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| **Reported by (Name):** | **Geoffrey S. Ibbott, Ph.D.** |
| **Organization:** | **International Electrotechnical Commission** |
| **Position Title:** | **Convenor, Working Group 1; Chairman, Subcommittee 62C, Chairman US TAG** |
| **Activity:** | **Semi-annual meeting of Working Group 1** |
| **Meeting Dates:** | **October 1-3, 2012** |
| **Meeting Location:** | **London, England** |
| **Payment $:** | **Travel reimbursement** |
| **Reasons for Attending or not Attending** | **Attended to chair meeting of WG 1 and to represent the US medical physics community** |
| **Issues from Previous Meetings or Year:** | **See report** |
| **General Description of Activities of the Organization and/or Meeting:** | **See report** |
| **Issues for AAPM:** | **See report** |
| **Budget Request ($):** | **See budget request** |

**Meeting Report**

**IEC Subcommittee 62C, Working Group 1**

**London, England**

**October 1-3, 2012**

**Introduction**

The AAPM participates in the development of international standards and technical reports for the safety and performance of electrical equipment; specifically, equipment related to the delivery of radiation therapy. This is accomplished though a group called the U.S. Technical Advisory Group (U.S. TAG) consisting of representatives from ASTRO, ACR and AAPM as well as those in industry. This group advises the U.S. National Committee (USNC) of the International Electrotechnical Commission (IEC), a Committee of the American National Standards Institute. Since 1993, Geoffrey Ibbott, Ph.D has been USNC Technical Advisor, chair of the U.S. TAG, and a liaison between the U.S. TAG and the USNC. Since 2006, he has been chair of IEC subcommittee 62C. In 2011, Dr. Ibbott was elected Convenor of Working Group 1.

The IEC develops standards for the design of electrical equipment, and medical electrical equipment specifically is handled by its subcommittee 62C. Working Group 1 of 62C deals with equipment used for radiation therapy. These standards have immediate and far-reaching consequences on the design and operation of radiation therapy equipment. For example, the Working Group has published standards that set acceptable levels of leakage radiation, requirements for dosimetric safety and accuracy, and standards for parameters such as gantry angle conventions.

Dr. Ibbott represents the US radiation oncology community at meetings of IEC Working Group 1, Subcommittee 62C and Technical Committee 62. The membership of these committees is at least 50% manufacturers’ representatives, so maintaining a clinical medical physics presence is critical.

The complete agenda and a brief report of the meeting are below. Official reports from the meeting are not yet available. Several important items were discussed and will be reported on in the near future.

**Meeting Report**

Working Group 1 met October 1-3, 2012, although a subgroup met September 28-29 to work on the light-ion standards. This was one of the best-attended WG-1 meetings on record, with 28 representatives from ten countries in attendance. Countries represented included Belgium, Canada, China, Germany, Japan, Sweden, Switzerland, the UK, and the USA. However, as is often the case, the majority of attendees were representatives from industry.

1. Opening of the meeting, approval of the agenda and approval of the minutes of the previous meeting
   1. Minutes approved.
2. Reports from the Convenor and Secretary
   1. Regards: Gabi and Bernd
   2. Apologies: Steve Lillicrap
   3. Richard Mellish will retire from CEN at end of year.
   4. Amd1 to 3rd edition published, requires new references.
   5. Rejected the call for undated references in collateral standards, so will continue to use dated references. No discussion about particular standards, so will continue to use dated references
   6. CDV processing time shortened to 5 months. 2 months for French translation, 3 months for comment and vote. So if we move quickly we can distribute a CDV for vote ahead of Shanghai meeting.
   7. SMB concerns about length of development for some of our work. -17 ok but -64 has many comments, so we haven’t given new proposed CDV dates
   8. Inger-Lena noted that Amended compiled 60601-1 has been published.
   9. Alan Cohen: Joint IEC/ISO working group on robotics: Question – do we need a collateral standard for robotics in medicine? Appears mechanical hazards are similar, so discussion changed to autonomy.
3. Discussion of National Committee Comments to 2CD of 60601-2-64
   1. Agreed to change title to “Light ion beam medical equipment.”
   2. Definition of Essential Performance from 60601-1 Ed 3.1
   3. Cannot reference 62667 unless is an approved CDV, and cannot be a normative reference until published. OK to leave in introduction, using wording such as “an approved project in development…”
   4. Question about “bolus is avoided by recognizing that this is a customer supplied device, not part of the equipment. So it is treated just along with other customer supplied devices.
   5. Dealt with “isocenter” by defining “equipment reference point”.
   6. Lengthy discussion about remote access – developed new wording.
   7. All technical comments addressed, and most editorial comments handled. Appears to be in good shape. So next step is CDV. Working party will complete editing by end of October. Submit to Claus by Thursday 11/1.
4. Discussion of the working draft of IEC 62667
   1. Lengthy discussion of latest draft from Michael.
   2. Agreed to distribute as CD for comments for discussion in Shanghai.
   3. WG asked to submit comments and additional text to Michael by 11/1.
   4. Michael submit to Claus around 12/1.
   5. Allow 3-months review, so comments will be due around 3/15.
5. Status Update on 60601-2-11
   1. Claus has submitted FDIS to CO, has gone for French translation. A few editorial questions from CO. We can expect it to be published very soon.
6. Status Update on 60601-2-17
   1. Revisions were made, so Claus will send for French translation and preparation as FDIS. Probably won’t see publication as FDIS until February.
7. Status Update on Amd 1, 60601-2-1
   1. Was approved unanimously and in Sunnyvale we decided to move ahead to IS. Agreed that we would not try to update to Ed3.1. It’s possible CO won’t allow this, if they think we’ve made more than just minor editorial changes.
   2. CEN might want us to include Annex ZZ as recommended by Richard Mellish but Geneva is not concerned about this, so will go ahead without.
   3. Need to consider a new amendment to align with the General Standard Ed 3.1; include new understanding of Essential Performance; update according to the upcoming IGRT standard (see proposal from Japanese); and modernize the clauses that are now so far out of date as discovered while preparing -2-64. This will probably require that we prepare a new Ed 4 of this standard.
   4. A new edition will require a formal NWIP. This also means that we need to petition to change the stability date of the current edition 3 from 2015 to 2013. Must do this by January.
   5. Next steps: write 1-2 pages describing the changes proposed (see d above). Japanese to write paragraph describing IGRT additions, Hans to write couple paragraphs to describe additional changes.
   6. Noted that we need to also update the TPS and R&V standards. They have maintenance dates of 2014 and 2015, so propose to hold off for now.
   7. Propose to include discussion of this during F2F meeting in January.
   8. Claus will send Amendment 1 to CO immediately.
8. Status Update on Amd 1, 60601-2-8
   1. Our plan had been to make a few changes to the dated references to 60601-1. But also needed to determine the extent of needed changes. Inger-Lena has done. Will not pressure her to complete by November 1 so will probably distribute at CDV later, and won’t get comments/votes in time for Shanghai meeting.
9. Status Update on 60601-2-68
   1. Discussed emails received from 62B. Claus will engineer a formal contact from 62B so that I can reply on behalf of 62C.
   2. Will decide whether to hold a small meeting of the working party in mid January, based on the comments and votes received. There will be a conference call on December 20 to decide on the January 15-16 meeting.
10. Discussion of New Projects
    1. Revision of IEC 60601-2-1 to handle IGRT and other changes.
11. AOB
    1. Tom asked, and Inger-Lena explained about RP91, will be published soon as RP162, Guidelines for Commissioning of Linear Accelerators. Taken from a number of other publications, including 60976. Does not make any new requirements. Only published as guidelines, but some countries might turn into requirements.
12. Date and Place of the next meeting
    1. Shanghai, April 2013.
    2. Must register through IEC system.
    3. Reminder to submit agenda items for discussion at SC. Requires documents to be circulated minimum of 6 weeks in advance.
    4. Travel arrangements and Visa.
    5. Two CDVs: 60601-2-64 and 60601-2-68 (already out, due 12/14/2012)
    6. One CD: 62667
    7. Amendment to 60601-2-8 to publish as CDV if Inger-Lena decides is ready.
    8. Status of several FDIS: 60601-2-17, 60601-2-11
    9. Status of new IS:
    10. Structure of NWIP for -2-1
    11. Will try to arrange for meeting of light-ion subgroup prior to WG1 meeting in Shanghai.

Respectfully submitted,

Geoffrey Ibbott, Convenor, WG 1; Chair, Subcommittee 62C; and Chair, US TAG