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**From:** Rutherford, Philip D [REDACTED]  
**Sent:** Thursday, December 11, 2014 1:18 PM  
**To:** Wondolleck, John; Rucker, Tom L.  
**Cc:** EXT-Sorreles, Earl L; Dassler, David W; Williford, T. Stewart; Hay, Scott; Barnes, John; Jones, John; Frazee, Brad; Jennings, Stephanie  
**Subject:** RE: Radioactivity Data

The quarterly routine removable and dose rate surveys are conducted in generally accessible areas of RMHF and 4024 and are intended to verify continued safe conditions. The routine FCA surveys outside the RMHF buildings are intended to verify (or otherwise) continued lack of loose contamination in accessible locations due to surface degradation.

Additional data on fixed contamination at RMHF and 4024 may be found at the following.

#### **RMHF**

Fixed and removable contamination survey inside the 4022 vaults and 4021 was conducted in March 2007 and documented in

[http://www.etec.energy.gov/Library/Main/RMHF\\_Radiological\\_Status\\_3-17-2007.pdf](http://www.etec.energy.gov/Library/Main/RMHF_Radiological_Status_3-17-2007.pdf)

Cabrera conducted a survey of all buildings in RMHF in the summer of 2007 and that is documented at [http://www.etec.energy.gov/library/main/07-1016-00\\_Boeing\\_SSFL\\_RMHF\\_FINAL\\_Report.pdf](http://www.etec.energy.gov/library/main/07-1016-00_Boeing_SSFL_RMHF_FINAL_Report.pdf)

Finally, see the three attached non-routine fixed contamination surveys for the floor plug 7 in 4022 (RMHF) conducted several years ago.

#### **4024**

Areva conducted a comprehensive survey of 4024 in 2007 prior to the stop work order. This includes fixed measurements. That is documented in a main report and 11 appendices at ...

[http://www.etec.energy.gov/Operations/Major\\_Operations/SNAP.html](http://www.etec.energy.gov/Operations/Major_Operations/SNAP.html)

[http://www.etec.energy.gov/Library/Main/SETF\\_Char\\_Report\\_finalr\\_010908%20\\_2\\_.pdf](http://www.etec.energy.gov/Library/Main/SETF_Char_Report_finalr_010908%20_2_.pdf)

Hope this helps.

Phil

*Phil Rutherford  
Manager, Health, Safety & Radiation Services  
The Boeing Company  
Santa Susana Field Laboratory*

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**From:** Wondolleck, John [REDACTED]  
**Sent:** Thursday, December 11, 2014 9:13 AM  
**To:** Rutherford, Philip D  
**Cc:** Rucker, Tom L.  
**Subject:** FW: Radioactivity Data

Phil, can you answer Dr. Rucker's questions. Thanks.

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**From:** Rucker, Tom L. [REDACTED]  
**Sent:** Thursday, December 11, 2014 9:51 AM  
**To:** Wondolleck, John  
**Cc:** Enyeart, Sandy B.; Roles, Gary W.  
**Subject:** RE: Radioactivity Data

John,

Thanks! It helps to have the newer data since these buildings have continued to be used since 2008. I have a couple of questions perhaps you can research further.

- 1) There were no fixed contamination measurements inside of the buildings, only removable with smears and external dose-rate measurements. Does that mean that fixed contamination data does not exist for the inside of the buildings (there were fixed measurement for the FCAs outside of the buildings)?
- 2) For building 4021 which contains Radiation Areas (RAs)/Contamination Areas (CAs), There were no measurements of any kind for the RAs/CAs. Does that mean that no data exists for the areas?

*TLRucker*

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**Thomas L. Rucker, Ph.D. | Leidos**  
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**From:** Wondolleck, John [REDACTED]  
**Sent:** Wednesday, December 10, 2014 6:50 PM  
**To:** Rucker, Tom L.; Enyeart, Sandy B.  
**Subject:** FW: Radioactivity Data

See below Phil's response for more recent radionuclide data for RMHF/4024.

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**From:** Rutherford, Philip D [REDACTED]  
**Sent:** Wednesday, December 10, 2014 3:23 PM  
**To:** Wondolleck, John; Dassler, David W  
**Cc:** Jones, John; Jennings, Stephanie  
**Subject:** RE: Radioactivity Data

John,

Boeing has not conducted any further radiological soil sampling in Area IV since 2008. You are of course aware of the EPA survey at [http://www.etec.energy.gov/Char\\_Cleanup/EPA\\_Soil\\_Char.html](http://www.etec.energy.gov/Char_Cleanup/EPA_Soil_Char.html).

Routine quarterly survey data for RMHF and 4024 facilities for the second and third quarters of 2014 were provided to North Wind (attached).

A summary of 2008-2010 infiltrated groundwater at 4024 is attached. Subsequent sampling was likewise non-detect for nuclear by-product material.

The environmental dosimeter results (#11, #12 and #14) are on pages 5-3, 5-7 and 5-8 of the 2013 ASER at [http://www.etec.energy.gov/Environmental\\_and\\_Health/ASER.html](http://www.etec.energy.gov/Environmental_and_Health/ASER.html)  
[http://www.etec.energy.gov/Environmental\\_and\\_Health/Documents/ASERS/ASER\\_2013.pdf](http://www.etec.energy.gov/Environmental_and_Health/Documents/ASERS/ASER_2013.pdf)

Data files for area dosimeters are attached.

Phil

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Manager, Health, Safety & Radiation Services  
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**From:** Wondolleck, John [REDACTED]  
**Sent:** Tuesday, December 09, 2014 2:52 PM  
**To:** Rutherford, Philip D; Dassler, David W  
**Cc:** Jones, John; Jennings, Stephanie  
**Subject:** Radioactivity Data

Phil, in 2008 you provided SAIC with radioactivity/radionuclide data for Area IV soils and buildings (4024/RMHF). Has there been any sampling or surveys of 4024 and the RMHF since then, and if so can you forward the data.

Also, do you have data files for the area wide dosimeters still in place near these two facilities.

Thanks.

John Wondolleck  
CDM Smith  
[REDACTED]