

**NORTHROP GRUMMAN**

Northrop Grumman Systems Corporation  
Mailstop 1401  
Post Office Box 1693  
Baltimore, Maryland 21203

January 15, 2018

ATTN: Document Control Desk/Exempt Distribution  
Director, Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

**RE: 2017 Product Transfer Report  
Northrop Grumman Systems Corporation  
License Number: 19-00428-11E**

Please find enclosed, the 2017 Product Transfer Report for the period of January 1, 2017 to December 31, 2017, for Northrop Grumman Systems Corporation (License # 19-00428-11E).

This enclosed report is prepared in accordance with 10 CFR 32.16. The products listed in the report are transferred for use under 10 CFR 30.15(a)(8)(i) and (vi) and also per Maryland Radioactive Material License # MD-03-005-03.

Should you have any questions please feel free to contact me at 410-765-4085.

Sincerely,

*Alison L. Woudstra*

Alison L. Woudstra  
Radiation Safety Officer  
Northrop Grumman Systems Corporation

Cert/RR: 7015 0640 0007 6200 4011

NMSS03

**NORTHROP GRUMMAN SYSTEMS CORPORATION  
2017 PRODUCT TRANSFER REPORT  
LICENSE #19-00428-11E**

(January 1, 2017 – December 31, 2017)

<b>Assembly Part Number</b>	<b># of Units</b>	<b># of Tritium Rods per Unit</b>	<b>Total # of Rods</b>	<b>Tritium Activity per Rod (mCi)</b>	<b>Total Tritium Activity (Ci)</b>	<b># of Pm147 Tubes per Unit</b>	<b>Total # of Pm147 Tubes</b>	<b>Pm 147 Per Tube (µCi)</b>	<b>Total Pm147 Activity (mCi)</b>
436R178G01	23	0	0	0	0.000	1	23	12	0.276
561R140H01/H03	2	1	2	142	0.284	0	0	0	0.000
561R140H04	17	0	0	0	0.000	1	17	30	0.510
583R534H10	0	0	0	0	0.000	1	0	28	0.000
588R499H01	0	1	0	110	0.000	1	0	4	0.000
346R035H01	0	1	0	142	0.000	0	0	0	0.000
346R035H03/H04	45	0	0	0	0.000	1	45	30	1.350
581R815H08	0	1	0	50	0.000	4	0	4	0.000
561R518H01/H02	0	2	0	61	0.000	0	0	0	0.000
6867277-1	18	0	0	0	0.000	1	18	30	0.540
541R579G01	0	1	0	110	0.000	0	0	0	0.000