

<b>Reported by (Name):</b>	Wesley Culberson
<b>Organization, SC and Group:</b>	University of Wisconsin – Madison IEC SC62C WG3 – Performance of Dosimeters
<b>Position Title:</b>	IEC SC62C WG3 member Associate Professor UWADCL Director
<b>Activity:</b>	IEC subcommittee 62C Working Group 3 meeting
<b>Meeting Dates:</b>	September 13-15, 2024
<b>Meeting Location:</b>	Munich, Germany
<b>Reasons for Attending or not Attending</b>	I am a technical expert on radiation dosimetry representing the interests of the AAPM and am a member of the AAPM Working Group for IEC (WGIEC).
<b>Issues from Previous Meetings or Year:</b>	This year a lot of work has been done to incorporate solid-state detectors into a much needed update to IEC 60731 standard. Previously, this standard only accommodated ion chambers. The meeting in Munich was a working meeting where we discussed and wrote a large portion of the update. The stakeholders in this group are clinical physicists and the major QA manufacturers (PTW, IBA, Standard Imaging, and SNC).
<b>General Description of Activities of the Organization and/or Meeting:</b>	The IEC sets performance and safety standards for manufacturers of equipment being used in radiation therapy. Working Group 3 deals specifically with the radiation dosimetry standards. Constant work is required to ensure the best safety for our AAPM members as well as the most accurate deliveries of dose to the patients in radiation therapy.
<b>Issues for AAPM:</b>	Incorporation of diodes and scintillators as standard dosimeters in radiation therapy, accurate calibrations of well chambers, and inclusion of international standard beams in therapeutic x-ray therapies. A new standard for these detectors is being developed in this Working Group.

## **Meeting Agenda**

**Dates: September 13-15, 2024**

**Location: Munich, Germany**

### **Friday, September 13, 2024**

Tour of the Mirion Medical dosimetry assembly line

### **Saturday, September 14, 2024**

- Discussion on connector harmonization
  - Jan presents updated PTW position
  - Discussion

### **Sunday, September 15, 2025**

- Topics to be discussed in the group:
  - Polarity effect for the new reference class
  - Well-behavior of Jaffe plot (Voltage dependence of the polarity effect)
  - Should we drop the cable irradiation test?
  - Re-visit leakage and radiation hardness
  - Usage of the reference beam quality
  - First draft for the definition of the reference radiation quality
  - Test conditions for radiation hardness evaluation
- Split up in working groups of 2-3 people each
  - Main task: Write text into the OSD platform.
  - Source: Specification document
  - List of what to write: see state of the update document
  - Jan will continue to prepare further sections (called “JAN check state” in the list)
  - If the group advances faster than Jan can prepare new sections, section to be prepared are assigned to the groups.
- Topics to be discussed in the group

Split up again to enter text into the OSD