From: Oxenberg, Tanya
Sent: Wednesday, March 07, 2012 9:21 AM
To: Garrett, Betty
Subject: FW: Clarification on Dryer
Attachments: Dryer Emissions.xlsx

From: Cash, John [mailto:John.Cash@ur-energyusa.com]
Sent: Monday, March 05, 2012 3:31 PM
To: Bjornsen, Alan
Cc: Oxenberg, Tanya; Bull, Catherine; Steve Hatten
Subject: Clarification on Dryer

Dear Alan,

Please find below clarifications regarding the Lost Creek dryer amendment.

- The apparent location of the exhaust pipes on the ventilation drawing can be misleading because it is two dimensional. We have redone the drawing so you can see where the various pipes penetrate the roof by matching the number with the legend. The only pipes penetrating the shop roof will be from radiant space heaters. If you would like an official submittal of this drawing just let me know.
- The waste water generated per batch of yellowcake (precipitation, filter press and finally drying) is going to be nearly zero. The current plan is to capture all the liquid from the precipitation, filter press and dryer and use it for fresh eluant make-up. This serves two purposes, chemical consumption reduction and water consumption reduction.
- The propane furnace used to heat the dryer thermal oil will consume up to 3,000 cu ft per hour of propane when the oil heaters are running. I have run through some quick calculations, see attached Excel Spreadsheet to determine the amounts of various emissions. To produce 1 million pounds of yellowcake per year we would need to run the dryer about 6 days per week. The table results are shown in 1 dryer batch per day assuming 12 hours of burn time per batch. This is a very conservative estimate.
- The current dryer design calls for a cooling tower capable of exchanging 2,000 KBTU per hour.

Hope this helps with your review.

Regards,

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