Practical Considerations of Conversion by the US Military

Adopting the International System of Units for Radiation Measurements in the United States

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DOD Occupational Ionizing Radiation Protection Program

- DOD Instruction number 6055.08 dated 2009
  - References 10 CFR part 20
  - Uses traditional units and SI in parenthesis.

DOD Joint Operational Doctrine

- Joint Publication 3-11 dated 2013
  - Uses SI units and conversion factors
  - Primarily uses centigray for easily converting to rad

Service Guidance

- Air Force
  - AIR FORCE INSTRUCTION 48-148 2014
  - Uses SI units and traditional in parenthesis
- Army
  - DA Pamphlet 385-24 2015
  - Uses traditional units and SI in parenthesis
- Navy / Marines
  - NAVMED P-5055 2011
  - Uses traditional units and SI in parenthesis

Service Personal Dosimetry

- Three Independent Dosimetry Centers
- All report doses in traditional units per CFR

Radiation Detection

- Current equipment
  - Some display in both units or just traditional
  - Some display in only SI units
- Future joint equipment
  - For use in 2018 and beyond
  - Ability to display in both units

Training

- Joint Medical training uses both
- Army and Air Force operational training uses both
- Navy uses traditional only

OPERATION TOMODACHI

- Response to Fukushima incident
- Documented issue in after action reports
- Recommendation to use SI units only in future operations
- Similar and related issue with the use of micro- and milli- prefixes

Questions?