Edit: Application Tracking

Air Case ID: 13216 Permit Id: 80

FIN No.: A0022

Company Name: US DEPARTMENT OF THE ARMY

HA Basin No: 110C

Increment Tracked ☐

Permit No: AP97110863.05 * Select a Permit No

Date App. Received: 09/22/2026 *

Permit Writer: Not Assigned (NA) *

Case Type: Class 1 Minor Revision *

Default ODS Date: 10/06/2026 *

Actual ODS Date:

Date App. to be Closed: 01/04/2027 *

Stop Days: **Actual Date App. to be Closed:** 1/4/2027

App. Incomplete? ☐

Date App. Closed:

Fee Paid ($): 10000 *

Case Description:

Comments:

Flag (For Class 4) : None

Update Cancel

DEPARTMENT OF THE ARMY
HAWTHORNE ARMY DEPOT
1 SOUTH MAINE AVENUE
HAWTHORNE NV 89415

RECEIVED
SEP 22 2026
BAPC/BAQP

21 September 2026

Class I Permitting Branch
Nevada Division of Environmental Protection
Bureau of Air Pollution Control
901 S. Stewart St. Suite 4001
Carson City, NV 89701

To Whom It May Concern,

Please find attached revision application for Hawthorne Army Depot's Class I Air Quality Operating Permit AP9711-0863.05 as submitted by Amentum Services, Inc.

Should you have any questions please contact Kevin Spala at (925) 588-5100, email kevin.spala@errg.com or Dave Haak at (775) 945-7021, email david.e.haak.civ@army.mil.

Sincerely,

HAAK.DAVID.EUGENE.1500782648 Digitally signed by HAAK.DAVID.EUGENE.1500782648 Date: 2026.09.21 10:45:36 -07'00'

David Haak
Environmental Coordinator

Enclosure

amentum™
Experience | Passion | Purpose

September 16, 2026

Class I Permitting Branch
Bureau of Air Pollution Control
Nevada Division of Environmental Protection
901 S. Stewart Street, Suite 4001
Carson City, NV 89701-5249

Re: Class I Operating Permit Revision
Air Quality Operating Permit No. AP9711-0863.05
Hawthorne Army Depot (HWAD)

To Whom It May Concern:

You will find attached for your processing the Class I Operating Permit revision application and supporting documentation for HWAD. You will also find attached confirmation of payment. Payment was made via NDEP's ePayment system on September 8, 2026, in the amount of $10,000.00.

If there are any questions or concerns regarding this permit, please contact Kevin Spala at (775) 945-7587 or Amanda McDaniel at (775) 544-8952.

Cordially,
Amentum Services, Inc.

Kevin Spala
Environmental Compliance Manager

c: Dave Haak, Army Environmental Coordinator
Rob Ralston, Amentum Program Manager
Amanda McDaniel, Broadbent Permitting Engineer
File

Attachments: 1) NDEP ePayment Confirmation No. 7889002700106360003081, $10,000.00, September 8, 2026.
2) "Class I Air Quality Operating Permit Revision, Main Base, Hawthorne Army Depot, Hawthorne, Nevada," Prepared by Broadbent & Associates, September 2026.

ubject: [EXTERNAL] Application Fee payment confirmation
ent: 9/8/2026, 4:44:30 PM
rom: ePayments@ndep.nv.gov<ePayments@ndep.nv.gov>
o: D'Asto, Gina

This Message Is From an External Sender

This message came from outside your organization.

Thank you for using the NDEP ePayment System.

Your Application Fee payment has been successfully processed!

PLEASE PRINT AND RETAIN THIS CONFIRMATION FOR YOUR RECORDS!

Company Name:	Amentum Services
Company Address:	1 South Maine Ave Hawthorne NV 89415
Contact First Name:	Gina
Contact Last Name:	D'Asto
Telephone:	(682) 430-9959
Payment Type:	Application Fee
Bureau:	Air Pollution Control
Application Type:	Class I Major Sources, Minor Revision To Operating Permit (10 or Less Emission Units and Insignificant Activities)
Fixed Fee Amount:	$10,000.00
Notes:	Hawthorne Air Permit Number AP9711-0863.05
Confirmation E-mail:	gina.dasto@amentum.com
Payment Amount:	$10,000.00
Today's Date:	9/8/2026
Confirmation Number:	7889002700106360003081
Settlement Date:	9/8/2026
Total Amount:	$10,000.00

Class I Air Quality Operating Permit Revision Main Base

RECEIVED
SEP 22 2026
BAPC/BAQP

Hawthorne Army Depot
Hawthorne, Nevada

Facility ID #A0022, Permit AP9711-0863.05

Prepared by:

Broadbent & Associates
5450 Louie Lane, Suite 101
Reno, NV 89511

On Behalf of:
Engineering/Remediation Resources Group, Inc and
Amentum Services, Inc.

September 2026

Executive Summary

Hawthorne Army Depot (HWAD) Main Base is a Federal Facility owned by the US Depart of the Army. Routine facility operation and maintenance are performed by the HWAD contract operator Amentum Services, Inc. (Amentum). HWAD currently operates under a Title V Class I Air Quality Operating Permit (AP9711-0863) issued by the Nevada Division of Environmental Protection (NDEP).

This permitting action is a Class I Air Quality Permit Revision for the purpose of adding a Hypertherm MAXPRO 200 plasma cutter and an Airblast AFC abrasive blast booth at HWAD. During this permitting action, HWAD also requests that Systems 31 and 32, a blast booth and surface coating booth, respectively, be removed from the permit. The emission units in these systems were never installed in Building 103-5 and there is no intention of procuring them or installing them in the future. The facility-wide potential to emit remains below the major source threshold that would trigger applicability of Prevention of Significant Deterioration (PSD) as outlined in 40 Code of Federal Regulations (CFR) Part 52.21. The change in emissions as a result of this revision is below significance thresholds, making this permit action a minor revision of an existing air quality operating permit. HWAD remains a Class I facility.

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1 NDEP Class I Application Package

2 Detailed Emission Calculations

3 Plasma Cutter and Blast Booth Summaries, Inclusive of Specification Sheets

4 Figures

Introduction

Hawthorne Army Depot (HWAD) Main Base is a Federal Facility owned by the US Depart of the Army. Routine facility operation and maintenance are performed by the HWAD contract operator Amentum. The installation was commissioned in 1930 as a Naval Ammunition Depot to store ammunition and ship conventional arms. In October 1977 the installation was transferred to the Army. The installation became government-owned, contractor-operated (GOCO) in 1980. The mission of HWAD is to:

- Receive, issue, store, renovate, test, demilitarize, and provide depot storage for conventional ammunition
- Maintain the capability to receive and ship containerized cargo
- Perform special missions and assignments when needs arise

HWAD currently operates under a Title V Operating Permit (AP9711-0863) issued by the Nevada Division of Environmental Protection (NDEP), as required by Nevada Administrative Code (NAC) Section 445B.287. This document represents a permitting action for the minor revision of HWAD's existing Class I Air Quality Operating Permit, AP9711-0863.05. Permit application documentation is provided in the following sections and appendices.

HWAD Main Base emission units include BEDS, RF-9, PODS, A5, MMTS, Old Bomb, Hot Gas, energetic material recovery processes, boilers, generators, surface coating booths, rock crushing units, stackers, an abrasive blaster, a battery retort, as well as insignificant emission units and activities.

This permit revision application presents general process and component descriptions, projected emissions, emission calculation spreadsheets, applicable requirements, emission unit forms, maps and drawings, and a narrative supporting the addition of a Hypertherm MAXPRO 200 plasma cutter and an Airblast AFC abrasive blast booth into

the HWAD permit and the removal of a surface coating booth and blast booth that were never installed at building 103-5. The NDEP Class I Air Quality Operating Permit Application Package is submitted as Appendix 1; detailed emission calculations are provided in Appendix 2; Appendix 3 provides equipment summaries inclusive of specification sheets and photographic documentation; and Appendix 4 contains site figures.

Purpose

This permit revision application is being submitted to add a Hypertherm MAXPRO 200 plasma cutter at building 49-9 and to add an Airblast AFC blast booth at building 104-3. Additionally, HWAD is requesting the removal of Systems 31 and 32 from the permit. System 31-S2.048 Pangborn Blast Booth and System 32-S2.049 Surface Coating Booth, both permitted in Building 103-5, were never installed. The project was terminated and there is no intention to procure and install these emission units in the future.

This application addresses potential emissions resulting from operations at HWAD, including the updates noted above. In support of this revision application, emissions from HWAD permitted sources and insignificant sources have been included in the facility wide emissions totals. Though included in the facility-wide totals, emission units not affected by this action are not otherwise addressed in this revision application.

Equipment Information

Photographs, detailed information, and specification sheets for the proposed plasma cutter and blast booth units have been summarized and are included in Appendix 3. Emission unit information is further documented on the NDEP application form package in Appendix 1.

Regulatory Applicability

The facility-wide potential to emit (PTE), including this revision action, is below the major source threshold that would trigger applicability of Prevention of Significant Deterioration (PSD) as outlined in 40 Code of Federal Regulations (CFR) Part 52.21. The PTE for PSD applicability determination does not include criteria pollutant emissions from Old Bomb, as it is exempt as a fugitive source, per 40 CFR Part 52.21.

HWAD remains subject to Title V (Class I) permitting requirements and this permitting action is a minor revision of an existing Class I Air Quality Operating Permit.

Ambient Air Quality Standards

HWAD must comply with National Ambient Air Quality Standards (NAAQS) and Nevada Ambient Air Quality Standards (NvAAQS). This permitting revision action does not trigger modeling based on emission increases - the proposed modification does not have the potential to emit greater than 10 tons of a regulated air pollutant per year, and modeling has been performed within the prior five years – most recently in November 2025. Emission increases from this revision are not expected to impact HWAD's compliance with the NAAQS and NvAAQS.

Limitations and Emission Caps

HWAD has several existing limitations and caps to reduce allowable emissions at the installation. Existing limitations and caps will remain unchanged and in place at HWAD following this permit revision action.

Conclusion

This permit revision application supports HWAD's request to add the plasma cutter and blast booth to the HWAD permit, and to remove System 31, EU S2.048 and System 32, EU S2.049 from the permit. HWAD will comply with applicable federal and state

regulations. The required associated supporting documentation are found in the appendices of this document.

APPENDIX 1

NDEP Class I Application Package

Class I

Air Quality Operating Permit (AQOP), Operating Permit to Construct (OPTC), and Prevention of Significant Deterioration (PSD)
Application Form

Facility Name: Hawthorne Army Depot
Existing Facility ID: AA0022
Existing Class I AQOP/OPTC: AP.9711-0863.05
Type of Facility: Army Depot
Number of Units (including IA's) in Facility: 108
Number of Units (including IA's) Affected in Action: 4

Application Type:

- ☐ New AQOP
- ☒ Minor Revision of Existing AQOP
- ☐ Significant Revision of Existing AQOP
- ☐ Renewal of Existing AQOP
- ☐ New OPTC
- ☐ Revision of OPTC
- ☐ Rollover OPTC to a New AQOP
- ☐ Rollover OPTC to Existing AQOP
- ☐ Administrative Revision of Existing AQOP
- ☐ New PSD AQOP
- ☐ Major PSD Revision of AQOP
- ☐ New PSD OPTC
- ☐ Major PSD Revision of OPTC

NDEP

Please Submit Application to:
Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class I Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249
Phone (775) 687-9349

September 2024
(Ver. 5)

IMPORTANT INFORMATION

- The Application packet contains:
  - General Company Information Form
  - Industrial Process Application Form
  - Combustion Equipment Application Form
  - Storage Silo Application Form
  - Liquid Storage Tanks Application Form
  - Facility-Wide Potential to Emit Table
  - Surface Area Disturbance Form
  - Plant Boundary Coordinates Form
  - Plant Building Parameters Forms
  - Application Certification Document with Required Attachments

- Please see the Guidance Document located at https://ndep.nv.gov/air/permitting/download-permit-forms for additional instructions on how to complete the application.
- The application is available from the Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) in a Microsoft Word file, or on the internet at https://ndep.nv.gov/air/permitting/download-permit-forms. A printed copy of the application must be submitted (mailed or hand delivered), along with an electronic version.
- The application filing fee required by Nevada Administrative Code (NAC) 445B.327 must be submitted with the completed application. Checks must be made payable to the "Nevada State Treasurer, Environmental Protection" with "BAPC" noted in the memo line. Fees may also be submitted electronically at https://epayments.ndep.nv.gov/.
- This application shall be used for a new, renewal, and revision of Class I sources, including AQOP, OPTC, rollover OPTC, and PSD actions.
- An application for a Class I AQOP, OPTC, and PSD must be signed by the Responsible Official, as defined in NAC 445B.156. The certification document (signature page) is the last page of the application and the original "wet" signature must be provided.
- All items in the application must be addressed. If an item does not apply "N/A" or similar notation must be entered in the appropriate blank. All other information must be provided. Incomplete applications will be returned to the Responsible Official within:
  - 45 days for a new or revision of Class I OPTC. (NAC 445B.3364(1))
  - 30 days for sources subject to permitting requirements set forth in 40 CFR 52.21 applying for a new or revision of Class I PSD OPTC. (NAC 445B.3364(2))
  - 60 days for a new, significant revision, or renewal of Class I AQOP. (NAC 445B.3395(1), NAC 445B.3443(3))
  - 10 working days for a minor revision of Class I AQOP. (NAC 445B.3395(5))
  - 30 days for sources subject to permitting requirements set forth in 40 CFR 52.21 applying for a new of Class I PSD. (NAC 445B.3395(2))
  - 45 days for an administrative revision of Class I OPTC. (NAC 445B.3441(2) and NAC 445B.3364(1))

IMPORTANT INFORMATION (continued)

- For the renewal of a Class I Operating Permit, a **complete** application and corresponding processing fee must be submitted in accordance with NAC 445B.3443(2) at least 240 days prior to the expiration date of the current permit but not earlier than 18 months. The BAPC suggests that the application be submitted well in advance of the timeline outlined in NAC 445B.3443 to ensure the application is deemed complete. The BAPC has 60 days to deem the application complete or incomplete. As stated above, incomplete applications will be returned within 60 days of the receipt of the application. Therefore, the BAPC recommends the application be submitted at least 300 days prior to expiration of the current permit.
- For stationary sources subject to the provisions regarding new source review set forth in United States Code (U.S.C.) Title 42 7501 through 7515, inclusive (nonattainment areas), include all information required by U.S.C. Title 42 7503 pursuant to NAC 445B.3363(2)(b)(3).
- For a proposed new major source or a proposed major modification to an existing stationary source that is subject to the provisions of 40 CFR 52.21, include all information required by 40 CFR 52.21 pursuant to NAC 445B.3368(3)(a).
- For a proposed new major source, or a proposed significant revision to an existing stationary source which is not subject to the provisions of 40 CFR 52.21, include all information as required by NAC 445B.308 through 445B.313, inclusive, pursuant to NAC 445B.3368(3)(b).
- For a proposed new major source or a proposed significant revision to an existing stationary source which is subject to the requirements of U.S.C. Title 42 7412 regarding hazardous air pollutants, include all information required by NAC 445B.308 through 445B.313, inclusive, pursuant to NAC 445B.3368(3)(c).

GENERAL COMPANY INFORMATION FORM

1. **Briefly describe the permitted facility's process and include the Standard Industrial Classification (SIC) number and North American Industry Classification System (NAICS). Add details in the attached Process Narrative.**

   Military installation used to: Receive, issue, store, renovate, test, demilitarize, and provide depot storage for conventional ammunition; Operate the calibration laboratory and ballistics test facility; Maintain the capability to receive and ship containerized cargo; and perform special missions and assignments when need arises. SIC 9711 & NAICS 928110, National Security.

2. **Company Name and Address that are to appear on the operating permit [NAC 445B.295(1)]:**

   Name: Department of the Army, Hawthorne Army Depot
   Address: 1 South Maine Avenue
   City: Hawthorne
   State: Nevada Zip Code: 89415

3. **Owner's Name and Address [NAC 445B.295(1)]:**

   Name: Same as above
   Address:
   City:
   State: Zip Code:

4. **Facility Name and Physical Address, if different from #2 [NAC 445B.295(1)]:**

   Name: Same as above
   Address:
   City:
   State: Zip Code:

5. **If records required under the operating permit will be kept at a location other than the facility, specify that location [NAC 445B.295(7)]:**

   Name: Not Applicable
   Address:
   City:
   State: Zip Code:

GENERAL COMPANY INFORMATION FORM (continued)

6. Responsible Official Name, Title and Mailing Address [NAC 445B.295(1)]:

Name: LTC Rylie DeLong
Title: Army Commander
Address: 1 South Maine Avenue, Building 1
City: Hawthorne
State: Nevada Zip Code: 89415
Phone Number: (775) 945-7002
Fax Number: (775) 945-7152
E-mail Address: Rylie.j.delong.mil@army.mil

Is this a new Responsible Official? ☐ Yes ☒ No

If yes, and the Responsible Official (RO) does not meet the definition under NAC 445B.156 then please fill out the "Responsible Official Identification/Designation/Change Request Form" and mail it in. (https://ndep.nv.gov/air/permitting/download-permit-forms)

7. Plant Manager or other appropriate Contact Name, Title and Address [NAC 445B.295(1)]:

Name: Kevin Spala
Title: Environmental Compliance Manager
Address: 1 South Maine Avenue, Building 37
City: Hawthorne
State: Nevada Zip Code: 89415
Phone Number: (775) 945-7587
Fax Number: Not Applicable
E-mail Address: kevin.spala@errg.com

8. Location and Driving Directions to the Facility (For Example: From Elko, Nevada, 4 miles south of I-80 at xx Interchange) [NAC 445B.295(8)]:

Hydrographic Basin (HA) Number: 109, 110 B & C
HA Basin Name: East Walker Area, Walker Lake Valley/Hawthorne Area

Township(s): 7, 8, 9 N; Range(s): 28, 29, 30, 31 E; Section(s): Multiple in each

UTM Coordinates for the Front Gate of the Facility (NAD 83, Zone 11):
4267855 m North; 356107 m East;
Nearest City: Hawthorne
County: Mineral County

Driving Directions from nearest city to the Facility:
US Route 95 North, One mile north of Hawthorne, Nevada

GENERAL COMPANY INFORMATION FORM (continued)

9. **Emission Cap Requested [NAC 445B.070, NAC 445B.296(2), NAC 445B.296(3)]:**
☐ Yes ☒ No (If yes, provide details in the attached Process Narrative) – Note: facility has emissions caps, however no cap is requested for this emission source/application.

10. **Important note** for completing the Industrial Process, Combustion Equipment, Storage Silo, and Liquid Storage Tank Application Forms: forms need to be included for all permitted emission units and insignificant activities. Provide additional forms as needed. All items in the application must be addressed. If an item does not apply, then "N/A" or similar notation (TDB, unknown, etc.) must be entered in the appropriate blank.

11. **Check one that applies:**
☒ Major Stationary Source [40 CFR 52.21]
☐ Minor Source [40 CFR 71.2]
☐ New Source Review (NSR) Synthetic Minor Source [40 CFR 49.167]

12. **Is the Facility subject to 40 CFR 51.307 and 52.21(p) (i.e., located within 100 km of a Class I Federal Area within Nevada and any adjacent states, for example Jarbidge Wilderness Area) protected by the Regional Haze Program (40 CFR Part 81)?**
☐ Yes ☒ No

13. **Check any of the following that apply to this application:**
☐ Involve significant changes to the existing requirements for monitoring, reporting, or recordkeeping.
☐ Require or change a determination of an emission limitation or other standard on a case-by-case basis.
☐ Require or change a visibility or increment analysis.
☐ Require or change a determination of ambient impact for any temporary source.
☐ Establish or change a condition of the operating permit for which there is no a federally enforceable emissions cap and/or an alternative emission limitation pursuant to U.S.C. Title 42 7412(i)(5).
☐ Result in an increase in allowable emissions that exceeds any of the following specified thresholds: Carbon monoxide, 100 tons per year; Nitrogen oxides, 40 tons per year; Sulfur dioxide (SO_2), 40 tons per year; Particulate Matter less than or equal to 10 microns in diameter (PM_{10}), 15 tons per year; Ozone (O_3), 40 tons per year of volatile organic compounds (VOC); Sulfuric acid mist, 7 tons per year; and Hydrogen sulfide (H_2S), 10 tons per year.
☐ Modification pursuant to any provision of U.S.C. Title 42 7401 to 7515, inclusive, or a major modification at an existing major stationary source.

If any of the boxes were checked above, a minor revision may not be made to the Class I Operating Permit pursuant to NAC 445B.3425.

14. **Will the Facility be constructed in more than one phase [NAC 445B.3395(17)]?**
☐ Yes ☒ No (If yes, provide details in the attached Process Narrative)

GENERAL COMPANY INFORMATION FORM (continued)

15. Will the facility violate any "Applicable requirement" pursuant to NAC 445B.019?
☐ Yes ☒ No

16. Verify facility's compliance status for the following regulations and describe the reason for exemption if applicable:

FEDERALLY ENFORCEABLE REQUIREMENTS			
NAC 445B.225	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(h)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(i)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(k)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR 52.21(r)(4)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Not PSD Source*
NAC 445B.252	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22067	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22093	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22037	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.227	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR Parts 60.1-60.19, 61.01-61.19, 61.140-61.157, 63.1-63.15, and 70	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR Part 82	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.230	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22017	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*

STATE REQUIREMENTS			
NRS 445B.470	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22013	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.326(1)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22087	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 459.952-459.95528	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*

17. Has the facility provided modeling for each non-combustion baghouse individually? (See Testing Determination System for Baghouses Guidance Document)
☐ Yes ☒ No

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **TBD**

Emission Unit Description: **Plasma Cutter with integral fume collector**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	30905900
	Manufacturer		Hypertherm
	Date Manufactured		2025
	Model Number		MAXPRO200
	Equipment Dimensions (LxWxH)	feet	41.23 x 27.12 x 40.14
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The Drop Height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the Drop Length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	Yes
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4267.691
	UTM Easting (NAD 83, Zone 11)	m	356.016
Operating Parameters	Material Type Processed		Metals (ie. mild steel, aluminum, stainless steel)
	Batch Process *if applicable*	*unit*/batch	N/A
	Start Time *if operating less than 24 hours day*	hour:minute	7:00 AM
	End Time *if operating less than 24 hours day*	hour:minute	5:00 PM
Control Equipment	Manufacturer		Industrial Vacuum Equipment Corp.
	Manufacturer's Guarantee included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	yes
Stack Parameters	Stack Height	Feet	18 ft
	Stack Inside Diameter	Feet	1.5 ft (18 inches)
	Stack Temperature	°F	88* (assume 68* ambient + 20* for additional heat)
	Stack Exit Velocity	feet/second	30.2 ft/sec (1,811.7 fpm)
	Actual Gas Volume Flow Rate	acfm	3,200 acfm
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	NA
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Plasma Cutter with integral fume collector**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☐ Yes ☒ No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☐ Yes ☒ No If yes, identify regulation and applicability.

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   The plasma cutter with integral fume collector will be operated and maintained according to manufacturer specifications, including startup, shutdown, and malfunction conditions. Filters will be inspected and replaced as necessary to maintain proper capture efficiency.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance will be demonstrated through routine operation and maintenance of the plasma cutter and integral Industrial Vacuum PSF-3200 Smoke/Fume Collector, including filter change out.
   Monitoring will consist of visual inspections, filter inspections/replacements, and maintenance records.

5. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput for this emission unit will be monitored through production operator logs documenting hours of operation and material processed.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **TBD**

Emission Unit Description: **Blast booth with integral dust collector**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: _____

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	TBD
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	30900201
	Manufacturer		Airblast AFC
	Date Manufactured		2026
	Model Number		NA
	Equipment Dimensions (LxWxH)	feet	21 x 8.5 x 8.5 (outside dimensions)
	Drop Length *if applicable*	feet	N/A
	Drop Height *if applicable*	feet	N/A
	The Drop Height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the Drop Length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	N/A
	Drop Horizontal Dimension 2 *if applicable*	feet	N/A
	Emissions Released Inside building?	yes/no	No
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	4267.691
	UTM Easting (NAD 83, Zone 11)	m	356.016
Operating Parameters	Material Type Processed		metal parts and surfaces
	Batch Process *if applicable*	*unit*/batch	N/A
	Start Time *if operating less than 24 hours day*	hour:minute	7:00 AM
	End Time *if operating less than 24 hours day*	hour:minute	5:00 PM
Control Equipment	Manufacturer		Airblast AFC
	Manufacturer's Guarantee included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	No
Stack Parameters	Stack Height	Feet	10 ft
	Stack Inside Diameter	Feet	1.5 ft (18 inches)
	Stack Temperature	°F	88* (assume 68* ambient + 20* for additional heat)
	Stack Exit Velocity	feet/second	37.7 ft/sec (2,264.7 fpm)
	Actual Gas Volume Flow Rate	acfm	4,000
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	NA
	Stack Release Type		☐ vertical ☐ capped ☒ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Blast booth with integral dust collector**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☐ Yes ☒ No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☐ Yes ☒ No If yes, identify regulation and applicability.

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   The abrasive blasting booth, abrasive recovery system, and dust collection equipment will be operated and maintained according to manufacturer specifications, including startup, shutdown, and malfunction conditions. The blast booth will remain enclosed during blasting operations to minimize fugitive emissions.
   Dust collector cartridge filters will be replaced as necessary to maintain proper particulate capture efficiency.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance will be demonstrated through proper operation and maintenance of the enclosed abrasive blasting booth and associated cartridge-filter dust collection system.
   Monitoring will consist of visual inspections, filter inspections/replacements, and maintenance records.

5. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput for this emission unit will be monitored through production operator logs documenting hours of operation and material processed.

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System No. & Name:									**Uncontrolled**					
	See Detailed Emission Calculations								PM					
									PM_{10}					
									$PM_{2.5}$					
									Controlled					
									PM					
									PM_{10}					
									$PM_{2.5}$					
System No. & Name:									**Uncontrolled**					
									PM					
									PM_{10}					
									$PM_{2.5}$					
									Controlled					
									PM					
									PM_{10}					
									$PM_{2.5}$					
System No. & Name:									**Uncontrolled**					
									PM					
									PM_{10}					
									$PM_{2.5}$					
									Controlled					
									PM					
									PM_{10}					
									$PM_{2.5}$					
System No. & Name:									**Uncontrolled**					
									PM					
									PM_{10}					
									$PM_{2.5}$					
									Controlled					
									PM					
									PM_{10}					
									$PM_{2.5}$					
System No. & Name:									**Uncontrolled**					
									PM					
									PM_{10}					
									$PM_{2.5}$					
									Controlled					
									PM					
									PM_{10}					
									$PM_{2.5}$					

*Exact format may be changed, but requested information is still required.

COMBUSTION EQUIPMENT DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Power Output		Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System No. & Name:													**Uncontrolled**					
	See Detailed Emission Calculations												PM					
													PM_{10}					
													$PM_{2.5}$					
													SO_2					
													NO_X					
													CO					
													VOC					
													Pb					
													Hg					
													H_2S					
													Controlled					
													PM					
													PM_{10}					
													$PM_{2.5}$					
													SO_2					
													NO_X					
													CO					
													VOC					
													Pb					
													Hg					
													H_2S					
System No. & Name:													**Uncontrolled**					
													PM					
													PM_{10}					
													$PM_{2.5}$					
													SO_2					
													NO_X					
													CO					
													VOC					
													Pb					
													Hg					
													H_2S					
													Controlled					
													PM					
													PM_{10}					
													$PM_{2.5}$					
													SO_2					
													NO_X					
													CO					
													VOC					
													Pb					
													Hg					
													H_2S					

*Exact format may be changed, but requested information is still required.

GREENHOUSE GASES (GHG) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:															
	See Detailed Emission Calculations										CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					
	System No. & Name:															
											CO_2					
											CH_4					
											N_2O					

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:															
	See Detailed Emission Calculations															

*Exact format may be changed, but requested information is still required.

FACILITY-WIDE POTENTIAL TO EMIT TABLE
(FOR ALL SOURCES INCLUDING INSIGNIFICANT ACTIVITIES)
(POUND/HOUR AND TON/YEAR)

Pollutant	Facility-Wide Potential to Emit (pound/hour)	Facility-Wide Potential to Emit (ton/year)
Total Particulate Matter (PM)	14.38	24.06
Total PM_{10}	11.48	21.57
Total $PM_{2.5}$	9.70	19.35
Total Sulfur Dioxide (SO_2)	35.82	70.94
Total Carbon Monoxide (CO)	36.75	25.77
Total Oxides of Nitrogen (NO_X)	155.06	249.0 – CAP
Total Volatile Organic Compounds (VOC)	14.53	19.29
Total Lead (Pb)	0.014	9.05
Total Hydrogen Sulfide (H_2S)	NA	NA
Total Sulfuric Acid Mist (H_2SO_4)	NA	NA
Total Hazardous Air Pollutants (HAPs)	9.9 – CAP	24.9 – CAP
Total Greenhouse Gases (CO_{2e})	31,647.58	51,813
Other Regulated Pollutants (Specify)		

REVISION TABLE

Please complete the table below if this application is for a Minor/Significant **Revision** of an existing Class I Air Quality Operating Permit. Add more columns if needed for any other applicable regulated pollutants. All Potential To Emit (PTE) values must be in tons per year (TPY) [NAC 445B.3425 and NAC 445B.344]

Description	Pollutants									
	PM	PM_{10}	$PM_{2.5}$	SO_2	NOx	CO	VOC	HAPs	CO_{2e}	Other
Permitted Facility-Wide PTE (TPY)	24.27	21.76	19.54	70.94	249	25.77	24.33	24.9	51,813	NA
Proposed Facility-Wide PTE (TPY)	24.06	21.57	19.35	70.94	249	25.77	19.29	24.9	51,813	NA
Change in Facility-Wide PTE (TPY)	-0.213	-0.189	-0.189	0.000	0.000	0.000	-5.040	0.000	0.000	NA

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: 144.441
2. Total Acres Disturbed: No new disturbed acres
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
   N/A
4. NAC 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water spray systems to control wind-blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind limiting fencing designed to limit wind erosion soils.
5. If the Surface Area Disturbance is greater than 5 acres, please check each box that applies for Best Management Practices (BMPs) used for controlling dust on project's disturbed areas:
   - ☐ Water trucks
   - ☐ Graveling/paving of roadway storage areas and staging areas
   - ☐ Dust palliatives
   - ☐ Posting and limiting vehicle speeds to 10-15 miles per hour
   - ☐ Ceasing operations during high wind events
   - ☐ Fencing or berming to prevent unauthorized access to disturbed areas
   - ☐ Application of water sprays on material storage piles on a regular basis
   - ☐ Covering material storage piles with tarpaulin or geo-textiles; tenting
   - ☐ Use of overhead water spray racks or water hoses
   - ☐ Track-out controls (graveled entranced, exit area, and street sweeping)
   - ☐ Landscape preservation and impact avoidance
   - ☐ Wind fence
   - ☐ Pre-watering of areas to be disturbed (including all unpaved onsite roads and staging areas)
   - ☐ Inform all subcontractors (including truck drivers) of their responsibilities for the control of fugitive dust while they are on the project site
   - ☐ Training of equipment operators to recognize fugitive dust generation and having the authority to shut down operations until water truck arrives and sprays water on the disturbed areas
   - ☐ Other Applicable BMPs: N/A
   - ☐ Other Applicable BMPs: N/A
   - ☐ If using water trucks, list how many water trucks are used and their capacity in gallons: N/A

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
1	358397.11	4267340.82
2	356297.11	4267740.82
3	348497.11	4277640.82
4	351697.11	4281940.82
5	359729	4265229
6	338720.5	4280253.77
7	340392.52	4280253.77
8	340417.47	4280278.06
9	340417.47	4280861.13
10	340442.39	4280885.41
11	345957.47	4280873.17
12	345980.86	4280847.62
13	345967.65	4280053.32
14	345992.14	4280029.32
15	346290.95	4280039.19
16	346390.7	4280018
17	346393.9	4279479.24
18	346371.75	4279455.18
19	346237.93	4279457.81
20	346215.63	4279433.34
21	346215.63	4278860.43
22	346240.53	4278835.31
23	346614.04	4278832.23
24	346638.65	4278808.12
25	346635.73	4278569.05
26	346660.37	4278545.37
27	347009.34	4278548.43
28	347034.57	4278524.01
29	347047.96	4277439.79
30	347072.75	4277415.23

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
31	348003.34	4277418.56
32	348051.68	4277422.46
33	348266.36	4277456.81
34	348308.29	4277475.5
35	348459.01	4277908.43
36	348434.52	4277946.62
37	348233.36	4278083.64
38	348196.25	4278113.84
39	348001.34	4278302.76
40	347967.19	4278332.91
41	347768.94	4278490.34
42	347758.45	4278505.5
43	347648.44	4278688.58
44	347648.59	4278729.52
45	347749.35	4278889.05
46	347764.04	4278933.48
47	347794.3	4279196.74
48	347786.63	4279238.43
49	347621.81	4279583.61
50	347611.16	4279629.67
51	347608.36	4279825.58
52	347599.02	4279871.06
53	347485.07	4280131.95
54	347453.64	4280159.68
55	347325.07	4280191.17
56	347286.5	4280213.91
57	347062.25	4280432.91
58	347023.77	4280461.86
59	346897.83	4280543.2
60	346852.35	4280556.76

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
61	346683.72	4280551.16
62	346638.94	4280559.26
63	346533.99	4280606.74
64	346510.2	4280639.32
65	346501.8	4280708.59
66	346505.42	4280753.84
67	346531.07	4280842.47
68	346521.74	4280882.12
69	346427.28	4280987.07
70	346412.94	4281024.85
71	346417.14	4281085.73
72	346407.6	4281127.44
73	346342.01	4281256.01
74	346326.41	4281300.18
75	346259.01	4281627.99
76	346247.11	4281671.02
77	346216.02	4281751.29
78	346155.38	4281886.56
79	346159.78	4281931.65
80	353425.94	4281913.67
81	353425.94	4281888.7
82	353432.88	4275806.28
83	353457.43	4275781.14
84	362535.54	4275732.52
85	362560.52	4275707.43
86	362567.29	4274260.01
87	362592.09	4274234.95
88	364270.95	4274228.15
89	364295.95	4274203.06
90	364316.33	4272528.31

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
91	364341.51	4272503.28
92	372373.37	4272492.87
93	372398.38	4272469.92
94	372425.94	4267567.31
95	372401.2	4267542.66
96	370761.15	4267552.85
97	370736.27	4267528.05
98	370722.33	4253202.81
99	370697.33	4253177.85
100	357439.15	4253174.36
101	357414.24	4253198.96
102	357417.68	4254871.1
103	357392.89	4254895.53
104	356004.61	4254892.16
105	355980.09	4254917
106	356004.2	4257645.28
107	355980.28	4257669.64
108	355667.99	4257666.6
109	355644	4257691.31
110	355647.42	4259985.4
111	355623.41	4260010.55
112	355286.68	4260013.61
113	355262.22	4260038.32
114	355252.57	4260604.63
115	355276.74	4260629.56
116	355965.7	4260629.56
117	355992.48	4260653.81
118	356051.11	4261308.5
119	356029.49	4261335.08
120	355720.23	4261365.4

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
121	355696.44	4261391.97
122	355696.44	4261682.85
123	355720.93	4261706.28
124	355990.31	4261697.4
125	356014.45	4261721.55
126	356004.65	4262420.3
127	356027.79	4262446.01
128	356309.67	4262455
129	356333.16	4262479.1
130	356333.16	4262883.3
131	356357.88	4262906.82
132	356679.27	4262903.79
133	356703.8	4262927.27
134	356700.69	4263306.66
135	356724.57	4263330.16
136	357085.74	4263327.08
137	357109.55	4263350.28
138	357106.59	4263607.82
139	357130.63	4263630.01
140	357568.29	4263607.97
141	357592.6	4263631.59
142	357592.6	4264078.69
143	357617.36	4264103.46
144	358855.28	4264100.1
145	358879.26	4264124.13
146	358866.82	4264509.74
147	358890.14	4264534.03
148	359275.75	4264537.14
149	359301.27	4264561.95
150	359336.91	4265177.42

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
151	359361.32	4265203.54
152	359597.22	4265220.93
153	359644.1	4265230.03
154	359730.55	4266199.88
155	359705.67	4266224.9
156	359362.82	4266243.27
157	359340.66	4266488.31
158	359345.09	4266951.39
159	359320.43	4266975.96
160	358946.92	4266979.05
161	358923.65	4267002.81
162	358944.87	4267309.04
163	358922.45	4267332.89
164	358365.83	4268574.35
165	358342.24	4268590.85
166	356178.26	4267837.57
167	356173.82	4267815.39
168	356345.56	4267689.44
169	356351.72	4267654.91
170	356080.21	4267223.69
171	356083.1	4267184.14
172	356415.3	4266784.86
173	356429.84	4266740.88
174	356404.4	4266241.56
175	356378.29	4266216.24
176	356179.58	4266213.44
177	356154.74	4266188.42
178	356154.74	4264411.58
179	356129.77	4264386.91
180	348441.12	4264390.39

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
181	348416.1	4264365.62
182	348412.71	4262903.84
183	348387.67	4262879.68
184	346863.34	4262916.94
185	346838.35	4262892.86
186	346838.35	4261189.51
187	346813.45	4261164.81
188	341856.97	4261161.34
189	341832.11	4261186.22
190	341839.02	4264995.23
191	341815.07	4265019.96
192	341359.27	4265016.79
193	341337.69	4265040.24
194	341371.36	4265370.84
195	341398.62	4265394.64
196	341821.2	4265397.77
197	341846.06	4265422.92
198	341846.06	4266296.59
199	341821.42	4266323.04
200	340712.71	4266390.03
201	340688.1	4266416.37
202	340691.53	4268976.51
203	340667.63	4269001.36
204	340260.7	4269001.36
205	340236.62	4269025.42
206	340233.42	4269554.56
207	340208.92	4269578.61
208	339648.89	4269578.61
209	339624.78	4269603.58
210	339638.29	4271002

PLANT BOUNDARY COORDINATES FORM *if applicable*

Corner Number	UTM Easting	UTM Northing
211	339613.67	4271026.97
212	338718.81	4271026.97
213	338693.96	4271051.9
214	338697.03	4279155.32
215	338697.04	4279180.25

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building #13 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355864.6	4267914.8		
355884.6	4267921.7		
355893.8	4267897.5		
355875.1	4267889.3		

Building Parameters

Building Name: Building #2 **Building Tier :** 1

Roof Height (ft): 25.0 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355903.8	4267871.7		
355915.1	4267876.5		
355919	4267865.8		
355908.8	4267861.2		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building #5 **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355811.5	4267707.8		
355830.9	4267715.3		
355838.7	4267698.7		
355818.8	4267690.1		

Building Parameters

Building Name: Building #26 **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355832.7	4267543.3		
355864.4	4267555.3		
355872.5	4267533.9		
355842.6	4267522		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 103-6 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359106.4	4269932.2		
359120.7	4269910.2		
359102.6	4269898.8		
359087.7	4269921		

Building Parameters

Building Name: Building 103-16 **Building Tier :** 1

Roof Height (ft): 39.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
358742.1	4269765.8		
358774.6	4269729.7		
358743.6	4269696.6		
358708.1	4269734.8		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-2 **Building Tier :** 1

Roof Height (ft): 54.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
356193.9	4273244.6		
356210.1	4273228		
356172.5	4273196.8		
356156.3	4273214.4		

Building Parameters

Building Name: Building 117-16 **Building Tier :** 1

Roof Height (ft): 35.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355968	4273489.1		
355984.8	4273482.9		
355988.6	4273493.6		
355998.2	4273490.4		
355995	4273480.8		
356017.9	4273473.9		
356015	4273459.7		
355964	4273476		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building RF-9A **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355998	4273293		
356019.8	4273272.3		
355981.7	4273239.7		
355961.9	4273260.8		

Building Parameters

Building Name: Building RF-9B **Building Tier :** 1

Roof Height (ft): 25.0 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355933.7	4273256.2		
355947.8	4273242.1		
355909.3	4273203.4		
355895.6	4273217.5		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-5 **Building Tier :** 1

Roof Height (ft): 64.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355666.72	4273260.45		
355682.5	4273243.7		
355668.88	4273232.05		
355652.8	4273248.7		

Building Parameters

Building Name: Building 117-6N **Building Tier :** 1

Roof Height (ft): 70.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355801.6	4272946.03		
355819.53	4272960.82		
355841.7	4272937.4		
355823.9	4272921.6		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-6S **Building Tier :** 1

Roof Height (ft): 70.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355828.2	4272911.8		
355847.6	4272928.6		
355860.4	4272914.3		
355841.82	4272897.42		

Building Parameters

Building Name: Building 117-6 SQ **Building Tier :** 1

Roof Height (ft): 39.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355770	4272912.6		
355778.7	4272921		
355787.9	4272910.7		
355778.9	4272903		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-6 REC **Building Tier :** 1

Roof Height (ft): 39.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355791	4272913.5		
355800.4	4272921.87		
355816.5	4272904.01		
355806.59	4272895.52		

Building Parameters

Building Name: Building 117-6 RND **Building Tier :** 1

Roof Height (ft): 25.0 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355793.4	4272894.6		
355798.2	4272895.9		
355803.2	4272892.8		
355803.8	4272886.8		
355801.1	4272883.4		
355795.6	4272883.4		
355792.6	4272886.6		
355792.2	4272892.1		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-6 SQW **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355813.5	4272895.6		
355822.67	4272904.09		
355833.7	4272893.8		
355823.8	4272884		

Building Parameters

Building Name: BEDS **Building Tier :** 1

Roof Height (ft): 45.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355948.3	4273049.1		
355962.7	4273061.9		
355977.6	4273046.5		
355961	4273035		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 117-1 **Building Tier :** 1

Roof Height (ft): 25.0 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
356113.8	4273113.4		
356137.8	4273133.8		
356156.9	4273109.4		
356134.2	4273090.3		

Building Parameters

Building Name: Building 102-52 **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359939.4	4270537		
360059.1	4270477.6		
360051.3	4270463.8		
359933.3	4270524		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 102-52S **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359915	4270510.6		
360053.4	4270443		
360048.5	4270435.7		
359910.5	4270502		

Building Parameters

Building Name: Building 94 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359872.7	4270655.9		
359861.7	4270627.4		
359851.1	4270633.1		
359862.1	4270658.3		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 103-31 **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
358693	4268694.6		
358716.4	4268708.84		
358721.7	4268700.5		
358697.8	4268686		

Building Parameters

Building Name: Building 49-31 **Building Tier :** 1

Roof Height (ft): 25.0 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359844.2	4266504.51		
359861.31	4266514.06		
359873.19	4266488.6		
359856.5	4266480.2		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 49-9N **Building Tier :** 1

Roof Height (ft): 35.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing

Building Parameters

Building Name: Building 49-9 **Building Tier :** 1

Roof Height (ft): 35.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359823.1	4266446		
359838.5	4266452.6		
359866.2	4266396.3		
359851.3	4266390.6		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 104-9 **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360249.5	4266501		
360303	4266517		
360309.9	4266496.4		
360254.9	4266479.6		

Building Parameters

Building Name: Building 104-3 **Building Tier :** 1

Roof Height (ft): 39.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360510.8	4266034.2		
360494.8	4266008.2		
360528.4	4265989.8		
360546	4266013.5		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 104-2 **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360570.4	4265992.1		
360566.6	4265985.3		
360584.2	4265973.8		
360586.5	4265979.2		

Building Parameters

Building Name: Building 104-4 **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360815.68	4265705.52		
360832.66	4265697.04		
360823.3	4265679.7		
360807.3	4265688.8		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 104-5 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360801.9	4265677.65		
360818.7	4265670.07		
360764.5	4265556.7		
360748.4	4265566.6		

Building Parameters

Building Name: Building 104-5W **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
360774.4	4265690.83		
360792.7	4265682		
360736.2	4265569.01		
360719.4	4265576.5		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 8 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355974	4267784		
355996.17	4267792.81		
356001.5	4267779		
355979.7	4267770.09		

Building Parameters

Building Name: Building 8W **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355968.96	4267781.97		
355973.7	4267768.6		
355897.7	4267738.7		
355892	4267752.4		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 37 **Building Tier :** 1

Roof Height (ft): 35.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355797.3	4267877.1		
355812	4267883.3		
355824.9	4267849.1		
355810.1	4267843.6		

Building Parameters

Building Name: Building 103.6S **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359078.9	4269876.2		
359092.7	4269872.8		
359077.8	4269805		
359062.8	4269808.4		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building CT **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359021.2	4270242		
359041	4270236.3		
359023.1	4270164.2		
359002.9	4270170		

Building Parameters

Building Name: A5-Building 1 **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
352704.04	4267680.29		
352726.71	4267690.9		
352738.88	4267673.18		
352721.06	4267661.12		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 108-25 TL **Building Tier :** 1

Roof Height (ft): 10.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359225	4271372		
359264	4271330		
359272	4271338		
359278	4271332		
359271	4271324		
359309	4271284		
359307	4171282		
359223	4271370		

Building Parameters

Building Name: Building 108-25 **Building Tier :** 1

Roof Height (ft): 20.01 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359312	4271285		
359247	4271222		
359268	4271199		
359288	4271219		
359280	4271228		
359324	4271271		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 108-25 AJ **Building Tier :** 1

Roof Height (ft): 14.99 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
359334	4271280		
359311	4271257		
359348	4271220		
359374	4271245		
359345	4271276		
359341	4271271		

Building Parameters

Building Name: Building 64 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355993.13	4267647.74		
356062.86	4267674.27		
356057.16	4267691.23		
355987.17	4267664.93		

PLANT BUILDING PARAMETERS FORM *if applicable*

Building Parameters

Building Name: Building 43- Water Treatment Facility **Building Tier :** 1

Roof Height (ft): 35.01 **Building Diameter (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
352726.19	4267691.36		
352738.98	4267673.49		
352720.98	4267661.43		
352709.08	4267679.29		

Building Parameters

Building Name: Building 63 **Building Tier :** 1

Roof Height (ft): 29.99 **Building Diameter[4] (ft):** N/A

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing
355984	4267674		
356055	4267700		
356049	4267718		
355978	4267691.67		

APPLICATION CERTIFICATION DOCUMENT

(With Required Attachments)

Please check all applicable boxes below to indicate the information provided in your application submittal:

- ☒ Cover Page
- ☒ General Company Information Form
- ☐ Compliance Plan
- ☒ Industrial Process Application Form(s)
- ☐ Combustion Equipment Application Form(s)
- ☐ Storage Silo Application Form(s)
- ☐ Liquid Storage Tank Application Form(s)
- ☐ Manufacturer's Guarantee
- ☒ Facility-Wide Potential to Emit Table
- ☒ Revision Table
- ☒ Surface Area Disturbance Form – NA, no new disturbance
- ☒ Plant Boundary Coordinates Form
- ☒ Plant Building Parameters Form
- ☒ Detailed Emission Calculations (for all emission units including IA units) – See above NDEP calculation forms and Appendix 2.
- ☐ Source Testing Data (if referenced in calculations)
- ☒ Process Narrative (revision applications must include a description of the revision) – See application narrative document.
- ☒ Process Flow Diagram(s) – See Appendix 3.
- ☒ Site Plan(s) showing the locations (UTM coordinates), dimensions, and heights of buildings on the site – See Appendix 4.
- ☒ Maps: – Appendix 4.
  - ☒ Vicinity Map of where the facility is located in the State
  - ☒ Area Map of the Facility (including location of all emission units, building locations (with UTMs), location of front gate, and fence line/site boundary (with UTMs))
- ☐ Environmental Evaluation (AERMOD Air Dispersion Modeling Report and Electronic Input Files) (NAC 445B.310, NAC 445B.311)
- ☐ Manufacturer's Guarantee *if applicable*
- ☒ Equipment Specifications *if applicable* – See Appendix 3.
- ☐ TANKs Modeling Output *if applicable*
- ☒ Application Fee Attached or Electronically Submitted
- ☒ Digital Copy of Application on CD or Thumb Drive
- ☒ Application Certification Document with Original Responsible Official Signature

APPLICATION CERTIFICATION DOCUMENT (CONTINUED)

(With Required Attachments)

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

A. A permit applicant must submit supplementary facts or corrected information upon discovery. (NAC 445B.297(1)(b))

B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request. (NAC 445B.297(1)(c))

C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense. (NRS 445B.470)

CERTIFICATION:

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete.



Signature of Responsible Official

LTC Rylie DeLong, Army Commander

Print or Type Name and Title

15 Sept 2026

Date

APPENDIX 2

Detailed Emission Calculations

S2.XXX
Plasma Cutting Building 49-9

	Permitted	Proposed	Comments
NUMBER OF UNITS:	0	1	Hypertherm MAXPRO 200 Plasma cutter at 49-9, with nano fiber filter, 99.9% efficiency at 0.5 micron. Assume only 99% efficiency for conservatism in determining potential emissions.

SYNOPSIS: Plasma cutting in bldg 49-9 at the HWAD facility.

PHYSICAL SPECS:

	UTM Eastern Coordinate (km)	UTM Northern Coordinate (km)
Point Source Location:	359822	4266443

Stack Parameters:	
Stack Height =	18 (ft)
Stack Diameter =	1.5 (ft)
Stack Flow Rate =	3,200 (acfm)
Stack Velocity =	30.2 (ft/s)
Stack Temperature =	88 (F)

VARIABLES:

	Permitted		Proposed		Comments
Max Cutting speed =		in/min	125	in/min	Per HWAD, plasma-cutting, max welding speed of 125 in/hr and 7,500 in/hr, for 10hr/day
Max Throughput =		in/hr	7500	in/hr	Assume dry cutting and mild steel with about 8 mm thickness.
Duration =		hr/day	10	hr/day	Fume collector equiped with nano fiber filter (effficiency of 99.9% @ 0.5 micron).
Max Annual Throughput =		in/yr	19,500,000	in/yr	Assume stack exhaust is 88* F (68* room temperature plus 20* to account for plasma cutting heat)

FACTORS:

Pollutant	Permitted Emission Factor	Proposed Emission Factor	Units	Source	Comments
TSP =	0.000705	0.000705	lb/in	AP-42 reference to "Emission of Fume, Nitrogen Oxides and Noise in Plasma Cutting of Stainless and Mild Steel" The Swedish Institute of Production	
PM-10 =	0.000705	0.000705	lb/in	Engineering Research Goteborg, Sweden. Worst-case emission for Dry 8 mm thick stainless steel used as emission factor **40 g/min**. Converted to	
PM-2.5 =	0.000705	0.000705	lb/in	lb/in emission factor based on cutting speed. See notes at bottom of page.	
Sulfur =	-	-		Assumes that "fumes" are PM, PM10, and PM2.5, and that they are equal.	
SO_2 =	-	-			
NO_x =	0.0001988	0.0001988	lb/in	Source same as above. Assume worst-case emission for mild steel 8 mm thick. Emission factor of **5.5 L/min** converted to lb/in emisison factor	
CO =	-	-		based on cutting speed. See notes at bottom of page. Assume 1 L NOx (as NO2) has a mass of 2.05 grams (at STP)	
VOC =	-	-			
Pb =	-	-			

	Permitted		Proposed		Comments
SCHEDULE:	0	Hrs/yr	2600	Hrs/yr	
	0	Hrs/day	10	Hrs/day	

CONTROLS: Best Operational Practice

EMISSIONS CALCULATIONS:

	PERMITTED								PROPOSED								Allowable Emission Rates (LB/hr)
Pollutant	Emission factor (lb/in)	Welding Speed (in/min)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	Calculated Uncontrolled Emission Rates (LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	Calculated Controlled Emission Rates (LB/hr)	Emission factor (lb/in)	Welding Speed (in/min)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	Calculated Uncontrolled Emission Rates (LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	Calculated Controlled Emission Rates (LB/hr)	
TSP	0.000705	125	0	0.00	0.00	99.0	0.000	0.000	0.000705	125	2600	6.87	5.29	99.0	0.069	0.053	
PM-10	0.000705	125	0	0.00	0.00	99.0	0.000	0.000	0.000705	125	2600	6.87	5.29	99.0	0.069	0.053	
PM-2.5	0.000705	125	0	0.00	0.00	99.0	0.000	0.000	0.000705	125	2600	6.87	5.29	99.0	0.069	0.053	
Sulfur	0	125	0	0.00	0.00	0.0	0.00	0.00	0.00	125	2600	0.00	0.00	0.0	0.00	0.00	
SO_2	0	125	0	0.00	0.00	0.0	0.00	0.00	0	125	2600	0.00	0.00	0.0	0.00	0.00	
NO_x	0.0001988	125	0	0.00	0.00	0.0	0.00	0.00	0.0001988	125	2600	1.94	1.49	0.0	1.94	1.49	
CO	0	125	0	0.00	0.00	0.0	0.00	0.00	0	125	2600	0.00	0.00	0.0	0.00	0.00	
VOC	0	125	0	0.00	0.00	0.0	0.00	0.00	0	125	2600	0.00	0.00	0.0	0.00	0.00	
Pb	-	125	0	0.0000	0.0000	0.0	0.0000	0.0000	-	125	2600	0.0000	0.0000	0.0	0.0000	0.0000	
HAZARDOUS AIR POLLUTANTS (HAPs)																	
As	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Be	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Cd	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Cr	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Pb	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Hg	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Mn	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Ni	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Se	NA	125	0	NA	NA	0.0	NA	NA	NA	125	2600	NA	NA	0.0	NA	NA	
Benzene	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Toluene	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Xylenes	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
1,3-Butadiene	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Formaldehyde	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Acetaldehyde	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Acrolein	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	
Napthalene	NA	125	0	NA	NA	0.0	NA	NA	0.00E+00	125	2600	0.000000	0.000000	0.0	0.000000	0.000000	

NOTES:

PM emissions are determined using mass per time emission factor, but also by creating an inch based emission factor 40 g/min ÷ 125 in/min÷ 453.59 g/lb = 0.000705 lb/in PM emissions.

NOx emissions are determined by using gas volume per time emission factor and mass conversion, but also by creating an inch based emission factor 5.5 L/min x 2.05 g/L (NO2 mass conversion) ÷ 125 in/min ÷ 453.59 g/lb = 0.0001988 lb/in NOx emissions.

Both emission factors are applied to the material throughput rate (inches cut per hour) to calculate emissions in lb/hr. Annual emissions are then calculated by multiplying the lb/hr emission rate by the annual operating hours.

S2.XXX
Plasma Cutting Building 49-9

Change in emissions (Proposed - permitted)

Pollutant	ton/yr	lb/hr
CRITERIA POLLUTANTS		
PM	0.069	0.053
PM-10	0.069	0.053
PM-2.5	0.069	0.053
Sulfur	NA	NA
SO_2	NA	NA
NO_x	1.94	1.49
CO	NA	NA
VOC	NA	NA
Pb	NA	NA
HAZARDOUS AIR POLLUTANTS (HAPs)		
As	NA	NA
Be	NA	NA
Cd	NA	NA
Cr	NA	NA
Pb	NA	NA
Hg	NA	NA
Mn	NA	NA
Ni	NA	NA
Se	NA	NA
Benzene	NA	NA
Toluene	NA	NA
Xylenes	NA	NA
1,3-Butadiene	NA	NA
Formaldehyde	NA	NA
Acetaldehyde	NA	NA
Acrolein	NA	NA
Napthalene	NA	NA

S2.XXX
Airblast AFC Blast Booth

	Permitted	Proposed	Comments
NUMBER OF UNITS:	0	1	Equipment includes a blast booth enclosure and integrated fume collector control; assume minimum 90% efficiency to be conservative until actual is known. Actual is expected to be 99+%.
SYNOPSIS:	Self contained abrasive blast booth located outside Building 104-3.		This is a weather proof cargo container enclosure.

PHYSICAL SPECS:

	UTM Eastern Coordinate (km)	UTM Northern Coordinate (km)
Point Source Location:	360507	4265994

Stack Parameters:	
Stack Height =	10 (ft)
Stack Diameter =	1.5 (ft)
Stack Flow Rate =	4,000 (acfm)
Stack Velocity =	37.7 (ft/s)
Stack Temperature =	88 (F)

VARIABLES:		Permitted		Proposed		Comments
	Input Rate =		Ton/hr	1.0	Ton/hr	2,000 lb/hr steel/aluminum cases and components for blast processing. Assume stack exhaust is 88° F (68° room temperature plus 20° to account for frictional heat)

FACTORS:

Pollutant	Permitted Emission Factor	Units	Proposed Emission Factor	Units	Source	Comments
TSP =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
PM-10 =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
PM-2.5 =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
Sulfur =	NA		NA			
SO_2 =	NA		NA			
NO_x =	NA		NA			
CO =	NA		NA			
VOC =	NA		NA			
Pb =	NA		NA			

SCHEDULE:	Permitted		Proposed		Comments
	0	Hrs/yr	2600	Hrs/yr	
	0	Hrs/day	10	Hrs/day	

CONTROLS: Integrated Dust Collection Module

EMISSIONS CALCULATIONS:

Pollutant	PERMITTED Emission Factor (gr/dscf)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	(LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	(LB/hr)	PROPOSED Emission factor (gr/dscf)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	(LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	(LB/hr)	Allowable Emission Rates (LB/hr)
TSP	0.02	0	NA	NA	90.0	NA	NA	0.02	2600	0.89	0.69	90.0	0.089	0.069	
PM-10	0.02	0	NA	NA	90.0	NA	NA	0.02	2600	0.89	0.69	90.0	0.089	0.069	
PM-2.5	0.02	0	NA	NA	90.0	NA	NA	0.02	2600	0.89	0.69	90.0	0.089	0.069	
Sulfur	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
SO_2	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
NO_x	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
CO	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
VOC	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
Pb	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
HAZARDOUS AIR POLLUTANTS (HAPs)															
As	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Be	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cr	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mn	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ni	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Se	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Formaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Napthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES:

S2.XXX
Airblast AFC Blast Booth

Change in emissions (Proposed - permitted)

Pollutant	ton/yr	lb/hr
CRITERIA POLLUTANTS		
PM	0.089	0.069
PM-10	0.089	0.069
PM-2.5	0.089	0.069
Sulfur	NA	NA
SO_2	NA	NA
NO_x	NA	NA
CO	NA	NA
VOC	NA	NA
Pb	NA	NA
HAZARDOUS AIR POLLUTANTS (HAPs)		
As	NA	NA
Be	NA	NA
Cd	NA	NA
Cr	NA	NA
Pb	NA	NA
Hg	NA	NA
Mn	NA	NA
Ni	NA	NA
Se	NA	NA
Benzene	NA	NA
Toluene	NA	NA
Xylenes	NA	NA
1,3-Butadiene	NA	NA
Formaldehyde	NA	NA
Acetaldehyde	NA	NA
Acrolein	NA	NA
Napthalene	NA	NA

S2.048
Pangborn Blast Booth, Model LK-4, Serial 6LK4-711

	Permitted	Proposed	Comments
NUMBER OF UNITS:	1	0	This unit was never installed, it was removed from the permit during August 2026 permit revision application.

SYNOPSIS: This is an abrasive blaster.

PHYSICAL SPECS:

	UTM Eastern Coordinate (km)	UTM Northern Coordinate (km)
Point Source Location:	359.025	4270.218

Stack Parameters:

Stack Height =	24 (ft)	
Stack Diameter (rectangular) =	8 x 8 (in)	Dh = 8
Stack Flow Rate =	1,528 (acfm)	
Stack Flow Rate =	1,814 (scfm)	
Stack Velocity =	57.3 (ft/s)	
Stack Temperature =	Ambient (F)	

VARIABLES:		Permitted		Proposed		Comments
	Input Rate =	16.0	Ton/hr	0.0	Ton/hr	

FACTORS:

Pollutant	Permitted Emission Factor	Units	Proposed Emission Factor	Units	Source	Comments
TSP =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
PM-10 =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
PM-2.5 =	0.02	gr/dscf	0.02	gr/dscf	NDEP grain load default value in gr/dscf	
Sulfur =	NA		NA			
SO_2 =	NA		NA			
NO_x =	NA		NA			
CO =	NA		NA			
VOC =	NA		NA			
Pb =	NA		NA			

SCHEDULE:	Permitted		Proposed		Comments
	2080	Hrs/yr Hrs/day		Hrs/yr Hrs/day	Equates to 33,280 ton/yr

CONTROLS: Bin Vent Filter

EMISSIONS CALCULATIONS:

	PERMITTED							PROPOSED							
Pollutant	Emission Factor (gr/dscf)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	(LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	(LB/hr)	Emission factor (gr/dscf)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	(LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	(LB/hr)	Allowable Emission Rates (LB/hr)
TSP	0.02	2080	0.32	0.31	0.0	0.323	0.311	0.02		0.00	0.00	0.0	0.00	0.00	
PM-10	0.02	2080	0.32	0.31	0.0	0.323	0.311	0.02		0.00	0.00	0.0	0.00	0.00	
PM-2.5	0.02	2080	0.32	0.31	0.0	0.323	0.311	0.02		0.00	0.00	0.0	0.00	0.00	
Sulfur	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
SO_2	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
NO_x	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
CO	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
VOC	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
Pb	NA		NA	NA		NA	NA	NA		NA	NA		NA	NA	
HAZARDOUS AIR POLLUTANTS (HAPs)															
As	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Be	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cr	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mn	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ni	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Se	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Formaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Napthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES: This unit was never installed and was removed during August 2026 permit revision application

S2.048
Pangborn Blast Booth, Model LK-4, Serial 6LK4-711

Change in emissions (Proposed - permitted)

Pollutant	ton/yr	lb/hr
CRITERIA POLLUTANTS		
PM	-0.323	-0.311
PM-10	-0.323	-0.311
PM-2.5	-0.323	-0.311
Sulfur	NA	NA
SO_2	NA	NA
NO_x	NA	NA
CO	NA	NA
VOC	NA	NA
Pb	NA	NA
HAZARDOUS AIR POLLUTANTS (HAPs)		
As	NA	NA
Be	NA	NA
Cd	NA	NA
Cr	NA	NA
Pb	NA	NA
Hg	NA	NA
Mn	NA	NA
Ni	NA	NA
Se	NA	NA
Benzene	NA	NA
Toluene	NA	NA
Xylenes	NA	NA
1,3-Butadiene	NA	NA
Formaldehyde	NA	NA
Acetaldehyde	NA	NA
Acrolein	NA	NA
Napthalene	NA	NA

S2.049
Surface Coating Booth, Model and Serial # unknown, Bldg. 103-5

	Permitted	Proposed	Comments
NUMBER OF UNITS:	1	0	This paint booth was added during the 2010 sig revison, but was never installed. It was removed from the permit during August 2026 permit revision application

SYNOPSIS: This is a surface coating booth used for painting operations
96% control efficiency from water curtain

		Permitted		Proposed		Comments
VARIABLES:	Input Rate =	1680	Gal/yr	0	Gal/yr	

PHYSICAL SPECS:

	UTM Eastern Coordinate (km)	UTM Northern Coordinate (km)
Point Source Location:	359.04	4270.238

Stack Parameters:	
Stack Height =	15 (ft)
Stack Diameter =	18 (in)
Stack Flow Rate =	(acfm)
Stack Velocity =	23.6 (ft/s)
Stack Temperature =	69.5 (F)

FACTORS:

Pollutant	Permitted Emission Factor		Proposed Emission Factor	Units	Source	Comments
TSP =	1.4	lb/gal	1.4	lb/gal	Assume 40% of the paint weight is TSP, a transfer efficiency of 75%, and worst case paint density of 14 lb/gal. (14 lb/gal x 0.40 x 0.25 = 1.4 lb/gal)	
PM-10 =	0.7	lb/gal	0.7	lb/gal	Assume 50% of TSP is PM10.	
PM-2.5 =	0.7	lb/gal	0.7	lb/gal	Assume 50% of TSP is PM2.5.	
Sulfur =	NA		NA			
SO_2 =	NA		NA			
NO_x =	NA		NA			
CO =	NA		NA			
VOC =	6	lb/gal	6	lb/gal	Per HWAD's worst case scenario from inventory specifications	
Pb =	NA		NA			

	Permitted		Proposed		Comments
SCHEDULE:	2080	Hrs/yr		Hrs/yr	
		Hrs/day		Hrs/day	

CONTROLS: Water Curtain

EMISSIONS CALCULATIONS:

Pollutant	PERMITTED Emission Factor (LB/gal)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	Calculated Uncontrolled Emission Rates (LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	Calculated Controlled Emission Rates (LB/hr)	PROPOSED Emission factor (LB/gal)	Annual Operating Hrs (Hrs/yr)	Calculated Uncontrolled Emission Rates (Ton/yr)	Calculated Uncontrolled Emission Rates (LB/hr)	Assumed Percent Efficiency (%)	Calculated Controlled Emission Rates (Ton/yr)	Calculated Controlled Emission Rates (LB/hr)	Allowable Emission Rates (LB/hr)
TSP	1.4	2080	1.18	1.13	96.0	0.047	0.045	1.4		0.00	0.00	96.0	0.000	0.000	
PM-10	0.7	2080	0.59	0.57	96.0	0.024	0.023	0.7		0.00	0.00	96.0	0.000	0.000	
PM-2.5	0.7	2080	0.59	0.57	96.0	0.024	0.023	0.7		0.00	0.00	96.0	0.000	0.000	
Sulfur	NA	2080	NA	NA		NA	NA	0.00		NA	NA		NA	NA	
SO_2	NA	2080	NA	NA		NA	NA	NA		NA	NA		NA	NA	
NO_x	NA	2080	NA	NA		NA	NA	NA		NA	NA		NA	NA	
CO	NA	2080	NA	NA		NA	NA	NA		NA	NA		NA	NA	
VOC	6	2080	5.04	4.85	0.0	5.04	4.85	6		0.00	0.00	0.0	0.00	0.00	
Pb	NA	2080	NA	NA		NA	NA	NA		NA	NA		NA	NA	
HAZARDOUS AIR POLLUTANTS (HAPs)															
As	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Be	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cd	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cr	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mn	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ni	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Se	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toluene	0.30	2080	0.25	0.24	NA	0.25	0.24	0.30		NA	NA	NA	NA	NA	
Xylenes	1.50	2080	1.26	1.21	NA	1.26	1.21	1.50		NA	NA	NA	NA	NA	
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Formaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetaldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Napthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES: Permitted values are based on values for the S2.037 unit. Emission factors were determined as stated above.
This unit was never installed. It was removed from the permit during August 2026 permit revision application.

S2.049

Surface Coating Booth, Model and Serial # unknown, Bldg. 103-5

Change in emissions (Proposed - permitted)

Pollutant	ton/yr	lb/hr
CRITERIA POLLUTANTS		
PM	-0.047	-0.045
PM-10	-0.024	-0.023
PM-2.5	-0.024	-0.023
Sulfur	NA	NA
SO_2	NA	NA
NO_x	NA	NA
CO	NA	NA
VOC	-5.04	-4.846
Pb	NA	NA
HAZARDOUS AIR POLLUTANTS (HAPs)		
As	NA	NA
Be	NA	NA
Cd	NA	NA
Cr	NA	NA
Pb	NA	NA
Hg	NA	NA
Mn	NA	NA
Ni	NA	NA
Se	NA	NA
Benzene	NA	NA
Toluene	-0.252000	-0.242308
Xylenes	-1.260000	-1.211538
1,3-Butadiene	NA	NA
Formaldehyde	NA	NA
Acetaldehyde	NA	NA
Acrolein	NA	NA
Napthalene	NA	NA

HWAD Permit Revison Change in Emissions

Pollutant	Permitted		Proposed		Change in Emissions	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Criteria Pollutants						
TSP	0.356	0.370	0.121	0.158	-0.235	-0.213
PM-10	0.334	0.347	0.121	0.158	-0.212	-0.189
PM-2.5	0.334	0.347	0.121	0.158	-0.212	-0.189
Sulfur	NA	NA	NA	NA	0.000	0.000
SO_2	NA	NA	NA	NA	0.000	0.000
NO_x	NA	NA	1.491	1.9383	1.49	1.94
CO	NA	NA	NA	NA	0.00	0.00
VOC	4.85	5.04	NA	NA	-4.85	-5.04
Pb	NA	NA	NA	NA	0.00	0.00
Hazardous Air Pollutants						
As	NA	NA	NA	NA	0.00	0.00
Be	NA	NA	NA	NA	0.00	0.00
Cd	NA	NA	NA	NA	0.00	0.00
Cr	NA	NA	NA	NA	0.00	0.00
Pb	NA	NA	NA	NA	0.00	0.00
Hg	NA	NA	NA	NA	0.00	0.00
Mn	NA	NA	NA	NA	0.00	0.00
Ni	NA	NA	NA	NA	0.00	0.00
Se	NA	NA	NA	NA	0.00	0.00
Benzene	NA	NA	NA	NA	0.00	0.00
Toluene	0.242	0.252	NA	NA	-0.242	-0.252
Xylenes	1.212	1.260	NA	NA	-1.212	-1.260
1,3-Butadiene	NA	NA	NA	NA	0.00	0.00
Formaldehyde	NA	NA	NA	NA	0.00	0.00
Acetaldehyde	NA	NA	NA	NA	0.00	0.00
Acrolein	NA	NA	NA	NA	0.00	0.00
Napthalene	NA	NA	NA	NA	0.00	0.00

APPENDIX 3

Plasma Cutter and Blast Booth Summaries, Inclusive of Specification Sheets

Plasma Cutter Information

The plasma cutter is housed in an enclosed cargo container. The cargo container will be installed INSIDE building 49-9. The plasma cutter cargo container system is equipped with an integral fume collector that exhausts through a stack and outside the building. The plasma cutter brochure and fume collector information are included in the following pages, after the photos.

- Hypertherm MaxPro200 plasma cutter (P/N: 078612)
- Equipped with a PSF 3200 fume collector (see drawing PSF-012215, for specs)
- The final stack height from ground level will be 18 ft.
- The stack exhaust diameter will be 18 inches.
- The stack temperature will be 88*F, assumes ambient (68* room temperature in cutting area) + 20* to account for additional heat from plasma cutting.
- The stack flow will be 3,200 acfm, with a resulting calculated velocity of 1,811.7 fpm (30.2 ft/s) for an 18-inch diameter.
- Assume 10 hr/day and 2600 hr/yr operating hours. Operating between 7a m -5pm.
- Assume a max cutting speed of 125 in/min resulting in a max 7,500 in/hr and 19,500,000 in/yr cuts.
- S/N A0221, Asset tag number U.S.N Property 00253M8033

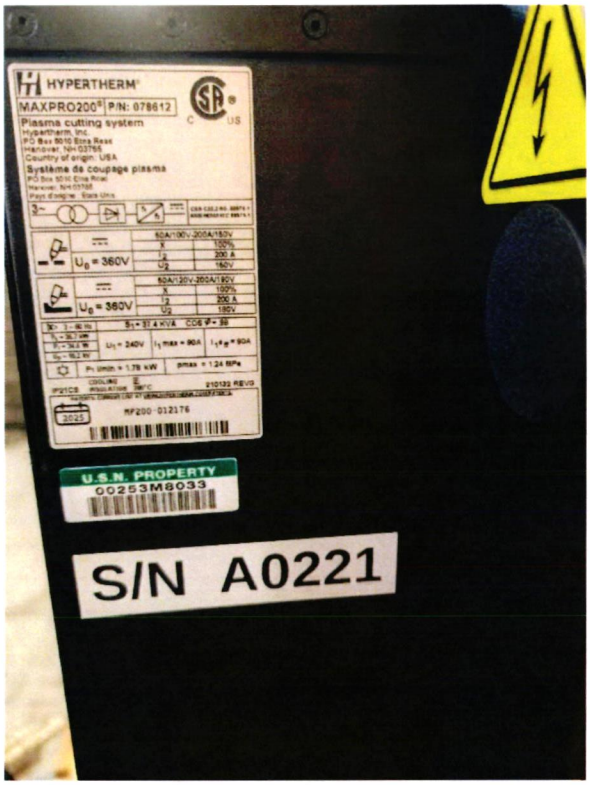


Photo 1: Plasma Cutter Name Plate



Photo 2: Plasma Cutter System Enclosure – will be installed inside building 49-9.



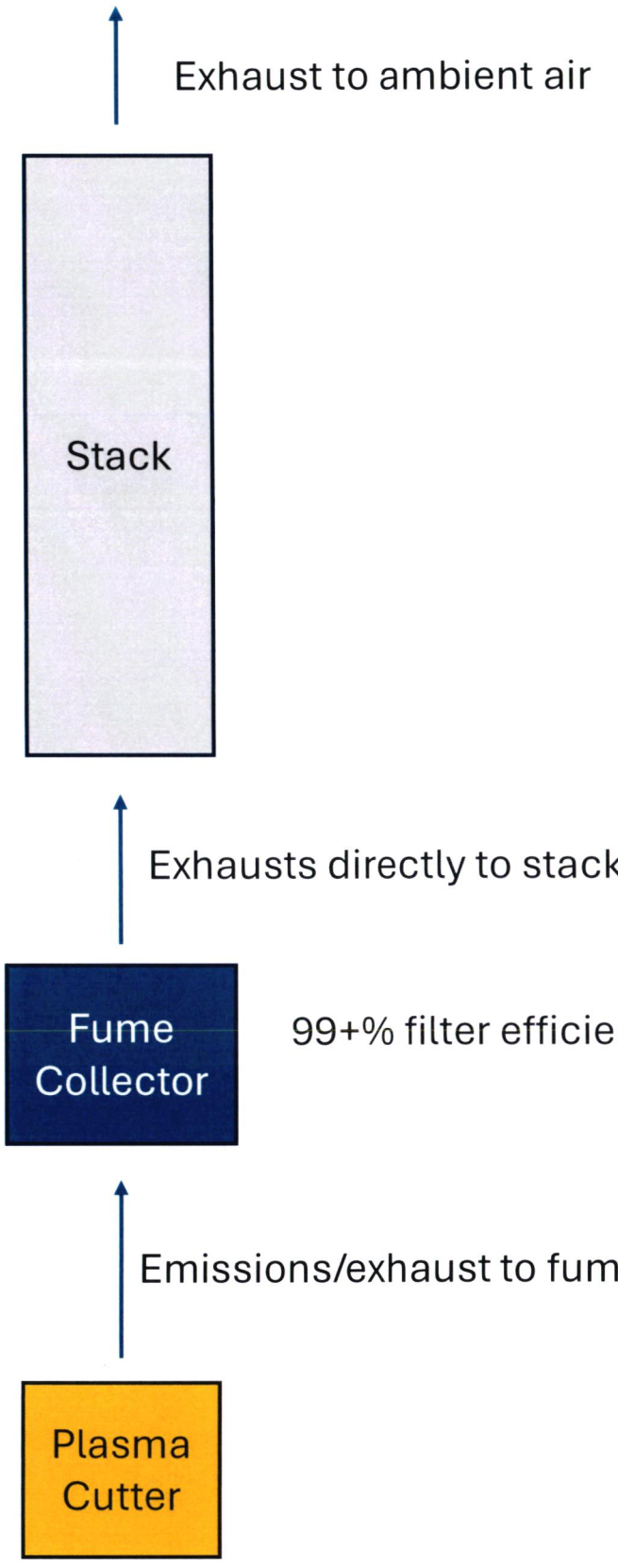
Photo 3: Plasma Cutting Bay



Photo 4: Integral Fume Collector



Photo 5: Nano fiber, fire retardant filter efficiency 99.9% @ 0.5 micron, merv 15

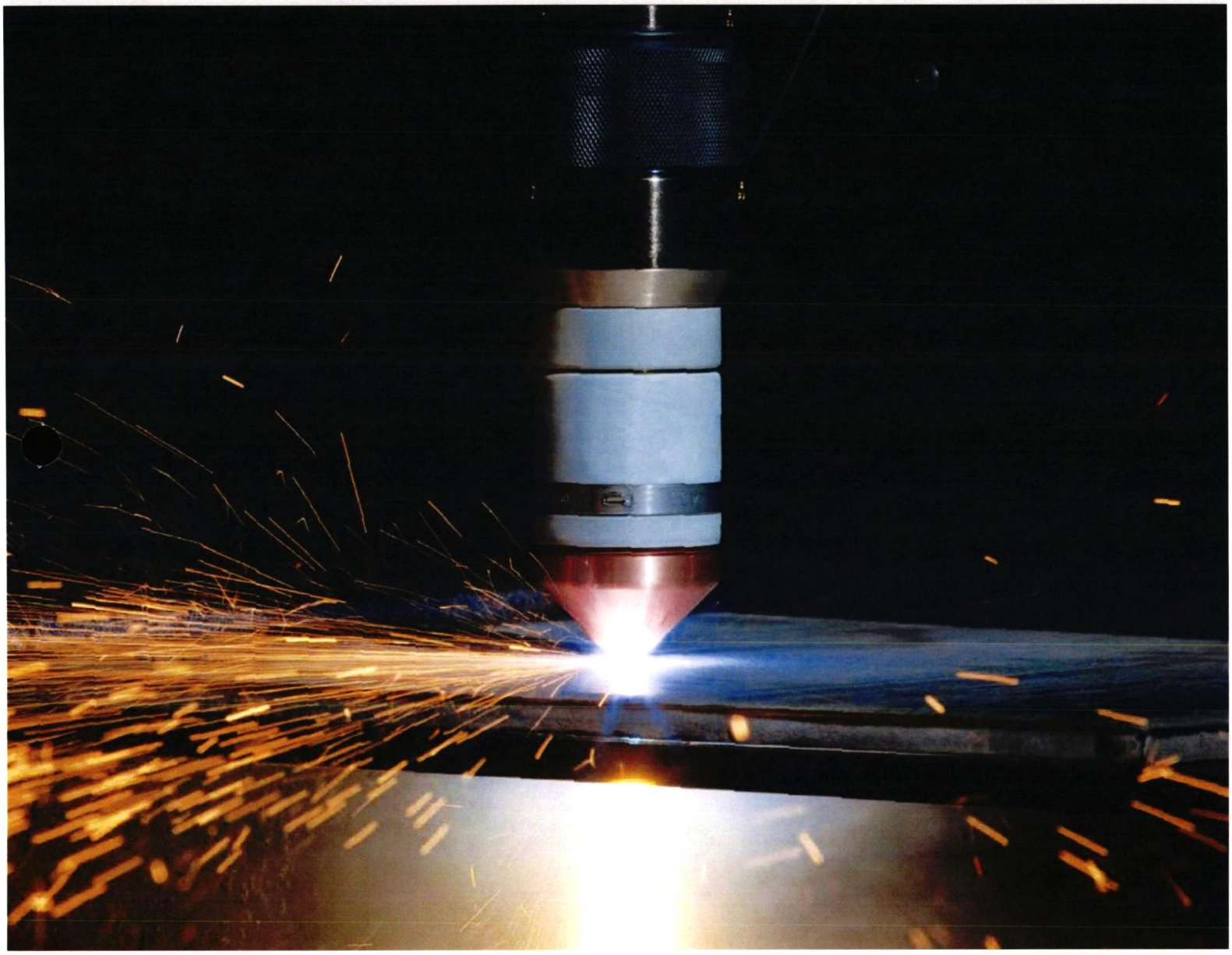


Plasma Cutter Process Flow

HYPERTHERM
A Hypertherm Associates Brand

MAXPRO200®

LongLife® air and oxygen plasma cutting system

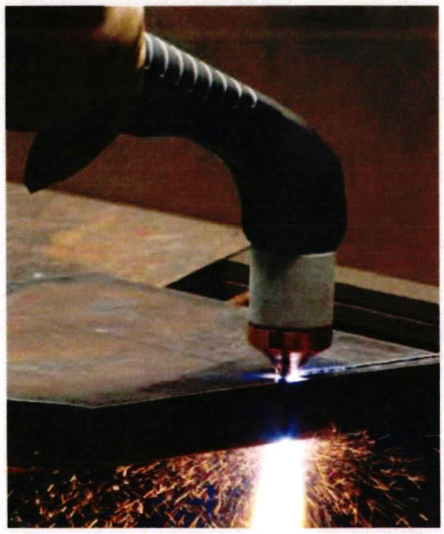


Maximized productivity. Easy operation. Reliable performance.

MAXPRO200







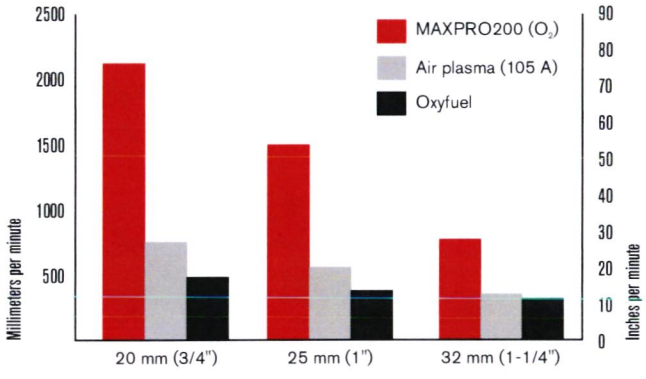
The MAXPRO200® plasma cutting system achieves impressive cut speeds, consistent cut quality and exceptional consumable life with air or oxygen plasma gas. Optimized cutting parameters are automatically set and controlled in one step for easy operation. Engineered for heavy-duty, high capacity mechanized and handheld cutting and gouging, the MAXPRO200 delivers reliable performance across a wide range of industrial applications.

Maximized productivity

MAXPRO200 combines fast cutting speeds and quick process changes to maximize productivity.

- The fastest cut speeds in its class produce more finished parts per hour.
- Engineered with 100% duty cycle for the most demanding production environments.
- Quickly transition between cutting, gouging, mechanized and handheld processes with automatic settings, tool free leads and quick disconnect torches.

Fast cutting speeds = maximum productivity

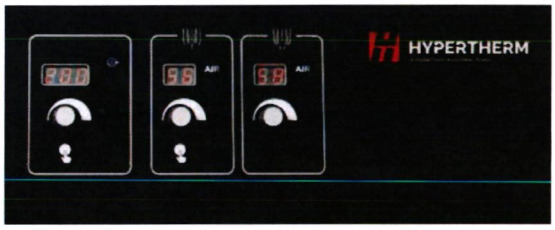




Easy operation

The easiest plasma system in its class for air and oxygen plasma cutting—easy to install, easy to operate, easy to maximize performance.

- Intuitive one step interface and automatic gas control deliver consistent results without operator intervention.



- Advanced diagnostics simplify troubleshooting and service.
- Optional serial communications allow full control of the system from the CNC.

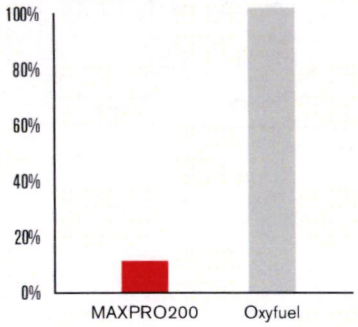
Step up to a superior technology

MAXPRO200® vs. oxyfuel

Cut speeds and pierce times are as much as 7 times faster for maximized productivity.

- Significantly lowers operating cost per part up to 50 mm (2").
- Less dross, less warping, and a smaller heat-affected zone to minimize high-cost secondary operations.
- Increases flexibility to cut and gouge mild steel, stainless steel, aluminum, and stacked, painted or rusted metal.
- Improves mild steel cutting safety over the use of acetylene, a highly flammable gas used for oxyfuel cutting.

Ten times lower cost per meter (foot)





Low operating cost

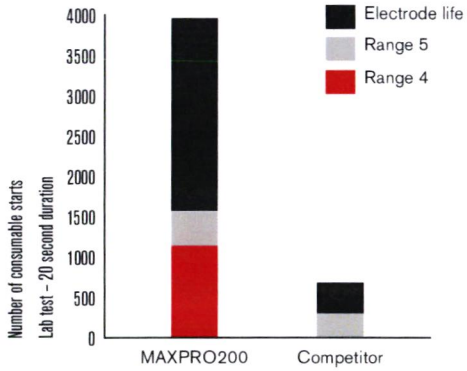
Exceptional consumable life and consistent performance deliver more cost-effective results.

- Do more with less power: patented consumable designs enable best in class cut speeds and robust production piercing using lower amperage levels.
- Superior cut quality and consistency minimize high cost secondary operations.
- Advanced consumable technologies including LongLife®, CoolFlow™ and TrueFlow™ significantly increase consumable life to reduce cost per part.

Longer consumable life = more cost effective

12 mm (1/2") mild steel

200 A Air/Air



Reliable performance

Engineered and tested using the same proven design process as the HyPerformance® HPRXD® product family for superior reliability in the most demanding cutting environments.

- During development, Hypertherm systems endure rigorous reliability testing procedures equivalent to years of use in extreme operating environments.
- The MAXPRO200 is built with less than half the number of internal parts compared to other systems on the market. Fewer parts provide greater reliability and serviceability.
- Self-diagnostics are performed automatically at startup and continually throughout the cutting process.

MAXPRO200 65° handheld torch

MAXPRO200 90° handheld torch

MAXPRO200 straight machine torch

MAXPRO200 quick-disconnect machine torch



Specifications

Input voltages	200/208 VAC, 3-PH, 50–60 Hz, 108/104 A 220 VAC, 3-PH, 50–60 Hz, 98 A 240 VAC, 3-PH, 60 Hz, 90 A 380 VAC, 3-PH, 50 Hz, 57 A 400 VAC, CE, 3-PH, 50–60 Hz, 54 A 415 VAC, CE, 3-PH, 50 Hz, 52 A 440 VAC, 3-PH, 50–60 Hz, 49 A 480 VAC, 3-PH, 60 Hz, 45 A 600 VAC, 3-PH, 60 Hz, 36 A
Output voltage	50–165 VDC
Maximum output current	200 A
Duty cycle rating	100% @ 33 kW, at 40° C (104° F)
Operating temperature	-10° C to 40° C (+14° F to +104° F)
Power factor	0.98 @ 33 kW output
Maximum OCV	360 VDC
Dimensions	102 cm (40.14") H, 69 cm (27.12") W, 105 cm (41.23") L
Weight	335 kg (740 lbs)
Gas supply **Plasma gas** **Shield gas** **Supply gas pressure**	 Air, O_2, N_2 Air, N_2 6.2 +/- 0.7 bar (90 +/- 10 psig)

Handheld torch and gouging

- 200 A handheld torch capable of cutting up to 75 mm (3") for demolition, scrapping and other heavy-duty cutting demands.
- Drag-cutting consumables make it easy to follow a line or template.
- Metal removal rate on mild steel up to 18.7 kg/hr (41.2 lbs/hr).
- Plasma gouging can replace grinding or carbon arc gouging for many metal-removal applications. Plasma gouging produces less noise and fumes than carbon arc gouging and avoids risks of metallurgic problems from carbon contamination.

Operating data

Virtually dross-free cutting capacity – mild steel	20 mm (3/4")
Production pierce capacity – mild steel	32 mm (1-1/4")
Severance* – mild steel	75 mm (3")
Bevel – 200 amp consumables support 45° bevel capability	

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel					
Air plasma	50	1	8050	20 ga	325
Air shield		3	3760	0.135	110
Air plasma	130	6	3865	1/4	150
Air shield		12	2045	1/2	75
Air plasma	200	6	4885	1/4	190
Air shield		12	2794	1/2	110
		20	1415	3/4	60
		25	940	1	35
		32	630	1-1/4	25
		50	215	2	8
O_2 plasma	50	1	6775	20 ga	270
Air shield		3	3650	0.135	130
O_2 plasma	130	6	3925	1/4	150
Air shield		12	2200	1/2	80
O_2 plasma	200	6	6210	1/4	235
Air shield		12	3415	1/2	130
		20	1920	3/4	80
		25	1430	1	55
		32	805	1-1/4	32
		50	270	2	10
Stainless steel					
N_2 plasma	200	12	2260	1/2	80
N_2 shield		20	1190	3/4	50
Air plasma	200	12	3320	1/2	120
Air shield		20	1440	3/4	60
Aluminum					
N_2 plasma	200	12	3370	1/2	125
N_2 shield		20	1630	3/4	70
Air plasma	200	12	3370	1/2	125
Air shield		20	1625	3/4	70

The thickness that can be severed at approximately 125 mm/min (5 ipm) with reduced cut quality. Cutting at severance thickness should be infrequent.

Cut with confidence

- Hypertherm Associates is ISO 9001: 2000 registered.
- Hypertherm Associates' full-system warranty provides complete coverage for one year on the torch and leads and two years on all other system components.
- Hypertherm plasma power supplies are engineered to deliver industry leading energy efficiency and productivity with power efficiency ratings of 90% or greater and power factors up to 0.98. Extreme energy efficiency, long consumable life, and lean manufacturing lead to the use of fewer natural resources and a reduced environmental impact.

Learn more at www.hypertherm.com

Unless otherwise noted in the collateral, all trademarks are property of Hypertherm, Inc. and may be registered in the United States and/or other countries.

Please visit www.hypertherm.com/patents for more details about Hypertherm Associates patent numbers and types.

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As 100% Associate owners, we are all focused on delivering a superior customer experience. www.hyperthermassociates.com/ownership

Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment

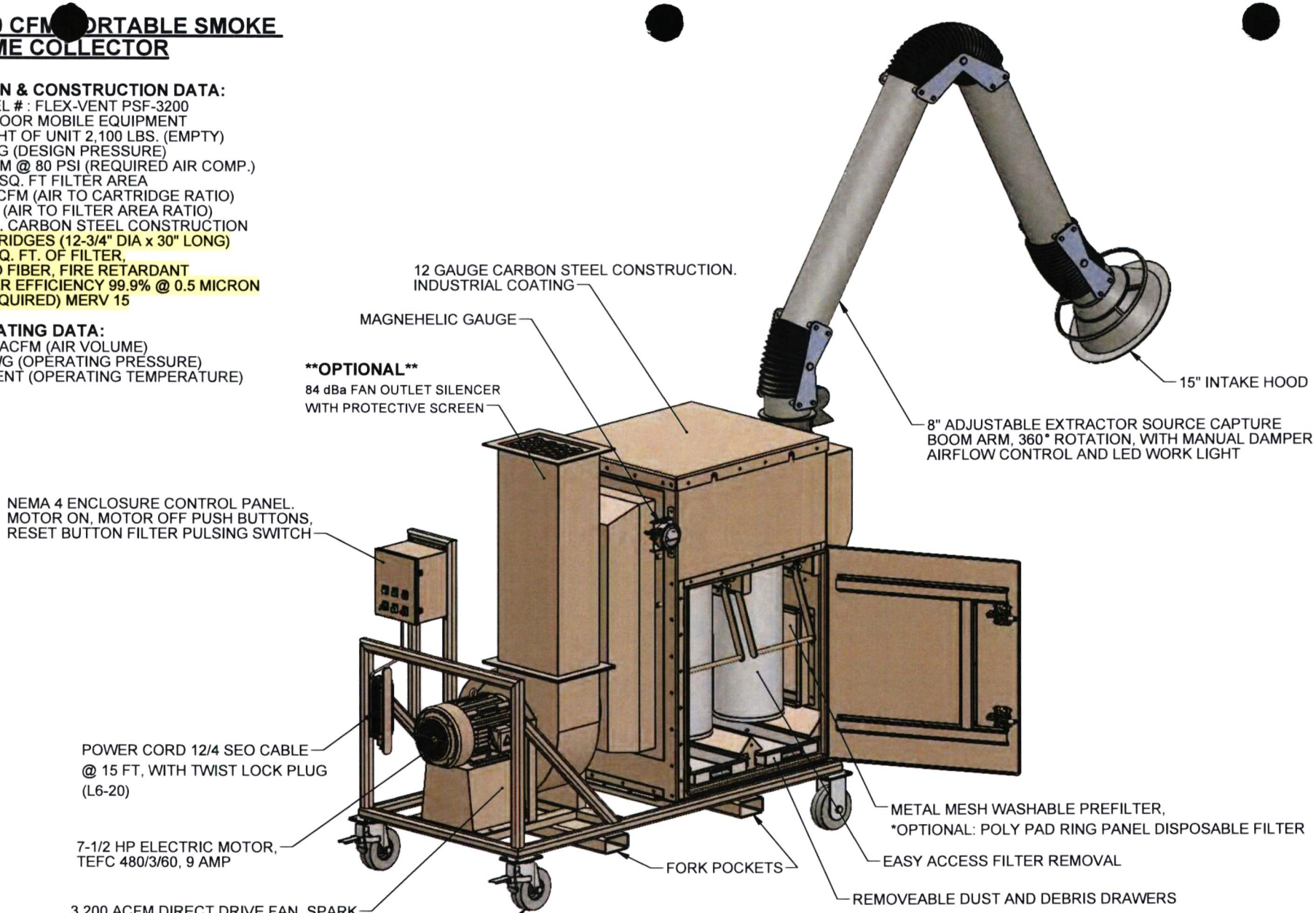
100% Associate-owned Greener Cuts

HYPERTHERM ASSOCIATES

3,200 CFM PORTABLE SMOKE / FUME COLLECTOR

DESIGN & CONSTRUCTION DATA:
* MODEL # : FLEX-VENT PSF-3200
* OUTDOOR MOBILE EQUIPMENT
* WEIGHT OF UNIT 2,100 LBS. (EMPTY)
* 17" WG (DESIGN PRESSURE)
* 6 SCFM @ 80 PSI (REQUIRED AIR COMP.)
* 1,040 SQ. FT FILTER AREA
* 800 ACFM (AIR TO CARTRIDGE RATIO)
* 3.00/1 (AIR TO FILTER AREA RATIO)
* 12 GA. CARBON STEEL CONSTRUCTION
* CARTRIDGES (12-3/4" DIA x 30" LONG)
  260 SQ. FT. OF FILTER,
  NANO FIBER, FIRE RETARDANT
  FILTER EFFICIENCY 99.9% @ 0.5 MICRON
  (4 REQUIRED) MERV 15

OPERATING DATA:
* 3,200 ACFM (AIR VOLUME)
* 7.5" WG (OPERATING PRESSURE)
* AMBIENT (OPERATING TEMPERATURE)



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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/16
ANGULAR: MACH ±.5 BEND ±1
TWO PLACE DECIMAL ±.06
THREE PLACE DECIMAL ±.030

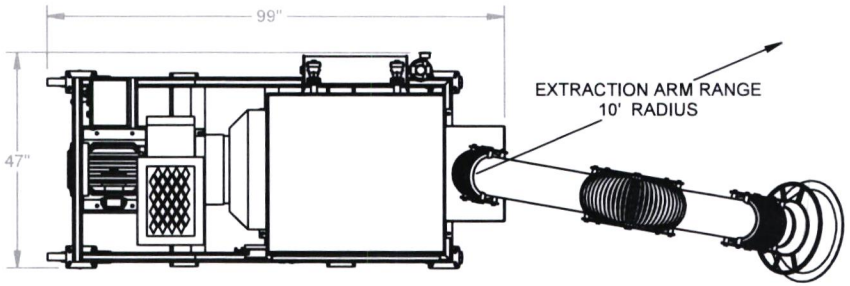
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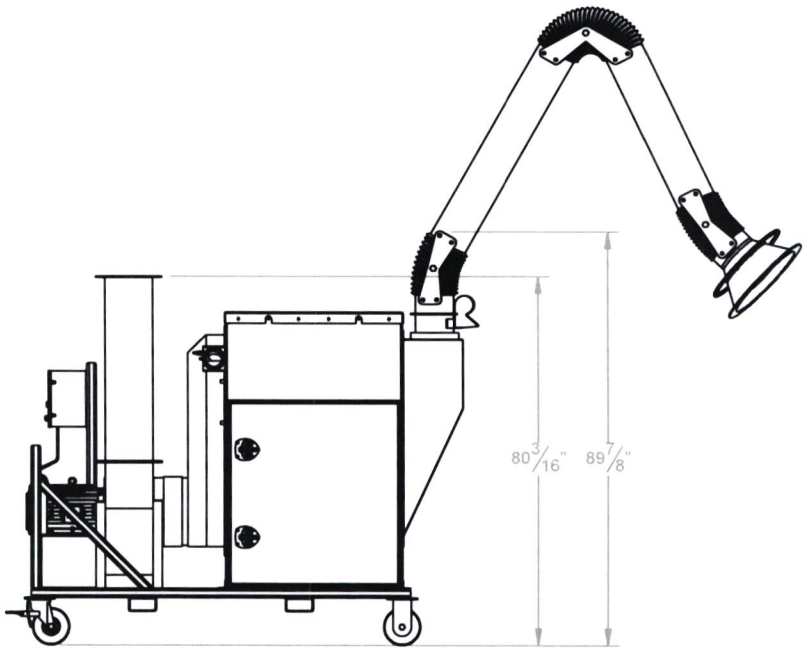
INDUSTRIAL VACUUM

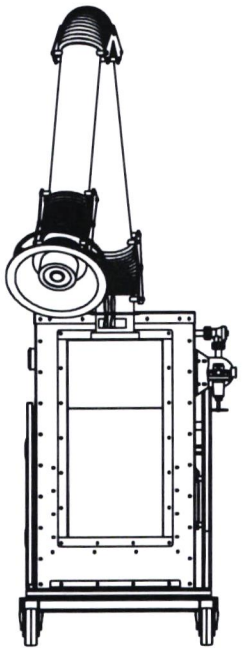
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PSF-3200 PORTABLE SMOKE / FUME COLLECTOR

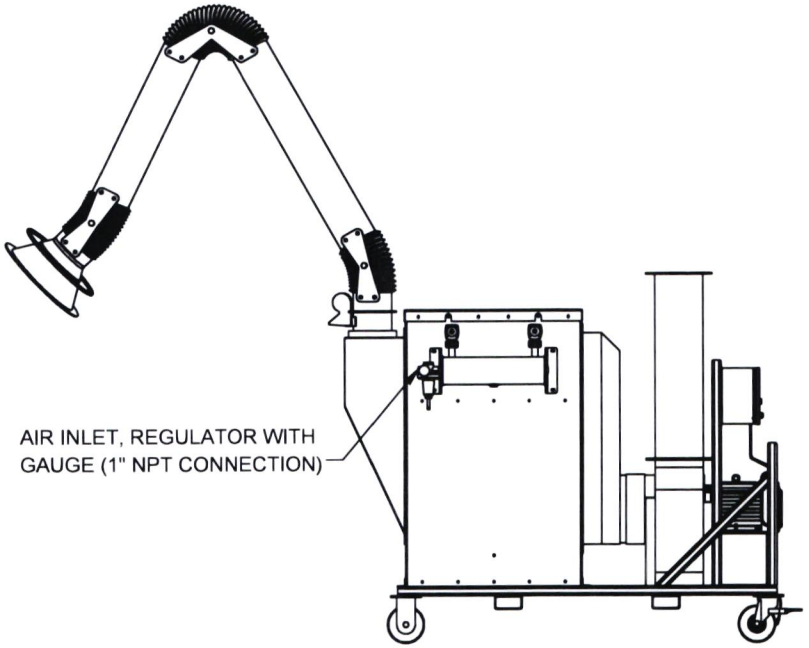
DRAWING. NO. PSF-012215

REV -









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TWO PLACE DECIMAL ±.06
THREE PLACE DECIMAL ±.030

	NAME	DATE
DRAWN	TMM	01.15.22
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SHEET 2 OF 2

INDUSTRIAL VACUUM

DESCRIPTION:
PSF-3200 PORTABLE
SMOKE / FUME COLLECTOR

DRAWING. NO. PSF-012215

REV -

Blast booth:

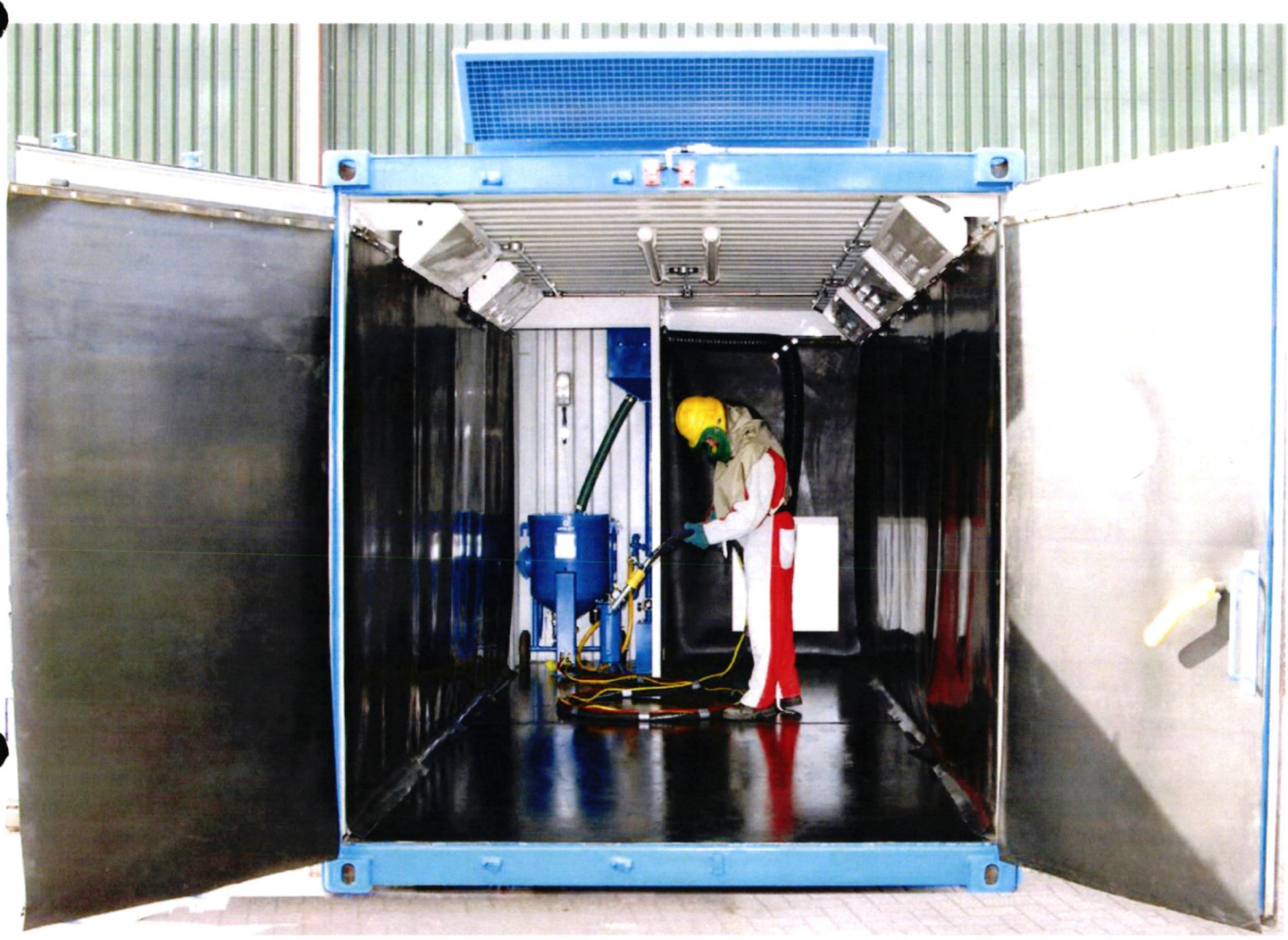
The blast booth is housed in an enclosed cargo container. The cargo container will be installed near building 104-3. The blast booth cargo container system is equipped with an integral fume collector that exhausts through a stack. The blast booth brochure and information are included in the following pages.

- Cargo container unit will be placed outside near building 104-3
- Assume emissions based on NDEP default grain loading value of 0.02 gr/dscfm
- Assume initial filter system control efficiency of at least 90% for conservatism, actual to be determined but is expected to be 99.5+%.
- Stack height will be 10ft and stack diameter will be 18 inches.
- Stack flow is 4,000 acfm based on proposal/spec sheet documents, resulting velocity calculated as 2,264.7 fpm (37.7 ft/s) assuming 18-inch diameter.
- The stack temperature will be 88*F, assumes ambient (68* room temperature in blasting area) + 20* to account for additional heat from friction.

World-leading Surface Preparation and Finishing Solutions

Containerized Blast Booths

AIRBLAST AFC



AIRBLAST AFC

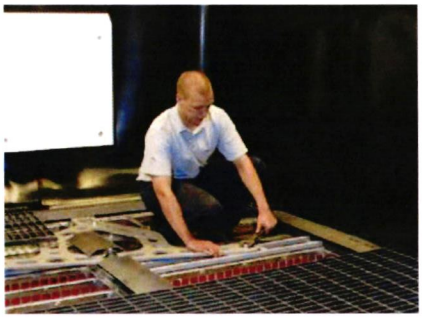
CONTAINERIZED BLAST BOOTHS

Airblast AFC containerized blast rooms are made from converted shipping containers, which provide an economical solution when a weatherproof and/or transportable blast room is required. This versatile, mass-manufactured, watertight enclosure is an ideal starting point for a blast room, particularly when it may be relocated at some point or if it is to be situated outside in the elements.

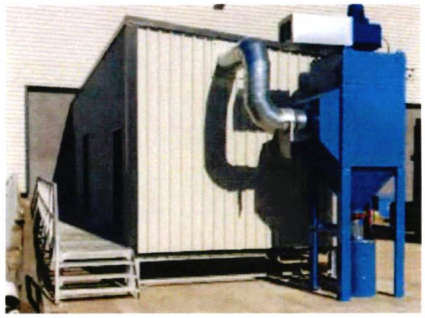
Airblast AFC re-engineers standard shipping containers to incorporate many of the same features found in our modular blast rooms. These include well designed ventilation systems, rubber curtains, purpose built light fixtures and advanced controls. Our containerized blast rooms may also be fitted with any of our media reclamation systems, ranging from our Vaculift to mini bucket elevators to full floor, automated recovery systems.

Our standard containerized blast rooms are available with inside dimensions of 8' wide x 8' high and 20' or 40' long. Generally, a section at the rear of the container measuring approx. 3' x 3' is used to house the blast machine and media reclamation system, making the Airblast AFC containerized blast room a complete, self-contained system. Where a full floor recovery system is fitted, the rear 9' is dedicated to the recovery equipment.

Containerized blast booths are available with doors at one end, both ends or side and front opening. Where required they can be clad to match adjacent buildings.








Pictures from left to right:

Overhead loading system with a full recovery floor
Full recovery floor option eliminates manual clean up
Purpose built blast proof light modules
Blast proof viewing window provided as standard
Larger tool room for full recovery floor options
Externally clad containerized blast booth
Full side opening booth option
All our containerized booths are built and tested in our factory, before dispatch, to minimize onsite install

Products and services

- Blast rooms
- Abrasive blast cabinets
- Portable blast systems
- Blast accessories
- Lighting systems
- Dust recovery equipment
- Paint spray booths
- Personal Protective Equipment
- Design and build
- Servicing
- Training
- Sample processing

Contact us

For further information on how our products and services could benefit your company, please contact us by any of the means below.

Airblast AFC
250 Airport Parkway
Oroville
California 95965

Tel (800) 331-7744
Fax (530) 533-0179
sales@airblastafc.com
www.airblastafc.com

2996 0518

EQUIPMENT PROPOSAL

AIRBLAST AFC

Quote #: D9788
Date: 3/13/2024

Bill To:

ASE-Advance Safety Equipment
5269 Cleveland Street, Suite 204
Virginia Beach, VA 23462

Ship To:

NAVSEA
Hawthorne, NV
&
Keyport, WA

2 EA API-CONTAINERIZED BLAST BOOTH-SPECIAL-ASE-DTD

Working Dimensions: 8' wide x 8' high x 15' deep
Outside Dimensions: 8.5' wide x 8.5' high x 21' deep

General Description: Blast booth will be a totally transportable adaptation of a weather-proof shipping container. Blast booth walls will be rubber lined for sound attenuation and to protect the surface. Also, the entire blast booth floor will be covered in ¼" steel plate to protect the surface. Equipment shall include a blast booth enclosure, abrasive reclaim system, integrated dust collection module, and control panel. Blast booth will be designed for a single operator.

Product Doors: Product Doors are included at one end (approximately 8'w x 8'h).

Ventilation: Blast booth shall be designed for end-to-end ventilation. Air shall flow from baffled intake plenum in ceiling at one end, through the working area and into cartridge filter modules at the opposite end of the booth. Ventilation design shall be for 50-60 feet per minute. Our cross flow high entry inlet is designed for optimized air and material distribution.

Light Fixtures: Four (4) purpose-built blast booth LED light fixtures are positioned at the eaves of the booth, angled at 45-degrees into the facility.

Abrasive Recovery System: Vaculift unit located above the blast machine recovers media from the floor hopper built into blast room when the blast cycle is complete. An air wash, powered by the powerful dust collection module, is used to separate dust and debris from clean abrasive, which is then returned to the blast pot or optional storage hopper located above the machine. Heavy contaminants are caught in a screen while the air wash transports lighter dust to the dust collector.

Blast Machine: One (1) Blast Machine. Includes a 3.5 cu. ft. blast pot with 1-1/4" piping, 150 psi (10.3 bar) rated vessel with 90-degree cone bottom head, with pneumatic remote controls, Combo Valve, VBSII System, MV3, twin line control hose, G2 Deadman control, blast hose assembly and blast nozzle.

Dust Collection Module: One (1) dust collection cartridge filter module. Module includes:
- Four (4) cartridge filters with reverse pulse cleaning
- Dust recovery bin, intake louvers
- Exhaust fan and motor, 3phase, 230/460V, up to 4,000 CFM
- 3 pulsing air valves for cartridge filter cleaning
- Louvered Doors

Dust collection module as quoted, includes no explosion control, which may be required when used with potentially combustible dust. Customer assumes responsibility for contacting their insurance underwriter and advising regarding specific application requirements of explosion venting or if additional fire protection and safety equipment may be required. Customer is also cautioned to adhere to prescribed OSHA, NFPA, Federal, State and Local codes and regulations applicable to industrial ventilation systems, which apply dust collection equipment.

Control Panel: One (1) control panel shall be factory pre-wired and tested. Individual controls shall be sequentially interlocked to ensure proper start-up of each piece of equipment.

1 EA #OPTION

Option: Side Load Doors, ADD $13,500 ea.

Product doors are included at one end (approximately 8'w x 8' h)
as well as on one side wall (approximately 15' w x 8' h).

#NOTES

1. Prices are based on equipment as specified and do not include installation or any item not contained within this quotation. Prices are subject to change following design or layout alteration or any change required by local authorities. Prices are valid for 7 days.
2. Payment terms are 50% down with order, 40% prior to shipment and remaining 10% net 30.

3. Shipment of the equipment will be 14 to 16 weeks from the placement of the order. Install crew is available approximately 100 to 120 days after placement of the order.
4. Freight is F.O.B. factory. Price does not include freight.
5. All Airblast AFC equipment is ETL Listed and is designed and constructed to conform with all OSHA and NFPA regulations. The customer should get quoted equipment approved by any and all governing authorities.
6. The customer is responsible for providing a clean, dry indoor storage location for all equipment before, during and after installation. Any damage to equipment as a result of storage in a location that is not clean and dry will be the responsibility of the customer.
7. The customer is responsible for providing a weather-tight building or protective structure to house the equipment quoted herein. Any damage to equipment caused as a result of installation in a location that is not clean and dry will be the responsibility of the customer.
8. The customer is responsible for any clean-up and/or repairs of equipment caused by the activation of a fire suppression system (if equipped).

#WARRANTY

Airblast AFC warrants that all equipment sold hereby will be of the kind and quality described in this agreement. The equipment manufactured by Airblast AFC is guaranteed to be free from all latent defects in material and workmanship disclosed under normal use and service, and should any part thereof be found, within one year from the date of shipment, to be so defective at the time shipped, Airblast AFC will repair or, at Airblast AFC's option, replace said part. In the case of standard apparatus furnished, but not manufactured by Airblast AFC, such as fans, motors, ovens, heaters, controls and light fixtures. Airblast AFC extends to purchaser the same guarantee as is given by their respective manufacturers. Airblast AFC is not required to provide equipment or meet performance specifications or standards not expressly set forth in this agreement. Airblast AFC's liability hereunder, however, is expressly limited to the materials furnished by it and does not extend to any damages to building, contents, products or persons. This warranty shall not apply to any of Airblast AFC's apparatus which shall have been altered or repaired outside of Airblast AFC's factory in any way so as, in Airblast AFC's judgment, to affect its performance, nor which has been subjected to misuse, negligence, accident or improper installation. IT IS EXPRESSLY AGREED THAT THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OF FITNESS OR MERCHANTABILITY, EXPRESS OR IMPLIED.

AIRBLAST AFC

EQUIPMENT PROPOSAL

Quote #: API-D9788
Date: 3/13/2024

*** Total does **not** include any optional items listed ***

** Sales tax may be collected at time of invoice **

PURCHASER'S ACCEPTANCE OF EQUIPMENT PROPOSAL & PURCHASER'S RESPONSIBILITIES:

It is understood and agreed that PURCHASER, amongst other things, is required to do the following:
a. Furnish, install and connect an adequate electrical service and all electrical items not expressly stated to be AFC's responsibility in this agreement. b. Furnish, install and connect, if required, an adequate gas service and all piping and plumbing items not expressly stated to be AFC's responsibility in this agreement. c. Unload the equipment from the common carrier/trucks. d. Furnish the necessary materials, labor, tools and equipment to cut, repair and flash all necessary holes in floors, walls, ceilings, roofs and windows for the proper installation of the equipment. e. Provide, install, and connect sprinkler systems and compressed air lines as may be required. f. Provide foundations, masonry work, grouting, supports, builder's and joiner's work, and all excavations as needed according to detailed drawings presented by AFC. g. Pay all local, state and federal taxes of any kind or character in connection with the purchase and installation of the above. h. Securing any required third party listings (i.e. UL,ETL...) as required by local, state, or federal law.

MISCELLANEOUS: AFC will not be required to add or subtract materials or services, or modify drawings prior to its receipt of an amended contract signed by PURCHASER.

This agreement shall not be cancelled without consent of AFC, and then only upon payment of appropriate cancellation charges to cover engineering, administration and manufacturing costs. This instrument constitutes the sole and only agreement of the parties hereto relating to said job and correctly sets forth the rights, duties and obligations of each to the other as of this date. Any prior agreements, promises, negotiations, or representation not expressly set forth in this agreement are of no force and effect. Any subsequent amendment hereto is of no force and effect unless and until there is a written Change Order fully executed and agreed to by all of the parties hereto. This agreement shall be interpreted pursuant to the laws of the State of California.

ADDITIONAL CONTRACT TERMS: The parties acknowledge that they have read the terms hereof as set forth on both sides of this document and upon execution hereof agree to be fully bound thereto. Purchaser acknowledges that until the goods sold hereby are paid for in full it has no legal or possessory rights hereto.

SEISMIC DESIGN and CODE COMPLIANCE
Unless otherwise noted, the equipment being provided by AFC has been designed and manufactured to comply up to and including Seismic Design Category (SDC) C of the International Building Code. If the purchaser intends to install and operate the equipment in a location where SDC D, E, or F apply, the design of the equipment must be reviewed by a qualified licensed engineer and modified as required prior to installation. At the purchaser's option: (1) AFC may provide outside engineering review and services for an additional charge prior to the manufacture of the equipment, or (2) the purchaser may select an engineer of their choice, at their own expense, to provide such services prior to applying for a building permit for installation. Unless otherwise agreed to in a separate writing, AFC neither assumes nor undertakes any responsibility for installation of the equipment, obtaining any necessary local building permits, or determining the suitability of the equipment for site specific seismic parameters.

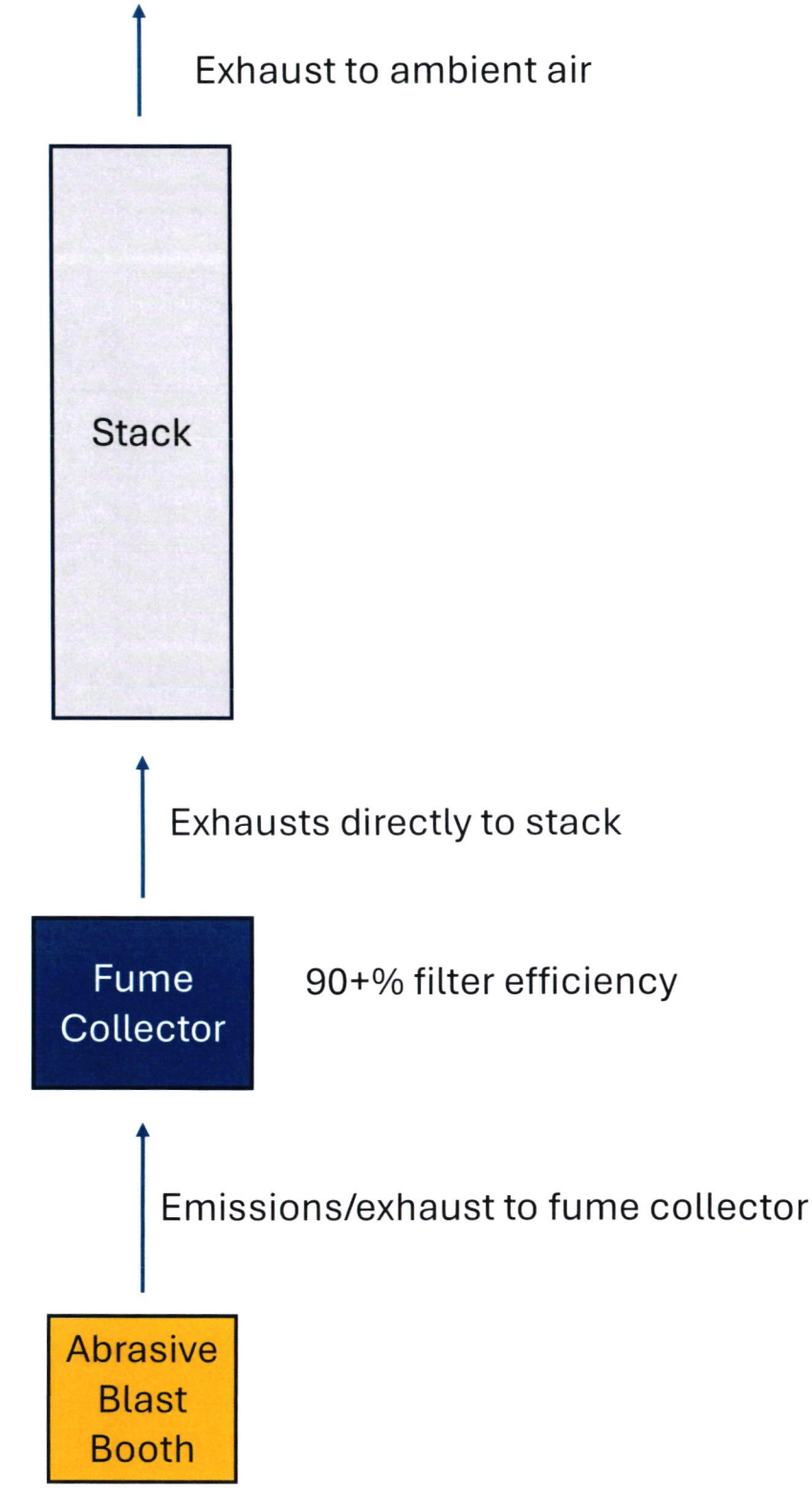
ERECTION: Unless otherwise stated herein, this agreement does not include the erection of the equipment sold hereby and AFC has no responsibility for erection even if Purchaser has obtained the name of the installer from AFC. Where state laws or municipal ordinances require permits to install equipment covered by this agreement, it is understood that Purchaser assumes all responsibility for securing such approval/permits and is to pay for any and all fees in connection therewith.

Accepted By _____ Print Name _____

For: Date _____

CONDITIONAL SALES CONTRACT

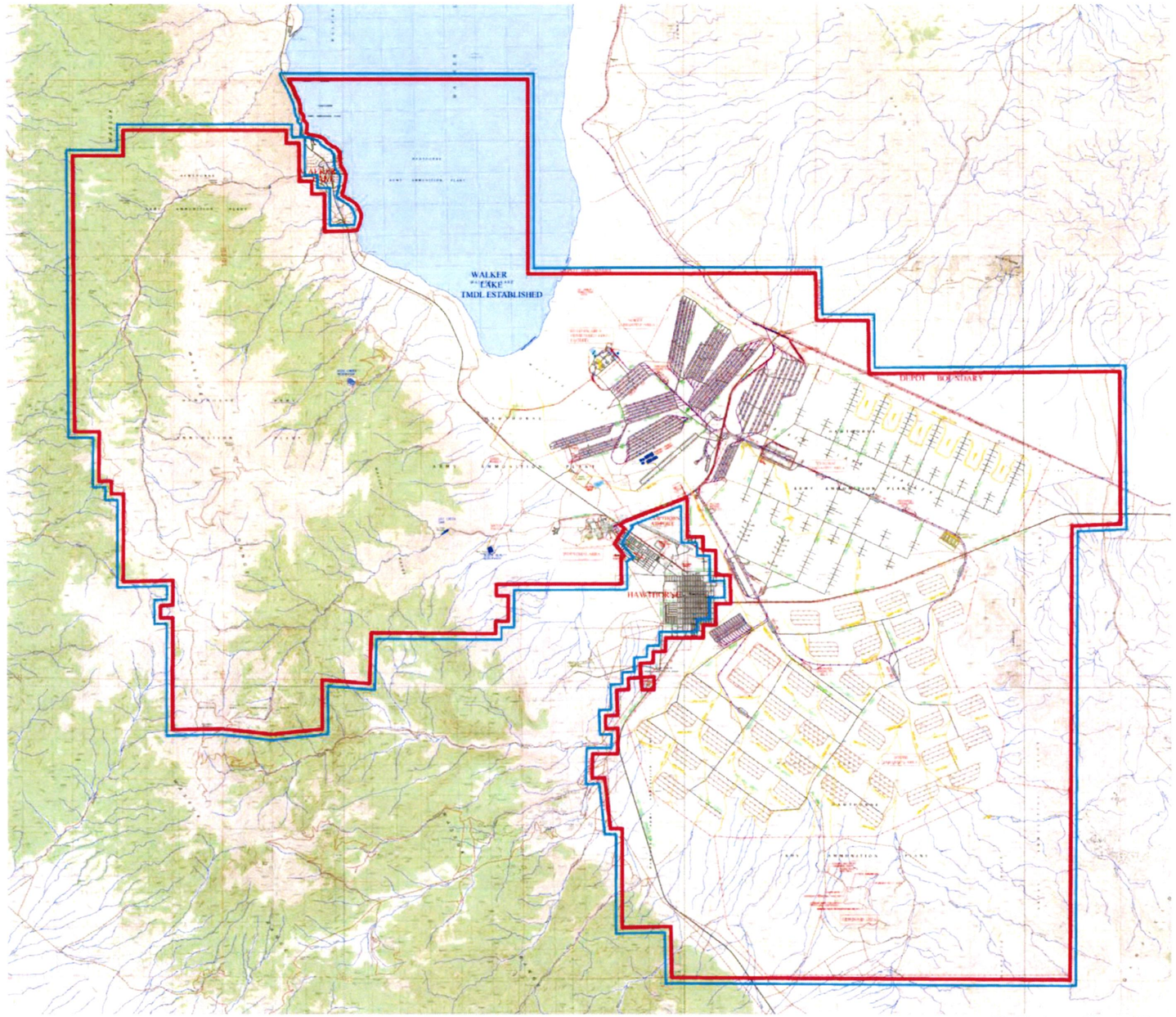
NOTICE: When this document is fully signed, it shall constitute a Conditional Sales Contract between the parties hereto, and in accordance with the terms set forth. IT IS FULLY ACKNOWLEDGED AND AGREED THAT THIS AGREEMENT INCLUDES THE TERMS/RESPONSIBILITIES PRINTED ABOVE.

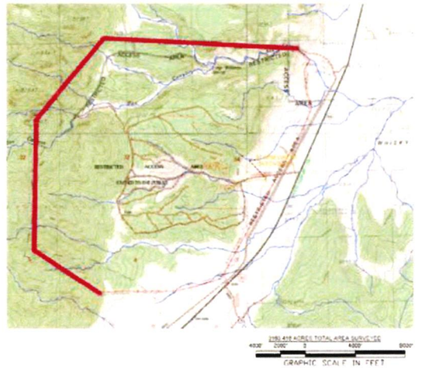


Blast Booth Process Flow

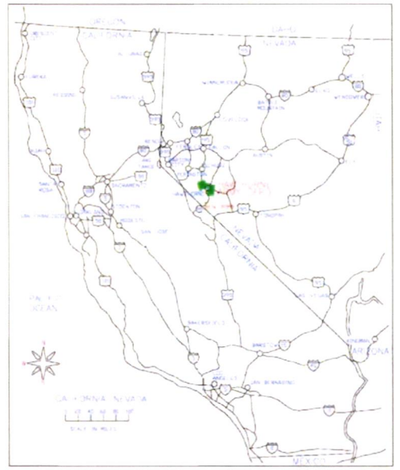
APPENDIX 4

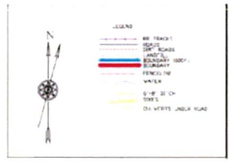
Figures





NEW BOMB





Source: 2018 Main Base RCRA permit application.

2025-05-12 N:\2022\20220002_DYNCORP_USACE_HWAD_EMI_Graphics\1-1_GIS\Proj\Miscel\Miscel.aprx SitePlan ERRG azhuk

Figure 1. HWAD Site Plan/Vicinity Map
HWAD Class I Air Quality Permit Revision
Hawthorne, Nevada

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Figure 2. New Emisson Unit Locations

HWAD Class I Air Quality Permit Revision
Hawthorne, Nevada

