

TELECONFERENCE MEETING OF THE  
ADVISORY COMMITTEE ON THE  
MEDICAL USES OF ISOTOPES

December 10, 2014

**MEETING SUMMARY**

**PURPOSE**

To discuss the Advisory Committee on the Medical Uses of Isotopes (ACMUI) subcommittee report on the Advanced Notice for Public Rulemaking (ANPR) for Title 10 of the *Code of Federal Regulations* (10 CFR) Part 20.

**OUTCOME**

The subcommittee provided a draft report for discussion with the full Committee. Subcommittee members included: Mr. Francis Costello; Dr. Vasken Dilsizian; Dr. Susan Langhorst (chair); and Dr. Pat Zanzonico. During the meeting, the Committee unanimously approved the draft report with minor clarifying modifications. The U.S. Nuclear Regulatory Commission (NRC) staff gained a better understanding of the views and opinions of the ACMUI. The final report will be submitted to the NRC staff, and the staff will consider the ACMUI's comments in its continuing effort to make 10 CFR Part 20 more useful, practical, and not overly burdensome on licensees, while maintaining public health and safety.

A full transcript and handout for the ACMUI teleconference meeting can be found on NRC's public website at <http://www.nrc.gov/reading-rm/doc-collections/acmui/meetings/>.

**AGENDA TOPIC**

Discuss the ACMUI subcommittee report on the ANPR for 10 CFR Part 20

**SUMMARY**

The ACMUI ANPR for 10 CFR Part 20 Subcommittee reviewed the ANPR for 10 CFR Part 20 that was published in the *Federal Register* on July 25, 2014. The subcommittee evaluated the associated six issue papers and provided a draft report for the Committee's consideration.

The Committee discussed the following:

- A potential update to 10 CFR Part 20 to align with the International Commission on Radiological Protection Publication (ICRP) 103 methodology and terminology;
- A potential revision to the occupational dose limit for the lens of the eye;
- A potential revision to the dose limit for the embryo/fetus of a declared pregnant occupational worker;
- A potential revision to include specific individual protection (As Low As Reasonably Achievable Planning and implementation);
- A potential revision to metrication (units of radiation exposure and dose) to include dual units with SI units being shown first; and
- A potential expansion of the number of license categories required to submit annual occupational exposure reports to the NRC.

## RECOMMENDATIONS AND ACTIONS

The subcommittee discussed the following recommendations in the draft subcommittee report:

1. The ACMUI recommended updating 10 CFR Part 20 to align with ICRP 103 methodology and terminology.
2. The ACMUI recommended changing the occupational dose limit for the lens of the eye to 50 mSv (5 rem).
3. The ACMUI did not recommend the change of the dose limit for the embryo/fetus of a declared pregnant occupational worker from 5 mSv (500 mrem) to 1 mSv (100 mrem).
4. The ACMUI did not recommend revising or adding regulatory requirements regarding a licensee's ALARA program.
5. The ACMUI recommended the change to use of SI units in radiation protection regulations, but recognizes the need by some licensees to have a transition period to move from the use of conventional units.
6. The ACMUI did not recommend the expansion of additional categories of licensees that should be required to submit annual occupational exposure reports under 10 CFR 20.2206(a).
7. The ACMUI recommended NRC use a similar implementation plan as was used for the last significant change of 10 CFR Part 20 in 1991 where the licensee could choose to implement the regulatory change anytime within a given time frame. The ACMUI recommends a time frame of at least three years to allow implementation of procedure, training, hardware, and software changes needed to implement the new regulatory requirements.

All of the recommendations above were unanimously approved by the full ACMUI.

The Draft ANPR for 10 CFR Part 20 Report (ML14328A199) was unanimously approved by the full ACMUI with the caveat that all modifications discussed during the teleconference would be incorporated before submission to NRC staff.

Attachment:  
Meeting Attendees

## MEETING ATTENDEES

### ACMUI

Philip O. Alderson, M.D.	Member
Francis M. Costello	Member
Vasken Dilsizian, M.D.	Member
Milton S. Guiberteau, M.D.	Vice Chairman
Susan M. Langhorst, Ph.D.	Member
Steven R. Mattmuller	Member
Michael D. O'Hara, Ph.D.	Member
Christopher J. Palestro, M.D.	Member
John H. Suh, M.D.	Member
Bruce R. Thomadsen Ph.D.	Chairman
Laura M. Weil	Member
James S. Welsh, M.D.	Member
Pat B. Zanzonico, Ph.D	Member

### NRC

Catherine Haney	Director, Office of Nuclear Material Safety and Safeguards (NMSS)
Pamela Henderson	Deputy Director, Division of Materials Safety, States, Tribal and Rulemaking Programs (MSTR)
Christian Einberg	Special Assistant, MSTR
Michael Fuller	Designated Federal Officer
Sophie Holiday	Alternate Designated Federal Officer and ACMUI Coordinator
Maryann Abogunde	NMSS
Andrew Carrera	NMSS
Susan Chidakel	OGC
Ashley Cockerham	NMSS
Jackie Cook	Region IV
Said Daibes, Ph.D.	NMSS
Sara Forster	Region III
Sandra Gabriel, Ph.D.	NMSS
Latischa Hanson	Region IV
Vincent Holahan, Ph.D.	NMSS
Cardelia Maupin	NMSS
Patricia Pelke	Region III
Andrew Pessin	OGC
Gretchen Rivera-Capella	NMSS

### MEMBERS OF THE PUBLIC

William Davidson	University of Pennsylvania
Gloria Romanelli	American College of Radiology (ACR)
Cindy Tomlinson	American Society for Radiation Oncology (ASTRO)