

Notice

This Engineering Guide was recently converted to a PC format and it has not been proof read by our engineering staff. Therefore, it is subject to change at a later date.

Ohio EPA

Office of Air Pollution Control

Division of Engineering

Engineering Guide #20

Question:

How should compliance with the 20% and 60% opacity limitations in paragraphs (A) and (B) of rule 3745-17-07 be determined? (This question was submitted by Greg Hemker of RAPCA on October 17, 1980).

Answer:

As specified in paragraph (B)(1) of rule 3745-17-03, USEPA Method 9 is used to determine compliance with the visible emission limitations contained within paragraphs (A) and (B) of rule 3745-17-07. Section 2.5 of Method 9 requires the 15-second visible emissions readings to be averaged over nonoverlapping periods of six consecutive minutes (i.e., 24 consecutive, 15-second readings should be averaged).

Paragraph (A) limits the average opacity of any 6-minute period to less than or equal to 20%; however, during any 60-minute period, one of the ten 6-minute, nonoverlapping periods is allowed to have an average opacity greater than 20% and less than or equal to 60%. If there is more than one 6-minute, nonoverlapping period during any 60-minute period which has an average opacity between 20% and 60%, that would constitute a violation of both paragraphs (A) and (B).

If any 6-minute period has an average opacity greater than 60%, that also would be a violation of paragraphs (A) and (B).

Finally, compliance determinations must exclude any 6-minute periods during which the operations described in paragraph (D) are occurring.

(The above response is summarized schematically on the following page.)

January 6, 1981

Examples of Compliance with Paragraphs (A) & (B)
of Rule 3745-17-07 During Any 60-Minute Period*

≤ 20%
"
"
"
"
"
"
"
"
"
"

≤ 20%
"
"
"
> 20%
≤ 60%
≤ 20%
"
"
"
"

Examples of Noncompliance with Paragraphs (A) & (B)
of Rule 3745-17-07 During Any 60-Minute Period*

≤ 20%	≤ 20%	≤ 20%
"	"	"
"	"	"
"	"	"
> 20%	> 60%	> 20%
≤ 60%		≤ 60%
"	≤ 20%	> 60%
≤ 20%	"	≤ 20%
"	"	"
"	"	"
"	"	"

*Each small block represents a nonoverlapping period of six consecutive minutes. Each column of ten small blocks represents any 60-minute period. It is assumed

there are no "exempted" operations occurring during any 6-minute period.