Frank D Smith
05/13/2002 08:25 AM

To: Catherine A Barton/AE/DuPont@DuPont
cc: Kenneth N Wood/AE/DuPont@DuPont, James F Riley/CL/DuPont@DuPont, Craig L Bartlett/AE/DuPont@DuPont
Subject: TEFLON AT SPRUANCE

Cathy
FYI
Frank

---------- Forwarded by Frank D Smith/AE/DuPont on 05/13/2002 08:24 AM ----------

Isidoros J Zanikos 05/11/2002 07:39

To: Michael R Liberati/AE/DuPont@DuPont
cc: Andrew S HARTTEN@DuPont, Frank D Smith/AE/DuPont@DuPont, Michael J Lukas@DuPont
Subject: TEFLON AT SPRUANCE

Mike, the screening levels have been set in WVA as part of the consent order. EPA region III and V will adopt.

- drinking water 150ppb
- soil 240 ppm
- air 0.1 to 6 micrograms/ meter (the independent group will narrow this range in the future. The Dupont CEG number is 0.3) I would shoot for the low end of this range

The CRG objective at Spruance is to identify the potential need for operating changes such as the additon of wastewater treatment equipment or air emission controls to meet these numbers. This will allow the business to montetize these controls, so that the business sales agreement can address the issue of who will pay for these controls. Just to ground you , the max concentration in groundwater (not drinking water) at Wash Works is in the low 30ppb range. Drinking water is much lower. Onsite Surface soil concentrations at WW are below the number. Max air concentrations are in the low end of the range.

I suggest a combination of sampling and process knowledge approach to develop a mass balance around the process.

- Sample the wastewater stream, including scrubber effluent. Calculate the concentration in the river (assume that is influent to Hopewell)
- Assume that mass emitted thru the air is the difference between what came in the product and the wastewater mass
- thru air modeling, calculate the max concentration in the air.

Alternitively, back calculate the mass needed to create an ambient air max concentration at the screening level and then thru process knowledge assess the potential to emitt that quantity . You could do the same approach for water.

Frank, I suggest as similar approach for Circleville