



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

June 1, 2006

MEMORANDUM TO: Docket File 030-08219 *MB Spitzberg*

THROUGH: D. Blair Spitzberg, Chief
Fuel Cycle and Decommissioning Branch

FROM: Robert J. Evans, Senior Health Physicist *RJ Evans*
Fuel Cycle and Decommissioning Branch *5/24/06*

SUBJECT: SUPPLEMENTAL INFORMATION FOR U.S. ENVIRONMENTAL PROTECTION
AGENCY'S FINAL STATUS SURVEY REPORT

By letter dated August 9, 2004, the U.S. Environmental Protection Agency (EPA) requested a license amendment to remove Building 53 from NRC Materials License No. 05-14892-01. Enclosed to the licensee's letter was a final status survey report dated June 2004.

The NRC conducted an onsite inspection at EPA during October 2005. Results of the inspection are documented in NRC Inspection Report 30-08219/05-001. The inspector discussed the details of the final status survey report with the licensee during the inspection. As a result of these discussions, the licensee submitted explanations and corrected pages to the inspector.

Attached are copies of minor corrections and explanations provided by the licensee during and after the October 2005 inspection. This information supplements the EPA's final status survey report dated June 2004.

Docket No.: 030-08219
License No.: 05-14892-01

Attachments: As Stated

Conference call notes for EPA NEIC Final Status Survey Report FSSR

Date: 10/19/2005

Call Time: 1000 EDT - 1245EDT

Participants:

Al Ossinger, EPA NEIC

Bob Evans, NRC

Randy Rogers, Shaw

James Nelson, Shaw

Becky Collins, Shaw

Rick Greene, Shaw

1. Mr. Evans reported that NRC is conducting review of FSSR and confirmatory sampling at Building 53.
2. NRC must prepare 3 documents to respond to FSSR
 - a. Inspection Report with NRC sample results
 - b. Environmental Assessment
 - c. Safety Evaluation Report
3. Mr. Evans went through the document very thoroughly asking questions about how work was conducted and logic behind certain decisions.
4. Mr. Evans pointed out that NRC license had an error in requirement to use Table 1 values for release, when it should have been dose-based. Shaw reported that we recognized this error at the time work was conducted in winter 2004 and were instructed by EPA to follow the license.
5. Mr. Evans reported he had recently taken over the project and had two sets of questions; his own and his predecessor's.
6. Mr. Evans asked if decontamination was required on equipment to meet release criteria; Shaw stated it was not.
7. Mr. Evans stated that license allowed for discharge of liquid waste via sinks and drains, yet they were not part of sample plan. Al Ossinger stated that while the license allowed liquid wastes to be disposed in sinks, that was not the practice, thus no samples were required.
8. Mr. Evans asked if spills had occurred at the site. Al Ossinger stated that no spills had occurred.
9. Mr. Evans requested us to walk provide an example of data manipulation from field readings to reporting in field data sheets; specifically for lab A1209. James Nelson walked through the calculation and Mr. Evans was satisfied.
10. Action items for Shaw from morning call
 - a. Substantiate reasoning for use of cesium as calibration source.
 - b. Verify MDC for alpha is in agreement with MARSSIM
 - c. Determine for A1209 data sheet if background values were incorrectly incorporated into the calculation of mean and standard deviation
 - d. Vol. 2 cross-reference sheet from Paragon Analytics report has two page 1 of 2 and no page 2 of 2. Can NRC get Page 2 of 2 today?

- e. Identify which instruments (by serial number) were used for scanning in labs A1505 and A1507.
11. Action items for NRC
- a. Provide Shaw with email via Al Ossinger of the above comments in writing to clarify data needs.
 - b. Will call Shaw back at 1530 EDT with additional questions and update on our action items.

Conference call notes for EPA NEIC Final Status Survey Report FSSR

Date: 10/19/2005

Call Time: 1530 EDT - 1600EDT

Participants:

Al Ossinger, EPA NEIC

Bob Evans, NRC

Randy Rogers, Shaw

Rick Greene, Shaw

1. Follow up call following Mr. Evans review of Volume 3 of 3 of FSSR.
2. Mr. Evans stated that figure 2-23 and page 2-6 stated A1004 was used as background, based on inspection and tape marks remaining on surfaces that A1006 actually was the room used for background.
3. Floor tiles outside room A1902 appear to have been used for background yet were not included in the figures showing background.
4. Mr. Evans stated that if document revisions were required for Shaw to please determine if the changes will effect Tables 2-4 and 2-5 and make relevant changes to those tables as necessary since he will rely on those tables for his reports.
5. Randy Rogers requested that any data needs/action items be provided to Shaw in writing so we can respond and not interpret things incorrectly. Mr. Evans stated that Al Ossinger could send us the summary and data request.
6. Randy and Rick Greene reported on status of action items from the 1000 call
 - a. Cesium source – still working
 - b. MDC for alpha – Rick reported this was done using a probability equation in accordance with MARSSIM and is presented in Appendix C
 - c. A1209 data sheets did incorrectly include background in mean and standard deviation calculations.
 - d. Paragon Analytics page 2 of 2; all data has been sent to off-site storage. Shaw can get it in 1-2 days. Mr. Evans stated he did not need it.
 - e. Instruments by serial number – still working.
3. Action items for NRC
 - a. Send photos to Shaw of marks in lab A1006
 - b. Send photos to Shaw of marks outside lab A1902

Action Item #	Lead	Action	Status	Resolution
1	Shaw	Substantiate reasoning for using cesium as calibration source.	Open	
2	Shaw	Verify MDC for alpha is in agreement with MARSSIM.	Closed: Rick Greene reported on the 1530 call on 10/19/05 that MDC for alpha was determined using probability equation in accordance with MARSSIM, as discussed in Appendix C of the FSSR.	Complete Does EPA or NRC want Shaw to issue revised data sheets for lab A1209?
3	Shaw	Determine for lab A1209 data sheet if background values were incorrectly included in the calculation for mean and standard deviation.	Closed: Rick Greene reported on the 1530 call on 10/19/05 that background values in lab A1209 were included in the calculations.	
4	Shaw	In Volume 2, the cross reference sheet from Paragon Analytics has two page 1 of 2 and no page 2 of 2. If available, provide page 2 of 2	Closed: Randy Rogers reported on the 1530 call on 10/19/05 that all data for the project has been sent to off-site storage. Asked if NRC requires this page. NRC stated they do not need the page.	Complete Does EPA or NRC want Shaw to issue revised data sheets for labs A1505, A1507, A1902 and D2205?
5	Shaw	Identify which instruments (by serial number) were used for scanning in labs A1505, A1507, A1902, and D2205	Open	
6	NRC	Provide Shaw with email via Al Ossinger of NRC comments to the Final Status Survey Report to clarify all data needs.	Open	
7	NRC	Contact Shaw at 1530 on 10/19/05 if there are any additional questions/comments to FSSR.	Open	
8	NRC	Send photos to Shaw of marks in lab A1006. Shaw may have reported lab A1004 was used as background rather than A1006 as suspected by NRC.	Open	
9	NRC	Send photos to Shaw of marks outside lab A1902. Shaw may have not have reported this area was used as background location.	Open	

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5	Shaw	Identify which instruments (by serial number) were used for scanning in labs A1505, A1507, A1902, and D2205 Provide Shaw with email via Al Ossinger of NRC	items 1, 2, 3, 7, 8, 10; Room A1505/1507 survey items 1-5; Room A1902 survey items 1-5 Instrument #185774: Room D2205 survey items 4, 5, 6, 9; Room A1505/1507 survey items 6-10; Room A1902 survey items 6-10.	Does EPA or NRC want Shaw to issue revised data sheets for labs A1505, A1507, A1902 and D2205?
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7	NRC	Send photos to Shaw of marks in lab A1006. Shaw may have reported lab A1004 was used as background rather than A1006 as suspected by NRC.	Open	
8	NRC	Send photos to Shaw of marks outside lab A1902. Shaw may have not have reported this area was used as background location.	Open	
9	NRC		Open	

Action Item Status for NRC Review
Final Status Summary Report
Building 53
EPA NEIC

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5	Shaw	Identify which instruments (by serial number) were used for scanning in labs A1505, A1507, A1902, and D2205	Instrument #185768: Room D2205 survey items 1, 2, 3, 7, 8, 10; Room A1505/1507 survey items 1-5; Room A1902 survey items 1-5 Instrument #185774: Room D2205 survey items 4, 5, 6, 9; Room A1505/1507 survey items 6-10; Room A1902 survey items 6-10. Shaw requested feedback from EPA on 10/25/05 (email Rogers to Ossinger) if EPA wanted a revised field data collection sheet showing which instruments were used. EPA confirmed via email from Steve Fletcher on 2/8/06 that revised field data collection sheets are required. Revised field collection data sheets transmitted to EPA via email from Rogers to Fletcher on 2/23/06.	Complete
6	NRC	Provide Shaw with email via Al Ossinger of NRC comments to the Final Status Survey Report to clarify all data needs.	Open	Shaw completed action items based on our notes during conference calls on 10/19/05.
7	NRC	Contact Shaw at 1530 on 10/19/05 if there are any additional questions/comments to FSSR.		Complete
8	EPA	Send photos to Shaw of marks in lab A1006. Shaw may have reported lab A1004 was used as background rather than A1006 as suspected by NRC.	Al Ossinger sent photos via email on 11/14/2005.	Complete
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Rev. 3
2/23/2006

Action Item Status for NRC Review
Final Status Summary Report
Building 53
EPA NEIC

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Rev. 3
2/23/2006

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Final Status Summary Report
Building 53
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Final Status Data Summary Table: Alpha and Beta Scan Data
Survey Unit: Laboratory A1209
Building 53, Denver Federal Center

(Page 1 of 5)

Action Criteria Individual Measurements

Laboratory ID	Bkg. Value	MDCR _{Surveyor}	337.0	351.0	326.0	426.0	366.0	388.0	353.0	402.0	375.0	400.0	No. of meas./locs Maximum	Mean	Standard Deviation	No. > MDCR _{Surveyor}	
Beta Scan A1209 Concrete floor	357.5	500.0											10.0	426.0	372.4	31.70	0
Alpha Scan A1209 Concrete floor			1.0	5.0	3.0	3.0	2.0	3.0	2.0	2.0	4.0	1.0	10.0	5.0			
													Mean	Standard Deviation	No. > MDCR _{Surveyor}		
													2.6	1.26	0		

Notes:
 Bold values exceed respective criteria.
 Kcpm - Thousand counts per minute.
 Bkg. - Background.
 MDC - Minimum detectable concentration

Contamination / Radiation Survey Report

CONTAMINATION / RADIATION SURVEY REPORT		PROJECT NUMBER: 101115		DATE: 030204	TIME START: 1300	TIME COMPLETE: 1615	PAGE 1 OF 10																																																																																																																																																																																										
LOCATION: EPA NEIC Denver Federal Center, CO Denver, CO		SURVEYOR(S): Trent Stephens SURVEY NUMBER: 030204-30 MAP ID:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Item #</th> <th colspan="2">Alpha</th> <th colspan="2">Beta-Gamma</th> <th rowspan="2">Material</th> <th rowspan="2">Room or Location</th> </tr> <tr> <th>Loose</th> <th>Total</th> <th>Loose</th> <th>Total</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>M-2</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>K-4</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>J-3</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>WB</td> <td>A-9</td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>WB</td> <td>B-2J</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>D-5</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>T-7</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>J-6</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>M-6</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td>FT</td> <td>L-5</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>21</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>22</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>23</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>24</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Item #	Alpha		Beta-Gamma		Material	Room or Location	Loose	Total	Loose	Total	1					FT	M-2	2					FT	K-4	3					FT	J-3	4					WB	A-9	5					WB	B-2J	6					FT	D-5	7					FT	T-7	8					FT	J-6	9					FT	M-6	10					FT	L-5	11							12							13							14							15							16							17							18							19							20							21							22							23							24							25						
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bcc w/enclosure (via ADAMS e-mail distribution):

- LDWert
- DBSpitzberg
- JEWhitten
- BASchlapper
- RJEvans
- RSBrowder
- FCDB
- RIV Materials Docket Files - 5th Floor

SUNSI Review Completed: RJE ADAMS: Yes No Initials: RJE
 Publicly Available Non-Publicly Available Sensitive Non-Sensitive

DOCUMENT NAME: s:\dnms\fcdb\!rje\EPA DFC FRN.wpd final r:_dnms

RIV:DNMS:FCDB	C:FCDB		
RJEvans	DBSpitzberg		
<i>RSawant</i>			
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