



UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

DIVISION OF
CORPORATION FINANCE

Mail Stop 4546

July 27, 2017

Via E-mail

Mr. Stefano Buono
Chief Executive Officer
Advanced Accelerator Applications S.A.
20 rue Diesel
01630 Saint Genis
Pouilly, France

**Re: Advanced Accelerator Applications S.A.
Form 20-F for Fiscal Year Ended December 31, 2016
Filed March 29, 2017
File No. 001-36826**

Dear Mr. Buono:

We have completed our review of your filing. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Sincerely,

/s/ Angela M. Connell

Angela M. Connell
Accounting Branch Chief
Office of Healthcare and Insurance