

§ 63.5880 How do I determine how much neat resin plus is applied to the line and how much neat gel coat plus is applied to the line for continuous lamination/casting operations?

Use the following procedures to determine how much neat resin plus and neat gel coat plus is applied to the line each year.

- (a) Track formula usage by end product/thickness combinations.
- (b) Use in-house records to show usage. This may be either from automated systems or manual records.
- (c) Record daily the usage of each formula/end product combination on each line. This is to be recorded at the end of each run (*i.e.*, when a changeover

in formula or product is made) and at the end of each shift.

- (d) Sum the amounts from the daily records to calculate annual usage of each formula/end product combination by line.

§ 63.5885 How do I calculate percent reduction to demonstrate compliance for Continuous Lamination/Casting Operations?

You may calculate percent reduction using any of the methods in paragraphs (a) through (d) of this section.

- (a) *Compliant line option.* If all of your wet-out areas have PTE that meet the requirements of EPA Method 204 of appendix M of 40 CFR part 51, and all

of your wet-out area organic HAP emissions and oven organic HAP emissions are vented to an add-on control device, use Equation 1 of this section to demonstrate compliance. In all other situations, use Equation 2 of this section to demonstrate compliance.

$$PR = \frac{(\text{Inlet}) - (\text{Outlet})}{(\text{Inlet})} \times 100 \quad (\text{Eq. 1})$$

Where:

PR=percent reduction
Inlet=HAP emissions entering the control device, lbs per year
Outlet=HAP emissions exiting the control device to the atmosphere, lbs per year

$$PR = \frac{(\text{WAE}_u + \text{O}_u) - (\text{WAE}_c + \text{O}_c)}{(\text{WAE}_u + \text{O}_u)} \times 100 \quad (\text{Eq. 2})$$

Where:

PR=percent reduction

WAE_u=uncontrolled wet-out area organic HAP emissions, lbs per year

O_u=uncontrolled oven organic HAP emissions, lbs per year

WAE_c=controlled wet-out area organic HAP emissions, lbs per year

O_c=controlled oven organic HAP emissions, lbs per year

- (b) *Averaging option.* Use Equation 3 of this section to calculate percent reduction.

$$PR = \frac{\left(\sum_{i=1}^m \text{WAE}_{ui} + \sum_{j=1}^n \text{O}_{uj} \right) - \left(\sum_{i=1}^o \text{WAE}_{ci} + \sum_{j=1}^p \text{O}_{cj} \right)}{\left(\sum_{i=1}^m \text{WAE}_{ui} + \sum_{j=1}^n \text{O}_{uj} \right)} \times 100 \quad (\text{Eq. 3})$$

Where:

PR=percent reduction

WAE_{ui}=uncontrolled organic HAP emissions from wet-out area i, lbs per year

O_{uj}=uncontrolled organic HAP emissions from oven j, lbs per year

WAE_{ci}=controlled organic HAP emissions from wet-out area i, lbs per year

O_{cj}=controlled organic HAP emissions from oven j, lbs per year

i=number of wet-out areas

j=number of ovens

m=number of wet-out areas

uncontrolled

n=number of ovens uncontrolled

o=number of wet-out areas controlled

p=number of ovens controlled

- (c) *Add-on control device option.* Use Equation 1 of this section to calculate percent reduction.

- (d) *Combination option.* Use Equations 1 through 3 of this section, as applicable, to calculate percent reduction.

§ 63.5890 How do I calculate a organic HAP emissions factor to demonstrate compliance for continuous lamination/casting operations?

- (a) *Compliant line option.* Use Equation 1 of this section to calculate a organic HAP emissions factor in lbs/ton.

$$E = \frac{\text{WAE}_u + \text{WAE}_c + \text{O}_u + \text{O}_c}{(\text{R} + \text{G})} \quad (\text{Eq. 1})$$

Where:

E=HAP emissions factor in lbs/ton of resin and gel coat

WAE_u=uncontrolled wet-out area organic HAP emissions, lbs per year

WAE_c=controlled wet-out area organic HAP emissions, lbs per year

O_u=uncontrolled oven organic HAP emissions, lbs per year

O_c=controlled oven organic HAP emissions, lbs per year

R=total usage of neat resin plus, tpy

G=total usage of neat gel coat plus, tpy

- (b) *Averaging option.* Use Equation 2 of this section to demonstrate compliance.