

From: [Ullrich, Elizabeth](#)
To: [Western, Evan](#)
Cc: [Gaskins, Farrah](#); [DeFrancisco, Anne](#)
Subject: RE: Cardinal Health 2018 Program Review
Date: Thursday, September 26, 2019 6:34:00 AM
Attachments: [image001.png](#)

Thanks you, I will review it later today. Were you able to determine why the 2017 total release was 2.2 Ci F18, and 2018 was 12 Ci? That seems a very large increase, and I don't think that the production runs increased by a factor of 6.

Also...since the alarm function was not working that would identify if Hartford released concentrations greater than 1 E-7 uCi/ml F18 in a 24-hour period, can you look at the maximum "spike" release in 2018 and 2019 to see if any release was large enough to require investigation at your internal level? Also, can you demonstrate that the releases in 2018 did not exceed the NRC limit of 1 E-7 uCi/ml annually (the year 12 curies were released) and if that was/might be exceeded in 2019? There were a lot of hot kit exchanges and other chemistry unit failures, I am not sure if this would increase your releases in 2019.

Betsy

From: Western, Evan <evan.western@cardinalhealth.com>
Sent: Wednesday, September 25, 2019 12:55 PM
To: Ullrich, Elizabeth <Elizabeth.Ullrich@nrc.gov>
Subject: [External_Sender] Cardinal Health 2018 Program Review

Ms. Ullrich,

Please see attached the 2018 annual program review per our discussions in the closeout of today's inspection in East Hartford. Let me know if you have any questions.

Sincerely,
Evan Western



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