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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** |
| **Activity:** | **Semi-annual meeting of Working Group 1** |
| **Meeting Dates:** | **March 26-30, 2012** |
| **Meeting Location:** | **Sunnyvale, CA** |
| **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**

**Sunnyvale, CA**

**March 28-30, 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.

Working Group 1 met March 28-30, although a subgroup met March 26-27. This was one of the best attended WG-1 meetings on record, with 28 representatives from ten countries in attendance. Countries represented included the USA, Canada, the UK, Germany, Sweden, Switzerland, Belgium, Japan, and China. However, as is often the case, the majority of attendees were representatives from industry.

The complete agenda and a brief report of the meeting is 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**

1. Opening and Introductions

* The working group thanked Alan Cohen for making arrangements for this meeting to be held in Sunnyvale, CA on March 28-30, 2012.
* The meeting was attended by 28 members representing the US, Canada, UK, Germany, Switzerland, Belgium, Sweden, Japan, and China.

2. Approval of agenda

* The agenda was approved

3. 61217 – Radiotherapy equipment-coordinates, movements and scales

* FDIS was approved and Edition 2.0 was published in Dec. 2012.

4. 60601-2-1 – Accelerator safety - amendment:

* Our amendment addresses only some minor issues regarding the correct transfer of data. The CDV was distributed for vote 16 Mar 2012. No negative votes received but a number of comments were submitted. Assessment from Richard Mellish to CENELEC was negative. Mr. Mellish recommends preparing an Annex ZZ to state exclusions from clause 16 of the General Standard regarding connections to other electrical equipment.
* The Japanese members will prepare a new amendment or a draft new edition to address the connection to IGRT equipment.

5. 60601-2-8 – Safety of X-ray therapy:

* NC comments supported the preparation of an amendment to delete a questionable clause and note. It will be submitted to CO for distribution as a CDV following further discussion with Richard Mellish.

6. 60601-2-11 – Safety of Gamma beam:

* All comments and CO changes were reviewed and the draft will be prepared for distribution as an FDIS.

7. 60601-2-17 – Remote afterloader safety:

* All comments and CO changes were reviewed and the draft will be prepared for distribution as an FDIS.

8. 60601-2-64 - Ion beam safety:

* A lengthy discussion was held on many topics. All NC comments were reviewed and addressed. Numerous changes to the document were made, including enough technical changes that a 2nd CD is required. WP will complete a draft by end of May 2012 for CO to distribute to National Committees for 3-months review. Plan to review NC comments at WG1 meeting in fall.

9. IEC 62667 – Ion beam performance:

* Most of the text has been reviewed. Some definitions have been added or changed in the safety standard and must be reviewed. The Annex must be reviewed.
* The subgroup plans to meet in early summer (PTCOG in Korea) and distribute a WG draft in advance of a fall meeting.

10. 60601-2-68: 1st edition of an IGRT safety standard:

* A lengthy discussion regarding 4DRT was held, and the WG heard a Presentation by Prof. Shirato and Mr. Yoshida on their developments.
* The WG reviewed and responded to NC comments.
* The subgroup will prepare a draft, then the WG will decide quickly if ready for CDV.

11. Plans for next WG meeting

* October 1-3, London or Crawley

12. Adjourn

Respectfully submitted,

Geoffrey Ibbott, Convenor, WG 1 and Chair, US TAG