



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: March 17, 2005
RE: Precision Technology of Warsaw, LLC / 085-17823-00094
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FN-REGIS.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

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Governor

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March 17, 2005

Mr. Glenn Bundy
Precision Technology of Warsaw, LLC
515 Argonne Road
Warsaw, Indiana 46580

Re: Registered Construction and Operation Status,
085-17823-00094

Dear Mr. Bundy:

The application from Precision Technology of Warsaw, LLC, received on June 13, 2003, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following emission units, located at 515 Argonne Road, Warsaw, Indiana 46580, are classified as registered:

- (a) One (1) glass bead blaster, identified as B1, constructed in 1980, with a maximum glass bead input rate of 75 pounds per hour.
- (b) One (1) glass bead blaster, identified as B2, constructed in 2002, with a maximum glass bead input rate of 60 pounds per hour.
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (1) Four (4) natural gas-fired space heaters, identified as HV1 through HV4, each with a maximum heat input capacity of 0.13 MMBtu/hr.
 - (2) Four (4) natural gas-fired space heaters, identified as HV5 through HV8, each with a maximum heat input capacity of 0.2 MMBtu/hr.
 - (3) Two (2) natural gas-fired space heaters, identified as HV9 and HV10, each with a maximum heat input capacity of 0.195 MMBtu/hr.
- (d) One (1) TIG welding station, with a maximum wire consumption of 1.0 pounds per hour.
- (e) One (1) passivation tank, identified as T1, constructed in 2004, with a maximum capacity of 50 gallons of nitric acid (less than 80%), controlled by a fume scrubber S1, and exhausting through stack V1.
- (f) One (1) electropolish tank, identified as T2, constructed in 2004, with a maximum capacity of 50 gallons of phosphoric acid or sulfuric acid, controlled by a fume scrubber S1, and exhausting through stack V1.
- (g) One (1) passivation tank, identified as T3, constructed in 2004, with a maximum capacity of 60 gallons of citric acid.

- (h) One (1) ultrasonic cleaning facility, identified as U1, using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (i) One (1) Xyglo unit, identified as Z1, with a maximum catalyst usage of 0.33 pounds per month.

The following conditions shall be applicable:

1. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
 - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
2. Pursuant to 326 IAC 6-3-2(e)(2) (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the each of the blasters shall be limited to 0.551 lbs/hr when the process weight rate for each blaster is less than 100 lbs/hr.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3)). The annual notice shall be submitted to:

**Compliance Data Section
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/YC

cc: File – Kosciusko County
Kosciusko County Health Department
Air Compliance – Doyle Houser
Northern Regional Office
Permit Tracking – Sara Cloe
Compliance Data Section
Office of Enforcement

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3).

Company Name:	Precision Technology of Warsaw, LLC
Address:	515 Argonne Road
City:	Warsaw, Indiana 46580
Authorized individual:	Glenn Bundy
Phone #:	(574) 269-1120
Registration #:	085-17823-00094

I hereby certify that Precision Technology of Warsaw, LLC is still in operation and is in compliance with the requirements of Registration 085-17823-00094.

Name (typed):
Title:
Signature:
Date:

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	Precision Technology of Warsaw, LLC
Source Location:	515 Argonne Road, Warsaw, Indiana 46580
County:	Kosciusko
SIC Code:	3842
Registration No.:	085-17823-00094
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed an application from Precision Technology of Warsaw, LLC, relating to the construction and operation of an electropolish and passivation plant.

Permitted Emission Units and Pollution Control Equipment

There are no permitted facilities operating at this source.

Unpermitted Emission Units and Pollution Control Equipment

The source also consists of the following unpermitted emission units:

- (a) One (1) glass bead blaster, identified as B1, constructed in 1980, with a maximum glass bead input rate of 75 pounds per hour.
- (b) One (1) glass bead blaster, identified as B2, constructed in 2002, with a maximum glass bead input rate of 60 pounds per hour.

Exempt Emission Units and Pollution Control Equipment

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (1) Four (4) natural gas-fired space heaters, identified as HV1 through HV4, each with a maximum heat input capacity of 0.13 MMBtu/hr.
 - (2) Four (4) natural gas-fired space heaters, identified as HV5 through HV8, each with a maximum heat input capacity of 0.2 MMBtu/hr.
 - (3) Two (2) natural gas-fired space heaters, identified as HV9 and HV10, each with a maximum heat input capacity of 0.195 MMBtu/hr.
- (b) One (1) TIG welding station, with a maximum wire consumption of 1.0 pounds per hour.
- (c) One (1) passivation tank, identified as T1, constructed in 2004, with a maximum capacity of 50 gallons of nitric acid (less than 80%), controlled by a fume scrubber S1, and exhausting through stack V1.

- (d) One (1) electropolish tank, identified as T2, constructed in 2004, with a maximum capacity of 50 gallons of phosphoric acid or sulfuric acid, controlled by a fume scrubber S1, and exhausting through stack V1.
- (e) One (1) passivation tank, identified as T3, constructed in 2004, with a maximum capacity of 60 gallons of citric acid.
- (f) One (1) ultrasonic cleaning facility, identified as U1, using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (g) One (1) Xyglo unit, identified as Z1, with a maximum catalyst usage of 0.33 pounds per month.

Existing Approvals

There are no air approvals issued to this source.

Enforcement Issue

- (a) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled "Unpermitted Emission Units and Pollution Control Equipment".
- (b) IDEM is aware that the source did not apply for a registration by December 25, 1999.
- (c) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

Stack Summary

Stack ID	Operation	Height (ft)	Diameter (ft)	Flow Rate (acfm)	Temperature (°F)
V1	Scrubber	10.5	0.54 x 0.77	390	70 - 90

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on June 13, 2003, with additional information received on February 4, 2004 and February 26, 2004.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 4)

Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of

material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential to Emit (tons/yr)
PM	24.3
PM-10	17.1
SO ₂	0.02
VOC	0.04
CO	0.63
NO _x	0.75

HAPs	Potential to Emit (tons/yr)
Total	Negligible

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of criteria pollutants is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-6.1.
- (d) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM and PM10 is within the range listed in 326 IAC 2-5.5-1(b)(1)(B), therefore the source is subject to the provisions of 326 IAC 2-5.5-1.
- (e) Fugitive Emissions
 Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

County Attainment Status

The source is located in Kosciusko County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

- (b) Kosciusko County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

- (b) Fugitive Emissions
Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	24.3
PM-10	17.1
SO ₂	0.02
VOC	0.04
CO	0.63
NO _x	0.75
Sulfuric Acid	0.03
Single HAP	Negligible
Combination HAPs	Negligible

- (a) This existing source is not a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater and it is not in one of the 28 listed source categories.

- (b) These emissions were based on the total potential to emit of the entire source (see Appendix A).

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This status is based on the potential to emit of the existing units.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.

- (b) All the tanks at this source were constructed after 1984. However, these tanks do not store volatile organic liquids. Therefore, the New Source Performance Standards for Volatile Organic Liquid Storage Vessels for which construction, reconstruction, or modification commenced after July 23, 1984 (326 IAC 12, 40 CFR 60.110b - 117b, Subpart Kb) are not applicable to this source.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.
- (d) The solvents used in the cleaning operation do not contain any halogenated HAP as defined in 40 CFR 63.460. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning (40 CFR Part 63.460 - 63.470, Subpart T) are not applicable to this source.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

The source was constructed in 1980 and modified in 2002 and 2004. The source is not in 1 of 28 source categories defined in 326 IAC 2-2-1(p)(1). Since its construction in 1980, this source has had a potential to emit of any regulated pollutant before controls less than two hundred and fifty (250) tons per year. Therefore, the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-4.1 (New Sources of Hazardous Air Pollutants)

The source was constructed in 1980 and modified in 2002 and 2004. Although modifications occurred after the applicability date for this rule, the potential to emit HAPs from the entire source is less than the major source thresholds. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Kosciusko County and the potential to emit of all criteria pollutants is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability – Blasters (B1 and B2)

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from the each of the blasters shall be limited to 0.551 lbs/hr when the process weight rate for each blaster is less than 100 lbs/hr.

State Rule Applicability – One (1) Welding Station

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The welding station at this source consumes less than 625 lbs/day of rod or wire. Therefore, the welding station at this source is exempt from the requirements of 326 IAC 6-3-2, pursuant to 326 IAC 6-3-1(b)(9).

State Rule Applicability – Tanks T1, T2 and T3

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source is not located in Clark, Floyd, Lake, or Porter County. Therefore, the requirements of 326 IAC 8-9-1 are not applicable to these tanks.

State Rule Applicability – Other Emission Units

There are no specifically applicable state requirements for other emission units at this source.

Conclusion

The operation of this electropolish and passivation plant shall be subject to the conditions of the Registration No.: 085-17823-00094.

**Appendix A: Emission Calculations
PM and PM10 Emissions
From the Glass Bead Blasters (B1 and B2)**

**Company Name: Precision Technology of Warsaw, LLC.
Address: 515 Argonne Rd., Warsaw, IN 46580
Registration: 085-17823-00094
Reviewer: ERG/YC
Date: March 1, 2004**

Type of Abrasive Used: Glass Bead

Unit ID	Max. Abrasive Usage (lbs/hr)	*PM Emission Factor (lbs/lbs)	PTE of PM before Control (lbs/hr)	PTE of PM before Control (tons/yr)	*PM10 Emission Factor (lbs/lbs PM)	PTE of PM10 before Control (lbs/hr)	PTE of PM10 before Control (tons/yr)
B1	75	0.041	3.08	13.5	0.70	2.15	9.43
B2	60	0.041	2.46	10.8	0.70	1.72	7.54
Total				24.2			17.0

* The emission factors are the ones for sand blasting from Air Quality Permits, Vol.1, Section 3 "Abrasive Blasting" (1991 Edition) by Stappa Alapco.

Methodology

PTE = Potential to Emit

PTE of PM/PM10 before Control (lbs/hr) = Max. Abrasive Usage (lbs/hr) x PM/PM10 Emission Factor (lbs/lbs)

PTE of PM/PM10 before Control (tons/yr) = Max. Abrasive Usage (lbs/hr) x PM/PM10 Emission Factor (lbs/lbs) x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations
 Natural Gas Combustion
 (MMBtu/hr < 100)
 From Ten (10) Space Heaters (HV1 through HV10)**

**Company Name: Precision Technology of Warsaw, LLC.
 Address: 515 Argonne Rd., Warsaw, IN 46580
 Registration: 085-17823-00094
 Reviewer: ERG/YC
 Date: March 1, 2004**

Heat Input Capacity
 MMBtu/hr
 1.71 (10 units total)

Potential Throughput
 MMCF/yr
 15.0

	Pollutant					
Emission Factor in lbs/MMCF	PM*	PM10*	SO ₂	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential to Emit in tons/yr	0.06	0.06	4.5E-03	0.75	0.04	0.63

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission Factors for NO_x: Uncontrolled = 100 lbs/MMCF.

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lbs/MMCF) x 1 ton/2000 lbs

Appendix A: Emission Calculations

PM and HAP Emissions From One (1) TIG Welding Station

Company Name: Precision Technology of Warsaw, LLC.

Address: 515 Argonne Rd., Warsaw, IN 46580

Registration: 085-17823-00094

Reviewer: ERG/YC

Date: March 1, 2004

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)			
			PM=PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr
WELDING										
Submerged Arc			0.0360	0.011						
Metal Inert Gas (MIG)(carbon steel)			0.0241	0.000034		0.00001				
Stick (E7018 electrode)			0.0211	0.0009						
Tungsten Inert Gas (TIG)(carbon steel)	1	1.0	0.0055	0.0005			0.006	0.001	0	0
Oxyacetylene(carbon steel)			0.0055	0.0005						

EMISSION TOTALS	PM = PM10	Mn	Ni	Cr
Potential Emissions (lbs/hr)	0.01	0.001	0.000	0.000
Potential Emissions (lbs/day)	0.13	0.012	0.000	0.000
Potential Emissions (tons/year)	0.02	0.002	0.000	0.000

*Emission factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

METHODOLOGY

Welding emissions (lbs/hr) = (# of stations) x (max. lbs of electrode used/hr/station) x (emission factor, lb. pollutant/lb. of electrode used)

Emissions (lbs/day) = emissions (lbs/hr) x 24 hrs/day

Emissions (tons/yr) = emissions (lbs/hr) x 8,760 hrs/year x 1 ton/2,000 lbs.

Total HAPS (lbs/hr)
0.001

Total HAPS
0.00
0.01
2.19E-03

Appendix A: Emission Calculations
SO₂ Emissions
From the Electropolish Tank T2

Company Name: Precision Technology of Warsaw, LLC.
Address: 515 Argonne Rd., Warsaw, IN 46580
Registration: 085-17823-00094
Reviewer: ERG/YC
Date: March 1, 2004

1. Process Description:

Control Equipment: Scrubber
 Fluid Stored: Sulfuric Acid Solution
 Sulfuric Acid Solution Evaporation Rate: 0.028 lbs/hr (provided by the source)
 Sulfuric Acid Content: 20% (provided by the source)
 Control Efficiency: 95.0%

2. Potential to Emit (PTE) Before Control:

Total Sulfuric Acid Loss = 0.028 lbs/hr x 8760 hr/yr x 1 ton/2000 lbs x 20% = **0.025 tons/yr**

Assume all sulfuric acid evaporated converts to SO₂.

PTE of SO₂ before Control (tons/yr) = 0.028 lbs/hr x 64 (mole weight of SO₂) / 98 (mole weight of H₂SO₄) = **0.016 tons/yr**

3. Potential to Emit (PTE) After Control:

PTE of SO₂ after Control (tons/yr) = 0.016 tons/yr x (1-95%) = **8.01E-04 tons/yr**