

October 15, 1990

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

Dear Mr. Raby:

SUBJECT: ANSI N-17 COMMITTEE BALLOT

Enclosed is my ballot for ANS 6.1.1 - "Neutron and Gamma-Ray Fluence-to-Dose Factors." I have voted "approved with comments" and have included the required comments. Furthermore, I have reviewed the Scope, and have no objections.

Sincerely,

Original signed by:

Seymour H. Weiss, Director
Non-Power Reactor, Decommissioning and
Environmental Project Directorate
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

DISTRIBUTION

✓ Docket file
NRC or Local PDRs
PDNP r/f
DCrutchfield
WTravers
EHylton

AAdams

[SW LTR2 TRaby]

PDNP:EA
EHylton
10/15/90

PDNP:PM
AAdams
10/15/90

SW
PDNP:D
SWeiss
10/15/90

DFQ3
~~_____~~
11
Am-7
ANSI

9010240230 901015
PDR DRG EPSANS
PNU

NRC FILE CENTER COPY

00125

RIDS code change per
BDB



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

October 15, 1990

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

Dear Mr. Raby:

SUBJECT: ANS N-17 COMMITTEE BALLOT

Enclosed is my ballot for ANS 6-1.1 - "Neutron and Gamma-Ray Fluence-to-Dose Factors." I have voted "approved with comments" and have included the required comments. Furthermore, I have reviewed the Scope, and have no objections.

Sincerely,

A handwritten signature in cursive script that reads "Seymour H. Weiss".

Seymour H. Weiss, Director
Non-Power Reactor, Decommissioning and
Environmental Project Directorate
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

ANSI N17 COMMITTEE BALLOT

DOCUMENT: ANS-6.1.1 "Neutron and Gamma-Ray Fluence-to-Dose Factors"

BALLOT DUE: October 15, 1990

_____ Approved

X _____ Approved with Comments

_____ Not Approved

_____ Not Voting

Comments: (Note - all "Approved with Comments" and "Not Approved" ballots must include comments.)

The conversion factors and the standard generally seem appropriate. We are concerned with the discussion of the dose equivalent h_F . The dose equivalent is the quantity of concern for regulatory and radiation protection purposes. It is not closely related to biological effects. There is serious concern in some quarters that the use of the dose equivalent unit will render human data unsuitable for use in epidemiological studies. The dose weighting factors are no more than quasi-scientific guesses. It is noteworthy that the weighting factors are being changed in the next ICRP publication. The significance for the conversion factors is not great but the words should be changed to avoid the implication that there is more to the dose equivalent than a committee consensus.

Return ballot to:

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

Seymour H. Weiss
Signature

U.S. Nuclear Regulatory Commission
Representing _____
October 15, 1990
Date _____