December 16, 2010

Mr. Robin DeLaBarre
Office of Nuclear Energy,
Safety & Security Affairs, Room 3320 HST
Bureau of International Security
& Nonproliferation
U.S. Department of State
2201 C Street, NW
Washington, D.C. 20520

Dear Mr. DeLaBarre:

Enclosed is an application (XMAT414), dated November 30, 2010, recently received by the U.S. Nuclear Regulatory Commission (NRC), from Concert Pharmaceuticals, Inc., for the export of deuterium oxide (D_2O - heavy water) to China for the non-nuclear end-use of producing an active pharmaceutical ingredient (API) known as CTP-499, which incorporates heavy water as the source of deuterium to achieve the hydrogen-deuterium exchange. An explanation of the manufacturing and recycling process for the heavy water is provided on page 3 of the application as well as in attachments A, B, and C provided by the applicant.

Before taking action on this request, we would appreciate your views, in accordance with established procedures and from the overall perspective of the Executive Branch, as to whether the requested export meets the applicable criteria in the Atomic energy Act of 1954, as amended.

Sincerely,

/RA/

Janice E. Owens, Branch Chief
Export Controls and International Organizations
Office of International Programs

Enclosure:
Application Dated 11/30/2010
XMAT414 - China
Docket Number 11005905

cc w/enclosure:
S. Aguilar, NRC/NMSS
R. Goorevich, DOE/NNSA
J. Norles, DOE/NNSA
S. Clagett, DOC
D. McDarby, DTRA
S. Oehlbert, DOE/NNSA
P. Dessaules, DOE/NMMSS
C. Baugues, DHS/CBP
W. Witter, DTRA

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DATE	12/16/10	12/16/10	12/16/10

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