

PLASA Standards News

June 2011 Volume 15, Number 11

Draft PLASA Code of Practice on Artificial Optical Radiation Available for Comment

PLASA's Technical Resources Office has released a draft voluntary code of practice on Artificial Optical Radiation (AOR) for comments from the global professional lighting industry. The draft document is available at http://www.plasa.org/DPC_Standard_for_labelling_entertainment_lighting_fixtures_200511_mk.pdf. Comments should be submitted by 6 July 2011 to Ron Bonner, PLASA's Technical Resources Manager, at ron.bonner@plasa.org, using the comments form available at http://www.plasa.org/PLASA_Manufacturers_Code_of_Practice_Comment_form.pdf.

The document has been developed to help luminaire manufacturers help employers meet the duties placed on them by *Directive 2006/25/EC of the European Parliament and of the Council of 5 April 2006 on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation) (19th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)*, which is usually called "AOR" for short. The legislation being enacted in the EU to implement this directive requires employers to assess the exposure of their workers to artificial optical radiation (sunlight and moonlight are outside the scope), and to take action if the exposure might exceed recognized safe limits. This task for employers is simplified if luminaire manufacturers report the output of their products and their AOR risk in an easy to understand format. This proposed recommended practice is to help manufacturers do that.

A Trio of Draft ANSs in Public Review

Three draft documents that are intended to become American National Standards are available for public review on the PLASA website at http://tsp.plasa.org/tsp/documents/public_review_docs.php. In numerical order by alpha-numeric designation they are:

BSR E1.6-1 - 201x, *Entertainment Technology – Powered Hoist Systems*, deals with powered winches that are not serially manufactured electric chain hoists. These are most often wire rope winches that are installed as part of a powered rigging system. The document is intended to establish requirements for the design, manufacture, inspection, and maintenance of powered hoist systems for lifting and suspending loads in theatres and other places of public assembly. It is in public review through July 11; the review has ended when July 12 starts.

BSR E1.6-4 - 201x, *Portable Control of Fixed-Speed Electric Chain Hoists in the Entertainment Industry*, is a part of the BSR E1.6 powered theatrical rigging systems project. This document, BSR E1.6-4, covers portable control systems for single-speed electric chain hoists used in the entertainment industry as part of a performance or in preparation for a performance. The review runs through 27 June 2011; it's finished immediately after midnight UTC when 28 June starts.

BSR E1.41 - 201x, *Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources*, offers recommendations for measuring and reporting the output of LED luminaires used in the live entertainment industry, with emphasis on color and

color rendering. Current methods for luminaire output measurement assume the use of broad-band emitters, which LEDs are not. The review runs through 20 June 2011; it's finished when 21 June starts.

Protocol Is Trolling for Tech Tips

The editors of PLASA's *Protocol* are looking for topics for the "Tech Tips" column. They would appreciate receiving topic ideas for a writer to pursue or original tech tips that could be published in the column. If you have any topics or tips to offer, please contact Beverly Inglesby at beverly.inglesby@plasa.org or Karl G. Ruling at karl.ruling@plasa.org.

PLASA Plugfest Space Still Available

The next PLASA Control Protocols Plugfest will take place July 22-24 at the DFW Marriott Solana in Westlake, Texas. The event brings colleagues and competitors together to further the industry by testing the limits of control protocols and working out the bugs they encounter on preproduction equipment. Everyone is welcome to attend. For more information or to register to participate, contact Scott Blair at sblair@rdmprotocol.org.

Fall Protection for Residential Construction Workers Goes Into Effect June 16

OSHA has announced that starting June 16 residential construction employers will have to provide workers with the fall protection required by the construction fall protection standard issued in 1994 (29 CFR 1926.501(b)(13)). However, under new procedures, where residential construction employers find that traditional fall protection is not feasible or creates a greater hazard in residential environments, employers will be allowed to implement alternative procedures that will assure worker protection after developing a written site-specific fall protection plan. (Per OSHA, "too expensive" is not "not feasible.") See http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=DIRECTIVES&p_id=4755.

This bit of housing construction industry news is being mentioned in *Standards News* because many of the fall protection techniques OSHA is promoting for housing construction can be useful in the entertainment industry. OSHA has developed a variety of compliance assistance materials, which are available at http://www.osha.gov/doc/residential_fall_protection.html. Among these is a PowerPoint presentation that gives chapter and verse of the fall protection regulations, and also shows some effective techniques used by employers during various stages of construction to protect workers from falls.

OSHA Recordkeeping Web Tool

The OSHA Recordkeeping Adviser, available at <http://www.dol.gov/elaws/OSHARecordkeeping.htm>, is a web tool that helps employers understand their responsibilities to report and record work-related injuries and illnesses under the Occupational Safety and Health Administration's regulations. A set of questions assists in determining quickly whether an injury or illness is work-related, whether it needs to be recorded and which provisions of the regulations apply.

WTO Notifications

The U.S. Department of Commerce's web-based e-mail subscription service, Notify U.S., recently has announced a few notifications of WTO Technical Barriers to Trade that may be of interest to *Standards News* readers.

Ecuador Notification ECU/71

Date issued: 27 May 2011

Agency responsible: Ecuadorian Standardization Institute (INEN) ; Ministry of Industry and Productivity (MIPRO)

National inquiry point: Ministry of Industry and Competitiveness (MICIP)

Products covered: Electrical panels, cabinets, pull boxes, light junction boxes, and racks and rack accessories (HS 8538.10, 8538.90)

Title: Draft Technical Regulation of the Ecuadorian Standardization Institute (RTE INEN) No. 057: "Electrical Panels, Cabinets, Pull Boxes, Light Junction Boxes and Racks and Rack Accessories"

Description of content: The notified draft Technical Regulation on electrical panels, cabinets, pull boxes, light junction boxes and racks and rack accessories covers the following: Purpose; Scope; Definitions; General specifications; Classification; Product requirements; Packing, packaging and labelling requirements; Conformity assessment tests; Sampling; Reference standards and standards consulted; Demonstration of compliance with the Ecuadorian Technical Regulation; Conformity assessment and certification bodies; Inspection and/or supervisory authority; Type of inspection and/or monitoring; Penalty regime; Liability of conformity assessment bodies; and Review and updating of the Technical Regulation.

Objective and rationale: The notified draft Ecuadorian Technical Regulation establishes the technical requirements to be met by electrical panels, cabinets, pull boxes, light junction boxes and racks and rack accessories with a view to preventing safety risks, protecting human life and the environment and preventing practices likely to mislead users of electrical energy.

Relevant documents: Proposal and basic document: Draft Technical Regulation of the Ecuadorian Standardization Institute (PRTE INEN) No. 057: "Electrical panels, cabinets, pull boxes, light junction boxes and racks and rack accessories"

Proposed date of adoption: 27 August 2011

Proposed date of entry into force: 27 February 2012

Final date for comments: 18 July 2011

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/ECU/full_text/pdf/ECU71\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ECU/full_text/pdf/ECU71(spanish).pdf)

Thailand Notification THA/383

Date issued: 1 June 2011

Agency responsible: Thai Industrial Standards Institute (TISI)

National inquiry point: Thai Industrial Standards Institute (TISI)

Products covered: Product licensing

Title: Notification of the Thai Industrial Standards Institute on Prescribing the Inspection Criteria for Licensing

Description of content: The Thai Industrial Standards Institute has proposed to withdraw Notification of the Thai Industrial Standards Institute on Criteria for Product Certification dated 4 March 2009 and replace it with the Inspection Criteria for Licensing, classifying licensing procedure in 2 types, with relevant approval process and surveillance scheme.

Objective and rationale: Safety and consumer protection

Proposed date of adoption: 20 April 2011 [*sic.* More than a month before issuing the notice]

Proposed date of entry into force: Not given by country

Final date for comments: 1 August 2011

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA383\(thai\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA383(thai).pdf)

Notify U.S. suggests that US businesses send comments to notifyus@nist.gov at least three business days before the closing date. Include the following information:

- Your name
- Company name
- Contact name at company name
- Date submitted
- Notification commented on (number and title)
- Issue statement: The reason you are submitting comments should be stated clearly and should focus on the technical aspects. If you would have trouble meeting a deadline, indicate when you could comply.
- Supporting rationale statement: You should provide a rationale to support your issue statement. Focus on the technical aspects of the proposed regulation with which you may have issues.

Notify U.S. does not offer advice on what non-US businesses should do about WTO TBT notices that they find objectionable. However, every nation that participates in sharing these WTO TBT notices has some means for their constituents to file objections. If you are not a US citizen and have an objection, please find out what your procedure is and tell the editors of *Standards News* so we can share this with other readers.

ANSI Public Review Announcements

The following recent ANSI public review announcements are likely to be of interest to *Standards News* readers. Please send your comments before the deadline to the person indicated and to the Board of Standards Review at the American National Standards Institute, psa@ansi.org.

Due 11 July 2011

BSR INCITS/ISO/IEC 14776-151-201x, Information technology - Small Computer System Interface (SCSI) - Part 151: Serial Attached SCSI - 1.1 (SAS-1.1) (identical national adoption of ISO/IEC 14776 - 151:2010)

Defines the rules for exchanging information between SCSI devices using a serial interconnect. This standard defines the rules for exchanging information between ATA hosts and ATA devices.

Order from: Global Engineering Documents, <http://www.global.ihs.com>

Send comments to: Barbara Bennett, bbennett@itic.org

Single copy price: \$366.00

Due 18 July 2011

BSR/ARMA 19-201x, Policy Design for Managing Electronic Messages (new standard)

Sets the requirements for managing electronic messages as records and extends to any type of text-based electronic message or communication including email, instant messaging (IM), and text messaging (SMS).

Order from and send comments to: standards@armaintl.org

Single copy price: N/A

BSR/ISO/MSE 50001-201x, Energy management systems - Requirements with guidance for use (identical national adoption and revision of ANSI/MSE 2000-2009)

Provides the ANSI (US) adoption of ISO 50001 on energy management systems.

Obtain an electronic copy from: <http://www.ansi.org>

Send comments to: Holly Grell-Lawe, holly.lawe@innovate.gatech.edu

Single copy price: \$109.00

BSR/AWC NDS-201x, National Design Specification (R) for Wood Construction (revision and redesignation of ANSI/AF&PA NDS-2005)

Provides guidelines and requirements for structural and fire design of wood products, and their connectors.

Order from: Lacey Merriman-Doniff, Lacey_Merriman-Doniff@afandpa.org

Send comments to: Bradford Douglas, Brad_Douglas@afandpa.org

Single copy price: \$25.00

BSR/NECA 412-201x, Standard for Installing and Maintaining Photovoltaic Power Systems (new standard)

Describes the application procedures for installing photovoltaic power systems and components.

Obtain an electronic copy from: am2@necanet.org

Send comments to: Michael Johnston, michael.johnston@necanet.org

Single copy price: \$40.00

BSR ANSLG C78.60432.3-2007 (R201x), Incandescent Lamps - Safety Specifications - Part III: Tungsten Halogen Lamps (non vehicle) (reaffirmation of ANSI ANSLG C78.60432.3-2007)

Covers USA deviations to the safety specifications for tungsten halogen lamps (non vehicle).

Order from and send comments to: Randolph Roy, ran_roy@nema.org

Single copy price: NA

BSR C78.370-1997 (R201x), Method of Designation for Electric Lamps - Photographic, Stage, and Studio (reaffirmation of ANSI C78.370-1997 (R2007))

Details the method of designation for photographic, stage, and studio electric lamps.

Order from and send comments to: Randolph Roy, ran_roy@nema.org

Single copy price: NA

BSR C78.379a-1997 (R201x), MR and PAR Beam Designation and Tolerance (reaffirmation of ANSI C78.379a-1997 (R2004))

Covers MR and PAR beam designation and tolerance.

Order from and send comments to: Randolph Roy, ran_roy@nema.org

Single copy price: NA

BSR/TIA 921-B-201x, Network Model for Evaluating Multimedia Transmission Performance Over the Internet Protocol (revision of ANSI/TIA 921-A-2008)

Applies to the evaluation of any equipment that terminates or routes traffic using the Internet Protocol. This standard can also be used to evaluate media streams or other protocols carried over IP networks.

Order from: Global Engineering Documents, <http://www.global.ihs.com>

Send comments to: Ronda Marrow, rmarrow@tiaonline.org

Single copy price: \$152.00

BSR/UL 8750-201x, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750 -2009)

The following topics for the Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, are being recirculated:

- (1) Revise the definition for dead conductive part;
- (2) Revise the definition of "risk of electric shock";
- (3) Allow for LED drivers to comply with UL 935;
- (5) Clarify requirements for asphalt potting compounds;
- (10) Clarify requirements for Class 2 output circuits;
- (11) Revise Table 8.1 to include temperature limits for switches, terminal blocks, connectors, and other discrete devices;
- (12) Revise requirements involving cheesecloth to include fire indicator material
- (13) Revise requirements for leakage current measurement test in Section 8.7; and
- (15) Marking provisions.

Order from: comm2000, <http://www.comm-2000.com>

Send comments to: Heather Sakellariou, Heather.Sakellariou@us.ul.com

Single copy price: Contact comm2000 for pricing and delivery options

ISO Draft International Standards

ANSI has announced that the International Organization for Standardization is considering the approval of the draft standard (one!) listed below. Comments regarding ISO draft standards from U.S. constituents should be sent to Rachel Howenstine at ANSI's New York offices (isot@ansi.org). Citizens of other nations should file their comments with their ISO representatives. The final date for offering comments is listed for each draft. The price shown is the price for purchase from ANSI's Customer Service at sales@ansi.org.

ISO/IEC DIS 17065, Conformity assessment - Requirements for bodies certifying products, processes and services. 27 August 2011, \$67.00

New ANS Projects

ANSI has announced the following new projects that might affect the business of *Standards News* readers. Please contact the person listed if you are interested in more information or in becoming involved. You also may contact the developer if you object to the project and wish it to be abandoned, or if you would like to point out that its scope is covered by an existing standard, so the project might be redundant or conflicting.

ANSI/AMCA 301-2006, Methods for Calculating Fan Sound Ratings from Laboratory Test Data

(withdrawal of ANSI/AMCA 301-2006)

Establishes standard methods for calculating consistent fan sound ratings from lab test data. This standard applies to fans, blowers, exhausters, or other air-moving devices.

Contact: John Pakan, jpakan@amca.org

BSR/AGMA 6008-B-201x, Specifications for Powder Metallurgy Gears (revision and redesignation of ANSI/AGMA 6008-A98 (R2004))

Defines the minimum detailed information to be included in the powder metallurgy gear specifications submitted by the gear purchaser to the gear producer. This information covers gear tooth geometry data, gear drawing specifications, and gear material specifications.

Contact: Charles Fischer, fischer@agma.org

BSR/AGMA 6013-B-201x, Standard for Industrial Enclosed Gear Drives (revision and redesignation of ANSI/AGMA 6013-A-2006 (R2011))

Includes design, rating, lubrication, testing, and selection information for enclosed gear drives, including foot-mounted, shaft-mounted, screw conveyor drives and gear motors.

Contact: Charles Fischer, fischer@agma.org

BSR/AGMA 6113-B-201x, Standard for Industrial Enclosed Gear Drives (revision and redesignation of ANSI/AGMA 6113-2006 (R2011))

Includes design, rating, lubrication, testing, and selection information for enclosed gear drives, including foot-mounted, shaft-mounted, screw conveyor drives and gear motors.

Contact: Charles Fischer, fischer@agma.org

BSR/IES LM-79-201x, Electrical and Photometric Measurements of Solid-State Lighting Products (new standard)

Describes the procedures to be followed and precautions in performing measurements of total luminous flux, electrical power, luminous intensity, and chromaticity of SSL products for illumination purposes.

Contact: Rita Harrold, rharrold@ies.org

BSR/IES LM-80-201x, Measuring Lumen Maintenance of LED Light Sources (new standard)

Methods of measurement of lumen maintenance of sources including IED packages, arrays, and modules under controlled conditions and from actual measurements.

Contact: Rita Harrold, rharrold@ies.org

BSR/UL 2593-201x, General Requirements for Battery-Powered Appliances (new standard)

Applies to rechargeable battery-operated appliances incorporating detachable, integral, and separable battery packs. The maximum rated voltage is 75 Vdc.

Contact: Amy Walker, Amy.K.Walker@us.ul.com

Final Actions on American National Standards

The actions noted below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator. Final actions may include withdrawals as well as the adoption of new standards and the revision or reaffirmation of existing standards.

ANSI/ASME B30.2-2011, Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist) (revision of ANSI/ASME B30.2-2005): 31 May 2011

ANSI/ASNT CP-189-2011, Qualification and Certification of Nondestructive Testing Personnel (revision of ANSI/ASNT CP-189 -2006): 1 June 2011

ANSI/ASQ Z1.11-2011, Quality Management Systems Standards - Requirements for Education Organizations (new standard): 31 May 2011

ANSI/ASTM E2748-2011, Guide for Fire-Resistance Experiments (revision of ANSI/ASTM E2748-2010): 15 May 2011

ANSI/BIFMA e3-2011, Furniture Sustainability Standard (revision of ANSI/BIFMA e3-2010): 17 April 2011

ANSI/CEA 2040-2011, SD Card Common Interface Standard (new standard): 1 June 2011

ANSI/IEEE 802.11z-2010, Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment 7: Extensions to Direct Link Setup (DLS) (supplement to ANSI/IEEE 802.11-2007): 1 June 2011

ANSI/ISA 62453-1 (103.00.01)-2011, Field device tool (FDT) interface specification - Part 1: Overview and guidance (national adoption with modifications of IEC 62453-1): 31 May 2011

ANSI/ISA 62453-2 (103.00.02)-2011, Field device tool (FDT) interface specification - Part 2: Concepts and detailed description (national adoption with modifications of IEC 62453-2): 31 May 2011

ANSI/ISA 62453-301 (103.00.03)-2011, Field device tool (FDT) interface specification - Part 301: Communication profile integration - IEC 61784 CPF 1 (national adoption with modifications of IEC 62453-301): 31 May 2011

ANSI/ISA 62453-302 (103.00.04)-2010, Field device tool (FDT) interface specification - Part 302: Communication (national adoption with modifications of IEC 62453-302): 31 May 2011

ANSI/ISA 62453-303-1 (103.00.05)-2011, Field device tool (FDT) interface specification - Part 303-1: Communication profile integration - IEC 61784 CP 3/1 and CP 3/2 (national adoption with modifications of IEC 62453-303-1): 31 May 2011

ANSI/ISA 62453-303-2 (103.00.06)-2011, Field device tool (FDT) interface specification - Part 303-2: Communication profile integration-IEC 61784 CP 3/4, CP 3/5 and CP 3/6 (national adoption with modifications of IEC 62453-303-2): 31 May 2011

ANSI/ISA 62453-306 (103.00.07)-2011, Field device tool (FDT) interface specification - Part 306: Communication profile integration - IEC 61784 CPF 6 (national adoption with modifications of IEC 62453-306): 31 May 2011

ANSI/ISA 62453-309 (103.00.08)-2011, Field device tool (FDT) interface specification - Part 309: Communication profile integration - IEC 61784 CPF 9 (national adoption with modifications of IEC 62453-309): 31 May 2011

ANSI/NSF 332-2011 (i3), Sustainability Assessment for Resilient Flooring (revision of ANSI/NSF 332-2010): 2 May 2011

ANSI/UL 1419-2011, Standard for Safety for Professional Video and Audio Equipment (revision of ANSI/UL 1419-2005 (R2009)): 31 May 2011

Recently Published IEC and ISO Documents

The International Organization for Standardization (IEC) and the International Organization for Standardization (ISO) recently have published some documents that may be of interest to *Standards News*

readers. The prices shown are those for the documents if bought from ANSI's on-line standards store. These prices are generally lower than those on the IEC and ISO websites. For example, ISO/IEC 23006-1:2011 can be purchased for 92 USD or 92 CHF. However, as this is being written, a Swiss Franc is worth about \$1.19. You do the math. A little on-line shopping may find even lower prices elsewhere.

IEC 60034-16-1 Ed. 2.0 b:2011, Rotating electrical machines - Part 16 -1: Excitation systems for synchronous machines - Definitions, \$56.00

IEC 60335-2-37 Amd.2 Ed. 5.0 b:2011, Amendment 2 - Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers, \$26.00

IEC 60929 Ed. 4.0 b:2011, AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements, \$179.00

IEC 60947-4-2 Ed. 3.0 b:2011, Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters, \$260.00

IEC 60947-8 Amd.2 Ed. 1.0 b:2011, Amendment 2 - Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines, \$36.00

IEC 61347-2-3 Ed. 2.0 b:2011, Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps, \$179.00

IEC 61534-1 Ed. 2.0 b:2011, Powertrack systems - Part 1: General requirements, \$235.00

IEC/TR 61000-2-5 Ed. 2.0 b:2011, Electromagnetic compatibility (EMC) - Part 2-5: Environment - Description and classification of electromagnetic environments, \$270.00

ISO 7010:2011, Graphical symbols - Safety colours and safety signs - Registered safety signs, \$220.00

ISO/IEC 14496-15/Cor1:2011, Information technology - Coding of audio-visual objects - Part 15: Advanced Video Coding (AVC) file format - Corrigendum 1, FREE

ISO/IEC 16262:2011, Information technology - Programming languages, their environments and system software interfaces - ECMAScript language specification, \$263.00

ISO/IEC 18042-4/Amd1:2011, Information technology - Computer graphics and image processing - Spatial Reference Model (SRM) language bindings - Part 4: C - Amendment 1, \$16.00

ISO/IEC 23006-1:2011, Information technology - MPEG extensible middleware (MXM) - Part 1: MXM architecture and technologies, \$92.00

ISO/IEC 27005:2011, Information technology - Security techniques - Information security risk management, \$167.00

ISO/IEC TR 24763:2011, Information technology - Learning, education and training - Conceptual Reference Model for Competency Information and Related Objects, \$149.00

ISO/IEC/IEEE 26512:2011, Systems and software engineering - Requirements for acquirers and suppliers of user documentation, \$135.00

TSP Meeting Schedule

The Stage Lifts Working Group meets by Webex from 15:00 to 18:00 on the second Monday of every month. For more information, contact Martin Moore at martinmoore2010@gmail.com.

The meetings listed below will be held at the Dallas/Ft. Worth Marriott Solana in Westlake, TX. Please visit <http://tsp.plasa.org/tsp/meetings/index.php> and click on "Reserve a Hotel Room" to reserve a hotel room.

Control Protocols BSR E1.30 Mo ACN TG	09:00 - 18:00	Thursday 21 July 2011
	09:00 - 18:00	Friday 22 July 2011
Control Protocols BSR E1.33	09:00 - 13:00	Saturday 23 July 2011
Control Protocols BSR E1.37 Mo RDM TG	16:00 - 18:00	Saturday 23 July 2011
Control Protocols Plug Fest	16:00 - 22:00	Friday 22 July 2011
	09:00 - 22:00	Saturday 23 July 2011
	09:00 - 22:00	Sunday 24 July 2011
Control Protocols WG	14:00 - 18:00	Saturday 23 July 2011
Electrical Power WG	09:00 - noon	Friday 22 July 2011
Fog & Smoke WG	19:00 - 23:00	Friday 22 July 2011
Photometrics Working Group	14:00 - 17:00	Friday 22 July 2011
Rigging BSR E1.39 PFAS TG	09:00 - 17:00	Friday 22 July 2011
Rigging BSR E1.43 Performer Flying TG	08:00 - noon	Thursday 21 July 2011
Rigging BSR E1.6-1 Powered Winch TG	19:00 - 23:00	Thursday 21 July 2011
	08:00 - 23:00	Friday 22 July 2011
Rigging BSR E1.6-4 Chain Hoist Control TG	19:00 - 22:00	Thursday 21 July 2011
Rigging WG	13:00 - 18:00	Thursday 21 July 2011
Technical Standards Committee	09:00 - 13:00	Sunday 24 July 2011

PLASA Standards News

is distributed as a benefit to PLASA members and as a project announcement medium for PLASA Technical Standards Program participants.

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