

Update on Guidance for Neutron Dose Methods

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RP Task Team on Neutron Quality Factor

This RP Task Team developed recommendations in 2008 & 2009 on neutron dose methods that are both compliant with the modified requirements in 10CFR835 and consistent with ICRP 60 recommendation

The Task Team was later asked to provide guidance on assessing conservatism of measured neutron dose against Effective Dose as recommended by ICRP 60

These actions have been reported on to the RP Subgroup (October 2009) and are on the EFCOG web site

Summary of Recommendations & Guidance

- **Measure Neutron Dose as Hp(10) at 0 degrees**
- **Calibrate Neutron Dose Instruments to H*(10)**
- **Use Hp(10) at 0 degrees for facility design dose calculations**
- **Only those facilities with very low energy or very high energy neutron spectra may have to assess whether their spectra are conservative relative to E**

Guidance Document on Neutron Dose Methods

- The issue has been what format this document should follow (EFCOG document, DOE document, etc.)
- The Task Team was asked to determine if it could be published as a special edition Health Physics Society publication
 - Communications with the HPS editors indicate it can be, but must meet HPS format specifications, which is a significant undertaking for a document which includes much data

Path Forward

- **Guidance document being revised to meet HPS publication format requirements**
- **Plans are to submit it for publication as a special HPS report**