

RYAL PLANT, No 1

From: brenda johnson
To: RTP10.RTPTSD (WILSON-DEAN)
Date: 10/8/96 2:56pm
Subject: background concentrations

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Dean:

I need your input after all. In Kentucky, the PSD modeling for this aluminum smelter showed NAAQS violations for the 24-hr period for SO2 using the highest 24-hr concentrations for a local monitor. Influences from the source in question were removed in determining the background. However, there is a power plant, Big Rivers, within 6-7 km away (106 m stacks). I not sure if the conditions leading to the maximum concentration were from this plant, yet. However, the plant was specifically modeled. The applicant wants to review the background concentrations and remove all ambient concentrations when the wind was blowing from the power plant also. If this is done, does one determine the 24-hour period with only those hours (e.g., 12, 18, 20, etc.) remaining in this period? Or can the second highest 24 hr background concentration be used? Also, if the highest-second-high concentrations doesn't involve a direction from the power plant at all then my question on using the second high background remains? I'll call you tomorrow to discuss this. Thank you Brenda

CC: RTP10.RTPTSD (DOLL-DENNIS)