

**Worosilo, Jannette**

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**From:** Nielsen, Adam *AD*  
**Sent:** Tuesday, March 30, 2010 2:50 PM  
**To:** Kolcum, Gregory; Worosilo, Jannette  
**Subject:** FW: SDSP enforcement timeline

FYI

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**From:** Nielsen, Adam  
**Sent:** Tuesday, March 30, 2010 2:46 PM  
**To:** OBryan, Phil  
**Cc:** Kuzo, George; Gepford, Heather; Bonser, Brian; Musser, Randy; Hannah, Roger  
**Subject:** SDSP enforcement timeline

I just left you a voicemail responding to the question you asked Heather. I told you wrong in that voicemail. An LIV was issued in report 2008-002 for failure to evaluate doses to the public from seepage into Nancy Creek (and other pathways) i.e. a violation for assuming release through the composite sampler into the intake canal was the only pathway to the public.

Here's a timeline of our (recent) enforcement action:

2007-003 - URI opened as part of event followup for tritium discovered in SDSP.

2008-002 - URI 2007-003-002 closed. URI 2008-002-002 opened to review evaporation pathway. LIV issued for failure to evaluate doses from various pathways (including seepage into Nancy Creek) as a result of tritium released to SDSP. Very low safety significance due to no release limits exceeded.

2008-003 - URI 2008-002-002 discussed and determined that TIA from NRR needed to resolve issue of evaporation. Included in PI&R Annual Sample section: Green Finding for tritium leakage in powerblock not being recognized as current leakage rather than from historical radwaste line breaks.

2008-005 - URI 2008-002-002 closed upon completion of TIA. Evaporation pathway is not a significant contributor to offsite dose. Minor violation for not including evaporation data in annual effluent reports.

I believe Eldan Testa had a violation for radionuclides being released into the SDSP years ago, and their response was to install the composite sampler and make the pond a permitted release point, but I could find no information on this and it's just from memory. Anyway, that was several years ago (early 1990's maybe?).

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**From:** OBryan, Phil  
**Sent:** Tuesday, March 30, 2010 11:20 AM  
**To:** Kuzo, George  
**Cc:** Nielsen, Adam  
**Subject:** RE:

I understand the context of the statement now. Thanks.

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**From:** Kuzo, George  
**Sent:** Tuesday, March 30, 2010 10:02 AM  
**To:** Nielsen, Adam  
**Cc:** OBryan, Phil; Bonser, Brian  
**Subject:** RE:

*J-35*

Absolutely true - we do not know any specific details regarding if the switch yard tritium has gotten offsite. Note studies are continuing and we have not seen any dta from the switch yard wells

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**From:** Nielsen, Adam  
**Sent:** Tuesday, March 30, 2010 9:37 AM  
**To:** OBryan, Phil; Kuzo, George; Bonser, Brian; Hannah, Roger  
**Cc:** Musser, Randy  
**Subject:** RE:

I believe what George meant is that the localized tritium leakage that lead to the Green finding has not contributed to any offsite tritium. This is the tritium that leaked out of the concrete storm drain piping before getting to the SDSP. They had incorrectly assumed that this tritium was from a historical leak and that was the issue that lead to the Green.

The tritium that has been collecting in the SDSP for years has contributed to the tritium in Nancy Creek (offsite). I'm sure George will write more when he gets a chance. He is working from home today, but is on AL for certain times this morning.

Call me: x4660  
or George: 404 786-3315

thanks  
Adam

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**From:** OBryan, Phil  
**Sent:** Tuesday, March 30, 2010 7:51 AM  
**To:** Kuzo, George; Bonser, Brian; Hannah, Roger  
**Cc:** Nielsen, Adam; Musser, Randy  
**Subject:** RE:

The licensee is aware of the problems with the story and is planning some sort of correction (exact form of communication is undecided at this time). George, the statement below " To date there has been no indication of this issue has directly contributed to tritium to the offsite environs but additional studies are continuing." - is this accurate considering the positive samples in Nancy's Creek? Technically, this is not on the licensee's property.

One of the licensee's communications options being considered is to send letters to the neighbors of the plant and to Southport officials explaining everything. I told Mike Annacone (site VP) yesterday that it would be more appropriate to send something to the Star-News, since many more people were exposed to the bad information through the newspaper and the letters would not correct the problem. Perhaps we should consider doing this (talking to the Star-News) if the licensee doesn't. This was a front page story in the paper and it has "NRC said..." in it. I think our responsibility extends beyond the immediate vicinity of the plant.

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**From:** Kuzo, George  
**Sent:** Monday, March 29, 2010 2:56 PM  
**To:** Bonser, Brian; Hannah, Roger  
**Cc:** Nielsen, Adam; OBryan, Phil; Kuzo, George  
**Subject:**

Roger/Brian/Phil,

Adam and I have these comments.

Roger - you may want to discuss the two article statements, offsite concentrations and findings w/ the BSEP PA individual, so he does not get blind-sided as a liar in the press. Also, Adam is checking to see if the

waypoint data for Nancy Creek is listed in either the Annual Effluent Reports/ Radiological Environmental Monitoring Report. Adam will get back to us.

## Region 2 clarification regarding the Starline News

The NRC R2 staff believe that w/out the proper context, two statements in the article need some clarification.

1. As part of the current monitoring program, the licensee has occasionally reported extremely low tritium concentrations (< 1000 picocuries per liter [pCi/l]) in Nancy Creek surface water samples immediately adjacent to the onsite stabilization pond. These concentrations are significantly less than limits (20,000 pCi/l) established by the EPA for drinking water. The water is not used for potable (drinking) purposes. If the article's intent was to indicate that no detectable concentrations of tritium have been found in samples from the deep aquifer supplying drinking water to the surrounding communities then the statement would be true.
2. Although no significant violations were identified during the most recent inspection of the groundwater protection program, a minor violation regarding the failure to adequately review controls for the storage of radioactive liquid waste in a large number of 250 gallon storage containers within the radiologically controlled onsite area was identified. This minor issue was addressed in a timely fashion and in accordance with NRC policy will not be documented in the upcoming NRC inspection report which will be issued in late April 2010. Also, a green finding regarding failure to properly identify the root cause of tritium leaks from turbine building condensate routed through the storm drain piping was identified in second quarter of calendar year 2008 (Inspection Report 05000325, 324/2008003). Again, the licensee has addressed this finding and is currently working to characterize the quantities and location of the tritium released. To date there has been no indication of this issue has directly contributed to tritium to the offsite environs but additional studies are continuing.