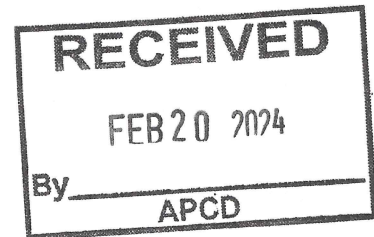


5090
Ser N45MC.NC/006
15 Feb 24



Mr. Nick Horres, PE
Senior Air Pollution Control Engineer
San Diego Air Pollution Control District
10124 Old Grove Rd.
San Diego, CA 92131

Subject: Initial Application for Title V Permit

Dear Mr. Horres,

Naval Base San Diego (NBSD) is pleased to submit to the San Diego Air Pollution Control District (SDAPCD) the enclosed initial Title V Permit application for the Ship Construction & Repairs Functional Group. The application processing check for \$16,553 is enclosed with the application package.

The Responsible Official for the Title V permit is Captain Robert Heely, NBSD Commanding Officer. Our Alternate Responsible Official who has "By direction" signature authority from the Commanding Officer is Mr. Nick Popaditch, Installation Environmental Program Director, NBSD.

This application package includes all the required forms, as specified on SDAPCD website regarding Title V Permits ([Title V Permits \(sdapcd.org\)](https://sdapcd.org)). NBSD has reviewed the forms and deemed them to be correct and relevant to this initial application.

If you have any questions, please feel free to contact Nick Critti, Air Quality Program Lead at (619) 556-5418 or via email at nick.j.critti.civ@us.navy.mil.

Sincerely,

A handwritten signature in blue ink, appearing to read "Nick Popaditch".

Nick Popaditch
Installation Environmental Program Director
Naval Base San Diego

Internal Use Only	
APP ID: APCD	-APP/CER-
SITE ID: APCD	-SITE-

GENERAL PERMIT OR REGISTRATION APPLICATION FORM



San Diego County
Air Pollution
Control District

Submittal of this application does not grant permission to construct or to operate equipment except as specified in Rule 24(c).

REASON FOR SUBMITTAL OF APPLICATION:

- | | | |
|--|--|--|
| <input type="checkbox"/> New Installation | <input type="checkbox"/> Existing Unpermitted Equipment or Rule 11 Change | <input type="checkbox"/> Modification of Existing Permitted Equipment |
| <input type="checkbox"/> Amendment to Existing Authority to Construct or Application | <input type="checkbox"/> Change of Equipment Location | <input type="checkbox"/> Change of Equipment Ownership (please provide proof of ownership) |
| <input type="checkbox"/> Change of Permit Conditions | <input type="checkbox"/> Change Permit to Operate Status to Inactive | <input type="checkbox"/> Banking Emissions |
| <input type="checkbox"/> Registration of Portable Equipment | <input checked="" type="checkbox"/> Other (Specify) Application for Initial Title V permit | |

List affected APP/PTO Record ID(s): _____

APPLICANT INFORMATION

Name of Business (DBA) Naval Base San Diego, Ship Construction & Repairs functional group

Does this organization own or operate any other APCD permitted equipment at this or any other adjacent locations? ☒ Yes ☐ No

If yes, list assigned Site Record IDs listed on your Permits APCD1980-SITE-02799 and APCD1981-SITE-02798

Name of Legal Owner (if different from DBA) _____

Equipment Owner

Authority to Construct Mailing Address

Name: Commander Navy Region Southwest N45/Air	Name: Same as Equipment Owner
Mailing Address: 750 Pacific Highway, Attn: EV 1.1/Floor 11	Mailing Address:
City: San Diego State: CA Zip: 92132	City: State: Zip:
Phone: (619) 556-5418	Phone: ()
E-Mail Address: nick.j.critti.civ@us.navy.mil	E-Mail Address:

Permit To Operate Mailing Address

Invoice Mailing Address

Name: Same as Equipment Owner	Name: Same as Equipment Owner
Mailing Address:	Mailing Address:
City: State: Zip:	City: State: Zip:
Phone: ()	Phone: ()
E-Mail Address:	E-Mail Address:

EQUIPMENT/PROCESS INFORMATION: Type of Equipment: ☐ Stationary ☐ Portable, *if portable please enter below the equipment storage address.* If portable, will operation exceed 12 consecutive months at the same location ☐ Yes ☐ No

Equipment Location Address Ship Construction & Repairs Functional Group City San Diego State: CA

Parcel No. _____ Zip _____ Phone (619) 556-5418 E-mail: nick.j.critti.civ@us.navy.mil

Site Contact Nick Critti, Air Quality Program Lead Phone (619) 556-5418

General Description of Equipment/Process Initial Title V Permit application for Ship Construction & Repair Functional Group under NBSD

Application Submitted by ☒ Owner ☐ Operator ☐ Contractor ☐ Consultant Affiliation _____

EXPEDITED APPLICATION PROCESSING: ☐ I hereby request Expedited Application Processing and understand that:

a) Expedited processing will incur additional fees and permits will not be issued until the additional fees are paid in full (see Rule 40(d)(8)(iv) for details) b) Expedited processing is contingent on the availability of qualified staff c) Once engineering review has begun this request cannot be cancelled d) Expedited processing does not guarantee action by any specific date nor does it guarantee permit approval.

☐ **This application contains trade secret or confidential information (see reverse for instructions)**

I hereby certify that all information provided on this application is true and correct.

SIGNATURE [Signature] Date 15 Feb 2024
Print Name Nick Critti, Naval Base San Diego Environmental Company Naval Base San Diego
Phone (619) 556-5418 E-mail Address nick.j.critti.civ@us.navy.mil

Internal Use Only

Date _____	Staff Initials: _____	Amt Rec'd \$ _____	Fee Schedule _____
RNP: _____	EMF: _____	NBF: _____	TA: _____

GEN_APP_Form_Rev Date: Aug. 2017

**SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT
APPLICATION FEE ESTIMATE**

Applicant Site ID/EIF ID:	APCD1981-SITE-02798 & 1980-SITE-02799	Reason for Submittal:	Title V - Initial Permit
Equipment Type:	Initial Title V permit		
Applicant DBA:	Naval Base San Diego, Ship Construction & Repairs	Existing Site?	Yes
Affected Permit Number:	NA	Estimate Date:	2/13/2024
Equipment Description: (See footnote 8)	18 active permits including coating/adhesive operations, abrasive blasting, boilers, etc. See application for complete list.		

ACTIVITY	FEE CLASSIFICATION	QUANTITY	UNIT COST	SUBTOTAL	TRUST (APCD USE)
Initial Evaluation Fee					
Base Engineering Evaluation	T&M Engineering Services	60.0	\$274.00	\$16,440.00	TIV
	Fixed Fee				EFX
Additional Evaluation and Processing Fees (Rule 40(d)(5))					
New Source Review	T&M Engineering Services				NSR
	T&M Monitoring Services				AQI
Toxics New Source Review (Health Risk Assessment)	HRA Base Estimate (Engineering & Monitoring Services)				TNS
NESHAPS/ATCM/NSPS	T&M Engineering Services				HAP
CEQA	T&M Engineering Services				CEQ
Source Testing	Fixed Fee/T&M Monitoring Services				STF
Miscellaneous Fees					
Processing Fee (Rule 40(d)(1)(ii))		1.0	\$113	\$113.00	EFX
Annual Operating Fee (Rule 40(e)(2)(ii))				\$0.00	REN
Emissions Fee (Rule 40(e)(2)(iv))				\$0.00	EMF
Split Payment Fee					

NOTES:

ESTIMATE TOTAL: \$16,553.00

- (1) This document must be submitted with your application forms and is subject to review by District staff for accuracy.
- (2) The fees contained in this estimate are based on APCD Rule 40. Final fee may be more or less than this estimate (see Rule 40(d)(1)(iii)).
- (3) Emissions determined to be greater than 5 tons per year will be charged a emission fee on a ton per year basis. (see Rule 40 (e)(2)(iv)(A))
- (4) Fees paid by credit card will be assessed a 2.19% processing fee (see Rule 40(c)(5))
- (5) Federal government payments made through DFAS: Please reference the above Site ID Record number in your DFAS submittal.
- (6) This estimate is valid only for applications received by the District by June 30, 2024

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Stationary Source Summary (FORM 1401-A1)

Company Name	District Use Only
<u>Naval Base San Diego, Ship Construction & Repairs</u>	NEDS # _____
	SITE ID # _____

I. FACILITY IDENTIFICATION

1. Facility Name (if different than company name): Not Applicable
2. Four digit SIC Code: 9711
3. Parent Company (if different than Company Name): Not Applicable
4. Mailing Address: 750 Pacific Highway, Attn: EV 1.1/Floor 11
City San Diego State CA Zip 92132
5. Street Address or Source Location: 32nd St & Harbor Dr
City San Diego State CA Zip 92136
6. UTM Coordinates: East 488236.70 (m); North 3616476.82 (m)
7. Source Located within 50 miles of a state line: ☒ Yes ☐ No (All sources **are** within 50 miles)
8. Source Located within 1000 feet of a school: ☐ Yes ☒ No
9. Type of Organization: ☐ Corporation ☐ Sole Ownership ☒ Government
☐ Partnership ☐ Utility Company
10. Legal Owner's Name: Navy Region Southwest (NRSW)
11. Owner's Agent name (if any): _____
12. Responsible Official: Captain Robert Heely, NBSD Commanding Officer; ALT: Nick Popaditch, PE, EPD
13. Plant Site Manager/Contact: Nick Critti Phone #: 619-556-5418 FAX #: _____
14. Application Contact: Nick Critti, Air Quality Program Lead
15. Type of Facility: Navy Installation, homeport to the Pacific Fleet Surface Navy
16. General description of processes/products: Abrasive blasting, adhesive operation, diesel engines, fire fighter training related external combustion, Fiberglass sanding, furnace and oven, gasoline dispensing facility, marine coating, metal and marine coating, and paint stripping tank.
17. Is a Federal Risk Management Plan (RMP) pursuant to Section 112(r) required? ☐ Yes ☒ No
(If application is submitted after RMP due date, attach verification that plan is registered with the appropriate agency.)

II. TYPE OF PERMIT ACTION (check)	CURRENT PERMIT (permit number)	EXPIRATION (date)
<input checked="" type="checkbox"/> Initial Title V Application	N/A	N/A
<input type="checkbox"/> Permit Renewal		
<input type="checkbox"/> Significant Permit Modification		
<input type="checkbox"/> Minor Permit Modification		
<input type="checkbox"/> Administrative Amendment		

III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:

☐ Acid Rain Source
☐ CEMs
☐ Outdated SIP Requirement Streamlining
☐ Source Subject to MACT Requirements [Section 112]
☐ Source Subject to Enhanced Monitoring (40CFR64) [Compliance Assurance Monitoring]

☐ Temporary Source
☐ Alternative Operating Scenarios
☐ Permit Shield
☐ Multiple Applicable Requirement Streamlining

☐ Voluntary Emissions Caps
☒ Abatement Devices
2. Is source operating under a Compliance Schedule? ☐ Yes ☒ No ☐ Proposed
3. Is source operating under a Variance ☐ Yes ☒ No (If Yes, please attach variance information)
4. For permit modification, provide a general description of the proposed permit modification:
Not applicable

IV. SUPPLEMENTAL ATTACHMENTS*: Cover Letter; Compliance Assurance Monitoring Applicability Analysis

* Means all attachments to the complete application.

TITLE V APPLICATION
Stationary Source Summary (FORM 1401-A2)


Company Name <u>Naval Base San Diego, Ship Construction & Repairs</u>	District Use Only NEDS # _____ SITE ID # _____
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I. MAJOR SOURCE APPLICABILITY

Check appropriate pollutant(s) for which you are a Major Source under Title V. Applicability is based on potential to emit. If more space is necessary, use additional forms. Please type or print legibly.

POLLUTANT	MAJOR SOURCE THRESHOLD TOTAL EMISSIONS, TPY	(check if appropriate)
VOC	25	<input checked="" type="checkbox"/>
PM ₁₀	100	<input type="checkbox"/>
SO ₂	100	<input type="checkbox"/>
NO _x	25	<input checked="" type="checkbox"/>
CO	100	<input type="checkbox"/>
ODC	100	<input type="checkbox"/>
LEAD COMPOUNDS	10	<input type="checkbox"/>
HAZARDOUS AIR POLLUTANTS		
SINGLE HAP	10	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
COMBINATION HAP	25	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

Attach all necessary calculations to this form as applicable. NOTE: Calculations are only needed if no Emission Inventory is on file with the District

Reference Naval Base San Diego Ship Construction & Repair

Signature of Responsible Official

Inventory Year 2022
15 FEB 2024
Date

Nick Popaditch, PE
Print Name of Responsible Official
Installation Environmental Program Director
Title of Responsible Official

(619) 556-1532
Telephone No. of Responsible Official

II. EMISSIONS CALCULATIONS ATTACHED (as needed)

☐ Yes ☒ No

DISTRICT USE ONLY

Date Application Received: _____
Application Filing Fee: _____
Receipt #: _____

Application # _____
District Received Stamp: _____
Fee Code: _____

San Diego County Air Pollution Control District
10124 Old Grove Rd., San Diego, CA 92131
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Insignificant Activity List (FORM 1401-G)

Company Name <u>Naval Base San Diego, Ship Construction & Repairs</u> Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u>	<b style="color: red;">District Use Only NEDS # _____ SITE ID # _____
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LIST OF EQUIPMENT – INSIGNIFICANT ACTIVITIES

Place a check mark in the appropriate box for equipment that is considered an insignificant activity based on throughput or equipment capacity.

Exemptions based on Size (Capacity)

<u>(Condensed Language of Rule)</u>	<u>Appendix A Citation</u>
<input checked="" type="checkbox"/> Stationary & portable internal combustion engines with ≤ 50 bhp output rating	(d)(1)(iii)
<input type="checkbox"/> Stationary gas turbines with a power rating of < 0.3 megawatt (MW) or a maximum gross heat input rating of 1 million BTUs per hour	(d)(1)(iv)
<input type="checkbox"/> Water cooling towers & ponds with a capacity $< 10,000$ gal/min not used for evaporative cooling of process water or not used for evaporative cooling of water, contaminated water or industrial waste water from barometric jets or from barometric condensers.	(d)(2)
<input checked="" type="checkbox"/> Fuel-burning equipment with a maximum gross heat input rate of < 1 million Btu/hour when not part of a process, process line, line, equipment, article, machine or other contrivance for which a permit to operate is required by these Rules and Regulations	(d)(4)(i)
<input checked="" type="checkbox"/> Fuel burning equipment with a maximum gross heat input of < 20 million Btu/hour, and fired exclusively with natural gas and/or liquefied petroleum gas	(d)(4)(ii)
<input type="checkbox"/> Steam boilers, process heaters, and steam generators with a maximum gross heat input of < 5 million Btu/hour	(d)(4)(iii)
<input type="checkbox"/> Crucible-type or pot-type furnaces with a brimful capacity of < 450 in ³ of any molten metal	(d)(12)
<input type="checkbox"/> Crucible, pot or induction furnaces with a capacity of ≤ 2500 in ³ , in which no sweating or distilling is conducted and from which only non-ferrous metals except yellow brass, are poured or non-ferrous metals are held in a molten state	(d)(13)
<input type="checkbox"/> Dry batch mixers with ≤ 0.5 cubic yards rated working capacity	(d)(27)
<input type="checkbox"/> Batch mixers (wet) with ≤ 1 cubic yard capacity where no organic solvents, diluents or thinners are used.	(d)(28)
<input type="checkbox"/> Roofing kettles (used to heat asphalt) with a capacity of ≤ 85 gallons	(d)(33)
<input checked="" type="checkbox"/> Abrasive blasting equipment with a manufacturer's-rated sand capacity of < 100 lbs or < 1 ft ³	(d)(34)
<input checked="" type="checkbox"/> Paper shredders and paper disintegrators that have a capacity of 600 pounds per hour or less, and the associated conveying systems and baling equipment.	(d)(41)
<input type="checkbox"/> Ovens having an internal volume of ≤ 27 ft ³ in which organic solvents or materials containing organic solvents are charged	(d)(59)
<input checked="" type="checkbox"/> Cold solvent cleaning tanks, vapor degreasers, and paint stripping tanks with a liquid surface area of ≤ 1.0 ft ²	(d)(61)(i)
<input checked="" type="checkbox"/> Cold solvent cleaning tanks, vapor degreasers, and paint stripping tanks which have a maximum capacity of ≤ 1 gallon	(d)(61)(ii)

TITLE V APPLICATION Insignificant Activity List (FORM 1401-G)
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Continued - Exemptions based on Size (Capacity)

<u>(Condensed Language of Rule)</u>	<u>Appendix A Citation</u>
<input checked="" type="checkbox"/> Stationary organic compound storage tanks with a capacity of ≤ 250 gallons	(e)(1)
<input type="checkbox"/> Liquid surface coating application operations using hand-held brushes for application of a primer coating from containers of \leq eight (8) ounces in size, to fasteners to be installed on aerospace parts	(h)(5)
<input checked="" type="checkbox"/> Liquid surface coating application operations using air brushes with a coating capacity of ≤ 2 ounces for the application of a stencil coating	(h)(6)
<input type="checkbox"/> Metal inspection tanks that: a) do not utilize a suspension of magnetic or fluorescent dye particles in volatile organic solvent, and b) have a liquid surface area $< 5 \text{ ft}^2$ and c) are not equipped with spray type flow or a means of solvent agitation	(o)(5)
<input type="checkbox"/> Bakery ovens used for baking yeast leavened products where the combined rated heat input capacity is < 2 million Btu/hr	(o)(37)

Exemptions based on Production Rates (Emission Limits)

<input type="checkbox"/> Printing or graphic arts presses located at a stationary source which emits a total of < 15 lbs/day of VOC's subject to Rule 67.16, on each day of operation	(d)(7)
<input type="checkbox"/> Solder levelers, hydrosqueegees, wave solder machines, and drag solder machines which use < 10 lbs/day of any material containing VOCs	(d)(23)
<input checked="" type="checkbox"/> Fire extinguishing equipment, using halons with a charge of < 50 lbs. of a Class I or Class II ozone depleting compound.	(d)(31)
<input type="checkbox"/> Coffee roasting equipment with a manufacturer's rating of ≤ 15 lbs/hr	(d)(45)
Equipment used to manufacture bio-agricultural products for exclusive use in field testing required to obtain FDA, EPA, USDA and /or Cal-EPA approval, provided the uncontrolled emissions of VOCs from all such operations < 5 ton/yr.	(d)(49)(iii)
<input type="checkbox"/> Oil quenching tanks which use < 20 gal/yr of make-up oil	(d)(56)
<input type="checkbox"/> Equipment that is used to conduct research and develop new or improved processes/products, and is operated by technically trained personnel under the supervision of a research director, and is not used in the manufacture of products for sale or exchange for commercial profit, and all emissions are < 15 lbs/day.	(d)(48)
<input type="checkbox"/> Powder coating operations, except metalizing gun operations, where surface preparation or cleaning solvent usage is < 0.5 gal/day	(d)(62)
<input type="checkbox"/> Equipment used to transfer fuel to & from amphibious ships for maintenance purposes, provided total annual transfers $< 60,000$ gal/yr.	(f)(2)
<input checked="" type="checkbox"/> Stationary storage tanks (excluding tanks subject to Rule 61.9) used exclusively for the storage of liquid organic solvents used as dissolvers, viscosity reducers, reactants, extractants, cleaning agents or thinners provided that emissions < 15 lbs/day.	(e)(3)
<input type="checkbox"/> Liquid surface coating or adhesive application operations (portable or stationary) where not more than 20 gallons per year of material containing organic compounds are applied	(h)(1)
<input checked="" type="checkbox"/> Liquid surface coating application operations exclusively using materials with a VOC content of < 20 g/L where < 30 gal/day of such materials are applied.	(h)(2)
<input type="checkbox"/> Foam manufacturing or application operations which emit < 5 lbs/day of VOCs	(i)(1)
<input type="checkbox"/> Reinforced plastic fabrication operations using resins such as epoxy and/or polyester which emit < 5 lbs/day of VOCs	(i)(2)
<input type="checkbox"/> Plastics manufacturing or fabrication operations which emit < 5 lbs/day of VOCs	(i)(3)
<input type="checkbox"/> Cold solvent degreasers used for educational purpose and which emit < 5 lbs/day of VOCs	(i)(4)

TITLE V APPLICATION
Insignificant Activity List (FORM 1401-G)

- | | | |
|-------------------------------------|--|-------------|
| <input type="checkbox"/> | Golf grip application stations which exclusively use liquid materials with an initial boiling point of 450°F (232°C), or greater and which emit < 5 lbs/day of VOCs. | (i)(5) |
| <input type="checkbox"/> | Batch-type waste-solvent recovery stills with batch capacity of ≤ 7.5 gallons for onsite recovery provided the still is equipped with a safety device & VOC emissions are < 5 lbs/day | (i)(6) |
| <input type="checkbox"/> | Peptide and DNA synthesis operations which emit < 5 lbs/day of VOCs | (i)(7) |
| <input type="checkbox"/> | Equipment used for washing or drying articles fabricated from metal, cloth, fabric or glass, provided that no organic solvent is employed in the process and that no oil or solid fuel is burned and none of the products being cleaned has residues of organic solvent and VOC emissions are <5 lbs/day | (i)(8) |
| <input type="checkbox"/> | Hot wire cutting of expanded polystyrene foam which emit < 5 lbs/day of VOCs. | (i)(9) |
| <input type="checkbox"/> | Any coating and/or ink manufacturing operations located at a stationary source, which emit < 15 lbs/day of VOCs. | (o)(9) |
| <input type="checkbox"/> | Any operation producing materials for use in cosmetic or pharmaceutical products and/or manufacturing cosmetic or pharmaceutical products by chemical processes, which emit < 15 lbs/day of VOCs | (o)(12) |
| <input checked="" type="checkbox"/> | Refrigeration units except those used as, or with, air pollution control equipment with a charge of < 50 lbs of a Class I or II ozone depleting compound. | (o)(18) |
| <input type="checkbox"/> | Atmospheric organic gas sterilizer cabinets where ethylene oxide emissions are < 5 lbs/yr | (o)(28) |
| <input type="checkbox"/> | Aerosol can puncturing/crushing operations which vents all emissions through a properly operated/maintained carbon canister, provided < 500 cans/day are processed. | (o)(29)(ii) |
| <input checked="" type="checkbox"/> | Solvent wipe cleaning operations using a container applicator that minimizes emissions to the air where the uncontrolled emissions of VOCs < 5 ton/yr, or the total purchase of solvents < 1,500 gal/yr, or the total purchase of solvents containing a single HAP < 350 gal/yr. | (o)(32) |
| <input type="checkbox"/> | Equipment approved for use by the EPA for recovering and/or recycling CFCs provided such equipment is charged with < 50 lbs. of a Class I or II ozone depleting compound. | (o)(33) |
| <input checked="" type="checkbox"/> | Stationary IC engines rated at ≤ 200 bhp installed and operated before November 15, 2000, which operate < 200 hr/yr. | (o)(34)(ii) |

San Diego County Air Pollution Control District
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION

Applicable Requirements Summary Checklist (FORM 1401-H1)

Company Name	District Use Only
<u>Naval Base San Diego, Ship Construction & Repairs</u>	NEDS # _____ SITE ID # _____

APPLICABLE REQUIREMENTS: Applicable requirements which apply to an entire facility are listed first. The applicant should check appropriate boxes on the form and attach emission unit specific permit number lists where necessary. Where streamlining is employed, note on this form. If information does not fit in the space allotted, attach documentation and reference it on this form. **Type or print legibly.**

[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Abrasive Blasting	Adhesive Operation	Burnout Furnace/Oven	Diesel Prime Engine_Portable	External Combustion	Grinding	Gasoline Dispensing Facility Aboveground	Marine Coating	Metal and Marine Coating	Metal Coating	Paint Stripping Tank											Future Effective Date
A	General Provisions		260.7 260.13																							
D	Standards of Performance for Fossil-Fuel Fired Steam Generators	260.46	260.45																							
Da	Standards of Performance for Electric Utility Steam Generating Units Constructed After September 18, 1978		260.47a 260.48a 260.49a																							
Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating	260.45b 260.46b	260.47b 260.48b 260.49b																							
E	Standards of Performance for Incinerators	260.54	260.53																							
I	Standards of Performance for Asphalt Concrete Plants	260.93																								
K	Standards of Performance for Storage Vessels for Petroleum Liquids Constructed after June 11, 1973 and Prior to May 19, 1978		260.113																							
Ka	Standards of Performance for Storage Vessels for Petroleum Liquids Constructed after May 18, 1978	260.113a	260.115a																							
Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984	260.113b	260.115b 260.116b																							
L	Standards of Performance for Secondary Lead Smelters	260.123																								

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Abrasive Blasting	Adhesive Operation	Burnout Furnace/Oven	Diesel Prime Engine_Portable	External Combustion	Grinding	Gasoline Dispensing Facility Aboveground	Marine Coating	Metal and Marine Coating	Metal Coating	Paint Stripping Tank											Future Effective Date
Dc	Small Industrial - Commercial -Institutional Steam Generators >10 but <100 MM Btu.																									
Ea	Municipal Waste Combustors																									
G	Nitric Acid Plants																									
H & Cb	Sulfuric Acid Plants																									
N	Oxygen Process Furnaces																									
Na	Oxygen Process Steelmaking Facilities																									
P	Primary Copper Smelters																									
Q	Primary Zinc Smelters																									
R	Primary Lead Smelters																									
S	Primary Aluminum Reduction Plants																									
T & U	Phosphate Fertilizer Industry																									
V, W, X	Phosphate Fertilizer Industry																									
Y	Coal Preparation Plants																									
Z	Ferroalloy Production Facilities																									
AA, AAa	Steel Plants																									
BB	Kraft Pulp Mills																									
CC	Glass Manufacturing Plants																									
HH	Lime Manufacturing Plants																									
KK	Lead-Acid Battery Manufacturing Plants																									
LL	Metallic Mineral Processing Plants																									
MM	Automobile and Light-Duty Truck Surface Coating Operations																									

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Abrasive Blasting	Adhesive Operation	Burnout Furnace/Oven	Diesel Prime Engine_Portable	External Combustion	Grinding	Gasoline Dispensing Facility Aboveground	Marine Coating	Metal and Marine Coating	Metal Coating	Paint Stripping Tank													Future Effective Date	
RRR	VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes																												
SSS	Magnetic Tape Coating Facilities																												
TTT	Industrial Surface Coating Surface, Surface Coating of Plastic Parts for Business Machines																												
UUU	Calciners and Dryers in Mineral Industries																												
VVV	Polymeric Coating of Supporting Substances Facilities																												
WWW	Standards of Performance for Municipal Solid Waste Facilities																												
III	Stationary Compression Ignition Internal Combustion Engines NSPS																												
JJJ	Stationary Spark Ignition Internal Combustion Engines NSPS																												
SUBPART	REGULATION XI - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)																												
A	General Provisions																												
C, D	Beryllium Extraction Plants; Ceramic Plants, Foundries, Incinerators, Propellant Plants, and Machine Shops that Process Beryllium Containing Material; and Rocket Motor Firing Test Sites																												
E	Mercury Ore Processing; Manufacturing Processes Using Mercury Chloralkali Cells; and Sludge Incinerators.																												

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Abrasive Blasting	Adhesive Operation	Burnout Furnace/Oven	Diesel Prime Engine_Portable	External Combustion	Grinding	Gasoline Dispensing Facility Aboveground	Marine Coating	Metal and Marine Coating	Metal Coating	Paint Stripping Tank										Future Effective Date
F	Ethylene Dichloride Mfg. Via Oxygen, HCl and Ethylene; Vinyl Chloride Mfg.; and Polyvinyl Chloride Mfg.																								
M	Asbestos Mills; Roadway Surfacing with Asbestos Tailings; Manufacture of Products Containing Asbestos; Demolition; Renovation; and Spraying and Disposal of Asbestos Waste																								
B, Q, R T, W	Underground Uranium Mines; Dept. of Energy Facilities; Phosphorus Fertilizer Plants; & Facilities Processing or Disposing of Uranium Ore & Tailings																								
H, I, K	Dept. of Energy; Nuclear Regulatory Commission Licensed Facilities; Other Federal Facilities; and Elemental Phosphorus Plants. (Radionuclide)																								
J, L, Y, BB, FF	Fugitive Process, Storage, and Transfer Equipment Leaks; Coke By-Product Recovery Plants; Benzene Storage Vessels; Benzene Transfer Operations; and Benzene Waste Operations.																								
N, O, P	Glass Manufacturer; Primary Copper Smelter; Arsenic Trioxide and Metallic Arsenic Production Facilities.																								

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

<p align="center">TITLE V APPLICATION</p> <p align="center">Applicable Requirements Summary Checklist (FORM 1401-H1) - continued</p>	
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[illegible]

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
LIST OF PERMITS BY EQUIPMENT CATEGORY (FORM 1401-H2)

Company Name	District Use Only
<u>Naval Base San Diego, Ship Construction & Repairs</u> Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u>	NEDS # _____ SITE ID # _____

PERMITTED EMISSION UNITS BY EQUIPMENT CATEGORY

In the emission unit (equipment) category order entered on Form 1401-H1, Applicable Requirements Summary Checklist, list emission units by permit number for the specific emission unit (equipment) category. Under the column labeled status place an "O" if operational, "N" if non-operational, or "S" if the equipment is new and currently operating under a startup authorization. **If more space is required, use additional forms. Please type or print legibly.**

Emission Unit Category	Application/ Permit No.	Status of Emission Unit
Abrasive Blasting	890036	O
Abrasive Blasting	890037	O
Abrasive Blasting	976309	O
Abrasive Blasting	001055	O
Adhesive Operation	880723	O
Burnout Furnace/Oven	004619	O
Burnout Furnace/Oven	940175	O
Burnout Furnace/Oven	976823	O
Diesel Prime Engine Portable	003676	O
External Combustion	890100	O
External Combustion	891224	O
Gasoline Dispensing Facility Aboveground	004125	O
Grinding	005686	O
Marine Coating	002498	O
Marine Coating	007163	O
Metal and Marine Coating	001976	O
Metal Coating	007657	Application
Paint Stripping Tank	002995	O

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Certification Statement (FORM 1401-I)

Company Name	District Use Only
NBSD, Ship Construction & Repairs	NEDS # _____
Facility Address: 32nd St & Harbor Dr, San Diego, CA 92136	SITE ID # _____

Under penalty of perjury, identify the following: (Read each statement carefully and check each box for confirmation.)

Applicable Not
 Applicable

☒☐

Based on information and belief formed after reasonable inquiry, the source(s) identified in this application will continue to comply with the applicable requirement with which the source is in compliance. The applicable requirement(s) with which the source(s) is/are not in compliance is/are identified in Form 1401-L, Schedule of Compliance.

☒☐

Based on information and belief formed after reasonable inquiry, the source(s) identified in this application will comply with the future-effective applicable requirement(s) on a timely basis.

☐☒

Based on information and belief formed after reasonable inquiry, the source(s) identified in the Schedule of Compliance application form that is/are not in compliance with the applicable requirement(s), will comply in accordance with the attached compliance plan schedule.

☒☐

Based on information and belief formed after reasonable inquiry, information on application forms, referenced documents, all accompanying reports, and other required certifications are true, accurate, and complete.

☒☐

All fees required by Regulation III, Rule 40 have been paid.

Signature of Responsible Official

Date

15 FEB 2024

Nick Popaditch, PE

(619) 556-1532

Print Name of Responsible Official

Telephone No. of Responsible Official

Installation Environmental Program Director

Title of Responsible Official

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Compliance Certification Schedule (FORM 1401-K)

<p style="text-align: center;">Company Name</p> <p><u>Naval Base San Diego, Ship Construction & Repairs</u></p> <p>Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u></p>	<p style="text-align: center;">District Use Only</p> <p>NEDS # _____</p> <p>SITE ID # _____</p>
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In numerical order, list all sources that have federally enforceable requirements for compliance certification on a more frequent basis than once per year. **If more space is required, use additional forms. Please type or print legibly.**

Permit No.	Emission Unit Name	Applicable Requirements	Frequency
None	None	None	Not Appl.

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Schedule of Compliance (FORM 1401-L)

Company Name _____ Naval Base San Diego, Ship Construction & Repairs	District Use Only NEDS # _____ SITE ID # _____
Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u>	

SOURCES NOT IN COMPLIANCE

In numerical order, list all emission units by permit number that do not comply with a federally enforceable requirement. Describe how the source will achieve compliance. Propose a schedule to correct the deficiencies, and include a schedule for progress reports. Reports must be submitted at least every six months. If the source is operating under a judicial consent decree or administrative order, the Schedule of Compliance must be at least as stringent. **If more space is required, use additional forms. Please type or print legibly.**

Permit No.	Emission Unit Name	Applicable Requirements	Compliance Schedule Attachment
None	None	None	Not appl.

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Abatement Devices (FORM 1401-M)

Company Name <u>Naval Base San Diego, Ship Construction & Repairs</u>	District Use Only NEDS # _____
Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u>	SITE ID # _____

LIST OF ABATEMENT DEVICES

In numerical order, list all abatement devices, the abatement device, name or description, and the emission unit or operation abated. **If more space is required, use additional forms. Please type or print legibly.**

Permit No(s)	Abatement Device Name or Description	Emission Unit(s) or Operation(s) Abated
001055	Air Cleaning Tech. Inc. Model ATC2-8 dust control equipment, with 99.97% control efficiency @ 0.5 micro	Abrasive Blasting
004125	Phase I vapor recovery systems	Gasoline Dispensing Facility Aboveground
004619	Afterburner	Burnout Furnace/Oven
005686	Dust Collector with RedMax (TM) filters	Grinding
890036	Dust Collector: Clemco, Model CDF-8, 7100 cfm with 16 Clemco cartridge filters, Model 23744, 99.7% control efficien	Abrasive Blasting
890037	Dust Collector: Clemco, Model CDF-8, 7100 cfm with 16 Clemco cartridge filters, Model 23744, 99.7% control efficien	Abrasive Blasting
940175	Afterburner, Water spray smoke control	Burnout Furnace/Oven
976309	Dust Collector: Clemco, Model CDF-8, 7100 cfm with 16 Clemco cartridge filters, Model 23744, 99.7% control efficien	Abrasive Blasting
976823	Afterburner	Burnout Furnace/Oven

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
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TITLE V APPLICATION
Alternative Operating Scenario (FORM 1401-N)

Company Name Naval Base San Diego, Ship Construction & Repairs	District Use Only
Facility Address: 32nd St & Harbor Dr, San Diego, CA 92136	NEDS # _____ SITE ID # _____

SCENARIO WITH EMISSION CHANGES

Give a title, a brief description, and an emission change. Attach calculations and detailed descriptions of each scenario to this form, using one form for each scenario. **Please type or print legibly.**

Operating Scenario # NONE

TITLE	NONE
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DESCRIPTION	NONE
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EMISSION CHANGE	NOT APPLICABLE
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Attach all necessary calculations, detailed descriptions, and proposed terms and conditions to this form.

San Diego County Air Pollution Control District
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(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Multiple Applicable Requirements Streamlining (FORM 1401-O)

<p style="text-align: center;">Company Name</p> <p>Naval Base San Diego, Ship Construction & Repairs</p> <hr/> <p>Facility Address: 32nd St & Harbor Dr, San Diego, CA 92136</p>	<p style="text-align: center;">District Use Only</p> <p>NEDS # _____</p> <p>SITE ID # _____</p>
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MULTIPLE APPLICABLE REQUIREMENTS STREAMLINING

If more space is required, use additional forms. Please type or print legibly.

Application No(s) Permit No(s)	Multiple Applicable Requirements	Streamlined Requirements	Attachment Number
NONE	NONE	NONE	NOT APPLICABLE

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Permit Shield (FORM 1401-Q)

<p style="text-align: center;">Company Name</p> <p><u>Naval Base San Diego, Ship Construction & Repairs</u></p> <p>Facility Address: <u>32nd St & Harbor Dr, San Diego, CA 92136</u></p>	<p style="text-align: center;">District Use Only</p> <p>NEDS # _____</p> <p>SITE ID # _____</p>
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REQUEST FOR PERMIT SHIELD

If more space is required, use additional forms. Please type or print legibly.

Application No(s) Permit No(s)	Requirements to be Shielded	Basis	Attachment Number
None	None	None	Not Applicable

Compliance Assurance Monitoring (CAM) Applicability Analysis

Permit Number	Emission Unit	Pollutant Controlled	Control Device	Subject to Emission Standard?	Applicable Emission Standard	Throughput or emissions limit	Control Efficiency (CE), %	Reference for CE	Uncontrolled Emissions, ton/yr	CAM applicability Threshold, ton/yr	Subject to CAM?	Notes
1055	An Abrasive Blast Room: 14' x 7' x 8' Quantum Blast Solution down flow, Model PABR-1, S/N 05100010, with recycling system and one Pirate Blast Machine Model SPR-6.5, using plastic media abrasive	PM	Air Cleaning Tech. Inc. Model ATC2-8 dust control equipment, S/N 15170 with 99.97% control efficiency @ 0.5 micron.	Yes	0.1 gr/scf (Rule 52)		99.97%	PTO APCD2011-PTO-001055	21.90	100	No	PTE is below 100 ton/yr. See worksheet "PTO 1055"
4125	Gasoline Dispensing Facility (Non-Retail)	VOC	Phase II Phase I EVR	No						25	No	The emission unit is not subject to any permit or regulatory emission standard.
4619	Burnout oven: Manufacturer: Pollution Control Products Co., Model: VRC-390S, S/N: 7120,	VOC	Secondary (afterburner)	No						25	No	The emission unit is not subject to any permit or regulatory emission standard.
5686	Fiberglass Sanding / Preparation room with MicroAir Clean Air Booth (CAB) units, Model CAB8-881	PM	equipped with RedMax™ filters. Serial # (both units): 60827.	Yes	0.1 gr/scf (Rule 52)	2,080 hours per year	99.995%	Engineering Analysis, Application Number: 2013-APP-002722, 2013	0.007	100	No	PTE is below 100 ton/yr. See worksheet "PTO 5686"
890036	Abrasive Blast Booth: Clemco, Model 10X20X10 BR BELT REC, S/N PRJ10766; Blast Machine: Clemco, Model 2024FLG	PM	16 Clemco cartridge filters, Model 23744, 99.7% control efficiency; aluminum oxide abrasive blast media with abrasive recycling system	Yes	0.1 gr/scf (Rule 52)				22.17	100	No	PTE is below 100 ton/yr. See worksheet "PTO 890036"
890037	Abrasive Blast Booth: Clemco, Model 10X20X10 BR BELT REC, S/N PRJ10766; Blast Machine: Clemco, Model 2024FLG	PM	16 Clemco cartridge filters, Model 23744, 99.7% control efficiency; aluminum oxide abrasive blast media with abrasive recycling system	Yes	0.1 gr/scf (Rule 52)				22.17	100	No	PTE is below 100 ton/yr. See worksheet "PTO 890037"
940175	CONTROLLED PYROLYSIS CLEANING FURNACE, MANUFACTURED BY POLLUTION CONTROL PRODUCTS CO., MODEL PTR640, S/N 3698	VOC	Secondary (afterburner)	No						25	No	The emission unit is not subject to any permit or regulatory emission standard.
940175	CONTROLLED PYROLYSIS CLEANING FURNACE, MANUFACTURED BY POLLUTION CONTROL PRODUCTS CO., MODEL PTR640, S/N 3698	PM	WATER SPRAY SMOKE CONTROL	No						100	No	The emission unit is not subject to any permit or regulatory emission standard.
901285	Abrasive Blast Booth: Clemco, Model 10X20X10 BR BELT REC, S/N PRJ10765; Blast Machine: Clemco, Model 2024FLG, S/N 66597	PM	16 Clemco cartridge filters, Model 23744, 99.7% control efficiency; aluminum oxide abrasive blast media	Yes	0.1 gr/scf (Rule 52)				22.17	100	No	PTE is below 100 ton/yr. See worksheet "PTO 901285"
976823	PYROLYSIS CLEANING FURNACE: POLLUTION CONTROL PRODUCTS, MODEL PRC-680, 96" X 102" X 124", NATURAL GAS FIRED, WITH A 400,000 BTU/HR PRIMARY BURNER AND A 550,000 BTU/HR AFTERBURNER, S/N 5038	VOC	Secondary (afterburner)	No						100	No	The emission unit is not subject to any permit or regulatory emission standard.

PTO 1055

Abrasive Blast Room

I. Blast System Information

<i>Blast Media Used</i>	Plastic
<i>Blast System</i>	Pirate Blast Machine Model SPR-6.5

II. Operating Schedule

	Maximum
<i>Minutes/Hour</i>	60
<i>Hours/Day</i>	24
<i>Days/Year</i>	365

III. Maximum (Worst Case) Abrasive Blast Material Usage

5/16 inch, 8 mm	Nozzle Size
125	psi, pressure at the nozzle
1	Number of Nozzles
1000	lb/hr
1000	lb/hr
0.5	ton/hr
12	ton/day
4380	tons/yr

Source: online search to correlate nozzle size and flow rate, Kennametal brochure
total maximum hourly rate

<https://catalogs.kennametal.com/infrastructure/Abrasive-Blast-Nozzles/C/>

V. Emission Factors

Pollutant	lb/ton
PM ₁₀	10

Source: A10 - ABRASIVE BLASTING, MISCELLANEOUS BLAST MATERIALS,

<https://www.sdapcd.org/content/dam/sdapcd/documents/permits/emissions-calculation/abrasive-blasting/APCD-Misc-Blast-Medium-Site-Specific-Controls.pdf>

VI. Emission Calculations

Maximum Emissions			
	Hourly <i>lbs/hr</i>	Daily <i>lbs/day</i>	Yearly <i>lbs/yr</i>
PM ₁₀	5.000	120.00	43,800
			Yearly <i>Ton/yr</i>
			21.90

APCD1995-PTO-005686

Fiberglass Sanding / Preparation room

Operation:	2,080 hours per year 8 hours per day 2,000 lb/ton	From PTO 5686 Conservatively estimated one shift Estimated by doubling the amount from the original application (see below)
Throughput:	100 lbs/day	
PM EF	1 lb/ton 12.5 lb/hour 26000 lb/year 13 ton/year	From Engineering Analysis (see below). PTO 5686 Legacy application
PM emissions, uncontrolled, ton/year	0.0065	

EMISSION FACTOR OF 1 LB/TON USED (REF.
1974 EMISSIONS INVENTORY PACKAGE, ESTIMATE)

THE SUPERVISOR IN BLDG 126 ESTIMATED
THE WORK HAD SLOWED TO APPROX 1 ROLL
(50 LBS) of fiberglass per day.

$$\frac{50 \text{ LBS}}{\text{DAY}} \div 8 \text{ HRS/DAY} = 6.25 \text{ \#/HR} \div 2000 \text{ \#/TON} \times 1 \text{ \#/TON} = .003 \text{ \#/HR}$$

$$\frac{50 \text{ LBS}}{\text{DAY}} \div 2000 \text{ \#/TON} \times 1 \text{ \#/TON} = .025 \text{ \#/DAY}$$

$$.025 \text{ \#/DAY} \times 260 \text{ WORKING DAYS} = 6.5 \text{ \#/YR}$$

USING 73% EFF FOR THE CYCLONE (REF.
PROCESSIES FOR AIR POLLUTION CONTROL -
G. NON HEBEL)

$.003 \times .27 =$	$.0008 \text{ \#/HR EMISSIONS}$	
$.025 \times .27 =$	$.007 \text{ \#/DAY}$	11
$6.5 \times .27 =$	1.76 \#/YR	11

PTOs 890036 and 890037
Abrasive Blast Booth

I. Blast System Information

<i>Blast Media Used</i>	aluminum oxide
<i>Blast System</i>	Blast Machine: Clemco, Model 2024FLG

II. Operating Schedule

	Maximum
<i>Minutes/Hour</i>	60
<i>Hours/Day</i>	24
<i>Days/Year</i>	365

III. Maximum (Worst Case) Abrasive Blast Material Usage

1/4 inch, 6.35 mm	Nozzle Size
125	psi, pressure at the nozzle
1	Number of Nozzles
675	lb/hr
675	lb/hr
0.3375	ton/hr
8.1	ton/day
2956.5	tons/yr

Source: online search to correlate nozzle size and flow rate, Kennametal brochure
total maximum hourly rate

<https://catalogs.kennametal.com/infrastructure/Abrasive-Blast-Nozzles/C/>

V. Emission Factors

Pollutant	lb/ton
PM ₁₀	15

A01 - ABRASIVE BLASTING, ALUMINUM OXIDE, UNCONTROLLED

<https://www.sdapcd.org/content/dam/sdapcd/documents/permits/emissions-calculation/abrasive-blasting/APCD-Alluminum-Oxide-Blast-Medium-Site-Specific-Controls.pdf>

VI. Emission Calculations

Maximum Emissions				
	Hourly <i>lbs/hr</i>	Daily <i>lbs/day</i>	Yearly <i>lbs/yr</i>	Yearly <i>Ton/yr</i>
PM ₁₀	5.063	121.50	44,348	22.17

PTO 901285
Abrasive Blast Booth

I. Blast System Information

<i>Blast Media Used</i>	aluminum oxide
<i>Blast System</i>	Blast Machine: Clemco, Model 2024FLG

II. Operating Schedule

	Maximum
<i>Minutes/Hour</i>	60
<i>Hours/Day</i>	24
<i>Days/Year</i>	365

III. Maximum (Worst Case) Abrasive Blast Material Usage

1/4 inch, 6.35 mm	Nozzle Size
125	psi, pressure at the nozzle
1	Number of Nozzles
675	lb/hr
675	lb/hr
0.3375	ton/hr
8.1	ton/day
2956.5	tons/yr

Source: online search to correlate nozzle size and flow rate, Kennametal brochure
total maximum hourly rate

<https://catalogs.kennametal.com/infrastructure/Abrasive-Blast-Nozzles/C/>

V. Emission Factors

Pollutant	lb/ton
PM ₁₀	15

A01 - ABRASIVE BLASTING, ALUMINUM OXIDE, UNCONTROLLED

<https://www.sdapcd.org/content/dam/sdapcd/documents/permits/emissions-calculation/abrasive-blasting/APCD-Alluminum-Oxide-Blast-Medium-Site-Specific-Controls.pdf>

VI. Emission Calculations

Maximum Emissions				
	Hourly <i>lbs/hr</i>	Daily <i>lbs/day</i>	Yearly <i>lbs/yr</i>	Yearly <i>Ton/yr</i>
PM ₁₀	5.063	121.50	44,348	22.17