

From: [Holladay, Cleve](mailto:Holladay_Cleve)
To: [Walker, Elizabeth \(AIR\)](mailto:Walker_Elizabeth)
Subject: FW: FW: FWS Comments on Shady Hills Class I VISCREEN Analyses
Date: Wednesday, March 09, 2011 1:23:31 PM

From: Catherine_Collins@fws.gov [mailto:Catherine_Collins@fws.gov]
Sent: Tuesday, March 08, 2011 5:48 PM
To: Holladay, Cleve
Cc: Tim Allen
Subject: Re: FW: FWS Comments on Shady Hills Class I VISCREEN Analyses

Cleve -- After speaking with Tim Allen our modeler, Shady Hills needs to performn the analysis for each sector individually and not combined. Additionally, for determining the cumulative frequency, this is calculated over the entire day not on individual 6 hour period basis. The cf would be determined to be the highest number for the four time periods of the 24 hour period. There would be one number for cf and not 4 numbers as is currently on the spreadsheet. Then continue to follow the VISCREEN Level 2 Guidance.

Please let me know if you need anything else.

Catherine Collins, Environmental Engineer
U.S. Fish and Wildlife Service
Air Quality Branch
7333 W. Jefferson Ave., Suite 375
Lakewood, CO 80235-2034
303-914-3807
(303) 969-5444 fax
Catherine_Collins@fws.gov

"Holladay, Cleve" <Holladay_C@dep.state.fl.us>

02/17/2011 12:17 PM

To "catherine_collins@fws.gov" <catherine_collins@fws.gov>
cc

Subject FW: FWS Comments on Shady Hills Class I VISCREEN Analyses

Catherine,

Here is the Shady Hills response to FLM comments regarding the proposed Shady Hills modification for you to review.

Thanks
Cleve

From: Marks, Steve [mailto:Steve_Marks@golder.com]
Sent: Tuesday, February 08, 2011 2:30 PM
To: Holladay, Cleve

Cc: Larocca, David; Osbourn, Scott; Belden, Roy S (GE Capital)

Subject: FW: FWS Comments on Shady Hills Class I VISCREEN Analyses

Cleve,

Per your email dated August 16, 2010 (included below), please find the responses (in blue) to the FLM comments regarding the Shady Hills modification.

1st -- The Table 7-4 has the frequency of occurrence (percent) broken down into two time periods. This should be broken down into four time periods during the day (e.g., midnight to 6 am, 6 am to noon, noon to 6 pm, and 6 pm to midnight.) I think the last time we commented, we had a similar comment.

Response: A revised Table 7-4 is attached. The table has been revised to include all four 6-hour time periods, though the starting hour of each period has been kept consistent with the original analysis.

2nd -- For the VISCREEN runs beyond the level 1, the wind speed of 4.4 m/s was utilized. Where did this number come from? Please provide an explanation. In addition in the Delta E and Contrast the "Crit" numbers changed from 2.00 to 2.02 and 0.5 to 0.6. There shouldn't be any variation in these numbers. Again, is there an explanation?

A 4.4 m/s wind speed and D stability class were taken from the original (i.e., 2008) study. From the revised Table 7-4, the Level 2 meteorological condition for daytime hours changes to D stability and 4 m/s. For the added nighttime hours, the Level 2 meteorological condition is stable "F" stability and a wind speed of 3 m/s.

Figures CL1-1 and CL1-2 show the Level 1 results for natural gas and fuel oil firing, respectively.

Figures CL1-3 and CL1-4 show the Level 2 results for daytime hours for natural gas and fuel oil firing, respectively.

Figures CL1-5 and CL1-6 show the Level 2 results for nighttime hours for natural gas and fuel oil firing, respectively.

The level 2 results presented in CL1-3 and CL1-4 are similar to those presented in the original PSD submittal and demonstrate that the visibility impairment due to the proposed project during hours when the plume would be visible will remain below all visibility criteria.

If you have any questions or comments, please contact me. Thank you.

Steve

Steven R. Marks, M.S., C.C.M. | Associate, Senior Scientist | **Golder Associates Inc.**

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From: Holladay, Cleve [mailto:Holladay_C@dep.state.fl.us]
Sent: Monday, August 16, 2010 4:11 PM
To: Marks, Steve
Cc: Bull, Robert
Subject: FWS Comments on Shady Hills VISCREEN analysis

Steve,

Here are the Fish and Wildlife (Tim Allen and Catherine Collins) comments on the Shady Hills VISCREEN analysis

1st -- The Table 7-4 has the frequency of occurrence (percent) broken down into two time periods. This should be broken down into four time periods during the day (e.g., midnight to 6 am, 6 am to noon, noon to 6 pm, and 6 pm to midnight.) I think the last time we commented, we had a similar comment.

2nd -- For the VISCREEN runs beyond the level 1, the wind speed of 4.4 m/s was utilized. Where did this number come from? Please provide an explanation. In addition in the Delta E and Contrast the "Crit" numbers changed from 2.00 to 2.02 and 0.5 to 0.6. There shouldn't be any variation in these numbers. Again, is there an explanation?

Cleve

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