

**From:** Shroff, Behram  
**Sent:** Tuesday, July 28, 2009 8:41 AM  
**To:** Moon, Tarsha  
**Subject:** FW: Response to questions

Hi: PI put this ADAMS under docket 04009073, subject: " RAI on Evaporation Ponds"  
Thanks

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**From:** Mike Griffin (USA) [mailto:Mike.Griffin@uranium1.com]  
**Sent:** Monday, July 27, 2009 6:00 PM  
**To:** Shroff, Behram  
**Subject:** RE: Response to questions

Behram:

I have some additional data for you concerning the pond alternatives. I received the final revision of our alternatives study over the weekend and have the following numbers. Please understand that U1 commissioned this study based on a typical model plant and not specifically for Moore Ranch. In particular, the combined waste water flow for this model was 150 gpm, whereas Moore Ranch estimates 105 GPM. The study also uses a 20 year NPV rather than 12.5 for Moore Ranch. However, the values below are in the ball park for Moore Ranch although they would be somewhat conservative (high):

- Pond area is estimated at 15.2 acres with a total depth of 20 ft. I may have given you an area of 10.2 but that was just for restoration water and I did not have the complete table at the time.
- Sludge generation rate for solar ponds for the model is estimated at 50 cubic yards per day, or approximately 5% of the waste generation rate (i.e., 95% efficient for evaporation). This is approximately 43 cubic yards of actual waste sludge and 7 yards of solidification materials (lime, polymer, and soda ash).

Mike

**Mike Griffin**  
**Vice President, Safety, Health and**  
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**From:** Shroff, Behram [mailto:Behram.Shroff@nrc.gov]  
**Sent:** Monday, July 27, 2009 1:51 PM  
**To:** Mike Griffin (USA)  
**Subject:** RE: Response to questions

Hi: Thanks for all the data provided last week. I think the exercise is done. If you get some answers re the items below, pl send them on.

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**From:** Mike Griffin (USA) [mailto:Mike.Griffin@uranium1.com]  
**Sent:** Thursday, July 23, 2009 8:27 AM  
**To:** Shroff, Behram  
**Subject:** Response to questions

Good morning Behram:

I have been unable to get a copy of the figure depicting surface impacts. I sent an email to the engineer that is developing it during our conversation last night but she was apparently not in the office. I suspect that the figure is not final yet. It is being developed in response to the ER RAI question on surface water impacts (TR 7.2.9.2.2 and ER 3.1.3) but is showing all planned development and is not restricted to surface water areas.. I have also been unable to locate the total number of wells and holes currently drilled and projected but have requested that information from our Project Geologist. Unfortunately, the people that I need to help respond will not be in until 10:00 a.m. your time. I will provide the information as soon as possible.

Regards,

Mike

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## E-mail Properties

Mail Envelope Properties (B4ECC0E252653F48B3F57C3B833465E8101ACC11BE)

Subject: FW: Response to questions  
Sent Date: 7/28/2009 8:40:55 AM  
Received Date: 7/28/2009 8:40:55 AM  
From: Shroff, Behram

Created By: Behram.Shroff@nrc.gov

Recipients:  
Tarsha.Moon@nrc.gov (Moon, Tarsha)  
Tracking Status: None

Post Office:  
HQCLSTR02.nrc.gov

| Files        | Size  | Date & Time |
|--------------|-------|-------------|
| MESSAGE      | 23221 | 7/28/2009   |
| image001.jpg | 3819  |             |
| image002.jpg | 2707  |             |

Options  
Expiration Date:  
Priority: o!ImportanceNormal  
ReplyRequested: False  
Return Notification: False

Sensitivity: o!Normal  
Recipients received: