

Catherine A Barton

06/27/2001 03:24 PM

To: Debbie J Mulrooney/AE/DuPont@DuPont, Robert F Pinchof/DEV/AE/DuPont@DuPont  
cc: Catherine A Barton/AE/DuPont@DuPont  
Subject: Recap of our meeting

Just so we're on the same page (and so I can remember what we said we'd do a week from now), I've summarized some notes from our meeting today. If any of this looks incorrect to either of you, please holler.

#### **Air Risk**

- Debbie will run an additional air dispersion modeling case ("Case 5") to represent the following conditions:
  - Release rate = 0.03 g/s
  - Stack flow rate = 10,000 scfm
  - Stack Velocity = 100 ft/s
  - Stack Height = 85 ft
  - Building Height = 55 ft
  - Temperature = 298 K
- We will compare the Case 5 concentration results to the CEG for air of 0.3 ug/m3 to ensure these design conditions meet our guidelines with a "reasonable level of comfort".

#### **Drinking Water Risk**

- Debbie will pass along the input file to Cathie to be run in risk mode at 1 g/s to provide revised input for deposition calculations.
- Cathie will explore the ultimate fate of all the emissions leaving the stack (ie, 0.03 g/sec for a year which equals 2086 lbs/yr by my calculations). Specifically, we would like to be able to create a mass balance of all the compound leaving the stack.
- Cathie will validate her assumptions about the appropriate annual deposition rates and watershed surface area and finalize her calculations.
- We will compare the new water concentration results to the CEG for water of either 1 ug/l or 3 ug/l, depending on results from the air exposure to ensure the design conditions meet our drinking water guidelines with a "reasonable level of comfort".

#### **Fish Risk**

- Using the water concentration calculated above, a BCF of 10, and fish consumption rates recommended by the Environmental Factors handbook, Cathie will compare expected doses from fish consumption with our guideline of 730 ug/yr.

#### **Final Fayetteville Answer**

- We will provide final verbal answers for air and water risk by July 11, with the report following.

#### **Washington Works**

- We will provide a rough scope and estimate for the new work that was discussed by July 9.

CAB000202

EID547051