

From: Will Ollison
Sent: Thursday, April 17, 2014 4:56 PM
To: Hanlon, Edward
Subject: RE: Posting of 'further' revised CASAC-AMMS comments on the proposed O3 FRM

Below is another informational comment in response to one of your recently posted AMMS member's revised preliminary comments below:

It is my understanding that once a method or instrument is designated as an FRM or FEM, it (so far) has never removed from the method list. EPA's current list of designated reference and equivalent monitoring methods is at:

<http://www.epa.gov/ttnamti1/files/ambient/criteria/reference-equivalent-methods-list.pdf>. It is interesting to note that even though the Fluorescence SO2 method is now an FRM (as of April 2012), none of the existing FEM Fluorescence SO2 Analyzers have been designated as FRM monitors.

As I recall, after its development in 1958 the colorimetric Jacobs-Hochheiser NO2 bubbler methodology came into wide use within the U.S. National Air Surveillance Network of the mid-1960s and was designated as a FRM in 1971 (36 FR 8186-8201, April 30, 1971). However, because of its subsequently discovered concentration-dependent NO2 collection efficiency, this designation was rescinded in 1973 (38 FR 15178-15180, June 8, 1973).

See Purdue et al. 1972. Reinvestigation of the Jacobs-Hochheiser procedure for determining nitrogen dioxide in ambient air. ES&T 6(2): 152-154.

All the best...