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| **Reported by (Name):** | **Geoffrey S. Ibbott, Ph.D.** |
| **Organization:**  | **International Electrotechnical Commission** |
| **Position Title:** | **Convenor, 62C/Working Group 1, US Technical Advisor and Chair, 62C TAG** |
| **Activity:** | **Meeting of 62C TAG** |
| **Meeting Dates:** | **Sept 18-19, 2024** |
| **Meeting Location:** | **ASTRO Headquarters, Crystal City, VA** |
| **Payment $:** | **Travel expenses** |
| **Reasons for Attending or not Attending** | **Attended as chair of the TAG.** |
| **Issues from Previous Meetings or Year:** | **Several documents have been under review for some time.** |
| **General Description of Activities of the Organization and/or Meeting:** | **International standards development. Meeting was to review current documents and prepare for meeting of 62C/WG 1 to be held October 14-18, 2024.** |
| **Issues for AAPM:** | **None** |
| **Budget Request ($):** | **See annual budget** |

62C TAG minutes

September 18, 2024

* Welcome and housekeeping
* Adoption of the agenda and structuring the meeting days
* MISC:
* AAPM has a working group that mirrors the TAG - <https://www.aapm.org/org/structure/?committee_code=WGIEC>
* Connect with AAMI on 62A re: AI
* Brief reports:

**60050-880**, **Terminology** (Moyers)

* Moyers gave brief update
* TC 62 WG 4: Software Use in Healthcare. Producing 60050-880 which is now waiting for translating the CDV – Pam Gwynn is one of the contacts
* Very few radiation terms
* No action needed at this time
* Also producing 60050-881 which will contain the radiation terms. This is moving more slowly (bandwidth issue) but should move faster soon.

Update regarding 4th Ed **60601-2-44** and proposals from 62B/WG 30 (Ibbott)

* All standards in 60601 are safety standards, not performance standards
* This is a Part 2 standard which amends the 60601 standard to deal with CT scanners (62B)
* 62C expressed concern because there were aspects they felt 62B was not sufficiently concerned about – 62C had a clause added on safety equipment for CT scanners used in radiation therapy for Ed. 3
* N.B.: Ibbott met with Baus, Jakob and Tomida in London where a detailed recommendation to 62B/WG 30 was prepared. It was received positively by WG 30 Chair (Schäller). More discussion expected soon.

Discussion about **62C/926/AC**, request for further nominations for 62C chair

* No action. Decision expected at TC 62 meeting on 10/25.

**62C/922/Q**: decision to revise **IEC 60976** (We have already said yes.)

* 60977 is being withdrawn – the sample values were included in laws in some countries. Therefore these recommendations need to go away. Parts of the standard might be included in the 60976 revision
* US will identify experts to contribute to the revisions

**IEC 62083 Ed 3. TPS Safety**. 62C/920/CDV distributed by Jakob (Switzerland) in early August, with comments due November 22. Cohen, Moyers and Sutlief lead discussion, to be held remotely in October/November.

* First TC62 document using OSD
* Reach out to UL TAG Secretaries for OSD info [N.B.: Done. Most TAG members should have access to OSD now.]

**IEC 60601-2-64, E2, Light Ion Safety.** Tomida (Japan) distributed a draft FDIS that will be discussed in London, then submitted for publication. **Moyers and Kruse** lead discussion.

* Reviewed comments
* Discussed figures 4.3 and 4.4. Noted the original figure needs to be modified. Feeling that there isn’t a need for two figures
* 201.5.2 jumps
* [N.B.: our comments were discussed in London; FDIS was edited and is expected to be circulated soon.]

**IEC 60601-2-68 A1, IGRT Safety.**Jakob (Switzerland) has prepared a draft DFIS (to be distributed 9/10) that will be discussed in London, then submitted for publication. **Kim, Soni and Bova** lead discussion.

* FDIS will close after WG meeting
* There are mismatches that central office should have caught
* Appear to be changes from redline version to FDIS
* 6:30 in recording – contains the comments
* Comments: 7th paragraph should be removed because it is redundant
* Section 7.8/Note 101
* Discussed the color alerting in the standard
* [N.B.: These comments discussed informally in London. Our vote in favor was submitted before the deadline.]

**IEC 63321, IGRT performance.** 62C/923/CD and 62C/827a/CC have been distributed by Kowalski (Germany) for discussion in London. **Sutlief and Xiao** lead discussion.

* Doc in prelim stage/had to be restarted
* Should the doc be restarted?
* **ACTION:** TAG members with issues accessing OSD and/or without IEC logins should email Emily for assistance
* [N.B.: Discussion in London indicated the document still needs a lot of work. Many comments could not be reviewed. Kowalski will address as many comments as he can then work on others through virtual meetings before preparing a new draft.]

14.15-17.00 **IEC 60601-2-1. Equipment for UHDR Radiotherapy (PWI 62C-1).**  Fellici (Italy) has held remote meetings and prepared a recent draft for review in London. **Hsu and Whittum** lead discussion with **Cohen and Sutlief**. (120 with break for coffee)

- line 528 radiation detectors – interoperability issue (comments in the notes under line 528)

- dose per pulse basis

- current limits for stopping irradiation could exceed dose – change the limit based on pulse? Can they achieve the limits that are being set for safety

- can/cannot meet question + should/should not question

- dose rate varies so much – solution may need to be more than just timer – need to know why they can’t meet the current requirements before determining new solution

- many editorial comments/things need to be re-written

- line 3620

- line 853 – nomenclature unclear

- propose a revision of the sections with the numbers with discrepancy

[N.B.: These comments and many others were discussed in London. More work clearly needed. Fellici will schedule more virtual meetings.]

**IEC 60601-2-93, Equipment for Neutron Capture Therapy**. Compilation of comments is 62C/924/CC. A CD was distributed in June by Kumada (Japan) with comments due in early August (ours are included in the CC.)

* 112 comments submitted on the second CD, a number of which were editorial
* Reviewed substantive comments
* Comment form notes changes.
* N.B.: In London, the major concerns were discussed and resolved, and the working party plans to prepare a draft CDV to circulate for comments before the end of the year. If few comments, the CDV will be circulated in the Spring; if many comments, it will be discussed at the Spring WG 1 meeting.

**IEC 60601-2-92, Equipment for MR-Guided Radiotherapy.** 62C/918/CD was distributed by Sayeed (UK) in July; comments are due by 9/20.

* Geoff presented doc with redline comments
* Concept of the standard should be expanded: “MR-Guided Adaptive Radiotherapy” – suggestion to change title as noted – if not accepted, this could also be clarified in scope. Would also replace instances of IGRT throughout the doc with Adaptive Radiotherapy
* Numbering is off – missing clause 201.9.2.101 – was this whole clause removed?
* [N.B.] Discussion in London was limited due to Abdul Sayeed’s availability – he was required to attend several of the 62A working groups. However, most of our significant concerns were discussed. Ab intends to hold remote meetings soon to address the remaining comments, and then based on the number and complexity of the comments will plan either another CD or a CDV.