



NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS

President: Kathryn D. Held.; *Senior Vice President:* Jerrold T. Bushberg; *Director of Operations:* Laura Atwell
7910 Woodmont Avenue, Suite 400, Bethesda, Maryland 20814-3095 Voice: (301) 657-2652 Fax: (301) 560-8005

AGENDA

Meeting of Program Area Committee 2 Operational Radiation Safety

Teleconference #1 – April 2, 2020 2:00 pm EDT/11:00 am PDT

2:00 pm EDT	Update roster; request/discussion of new PAC 2 members	Pryor
2:10 pm	Status of SC 2-8 draft -discussion and resolution of general comments	All
4:00 pm	Adjourn	

Attendees: Chris Donahue, Eric Goldin, Barbara Hamrick, Willie Harris, Mike Littleton, Dave Myers, Kathy Pryor, Kathy Shingleton, Debra Scroggs, Glenn Sturchio, Josh Walkowicz, Jim Willison, Jim Yusko.
Absent: Ed Bailey, John Poston. **Guest:** Kathy Held.

Teleconference #2 – April 8, 2020 3:00 pm EDT/12:00 pm PDT

3:00 pm	SC 2-8 draft – continue discussion and resolution of general comments	All
3:30 pm	13.0 - Intro to Appendices	Myers
	Appendix 13.1 – medical health physics programs	Sturchio
	Appendix 13.2 – large accelerator facilities	Pryor
	Appendix 13.3 – University/Research Facilities	Hamrick
	Appendix 13.4 – Industrial Radiography	Littleton
	Appendix 13.6 – Power Reactors	Harris
	Appendix 13.7– Decommissioning/Clean-up Sites	Donahue
	Appendix 13.8 – Biotech Production Facilities	Scroggs
	Appendix 13.9 – Portable and Fixed Gauge Users	Walkowicz
5:00 pm	Adjourn	

Attendees: Chris Donahue, Eric Goldin, Barbara Hamrick, Willie Harris, Mike Littleton, Dave Myers, Kathy Pryor, Kathy Shingleton, Debra Scroggs, Glenn Sturchio, Josh Walkowicz, Jim Willison (first 30 minutes), Jim Yusko. **Absent:** Ed Bailey, John Poston.

**Teleconference #3 – April 16, 2020
11:00 am EDT / 8:00 am PDT**

11:00 am	Appendix 13.10 – Oil and Gas Industry	Yusko/Bailey
	Appendix 13.11 – National Laboratories	Shingleton
11:30 am	Feedback on changes to main report	all
12:00 pm	Potential peer/expert reviewers – SC 2-8	Pryor/all
12:15 pm	Summary of assignments/path forward	Pryor
12:30 pm	Adjourn	

Attendees: Chris Donahue, Eric Goldin, Barbara Hamrick, Willie Harris, Mike Littleton, Dave Myers, Kathy Pryor, Kathy Shingleton, Debra Scroggs, Glenn Sturchio, Josh Walkowicz, Jim Willison, Jim Yusko. **Absent:** Ed Bailey, John Poston.

This series of three web teleconferences replaced the annual meeting of PAC 2 that was planned for March 22, 2020 in Bethesda, Maryland.

The PAC 2 roster was emailed out to members on March 31st and a few corrections were noted. It was suggested that we list major areas of expertise for each member on the roster in order to ensure a good cross-section of disciplines on the Committee.

President Kathy Held participated in the first teleconference on April 2nd to answer any questions that the PAC 2 members had. She noted that an update to the Council Handbook had been published with more information on the operation and responsibilities of scientific committees. She also requested that the PACs send ideas for items to put on the NCRP’s social media accounts. Angela Shogren has been preparing a calendar for this effort on behalf of PAC 7.

The Committee discussed the need to identify some new PAC 2 members for the future. New members need to understand the expectation for actively participating in report writing. Kathy Pryor requested that any candidate names be forwarded to her.

Kathy P. informed the Committee that Kathy Held had approved the three Technical Advisors to SC 2-8, each of whom had assisted in the preparation of content for the draft report:

- Frazier Bronson, subject matter expert (SME) on instrumentation
- Liz Brackett, SME on internal dosimetry
- Don Cossairt, SME on accelerator facilities

The Committee discussed the use of the term “should” in the draft report. The terms “shall,” “should” and “may” have specific definitions relative to NCRP recommendations. The draft does not use the term “shall” unless it is quoted from a referenced document. The Council Handbook contains a statement (page 55) regarding the use of these terms, and states that the word “should” is italicized in formal NCRP recommendations. This draft report will likely not contain any new formal NCRP recommendations. The Committee discussed that the use of the word “should” could be minimized to the extent practicable, but that it would not be completely avoided. In addition, the Council Handbook statement would be added to Section 1.2 of the draft report.

The Committee agreed that the following terminology would be used:

- Radiation worker (to be consistent with Report No. 134)
- Radiation safety technician – add to the Glossary, replaces health physics technician and radiological control technician
- Radiation safety culture – to be considered interchangeable with the term radiation protection culture (from Report No. 180) and safety culture (term used by the Nuclear Regulatory Commission)

Some of the major items discussed during the web conferences included:

- Section 5.3.1.4 on Criteria for the Establishment of Appropriate Workplaces for Radioactive Material Use: Dave Myers discussed the HotSpot code with Steve Homann (the author) and the possibility of updating the codes with SI units based on a maximum dose consequence of 1 mSv. Dave has already started rewriting this section to include the update.
- Section 6.10 on Radwaste Management: The Committee agreed to exclude high level waste, transuranic wastes, greater than Class C wastes and NORM as being outside the scope of this report.
- Section 9 on Onsite and Offsite Monitoring: reorder the sections to more closely mirror the original Report No. 127.
- Section 10, Quality Assurance: reorder the sections so that the records section is last (new 10.5). Dave Myers reviewed the primary reference for this section, Report No. 114 and determined that it was still applicable. Report No. 114 was published in 1992. ANSI/HPS N13.6-2010 was added to supplement this reference.
- Numbering of the appendices on specific operational settings: These may need to be renumbered as Appendices B.1 through B.11 (preferred), or as B through M. Kathy S and Kathy P will discuss this with Laura Atwell and Cindy O’Brien on a separate call.
- Most of the appendices have not been edited yet for format. Check for use of SI units in all of the appendices.
- Chris Donahue agreed to contact Don Cossairt to discuss expanding the scope of the appendix on accelerator facilities.

- Josh W agreed to draft up an appendix on irradiator facilities (instead of sterilization facilities).
- Appendix on Energy Exploration (Oil and Gas): add 10 CFR 39 and NUREG-1556, Vol. 14 as references; check on the IAEA category for well-logging sources.

A number of other comments were captured directly into the draft report (Revision 5) during the web conferences.

Peer/SME reviewers for SC 2-8:

The Committee discussed potential reviewers for the peer/SME review of the draft report. The suggestions included the following:

- General report – Ken Kase, Sue Langhorst, Cyndi Jones, Bill Irwin, Mike Lewandowski. Paul Hoover, Linda Kroger, Russ Meyer.
- Internal dosimetry – Gene Carbaugh, Tom LeBone.
- External dosimetry – Sandy Perle, Craig Yoder, Mike Lantz.
- Instrumentation – PAC 6 representative
- Environmental/effluent monitoring – PAC 5 representative, Helen Grogan.

Note that the above list includes extra names in the event that some may not be able to perform the review. We expect to use five or six peer reviewers.

Path Forward:

- Revise appendices and send to Kathy P/Kathy S - **5/4/20 (all)**
- Send edits on main report to Kathy S – **5/4/20 (all)**
- Contact SME reviewers – **5/22/20 (Kathy P)**
- Incorporate appendices and edits into main draft – **5/31/20 (Kathy S)**
- Send out draft report to PAC 2, SME reviewers – **6/1/20 (Kathy P)**
- Receive comments, distribute to authors to resolve – **6/30/20 (Kathy P)**
- Authors provide comment resolution; revise sections and return to Kathy P/Kathy S – **8/31/20 (all)**
- Schedule and hold web conference to discuss any issues – **early August.**
- Submit draft to Cindy/Laura for Council review - **9/11/20.**