

Quality

From: Falak Sher <falaksherali99@gmail.com>
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To: Quality
Subject: Correction in of Technical Assistance Document (EPA-454/B-24-002)

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Dear EPA Air Quality Reporting Team,

I am writing to bring to your attention what appears to be a calculation error on page 15 of the recently published document "*Technical Assistance Document for the Reporting of Daily Air Quality – the Air Quality Index (AQI)*" (EPA-454/B-24-002, May 2024).

In the example provided under "*Using the table and the equation and concentration data to calculate the AQI*," the document states:

"Suppose you have an 8-hour O₃ value of 0.07853333. First, truncate the value to 0.078. ... Now you have all the numbers needed to use equation 1.*

$(150 - 101) / (0.085 - 0.071) * (0.78 - 0.071) + 101 = 49 / 0.14 * (0.007) + 101 = 125.5 = 126$ "

It appears there is a typographical error in the third term of the equation: **(0.78 – 0.071)** should instead be **(0.078 – 0.071)**. Using the correct truncated concentration of 0.078, the calculation should be:

$*(49 / 0.014) * (0.007) + 101 = 3500 * 0.007 + 101 = 24.5 + 101 = 125.5 = 126^*$

While the final result (126) remains correct, the intermediate expression as written may confuse readers attempting to follow the methodology.

I kindly request that this observation be reviewed for correction in any future revision or errata notice. As this finding contributes to the accuracy of an official EPA document, I would greatly appreciate an acknowledgement of my submission for my professional records. Such acknowledgment would serve as valuable evidence of my attention to detail and initiative in contributing to public-facing technical resources.

Thank you for your continued dedication to clear and accurate air quality communication.

Respectfully,

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