

February 17, 200

Mr. Tawfik M. Raby  
Chairman, N-17  
Building 235, Room A141  
National Institute of Standards  
and Technology  
Gaithersburg, MD 20899

Dear Mr. Raby:

SUBJECT: N-17 COMMITTEE BALLOTS

Enclosed are my ballots for ANS-19.1, "Nuclear Data Sets for Reactor Design Calculations" and ANS-19.3.4, "The Determination of Thermal Energy Deposition Rates in Nuclear Reactors." I have voted "approved with comments." Furthermore, I have reviewed the Scopes of the standards, and have no objections.

If you have any questions concerning these ballots, please contact Al Adams at 301-415-1127 or myself at 301-415-1168.

Sincerely,

*/RA/*

Ledyard B. Marsh, Chief  
Events Assessment, Generic Communications and  
Non-Power Reactors Branch  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

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NRC Comments on ANS-19.3.4  
The Determination of Thermal Energy Deposition  
Rates in Nuclear Reactors

1. In Section 5.1, Energy Deposition, General, a clarification was added for the heat deposition from x- and  $\gamma$ -ray absorption in reactor components from  $(n,\alpha)$  and neutron absorption reactions. We agree with the proposed change, however, the wording should be changed for clarification and to better represent physical processes to read as follows:

However, in some reactor components, thermal energy deposition may be dominated by the contribution from photons generated from  $(n,\alpha)$  and  $(n,\gamma)$  reactions.

NRC Comments on ANS 19.1  
Nuclear Data Sets for Reactor Design Calculations

1. On page 4, Column 1, line 5 from the top; Reference [4] was changed to [4, 16]. Accordingly, the wording of the preceding two lines should be changed, from "...in accordance with Koppel and Houston" to "...in accordance with Koppel and Houston, and Mc Farlane."