
Workshop Report #4

ISA Standards Committee

Lloyd B. Gordon

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October 9, 2009

ISA 102 - High-Power Research and Development Electrical Systems Standards

- Co-chair Lloyd Gordon, LANL
- Co-chair Perry Anthony, SLAC

- Established at the DOE R&D Electrical Safety Workshop, July 2005

Scope

- High-power electrical systems including power supplies, radio frequency power systems, energy storage, and pulse forming networks, and their associated control, monitoring, data acquisition, safety, and protection systems.

Purpose

- To develop standards, recommended practices, technical reports and related information documenting design, fabrication, installation, operation, and maintenance of high power electrical systems, and their associated control, monitoring, safety, and protection systems for national and international research programs in accelerators, pulsed power applications, and high power lasers.
- Existing codes and standards do not address practical application of these systems or the safety issues associated with these systems.

ISA Standards Committee

- Current Membership list - 31
- Remove from current list - 13
- Remaining members
 - LANL - 4 SLAC - 2 ORNL - 1
 - UL - 1 SNL - 1 LBNL - 1
 - PNNL - 1 SRS - 1 BNL - 1
 - LLNL - 1 ISA - 4
- Proposed to add
 - SNL - 1 ANL - 1 PNNL - 1
 - BNL - 1

Updated Membership

- LANL - Lloyd Gordon, Don Bourcier, Tom McNaughton, Mike Gordon
- SNL - Gene Ormand, *Marion Wilde*
- LBNL - Bob Mueller
- ORNL - David Anderson
- UL - Tom Childers
- PNNL - Bobby Sparks, *Martin Iedema*
- SRS - James Luhring
- BNL - Bob Casey, *Jon Sandberg*
- LLNL - Gary Dreifuerst
- SLAC - Raymond Larson, *TBD*
- ANL - *TBD*

Proposed Standards

- Ground Hooks - design, testing, certification, care, maintenance
 - Integrate with 70E proposal
- Engineering controls to remotely discharge capacitive systems
- Engineering controls for energy control

Tasks

- Will revise membership
- Will draft two standards
- Will send out two drafts to committee for review
- Will present and revise results at spring EFCOG meeting