From: Katie Hill Brandt
To: Cordes, Richard M (MPCA)
Cc: Troy A. Bech (troy.bech@sanimax.com); tpotas@sehinc.com; Sheffer, Melissa (MPCA)
Subject: Re: Emission factors
Date: Wednesday, June 12, 2013 5:13:04 PM
Attachments: Sanimax PTE Calculations_2013.06.12.xlsx
Sanimax PM10-PM2.5 Model Inputs.xlsx

Dick,

Here are the revised calculations to remove antimony and account for condensable PM, PM10, & PM2.5 from fuel oil #2 and RAFVO combustion. For our discussion tomorrow, I have also attached a table comparing PM10 & PM2.5 modeling inputs for Sanimax for its current permit, our application as submitted on May 7, and now with the requested changes.

Thanks,

Katie Hill Brandt, PE | Environmental Engineer
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From: "Cordes, Richard M (MPCA)" <richard.cordes@state.mn.us>
To: "Katie Hill Brandt (SEH)" <khillbrandt@sehinc.com>,
Cc: "Troy A. Bech (troy.bech@sanimax.com)" <troy.bech@sanimax.com>
Date: 06/11/2013 08:26 AM
Subject: Emission factors

Katie –

I'm reviewing the emission calculations from the permit application, initially focusing on the "Combustion (Proposed)" tab. After reviewing the information for Boiler No. 1, I have the following comments:

- I was unable to identify the reference for emissions of antimony from natural gas.
- The emission factors for PM10 and PM2.5 for the combustion of #2 fuel oil (and also from combustion of RAFVO) appear to omit condensable particulate.

Please address these comment for me. Thanks.

Richard Cordes, P.E.
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