



RIC 2010

Radiation Protection

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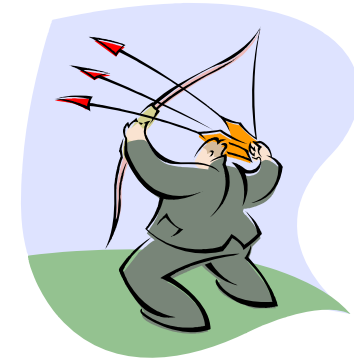
FSME/NRC

March 10, 2010



Background

- **ICRP Recommendations published December 2007**
- **NRC Staff Paper to Commission in December 2008**
- **Commission approved staff recommendation to engage stakeholders and initiate development of technical basis materials on April 2, 2009**



Objective

- **Objective is to explore implications, as appropriate and where scientifically justified, of greater alignment with ICRP Publication 103.**
- **Given adequate protection, discussion is to focus on discerning the benefits and burdens associated with revising the radiation protection regulatory framework**



Outreach Activities

- **Web Site publicly available**
- **FRN published inviting inputs (72 FR 32198)**
- **Dedicated web address for comments**
- **FSME Newsletter (No. 09-1)**
- **Press Release (No. 09-078)**
- **All State Letter (FSME-09-025)**





Outreach Activities



- **Presentations to CRCPD, OAS, SNM, HPS, FCXT, ACNP, National SLO Conference, NEI, ASNC, ACMUI, ACRS, AAPM, FL HPS/AAPM Fall Joint Meeting, NASA, 5th Asian Conference on the Evolution of the System of Radiation Protection, ISOE/EPRI ALARA Conference.**



Future Plans



- **Scheduled presentations to:**
 - **CRCPD, April, 2010**
 - **AAPM, July, 2010**
 - **NEI HP Forum, July 2010**
- **Planning started for facilitated round tables in the summer, 2010**



What Have We Heard?

- **Wide range of views on major topics**
- **General support for increasing alignment with international recommendations and other national regulations to improve consistency and trans-boundary considerations**
- **General agreement that scientific information should be updated**

What Have We Heard?

- **Effective Dose**
 - Supportive of update
 - Questions on application of current rule
 - Impact of methodology on ability to comply with options for dose limits
- **Numerical Values**
 - Supportive of update
 - Recognition of schedule



What Have We Heard?



- **Occupational Dose Limits**
 - Many want limit to stay at 50 mSv/yr (5 rem)
 - A few comments to reduce limit
 - Certain groups of licensees continue to have individuals above 20 mSv/yr (2 rem)
 - Preference by some stakeholders to keep higher limit as legal boundary, and increase ALARA and perhaps constraints to reduce doses

What Have We Heard?

- **Dose Limits for Embryo/Fetus**
 - Mixed feedback
 - Lack of data
 - Some options challenge limits of detection for monitoring
 - Nuclear Medicine labs prefer current limit for operational reasons





What Have We Heard?

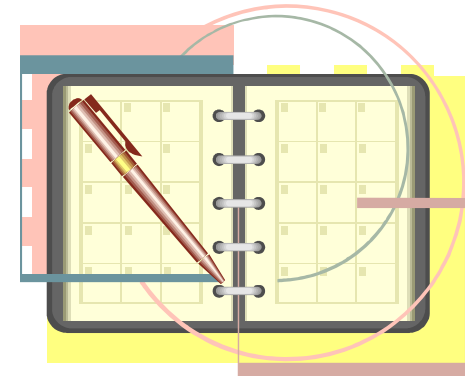
- **Use of Constraints for ALARA planning**
 - Constraints not well understood
 - Questions on inspection, compliance, reporting
 - Detail of how a requirement might be constructed is critical to understanding impacts
 - Consideration of what justifications would be appropriate for exceeding a constraint, and what actions would be needed
 - Some stakeholders leaning to endorsement of constraint, and setting a value, to provide flexibility

Planned exposure situations

Dose limit

Dose constraint

Optimization



Schedule

- **2010: Initiate detailed discussions, including possible workshops, on options and impacts**
- **Technical Basis support for data needs**
- **Ongoing interactions with Federal Agencies and State Agencies**
- **Monitoring of international developments**



Questions ?

- Web pages

<http://www.nrc.gov/about-nrc/regulatory/rulemaking/opt-revise.html>

- Email Address: regs4rp@nrc.gov

