

**From:** Peter Courtney  
**To:** Brian Tracey  
**Date:** 6/1/2010 12:56 PM  
**Subject:** RE: Yellow Pine Energy Company, SIP Application 19518 - airdispersion modeling information  
**Attachments:** ModeledSources.pdf

Brian,

Attached you will find a .pdf file of most of the sources represented to the PM models. As you may be aware, building downwash influences are supposed to be accounted for in the air quality impact analysis. I have drawn in pencil the approximate outline of the only building on site represented to any of your models. I have two issues with this information.

1. The CO, NO<sub>x</sub>, and SO<sub>2</sub> models only show main boiler downwash inputs for 3 of 36 10-degree sectors. The utility that produces such inputs was re-run by EPD to show at least 6 10-degree sectors of downwash for the main boiler. The PM models show some 14 10-degree sectors are affected by downwash of the main boiler. Since I'm only discussing the main boiler which is present in each pollutant model, I would think there should be some consistency in the number of downwash sectors for all the models.

2. I have located in pencil on the attached site source plot the only building I find represented in any model. It seems to me that the building is distant from the main boiler stack, or that another building which houses the main boiler should be closer to the main boiler stack. It is possible, without seeing a detailed site plan at a legible scale, that there may be other structures which could cause downwash effects and should be represented in the models. It is not uncommon for both the main boiler and the auxiliary boiler to be housed in separate (sizeable) structures. Other structures may be proposed for the site, such as baghouses, cooling towers, fugitive source-supporting towers, silos, etc. A portion of the site plan with a useable scale should be provided that clearly shows the locations and heights of any other structures which could influence the air quality impacts by creating downwash effects.

If you have questions about these issues, please contact me. I'll be at lunch between 1 and 2 PM.

Sincerely,  
Pete Courtney  
GA EPD  
404-363-7095

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