§ 63.5875 How do I determine the capture efficiency of the enclosure on my wet-out area and the capture efficiency of my oven(s) for continuous lamination/casting operations?

(a) The capture efficiency of a wet-out area enclosure is assumed to be 100 percent if it meets the design and operation requirements for a permanent total enclosure (PTE) specified in EPA Method 204 of appendix M to 40 CFR part 51. If a PTE does not exist, then a temporary total enclosure must be constructed and verified using EPA Methods 204B through E of appendix M to 40 CFR part 51.

(b) The capture efficiency of an oven is to be considered 100 percent, provided the oven is operated under negative pressure.

§ 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
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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;
\(\text{Inlet}\) = HAP emissions entering the control device, lbs per year;
\(\text{Outlet}\) = HAP emissions existing the control device to the atmosphere, lbs per year.

\[
PR = \frac{(\text{WAE}_{ci} + \text{Oj}_{ci}) - (\text{WAE}_{co} + \text{Oj}_{co})}{(\text{WAE}_{ci} + \text{WAE}_{u} + \text{Oj}_{ci} + \text{Oj}_{u})} \times 100 \quad (\text{Eq. 2})
\]

Where:

\(PR\) = percent reduction;
\(\text{WAE}_{ci}\) = wet-out area organic HAP emissions, lbs per year, vented to a control device;
\(\text{WAE}_{u}\) = wet-out area organic HAP emissions, lbs per year, not vented to a control device;
\(\text{Oj}_{u}\) = oven organic HAP emissions, lbs per year, not vented to a control device;
\(\text{Oj}_{ci}\) = oven organic HAP emissions, lbs per year, vented to a control device.

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

\[
PR = \frac{\left(\sum_{i=1}^{m} \text{WAE}_{ci} + \sum_{j=1}^{n} \text{Oj}_{ci}\right) - \left(\sum_{i=1}^{m} \text{WAE}_{co} + \sum_{j=1}^{n} \text{Oj}_{co}\right)}{\left(\sum_{i=1}^{m} \text{WAE}_{ci} + \sum_{j=1}^{n} \text{Oj}_{ci} + \sum_{i=1}^{m} \text{WAE}_{u} + \sum_{j=1}^{n} \text{Oj}_{u}\right)} \times 100 \quad (\text{Eq. 3})
\]

Where:

\(PR\) = percent reduction;
\(\text{WAE}_{ci}\) = wet-out area organic HAP emissions from wet-out area i, lbs per year, sent to a control device;
\(\text{WAE}_{u}\) = wet-out area organic HAP emissions from wet-out area i, lbs per year, not sent to a control device;
\(\text{WAE}_{co}\) = wet-out area organic HAP emissions from wet-out area i, lbs per year, at the outlet of a control device;
\(\text{Oj}_{ci}\) = organic HAP emissions from oven j, lbs per year, sent to a control device;
\(\text{Oj}_{co}\) = organic HAP emissions from oven j, lbs per year, not sent to a control device;
\(\text{Oj}_{u}\) = organic HAP emissions from oven j, lbs per year, sent to a control device;