

Code

Permit 91-POY-126—Condition I.II.5.

Alteration of permit EOP-10-KJC-83-32-081 dated 2/20/90 Condition I.B.13.

Sparta—Daily Recordkeeping Requirements

Sections NR 439.04(5)(e) and (g) and NR 439.04(3), Wis. Adm. Code

Permit 92-POY-157—Conditions

I.I.A.2.b., I.I.A.2.f., I.I.A.2.g.,

I.I.C.2.b., I.I.C.2.f., and I.I.C.2.g.

Permit 91-POY-088—Conditions

I.I.A.2.b., I.I.A.2.d., and I.I.A.2.e.

Permit 93-IRS-040—Condition I.I.F.2.b.

New Requirement: To demonstrate compliance status with the facility wide emission limitations for volatile organic compounds and hazardous air pollutants, NEC would be required to keep monthly records of emissions from each facility and report actual emission every 6 months as follows:

(1) Each month the permittee shall calculate the total volatile organic compound emissions from the facility as follows:

$$E = (1 \text{ ton}/2000 \text{ lbs}) \times \{[(U_1 \times W_1 \times C_1) + (U_2 \times W_2 \times C_2) + \dots + (U_n \times W_n \times C_n)] - [(S_1 \times P_1) + (S_2 \times P_2) + \dots + (S_m \times P_m)]\}$$

where:

E is the monthly VOC emissions (tons/month);

U is the monthly usage of each ink, coating, solvent, or other VOC containing material used during the month (gallons/month);

W is the density of each ink, coating, solvent, or other VOC containing material used during the month (pounds/gallon)

C is the VOC content of each ink, coating, solvent, or other VOC containing material used during the month expressed as a weight fraction (*i.e.* if a material is 25% VOC by weight C would be 0.25);

n identifies each ink, coating, solvent or other VOC containing material used during the month;

S is the amount of each spent ink, coating, solvent or other VOC containing material recovered and shipped off site each month (gallons/month);

P is the VOC content of each spent ink, coating, solvent or other VOC containing material recovered and shipped off site each month in pounds per gallon;

m identifies each spent ink, coating, solvent or other VOC containing material recovered and shipped off site during the month. (s. NR 407.09(4)(a)1., Wis. Adm. Code)

(2) To demonstrate compliance with condition I.A.1.a.(1), the permittee shall

calculate the total volatile organic compound emissions from the facility over each 12 consecutive month period by summing the monthly volatile organic compound emissions as calculated in I.A.1.b.(1) for each consecutive 12-month period. This calculation shall be performed within 20 calendar days of the end of each month for the previous 12 consecutive month period. (s. NR 407.09(4)(a)1., Wis. Adm. Code)

(3) The permittee shall use U.S. EPA Method 24, or coating manufacturer's formulation data to determine the VOC content (Cn) and the density (Wn) of the inks, coatings, solvents or other VOC containing materials used. In case of an inconsistency between the Method 24 results and the formulation data, the Method 24 results will govern. (s. NR 439.04(1)(d), Wis. Adm. Code)

(4) The permittee shall analyze the spent ink, coating, solvent and other VOC containing material recovered and shipped off site to determine the VOC content (P) no less than: (a) each time there is a substantial change to materials or process operations that may affect the characteristics of the waste stream; or (b) quarterly, which ever is most frequent. (s. NR 439.04(1)(d), Wis. Adm. Code)

(5) The permittee shall keep records of the following for each ink, coating, solvent, or other VOC containing material used at the facility:

(a) A unique name or identification number; and

(b) The VOC content, expressed as a weight fraction (Cn). (s. NR 439.04(1)(d), Wis. Adm. Code)

(6) The permittee shall keep monthly records of:

(a) The amount of each ink, coating, solvent, or other VOC containing material used in gallons per month (Un);

(b) The density of each ink, coating, solvent, or other VOC containing material used in pounds per gallon (Wn);

(c) The amount of spent ink, coating, solvent, or other VOC containing material recovered and shipped off site in gallons per month (Sm);

(d) The VOC content of each spent ink, coating, solvent or other VOC containing material recovered and shipped off site in pounds per gallon (Pm).

(e) The total monthly VOC emissions from the facility in tons per month (E), as calculated in I.A.1.b.(1); and

(f) The total VOC emissions from the facility in tons per year as calculated in I.A.1.b.(2). (s. NR 439.04(1)(d), Wis. Adm. Code)

(7) Each month the permittee shall calculate the total emissions of *each*

hazardous air pollutant from the facility regulated by the Act as follows:⁵

$$E_x = (1 \text{ ton}/2000 \text{ lbs}) \times \{[(U_1 \times W_1 \times H_1) + (U_2 \times W_2 \times H_2) + \dots + (U_n \times W_n \times H_n)] - [(S_1 \times I_1) + (S_2 \times I_2) + \dots + (S_m \times I_m)]\}$$

where:

E_x is the monthly emissions of each hazardous air pollutant regulated by the Act (tons/month);

x identifies each HAP emitted from the facility

U is the monthly usage of each ink, coating, solvent, or other HAP containing material used during the month (gallons/month);

W is the density of each ink, coating, solvent, or other HAP containing material used during the month (pounds/gallon)

H is the HAP content of each ink, coating, solvent, or other HAP containing material used during the month expressed as a weight fraction (*i.e.* if a material is 25% HAP by weight H would be 0.25);

n identifies each ink, coating, solvent or other HAP containing material used during the month;

S is the amount of each spent ink, coating, solvent or other HAP containing material recovered and shipped off site each month (gallons/month);

I is the HAP content of each spent ink, coating, solvent or other HAP containing material recovered and shipped off site each month in pounds per gallon;

m identifies each spent ink, coating, solvent or other HAP containing material recovered and shipped off site during the month. (s. NR 407.09(4)(a)1., Wis. Adm. Code)

(8) To demonstrate compliance with condition I.A.2.a.(1), the permittee shall calculate the emissions of each hazardous air pollutant regulated by the Act over each 12 consecutive month period by summing the monthly emissions of each hazardous air pollutant regulated by the Clean Air Act (the Act) as calculated in I.A.2.b.(1) for each consecutive 12-month period. This calculation shall be performed within 20 calendar days of the end of each month for the previous 12 consecutive month period. (s. NR 407.09(4)(a)1., Wis. Adm. Code)

(9) Each month the permittee shall calculate the *total* emissions of hazardous air pollutants regulated by the Act as follows:

$$E_{\text{hap}} = E_x$$

where:

⁵ This calculation shall be performed for each hazardous air pollutant regulated by the Act that is emitted from the facility.