

**From:** [Ryan Fahey](#)  
**To:** [DeBoer, Briana](#)  
**Cc:** [Roberts, Mark](#); [Hart, Mary](#)  
**Subject:** [External\_Sender] Bristol-Myers Squibb Final Status Survey Report  
**Date:** Tuesday, November 13, 2018 9:11:58 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)

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Good Morning Briana,

Please see our responses below to your questions that you had regarding the Bristol-Myers Squibb final status survey report. I will send you a revised copy of the report once all questions have been addressed.

Best Regards,

Ryan

Ryan Fahey  
Director of Operations  
DDES, LLC  
978-844-4560



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To: Mary C. Hart, RSO, Associate Director, EHS  
From: Briana DeBoer, NRC

As discussed on November 8, 2018 via telephone call with Ryan Fahey, DDES Project Manager and Briana DeBoer, NRC, below are the questions we have regarding your request.

1. We understand that as part of the decommissioning process you intended to have 10% of all previously decommissioned spaces go through the final status survey process as a final assurance that these areas do not have any residual contamination. Please provide the list of rooms that were previously


decommissioned and included in the final status survey.

DDES completed confirmation surveys to verify previously decommissioned areas of the facility. The following rooms were treated as Class 2 Survey Units as they were requested to be surveyed by the NRC due to findings in previous decommissioning survey review: 140Z, 314E, 338A, 404E, 409B, 411A, 492A. As a level of conservatism, DDES treated all other areas of the BMS Wallingford site as class 3 survey units. 100 percent of horizontal surfaces were scanned throughout the facility. Judgmental locations were selected for static measurements and removable contamination measurements. These survey units are in the report as the following survey units: 3<sup>rd</sup> Floor Class 3, 4<sup>th</sup> Floor Class 3, Penthouse & 5<sup>th</sup> Floor, and Vivarium Class 3.

2. Page 19 of the Final Status Survey Report includes the following statement “there were no Class 2 survey units included in this Final Status Survey.” Please confirm that this statement is incorrect as there are Class 2 survey units documented in the appendices.

This was an error in the report and it has been updated to reflect that there were Class 2 survey units.

3. In order for the NRC to confirm your sample spacing interval calculations, please provide the numerical data used in the spacing calculation of Room 141G.

 was used for the spacing calculation. The area of the survey unit was the area of the floor and two meters up the walls. The survey units were designed using a minimum sample points of 17 as a level of conservatism.

4. For clarification please explain the difference between the minimum number of 11 sample locations calculated using MARSSIM Equation 5-2 on page 22 of the Final Status Survey Report and the value of 14 Beta Locations Required as found in the Relative Shift Statistics table in Appendix E.

11 sample locations was the calculated minimum before adding 20% as stated in the MARSSIM handbook section 5.5.2.2. “The number of data points should be increased by 20% and rounded up, over the values calculated using

equation 5-1 to obtain sufficient data points to attain the desired power level with the statistical test and allow for possible lost or unusable data. “

Thank you,  
Briana DeBoer

*Briana DeBoer*

Health Physicist

Decommissioning, ISFSI, and Reactor Health Physics Branch

USNRC Region 1 DNMS

(610) 337-5370