



AGENDA

**Meeting of Program Area Committee 2
Operational Radiation Safety
Saturday, July 12, 2014; 8:00 AM
Baltimore Convention Center, Rm 323
Baltimore, Maryland**

8:00 AM	Continental breakfast	All
8:30	Welcome and opening remarks	Pryor
8:45	Status of SC 2-6, Radiation Safety Aspects of Nanotechnology	Pryor
9:00	SC 2-7, Radiation Safety Aspects of Sealed Radioactive Sources – Overall structure of document	All
10:00	Review of report sections: Section 1 - Intro, 2.1 and 2.2 – sealed source definition and types	Pryor
	Section 2.3 – regulatory classification, Appendix B	Berger
	Section 2.4 – security classification	Bailey
	Section 3 – Fabrication/manufacturing	Berger
	Section 4 – Acquisition/receipt, Appendix C - notifications	Goldin
12:00	Lunch	
1:00 PM	Continue discussion of draft sections Section 5 – Use of sealed sources; 5.1 – general considerations and 5.2 - storage	All Pryor

Section 5.3 – Special Considerations	Sturchio, Goldin, Pryor
Section 6 – Transportation	Yusko
Section 7 – Testing/Inspection	Goldin
Section 8 - Disposal	Yusko
Section 9 - Emergency Preparedness, Appendix D	Walkowicz, Berger
Section 10 – lessons learned	Walkowicz, Berger
Appendix A – sealed source program checklist	Walkowicz
3:00 Assignments and action items	Pryor
4:00 Adjourn	All

Attendees: Ed Bailey, John Frazier, Eric Goldin, John Poston (in at 3:15 pm), Kathy Pryor, Glenn Sturchio, Josh Walkowicz, Jim Yusko. Absent: Carol Berger, Dave Myers.

Kathy Pryor provided a brief overview of the status of SC 2-6, Radiation Safety Aspects of Nanotechnology. The committee is working on the draft report and making progress. They continue to hold teleconferences on a monthly basis, and anticipate having a draft ready for PAC-2 and peer review later this year.

The committee conducted a review of the draft SC 2-7 report. The committee agreed that the general structure of the report was satisfactory, but that some of the more detailed sections needed to be summarized, with the details relocated to appendices. There were a number of areas of redundancy that would need to be resolved as well.

General comments:

- Recommendations in the report should be denoted by the word “should,” while regulatory requirements should be denoted by the words “must” or “is/are required.”
- Recommendations will be summarized in the Executive Summary (to be prepared later).
- Sealed radioactive sources should be referred to as “sealed radioactive sources” or “sealed sources.”

- When we refer to the NRC in the report, we should also include the Agreement States.

Introduction:

- Glenn will provide wording on microspheres and other brachytherapy sources, stating that they are outside of the scope of this report.
- Example procedures will need to be developed for maintaining the sealed source inventory [Eric], period inspection and leak testing [Glenn], and receiving and shipping [Eric]
- We will need to prepare a Glossary, and we need to define a “temporary job site” and “person.”

Section 2:

- Section 2.2 needs to be rewritten as “typical applications of sealed sources and devices” and presented as a short bulleted list/text. Summarize the text on typical applications and refer to Section 5 for more information on the specific types of sealed sources. Josh will prepare some brief text and a set of schematic drawings of the basic principles of operation for different applications of sealed sources, which will be placed in an appendix. John Frazier will obtain photos of specific types of sources/devices and will include them in Section 5.
- Section 2.3 and 2.4 need to be combined and reconciled. The committee discussed the issue of recommending that the regulations eliminate generally licensed sources/devices as a category, and specifically license any sealed source that falls in Categories 1 through 4. This recommendation could have significant impacts on both the NRC and agreement states. Ed Bailey will work on combining the two sections, including D values for all 5 categories and moving the tables of D values into an appendix.
- We need to check to see if NCRP has provided any other security-related recommendations in other reports in order to be consistent with them.

Section 3:

- Need to rewrite Section 3 for a “user audience” as opposed to the sealed source/device manufacturers. The “should” statements need to be rewritten as statements of fact/requirement. The sections should be summarized and written from the user’s perspective. All of the sub-sections could probably be combined into a single section as separate paragraphs.

Section 4:

- Consider having one subsection on Acquisition and one on Receipt Inspections. Can combine sections 4.2 – 4.6 into one section. Section 4.7 on inventory requirements could be broken out as a separate section, since it includes initial inventory, maintenance and removal from the inventory.
- Section on missing sources and notifications could be moved to Appendix C and summarized in Section 4 and 7. Typically the inventory is updated/verified when the sealed source is inspected and leak tested.

Other Items – Kathy agreed to send the updated draft out for the committee's use by July 31, 2014. We will ask Laura Atwell's assistance in scheduling a series of 1 hour teleconferences to review the remaining sections of the report.

Action Items:

- Kathy Pryor –
 - Incorporate input received to date, plus any changes that we made during the meeting, into the most current draft, and send it to the group by July 31st.
 - Schedule series of teleconferences to review the remaining sections of the draft.
- Ed Bailey –
 - Combine sections 2.3 and 2.4 into a single section; add categories 4 and 5; recommendation on eliminating generally licensed category and specifically licensing the sealed sources/devices. Move the tables of D values to an appendix.
- Glenn Sturchio –
 - Prepare text for the introduction covering microspheres and brachytherapy sources as being outside of the scope of the report.
 - Periodic inspection and leak testing procedure and documentation.
- Eric Goldin –
 - Procedure and documentation for maintaining sealed source inventories.
 - Procedure and documentation for receiving/shipping sealed sources.
 - Review and edit the current Appendix C – Notifications to Regulatory Authorities.
 - Rewrite Section 4 to have one subsection on Acquisition and one on Receipt Inspections (combine sections 4.2 – 4.6 into one section). Consider breaking



out Section 4.7 on inventory requirements as a separate section, since it includes initial inventory, maintenance and removal from the inventory.

- Move details on missing sources and notifications into Appendix C.
- Carol Berger –
 - Rewrite Section 3 from the perspective of what the user needs to know about design drawings, specifications, QA, etc. Streamline the section.
- Josh Walkowicz –
 - New appendix on typical applications of sealed sources/devices: Prepare brief text and a set of schematic drawings of the basic principles of operation for different applications of sealed sources.
- John Frazier –
 - Photos of types of sealed sources/devices for inclusion in section 5.
 - Add tracking requirements to section 5.4 on industrial uses.
- John Poston –
 - Research any NCRP recommendations on security-related topics to make sure that we are consistent with them.