BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

NACME Steel Processing, L.L.C.,	
Petitioner,)
v.)
ILLINOIS ENVIRONMENTAL)
PROTECTION AGENCY,)
Respondent.)

PCB 13-12 (Permit Appeal)

PETITION FOR HEARING

Petitioner NACME Steel Processing, L.L.C. ("NACME"), by its attorneys, Reed Smith, LLP., petitions the Board for review of the Illinois Environmental Protection Agency's (the "Agency") final decision with regard to inclusion of contested conditions in a FESOP permit, and in support of its Petition states as follows:

Background

1. Petitioner is the owner/operator of a steel pickling facility located at 429 West 127th Street, Chicago, Illinois (the "Facility"). In connection with Facility processes, NACME applies rust preventative oil to a certain percentage of steel coils pickled at its Facility prior to shipment to customers.

2. On or about October 2005 NACME applied to the Agency for a Federally Enforceable State Operating Permit ("FESOP") for its Facility.

3. On or about the December 22, 2014 Agency issued a FESOP for NACME's facility containing various standard and special conditions. (a copy of the FESOP is attached as Exhibit A)

4. Two special conditions, 2a and 2b, were included in the FESOP based on the Agency's incorrect conclusion, previously debated at length as set forth below, that NACME engages in a metal coil surface coating operation at its Facility because it applies rust preventative oil to some steel coils before shipment to customers. Conditions 2a and 2b state in relevant part:

2a) The coil coater associated with the steel coil pickling line is subject to the New Source Performance Standards (NSPS) for Metal Coil Surface Coating, 40 CFR 60 Subparts A and TT. The Illinois EPA is administering the NSPS in Illinois on behalf of the United States EPA under a delegation agreement. Pursuant to 40 CFR 60.460(a) and (b), the provisions of 40 CFR 60 Subpart TT apply to the following affected facilities in a metal coil surface coating operation: each prime coat operation, each finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously that commences construction, modification, or reconstruction after January 5, 1981.

2b) Pursuant to 40 CFR 60.462(a)(1), on and after the date on which 40 CFR 60.8requires a performance test to be completed, each owner or operator subject to 40 CFR 60 Subpart TT shall not cause to be discharged into the atmosphere more than 0.28 kilogram VOC per liter (kg VOC/1) of coating solids applied for each calendar month for each affected facility that does not use an emission control device(s).

5. Under the Illinois Environmental Protection Act (415 ILCS 5 (2010)), (the "Act"), the Agency is the permitting authority responsible for administering Illinois' regulatory programs to protect the environment. If the Agency denies a permit or grants one with conditions, the permit applicant may appeal the Agency's decision to the Board. *See* 415 ILCS 5/4, 5, 40(a)(1) (2010); 35 Ill. Adm. Code 105 Subpart D.

6. NACME hereby appeals the Agency's inclusion in the FESOP of conditions 2a and 2b.

Previous Proceedings

7. This cause previously came to the Board on NACME's petition seeking review of an *identical draft* FESOP issued by the Agency on April 26, 2012 (PCB 13-7).

(Attached as Exhibit B) The Board held NACME's petition was premature in its Order dated November 15, 2012. (Exhibit C)

8. In its previous efforts to convince the Agency of its error, NACME's air emissions consultant, Mostardi Platt, provided comments to the Agency analyzing the language contained in the misapplied Metal Coating standard. NACME pointed out, among other things, that its Facility does not engage in either prime coating or finish coating operations within the meaning of the Metal Coating standard and, as such, was not subject to the standard. NACME repeats and incorporates by reference the contents of its June 14, 2012 comment letter as though fully set forth herein. (Attached hereto as Exhibit D)

9. In a response e-mail dated June 15, 2012 the Agency defended special condition 2a by citing an EPA Applicability Determination ("AD") dated September 19, 1998. (the Agency's June 15, 2012 letter including the AD is attached hereto as Exhibit E)

10. By Mostardi Platt response letter dated June 26, 2012 (transmitted by e-mail dated June 27), as part of further negotiations in attempt to get the Agency to change its mind, NACME noted that the EPA AD was inapplicable to the Facility on its face. The EPA AD does not address at all the issue of what constitutes a coating operation within the meaning of the Metal Coating standard. Rather it focuses on an entirely unrelated issue, the alleged failure to appropriately measure VOC emissions from a plant under the applicable performance test requirements. NACME also set forth additional detailed arguments why the Agency's position is incorrect. NACME repeats and incorporates by reference the contents of its June 26, 2012 comment letter as though fully set forth herein. (NACME's June 26, 2012 comment letter is attached hereto as Exhibit F)

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The Agency's Error

11. The Agency is plainly wrong in its decision to apply the Metal Coating standard to NACME's Facility because NACME does not engage in "coating operations" as that phrase is used in the Metal Coating standard.

12. The construction of administrative rules and regulations is governed by the same standard as the construction of statutes. *Bridgestone/Firestone, Inc. v Doherty,* 711 N.E. 2d 799, 804 (1999). In cases involving the interpretation of a statute by an agency charged with administering it, the agency's interpretation is afforded considerable deference, but it is not binding on the court and will be rejected if erroneous. *Denton v Civil Service Comm'n,* 679 N.E.2d 1234, 1236 (1997). The cardinal rule of statutory construction is to ascertain and give effect to the intent of the legislature. *Solich v George & Anna Portes Cancer Prevention Center of Chicago, Inc,* 630 N.E. 2d 820, 822 (1994) The words of a statute are given their plain and commonly understood meanings. *Forest City Erectors v Industrial Comm'n,* 636 N.E. 2d 969, 972 (1994)

13. With these rules of construction in mind, the Metal Coating standard, 40 CFR60.460 Subpart TT states in relevant part:

"The provisions of this subpart apply to the following affected facilities in a metal coil surface operation: each prime coat operation, each finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously." (40 CFR 60.460(a))

Further, pursuant to 40 CFR 60.461, the following specific definitions apply to such coating operations:

"Prime coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the initial coating(s) on the surface of the metal coil

Finish coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the final coating(s) on the surface of the metal coil. Where only a single coating is applied to the metal coil, that coating is considered a finish coat."

- 14. NACME will prove at hearing:
 - a) In applying rust preventative oil to steel coils at its Facility, NACME applies neither a prime coat nor a finish coat, as required for application of the Metal Coating standard;
 - b) NACME's Facility contains neither a curing oven nor a quench station, as required for application of the Metal Coating standard; and
 - c) NACME does not dry or cure either an initial or final coating on the surface of any metal coil, as required for application of the Metal Coating standard.

15. In a Construction Permit issued by the Agency for NACME's Facility on April 26, 2012, the Agency recognizes the above cited definitional prerequisites for application of the Metal Coating standard (i.e.,Subpart TT), specifically citing the "prime" and "finish coat operation" language. Later, in the exchanges with NACME outlined above, IEPA wholly ignored these specific provisions and instead generally argued, with no basis in law, that "protective oil application operations" are subject to Subpart TT. (the Construction Permit is attached as part of Exhibit G hereto)

16. Further, the rust preventative oil applied by NACME remains on the pickled steel to prevent corrosion prior to use by NACME's customers and does not contain any solids, whereas the Metal Coating standard imposes a VOM content limit that is expressed in units of pounds VOM per pound of *solids*. (40 CFR 60.461; emphasis supplied)

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17. The Agency's interpretation of the Subpart TT is, moreover, completely at odds with the interpretation given to the standard in decisions by a sister state agency, the Indiana Department of Environmental Management ("IDEM"), which because of the parallel fact scenarios involved in those decisions, the Board should find persuasive here. In at least three different permit decisions regarding steel processing facilities in Indiana, IDEM made the following findings.

- "This source [applying a rust preventative surface coating] is not subject to the requirements of the New Source Performance Standard...40 CFR 60.640, Subpart TT... which applies to prime coat, finish coat and prime and finish coat combined operations because it is not a prime or finish coat operation. (See, *Exempt Construction and Operation Status approval, Kastle Metal Processing, January 2006, Technical Support Document, page 4 of 5;* attached hereto as Exhibit H)
- "The application of rust preventative oils to the steel coils is not subject to the New Source Performance Standard...(40 CFR Part 60, Subpart TT) because this rule only applies to coating operations which use a curing oven and quench station as part of the process" (See, *Part 70 Construction Permit, Ispat Inland, April 1999, Technical Support Document for New Construction and Operation, page 4 of 6;* attached hereto as Exhibit I)
- "The definition of a finish coat operation is the coating application station, curing oven and quench station used to apply and dry or cure the final coating on the surface of the metal coil. The metal stamping press line only involves coating the metal coil with a petroleum lubrication oil ...there are no curing ovens or quench stations associated with this process. The metal stamping press line does not fall under the definition of a finish coat operation; therefore, the requirements of 40 CFR 60.640, Subpart TT do not apply.

(See, FESOP, Syndicate Sales 1997, Techical Support Document, page 5 of 12; attached hereto as Exhibit J)

18. For all of the above reasons the Metal Coating standard does not apply to operations conducted at NACME's facility and the Agency's final decision that it does should be rejected by the Board.

Accordingly, Petitioner requests a hearing venued in the City of Chicago concerning the contested special condition included in NACME's FESOP and for appropriate relief including, but not limited to, removal of the unsupported conditions 2a and 2b from NACME's FESOP permit.

Dated: January 26, 2015

Respectfully submitted,

NACME STEEL PROCESSING, L.L.C., Petitioner

By: Edward Walst One of Its Attorney

Edward Walsh ReedSmith, LLP 10 South Wacker Drive Suite 4000 Chicago, Illinois 60606 (312) 207-1000

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CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that on January 26, 2015, I served true and correct copies of a Petition for Hearing upon the persons and by the methods as follows:

[Electronic Filing]

John T. Therriault, Assistant Clerk Illinois Pollution Control Board 100 West Randolph Street Suite 11-500 Chicago, IL 60601

[First Class U.S. Mail]

Nancy J. Tikalsky Assistant Attorney General Office of the Illinois Attorney General Environmental Bureau 69 West Washington Street, Suite 1800 Chicago, IL 60602

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Edward Walsh ReedSmith, LLP 10 South Wacker Drive Chicago, IL 60606-7507 (312) 207-1000

EXHIBIT A

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829 PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/785-1705

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE

PERMITTEE

NACME Steel Processing, LLC Attn: John DuBrock 429 West 127th Street Chicago, Illinois 60628

Application No.: 05100052I.D. No.: 031600FWLApplicant's Designation:Date Received: October 25, 2005Subject: Steel Pickling Line ModificationDate Issued: December 22, 2014Date Issued: December 22, 2014Expiration Date: December 22, 2024Location: 429 West 127th Street, Chicago, Cook County 60628

This Permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of one (1) steel coil pickling line comprised of four (4) pickling tanks and coil washer exhausted to turbo-tunnel enclosure and three (3) 14,000 gallon hydrochloric acid storage tanks all controlled by a scrubber and one (1) steel coil oil coater pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- la. This federally enforceable state operating permit is issued:
 - 1. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 10 tons/year for any single Hazardous Air Pollutants (HAP), and 25 tons/year for any combination of such HAPs). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit are described in Attachment A.
 - ii. To establish federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP) and 25 tons/year of any combination of such HAPs so that the source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart CCC and the NESHAP for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSSS.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permit(s) for this location.

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- 2a. The coil coater associated with the steel coil pickling line is subject to the New Source Performance Standards (NSPS) for Metal Coil Surface Coating, 40 CFR 60 Subparts A and TT. The Illinois EPA is administering the NSPS in Illinois on behalf of the United States EPA under a delegation agreement. Pursuant to 40 CFR 60.460(a) and (b), the provisions of 40 CFR 60 Subpart TT apply to the following affected facilities in a metal coil surface coating operation: each prime coat operation, each finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously that commences construction, modification, or reconstruction after January 5, 1981.
- b. Pursuant to 40 CFR 60.462(a)(1), on and after the date on which 40 CFR 60.8 requires a performance test to be completed, each owner or operator subject to 40 CFR 60 Subpart TT shall not cause to be discharged into the atmosphere more than 0.28 kilogram VOC per liter (kg VOC/1) of coating solids applied for each calendar month for each affected facility that does not use an emission control device(s).
- 3a. Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.
- b. Pursuant to 35 II1. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 meter (1000 foot) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- c. Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.
- d. Pursuant to 35 Ill. Adm. Code 212.316(c), no person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million tons/year of aggregate.
- e. Pursuant to 35 Ill. Adm. Code 212.316(f), unless an emission unit has been assigned a particulate matter, PM₁₀, or fugitive particulate matter emissions limitation elsewhere in this 35 Ill. Adm. Code 212.316 or in 35 Ill. Adm. Code 212 Subparts R or S, no person shall cause or allow

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fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent.

f. Pursuant to 35 Ill. Adm. Code 212.321(a), except as further provided in 35 Ill. Adm. Code Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).

- g. Pursuant to 35 Ill. Adm. Code 212.324(b), except as otherwise provided in 35 Ill. Adm. Code 212.324, no person shall cause or allow the emission into the atmosphere, of PM₁₀, from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period.
- 4a. Pursuant to 35 Ill. Adm. Code 218.204(d), except as provided in 35 Ill. Adm. Code 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for Coil Coating. Except as otherwise provided in 35 Ill. Adm. Code 218.204(a), (c), (g), (h), (j), (l), (n), (p), and (q), compliance with the emission limitations is required on and after March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with 35 Ill. Adm. Code 218 Subpart F must be demonstrated through the applicable coating analysis test methods and procedures specified in 35 Ill. Adm. Code 218.105(a) and the recordkeeping and reporting requirements specified in 35 Ill. Adm. Code 218.211(c) except where noted. The emission limitations are as follows:

Coil Coating	kg/l	lb/gal
-	0.20	(1.7)

- b. Pursuant to 35 III. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hour (8 lbs/hour) of organic material into the atmosphere from any emission unit, except as provided in 35 III. Adm. Code 218.302, 218.303, or 218.304 and the following exception: If no odor nuisance exists the limitation of 35 III. Adm. Code 218 Subpart G shall only apply to photochemically reactive material.
- 5a. This permit is issued based on the steel coil pickling line at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart

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CCC. This is a result of the federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.

- b. This permit is issued based on coil coater associated with the existing steel coil pickling line at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSSS. This is a result of the federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.
- 6a. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hr (25 mph). Determination of wind speed for the purposes of this rule shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to this rule is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.
- b. Pursuant to 35 Ill. Adm. Code 212.324(d), the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, 35 Ill. Adm. Code 212.324(d) is not a defense finding of a violation of the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c).
- 7a. This permit is issued based on the solvent cleaning operations at this source not being subject to the requirements of 35 Ill. Adm. Code 218.187(b). Pursuant to 35 Ill. Adm. Code 218.187(a)(1), on and after January 1, 2012: Except as provided in 35 Ill. Adm. Code 218.187(a)(2), the requirements of 35 Ill. Adm. Code 218.187 shall apply to all cleaning operations that use organic materials at sources that emit a total of 226.8 kg per calendar month (500 lbs per calendar month) or more of VOM, in the absence of air pollution control equipment, from cleaning operations at the source other than cleaning operations identified in 35 Ill. Adm. Code 218.187(a)(2). For purposes of 35 Ill. Adm. Code 218.187, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including but not limited to spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning, at sources with emission units;
- b. Pursuant to 35 Ill. Adm. Code 218.209, no owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 is

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required to meet the limitations of 35 Ill. Adm. Code 218 Subpart G (35 Ill. Adm. Code 218.301 or 218.302), after the date by which the coating line is required to meet 35 Ill. Adm. Code 218.204.

- 8. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 9a. Pursuant to 35 Ill. Adm. Code 212.306, all normal traffic pattern access areas surrounding storage piles specified in 35 Ill. Adm. Code 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 Ill. Adm. Code 212.309, 212.310 and 212.312.
- b. Pursuant to 35 III. Adm. Code 212.309(a), the emission units described in 35 III. Adm. Code 212.304 through 212.308 and 35 III. Adm. Code 212.316 shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 III. Adm. Code 212.310 and 212.312, and prepared by the owner or operator and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.
- c. Pursuant to 35 Ill. Adm. Code 212.310, as a minimum the operating program shall include the following:
 - i. The name and address of the source;
 - ii. The name and address of the owner or operator responsible for execution of the operating program;
 - iii. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source;
 - iv. Location of unloading and transporting operations with pollution control equipment;
 - v. A detailed description of the best management practices utilized to achieve compliance with 35 Ill. Adm. Code 212 Subpart K, including an engineering specification of particulate collection

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equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized;

- vi. Estimated frequency of application of dust suppressants by location of materials; and
- vii. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program.
- d. Pursuant to 35 Ill. Adm. Code 212.312, the operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 Ill. Adm. Code 212 Subpart K and shall be submitted to the Illinois EPA for its review.
- e. Pursuant to 35 Ill. Adm. Code 212.324(f), for any process emission unit subject to 35 Ill. Adm. Code 212.324(a), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in 35 Ill. Adm. Code 212.324 shall be met at all times. 35 Ill. Adm. Code 212.324 shall not affect the applicability of 35 Ill. Adm. Code 201.149. Proper maintenance shall include the following minimum requirements:

i. Visual inspections of air pollution control equipment;

- ii. Maintenance of an adequate inventory of spare parts; and
- iii. Expeditious repairs, unless the emission unit is shutdown.
- 10a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
 - b. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the scrubber and turbo-tunnel enclosure such that scrubber and turbo-tunnel enclosure are kept in proper working condition and not cause a violation the Environmental Protection Act or regulations promulgated therein.
 - c. The scrubber and turbo-tunnel enclosure shall be in operation at all times when the associated emission units are in operation and emitting air contaminants.
 - d. The scrubber shall be equipped with a monitoring device that continuously indicates and records the make-up water flow and pressure drop across the scrubber. The Permittee shall calibrate, maintain, and operate the scrubber monitoring device according to the manufacturer's specifications.

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11a.

11a.	a. This permit is issued based on negligible emissions of hydrogen chloride (HCl) from the steel coil pickling line and three hydroch acid storage tanks. For this purpose, HCl emission shall not exce nominal emission rates of 0.1 lb/hour and 0.44 ton/year. These line are based on the maximum production rate, the most recent stack te data and the following operational limits:				hydrogen ree hydrochloric ll not exceed . These limits nt stack test
	i.	Steel Coil 1,050,000 t	Throughput: 120 ons/year;	tons/hour, 89,000 tons	s/month,
	ii.	Hydrochlori tons/year;	c Acid Usage: 2,	510 lbs/hour, 930 tons	s/month, 11,000
	iii.	Maximum HC1	concentration in	pickling tanks: 16%;	
	iv.	Maximum pic	kling tanks tempe:	rature: 190°F;	
	v.	Scrubber ma	ke-up water flow n	no less than 1.88 gall	ons/minute; and
	vi.	Pressure dr	op across the scru	ubber no more than 9.1	.5″ w.c.
b.	The VOM usage and VOM emission from the oil coater shall not exceed the following limits:				
		VOM	Usage	VOM Emis	sions
	(To	ons/Month)	<u>(Tons/Year)</u>	(Tons/Month)	(Tons/Year)
		1.27	12.70	1.27	12.70

These limits are based on the maximum material usage, the maximum VOM and HAP content of the materials, and the maximum emissions determined by a material balance. The VOM and HAP emissions shall be determined from the following equation:

$\mathbf{E} = \sum (\mathbf{V}_i \times \mathbf{C}_i),$

Where:

E = VOM or HAP emissions (tons);

 $V_i = individual coating usage (tons); and :$

- $C_i =$ VOM or HAP content of the each individual coating (weight fraction).
- c. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act from the source shall not exceed 0.79 tons/month and 7.9 tons/year of any single HAP and 1.31 tons/month and 13.14 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirements to obtain a CAAPP permit from the Illinois EPA, the NESHAP for Steel Pickling - HCl Process

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Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart CCC, and the NESHAP for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSSS.

- d. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 12a. Pursuant to 40 CFR 60.8(a), at such other times as may be required by the Illinois EPA or USEPA under section 114 of the Clean Air Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Illinois EPA or USEPA a written report of the results of such performance test(s).
 - b. Pursuant to 40 CFR 60.8(b), performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart of 40 CFR Part 60 unless the Illinois EPA or USEPA:
 - i. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
 - ii. Approves the use of an equivalent method;
 - iii. Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance;
 - iv. Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Illinois EPA's or USEPA's satisfaction that the affected facility is in compliance with the standard; or
 - v. Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Illinois EPA's or USEPA's authority to require testing under section 114 of the Clean Air Act.
 - c. Pursuant to 40 CFR 60.8(c), performance tests shall be conducted under such conditions as the Illinois EPA or USEPA shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Illinois EPA or USEPA such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

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- d. Pursuant to 40 CFR 60.8(e), the owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:
 - i. Sampling ports adequate for test methods applicable to such facility. This includes:
 - A. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test 1 methods and procedures; and
 - B. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
 - ii. Safe sampling platform(s).
 - iii. Safe access to sampling platform(s).
 - iv. Utilities for sampling and testing equipment.
- 13a. Pursuant to 40 CFR 60.463(b), the owner or operator of an affected facility shall conduct an initial performance test as required under 40 CFR 60.8(a) and thereafter a performance test for each calendar month for each affected facility according to the procedures in 40 CFR 60.463.
 - Pursuant to 40 CFR 60.463(c)(1), the owner or operator shall use the b. following procedures for determining monthly volume-weighted average emissions of VOC's in kg/l of coating solids applied. An owner or operator shall use the following procedures for each affected facility that does not use a capture system and control device to comply with the emission limit specified under 40 CFR 60.462(a)(1). The owner or operator shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Illinois EPA or USEPA may require the owner or operator who uses formulation data supplied by the manufacturer of the coatings to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine the volume of coating and the mass of VOC-solvent added to coatings from company records on a monthly basis. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each affected facility by using the average dry weight of coating and the surface area coated by each affected and existing facility or by other procedures acceptable to the Illinois EPA or USEPA.
 - i. Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied during each calendar month for each affected facility, except as provided

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under 40 CFR 60.463(c)(1)(iv). The weighted average of the total mass of VOC's used per unit volume of coating solids applied each calendar month is determined by the following procedures.

A. Calculate the mass of VOC's used $(M_o + M_d)$ during each calendar month for each affected facility by using Equation 1 in 40 CFR 60.463(c)(1)(i)(A).

$$\mathbf{M}_{o} + \mathbf{M}_{d} = \sum_{i=1}^{n} \mathbf{L}_{ci} \mathbf{D}_{ci} \mathbf{W}_{oi} + \sum_{j=1}^{m} \mathbf{L}_{dj} \mathbf{D}_{dj} \qquad \text{Equation 1}$$

 $(SL_{dj}D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received)

Where:

n is the number of different coatings used during the calendar month, and

m is the number of different VOC solvents added to coatings used during the calendar month.

в.

Calculate the total volume of coating solids used (L_s) in each calendar month for each affected facility by the following equation:

$$L_s = \sum_{i=1}^{n} V_{si} L_{ci} \qquad \text{Equation 2}$$

Where:

n is the number of different coatings used during the calendar month.

C. Calculate the volume-weighted average mass of VOC's used per unit volume of coating solids applied (G) during the calendar month for each affected facility by the following equation:

$$G = \frac{M_o + M_d}{L_s}$$
 Equation 3

ii. Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during the calendar month for each affected facility by the following equation:

$$N = G$$
 Equation 4

iii. Where the volume-weighted average mass of VOC's discharged to the atmosphere per unit volume of coating solids applied (N) is equal

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to or less than 0.28 kg/l, the affected facility is in compliance.

iv. If each individual coating used by an affected facility has a VOC content, as received, that is equal to or less than 0.28 kg/l of coating solids, the affected facility is in compliance provided no VOC's are added to the coatings during distribution or application.

- 14a. Pursuant to 40 CFR 60.466(a)(1), the reference methods in Appendix A to 40 CFR Part 60, except as provided under 40 CFR 60.8(b), shall be used to determine compliance with 40 CFR 60.462 as follows: Method 24, or data provided by the formulator of the coating, shall be used for determining the VOC content of each coating as applied to the surface of the metal coil. In the event of a dispute, Method 24 shall be the reference method. When VOC content of waterborne coatings, determined by Method 24, is used to determine compliance of affected facilities, the results of the Method 24 analysis shall be adjusted as described in Section 12.6 of Method 24;
 - b. Pursuant to 40 CFR 60.466(b), for Method 24, the coating sample must be at least a 1-liter sample taken at a point where the sample will be representative of the coating as applied to the surface of the metal coil.
- 15a. Pursuant to 35 III. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or

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ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

- b. Testing required by Conditions 16 and 17 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
- 16. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.
- 17. Pursuant to 35 Ill. Adm. Code 218.211(a), the VOM content of each coating shall be determined by the applicable test methods and procedures specified in 35 Ill. Adm. Code 218.105 to establish the records required under 35 Ill. Adm. Code 218.211.
- 18. Pursuant to 40 CFR 60.464(a), where compliance with the numerical limit specified in 40 CFR 60.462(a)(1) or (2) is achieved through the use of low VOC-content coatings without the use of emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, the owner or operator shall compute and record the average VOC content of coatings applied during each calendar month for each affected facility, according to the equations provided in 40 CFR 60.463.
- 19a. Pursuant to 40 CFR 60.7(b), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
 - b. Pursuant to 40 CFR 60.7(f), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
- 20. Pursuant to 40 CFR 60.465(e), each owner or operator subject to the provisions of 40 CFR 60 Subpart TT shall maintain at the source, for a period of at least 2 years, records of all data and calculations used

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to determine monthly VOC emissions from each affected facility and to determine the monthly emission limit, where applicable. Where compliance is achieved through the use of thermal incineration, each owner or operator shall maintain, at the source, daily records of the incinerator combustion temperature. If catalytic incineration is used, the owner or operator shall maintain at the source daily records of the gas temperature, both upstream and downstream of the incinerator catalyst bed.

- 21. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5. years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.q., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.
- 22a. Pursuant to 35 III. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 III. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
 - b. Pursuant to 35 III. Adm. Code 212.316(g)(l), the owner or operator of any fugitive particulate matter emission unit subject to 35 III. Adm. Code 212.316 shall maintain written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 III. Adm. Code. 212.316.

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- c. Pursuant to 35 Ill. Adm. Code 212.316(g)(2), the records required under 35 Ill. Adm. Code 212.316 shall include at least the following:
 - i. The name and address of the source;
 - ii. The name and address of the owner and/or operator of the source;
 - iii. A map or diagram showing the location of all emission units controlled including the location, identification, length, and width of roadways;
 - iv. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
 - v. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day; and
 - vi. A log recording incidents when control measures were not used and a statement of explanation.
- d. Pursuant to 35 Ill. Adm. Code 212.316(g) (3), copies of all records required by 35 Ill. Adm. Code 212.316 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records.
- e. Pursuant to 35 Ill. Adm. Code 212.316(g)(4), the records required under 35 Ill. Adm. Code 212.316 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
- f. Pursuant to 35 Ill. Adm. Code 212.324(g) (1), written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with 35 Ill. Adm. Code 212.324(f).
- g. Pursuant to 35 Ill. Adm. Code 212.324(g)(2), the owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emission limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what and corrective actions taken and what repairs were made.

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- h. Pursuant to 35 Ill. Adm. Code 212.324(g)(3), a written record of the inventory of all spare parts not readily available from local suppliers shall be kept an updated.
- i. Pursuant to 35 Ill. Adm. Code 212.324(g)(5), the records required under 35 Ill. Adm. Code 212.324 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
- 23a. Pursuant to 35 Ill. Adm. Code 218.187(e)(1)(B), the owner or operator of a source exempt from the limitations of 35 Ill. Adm. Code 218.187 because of the criteria in 35 Ill. Adm. Code 218.187(a)(1) shall on and after January 1, 2012, collect and record the following information each month for each cleaning operation, other than cleaning operations identified in 35 Ill. Adm. Code 218.187 (a)(2):
 - i. The name and identification of each VOM-containing cleaning solution as applied in each cleaning operation;
 - ii. The VOM content of each cleaning solution as applied in each cleaning operation;
 - iii. The weight of VOM per volume and the volume of each as-used cleaning solution; and
 - iv. The total monthly VOM emissions from cleaning operations at the source.
 - b. Pursuant to 35 Ill. Adm. Code 218.187(e) (10), all records required by this 35 Ill. Adm. Code 218.187(e) shall be retained by the source for at least three years and shall be made available to the Illinois EPA upon request.
 - c. Pursuant to 35 Ill. Adm. Code 218.211(c)(2), any owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 other than 35 Ill. Adm. Code 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) and complying by means of 35 Ill. Adm. Code 218.204 shall comply with the following: On and after a date consistent with 35 Ill. Adm. Code 218.106, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day, unless otherwise specified, for each coating line and maintain the information at the source for a period of three years:
 - i. The name and identification number of each coating as applied on each coating line;
 - ii. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.

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- 24a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
 - i. Records addressing use of good operating practices for the scrubber and turbo-tunnel enclosure:
 - A. Records for periodic inspection of the scrubber and turbotunnel enclosure with date, individual performing the inspection, and nature of inspection; and
 - B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
 - ii. Daily HCl concentration in pickling tanks (weight %);
 - iii. Daily pickling tank temperature (°F);
 - iv. Daily scrubber make-up water flow (gallons/minute);
 - v. Daily pressure drop across the scrubber (in of w.c.);
 - vi. Steel process rate (tons/month and tons/year);
 - vii. Hydrochloric acid usage (gallons/month and gallons/year);
 - viii. Coating and cleanup solvent usage (tons/month and tons/year);
 - ix. The VOM and HAP content of each coating and cleanup solvent (% by weight);
 - x. Monthly and annual emissions of PM, VOM and HAP from the source with supporting calculations (tons/month and tons/year).
 - b. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.
- 25. Pursuant to 40 CFR 60.465(c), following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Illinois EPA or USEPA every calendar quarter of each instance in which the volume-weighted average of the local mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under 40 CFR 60.462. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Illinois EPA or USEPA semiannually.

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- 26a. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
 - b. Pursuant to 35 III. Adm. Code 212.316(g)(1), the owner or operator of any fugitive particulate matter emission unit subject to 35 III. Adm. Code 212.316 shall submit to the Illinois EPA an annual report containing a summary of the application of control measures as may be needed for compliance with the opacity limitations of 35 III. Adm. Code. 212.316.
 - c. Pursuant to 35 Ill. Adm. Code 212.316(g) (5), a quarterly report shall be submitted to the Illinois EPA stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Section. This report shall be submitted to the Illinois EPA 30 calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
- d. Pursuant to 35 III. Adm. Code 212.324(g)(4), copies of all records required by 35 III. Adm. Code 212.324 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA.
- 27a. Pursuant to 35 III. Adm. Code 218.187(e) (1) (C), the owner or operator of a source exempt from the limitations of 35 III. Adm. Code 218.187 because of the criteria in 35 III. Adm. Code 218.187(a) (1) shall comply with the following: Notify the Illinois EPA of any record that shows that the combined emissions of VOM from cleaning operations at the source, other than cleaning operations identified in 35 III. Adm. Code 218.187(a) (2), ever equal or exceed 226.8 kg/month (500 lbs/month), in the absence of air pollution control equipment, within 30 days after the event occurs.
 - b. Pursuant to 35 Ill. Adm. Code 218.211(c) (3), any owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 other than 35 Ill. Adm. Code 218.204(a) (1) (B), (a) (1) (C), (a) (2) (B), (a) (2) (C), or (a) (2) (D) and complying by means of 35 Ill. Adm. Code 218.204 shall comply with the following:
 - i. By a date consistent with 35 Ill. Adm. Code 218.106, or upon initial start-up of a new coating line, or upon changing the method of compliance from an existing subject coating line from

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35 Ill. Adm. Code 218.205, 35 Ill. Adm. Code 218.207, 35 Ill. Adm. Code 218.215, or 35 Ill. Adm. Code 218.216 to 35 Ill. Adm. Code 218.204; the owner or operator of a subject coating line shall certify to the Illinois EPA that the coating line will be in compliance with 35 Ill. Adm. Code 218.204 on and after a date consistent with 35 Ill. Adm. Code 218.106, or on and after the initial start-up date. The certification shall include:

- A. The name and identification number of each coating as applied on each coating line;
- B. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
- ii. On and after a date consistent with 35 Ill. Adm. Code 218.106, the owner or operator of a subject coating line shall notify the Illinois EPA in the following instances:
 - A. Any record showing violation of 35 Ill. Adm. Code 218.204 shall be reported by sending a copy of such record to the Illinois EPA within 30 days following the occurrence of the violation.
 - B. At least 30 calendar days before changing the method of compliance from 35 Ill. Adm. Code 218.204 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 218.211(d)(l) or (e)(l), as applicable. Upon changing the method of compliance from 35 Ill. Adm. Code 218.204 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Ill. Adm. Code 218.201 to 35 Ill. Adm. Code 218.201 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 218.211(d) or (e), as applicable.
- 28a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance or deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedances or deviation and efforts to reduce emissions and future occurrences.
 - b. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Illinois EPA Division of Air Pollution Control Compliance and Enforcement Section (#40) P.O. Box 19276 Springfield, IL 62794-9276

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and one (I) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Illinois EPA Division of Air Pollution Control - Regional Office 9511 West Harrison Des Plaines, Illinois 60016

If you have any questions on this permit, please contact Valeriy Brodsky at 217/785-1705.

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Date Signed:

12/22/2014

Raymond E. Pilapil Acting Manager, Permit Section Division of Air Pollution Control

REP:VJB:psj

cc: Illinois EPA, FOS Region 1 Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the steel coil pickling plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emission is below the level (e.g., 10 tons/year for any single HAP and 25 tons/year for any combination of such HAP}, at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is used and control measures are more effective than required in this permit.

	EMISSIONS (Tons/Year)			
	~		Single	Combined
Emission Unit	PM	VOM	HAP	HAPs
Steel Coil Pickling Line and Three				
Hydrochloric Acid Storage Tanks	0.44		0.44	0.44
Coil Coating		12.70		12.70
Totals	0.44	12.70	7.90	13.14

VJB:psj

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APC 161 Rev. March, 2001

	b. Does not release the Permittee from any liability for damage to person or property cause
	by or resulting from the construction, maintenance, or operation of the facilities;
	c. Does not take into consideration or attest to the structural stability of any unit or par of the project; and
	d. In no manner implies or suggests that the Illinois EPA (or its officers, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage installation, maintenance, or operation of the proposed equipment or facility.
6.	The facilities covered by this permit shall be operated in such a manner that the disposal of air contaminants collected by the equipment shall not cause a violation of the Environmenta Protection Act or regulations promulgated thereunder.
7 <u>-</u>	The Permittee shall maintain all equipment covered under this permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereuner.
	The Permittee shall maintain a maintenance record on the premises for each item of sin pollution control equipment. This records shall be made available to any agent of the Environmental Protection Agency at any time during normal working hours and/or operating hours. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.
•	No person shall cause or allow continued operation during malfunction, breakdown or startup of any emission source or related air pollution control equipment if such operation would cause a violation of an applicable emission standard or permit limitation. Should a malfunction breakdown or startup occur which results in emissions in excess of any applicable standard of permit limitation, the Permittee shall:
	a. Immediately report the incident to the Illinois EPA's Regional Field Operations Section Office by telephone, telegraph, or other method as constitutes the fastest available alternative, and shall comply with all reasonable directives of the Illinois EPA with respect to the incident;
	b. Maintain the following records for a period of no less than two (2) years:
	i. Date and duration of malfunction, breakdown, or startup,
-	ii. Full and detailed explanation of the cause,
	iii. Contaminants emitted and an estimate of quantity of emissions,
	iv. Measures taken to minimize the amount of emissions during the malfunction, breakdown or startup, and
	v. Measures taken to reduce future occurrences and frequency of incidents.
. I P S W	If the permit application contains a compliance program and project completion schedule, the Permittee shall submit a project completion status report within thirty (30) days of any date apecified in the compliance program and project completion schedule or at six month intervals, whichever is more frequent.
т а	he Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 nd 35 Ill. Adm. Code Part 254.

EXHIBIT B



217/785-1705

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE

PERMITTEE

NACME Steel Processing, LLC Attn: John DuBrock 429 West 127th Street Chicago, Illinois 60628

Application No.:05100052I.D. No.:031600FWLApplicant's Designation:Date Received:October 25, 2005Subject:Steel Pickling Line ModificationExpiration Date:Date Issued:Expiration Date:Location:429 West 127th Street, Chicago,Cook County 60628

This Permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of one (1) steel coil pickling line comprised of four (4) pickling tanks and coil washer exhausted to turbo-tunnel enclosure and three (3) 14,000 gallon hydrochloric acid storage tanks all controlled by a scrubber and one (1) steel coil oil coater pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This federally enforceable state operating permit is issued:

- i. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 10 tons/year for any single Hazardous Air Pollutants (HAP), and 25 tons/year for any combination of such HAPs). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit are described in Attachment A.
- ii. To establish federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP) and 25 tons/year of any combination of such HAPs so that the source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart CCC and the NESHAP for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSS.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.

c. This permit supersedes all operating permit(s) for this location.

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- 2a. The coil coater associated with the steel coil pickling line is subject to the New Source Performance Standards (NSPS) for Metal Coil Surface Coating, 40 CFR 60 Subparts A and TT. The Illinois EPA is administering the NSPS in Illinois on behalf of the United States EPA under a delegation agreement. Pursuant to 40 CFR 60.460(a) and (b), the provisions of 40 CFR 60 Subpart TT apply to the following affected facilities in a metal coil surface coating operation: each prime coat operation, each finish coat operation, and each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously that commences construction, modification, or reconstruction after January 5, 1981.
 - b. Pursuant to 40 CFR 60.462(a)(1), on and after the date on which 40 CFR 60.8 requires a performance test to be completed, each owner or operator subject to 40 CFR 60 Subpart TT shall not cause to be discharged into the atmosphere more than 0.28 kilogram VOC per liter (kg VOC/1) of coating solids applied for each calendar month for each affected facility that does not use an emission control device(s).
- 3a. Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.
- b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.
- c. Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.
- d. Pursuant to 35 Ill. Adm. Code 212.316(c), no person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate.
- Pursuant to 35 Ill. Adm. Code 212.316(f), unless an emission unit has been assigned a particulate matter, PM₁₀, or fugitive particulate matter emissions limitation elsewhere in this 35 Ill. Adm. Code 212.316 or in 35 Ill. Adm. Code 212 Subparts R or S, no person shall cause or allow

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fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent.

f. Pursuant to 35 Ill. Adm. Code 212.321(a), except as further provided in 35 Ill. Adm. Code Part 212, no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 Ill. Adm. Code 212.321(c).

g. Pursuant to 35 Ill. Adm. Code 212.324(b), except as otherwise provided in 35 Ill. Adm. Code 212.324, no person shall cause or allow the emission into the atmosphere, of PM₁₀, from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period

Pursuant to 35 \$11. Adm. (Code 218/204 (d), except as provided in 35 Ill. Adm. Code 218.205, 218.207, 218.208, 218 212, 218.275 and 218.216, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for Coil Coating. Except as otherwise provided in 35 Ill. Adm. Code 218.204(a), (c), (g), (h), (j), (l), (n), (p), and (q), compliance with the emission limitations is required on and after March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with 35 Ill. Adm. Code 218 Subpart F must be demonstrated through the applicable coating analysis test methods and procedures specified in 35 Ill. Adm. Code 218.105(a) and the recordkeeping and reporting requirements specified in 35 Ill. Adm. Code 218.211(c) except where noted. The emission limitations are as follows:

l Coating	kg/l	lb/gal
· .	0.20	(1.7)

b. Pursuant to 35 Ill. Adm. Code 218.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 218.302, 218.303, or 218.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code 218 Subpart G shall only apply to photochemically reactive material.

5a. This permit is issued based on the steel coil pickling line at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart

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CCC. This is a result of the federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.

- b. This permit is issued based on coil coater associated with the existing steel coil pickling line at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSSS. This is a result of the federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.
- 6a. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hr (25 mph). Determination of wind speed for the purposes of this rule shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to this rule is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.
- b. Pursuant to 35 Ill. Adm. Code 212.324(d), the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, 35 Ill. Adm. Code 212.324(d) is not a defense finding of a violation of the mass emission limits contained in 35 Ill. Adm. Code 212.324(b) and (c).
- This permit is issued based on the solvent cleaning operations at this 7a. source not being subject to the requirements of 35 Ill. Adm. Code 218.187(b). Pursuant to 35 Ill. Adm. Code 218.187(a)(1), on and after January 1, 2012: Except as provided in 35 Ill. Adm. Code 218.187(a)(2), the requirements of 35 Ill. Adm. Code 218.187 shall apply to all cleaning operations that use organic materials at sources that emit a total of 226.8 kg per calendar month (500 lbs per calendar month) or more of VOM, in the absence of air pollution control equipment, from cleaning operations at the source other than cleaning operations identified in 35 Ill. Adm. Code 218.187(a)(2). For purposes of 35 ILA. Adm. Code 218.187, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including but not limited to spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning, at sources with emission units;
- b. Pursuant to 35 Ill. Adm. Code 218.209, no owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 is

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required to meet the limitations of 35 Ill. Adm. Code 218 Subpart G (35 Ill. Adm. Code 218.301 or 218.302), after the date by which the coating line is required to meet 35 Ill. Adm. Code 218.204.

Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

9a. Pursuant to 35 Ill. Adm. Code 212.306, all normal traffic pattern access areas surrounding storage piles specified in 35 Ill. Adm. Code 212.304 and all normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by 35 Ill. Adm. Code 212.309, 212.310 and 212.312.

- b. Pursuant to 35 Ill. Adm. Code 212.309(a), the emission units described in 35 Ill. Adm. Code 212.304 through 212.308 and 35 Ill. Adm. Code 212.316 shall be operated under the provisions of an operating program, consistent with the requirements set forth in 35 Ill. Adm. Code 212.310 and 212.312, and prepared by the owner or operator and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions.
- c. Pursuant to 35 Ill. Adm. Code 212.310, as a minimum the operating program shall include the following:
 - i. The name and address of the source;
 - ii. The name and address of the owner or operator responsible for execution of the operating program;
 - iii. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source;
 - iv. Location of unloading and transporting operations with pollution control equipment;
 - v. A detailed description of the best management practices utilized to achieve compliance with 35 Ill. Adm. Code 212 Subpart K, including an engineering specification of particulate collection

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equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized;

- vi. Estimated frequency of application of dust suppressants by location of materials; and
- vii. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program.
- d. Pursuant to 35 Ill. Adm. Code 212.312, the operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with 35 Ill. Adm. Code 212 Subpart K and shall be submitted to the Illinois EPA for its review.
- e. Pursuant to 35 Ill. Adm. Code 212.324(f), for any process emission unit subject to 35 Ill. Adm. Code 212.324(a), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in 35 Ill. Adm. Code 212.324 shall be met at all times. 35 Ill. Adm. Code 212.324 shall be met at all times. 35 Ill. Adm. Code 201.149. Proper maintenance shall include the following minimum requirements:
 - i. Visual inspections of air pollution control equipment;
 - ii. Maintenance of an adequate inventory of spare parts; and
 - iii. Expeditious repairs, unless the emission unit is shutdown.
- 10a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
 - b. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic maintenance on the scrubber and turbo-tunnel enclosure such that scrubber and turbo-tunnel enclosure are kept in proper working condition and not cause a violation the Environmental Protection Act or regulations promulgated therein.
 - c. The scrubber and turbo-tunnel enclosure shall be in operation at all times when the associated emission units are in operation and emitting air contaminants.
 - d. The scrubber shall be equipped with a monitoring device that continuously indicates and records the make-up water flow and pressure drop across the scrubber. The Permittee shall calibrate, maintain, and operate the scrubber monitoring device according to the manufacturer's specifications.

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lla.	This permit is issued based on negligible emissions of hydrogen chloride (HCl) from the steel coil pickling line and three hydrochloric acid storage tanks. For this purpose, HCl emission shall not exceed
	nominal emission rates of 0.1 lb/hour and 0.44 ton/year. These limits
	are based on the maximum production rate, the most recent stack test
	data and the following operational limits:
•	

- i. Steel Coil Throughput: 120 tons/hr, 89,000 tons/mo, 1,050,000 tons/yr;
- ii. Hydrochloric Acid Usage: 2,510 lbs/hr, 930 tons/mo, 11,000 tons/yr;
- iii. Maximum HCl concentration in pickling tanks: 16%;
- iv. Maximum pickling tanks temperature: 190°F;
- v. Scrubber make-up water flow no less than 1.88 gal/min; and
- vi. Pressure drop across the scrubber no more than 9.15" w.c.
- b. The VOM usage and VOM emission from the oil coater shall not exceed the following limits:

VOM	Usage	VOM Emissions		
Tons/Month	Tons/Year	,Tons/Month	<u>Tons/Year</u>	
1.27	12.70	1.27	12.70	

These limits are based on the maximum material usage, the maximum VOM and HAP content of the materials, and the maximum emissions determined by a material balance. The VOM and HAP emissions shall be determined from the following equation:

$\mathbf{E} = \sum (\mathbf{V}_{i} \times \mathbf{C}_{i})$

Where: E = VOM or HAP emissions (ton);

 $V_i =$ individual coating usage (ton); and

 $C_i = VOM \text{ or HAP content of the each individual coating (wt. fraction).}$

- c.
 - The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act from the source shall not exceed 0.79 tons/month and 7.9 tons/year of any single HAP and 1.31 tons/month and 13.14 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirements to obtain a CAAPP permit from the Illinois EPA, the NESHAP for for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants, 40 CFR 63 Subpart

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CCC, and the NESHAP for Surface Coating of Metal Coil, 40 CFR Part 63, Subpart SSS#.

- d. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- 12a. Pursuant to 40 CFR 60.8(a), at such other times as may be required by the Illinois EPA or USEPA under section 114 of the Clean Air Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Illinois EPA or USEPA a written report of the results of such performance test(s).
 - b. Pursuant to 40 CFR 60.8(b), performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart of 40 CFR Part 60 unless the Illinois EPA or USEPA:
 - i. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
 - ii. Approves the use of an equivalent method;
 - iii. Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance;
 - iv. Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Illinois EPA's or USEPA's satisfaction that the affected facility is in compliance with the standard; or
 - v. Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Illinois EPA's or USEPA's authority to require testing under section 114 of the Clean Air Act.
- c. Pursuant to 40 CFR 60.8(c), performance tests shall be conducted under such conditions as the Illinois EPA or USEPA shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Illinois EPA or USEPA such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

- d. Pursuant to 40 CFR 60.8(e), the owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:
 - i. Sampling ports adequate for test methods applicable to such facility. This includes:
 - A. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test 1 methods and procedures; and
 - B. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
 - ii. Safe sampling platform(s).
 - iii. Safe access to sampling platform(s).
 - iv. Utilities for sampling and testing equipment.
- 13a. Pursuant to 40 CFR 60.463(b), the owner or operator of an affected facility shall conduct an initial performance test as required under 40 CFR 60.8(a) and thereafter a performance test for each calendar month for each affected facility according to the procedures in 40 CFR 60.463.
 - Pursuant to 40 CFR 60.463(c)(1), the owner or operator shall use the b. following procedures for determining monthly volume-weighted average emissions of VOC's in kg/l of coating solids applied. An owner or operator shall use the following procedures for each affected facility that does not use a capture system and control device to comply with the emission limit specified under 40 CFR 60.462(a)(1). The owner or operator shall determine the composition of the coatings by formulation data supplied by the manufacturer of the coating or by an analysis of each coating, as received, using Method 24. The Illinois EPA or USEPA may require the owner or operator who uses formulation data supplied by the manufacturer of the coatings to determine the VOC content of coatings using Method 24 or an equivalent or alternative method. The owner or operator shall determine the volume of coating and the mass of VOC-solvent added to coatings from company records on a monthly basis. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coating used at each affected facility by using the average dry weight of coating and the surface area coated by each affected and existing facility or by other procedures acceptable to the Illinois EPA or USEPA.
 - i. Calculate the volume-weighted average of the total mass of VOC's consumed per unit volume of coating solids applied during each calendar month for each affected facility, except as provided

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under 40 CFR 60.463(c)(1)(iv). The weighted average of the total mass of VOC's used per unit volume of coating solids applied each calendar month is determined by the following procedures.

Calculate the mass of VOC's used (Mo + Md) during each calendar month for each affected facility by using Equation 1 in 40 CFR 60.463(c)(1)(i)(A).

$$M_{o} + M_{cl} = \sum_{i=1}^{n} L_{ci} D_{ci} W_{oi} + \sum_{j=1}^{m} L_{dj} D_{dj} \qquad \text{Equation 1}$$

 $(SL_{dj}D_{dj}$ will be 0 if no VOC solvent is added to the coatings, as received)

Where:

n is the number of different coatings used during the calendar month, and

m is the number of different VOC solvents added to coatings used during the calendar month.

в.

Calculate the total volume of coating solids used (L_s) in each calendar month for each affected facility by the following equation:

$$\mathbf{L}_{s} = \sum_{i=1}^{n} \mathbf{V}_{si} \mathbf{I}_{\cdot ci} \qquad \text{Equation 2}$$

Where:

n is the number of different coatings used during the calendar month.

Calculate the volume-weighted average mass of VOC's used per unit volume of coating solids applied (G) during the calendar month for each affected facility by the following equation:

$$G = \frac{M_b + M_d}{L_s}$$
 Equation 3

ii. Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during the calendar month for each affected facility by the following equation:

N=G Equation 4

iii. Where the volume-weighted average mass of VOC's discharged to the atmosphere per unit volume of coating solids applied (N) is equal

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to or less than 0.28 kg/l, the affected facility is in compliance.

- iv. If each individual coating used by an affected facility has a VOC content, as received, that is equal to or less than 0.28 kg/l of coating solids, the affected facility is in compliance provided no VOC's are added to the coatings during distribution or application.
- 14a. Pursuant to 40 CFR 60.466(a)(1), the reference methods in appendix A to 40 CFR Part 60, except as provided under 40 CFR 60.8(b), shall be used to determine compliance with 40 CFR 60.462 as follows: Method 24, or data provided by the formulator of the coating, shall be used for determining the VOC content of each coating as applied to the surface of the metal coil. In the event of a dispute, Method 24 shall be the reference method. When VOC content of waterborne coatings, determined by Method 24, is used to determine compliance of affected facilities, the results of the Method 24 analysis shall be adjusted as described in Section 12.6 of Method 24;
 - b. Pursuant to 40 CFR 60.466(b), for Method 24, the coating sample must be at least a 1-liter sample taken at a point where the sample will be representative of the coating as applied to the surface of the metal coil.
- 15a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or

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ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

- b. Testing required by Conditions 16 and 17 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
- 16. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.
- 17. Pursuant to 35 Ill. Adm. Code 218.211(a), the VOM content of each coating shall be determined by the applicable test methods and procedures specified in 35 Ill. Adm. Code 218.105 to establish the records required under 35 Ill. Adm. Code 218.211.
- 18. Pursuant to 40 CFR 60.464(a), where compliance with the numerical limit specified in 40 CFR 60.462(a)(1) or (2) is achieved through the use of low VOC-content coatings without the use of emission control devices or through the use of higher VOC-content coatings in conjunction with emission control devices, the owner or operator shall compute and record the average VOC content of coatings applied during each calendar month for each affected facility, according to the equations provided in 40 CFR 60.463.
- 19a. Pursuant to 40 CFR 60.7(b), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
 - b. Pursuant to 40 CFR 60.7(f), any owner or operator subject to the provisions of 40 CFR Part 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
- 20. Pursuant to 40 CFR 60.465(e), each owner or operator subject to the provisions of 40 CFR 60 Subpart TT shall maintain at the source, for a period of at least 2 years, records of all data and calculations used

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to determine monthly VOC emissions from each affected facility and to determine the monthly emission limit, where applicable. Where compliance is achieved through the use of thermal incineration, each owner or operator shall maintain, at the source, daily records of the incinerator combustion temperature. If catalytic incineration is used, the owner or operator shall maintain at the source daily records of the gas temperature, both upstream and downstream of the incinerator catalyst bed.

21.

Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

- 22a. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.
 - b. Pursuant to 35 Ill. Adm. Code 212.316(g)(1), the owner or operator of any fugitive particulate matter emission unit subject to 35 Ill. Adm. Code 212.316 shall maintain written records of the application of control measures as may be needed for compliance with the opacity limitations of 35 Ill. Adm. Code. 212.316.

- c. Pursuant to 35 Ill. Adm. Code 212.316(g)(2), the records required under 35 Ill. Adm. Code 212.316 shall include at least the following:
 - i. The name and address of the source;
 - ii. The name and address of the owner and/or operator of the source;
 - iii. A map or diagram showing the location of all emission units controlled including the location, identification, length, and width of roadways;
 - iv. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;
 - v. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day; and
 - vi, A log recording incidents when control measures were not used and a statement of explanation.
- I. Pursuant to 35 Ill. Adm. Code 212.316(g)(3), copies of all records required by 35 Ill. Adm. Code 212.316 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records.
- Pursuant to 35 Ill. Adm. Code 212.316(g)(4), the records required under 35 Ill. Adm. Code 212.316 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours..
- f. Pursuant to 35 Ill. Adm. Code 212.324(g)(1), written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with 35 Ill. Adm. Code 212.324(f).
- g. Pursuant to 35 Ill. Adm. Code 212.324(g)(2), the owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emission limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what and corrective actions taken and what repairs were made.

- h. Pursuant to 35 Ill. Adm. Code 212.324(g)(3), a written record of the inventory of all spare parts not readily available from local suppliers shall be kept an updated.
- Pursuant to 35 Ill. Adm. Code 212.324(g)(5), the records required under 35 Ill. Adm. Code 212.324 shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours.
- 23a. Pursuant to 35 Ill. Adm. Code 218.187(e) (1) (B), the owner or operator of a source exempt from the limitations of 35 Ill. Adm. Code 218.187 because of the criteria in 35 Ill. Adm. Code 218.187(a) (1) shall on and after January 1, 2012, collect and record the following information each month for each cleaning operation, other than cleaning operations identified in 35 Ill. Adm. Code 218.187 (a) (2):
 - i. The name and identification of each VOM-containing cleaning solution as applied in each cleaning operation;
 - ii. The VOM content of each cleaning solution as applied in each cleaning operation;
 - iii. The weight of VOM per volume and the volume of each as-used cleaning solution; and
 - iv. The total monthly VOM emissions from cleaning operations at the source;
 - b. Pursuant to 35 Ill. Adm. Code 218.187(e) (10), all records required by this 35 Ill. Adm. Code 218.187(e) shall be retained by the source for at least three years and shall be made available to the Illinois EPA upon request.
 - C. Pursuant to 35 Ill. Adm. Code 218.211(c) (2), any owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 other than 35 Ill. Adm. Code 218.204(a) (1) (B), (a) (1) (C), (a) (2) (B), (a) (2) (C), or (a) (2) (D) and complying by means of 35 Ill. Adm. Code 218.204 shall comply with the following: On and after a date consistent with 35 Ill. Adm. Code 218.106, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day, unless otherwise specified, for each coating line and maintain the information at the source for a period of three years:
 - i. The name and identification number of each coating as applied on each coating line;
 - The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.

- 24a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
 - i. Records addressing use of good operating practices for the scrubber and turbo-tunnel enclosure:
 - A. Records for periodic inspection of the scrubber and turbotunnel enclosure with date, individual performing the inspection, and nature of inspection; and
 - B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.
 - Daily HCl concentration in pickling tanks (wt. *);
 - iii. Daily pickling tank temperature (°F);
 - iv. Daily scrubber make-up water flow (gal/min);
 - v. Daily pressure drop across the scrubber (in of w.c.);
 - vi. Steel process rate (tons/mo, tons/yr);
 - vii. Hydrochloric acid usage (gal/mo, gal/yr);
 - viii. Coating and cleanup solvent usage (tons/month and tons/year);
 - ix. The VOM and HAP content of each coating and cleanup solvent (% by weight);
 - x. Monthly and annual emissions of PM, VOM and HAP from the source with supporting calculations (tons/month, tons/year).
- b. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.
- 25. Pursuant to 40 CFR 60.465(c), following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Illinois EPA or USEPA every calendar quarter of each instance in which the volume-weighted average of the local mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under 40 CFR 60.462. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Illinois EPA or USEPA semiannually.

- 26a. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.
 - b. Pursuant to 35 Ill. Adm. Code 212.316(g) (1), the owner or operator of any fugitive particulate matter emission unit subject to 35 Ill. Adm. Code 212.316 shall submit to the Illinois EPA an annual report containing a summary of the application of control measures as may be needed for compliance with the opacity limitations of 35 Ill. Adm. Code. 212.316.
 - Pursuant to 35 Ill. Adm. Code 212.316(g)(5), a quarterly report shall be submitted to the Illinois EPA stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Section. This report shall be submitted to the Illinois EPA 30 calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31.
 - d. Pursuant to 35 Ill. Adm. Code 212.324(g)(4), copies of all records required by 35 Ill. Adm. Code 212.324 shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA.
- 27a. Pursuant to 35 Ill. Adm. Code 218.187(e)(1)(C), the owner or operator of a source exempt from the limitations of 35 Ill. Adm. Code 218.187 because of the criteria in 35 Ill. Adm. Code 218.187(a)(1) shall comply with the following: Notify the Illinois EPA of any record that shows that the combined emissions of VOM from cleaning operations at the source, other than cleaning operations identified in 35 Ill. Adm. Code 218.187(a)(2), ever equal or exceed 226.8 kg/month (500 lbs/month), in the absence of air pollution control equipment, within 30 days after the event occurs.
 - b. Pursuant to 35 Ill. Adm. Code 218.211(c)(3), any owner or operator of a coating line subject to the limitations of 35 Ill. Adm. Code 218.204 other than 35 Ill. Adm. Code 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) and complying by means of 35 Ill. Adm. Code 218.204 shall comply with the following:
 - i. By a date consistent with 35 Ill. Adm. Code 218.106, or upon initial start-up of a new coating line, or upon changing the method of compliance from an existing subject coating line from

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35 Ill. Adm. Code 218.205, 35 Ill. Adm. Code 218.207, 35 Ill. Adm. Code 218.215, or 35 Ill. Adm. Code 218.216 to 35 Ill. Adm. Code 218.204; the owner or operator of a subject coating line shall certify to the Illinois BPA that the coating line will be in compliance with 35 Ill. Adm. Code 218.204 on and after a date consistent with 35 Ill. Adm. Code 218.106, or on and after the initial start-up date. The certification shall include:

- A. The name and identification number of each coating as applied on each coating line;
- B. The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line;
- ii. On and after a date consistent with 35 Ill. Adm. Code 218.106, the owner or operator of a subject coating line shall notify the Illinois EPA in the following instances:
 - A. Any record showing violation of 35 Ill. Adm. Code 218.204 shall be reported by sending a copy of such record to the Illinois EPA within 30 days following the occurance of the violation.
 - B. At least 30 calendar days before changing the method of compliance from 35 Ill. Adm. Code 218.204 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 218.211(d) (1) or (e) (1), as applicable. Upon changing the method of compliance from 35 Ill. Adm. Code 218.204 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 218.204 to 35 Ill. Adm. Code 218.205 or 35 Ill. Adm. Code 218.207, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 218.211(d) or (e), as applicable.
- 28a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance or deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedances or deviation and efforts to reduce emissions and future occurrences.
 - b. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Illinois EPA Division of Air Pollution Control Compliance and Enforcement Section (#40) P.O. Box 19276 Springfield, IL 62794-9276

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and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Date Signed:

Illinois Environmental Protection Illinois EPA Division of Air Pollution Control - Regional Office 9511 West Harrison Des Plaines, Illinois 60016

If you have any questions on this permit, please contact Valeriy Brodsky at 217/785-1705.

Edwin C. Bakowski, P.E. Manager, Permit Section Division of Air Pollution Control

ECB:VJB:

cc: Illinois EPA, FOS Region 1 Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the steel coil pickling plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emission is below the level (e.g., 10 tons/year for any single HAP and 25 tons/year for any combination of such HAP), at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is used and control measures are more effective than required in this permit.

	EM	IISSION	S (Tons/Y	ear)
			Single	Combined
Emission Unit	PM	VOM	HAP	HAPS
Steel Coil Pickling Line and Three	:			
Hydrochloric Acid Storage Tanks	0.44	*	0.44	0.44
Coil Coating	<u> </u>	12.70	(12.70
Total	.s 0.44	12.70	7.90	13.14

VJB:

EXHIBIT C

ILLINOIS POLLUTION CONTROL BOARD November 15, 2012

NACME STEEL PROCESSING, LLC,)
Petitioner,)
v.)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,	
Respondent.)

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PCB 13-7 (CAAPP Permit Appeal - Air)

ORDER OF THE BOARD (by D. Glosser):

On September 10, 2012, NACME Steel Processing, LLC (NACME) filed an amended petition for hearing (Pet.) asking the Board to review a June 27, 2012 determination of the Illinois Environmental Protection Agency (Agency). *See* 415 ILCS 5/40(a)(1) (2010); 35 Ill. Adm. Code 101.300(b), 105.206. The determination concerns NACME's steel pickling facility located at 429 West 127th Street, Chicago, Cook County. On September 25, 2012, the Agency filed a motion to dismiss the amended petition arguing that the Board lacked jurisdiction to hear the appeal. The Agency asserts that the petition is premature as the Agency's decision is not final. For the reasons discussed below, the Board finds that the filing of an appeal is premature and dismisses the appeal. NACME may refile this appeal if the issue remains when Agency issues a final permit.

PROCEDURAL HISTORY

On August 1, 2012, NACME filed a petition for hearing (Pet.) asking the Board to review a June 27, 2012 determination of the Agency. *See* 415 ILCS 5/40(a)(1) (2010); 35 III. Adm. Code 101.300(b), 105.206. On August 9, 2012, the Board accepted as timely NACME's petition for hearing, but directed NACME to file an amended petition demonstrating the presence of final agency action. Section 105.210(a) of the Board's procedural rules requires that a petition include "[t]he Agency's final decision or issued permit." 35 Ill. Adm. Code 105.201(a). In that order, the Board noted:

In the typical permit appeal filed with the Board, the Agency determination is written and delivered to the permit applicant by U.S. Mail, or is contained in a final permit. <u>NACME Steel Processing, LLC v. IEPA</u>, PCB 13-7, slip op. at 2 (Aug. 9, 2012).

Acknowledging that Agency practice may differ when processing an application for a Federally Enforceable State Operating Permit (FESOP), the Board directed NACME either to file the "final decision or issued permit" or verify that the draft permit and subsequent e-mail

correspondence (Pet., Exhs. A, G) are the only documents it possesses that convey the Agency's final determination appealed by the petition. *Id.*

On September 4, 2012, the Agency filed a motion to dismiss petition for hearing. On September 10, 2012, NACME filed an amended petition for hearing (Am. Pet.). On September 25, 2012, the Agency filed a motion to dismiss the amended petition for hearing (Mot.), and on October 9, 2012, NACME filed a response to the Agency's motion to dismiss (Resp.).

On October 12, 2012, the Agency filed a motion for leave to file a reply by October 26, 2012. On October 16, 2012, NACME filed an objection to the motion for leave to file a reply. On October 26, 2012, the Agency filed a reply to NACME's response to the Agency's motion to dismiss (Reply).

PRELIMINARY MATTERS

The Board first notes that the Agency filed a motion to dismiss the original petition and followed with a motion to dismiss the amended petition. The Board finds the motion to dismiss the original petition mooted by the filing of the motion to dismiss the amended petition.

Next, the Board will address the request to file a reply. NACME objects asserting that Agency did not assert that failure to allow a reply would result in material prejudice, nor did the Agency specifically identify "factual and legal mischaracterizations" in the response. The Board finds that the Agency sufficiently argued for leave to file a reply and the motion is granted.

PARTIES' ARGUMENTS

Both parties have addressed the issue of whether the Agency's determination on the FESOP is final and therefore an action appealable to the Board. First, the Board will summarize NACME's arguments contained in its amended petition for hearing. Second, the Board will summarize the Agency's arguments found in its motion to dismiss the amended petition. Third, the Board will summarize NACME's response to the Agency's motion to dismiss. Finally, the Board will summarize the Agency's reply to NACME's response to the Agency's motion to dismiss.

NACME's Amended Petition

NACME's amended petition summarizes NACME's objection to a special "metal coating" condition that the Agency included in a draft FESOP for NACME's facility and defended in multiple correspondences between the parties. In the petition, NACME maintains that the FESOP at issue constitutes final Agency action in its current form. NACME argues that the Agency's June 27, 2012 email "made clear that after two rounds of negotiation the Agency's decision to impose the Metal Coating standard was final." Am. Pet. at 4. NACME includes the relevant language of the Agency's letter, which states "[t]he Illinois EPA continues to consider NACME protective oil application operations as being subject to NSPS Subpart TT requirements." *Id.* NACME argues that at this point, they are left with "no further recourse to gain the Agency's agreement but to file this Petition." *Id.*, citing ESG Watts, Inc. v. IPCB, 326

Ill. App. 3d 432; 760 N.E.2d 1004 (4th Dist. 2001). NACME confirms that the cited documents are the only ones they possess that convey the final determination by the Agency. Am. Pet. at 4.

NACME then addresses the Agency's motion to dismiss the original petition. Am. Pet. at 4. NACME argues that in its motion, the Agency "merely argues that it did not use the word 'final' in its comment correspondence with NACME" and states that the Agency's attached affidavit "merely states a legal conclusion that the Agency's last correspondence on the issue of applicability of Subpart TT requirements was not 'final." *Id.* Specifically, NACME states:

Although the Agency's cited correspondence shows that it is adamant about imposing the Metal Coating standard, in its Motion to Dismiss it hints but never states that its position might change. It argues that it has not said that it will not consider "other reasons" for removing the contested condition but does not say that it is considering any such other reasons or that any have been raised. In contrast, the dispositive reasons for non-application of the Metal Coating standard that have been raised by NACME have been unambiguously rejected by the Agency. *Id.* at 4-5.

Finally, NACME contends that the Agency's determination in this case is analogous to the final determination in <u>ESG Watts, Inc.</u>, where additional information from petitioner was rejected and there was "no allusion to further negotiation." *Id.* at 5, citing 326 Ill. App. 3d at 437. NACME states that the "Agency's argument that its final decision on this matter must be included in a signed permit exalts form over substance and is in any event inconsistent with Illinois law as noted in ESG Watts, Inc." *Id.*

Agency's Motion

The Agency first sets out the procedural background of the case, then argues that in light of these facts, it is apparent that no final determination has been made. The Agency notes that in October 2005, NACME applied to the Agency for a FESOP for its steel pickling facility, and at that time the Agency "requested additional information in the form of a construction permit application." Mot. at 1-2. On February 22, 2012 NACME submitted a construction permit, and on or about April 26, 2012, the Agency issued an "air emission source Construction Permit" and a "preliminary draft FESOP requesting NACME's response by May 17, 2012." Id. at 2. On or about May 15, 2012, NACME responded to the Agency in a letter and set out its objections to certain contested provisions. Id. On May 23, 2012, the Agency responded by email to NACME's objections, and on June 14, 2012, NACME submitted additional comments in a letter regarding its objection. Id. at 3. On June 15, 2012, the Agency responded to NACME by email, rejecting NACME's reasoning for removal of the contested provision while "providing additional explanation." Id. On June 26, 2012, NACME responded to the Agency's June 15 email by "repeat[ing] its assertion that the Contested Provision was not applicable to its process with additional explanation for its reasoning." Id. Finally, on June 27, 2012, the Agency responded to NACME once more by email, stating that "it continued to consider that the Contested Provision was applicable to NACME's coating operation." Id. The Agency asserts that "[t]here was no indication in the [June 27, 2012] email correspondence that the Agency's

opinion was a final determination or that it would not consider other reasons for removing the Contested Provision." *Id.*

The Agency cites Section 105.108(d) of the Board's Procedural Rules (35 Ill. Adm. Code 105.108(d)), which states that a petition for review of an Agency decision will be dismissed if the Board determines that "[t]he petitioner does not have standing under applicable law to petition the Board for review of the State agency's final decision." *Id.* If the petitioner lacks standing, the Agency argues, then the Board "correspondingly lacks jurisdiction to hear the Petitioner's appeal." *Id.* at 4, citing Williamson Cty v. Kibler Dev. Corp., PCB 08-93 slip op at 13 (July 10, 2008). The Agency then cites Section 40(a) of the Environmental Protection Act (Act) (415 ILCS 5/40 (2010)), which authorizes the Board to review Agency denials of permits pursuant to Section 39 of the Act (415 ILCS 5/39 (2010)), and reads as follows:

If the Agency refuses to grant or grants with conditions a permit under Section 39 of this Act, the applicant may, within 35 days after the date on which the Agency served its decision on the applicant, petition for a hearing before the Board to contest the decision of the Agency. 415 ILCS 5/40(a)(1) (2010).

In light of these provisions, the Agency argues that NACME's amended petition has been filed prematurely and should therefore be dismissed by the Board for lack of ripeness and standing and lack of jurisdiction by the Board. Mot. at 4. The Agency states that it has not issued a final decision reviewable by the Board under Section 40 of the Act (415 ILCS 5/40 (2010)), and that NACME is merely contesting "the Agency's statement of its legal opinion in its June 27, 2012 email correspondence discussing the Contested Provision." Id. The Agency references the affidavit of Ed Bakowski, Agency Manager for the Bureau of Air (Aff.), where Mr. Bakowski states that prior to issuance of a FESOP, the Agency provides notice of the permit to the public and prepares and signs a final permit under the Permit Section Manager's authority on behalf of the Director of the Agency. Aff. at 2. Mr. Bakowski continues to state that the Agency, to date, "has not completed its application review nor provided notice of [NACME's FESOP permit application] to the public." Id. He states that "a permit has not been signed and a final permit decision on the request for FESOP has not been made." Id. Mr. Bakowski concludes by stating that the email correspondence between the parties on June 27, 2012 was not a formal written final determination, but rather "a response to a request from [petitioner] for additional comments on discussions regarding the applicability of a Condition in the draft FESOP. . .". Id.

The Agency argues that since it has not provided notice of the FESOP to the public as required under Section 40 of the Act (415 ILCS 5/40 (2010)), has not signed a FESOP permit and has not made a final permit decision regarding NACME's application, the July 27, 2012 email should not be considered a "formal written final determination from the Agency..." Mot. at 5. The Agency contends that since no final determination has been made, the Board does not have authority under Section 40 of the Act (415 ILCS 5/40 (2010)) to review the Agency's opinion as it now stands. *Id*.

NACME's Response

First, NACME argues that it has standing to bring this petition, contrary to the Agency's assertions. Resp. at 3. While the Agency cited <u>Williamson County v. Kibler Development</u> <u>Corp.</u>, PCB 08-93 (July 10, 2008) in support of its proposition that the Board lacks jurisdiction to hear the petitioner's appeal if the petitioner lacks standing (*see* Mot. at 3-4), NACME argues that this case instead supports its argument that NACME has standing. While the Board in <u>Williamson</u> ruled that the State's Attorney had no standing as a third party to object to the modification of a landfill permit, NACME demonstrates that the Board in the <u>Williamson</u> case also held that under the Act, "appeal rights lay solely with the permit applicant and not with a third party. . .." Resp. at 3. Therefore, NACME argues that since the appeal provision in that case is "nearly identical" to the one at issue here, "NACME's standing as a permit applicant to bring its Petition is unquestionable." *Id.*

Next, NACME addresses the issue of ripeness and states that the Agency both failed to present a single case showing the petition at hand is not ripe, and failed to rebut NACME's reference to <u>ESG Watts, Inc.</u>, which ruled that a statement by an Agency with no allusion to further negotiation constitutes final agency action. *Id.* at 3, citing 326 Ill. App. 3d at 437. NACME also contends that the Agency ignored other precedential cases which demonstrate that the petition at issue here is ripe for review. Specifically, NACME cites <u>Village of Fox River</u> <u>Grove v. IPCB</u>, (299 Ill.App.3d 869; 702 N.E. 2d 656 (2nd Dist. 1998)) where the Board heard an applicant's petition regarding "a draft permit issued by the Agency containing more stringent effluent permit conditions than prior permits." Resp. at 3-4.

Finally, NACME points out that while the Agency argues it has not made an appealable final decision regarding the permit application, "[the Agency] has directed the attorney general to file suit seeking penalties for NACME's failure to have a FESOP permit. ..." *Id.* NACME concludes by suggesting "[s]urely the legislature did not intend to allow the Agency to sit on a permit application for years and then file an enforcement action for not having the permit sought." *Id.*

Agency's Reply

In its reply, the Agency first argues that the "State's enforcement action against [NACME] in a separate matter is irrelevant to its Petition for Review." Reply at 4. In support of this argument, the Agency states as follows:

Petitioner attempts to confuse the factual issues of its premature Petition for Review of a FESOP application completed in February 2012. . . with an enforcement action against Petitioner for violations [which occurred] during a time period prior to the submittal by Petitioner of the FESOP and construction permit applications in February 2012. . . These are clearly two separate time periods in the process of Petitioner's application for a FESOP. *Id.*

Given these separate time periods, the Agency argues that the State's enforcement matter is "not relevant to this Petition for Review of the Contested Provisions of a draft permit." *Id.*

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Next, the Agency focuses on the case law and statutory authority it cited in its motion. The Agency first addresses <u>Williamson</u>, which it states "represents the general premise that a Petitioner who lacks standing to Petition the Board for a Review of a permit, for whatever reason, results in the Board's lack of jurisdiction to hear the Petition." Reply at 4, citing PCB 08-93 (July 10, 2008). The Agency argues that a proposed draft permit that has neither been denied nor issued is not final agency action which, under Section 40 of the Act (415 ILCS 5/40 (2010)), would allow the Board to set a hearing upon a permit applicant's request. Reply at 4-5. Under this Section, the Agency argues that "a permit applicant does not have standing to bring a Petition for Review on a permit application. . . that the Agency has neither refused to grant nor has granted with or without conditions." *Id.* at 5. Therefore, the Agency contends that "where a Petitioner does not have standing due to lack of ripeness for review of a FESOP. . . the Board does not have jurisdiction to hear the matter." *Id.*

The Agency next addresses its prior citation to Landfill, Inc. v. IPCB (74 III. 2d 541 (1978)), "wherein the Supreme Court ruled that the Board lacks the statutory authority to review an Agency decision in regards to a permit absent a specific statutory grant of the authority to review." Reply at 5, citing 74 III. 2d 541 (1978). The Agency argues that this case, in conjunction with the authority found under Section 40 of the Act, authorizes the Board to hear a petition where the Agency has either refused to grant or grants with or without conditions a permit under Section 39 of the Act. *Id.* The Agency insists that "[n]owhere in the Amended Petition for Review is there a claim that the Agency has either refused to grant the Petitioner a FESOP or has granted the Petitioner a FESOP with conditions." *Id.* Additionally, the Agency in an affidavit specifically states that it has neither denied nor issued a FESOP to NACME. The Agency notes that the Board has addressed the nature of final agency action, and states:

At the time of filing of the Amended Petition for Review, in no instance has the Agency denied the permit outright, denied a permit based on a determination of insufficiency of information in the application or failure of the applicant to supplement the application as requested, or issued a permit with conditions. *Id.* at 6, citing In the Matter of: Smaller Source Permit Rules: Amendments to 35 Ill. Adm. Code Parts 201 and 211 R19-11, slip op at 4 (Dec. 2, 1993).

Therefore, the Agency argues that the Board has no statutory authority to hear the amended petition for review. Reply at 6.

Finally, the Agency contends that <u>ESG Watts</u>, Inc. and <u>Village of Fox River Grove</u> are distinguishable from this matter. Reply at 6. The Agency argues that <u>ESG Watts</u>, Inc. refers to the Board's ability to review an Agency's final decision under Section 21.1 of the Act, not Section 39 of the Act as NACME alleges. *Id*. The Agency states that under Section 39, a final agency action occurs in one of three ways: 1) "the denial of the FESOP permit outright," 2) "the denial of a permit based on a determination of insufficiency of information. . ." or 3) "the issuance of a permit with conditions." *Id*. at 7. The Agency reasons that since NACME has not alleged any of these three scenarios, no final action has been rendered by the Agency. *Id*. Lastly, the Agency points out that in <u>Village of Fox River Grove</u>, the Agency had in fact issued a renewal National Pollution Discharge and Elimination System permit. *Id*., citing <u>Village of Fox</u>

<u>River Grove v. Agency</u>, PCB 97-156 (Dec. 18, 1997). The Agency distinguishes this "issued" permit, which it contends was "clearly a final action by the Agency" from the FESOP in this case, which has not yet been denied nor granted by the Agency. *Id*.

DISCUSSION

NACME is asking the Board to review a decision by the Agency included in an email correspondence and made in the context of the permitting process for a FESOP permit. The Agency maintains that the decision on the permit is not final and therefore the Board cannot hear the appeal. Both parties rely on case law and the statute to support their arguments. After reviewing the cited authorities, the Board agrees with the Agency that the filing of an appeal by NACME is premature and the Board dismisses the petition.

The Board is unpersuaded by NACME's arguments. While the Board has the general authority to review Agency decisions under Section 5 of the Act (415 ILCS 5/5 (2010)), NACME is seeking review under Section 40 of the Act (415 ILCS 5/40 (2010)) of a decision made under Section 39 of the Act (415 ILCS 5/39.5 (2010))¹. See Mot. Aff. at ¶9. Section 39 of the Act (415 ILCS 5/39.5 (2010)) sets forth specific steps to be taken by the Agency before a permit can issue. Section 40(a)(1) of the Act provides in part:

If the Agency refuses to grant or grants with conditions a permit under Section 39 of this Act, the applicant may, within 35 days after the date on which the Agency served its decision on the applicant, petition for a hearing before the Board to contest the decision of the Agency. 415 ILCS 5/40(a)(1) (2010).

The Board is an administrative agency and "'an administrative agency is a creature of statute, any power or authority claimed by it must find its source within the provisions of the statute by which it is created." <u>Granite City Div. of Nat'l Steel Co.</u>, 155 Ill. 2d 149, 171 (1993), quoting <u>Bio-Medical Laboratories</u>, Inc. v. Trainor, 68 Ill. 2d 540, 551 (1977). In this case, there is no evidence that the Agency has refused to grant or is granting a permit with conditions. What NACME is appealing is the possible imposition of a condition. Until such time as the Agency "refuses to grant or grants with conditions a permit", the Board cannot hear an appeal under Section 40(a)(1) of the Act (415 ILCS 5/40(a)(1) (2010)). Therefore, the Board finds that the filing of this appeal is premature.

Furthermore, the Board is not persuaded by NACME's reliance on Fox River Grove and ESG Watts, Inc.. Neither of those cases supports NACME's appeal. Fox River Grove was a permit appeal and the Agency had issued its final decision. See Fox River Grove, PCB 97-156 (Dec. 18, 1997). The Agency included a condition with the final permit that the petitioner challenged. Id. Thus, without question there was a final decision, which could properly be appealed under Section 40(a)(1) of the Act (415 ILCS 5/40(a)(1) (2010)).

¹ The original petition indicates that the appeal is seeking review under Section 40.2 of the Act (415 ILCS 5/40.2 (2010)) of an Agency decision pursuant to Section 39.5 of the Act (415 ILCS 5/39.5 (2010)). The amended petition also references the appeal language of Section 40.2 of the Act (415 ILCS 5/40.2 (2010)). Am. Pet. at 3.

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ESG Watts, Inc. involved an appeal of an Agency decision made under Section 21.1(e) of the Act (415 ILCS 5/21.1(e) (2010)). ESG Watts, Inc., 760 N.E.2d at 1006. The petitioner was specifically asking the Board to direct the Agency to approve financial assurance. *Id.* The court found that the Agency's letter was a denial under Section 21.1 of the Act and an appeal was appropriate. *Id* at 1008. The Board had considered the Agency's action to be preenforcement for the lack of appropriate financial assurance. ESG Watts, Inc. is factually distinguishable. The Agency is not attempting to enforce the condition that is at issue and the condition has not been placed on a final permit. Therefore, NACME's reliance on ESG Watts, Inc. is misplaced.

The Board finds that the Agency has not made a final decision on the issuance of a permit. As there is no final decision by the Agency, the filing of an appeal is premature; however, once the Agency issues a permit, if the condition at issue is included, NACME may appeal that decision. The Board dismisses the petition and closes the docket.

IT IS SO ORDERED.

Board Member J. O'Leary abstains.

Section 41(a) of the Environmental Protection Act provides that final Board orders may be appealed directly to the Illinois Appellate Court within 35 days after the Board serves the order. 415 ILCS 5/41(a) (2010); see also 35 Ill. Adm. Code 101.300(d)(2), 101.906, 102.706. Illinois Supreme Court Rule 335 establishes filing requirements that apply when the Illinois Appellate Court, by statute, directly reviews administrative orders. 172 Ill. 2d R. 335. The Board's procedural rules provide that motions for the Board to reconsider or modify its final orders may be filed with the Board within 35 days after the order is received. 35 Ill. Adm. Code 101.520; see also 35 Ill. Adm. Code 101.902, 102.700, 102.702.

I, John T. Therriault, Assistant Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above order on November 15, 2012, by a vote of 4-0.

her T.

John T. Therriault, Assistant Clerk Illinois Pollution Control Board

EXHIBIT D



June 14, 2012

Mr. Edwin Bakowski Manager, Permit Section Illinois Environmental Protection Agency Division of Air Pollution Control 1021 North Grand Avenue East Springfield, Illinois 62702

Via E-Mail and Regular Mail

RE: April 2012 Draft FESOP Comments NACME Steel Processing, LLC I.D. No. 031600FWL Application No.05100052

Mr. Bakowski:

The following additional comments are being provided regarding the preliminary Draft Federally Enforceable State Operating Permit (FESOP) issued to the NACME Steel Processing, LLC (NACME) facility located at 429 West 127th Street in Chicago, Illinois (the facility) by IEPA letter dated April 26, 2012.

On May 23, 2012, I received email correspondence from Valeriy Brodsky, Permit Engineer for the Illinois Environmental Protection Agency (IEPA) responding to my May 15, 2012 draft FESOP comments letter. In the May 23, 2012 correspondence, Mr. Brodsky indicated that the IEPA has no issue with our request to delete conditions related to NESHAP Subpart SSSS applicability in the draft FESOP. Mr. Brodsky further indicated that the IEPA considers rust preventive oil application as being subject to NSPS Subpart TT and NACME operations fit within this definition. Additionally, no response was provided concerning our comments for draft FESOP Condition Nos. 4b and 11c.

While we agree with Mr. Brodsky regarding the non-applicability of the 40 CFR 63, Subpart SSSS, we would like to further respond to Mr. Brodsky's assertion that the application of the rust preventative oil at the facility is subject to the 40 CFR 60, Subpart TT and re-iterate our comments regarding the draft FESOP Conditions Nos. 4b and 11c.

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Illinois EPA FESOP Response 2 June 14, 2012 Page 2

Concerning our initial response regarding the applicability of the NSPS outlined in 40 CFR 60, Subpart TT, we continue to assert that the protective oil application process used at NACME's facility does not fall within the definition of coating operations as used in the Standards. NACME is, thus, not subject to the Standards.

Permit Condition No. 2a

Condition 2a currently states that the Coil Coater at the facility is subject to NSPS for Metal Coil Surface Coating, 40 CFR 60, Subpart TT.

<u>NACME Comment</u>: As previously stated, the Metal Coil Surface Coating NSPS does not apply to operations at the NACME facility because the oil application process does not meet the specific definition of prime or finish coat operations in the Standard.

As stated in 40 CFR 60.460(a), the Metal Coil Surface Coating NSPS applies only to the following coating operations:

- Each prime coat operation,
- Each finish coat operation, and
- Each prime and finish coat operation combined when the finish coat is applied wet on wet over the prime coat and both coatings are cured simultaneously.

As listed in 40 CFR 60.461, the following specific definitions apply to coil coating operations subject to the NSPS

- Prime coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the initial coating(s) on the surface of the metal coil
- Finish coat operation means the coating application station, curing oven, and quench station used to apply and dry or cure the final coating(s) on the surface of the metal coil. Where only a single coating is applied to the metal coil, that coating is considered a finish coat

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As indicated, NACME applies a protective rust preventative oil to metal coils which involves the use of an oil application station at the end of the steel pickling line. The protective oil is not dried or cured and does not contain any solids. Therefore, the protective oil is not subject to the VOM content limits for this Subpart. The protective oil remains on the coil after application and no quenching of the oiled metal coils is required (e.g., there is no quench station on this process line).

Furthermore, review of other current permits issued by the Indiana Department of Environmental Management (IDEM) for other protective or lubricating oil application processes and guidance documents issued to states from the United States Environmental Protection Agency (USEPA) regarding what constitutes a metal coil coating operations provide further evidence that the application of a rust preventative oil is not subject to this NSPS.

Attachment A contains the following Technical Support Documents (TDSs) for air emission source permits issued by IDEM to facilities, which are available at the USEPA's Region 5 Division of Air and Radiation Indiana Permit Database, that perform rust preventative protective oil application processes onto metal coils:

- Ispat Inland, Inc. East Chicago, Indiana (Ispat) TSD for a Part 70 Source Construction Permit (Permit No. CP-089-10472-00316) – Ispat applies rust preventative oil to metal colls. The Federal Rule Applicability Section of the TSD (page 4 of 6) states that "<u>the</u> <u>application of rust preventative oils to the steel coils is not subject to the New Source</u> <u>Performance Standard 326 IAC 12 (40 CFR 60, Subpart TT) because this rule only</u> <u>applies to coating operations which use a curing oven and quench station as part of the</u> <u>process</u>".
- Syndicate Sales, Inc., Kokomo, Indiana (Syndicate) TSD for a FESOP Source (Permit No. F067-7699-00026) – Syndicate applies a petroleum lubricant to metal coils. The Federal Rule Applicability Section of the TSD (page 5 of 12) states that <u>"where only a</u> <u>single coating is applied to the metal coil, that coating is considered a finish coat. The</u> <u>definition of Finish Coat Operation is the coating application station, curing oven, and</u> <u>auench station used to apply and dry or cure the final coating on the surface of the metal</u> <u>coil. The metal stamping process only involves coating metal coil with petroleum</u>

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> <u>Iubricating oil to facilitate the shaping and cutting of the coil into metal stems in the</u> <u>stamping process.</u> There are no curing ovens associated with the process. The metal stamping line does not fall under the definition of a finish coating operation, therefore, the requirements of 40 CFT 60.460, Subpart TT do not apply."

- Kasle Metal Processing, Jeffersonville, Indiana (Kasle) TSD for a Construction Permit (Permit No. 019-22372-00119) – Kasle applies a rust preventative surface coating to steel blanks. The Federal Rule Applicability Section of the TSD (page 4 of 5) states that <u>"this source is not subject to the New Source Performance Standard, 326 IAC 12, 40</u> <u>CFR 60.460, Subpart TT – Standards and Performance for Metal Coil Surface Coating</u> <u>Operations, which applies to prime coat, finish coat, and prime and finish coat combined</u> <u>operations because it is not a prime or finish coat operations</u>".
- The USEPA Guidance Document (Document No. EPA-453/P-00-001) National Emissions Standards for Hazard Air Pollutants: Metal Coil Surface Coating Industry Background Information for Proposed Standards, while it does not specifically address the NSPS requirements, outlines the "Metal Coil Coating Industry Profile and Process Description" (Section 3). Within this section of the USEPA Guidance Document, the USEPA describes the metal coil coating process as one that includes <u>"a wet station and one or more coating operations consisting of a coating application station, a curing oven, and a guench area".</u>

Copies of the IDEM TSDs and the Section 3.0 of the USEPA National Emissions Standards for Hazard Air Pollutants: Metal Coll Surface Coating Industry Background Information for Proposed Standards are included in Attachment A.

The lspat TSD clearly states that the application of a rust preventative oil to a steel coil is not subject to the NSPS because the rule only applies to coating operations which use a curing oven and quench station as part of the process.

As indicated in Mr. Brodsky's response, he indicated the roll oil fails under the definition of coating. As stated in the Syndicate TSD, an oil can be considered a coating and not be subject to the NSPS outlined in 40 CFR 60, Subpart TT.

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The Kasie TDS specifically states that the application of a rust preventative coating is not a prime or finish coat operation.

The USEPA's own National Emissions Standards for Hazard Air Pollutants: Metal Coil Surface Coating Industry Background Information for Proposed Standards supports NACME's position as it clearly states that a metal coil surface coating operation consists of a wet station and one or more coating operations consisting of a coating application station, a curing oven, and a quench area. If USEPA believed that a rust preventative surface coating without a curing oven or a quench station – such as NACME's here – fell within the definition of a metal surface coating operation and Subpart TT, then it would not have limited its guidance (or its definitions) to only those operations that include curing ovens and quenching stations. By doing so, the USEPA has clearly expressed its intention that Subpart TT <u>not</u> apply to a metal coating operation <u>unless</u> there is a curing oven or quench station involved. This conclusion is consistent not only with the definitions promulgated by USEPA itself in 40 CFR. 60.461, but also with the application of those definitions by IDEM to coating lines similar to NACME's here as detailed above.

Taken together, the TSDs, the USEPA guidance document, and the definitions in Subpart TT provide convincing evidence that the application of a rust preventative oil onto the metal coils does not meet the definition of finish or prime coat operations and, as a result, are not subject to the NSPS requirements of 40 CFR 60, Subpart TT.

Permit Condition No. 2b

Condition 2b states that, pursuant to 40 CFR 60.462(a)(1), each owner or operator subject to 40 CFR 60, Subpart TT shall not cause to be discharged into the atmosphere, more than 0.28 kilograms per liter of coating solids applied for each calendar month.

NACME Comment: Based upon the information provided in the initial May 2012 draft FESOP response and the additional information provided in this correspondence, NACME requests revision of Condition 2a to state that the NSPS of 40 CFR 60, Subpart A and TT does not apply to metal coil protective oil application operations at the facility since the protective rust preventative oil application operation does not meet the definition of prime coat or finish coat

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operations as outlined in 40 CFR 60.461. As indicated above, 40 CFR 60, Subpart TT does not apply since the protective rust preventative oil application process do not meet the definition of either the prime coat or finish coating operations listed in 40 CFR 60.461 and the protective oil coating remains on the metal coils after application (e.g., is not cured or dried) and does not contain any solids.

Permit Condition No. 4b

Condition No. 4b indicates that no more than 8 pounds VOM per hour of organic material shall be discharged into the atmosphere from any emission unit.

NACME Comment: Per our previous comment regarding this permit condition, NACME requests that additional language be inserted into Permit Condition 4b that states the coil oil application operation is not subject to the limitations of 35 IAC 218.301 pursuant to 35 IAC 218.209 which states:

No owner or operator of a coating line subject to the limitations of Section 218.204 of this
Part is required to meet the limitations of Subpart G (Section 218.301 or 218.302) of this
Part, after the date by which the coating line is required to meet Section 218.204 of this
Part

Permit Condition No. 11c

Condition 11c references monthly and annual limits on HAP emissions for both individual and combined HAP emissions. Additionally, this Condition also references the NESHAP for Surface Coating of Metal Coil (40 CFR 63, Subpart SSSS).

<u>NACME Comment:</u> Per our previous comments, while the language in the Condition referencing the non-applicability of the NESHAP for Steel Pickling Operations in 40 CFR 63, CCC is accurate there is no regulation that limits monthly or annual individual or combined HAP emissions other than maintaining these HAP emission levels below the major source levels of 10 tons per year of individual HAPs and 25 tons per year combined HAPs.

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Therefore, in addition to the removal of the reference to the Surface Coating of Metal Coils that the IEPA has already agreed to, NACME requests that the monthly and annual emission limitations outfined in the current draft FESOP be removed. However, NACME understands the importance of minimizing the emissions of HAPs and would accept to have this Condition revised to limit individual HAP emissions to 9.0 tons per year and combined HAP emissions to 22.5 tons per year (below major source threshold levels) with no monthly limitations.

Permit Condition No. 13a and b/Permit Condition No. 14a and b

<u>NACME Comment</u>: As indicated in the comments regarding Permit Condition Nos. 2a and b, the protective oil application operation at the facility does not meet the definition of prime coat or finish coat operations and the Metal Coil Surface Coating NSPS does not apply. NACME request that Permit Condition Nos. 13a and b and 14a and b be removed from the FESOP.

Permit Condition No. 18/Permit Condition No. 19a and b/Permit Condition No. 20/Permit Condition No 25

<u>NACME Comment</u>: As indicated in the comments regarding Permit Condition Nos. 2a and b, 13a and b, and 14a and b, the protective oil application operation at the facility does not meet the definition of prime coat or finish coat operations and the Metal Coil Surface Coating NSPS does not apply. NACME request that Permit Condition Nos. 18, 19a and b, 20 and 25 be removed from the FESOP.

If you have any questions or require further information, please contact our consultant, Britt Wenzel of Mostardi Platt at 630-993-2123.

Respectfully Submitted,

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Britt Wenzel / Director, Environmental, Health & Safety Compliance Services

cc: J. DuBrock, National Processing Company David Susler, National Material L.P. Ms. Nancy Tikalsky, IAG Attachment A – IDEM Technical Support Documents and USEPA Guidance on Metal Coil Coating Operations

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Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for New Construction and Operation

Source Background and Description

Source Name:	Ispatiniand, inc.			
Source Location:	3210 Watting Street, East Chicago, Indiana 46312			
County:	Lake			
Construction Permit No.:CP-089-10472-00316				
SIC Code:	3312			
Permit Reviewer:	Bryan Sheets			

The Office of Air Management (OAM) has reviewed an application from Ispat Inland, Inc. (Inland), relating to the construction and operation of the No. 6 Continuous Coating Line, which will galvanize steel sheets at a maximum capacity of 200,000 tons per year. The No. 6 Continuous Coating Line, consists of the following equipment:

- (a) One (1) electrical resistance welder exhausting inside the building.
- (b) One (1) alkali cleaning system, consisting of electrolytic and sodium hydroxide dunk tanks, and a brush scrubbers rinse tank, and exhausting inside the building.
- (c) One (1) natural gas-fired strip dryer, identified as source ID 250, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.
- (d) One (1) natural gas-fired radiant tube furnace heating section, identified as source ID 251A, with a heat input capacity of 102.05 million Btu per hour, and exhausting through one (1) stack, identified as 251.
- (e) One (1) natural gas-fired radiant tube furnace soaking section, identified as source ID 251B, with a heat input capacity of 5.4 million Btu per hour, and exhausting through one (1) stack, identified as 251.
- (f) Two (2) zinc pots, one (1) aluminum pot, one (1) zinc premelt pot, and one (1) aluminum zinc premelt pot, with electric induction heating for each pot, and all exhausting inside the building.
- (g) One (1) natural gas-fired galvanneal soaking fumace, identified as source ID 252, with a heat input capacity of 6.5 million Btu per hour, and exhausting inside the building.
- (h) One (1) natural gas-fired strip dryer, identified as source ID 253, with a heat input capacity of 2.04 million Btu per hour, and exhausting inside the building.
- (i) One (1) chem-treat roll coating system with one (1) natural gas-fired strip dryer, identified as source ID 254, with a heat input capacity of 2.05 million Btu per hour, and exhausting inside the building.
- (j) One (1) phosphate roll coating system with one (1) natural gas-fired infra-red furnace, identified as source ID 255, with a heat input capacity of 9.36 million Btu per hour, and exhausting inside the building.
- (k) Three (3) electrostatic oilers exhausting inside the building.
Ispat Intend, Inc. Eest Chicago, Indiana Permit Reviewer: Bryan Sheets Page 2 of 6 CP-089-10472 ID-089-00316

- (I) Natural gas-fired space heaters, identified as source ID 256, with a heat input capacity of 77.52 million Bty per hour, and exhausting through one (1) stack, identified as 258.
- (m) One (1) natural gas-fired boiler, identified as source ID 257, with a heat input capacity of 22.95 million Btu per hour, and exhausting through one (1) stack, identified as 257.

Recommendation

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

Information, unless otherwise stated, 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 December 17, 1988, with additional information received on January 25, 26 and 29, 1999.

Emissions Calculations

See Appendix A (Emissions Calculation Spreadsheets) for detailed calculations (2 pages).

Total Potential and Allowable Emissions

Indiana Permit Allowable Emissions Definition (after compliance with applicable rules, based on 8,760 hours of operation per year at rated capacity):

Pollutant	Allowable Emissions (tons/vear)	Potential Emissions (tons/vear)	
Particulate Matter (PM)	79.75	7.5	
Particulate Matter (PM10)	79,75	7.5	
Sulfur Dioxide (SO ₂)	0.6	0,6	
Volatile Organic Compounds (VOC)	3.42	3,42	
Carbon Monoxide (CO)	82.9	82.9	
Nitrogen Oxides (NO,)	211.5	211.5	
Single Hazardous Air Pollutant (HAP)	1.78	1.78	
Combination of HAPs	1.86	1.86	

- (a) Allowable PM emissions for the boller are determined from the applicability of rule 326 IAC 5-2-4. Allowable PM emissions from the remaining facilities are determined from the applicability of rule 326 IAC 6-1-2. PM is assumed to equal PM₁₀. See attached spreadsheets for detailed calculations.
- (b) The allowable emissions for the boiler and coating line based on the rules cited are greater than the potential emissions, therefore, the potential emissions are used for the permitting determination.
- (c) Allowable emissions (as defined in the Indiana Rule) of NOx are greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-1, Sections 1 and 3, a construction permit is required.

ispat Inland, Inc. East Chicago, Indiana Permit Reviewer: Bryan Sheets Pags 3 of 6 CF-089-10472 ID-089-00316

County Attainment Status

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. A portion of Lake County has been designated as nonattainment for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Portions of Lake County have also been classified as nonattainment for CO, PM₁₀ and SO₂. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (c) Inland is located in the portion of Lake County classified as nonattainment for the above mentioned pollutants.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	1,089
PM10	1,089
SO,	14,595
VOC	4,525
CO	5,434
NO,	12,009

- (a) This existing source is a major stationary source because it is in one of the 28 listed source categories and at least one regulated pollutant is emitted at a rate of 100 tons per year or more.
- (b) These emissions were based on the Facility Quick Look Report, dated 1996.

Proposed Modification

PTE from the proposed modification (based on 8,760 hours of operation per year at rated capacity including enforceable emission control and production limit, where applicable):

Pollutant	РМ (ton/ут)	PM ₁₀ (ton/yr)	SQ _z (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO _x (ton/yr)
Proposed Modification	6.1	6.1	0.5	2.62	67.5	193.2
Contemporaneous increases from No.1 Normalizer Preheater Furnace, Annealing Furnace for No.1 Normalizer, No. 5 Gaivanizing Line Radiant Tube Furnace, HRCC Project and Vacuum Degasser (proposed)				22.8		
Contemporaneous Decreases						
Net Emissions	6.1	6.1	0.5	25.6	67.5	193.2
Emission Offset Significant Level	25	15	40	25	100	40

Ispat Inland, Inc. East Chicago, Indiana Permit Reviewer: Bryan Sheets Page 4 of 6 CP-069-10472 ID-069-00316

Note: The natural gas usage at the space heating unit will be limited to 300 MMCF per year. Therefore, Inland will have enough NO_x credits to meet the requirements of 326 IAC 2-3 (Emission Offset).

This modification to an existing major stationary source is major for VOC and NO_x because the emissions increases are greater than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source has submitted their Part 70 (T-089-6577-00316) application on September 16, 1996. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Federal Rule Applicability

The 22.95 million Btu per hour boiler is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60, Subpart Dc). However, there are no applicable requirements for a boiler that combusts only natural gas.

The application of rust preventative oils to the steel coils is not subject to the New Source Performance Stendard, 326 IAC 12, (40 CFR Part 60, Subpart TT) because this rule only applies to coating operations which use a curing oven and quench station as part of the process.

There are no other New Source Performance Standards (326 IAC 12) or National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61 and 63) applicable to this source.

State Rule Applicability

326 IAC 2-3 (Emission Offset)

Pursuant to 326 IAC 2-3 (Emission Offsets), the following requirements shall be satisfied:

- (a) The applicant shall demonstrate that all existing major sources owned or operated by the applicant in the state of Indiana are in compliance with all applicable emissions limitations and standards contained in the CAA and in this title. The Office of Enforcement has stated that there are no outstanding or unresolved issues for Inland as of February 11, 1999. Therefore, this requirement has been satisfied.
- (b) The applicant will apply emission limitation devices or techniques to the proposed construction or modification such that the lowest achievable emission rate (LAER) for the applicable pollutant will be achieved. Inland will substitute an additional 1.3 offset amount as allowed by 326 IAC 2-3-2(b)(3). Therefore, this requirement has been satisfied.
- (c) The applicant shall submit an analysis of alternative sites, sizes, production processes, and environmental control techniques for such proposed source which demonstrates that benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification. The OAM has reviewed and accepted the alternative site analysis submitted by lspat inland, Inc. Therefore, this requirement has been satisfied.
- (d) VOC and NO_x emissions resulting from the proposed construction or modification shall be offset by a reduction in actual emissions of the same pollutant from an existing source or a combination of existing sources.

tspat Intand, Inc. East Chicago, Indiana Permit Reviewer, Bryan Sheets Page 5 of 6 CP-089-10472 ID-089-00316

For severe ozone nonattainment the minimum offset requirement is 1.3 to 1. The following calculation demonstrates that ispat inland, Inc. shall meet this requirement:

	NO _x (tons/yr)	VOC (tons/yr)
Project Emissions	193.2	2.82
Required Offsets (Project Emissions x 2.6)*	502.3	7.3
Available Offsets	532.1	11.0
Shutdown of 76" Hot Strip Mill (in 1985)	353.9	11.0
Shutdown of 100" Plate Mill (in 1995)	122.7	
Shutdown of No. 4 Slabber Pits 19-45 (in 1996)	55.5	
Excess Emission Credits	29.8	3.7

The emissions are multiplied by 1.3 as required by 326 IAC 2-3-3, and an additional 1.3 substituted for LAER, pursuant to 326 IAC 2-3-2.

Since the credits are greater than offsets required by this rule, Inland complies with the requirements of 326 IAC 2-3 (Offset Emissions). After completion of this proposed modification, inland has available offset credits from the No. 4 Slabber Pits 19-45 in the amount of 29.8 tons of NO₂/yr and from the 76⁴ Hot Strip Mill in the amount of 3.7 tons of VOC/yr.

325 IAC 2-6 (Emission Reporting)

These facilities are subject to 326 IAC 2-8 (Emission Reporting), because the source emits more than 10 tons/yr of VOC and NO_x in Lake County . Pursuant to this rule, the owner/operator of this source must annually submit an emission statement of the source. The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4.

326 (AC 4-1 (Open Burning)

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

326 IAC 5-1 (Visible Emissions Limitations)

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

- (a) Opacity shall not exceed an average of twenty percent (20%) 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.

Ispail Intand, Inc. East Chicago, Inidiana Permit Reviewer: Bryan Sheets Page 6 of 6 CP-089-10472 ID-089-00316

326 IAC 6-1-2 (Nonattainment Area Particulate Limitations)

Particulate matter emissions from all combustion facilities, excluding the boiler which is regulated by 326 IAC 6-2-4, shall not exceed 0.01 grains per dry standard cubic foot (gr/dscf). These include all facilities exclausting to stacks 250 through 256. Particulate matter emissions from all other noncombustion facilities, including the electrical resistance welder and alkali cleaning system, shall not exceed 0.03 grains per dry standard cubic foot.

326 IAC 6-2-4 (Particulate Emissions Limitations for Sources of Indirect Heating)

The 22.95 MMBtu/hr natural gas-fired boiler is subject 326 IAC 6-2 (Particulate Emissions Limitations for Sources of Indirect Heating). Pursuant to 326 IAC 6-2-4, the particulate matter (PM) emissions shall be limited to 0.116 pounds per million BTU heat input because the source's total heat input capacity is 5465.3 MMBtu/hr. The limitation is based on the following equation:

Pt = $\frac{1.09}{Q^{0.26}}$ where Q = Total source heat input capacity (MMBtu/hr); and Pt = Allowable emission rate (Ib/MMBtu)

326 IAC 6-4 (Fugitive Dust Emissions)

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitation)

All of the combustion units associated with this project will be required to use natural gas as the only fuel. Therefore, the requirements of 326 IAC 7-1.1 will not apply.

326 IAC 8-2-4 (Coil Coating Operations)

The process of applying zinc, aluminum and oils to the steel coils are not subject to this rule because actual emissions of VOC from the coating operations will be less than 15 pounds per day.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 189 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Construction Permit Application Form Y.

- (a) This modification will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to Clean Air Act.
- (b) See attached spreadsheets for detailed air toxic calculations.

Conclusion

The construction of this continuous coating line will be subject to the conditions of the attached proposed Construction Permit No. CP-089-10472-00316.

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Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) and Enhanced New Source Review (ENSR)

Source Background And Description

Source Name:	Syndicate Sales, Inc.
Source Location:	2025 North Wabash Street
	Kokomo, Indiana 46901-2063
County:	Howard
SIC Code:	3089, 3469
Operation Permit No.:	F067-7699-00026
Permit Reviewor.	Trish Earls/EVP

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Syndicate Sales, Inc. relating to the operation of a stationary plastic container/pot and metal floral stem manufacturing operation.

Permitted Emission Units and Pollution Control Equipment

There are no permitted facilities operating at this source during this review process.

Unpermitted Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)

The source also consists of the following unpermitted facilities/units:

- (1) one (1) flow coating line consisting of:
 - (a) one (1) flow coater (Emission Unit iD No. 1) coating a maximum of 0.0818 plastic pots per hour, exhausting at one (1) stack (ID No. Vent 1);
 - (b) one (1) UV exposure room;
 - (c) two (2) vacuum metallizers;
 - (d) one (1) aqueous dya dip tank;
 - (e) two (2) rinse tanks; and
 - (f) one (1) electric drying oven.

(2) one (1) metal stamping press line consisting of:

- (a) three (3) metal stamping presses (Emission Unit ID Nos. 2, 3, and 4) coating a maximum of 0.1033 metal floral stems per hour, and
- (b) one (1) packaging operation.

Syndicate Sales, Inc. Kokomo, Indiana Permit Reviewer, TE/EVP Page 2 d[.] 12 F067-7689-00026

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units (Btu) per hour;
- (2) propane or liquefied petroleum gas, or butane-fired combustion sources with heat input less than six million (6,000,000) Biu per hour;
- (3) combustion source flame safety purging on startup;
- (4) VOC and HAP storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons;
- (5) vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings;
- (7) machining where an aqueous cutting coolant continuously floods the machining interface;
- degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6;
- (9) cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psl measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months;
- (10) exposure chambers ("towers", "columns"), for curing of ultraviolet inks and ultra-violet coatings where heat is the intended discharge;
- any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPs;
- (12) water based adhesives that are less than or equal to 5% by volume of VOCs, excluding HAPs;
- (13) forced and induced draft cooling tower system not regulated under a NESHAP;
- (14) payed and unpayed roads and parking lots with public access;
- (15) enclosed systems for conveying plastic raw materials and plastic finished goods;
- (16) purging of gas lines and vessels that is related to routing maintenance and repair of . buildings, structures, or vehicles at the source;
- (17) equipment used to collect released material;
- (18) blowdown for any of the following: sight glass; boiler, compressors; pumps; and cooling tower;
- (19) grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute;
- (20) a laboratory as defined in 326 IAC 2-7-1(20)(C);
- (21) a plastic molding operation, including five (5) plastic pellet storage silos and eighteen (18) plastic molding machines;
- (22) a hot stamping operation, including five (5) hot stamp machines;
- (23) a floral paper operation, including a waxer and a sheeter, and
- (24) a stemming machine production line, including machining operations and a paint spray booth.

Enforcement Issue

(a) IDEM is aware that the following equipment has been constructed and operated prior to

Syndicate Sales, Inc. Kokomo, Indiana Permit Reviewer: TE/EVP Page 3 of 12 F067-7689-00026

receipt of the proper permit

(1) one (1) flow coating line consisting of:

- (a) one (1) flow coater (Emission Unit ID No. 1) coating a maximum of 0.0818 plastic pots per hour, exhausting at one (1) stack (ID No. Vent 1);
- (b) one (1) UV exposure room;
- (c) two (2) vacuum metallizers;
- (d) one (1) aqueous dye dip tank;
- (e) two (2) rinse tanks; and
- (f) one (1) electric drying oven.
- (2) one (1) metal stamping press line consisting of
 - (a) three (3) metal stamping presses (Emission Unit ID Nos. 2, 3, and 4) coating a maximum of 0.1033 metal floral stems per hour, and
 - (b) one (1) packaging operation.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit will also satisfy the requirements of the construction permit rules.

Recommendation

The staff recommends to the Commissioner that the FESOP 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 administratively complete FESOP application for the purposes of this review was received on December 13, 1996. Additional information was received on September 26, 1997.

Emissions Calculations

See Appendix A: Emissions Calculations for detailed calculations (2 pages).

Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	Q.0
PM-10	0.0
\$O ₂	0.0
VOC	225.7
0	0.0

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	· · · · · · · · · · · · · · · · · · ·
NOr	0.0
Note: For the purpose of determinin	g Title V applicability for particulates,
PM-10, not PM, is the regulat	ed pollutant in consideration.
HAP	Potential Emissions (lons/year)
	a yang bahar kanang sa

See attached spreadsheets for detailed calculations (2 pages).

- (a) The potential emissions (as defined in the Indiana Rule) of VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.

(c) Fugitive Emissions Since this type of operation is not one of the 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 emissions are not counted toward determination of PSD and Emission Offset applicability.

Limited Potential To Emit

- (a) To simplify record keeping and to accommodate unpredictable variations in production, the source has accepted federally enforceable production limitations that limit potential to emit VOC to 91 tons per 12 consecutive month period. This limit was established at 11/12 ths of 99 tons per year to eliminate the effect that daily variations would have on any 365 day period. This limit consists of:
 - (i) 90.56 tons per year for the significant activities; and
 - (ii) 0.44 tons per year for the insignificant activities.
- (b) The table below summarizes the total illmited potential to emit of the significant and insignificant emission units.

		Limited Potential to Emit (tons/year)					
Process/ facility	PM	PM-10	SO₂	VOC	CO	NOx	HAPs
Flow Coater	0,0	0.0	0.0	65,76	0.0	D.0	0.0
Metal Stamping Presses	Q.0	0.0	0.0	24.80	0.0	0.0	0.0
Insignificant Activities	Q.D	0.0	0:0	0.44	0.0	0.0	0.0

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							,
Total	0.0	0.0	0.0	91.00	0.0	0.0	0.0
Emissions							

Attached Table A summarizes the permit conditions and requirements.

County Attainment Status

The source is located in Howard County.

Pollutarit	Status
. TSP	attainment
PM-10	ettainment
. S0,	stleinment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Howard County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) The metal stamping press line is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.460, Subpart TT), "Standards of Performance for Metal Coil Surface Coating". This rule applies to each prime coat operation, each finish coat operation, and each prime and finish coat operation combined, when the finish coat is applied wet over the prime coat, and both coatings are cured simultaneously. Where only a single coating is applied to the metal coil, that coating is considered a finish coat. The definition of a finish coat operation is the coating application station, curing oven, and quench station used to apply and dry or cure the final coating on the surface of the metal coil. The metal stamping press line only involves coating the metal coil with a petroleum lubricating oil to facilitate the shaping and curting of the coil into floral stems in the stamping presses. There are no curing ovens or quench stations associated with this process. The metal stamping press line does not fail under the definition of a finish coat operation, therefore, the requirements of 40 CFR 80.460, Subpart TT do not apply.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), which would require the source to submit an annual emission statement. Pursuant to this rule, any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or

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processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is enforceable. This source has accepted federally enforceable operation conditions which limit emissions of volatile organic compounds (VOC) to below 100 tons per year. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4 (FESOP)

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, source wide VOC emissions must be limited to no more than 99 tons per year. The source has accepted a VOC usage Imitation for the Flow Coater (ID No. 1) of 85.76 tons per 12 consecutive month period. By accepting this VOC usage fimitation for the Flow Coater (ID No. 1), source wide VOC emissions are limited to 91.0 tons per 12 consecutive month period, thus the source satisfies the requirements of 326 IAC 2-8-4 and the requirements of 326 IAC 2-7 do not apply. These limitations will also render 326 IAC 2-2 not applicable.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Mislible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit

- Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-(a) four (24) consecutive readings as determined by 326 IAC 5-1-4,
- Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative (b) total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

The flow coater is subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of 25 or more tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). Potential VOC emissions from the flow coater are 200.44 tons per year. Since the potential VOC emissions are greater than 25 tons per year, the requirements of 326 IAC 8-1-6 apply to the flow coater.

Syndicate Sales, Inc. has submitted a BACT analysis, dated February 19, 1996, as part of this FESOP application.

The options considered in the BACT analysis for the flow coater are:

- (1)Recuperative Thermal Incineration
- (2)Regenerative Thermal Incineration
- Recuperative Catalytic Incineration
- (3) (4) Regenerative Catalytic incineration
- (5) Flare
- (6) Other Innovative Destruction Technologies

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- (7) Carbon Adsorption
- (8) Absorption
- (9) Condensation
- (10) Carbon Adsorption with Recuperative Thermal Incineration
- (11) Absorption and Incineration

It was determined that options 6, 10 and 11 are technically infeasible due to the following reasons:

- (6) None of the innovative destruction technologies such as biofilters or systems applying ultraviolet radiation seem well documented, in particular, process cost information is lacking. These options were not considered to be commercially available.
- (10) The combination of carbon adsorption with thermal oxidation is not a suitable VOC control technology for the flow coater because the inlet VOC concentration is too high. The VOC concentration in the desorb stream would exceed 25% of the LEL, making the concentrated stream unsuitable for thermal oxidation.
- (11) Absorption concentrators are typically suited for batch processes or to equalize pollutant concentrations in a variable stream. The physical characteristics that drive the absorption of pollutants into a liquid also limit the opportunity to remove these pollutants from the liquid stream. Because the combination of absorption with indineration has only limited application, it was not considered feasible.

The technically feasible options are recuperative thermal incineration, regenerative thermal incineration, recuperative catalytic incineration, regenerative catalytic incineration, a flare, carbon adsorption, absorption, and condensation. A cost analysis was performed to determine the economic feasibility of these control options for the flow coater VOC emissions. The cost analysis is based on a federally enforceable limited VOC throughput of 65.76 tons per year for the flow coater.

Capital Cost

The tables below show the results of the cost analysis.

Option	Base Price	Direct Cost	Indirect Cost	Total
Recuperative Thermal Incineration	(1)	(1)	(1)	296,596
Regenerative Thermal Incineration	(1)	(1)	(1)	509,598
Recuperative Catalytic Incineration	(1)	(1)	(1)	218,923
Regenerative Catalytic Incineration	(1)	(1)	(1)	171,417
Absorption	(1)	(1)	(1)	2,592,442
Carbon Adsorption	(1)	(1)	(1)	124,275
Condensation	(1)	(1)	(1)	281,923

(A)

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Flare	(1)	(1)	(1)	167,062

(1) Total Capital Cost includes Base Price, Direct Cost and Indirect Cost,

(B)

Annual Operating, Maintenance & Recovery Cost

Option	Direct Cost	Indirect Cost	Capital Recovery Cost	Total
Recuperative Thermal Incineration	12,814	16,033	48,270	77,117
Regenerative Thermal Incineration	9,180	24,553	82,935	116,668
Recuperative Catalytic Incineration	15,097	12,928	33,994	62,017
Regenerative Catalytic Incineration	15,404	11,028	26,263	52,693
Absorption	13,255	107,867	421,908	543,030
Carbon Adsorption	198,222	9,140	19,270	226,632
Condensation	136,899	15,446	45,882	198,227
Flare	427,617	10,853	21,967	460,436

(C)

Evaluation .

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Option	Limited Potential Emissions (tons/yr)	Emissions Removed (tons/yr)	Control Efficiency (%)	\$/ton Removed
Recuperative Thermal Incineration	65.76	62.47	95	1,234
Regenerative Thermal Incineration	65.76	62.47	95	1,858

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Recuperative Catalytic Incineration	65.76	62.47	\$5	993
Regenerative Catalytic Incineration	65.76	62.47	95	843
Absorption	65,78	64.44	98	8,427
Carbon Adsorption	65.78	62,47	95	3,628
Condensation	65.76	46,03	70	4,306
Flare	. 65.76	64. 44	98	7,145

Methodology:

Emissions removed = (limited potential emissions from warehouse) * (control efficiency) \$/ton removed = total annual cost / emissions removed

The cost breakdown is as follows:

1. Capital Cost

 Base price: purchase price, auxiliary equipment, instruments, controls, taxes and freight.

 b) Direct installation cost: foundations/supports, erection/handling, electrical, piping, insulation, painting, site preparation and building/facility.

 Indirect installation cost engineering, supervision, construction/filed expenses, construction fee, start up, performance test, model study and contingencies.

2. Annual Cost

- a) Direct operating cost operating labor (operator, supervisor), labor and material maintenance, operating materials, utilities (electricity, gas).
- b) Indirect operating cost overhead, property tax, insurance, administration and capital recovery cost (for 10 years life of the system at 10% interest rate).

From the cost analysis, six technology options appear to offer cost effectiveness less than \$5,000 per toh. Absorption and flare options are not cost effective. Carbon adsorption and condensation have marginal cost effectiveness, however, thermal destruction methods offer such greater cost effectiveness than the reclamation options that only the destruction methods were considered further. The annual cost of the destruction methods were compared to Syndicate Sales, Inc.'s average net profit before taxes for 1992 through 1995. The results expressed the total annual cost of the control options as a percentage of the average net profits before taxes for 1992 through 1995. The table below summarizes these results.

Control Option	Capital Cost	% of Net Profit	Annual Cost	% of Net Profit
Recuperative Thermal	296,596	514	77,117	133
Regenerative Thermal Incineration	509,598	882	116,668	202

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Recuperative Catalytic Incineration	218,923	379	62,017	107
Regenerative Catalytic Incineration	171,417	297	52,693	91

Based on this information, none of these control options are economically feasible. Because all options are either technically infeasible or economically infeasible, no VOC emission control has been determined to be BACT. Also, because the BACT analysis was based on an enforceable limited VOC throughput of 65.76 tons per year for the flow coater, this throughput limitation is part of the BACT determination. Thus, in summary, BACT for the flow coater has been determined to be a limited VOC throughput of 65.76 tons per year, no add-on controls, and the following work practices:

- the cleanup solvent containers used to transport solvent from drums to work stations shall be closed containers having soft gasketed spring-loaded closures;
- (2) cleanup rags saturated with solvent shall be stored, transported, and disposed of incontainers that are closed tightly;
- (3) any solvent that may be sprayed during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as solvent spraying is complete.

The metal stamping press line is not subject to the requirements of 326 IAC 8-1-6 since potential VOC emissions from the three (3) stamping presses (ID Nos. 2, 3, and 4), constructed in 1982, are less than 25 tons per year.

326 IAC 8-2-4 (Coil Coating Operations)

The three (3) metal stamping presses (ID Nos. 2, 3, and 4) are not subject to the provisions of 326 IAC 8-2-4 since the presses were constructed in 1982, are located in Howard County, and potential VOC emissions are less than 25 tons per year.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

The three (3) metal stamping presses (ID Nos. 2, 3, and 4) are not subject to the provisions of 326 IAC 8-2-9 since the presses were constructed in 1982, are located in Howard County, and potential VOC emissions are less than 25 tons per year.

There are no other 326 IAC 8 rules that apply.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds

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for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows: .

The flow coater (ID No. 1) has applicable compliance monitoring conditions as specified below:

- (a) Total VOC usage in the flow coater shall be limited to 65.8 tons per twelve (12) consecutive month period, rolled on a monthly basis.
- (b) Quarterly reports shall be submitted to OAM Compliance Section. These reports shall include annual VOC usage, rolled on a monthly basis.

These monitoring conditions are necessary to ensure compliance with 326 IAC 2-8 (FESOP) and 326 IAC 8-1-6 (New Facilities; General Reduction Requirements).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (QAM) FESOP Application Form GSD-08.

None of these listed air toxics will be emitted from this source.

Conclusion

The operation of this plastic container and metal floral stem manufacturing operation will be subject to the conditions of the attached proposed FESOP No. F067-7699-00026.

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·		Table /	٩		
Stack/Vent ID: Vent 1					
Stack/Vent Dimensions:	Ht: 35' D	lia: 16"	Temp: 77ºF	Flow: 1,98) acfm
Emission Unit: Flow Coate	r		•		
Date of Construction: 7/83					
Alternative Scenario: N/A					
Pollution Control Equipmen	t: N/A				
General Description of	VOC usage				T
Kequirement:	limitation				
Numerical Emission Limit	65.8 tons/yr				
Regulation/Citation:	325 IAC 2-8 a 326 IAC 8-1-6	nd			
Compliance Demonstration:	Record keepin and Reporting	9			
PERFORMANCE TESTING	NIA				
Parameter/Pollutant to be Tested:					
Testing Method/Analysis:					••••••••••••••••••••••••••••••••••••••
Testing Frequency/Schedule	B:		1		1
Submittal of Test Results:					1.
COMPLIANCE MONITORING					
Monitoring Description:	record keeping and reporting				
Monitoring Method:		l	1	<u>مى المانتين التكافر موجود موجود الم</u>	
Monitoring Regulation/Citation:					
Aonitoring Frequency:	monthly				
ECORD KEEPING					
'arameter/Pollutant to be lecorded:	VOC usage per month	·			
ecording Frequency:	monthly	1			
ubmittal Schedule of eports:	quarteriy			in the second	
EPORTING EQUIREMENTS					
formation in Report:	VOC usage per month				
eporting requency/Submittal:	quarterly				
dditional Comments:					

Indiana Department of Environmental Management Office of Air Quality

Technical Support Documerit (TSD) for an Exemption

Source Background and Description

Source Name: Source Location: County: SIC Code: Operation Pennit No.: Permit Reviewer: Kasle Metal Processing 5146 Maritime Road, Jeffersonville, IN 47130 Clark 3479 019–22372-00119 James Farrell

The Office of Air Quality (OAQ) has reviewed an application from Kasle Metal Processing relating to the construction and operation of a steel blanking facility. The steel blanking process shapes steel colls into blanks and then applies a non-HAP surface coating as a rust preventative.

New Emission Units and Pollution Control Equipment

The source consists of the following emission units and pollution control devices:

- (a) Two (2) EGL-1 application lines, applying rust preventive surface coating to steel blanks, (identified as EGL Application Line 1 and 2), with a maximum capacity of 300 feet per minute, each, using no control, exhausting to the atmosphere.
- (b) Two (2) wash lines (Identified as Wash Line 1 and 2), with a maximum capacity of 300 feet per minute, each, using no control, exhausting to the atmosphere.
- (c) Two (2) 2.5 MMBtu Natural gas-fired boilers, identified as Boiler 1 and 2, using no control, exhausting to the atmosphere.
- (d) Four (4) 1.55 MMBtu Natural gas-fired Air Make-Up Units, with no unit I.D.'s and using no control, exhausting to the atmosphere.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the construction and 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.

A complete application for the purposes of this review was received on December 15, 2005.

Kasle Metal Processing Jeffersonville, Indiana Pennit Reviewer: James Fameli

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Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. The calculations can be found in the application file.

Potential to Emit 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	0.38
PM-10	0.38
SO ₂	0.03
VOC	-3.17
CO	4.12
NO _x	4.81

HAPs	Potential to Emit (tons/yr)	
Single HAP	<10	
Combination HAPs	<25	

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of pollutants are less than the levels listed in 326 IAC 2-1,1-3(d)(1). Therefore, the source is subject to the provisions of 326 IAC 2-1,1-3. An exemption will be issued.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-1.1-3. An exemption will be issued.

County Attainment Status

The source is located in Clark County.

Pollutant	Status Status
PM-10	Attainment
PM-2.5	Nonattainment
SO ₂	Attainment
NO ₂	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Basic Nonattainment
<u> </u>	Attainment
Lead	Attainment

Kasle Metel Processing Jeffersonville, Indiana Permit Reviewer, James Farrell Page 3 of 5 019-22372-00119

- (a) Volafile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Clark County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for nonattainment new source review.
- (b) Clark County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements.
- (c) Clark County has been classified as attainment or unclassifiable in Indiana for all remeining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) 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

New 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	<5
PM-10	<5
SO ₂	<10
VOC	<10
CO	<25
NOx	<10
Single HAP	<10
Combination HAPs	<25

(a) This new source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater, no nonattainment 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. Therefore, pursuant to 326 IAC 2-2 and 2-3, the PSD and Emission Offset requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

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

- 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 is the first air approval issued to this source.

Kasle Metal Processing Jeffersonville, Indiana Permit Reviewer, James Fameli Page 4 of 5 019-22372-00119

Federal Rule Applicability

- (a) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, 40 CFR 60,460, Subpart TT – Standards and Performance for Matal Coil Surface Coating Operations, which applies to prime coat, finish coat and prime and finish coat combined operations because it is not a prime or finish coat operation. Therefore, this NSPS is not included in this exemption.
- (b) This source is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, 40 CFR 60.40c, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which applies to steam generating units constructed, modified or reconstructed after June 9, 1989 and has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MVV (10 million Btu/hr) because each of the boilers have heat input values of less than 10 million Btu/hr. Therefore, this NSPS is not included in this exemption.
- (c) The metal coll surface coating unit is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart MMMM - (Surface Coating of Miscellaneous Metal Part and Products) because it does not apply topcoat to automobile or light-duty truck body parts and is not a major source of HAPs.
- (d) The metal coil surface coating unit is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart SSSS – (Surface Coating of Metal Coil) because it is not a major source of HAPs.
- (e) The two (2) 2.5 MMBtu/hr bollers are not subject to the requirements of the National Emission Standards for Hazardous Air Poilutants (NESHAP), Subpart DDDDD – Standards for Industrial, Commercial and Institutional Bollers and Process Heaters, because it is not a major source of HAPs.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is not required to have an operating permit under 326 IAC 2-7, does not emit lead into the ambient air at levels \geq 5 tpy, and is located in Clark County. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Ópacity 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 thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed soly 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.

State Rule Applicability - Individual Facilities

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

The operation of this steel blanking facility will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply,

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326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(d)) Pursuant to 326 IAC 6-2-4(a) particulate emisisons from indirect heating constructed after September 21, 1983 shall be limited by the following equation:

$$= \frac{1.09}{Q^{0.25}}$$

where

Q = total source heat input capacity (MMBtu/hr) Pt = emission rate limit (lbs/MMBtu)

Pt

Therefore, particulate emissions from the two (2) 2.5 MMBtu/hr boiler shall not exceed 0.6 b/mmBtu heat input because the total source maximum operating capacity heat input for indirect heating is less than 10 MMBtu/hr.

- 326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(d)) This rule is not applicable to the air make-up units because they are not sources of indirect heating. Therefore, the requirements of 326 IAC 6-2-4 do not apply to the air make-up units.
- 326 IAC 6-3-1 (Particulate Emission Limitations for Manufacturing Processes) Pursuant to 6-3-1(b)(1), the two (2) 2.5 MMBtu boilers are exempt from the requirements of 6-3-1 because it uses combustion for indirect heating. Therefore, the requirements of 326 IAC 6-3-1 do not apply to the boilers.
- 326 IAC 6-3-2 (Particulate Emission Limitations, Work Practices, and Control Technologies) The emission units at this source have negligible Particulate emissions. Therefore the requirements of 326 IAC 6-3-2 do not apply.
- 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) The potential emissions from this steel blanking facility are less than 25 tons per year. Therefore, 326 IAC 8-1-6 does not apply.

326 IAC 8-2-1 (Surface Coating Emissions Limitations)

This source is located in Clark County, the potential to emit of VOC from the facility is less than twenty-five (25) tons per year and actual emissions are less than fifteen (15) pounds per day. Therefore, pursuant to 326 IAC 8-2-1, 326 IAC 8-2-4 (Coil Coating Operations) and 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations) do not apply.

326 IAC 8-7-1 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties) This source is located in Clark County, and the potential to emit of VOC is less than 100 tons per year and the coating facility has less than ten (10) tons per year of VOC. Therefore, 326 IAC 8-7-1 does not apply.

Conclusion

The construction and operation of this steel blanking facility shall be subject to the conditions of the Exemption 019-22372-00119.



United States Environmental Protection Agency

Office of Air Quality Planning and Standards Research Triangia Park, NC 27711 http://www.epa.gov/tm/uatw

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National Emission Standards for Hazardous Air Pollutants: **Metal Coil Surface Coating** Industry Background Information for Proposed Standards





3.0 METAL COLL COATING INDUSTRY PROFILE AND PROCESS DESCRIPTION 12

3.1 GENERAL PROCESS DESCRIPTION

The metal coil surface coating source category includes any facility engaged in the surface coating of metal coil. In this process, a coil or roll of uncoated sheet metal is coated on one or both sides and repackaged as a coil or otherwise handled. Although the physical configuration of the equipment used in coil coating lines varies from one installation to another, the individual operations generally follow a set pattern. The coil coating process begins with a coil (or roll) of bare sheet metal and, in most cases, terminates with a coil of metal with a dried and cured coating on one or both sides. The metal strip is unrolled from the coil at the entry to the coil coating line and first passes through a wet section, where the metal is cleaned and may be given a chemical treatment to inhibit rust and promote adhesion of the coating to the metal surface. In some installations, the wet section may also contain an electrogalvanizing operation in which zinc is applied through an electroplating process to a steel substrate. After the metal strip leaves the wet section, it is squeegeed and air dried and then passes to a coating applicator station,

Coating application stations may be used to apply a variety of coatings. In addition to protective or decorative coatings, adhesives and printed patterns using ink may also be applied. The most prevalent operation includes the application of protective and decorative coatings to one or both sides of the metal strip using rollers. Following the coating application, the strip passes through an oven where the temperature is increased to the desired curing temperature of the coating. The strip is then cooled by a water spray, air spray, or combination of the two. If the line is a tandem line, the first coating application is a prime coat and the metal strip next enters another coating applicator station where a top or finish coating is applied by rollers to one or both

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sides of the metal. The strip then enters a second oven for drying and curing of the top or finish coat. This is followed by another cooling or quench station. The finished metal strip is then normally rewound into a coil and packaged for shipment or further processing. In some cases, the coated metal strip may be cut rather than rerolled into a coil. Most metal coil surface coating lines have accumulators at the entry and exit that permit the strip to move continuously through the coating process while a new coil is mounted at the entry or a full coil removed at the exit. Figure 3-1 is a schematic diagram of a typical, tandem coil coating line.

For existing coil coating lines, processing speed varies considerably, with some lines having processing speeds as high as 1,200 feet per minute ³. The widths of the metal strip vary from a few inches up to 6 feet, and thickness may vary from about 0.006 inch to more than 0.15 inch. The lower thickness of 0.006 inch has been considered to be the line of distinction between metal coil and foil. However, 5 facilities have been identified that process coiled metal with a thickness both above and below 0.006 inch. Three of these facilities process 5 percent foil on each line, the fourth facility processes less than 25 percent foil on one of 6 coating lines in the facility, and the fifth facility processes 86 percent foil on one of 9 coating lines in the facility. The processing of foil is considered to be part of the paper and other web surface coating source category. Thus, there is some overlap between coil coating processes and foil coating processes within individual coil coating facilities. Unless a facility reported 100% of its substrate(s) as being below 0.006 inch, the facility was considered to be part of the metal coil surface coating source category.

3.2 INDUSTRY PROFILE

A total of 110 companies performing metal coil surface coating operations were identified through literature sources and stakeholder contacts. Information collection requests (ICRs) were sent to each of these companies in the summer of 1998. The intent of the survey was to acquire data on HAP use and emission control in metal coil surface coating operations and associated ancillary activities such as storage of HAP-containing materials in tanks, wet section operations, equipment cleaning, and wastewater treatment.

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Figure 3-1. Typical Tandem Coil Coating Line

Responses were received from 119 facilities, of which 26 indicated that the facilities are not coll coaters, 2 provided information showing that the facility only coats foil, and two were not in operation in 1997. Therefore, 89 coll coating facilities returned completed questionnaires; 14 companies did not respond to the questionnaire.

The information collected from the metal coil surface coating industry was entered into a database. The metal coil surface coating MACT database (MACT database) contains a total of 82 facilities, excluding 7 facilities that classified the entire ICR response confidential business information (CBI). The MACT database facilities had a total of 125 coating lines reported. Appendix B of this document contains information on plant location, number of lines, type of control device used, and annual HAP emissions.

Major markets for coil coated metal include the transportation industry, building products industry, large appliance industry, can industry, and packaging industry. Other end products include coated tape rules, ventilation systems for walls and roofs, lighting fixtures, office filing cabinets, cookware, and sign stock. The industry has maintained a positive growth rate for a number of years as new end uses for precoated metal have continued to emerge.

Although coil coated metal is used in a wide variety of products, metal coil surface coating is typically not a product specific operation but rather is a distinct process. Many of the other surface coating source categories being regulated under section 112 of the Act are product specific, such as the metal can and large appliances source categories. For the purposes of standard development, the EPA considers any coil coating process, regardless of the end product, as part of the metal coil source category. Product-specific source categories include surface coating operations that are not coil coating processes.

Types of metal processed by the coil coating industry are mainly aluminum, cold rolled steel, cold rolled steel (galvanized on-line), hot-dipped galvanized steel, and galvalum/zincalum. Small quantities of other metals including brass are also coated. Coil coated metal is fabricated into end products after it is coated, thus eliminating the need for post-assembly painting. Toll and captive coaters represent the two basic industry divisions. Toll coaters produce metal that is coated in accordance with specifications of their customers. Captive coaters both coat the metal and fabricate it into end products within the same company. Examples of captive coaters are can manufacturing lines for metal used in the can manufacturing

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process, and housing products manufacturers who coat the material for their products using company owned and operated coil coating lines. Some plants perform both toll and captive operations. Data from the MACT database indicate that approximately 40% of the facilities reported being toll coaters, 38% reported being captive coaters, and 22% reported performing both toll and captive coating.

3.3 COATINGS

The types of coatings applied in coil coating operations include a wide variety of formulations. Among the more prevalent types are polyesters, acrylics, fluorocarbons, alkyds, vinyls, epoxies, plastisols, and organosols. Table 3-1 lists the coatings commonly used in the industry and gives the approximate range of organic solvent content of each. In addition to these traditional coatings, adhesives, bondable backers, strippable protective coatings, lacquers, tefions, liquid rubber, graphite, kynar, latex, extruded synthetic rubber-based solid resins, and other nontraditional coatings are also used by the industry⁵. The majority of the coatings, estimated at about 85 percent ⁶, are organic solvent based and have solvent contents ranging up to 80 percent by volume with most being in the range from 30 to 70 percent. The remaining 15 percent of coatings are mostly of the waterborne type which also contain some organic solvents ranging from about 2 to 15 percent by volume 7. While waterborne coatings are in use at a number of coil coating facilities, they are not available in formulations that are suitable for all end product applications. The choice of waterborne versus solvent borne coatings usually depends on the end use of the coated metal and the type of metal used. The most prevalent use of waterborne coatings is on aluminum used for siding in the construction industry. Other uses include printing plates, suspended ceiling systems, and body and endstock for food cans.

High-selids coatings in the form of plastisols, organosols, and powder are also used to some extent by the coil coating industry. Because these coatings have a lower organic solvent content, potential organic emissions are lower than from the other, more commonly used coatings. However, these coatings also have limited applicability and are not available in formulations suitable for use on all end products. Typical uses for these coatings are residential siding, drapery hardware, and other products.

Little data have been identified that represent the HAP content of coatings used in the

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metal coil surface coating industry. Information provided by one of the coating suppliers ⁸ for three typical coatings showed HAP contents ranging from about 5 to 28 percent by weight. Reported data from the MACT database indicate that HAP contents for all coatings used in the coil coating industry range from 0 to 95 percent by weight, with an average reported value of approximately 16 percent.

	Volztile Content
. Coatings	(Weight %)
Acrylics	40-45
Adhesives	70-80
AIkyds	50-70
Epoxies	45-70
Fluorocarbons	55-60
Organosols	15-45
Phenolics	50-75
Plastisols	5-30
Polyesters	45-50
Silicone Acrylics & Polyesters	35-60
Urethanes	6075
Inks	50-65
Solution Vinyls	75-85
Vinyls	60-75

Table 3-1. Typical Coatings Used in Metal Coil Surface Coating

Source: Reference 4.

3.4 PROCESS DESCRIPTIONS, CURRENT INDUSTRY PRACTICES, AND EMISSION SOURCES

Although specific steps in a coil coating operation differ between plants, most have a common series of steps that include storage and handling of raw materials and a coating line that includes a wet section and one or more coating operations consisting of a coating application station, a curing oven, and a quench area. Most plants also generate wastewater and have some

type of wastewater treatment system. The following paragraphs provide brief descriptions of the common operations found on coil coating lines and provides general information regarding potential HAP emissions.

3.4.1 Storage and Handling of Coatings and Other Materials

Many of the coatings, solvents, and wet section chemicals are delivered and stored in 55 gallon drams but may also be delivered and stored in totes, which are transportable containers with a capacity generally in the range of from 200 to 500 gallons. Some plants also receive raw materials in bulk by tank trucks or rail cars and store the materials in bulk storage tanks. These tanks may be located inside a building or may be outdoors either above ground or underground. For raw materials delivered and stored in drams or totes, no emissions should occur during normal storage provided that they typically are kept sealed and generally do not leak. Emissions would only occur when the drams or totes are opened.

Where coatings are delivered by tank truck or rail car, working loss emissions occur when the coatings are pumped from the delivery vehicle to bulk storage tanks. Some tanks are vented to the tank trucks while they are being filled, thus making working losses negligible. During storage, daily temperature fluctuations generate breathing loss emissions. Breathing losses would be expected to be low for tanks that are underground or enclosed in controlled temperature environments relative to tanks that are outdoors, above ground and exposed to diurnal temperature cycles. Based on data from the MACT database, emissions from storage tanks account for approximately 2% of nationwide HAP emissions from metal coil surface coating operations.

Before application of the coatings to the coil, the coatings are typically stirred. They may also be thinned with solvent to adjust the viscosity. In some cases, coatings are mixed together. One example is mixing to achieve a particular color. Another example is the blending of excess coatings together to use as a backer. Another coating modification operation, intermixing, involves adding ingredients to perform coating color tinting (with no pigment dispersion). Data from ICR responses indicate that emissions from mixing and thinning account for approximately 3.5% of nationwide HAP emissions from metal coil surface coating operations.

3.4.2 Wet Section Pretreatment

The wet section of a metal coil surface coating line includes cleaning steps that may use

water, canstic cleaners, brushing, or acid treatment. Processes may include spray applications of materials or may include submersion of the metal strip. Specific processes included in the wet section depend on the type of metal substrate, characteristics of the coatings to be applied, and other parameters. The chemical treatments used in the wet section may contain HAP. Data from ICR responses indicate that HAP emissions from wet section operations account for approximately 0.29% of nationwide HAP emissions from metal coil surface coating operations.

3.4.3 Coating Application Stations

At the coating application stations, coatings are applied by rollers to one or both surfaces of the metal strip as it passes through the station. Emissions of HAP occur when HAP-containing solvents contained in the applied coatings evaporate. It is estimated that between 0 and 15 percent of the coating solvent evaporates at the coating station ⁹. Data from the MACT database indicate an average of approximately 9.1 percent of coating solvent evaporation taking place at the coating station. If HAP-containing cleaning solvents are used, emissions of HAP also occur during cleaning of the paint rollers and other parts of the application station between coating sessions or when a color change is made. Cleaning may be carried out in place using solvent and rags, or portions of the coaters may be removed for cleaning. Data for HAP emissions from parts and equipment cleaning were available for 40 percent of the facilities that returned ICR responses. For these facilities, parts and equipment cleaning HAP emissions account for approximately 4 percent of nationwide HAP emissions from metal coil surface coating operations.

At many plants, the coating application stations are enclosed in rooms. Because air is drawn into the ovens from these rooms, it is generally believed that a large fraction, and in some cases all, of the solvent that evaporates in this area is captured by the ovens. Hoods or "snouts" may be used to increase the fraction of solvent emissions captured by the ovens. Plants may also use smaller coating station enclosures, which require less ventilation air, and are not occupied by workers except when the enclosure is opened for maintenance or inspection. On lines that do not have coating rooms or smaller enclosures, an exhaust hood is frequently installed directly over the roll coaters to exhaust the solvent that evaporates in that area. In these cases, the hoods may be exhausted to the ovens, a control device, or to the atmosphere. Some plants do not use hoods or enclosures around the coating application stations; therefore, the majority of the solvent evaporated at the coating station would be emitted to the atmosphere. Data from the MACT

database indicate that permanent total enclosures, partial enclosures, hoods, floor sweeps, extra ventilation to control devices, walls around coating stations, and oven extensions are used throughout the metal coil coating industry as enclosure and capture methods.

3.4.4 Curing Ovens

After coatings are applied to the surface of the metal strip, the strip enters an oven where heat is applied to evaporate the organic solvent and water contained in the applied coatings. An estimated 85 to 100 percent of the organic solvent content of applied coatings evaporate inside the curing ovens ¹⁰. Data from the MACT database indicate an average of approximately 90 percent of the organic solvent content of applied coatings evaporating inside the curing ovens. Most curing ovens used in coil coating operations are direct fired and use natural gas as fuel. Many ovens are designed to use propane as a backup fuel in case of natural gas curtailments. Ovens heated by fuel oil or electricity are used in some plants, but to a much lesser extent than those heated by natural gas. The heat input to the ovens must be sufficient to evaporate the solvent in the coatings, to bring the metal and coatings up to the design temperature, usually in the range of 375 to 600 °F, to replace the heat lost from the ovens by radiation and conduction, and to heat dilution air to oven operating temperature. Oven ventilating air (or dilution air) is normally the largest single factor in the total oven heat load. Data from the MACT database indicate an average oven exhaust gas temperature of approximately 560 degrees Fahrenheit.

Solvent borne coatings, if uncontrolled, would result in higher organic emissions from the oven than either waterborne coatings or high solids coatings. Emissions of HAP compared to organic emissions depend on the proportion of HAP as compared with non-HAP solvents in the coatings.

3.4.5 Quench Area

When the metal strip exits the curing oven, it is cooled, usually by a water spray, an air spray, or a combination of the two before being repackaged as a coil or passing to another coating station. An estimated 0 to 2 percent of the organic solvent in the applied coatings is released in the quench area ¹¹. Data from ICR responses indicate an average of approximately 0.6 percent of the organic solvent in the applied coatings is released in the quench area. The quench area is normally an enclosed area adjacent to the exit from the curing oven and a large fraction of the emissions released in this area are estimated to be captured by the oven ventilation system.

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However, at some plants, the quench area is vented directly to the atmosphere.

3.4.6 Wastewater Handling and Treatment

Most plants generate wastewater from wet section operations, quenching operations, or both. Based on data from ICR responses, organic solvents are not typically used in the wet section. Consequently, not much organic solvent gets into plant wastewater. Response data from the ICRs indicate that wastewater handling and treatment operations account for approximately 0.07 percent of nationwide HAP emissions from metal coil coating operations. Coil coating wastewater may contain chromium compounds, but the potential for air emissions of these compounds is small. Wastewater may also be generated by clean up activities at plants that use waterborne coatings.

3.4.7 Baseline Emissions

Information collection requests were sent to 110 companies performing metal coil coating operations that were identified through literature sources and stakeholder contacts. Responses were received from 119 facilities. Twenty-six of those facilities indicated that they are not coil coaters, 2 provided data showing that the facility coats foil only, and two facilities were not in operation in 1997. Therefore, 89 coil coating facilities returned completed ICRs; 14 companies did not respond to the questionnaire. The surveyed facilities were asked to provide facility HAP emissions from metal coil surface coating operations as well as HAP emissions from specific unit operations associated with metal coil surface coating. Total nationwide HAP emissions from metal coil surface coating operations to be 2484 tons in 1997 by summing facility HAP emissions reported by these facilities.

3.5 REFERENCES

- U.S. Environmental Protection Agency. Metal Coil Surface Coatings MACT Docket Number A-97-47 Item Numbers II-D-1 through II-D-113. ICR Responses. Office of Air Quality Planning and Standards. Research Triangle Park, NC. Responses received September 1998-April 1999.
- U.S. Environmental Protection Agency. Metal Coil Surface Coating Industry-Background Information for Proposed Standards. Office of Air Quality Planning and Standards. Research Triangle Park, NC. EPA-450/3-80-035a. October 1980.
- 3. Reference 1.

- 4. Reference 2, p. 3-4 updated with information from Reference 1.
- 5. Reference 1.
- 6. Reference 2, p. 3-2.
- 7. Reference 2, p. 3-2 and 3-5.
- 8. Letter from Jelf, III, William E., Akzo Nobel Coatings, Inc. to Lacy, Gail, US EPA. September 12, 1997. Data sets for three (3) typical coil coatings.

10. Reference 9.

11. Reference 9.

^{9.} Reference 2, p. 3-7.