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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:** | **November 6-8, 2013** |
| **Meeting Location:** | **Houston, Texas** |
| **Payment $:** | **Reimbursement for costs associated with meeting room at hotel chosen for the meeting** |
| **Reasons for Attending or not Attending** | **Attended to chair meeting of Working Group 1** |
| **Issues from Previous Meetings or Year:** | **See report** |
| **General Description of Activities of the Organization and/or Meeting:** | **See report** |
| **Issues for AAPM:** | **See report** |
| **Budget Request ($):** | **See budget request** |

Meeting Report

IEC Subcommittee 62C, working Group 1

Houston, Texas

November 6-8, 2013

Introduction

The US 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 agendas and brief reports of the meetings are below. Several items of importance to US medical physicists were discussed.

Meeting Report

Working Group 1 met in Houston on November 6-9, 2013, and was attended by 30 members representing Austria, Belgium, Brazil, China, Germany, Japan, Sweden, Switzerland, the United Kingdom, and the United States. This meeting was organized by G. Ibbott. A site in the US is chosen once every three or four meetings. The meeting lasted the full three days, and addressed several major developments.

The agenda consisted primarily of editing of draft standards based on comments received from National Committees on the following documents:

2nd CD of 62667, a performance standard for light-ion therapy systems. M. Moyers (US) is project leader and primary author. The 3rd Committee Draft will be distributed for comments in time for further review at our next meeting in November 2014.

CDV of 60601-2-64, a safety standard for light-ion (proton) therapy systems. M. Moyers (US) is project leader and primary author. A Final Draft International Standard (FDIS) was prepared and delivered in August for the French translation. The FDIS is expected for distribution to National Committees in the spring of 2014.

CDV of 60601-2-68, a safety standard for image-guided radiotherapy systems. The project team will prepare an FDIS for distribution in the spring of 2014.

Status update on 60601-2-17, a safety standard for high-dose rate brachytherapy systems. G. Ibbott (US) is the project leader and primary author. The FDIS has been circulated for voting and the standard is expected to be published in the spring of 2014.

Status update on 60601-2-8, a safety standard for orthovoltage x-ray systems. Mr. Hoeppner will make several minor changes agreed to and submit the standard for distribution as CDV in November. If no negative votes are received, it can go straight to publication.

Standards that have been published recently:

IEC 60601-2-1, Safety of linear accelerators, 3rd Edition. Amendment 1 expected to be published 12/2013.

Additionally, the WG received proposals for two new work items and an administrative change:

New edition of the linear accelerator safety standard. The UK NC recommends that the linac standard be updated to address new requirements for image guidance, motion management, gating, tracking, latency, etc. It must also be brought in line with new requirements for IGRT included in the IGRT standard.

New project to write a standard addressing control systems. The Japanese NC believes a new standard is required to address the communication between equipment such as the image guidance system and the linac.

Proposal for a new WG to handle standards addressing control systems. The Japanese NC believes that a new WG should be created.

Other items:Stability dates: Several standards with stability dates in 2014 were reviewed and decisions made to extend some, update several, and withdraw one.

Review of liaisons and participation in Joint Working Groups: All liaisons are active. A member from the Italian national committee volunteered to represent the IEC on ISO TC 85 (radiation protection).

Review of the Scope of SC 62C: The scope of TC62 is being updated, so WG1 drafted a revision of the scope of 62C that includes the work of all three WGs within 62C.

The meeting was adjourned at 5 pm on November 8, 2013.

Respectfully submitted,

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