

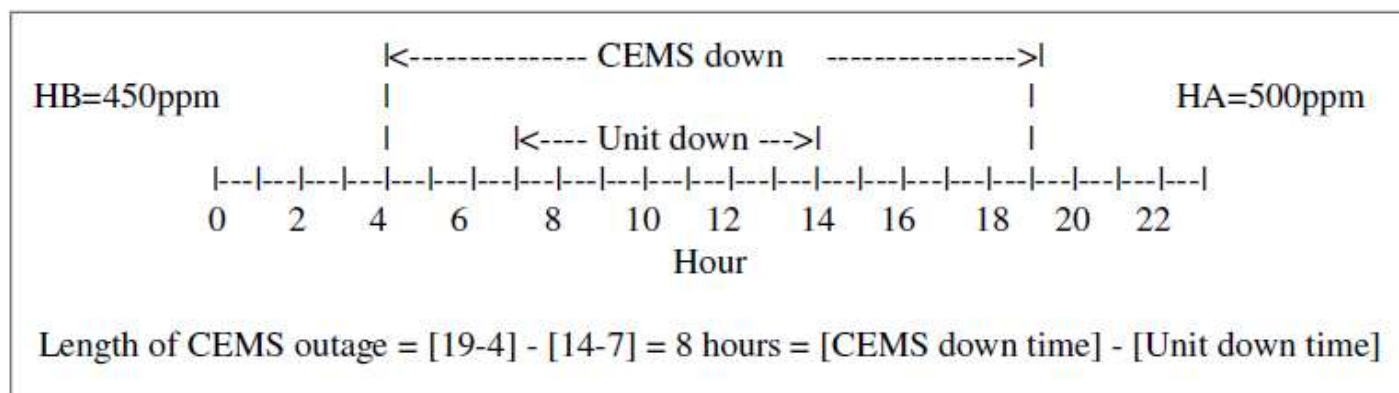
## Question 14.4

**Topic:** Missing Data -- Unit Down Time

**Question:** How should the missing data algorithm handle the situation of a unit going off-line during a missing data period?

**Answer:** Do not include the hours when the unit is not operating as part of CEMS downtime or percent monitor data availability (PMA). Consider the following example, diagrammed below:

During a 24-hour period, the CEMS is down from hour 4 until hour 19. Meanwhile, the unit is down from hour 7 until hour 14. The SO<sub>2</sub> concentration for the hour before (HB) the missing data period is 450 ppm, and the hour after (HA) value is 500 ppm.



Assume that the PMA of the SO<sub>2</sub> monitor is  $\geq 95\%$ . As illustrated above, the missing data period is 8 hours, when the unit downtime is excluded. Therefore, according to § 75.33(b)(1)(i), the appropriate substitute data value to fill in gaps from hours 4 to 7 and hours 14 to 19 is the average of the hour before and hour after values, i.e.,  $(HB + HA)/2 = (450 + 500)/2 = 475$  ppm.

**References:** § 72.2, § 75.33(b), Table 1 in § 75.33

**History:** First published in November 1993, Update #2; revised in 2013 Manual