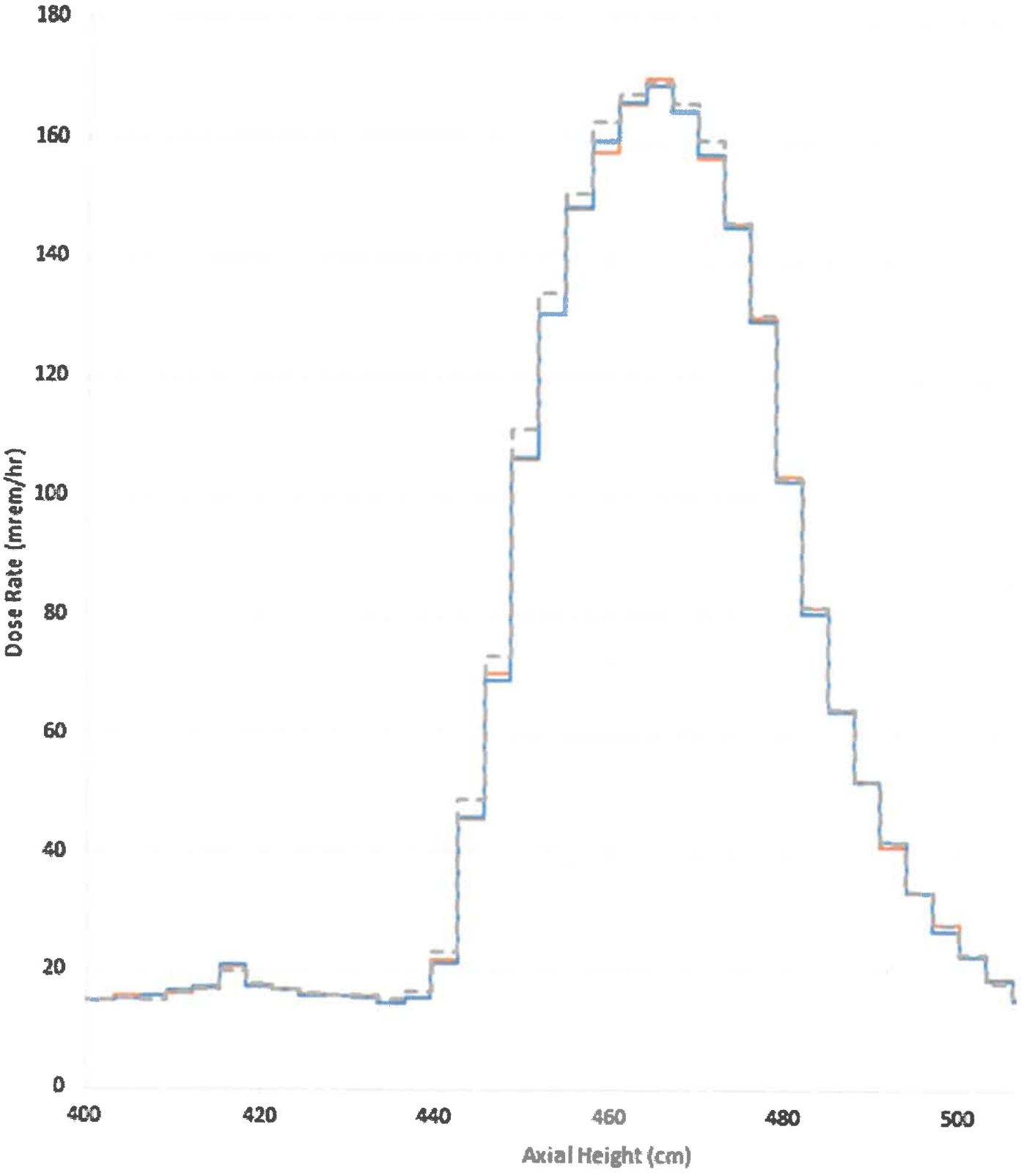
Gallardy, Vivian

From: Fowler, Samuel W. <sfowler@nacintl.com>
Sent: Thursday, January 25, 2018 2:27 PM
To: White, Bernard; Call, Michel
Cc: Carver, George; Chapman, Deborah R.; Baldner, Heath M.
Subject: [External_Sender] MAGT Neutron Shield Tolerance

Bernie,

After our January 10th, 2018 teleconference we said we would provide two things. One, a shielding evaluation showing the effects of a reduced axial height for the neutron shield compared to a nominal lead height. Two, we would also compare the reduced axial height of the neutron shield to the previous evaluation we did for a reduced axial height of the lead. Here are the results of reducing the neutron shield axial height by 0.13". The plot below compares this to not only the nominal lead height but also to the reduced axial lead height (i.e., the tolerance evaluation we provided in an earlier email). As you can see, adjusting the neutron shield position does shift the curve somewhat but the peak dose rate is still bounded by the nominal evaluation.



Wren Fowler
Director, Licensing
NAC International Inc.
Office: 678.328.1236
Email: sfowler@nacintl.com