
(Page 1)

I. Registrant Information		
A. Company or Other Legal Customer Name: City of Killeen, Killeen Animal Services		
B. Company Official Contact Information (☐ Mr. ☒ Mrs. ☐ Ms. ☐ Other:) _____		
Name: Amanda Moore		
Title: Interim Director of Animal Services		
Mailing Address: 3118 Commerce Drive		
City: Killeen	State: TX	ZIP Code: 76543
Phone: 254-501-6619	Fax: _____	
Email Address: amoore@killeentexas.gov		
<i>All permit correspondence will be sent via email.</i>		
C. Technical Contact Information (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:) _____		
Name: Luis Llorens		
Title: President/Project Manager		
Company Name: AI Environmental Consulting Services, Inc./U.S. Cremation Equipment		
Mailing Address: 2814 Silver Star Road, Suite 201-D		
City: Orlando	State: FL	ZIP Code: 32808
Phone: 407-923-3945	Fax: 321-282-7358	
Email Address: ai@cfL.rr.com		
II. Facility and Site Information		
A. Name and Type of Facility – Animal Cremation facility		
Facility Name: City of Killeen, Killeen Animal Services		
Type of Facility:	☒ Permanent ☐ Temporary	
For portable units, please provide the serial number of the equipment being authorized below.		
Serial No: NA	Serial No: NA	

Texas Commission on Environmental Quality
Form PI-1S
Registrations for Air Standard Permit
(Page 2)

II. Facility and Site Information (<i>continued</i>)		
B. Facility Location Information		
Street Address: 3118 Commerce Drive		
If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed).		
City: Killeen	County: Bell	ZIP Code: 76543
Latitude (nearest second): 31 6' 41.94" N	Longitude (nearest second): 97 42' 5.98" W	
C. Core Data Form (required for Standard Permits 6006, 6007, and 6013).		
Is the Core Data Form (TCEQ Form 10400) attached?		☐ Yes ☒ No
If "No," provide customer reference number (CN) and regulated entity number (RN) below.		
Customer Reference Number (CN):		
Regulated Entity Number (RN):		
D. TCEQ Account Identification Number (if known):		
E. Type of Action:		
☒ Initial Application ☐ Change to Registration ☐ Renewal ☐ Renewal Certification		
For Change to Registration, Renewal, or Renewal Certification actions provide the following:		
Registration Number:	Expiration Date:	
F. Standard Permit Claimed: 6009		
G. Previous Standard Exemption or PBR Registration Number:		
Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?		☐ Yes ☒ No
If "Yes," enter previous standard exemption number(s) and PBR registration number(s) and associated effective date in the spaces provided below.		
Standard Exemption and PBR Registration Number(s)	Effective Date	

Texas Commission on Environmental Quality
Form PI-1S
Registrations for Air Standard Permit
(Page 3)

II. Facility and Site Information (<i>continued</i>)	
H. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?	☐ Yes ☒ No
If "Yes," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below.	
Standard Exemption, PBR Registration, and Standard Permit Registration Number(s)	Effective Date
84966, RN 10516660	Not Available
I. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	☐ Yes ☐ No
If "Yes," enter permit number(s) in the spaces provided below.	
J. Affected Air Preconstruction Permits	
Does the standard permit directly affect any permitted facility?	☐ Yes ☐ No
If "Yes," enter permit number(s) in the spaces provided below.	

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II. Facility and Site Information (<i>continued</i>)		
K. Federal Operating Permit (FOP) Requirements		
Is this facility located at a site that is required to obtain a FOP pursuant to 30 TAC Chapter 122?	☐ Yes ☒ No ☐ To Be Determined	
If the site currently has an existing FOP, enter the permit number:		
Check the requirements of 30 TAC Chapter 122 that will be triggered if this standard permit is approved (<i>check all that apply</i>).		
☐ Initial Application for a FOP ☐ Significant Revision for a SOP ☐ Minor Revision for a SOP ☐ Operational Flexibility/Off Permit Notification for a SOP ☐ Revision for a GOP ☐ To be Determined ☐ None		
Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site. (<i>check all that apply</i>)		
☐ SOP ☐ GOP ☐ GOP application/revision (submitted or under APD review) ☐ N/A ☐ SOP application/revision (submitted or under APD review)		
III. Fee Information (<i>go to www.tceq.texas.gov/epay to pay online</i>)		
A. Fee Amount:		
B. Voucher number from ePay:		
IV. Public Notice (<i>if applicable</i>)		
A. Responsible Person (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other:) _____		
Name: Amanda Moore		
Title: Interim Director of Animal Services		
Company: City of Killeen, Killeen Animal Services		
Mailing Address: 3118 Commerce Drive		
City: Killeen	State: TX	ZIP Code: 76543
Phone: 254-501-6619		Fax No.:
Email Address: amoore@killeentexas.gov		

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IV. Public Notice (continued) (if applicable)		
B. Technical Contact (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Other): _____		
Name: Luis Llorens		
Title: President/Project Manager		
Company: AI ENVIRONMENTAL CONSULTING SERVICES, INC./U.S. Cremation Equipment		
Mailing Address: 2140 Silver Star Road Suite 201-D		
City: Orlando	State: Florida	ZIP Code: 32808
Phone No.: 407-923-3945	Fax No.: 321-282-7358	
Email Address: Ai@cfl.rr.com		
C. Bilingual Notice		
Is a bilingual program required by the Texas Education Code in the School District?	☒ Yes ☐ No	
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?	☐ Yes ☐ No	
If "Yes," list which language(s) are required by the bilingual program?		
D. Small Business Classification and Alternate Public Notice		
Does this company (including parent companies and subsidiary companies) have fewer than 100 employees or less than \$6 million in annual gross receipts?	☐ Yes ☒ No	
Is the site a major source under 30 TAC Chapter 122, Federal Operating Permit Program?	☐ Yes ☒ No	
Are the site emissions of any individual regulated air contaminant equal to or greater than 50 tpy?	☐ Yes ☒ No	
Are the site emissions of all regulated air contaminant combined equal to or greater than 75 tpy?	☐ Yes ☒ No	
V. Renewal Certification Option		
A. Does the permitted facility emit an air contaminant on the Air Pollutant Watch List, and is the permitted facility located in an area on the watch list?	☐ Yes ☐ No	
B. For facilities participating in the Houston/Galveston/Brazoria area (HGB) cap and trade program for highly reactive VOCs (HRVOCs), do the HRVOCs need to be speciated on the maximum allowable emission rates table (MAERT)?	☐ Yes ☐ No	
C. Does the company and/or site have an unsatisfactory compliance history?	☐ Yes ☐ No	
D. Are there any applications currently under review for this standard permit registration?	☐ Yes ☐ No	

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V. Renewal Certification Option (<i>continued</i>)	
E. Are scheduled maintenance, startup, or shutdown emissions required to be included in the standard permit registration at this time?	☐ Yes ☐ No
F. Are any of the following actions being requested at the time of renewal:	☐ Yes ☐ No
1. Are there any facilities that have been permanently shutdown that are proposed to be removed from the standard permit registration?	☐ Yes ☐ No
2. Do changes need to be made to the standard permit registration in order to remain in compliance?	☐ Yes ☐ No
3. Are sources or facilities that have always been present and represented, but never identified in the standard permit registration, proposed to be included with this renewal?	☐ Yes ☐ No
4. Are there any changes to the current emission rates table being proposed?	☐ Yes ☐ No
<i>Note: If answers to all of the questions in Section V. Renewal Certification Option are "No," use the certification option and skip to Section VII. of this form. If the answers to any of the questions in Section V. Renewal Certification Option are "Yes," the certification option cannot be used.</i>	
*If notice is applicable and comments are received in response to the public notice, the application does not qualify for the renewal certification option.	
VI. Technical Information Including State and Federal Regulatory Requirements	
Place a check next to the appropriate box to indicate what you have included in your submittal. <i>Note: Any technical or essential information needed to confirm that facilities are meeting the requirements of the standard permit must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.</i>	
A. Standard Permit requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)	
Did you demonstrate that the general requirements in 30 TAC Sections 116.610 and 116.615 are met?	☒ Yes ☐ No
Did you demonstrate that emission limitations in 30 TAC Sections 106.261 and 106.262 are met?	☐ Yes ☐ No
Did you demonstrate that the individual requirements of the specific standard permit are met?	☒ Yes ☐ No
B. Confidential Information (All pages properly marked "CONFIDENTIAL")	☐ Yes ☒ No
C. Process Flow Diagram	☒ Yes ☐ No

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VI. Technical Information Including State and Federal Regulatory Requirements (<i>continued</i>)	
Place a check next to the appropriate box to indicate what you have included in your submittal.	
<i>Note: Any technical or essential information needed to confirm that facilities are meeting the requirements of the standard permit must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.</i>	
D. Process Description	☒ Yes ☐ No
E. Maximum Emissions Data and Calculations	☒ Yes ☐ No
F. Plot Plan	☒ Yes ☐ No
G. Projected Start Of Construction Date, Start Of Operation Date, and Length of Time at Site:	☒ Yes ☐ No
Projected Start of Construction (provide date): Upon Issuance of Permit	
Projected Start of Operation (provide date): Upon Issuance of Permit	
Length of Time at the Site: 1 week max.	
VII. Delinquent Fees and Penalties	
This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: www.tceq.texas.gov/agency/financial/fees/delin/index.html .	
VIII. Signature Requirements	
The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA) the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.	
Name (printed): Amanda Moore	
Signature (original signature required):	
Date:	
IX. Copies of the Registration	
The PI-1S application must be submitted through ePermits. No additional copies need to be sent to the Regional Office or local Air Pollution Control Program(s). The link to ePermits can be found here: www3.tceq.texas.gov/steers/ .	