

MINUTES FROM STANDARDS & PUBLICATION CHAIRMAN – SPRING 2002

MISSION: To continuously improve the administration of standards and Publications activities of the Insulated Conductors Committee.

SCOPE: Administer standards & publications activities within the Insulated Conductors Committee. Assist the subcommittees with generation, development, revision and reaffirmation of technical standards, guides and recommended practices. Monitor the progress of standards development and schedule the review for reaffirmation. Responsible for balloting of all standards through IEEE established procedures. Obtain authorization for these standards as they are developed. Coordinate any liaison necessary. Assist in the editing of technical standards and preparation of articles for publication under the sponsorship of the committee.

ICC ACTIVE PROJECTS - REVISED May 28, 2002

Project	Pub. Date	WG #	Chairman	Abbreviated Title	PAR Appr.	Status
48	1996	B1 (10-40)	Wm. L.Taylor	Test Procedure for HV AC Cable Terminations 2.5 kV-765 kV	05-02-96	Standard Expires 12-02. 1 yr. extension used up
82	1994	C14 (12-5)	Buchholz	Test Procedure for Impulse Tests on Insulated Conductors	06-14-94	Published '94. Ext.Requested 11-99 Extension granted 12/99. Vern to submit PAR for revision.82D0.3 sent for balloting5/28/02
83	1963 (R1991)	12-11	Zimnoch	Recommended Practice for Radial P.F. Tests on Insulating Tapes in Paper insulated Cable	6-27-91	Reaffirmed 1991 This project will be withdrawn 1-00
IEEE 383		NPEC	Pitman	Standard for qualifying Class1E Electric Cables and Field Splices for Nuclear Power Generating Stations.		This is PE/NPE PAR, will be withdrawn 1-00. Invite to ballot sent out by Merando 10/30/99 for PAR revision. PAR should be transferred to ICC?Draft18 in balloting 1-1-00
386	1995	B7 (10-50) T&D	Stepniak	Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600 V	05-14-02	This is a T&D PAR. Dan Ward/Carl Mortensen are T&D contacts
400-1991	1991	No new # (old12-22)	VonHermann/ MEDEK	IEEE Guide for Making High Direct-Voltage Test on Power Cable Systems in the Field	06-26-97	Needs to get reaffirmed. Will be withdrawn when 400.1 gets approved. Standard has been extended to 6-01. Automatically becomes 400.1. Becomes the basis for 400.1 but with name change (High+low voltage)
P400		C16 (12-50)	Thue	Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems (Omnibus) 400	06-26-97	P400/D16 approved as a revision Guide on 12/06/01. Standard is good for 5 years from the date of publication
P400.1		C15 (12-51)	MEDEK	Guide for Making Direct-Voltage Tests on Shielded Power Cable Systems in the Field 400.1	06-26-97	IEEE400-1991 will become P400.1 with a name change covering both high and low voltage instead of just high voltage. Told NESCOM to allow administrative withdrawal of PAR 1/22/02. Resubmit when ready. WITHDRAWN 3-21-02
P400.2		C18 (12-52)	Gnerlich/Densley	Very Low Frequency Testing in the Field 400.2	01-30-00	Balloting closed 1-5-01. Chair to address negative ballots.
P400.3		C17 (12-53)	Mashikian/ Boone	Partial Discharge Tests in the Field 400.3	01-30-00	
402	1974 (R1982)	12-29		Measuring Resistivity of Cable Insulation at High Direct Voltages		Reaffirmed 1982 PAR Withdrawn 12-5-91.
404	2000	B2 (10-27)	Luzzi	Standard for Extruded and Laminated Dielectric Shielded cable joints 2.5-500 kV	06-25-98	Approved 09-21-00. Bill Taylor is revising this standard. PAR sent to IEEE 3/21/02
442	1981 (R1996)	C19 (12-34)	Martin	IEEE Guide for Soil Thermal Resistivity Measurements		Standard expires 12-02. 1 Yr. Extension used up. Reaffirmation balloting request sent to IEEE 2/11/02
532	1974 (R1993)	A7 (6-3)	Coronia/ Westling	Selection & Testing of Protective Jackets	01-30-00	Document Being Revised Old PAR will be withdrawn. New PAR for revision sent to IEEE 3-18-02
575	1988	3-51	Buckweitz	Guide for Application of Sheath Bonding Methods		PAR Withdrawn 10/25/96. Revision in progress
592	1990 (R1996)	B3 (10-39)	Makal/ Rampley	Std. for Exposed Semicon Shields on HV Cable Joints and Separable Connectors		Reaffirmation approved by Stds. Bd. 09-19-96. Standard Expires 12-02. 1yr extension used up
P634	1978	D8 (14-6)	White/Zefar	Cable Penetration Fire Stop Qualification Test	9/19/96	PAR Ext. granted till 12-02 PAR to Expire 12-02
635	1989 (R 1994)	(6-5)	Bow	Guide for Selection & Design of AI Sheaths for power cables		PAR Extension requested 09-09-99 Ext. Approved 01-30-04. Guide is being revised.

646	1976	4-25		Hard Metrification of Conductor Tables		PAR Withdrawn 9-18-86.
737		12-39	Gorur/Hervig	Guide to Testing for Weathering of Polymeric Cable Accessories		PAR Withdrawn 3-16-95.
816	1987	12-36	Doepken	Tests for Smoke Toxicity & Corrosive Products of Cable Combustion		PAR Withdrawn 3/18/93.
817	1993	12-42	Tuzinski	Test Proc. for Flame Retardant Coatings Applied to Insulated Cable		Approved 6-17-93. This project will be expired 1/00
835	1994 (R 2000)	C1 (3-1)	Ernst/Bogden	Ampacity Tables		Reaffirmation requested 11-29-99 Reaffirmed 6-21-00 for 5 years
848	1996	D13 (12-45)	Gwal/White	Ampacity Derating of Fire Protected Cables		Approved 8-5-96. Standard expires 12-02. 1 yr. Extension used up. Reaffirmation Ballot invitation is out. Will be closed 5/3/02
971		C12W (11-23)	Johnsen/Rios	Distribution Cable Installation Methods Duct System	9/28/82	
972	1986	10-37		Guide for Connection of Insulated AI Conductors		PAR Withdrawn 6-27-91.
1026	1995	B4 (10-48)	Gear	Test Methods for Determination of Compatibility of Materials with Conductive Polymeric Insulation Shield and Jackets		Standard approved 12-14-95. Administratively withdrawn. One negative/fixd. Recirculation in progress Nov 01.
1034		12-36	Doepken	Fire & Smoke Test Proc. for Electrical Cables		PAR Withdrawn 3/16/95.
1047		12-43		Test Procedure for Measuring the Resistance of Semi-Conducting Jackets on Underground Distribution Cable		PAR Withdrawn 3/16/95.
1120	1990 (R 1995)	C11 (9-29)	Turner/ Parker	Guide for the Design and Installation of Submarine Power & Communication Cables		Reaffirmation approved 12-12-95. Rev in progress. PAR for revision sent 10-12-00. PAR approved until 12-04. Current standard is good until 12-04. Requested Steve to send group list.
1125	1993 (R 2000)	A13 (5-12)	Cooper	Guide for Moisture Measurement & Handling in CGIT		Reaffirmation requested 11-23-99 Reaffirmed 6-21-00 for 5 years
1142	1995	A11D (6-23)	Snow/Walker	Guide for the Design, Testing and Application of Moisture-Imp., Solid Dielectric, 5-35kV, Power Cable Using Metal/Plastic Laminates		Approved 03-16-95. Reaffirmation process in progress.
1143	1994	D11 (9-26)	Bow/Lowell	Guide on Shielding Practice for Low Voltage Cables		Reaffirmed 09-16-99
1185	1994 (R 2000)	D5 (14-1)	Merando	Guide for Installation Methods for Generating Stations		Reaffirmed 06-21-00 for 5 years
P1186		D7 (14-4)	Hancock/ LaMarca	Recommended Practices for the Evaluation of installed Cable Systems for Class IE Circuits in Nuclear Power Generating Stations	10-20-88	Last PAR extension granted until 12-03. PAR withdrawn per Hancock
1197		10-43	Medek/Black	Diag. & Classification of Cable, Joint, & Term. Troubles on Extruded Dielectric Cables		PAR withdrawn 3-16-95
1202		??	Kent ?/Daly	Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies		Transferred from IAS to ICC 5/6/02 Standard is being revised New PAR necessary to change title
1210	1996	A12 (12-46)	Fee/Weitz	Tests for Determining Compatibility of Cable Lubricants with Wire and Cable		Approved 05-21-96 Standard Expires 12-02. 1 yr. Extension used up
P1215	2001		D.Ward	Guide for Application of Separable Connectors in the Electric Power Industry		This is a T&D guide
P1216	2000	B17W	Dave Donovan	Guide for Application of Faulted Circuit Indicators for 200A, Single-Phase URD		Standard posted at http://grouper.ieee.org/groups/icc/b17/
P1234		C20 (12-48)	Gnerlich	Guide for Fault Locating on Shielded Power Cables For Utility Application	12/09/97	New PAR submitted 11-11-99 PAR approved 01-30-00
P1235 D2		A9 (6-24)	Szansizlo/ Walcott	Std. Test Methods for Identifying URD Cable Jackets and/or Conduits	03-98	PAR will expire 12-00. Draft2 approved 6-21-00
P1254		C19 (12-44)	Martin	Guide for Soil Stability Measurement & Data Evaluation	06-98	PAR expires 12-02 Balloting request sent to IEEE 02/11/02.
1299 C62.22. 1		B6 (10-53)	Dupont	Guide for the Connection of Surge Arresters to Protect Insulated Shielded Electric Power Cable Systems	12-12-95	Approved 12-10-96. This is a ICC/SPDC standard. Expires 12-01. Extension granted 12-2002. Revise or Reaffirm? Keep Jim Wilson, SPDC, Enron informed 314-554-2597
1300	1996	B5W (10-52)	Uzelac	Guide for Cable Connections for Gas Insulated Substations	08-01-96	Standard expires 12-01. Sent reaffirm request to IEEE 08-10-01 Electronic Reaffirm balloting in progress 8/14/01. Balloting group approved 12/18/01 Balloting completed 02-10-02 100% Afrm
1333	1994 (R 2000)	C13 (11-28)	Stewart/Roden baugh	Guide for Installation of T&D cable circuits using Guided Horizontal Drilling.		Reaffirmed 6-21-00 for 5 years Revision in progress
1343		12-50	Thue	Guide for Testing the Insulation of Shielded Power Cable Systems in the Field	9/21/95	PAR withdrawn June 1997 Work is in 400 & 400.1
P1406		C5	Engelhardt/	Guide to the Use of Gas-In-Fluid Analysis for	09-22-94	Approved 04-30-98.

	(5-28)	Floberg	Electric Power Cable Systems		
P1407	A11 (12-35)	Densley/ Bartnikas	Guide for Accelerated Aging Tests for Medium-Voltage Extruded Electric Power Cables Using Water Filled Tanks	09-22-94	Approved 10-30-01
P1425	C4 (3-58)	Foty/Zimnoch	Guide for the Evaluation of the Remaining Life of Impregnated Paper Insulated Transmission Cable Systems	06-14-95	P1425/D12 approved as a new guide on Dec 6,01. Standard is good for 5 years from the date of publication
P1428	D6 (14-2)	White/Brown	Guide for Installation Methods for Fiber Optic Cables	09-21-95	Extension requested 09-28-99. Approved 01-30-00, PAR Extension requested 10-25-01. Extension granted until 12/03
1429			Recommended Practice for Electrical Systems in Cleanrooms		PAR will be withdrawn 1-00
P1493	B9 (10-54)	Weitz/ Peterson	Giude for the Evaluation of Solvents Used for Cleaning Electrical Cables and Accessories	12-10-96	Will be 4 years old 12-00 & Adm. withdrawn. Extension approved till 12-03. Hartlien new chair
P1508	B8 (10-55)	Cox	Standard for Solder-Sweated Split Tinned Copper Connectors 5kV-35kV		PAR Expires 12-05-01/Expiration deferred 06-02 Extension request form & change of chair form to be filled by Cox by May 3. Cox needs to be a SA member also. Daleep Mohla is mentor.
P1511	B12 (10-43)	Champion	Guide for Investigating and Analyzing Power Cable, Joint, and Termination Failures on Systems Rated 5kV Through 46kV.	12/09/97	D6 balloted (1-3-01). 4 negatives. Needs to have a recirc. Balloting. PAR extended until 12-03
P1539	C8 (7-5)	Aabo/Zenger	Guide for Testing Transmission Cable Systems with Extruded Insulation, Part 1, 69KV through 150 kV.	12-98	
P1671		Valdes	Guide for Detection, Prevention and Mitigation of Cable Concentric Neutral Corrosion		Jodi needs Signature page

ITEM 1 INFORMATION ON STANDARD DEVELOPMENT

- **Electronic Balloting is recommended choice now.** All members of the balloting group must have access to web and e-mail address. **Please do not send draft to IEEE as attached file.**
- Useful training modules in Microsoft PowerPoint can be obtained at <ftp://stdsbbs.ieee.org/training/>. See <http://standards.ieee.org/faqs/ltpres.html> for more information. Working Group chairmen and members will find one or more modules of interest.
- A web page Standards-Process-at-a -Glance is available to help WG>>Chairs/Sponsor Chairs on each step of the standard process and a simple page of links to help them along the process. Go <http://standards.ieee.org/> and select Standards-Process-at-a -Glance under Standards Development.
- The *Standards Board Operations Manual* and *Standards Companion Manual* can be obtained at <http://standards.ieee.org/resources/index.html#guides>. Working Group chairmen will find helpful information on development of standards, balloting and submission to the Standards Board in both publications.
- The PAR form and instructions are available, at <http://standards.ieee.org/guides/par/index.html>. You can submit html/ text file. A PAR has a four-year life. Extensions are requested by submitting a "Target Extensions Request Form" at <http://standards.ieee.org/guides/par/extension.html>.
- Style Templates for IEEE Standards can be obtained at <http://standards.ieee.org/resources/spasystem/index.html>
- Standards Home Page <http://standards.ieee.org/db/balloting/> can provide you: Balloting Status Reports and Sign-up to join Balloting Pool.
- Draft standards are submitted to the Standards Review Committee (RevCom) of the Standards Board. For RevCom conventions see <http://standards.ieee.org/board/rev/revconventions.html> For the Guide for Submittal of Proposed Standards see <http://standards.ieee.org/guides/revguide.html> Form for Submittal of proposed Standards, <http://standards.ieee.org/board/rev/submitform.doc> or

<http://standards.ieee.org/board/rev/submitform.pdf> depending on your choice of a doc or pdf.

- For project Authorization Request (PAR) and questions contact **Jodi Haasz** (732-562-6367/j.haasz@ieee.org).
- For Editorial review of the draft and questions contact **Yvette Ho Sang** at 732-562-3814/y.hosang@ieee.org). It is best to do editorial review in early stage of standard development.
- For Balloting questions contact **Stephen Kahofer** (732-562-5540/s.kahofer@ieee.org)
For Review Committee Submittal contact **David Ringle** (732-562-3806/d.ringle@ieee.org).
- Request Form To Join an IEEE Balloting Pool," at <http://standards.ieee.org/db/balloting/ballotform.html>.

- Copyright Statement:

<http://standards.ieee.org/guides/style/section2.html#715>

ITEM 2 IEEE PROGRESS ON INTERNATIONALIZATION OF STANDARDS

- In globalization efforts and in cooperation with Region 7, first IEEE Standards National Committee has been established in Canada. This Committee has approved IEEE Std. 1249-1996 (IEEE Guide for Computer-Based Control for Hydroelectric Power Plant Automation) for fast tracking by the Canadian National Committee/International Electro-technical Commission (CNC/IEC) and its progress will be closely monitored. Efforts are under way to establish similar committees in other countries. A great deal of information has been gathered on Japan and research is underway to determine if a national committee, a "Geoport" (as portals representing the Standards activities in a geographic region.), or a dedicated web area would be valuable to both Japan, and the globalization efforts of the IEEE-SA. India, France and the UK are the next areas to be explored.
- In May 2001, Judith Gorman, Managing Director IEEE Standards, made a presentation at IEC meeting in Geneva, Switzerland. The purpose of this presentation was to enhance cooperation between IEEE and IEC. Further meetings between the two organizations are planned for globalizations of standards.
- IEEE/PES Switchgear Committee, in AdCom meeting in May 2001, discussed at length 'the strategy of future switchgear standards development'. The committee was of the view that duplicate efforts by IEEE and IEC for development of standard on same subject should be eliminated.
- IEEE/PES/PS Relay Committee hosted several working groups of CIGRE at its regular meetings.
- IEEE/PES Substations Committee initiated a task force to resolve differences between IEC and IEEE standards for the purpose of developing a truly international HVDC valve test standard.
- **IEEE/IEC Category D liaison established:**
 - a- IEEE/PES Switchgear Committee and IEC SC17A (High voltage switchgear and controlgear).
 - b- IEEE/PES Switchgear Committee and IEC SC17B (Low voltage switchgear and controlgear).
 - c- IEEE/PES Surge Protective Devices Committee and IEC SC 37B WG1 (Gas Discharge Tube (GDT) and Metal Oxide Varistor).
 - d- IEEE/PES Surge Protective Devices Committee and IEC SC 37B WG2 (Avalanche Breakdown Diode (ABD) and Thyristor Surge Suppressor (TSS) component matters).
 - e- IEEE/PES/ED&PGC/Hydroelectric Power Subcommittee and IEC TC 4 (Hydraulic Turbines Technical Committee).
 - f- IEEE SCC 22 (Power Quality) and IEC SC77A (Low Frequency Phenomena).
- **IEEE/IEC Category D liaison in process:**

- a- IEEE/PES Surge Protective Devices Low Voltage Subcommittee 3.6 and IEC SC 37A WG3 (Selection and Application of Low-voltage Surge Protective Devices).

HOW TO ESTABLISH A CATEGORY D LIAISON BETWEEN IEEE AND IEC?

Request originating from IEEE

- 1- IEEE Committee/Subcommittee Chair will write a letter to the secretary of IEC TC/SC requesting for a Category D liaison between the two the groups. A copy this letter will be sent to Staff Liaison.
- 2- Secretary of IEC TC/SC will discuss this request with relevant officers of IEC TC/SC.
- 3- Secretary of IEC TC/SC put the request on the agenda of the next meeting of IEC Committee of Action for approval.
- 4- After the approval is granted, Secretary of IEC TC/SC notifies IEEE (Staff Liaison) and requests the names of contacts from IEEE.
- 5- Staff Liaison will request IEEE Committee chair for names of the contact.
- 6- Staff Liaison will forward these names to the secretary of IEC TC/SC and a copy to Manager, Board Administration for IEEE-SA Board's notification.
- 7- All parties must send a copy of all future correspondence to Staff Liaison.

ITEM 3 Paper Balloting of Standards

The IEEE Standards Department can assist you in conducting your sponsor level ballot. Following checklist will assist you in providing us with the complete package of materials. Please mail this package to your Standards Staff Liaison. **Please do not send draft as attached file.**

Two copies of the draft on 8-1/2 x 11" paper.

(Copies of the draft are not required for reaffirmation ballot.)

- Each page must be numbered in the proper order.
- Each page must have project # and draft #. (Example: C57.12.00/D5)
- Each page must have current date.
- Complete IEEE copyright statement with current year on the first page is a must.
- Short IEEE copyright statement with current year in a "footer" on each page is a must.
- Title must be same as on approved PAR and must have the word "Draft" (Draft: Title)
- Complete figures, tables and annexes at proper place.
- Only metric units are allowed in the normative portion of the standard. Inch-pound data may be included in footnotes/annexes. Submit necessary exception request to Bruce Barrow of SCC14 301-493-4374; b.barrow@erols.com).

A balloting letter addressed to the balloters explaining the purpose of the ballot.

(Refer to Annex A of the IEEE Standards Companion for sample correspondence. This document is also available on the Standards home page <http://standards.ieee.org>. Go to policies and procedures under Standards Development.)

- The person who will receive the ballot summary upon completion of the ballot will write this letter. This is usually the Working Group Chair.
- This letter will include address, telephone and fax numbers, and e-mail address.

Upon receipt of the above, The Balloting center will:

1. Conduct an invitation-to-ballot to form your balloting group.
2. Prepare a ballot form, which will be read by optical mark reader.
3. Duplicate your draft, send to the balloters /coordination contacts listed on the PAR.
4. Enter names and Interest Categories into database for all balloters.
5. Mail out the ballot form, cover letter and draft, and record responses.

6. Approximately 10 days before the ballot closing, will provide you with contact information for those persons who have not returned their ballots.
7. Provide you ballot summary and comments received, after the ballot has closed.
8. Conduct a recirculation ballot when necessary.

ITEM 4 Electronic Balloting of Standards

How to upload drafts to IEEE for Electronic balloting

A directory called "drafts" has been created in the uploads area. You can use this area for uploading files of the drafts. The instructions are below.

1. Please check your draft for the following:

- Each page must be numbered in the proper order.
- Each page must have project # and draft #. (Example: C57.12.00/D5)
- Each page must have current date.
- Complete IEEE copyright statement with current year on the first page is a must.
- Short IEEE copyright statement with current year in a "footer" on each page is a must.
- Title must be same as on approved PAR and must have the word "Draft" (Draft: Title)
- Complete figures, tables and annexes at proper place.
- Only metric units are allowed in the normative portion of the standard. Inch-pound data may be included in footnotes/annexes. Submit necessary exception request to Bruce Barrow of SCC14 (301-493-4374; b.barrow@erols.com).

2. Convert your draft file to PDF.

3. Use the following uploads website for drafts to be submitted:

http://standards.ieee.org/eprocess/upload_balloting_file

Note 1: Please **do NOT** put spaces or special characters, such as:
(@#\$%^&*()/? , etc.) in the filenames.

Note 2: If you have many files or directories/subdirectories to upload,
Please zip them into one file (following the naming convention
of Note 1).

Note 3: The uploads/drafts directory is not readable, so you will not
Be able to see the contents.

4. Submitting drafts for Sponsor balloting

Following changes will be implemented beginning **19 November 2001** with regard to submitting drafts for Sponsor balloting.

- 1) All Sponsor electronic ballots will only be conducted with draft standards that are posted in a .pdf format. We will no longer be able to accept a draft for balloting in .doc or other formats. Supporting documentation, such as comment resolutions or a cover letter, may still be submitted in .doc, .xls, or other formats.
- 2) All drafts for electronic ballot must be posted to an IEEE-SA password-protected web site, by the IEEE-SA Balloting Center staff, in order to conduct the official Sponsor ballot. IEEE has created a new upload area to submit your documents to your liaison to be balloted. This area should be used to submit documents for **both** hard copy and electronic ballots.

This new area will allow you to submit your files via the web instead of an attachment to an email. The URL for submitting your drafts for Sponsor ballot is:
http://standards.ieee.org/eprocess/upload_balloting_file.

These new processes have been put into place to ensure that

- ❖ the balloted draft cannot be altered,
- ❖ a copy of the balloted draft is maintained as part of the IEEE-SA project files, and
- ❖ Policies regarding the posting of all drafts standards to secure IEEE web sites are followed.

ITEM 5 PARS Expiring 12-2002 (PARS have 4 year life)

- P634 Standard Cable Penetration Fire Stop Qualification Test
- P1254 Guide for the Measurement and Use of Soil Thermal Stability Data
- P1539 Guide for Testing Transmission Cable Systems with Extruded Insulation, Part 1, 69 kV through 161 kV

If the projects will not be submitted to RevCom in time for the December 2002 meeting, you have the following options:

1. Request an extension for the projects. The Target Extension Request Form can be found at <http://standards.ieee.org/guides/par/extension.html>. Please note that this extension request can now be from one to four years.
2. Request withdrawal of the projects.
Please note that this extension request can now be from one to four years.

Please advise S. Nandi (S.Nandi@ieee.org) in writing of the action that should be taken.

ITEM 6 STANDARDS Expiring 12-2002 (STANDARDS have 5 year life-span)

Following standards are expiring on 12-02. The working group chair will have following choices within the extension period:

- a) Reaffirm
- b) Revise
- c) Extend
- d) Withdraw

The standards in question are:

48-1996 IEEE Standard Test Procedures and Requirements for Alternating-Current Cable Terminations 2.5 kV through 765 kV
442-1981 (R1996) IEEE Guide for Soil Thermal Resistivity Measurements. Reaff. Balloting in progress
592-1990 (R1996) IEEE Standard for Exposed Semiconducting Shields on High-Voltage Cable Joints and Separable Insulated Connectors
848-1996 IEEE Standard Procedure for the Determination of the Ampacity Derating of Fire-Protected Cables. Reaff. Balloting in progress.
1210-1996 IEEE Standard Tests for Determining Compatibility of Cable-Pulling Lubricants with Wire and Cable
1299/C62.22.1-1996 IEEE Guide for the Connection of Surge Arresters to Protect Insulated, Shielded Electric Power Cable Systems. **Extension granted until 12-02.**

Please advise S. Nandi (S.Nandi@ieee.org) in writing of the action that should be taken.