

From: John Yntema
To: Towles, Phillip
Date: 3/25/2005 2:42:45 PM
Subject: Re: Langboard - SNCR

Phillip,

I have learned more about the Langboard situation:

1. Their permit does not have any direct requirements for an SNCR, although SNCR is listed as the control in the emission unit table.
2. They are required to monitor NOx emissions and collect data in pounds per hour. They are limited, in the permit, to a 30-day rolling average of 57 lb/hour to avoid PSD.
3. According to plant personnel, the SNCR is operational and is tied into the NOx CEMS. They set the output of NOx at 50 lb/hour and the amount of ammonia sprayed in varies with the feedback from the CEMS.
4. They don't know what their control efficiency is, nor what the ammonia slip is. However, they use about 275 gallons of 19% ammonia per day.
5. They did admit that ammonia kills resin, so too much ammonia in the system would compromise board making. However, they say that they have never had that problem.

- John

PS: I also learned that there are 2 Georgia-Pacific OSB plants that use SNCR, Mount Hope OSB, West Virginia and Brookneal OSB, Virginia. I presume that they are PSD-avoidance, but I do not know for sure. They are said to use 30% urea solution and have a guaranteed reduction of 60%, but the plant only needs a 30% reduction.

This interested me, so I looked and found a permit for the Brookneal plant on the web. It had a plant contact, their environmental coordinator (Michael Robertson), whom I called. Their plant is a little different, so it seems not applicable to use in your BACT determination. The plant uses a 240 MMBtu/hour Wellons. The exhaust gases do not contact the dryer air, the heat is transferred using an air-to-air heat exchanger. (3 dryers - total 84 tons per hour). Their SNCR is Nalco NOxOut. Also, the exhaust air from the dryers is used as input into the Wellons. Their NOx is limited to 0.2 lb/MMBtu (as NO2), 3 hour average [annual 203.7 tpy]. The press is limited to 18.5 tpy NOx.

He said this was a joint effort of Ga Pacific and Wellons and thought it worked quite well; was not sure why no-one else had done this. Mr. Robertson said that the Mount Hope plant is the same, using an air-to-air heat exchanger. A

- John

>>> "Towles, Phillip (Norbord)" <phillip.towles@joanna.norbord.com> 03/24/05 9:29 AM >>>
Susan and John:

I did some checking on Langboard and a source who would like to remain anonymous because of his ties with that company said he thought Langboard was meeting its NOx limits without the SNCR and didn't even have it installed. This person has not been to the site in a while so you all would have more up to date information I'm sure. Anyway, he seemed certain they didn't have an SNCR installed though I think it is at least an option in their permit (don't have a copy so not sure what it requires).

Phil

CC: Jenkins, Susan