USNC TAG SC17A: High-voltage Switchgear & Controlgear  
USNC TAG SC17C: High-voltage Enclosed Switchgear & Controlgear

| Place of Meeting: | San Luis Resort  
|                  | 5222 Seawall Boulevard  
|                  | Galveston, TX 77551 |

| Dates & Times    | Monday, 8 May 2006  
|                  | 6:00 PM - 9:00 PM |

| Presiding Officer: | Larry Farr, TA [USNC TAG SC17A]  
|                    | Ted Burse, TA [USNC TAG SC17C] |

| NEMA Staff:       | Ken Gettman  
|                  | 703-841-3254  
|                  | ken_Gettman@NEMA.org |

ATTENDEES
Paul Barnhart
Ted Burse
Dennis Dufournet
Pete Dwyer
Larry Farr
Ken Gettman
Dave Gohil
Bill Long
Deepak Mazumdar
Peter Meyer
Ted Olsen
Mike Orosz
Carl Schneider
Kirk Smith
Mel Smith
Alan Storms
Tom Tobin

Underwriters Laboratories
Powell Electrical
Areva T&D
General Electric
Eaton Electrical
NEMA
Central Electric Mfg.
Eaton
Central Electric Mfg.
S&C Electric
Siemens Power Transmission & Distribution
Schneider Electric
Square D
Eaton Electrical
Siemens Power Transmission & Distribution
Storms Advisory Services
S&C Electric
1. **CONDUCT OF MEETING**

The meeting was conducted in accordance with NEMA *Guidelines for Conducting Meetings*.

2. **APPROVAL OF PREVIOUS MINUTES**

The minutes of the 3 October 2005 meeting of SC17A and SC17C TAG meeting were approved by correspondence.

The minutes are approved by the absence of any comments submitted.

3. **ROSTER AND ATTENDANCE RECORD**

The roster was circulated among the attendees and changes were noted.

4. **APPROVAL OF THE AGENDA**

The agenda was approved without change.

5. **REVIEW OF ANY ISSUES / COMMENT DEVELOPMENT ON IEC DOCUMENTS:**

Highlighted documents will be reviewed for development of US vote and comments. The remainder of the documents are identified for information only. All are posted on the NEMA Forum.

**IEC - Working documents for SC 17A**

**17A/754/FDIS** [Open for voting until 6/16/06] Amendment 2 to IEC 62271-100, Ed. 1: High-voltage switchgear and controlgear - Part 100: Alternating current circuit-breakers

- It was suggested and approved to submit a vote to approve the document.

**17A/753/FDIS** IEC 62271-101, Ed. 1: High-voltage switchgear and controlgear - Part 101: Synthetic testing

- It was noted that the document was approved and is being published.

**17A/752/CDV** [Open for voting until 7/14/06] IEC 62271-1, Ed. 1: High-voltage switchgear and controlgear - Part 1: Common specifications

- during a review of comments on the CD, the following items were noted for comment:
2.1.1 – it was agreed to submit that there should be a reference to the terminology used in IEC 60815. It was suggested that the term “light” be used in reference to pollution.

Table 2 – it was noted that there are some discrepancies that have been published in the draft. In particular, lightning impulse values for 8.25 kV were questioned. A draft revision to the table will be circulated when available. The table will be submitted as a revision after TAG consensus.

6.2.4 – item a) should explicitly state that only one additional test may be conducted and at least one of the maximum of two tests may have a disruptive discharge.

It was noted that most of the significant concerns from the US have been addressed satisfactorily. While some proposals on the CD were not accepted, it was suggested that a favorable vote could be submitted on the CD. However, given the need to significantly revise Table 2, it will be necessary to submit a “negative” vote stating that revision of the table would result in US approval of the document.

IEC - Working documents for SC 17C

17C/374/FDIS [Open for voting until 5/26/06] IEC 62271-201, Ed. 1: High-voltage switchgear and controlgear - Part 201: AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV

- The US vote is to approve this document.

17C/373/CD [Open for voting until 6/16/06] IEC 62271-304, Ed. 1: Additional requirements for enclosed switchgear and controlgear from 1 kV to 72,5 kV to be used in severe climatic conditions

- it was noted that the US has been participating in the development of this document. Members should review the draft to determine whether any comments are appropriate.

17C/372/CDV [Open for voting until 8/11/06] IEC 62271-209, Ed. 1: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages of 52 kV and above - Fluid-filled and extruded insulation cables - Fluid-filled and dry type cable-terminations [17C/361/CC]

- it was noted that there seems to be no interest in this subject within the US. If any members do have an interest, they should contact Ken Gettman or Ted Burse.
17C/370/DC  IEC 61958: High-voltage prefabricated switchgear and controlgear assemblies - Voltage presence indicating systems
17C/369/FDIS  IEC 62271-3, Ed.1: High-voltage switchgear and controlgear - Part 3: Digital interfaces based on IEC 61850
17C/368/INF  Common numbering of IEC 62271 publications falling under the responsibility of subcommittees SC 17A and SC 17C
17C/367/DC  IEC 61639: Direct connection between power transformers and gas-insulated metal-enclosed switchgear for rated voltages of 72.5 kV and above
17C/366/RVN  Result of voting on 17C/344/NP: Measurement or Calculation of EMF in High Voltage Switchgear and Controlgear Assemblies
17C/357A/RVC  Revised result of voting on 17C/349/CDV: IEC 62271-202, Ed. 1: High voltage/low voltage prefabricated substation
17C/350A/CC  Revised compilation of comments on 17C/336/CD: IEC 62271-205, Ed.1: High-voltage switchgear and controlgear - Part 205: Assemblies of high voltage devices
17C/365/RM  Unconfirmed Minutes of the SC 17C Meeting held in Cape Town, Republic of South Africa, on October 19, 2005
17C/364/MTG  SC 17C meeting documents, Cape Town 2005-10-19
17C/363/AC  Request for experts to the Maintenance Team 22 for IEC 62271-207 (old IEC 62271-2): High voltage enclosed switchgear and controlgear - Part 207: Seismic qualification for gas-insulated metal enclosed switchgear for rated voltage above 52 kV
17C/361A/CC  Revised compilation of comments on 17C/351/CD: IEC 62271-305, Ed. 1: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages of 72.5 kV and above - Fluid-filled and extruded insulation cables - Fluid-filled and dry type cable-terminations

OTHER SC17A AND SC17C ACTIVITIES

US Experts to SC17A and SC17C

| TC17/SC17A/MT28 | Kenneth E. GETTMAN | TC17/SC17A/MT36 | R.W. LONG |
| TC17/SC17A/MT28 | H. Mel SMITH | TC17/SC17A/MT37 | Carl D. REIGART |
| TC17/SC17A/MT32 | Kenneth E. GETTMAN | TC17/SC17A/MT39 | H. Mel SMITH |
| TC17/SC17A/MT32 | R.K. SMITH | TC17/SC17A/MT40 | Kenneth E. GETTMAN |
| TC17/SC17A/MT33 | R.R. FRONK | TC17/SC17A/MT41 | Carl A. SCHNEIDER |
| TC17/SC17A/MT33 | Eric FUJISAKI | TC17/SC17A/MT62271-302 | Frank BLALOCK |
| TC17/SC17A/MT33 | Kenneth E. GETTMAN | TC17/SC17A/WG30 | Kenneth E. GETTMAN |
| TC17/SC17A/MT34 | Larry FARR | TC17/SC17A/WG30 | B.T. STEINBRECHER |
| TC17/SC17A/MT34 | Kenneth E. GETTMAN | TC17/SC17A/WG31 | Kenneth E. GETTMAN |
| TC17/SC17A/MT34 | Hugh ROSS | TC17/SC17A/WG31 | Thomas J. TOBIN |
| TC17/SC17A/MT34 | Carl A. SCHNEIDER | TC17/SC17A/WG35 | Kenneth E. GETTMAN |
| TC17/SC17A/MT34 | David STONE | TC17/SC17A/WG35 | R.K. SMITH |
| TC17/SC17A/MT34 | Alan D. STORMS | TC17/SC17A/WG35 | Thomas J. TOBIN |
| TC17/SC17A/MT36 | Kenneth E. GETTMAN | | |

7/29/2006
ACTIVITIES OF IEC SC17A/WG30
This document has been published

ACTIVITIES OF IEC SC17A/WG31
This document has been published.

ACTIVITIES OF IEC SC17A/MT32
This document has been published.

ACTIVITIES OF IEC SC17A/MT33
Eric Fujisaki – Maintenance of 61166 – Seismic
There has been a proposal for harmonization of IEC 62271-300 with IEEE 693, where Rulon Fronk would lead the effort. The committee has been invited to meet with IEEE in Vancouver.

ACTIVITIES OF IEC SC17A/MT34
Noted in the distribution of 17A/752/CDV.

ACTIVITIES OF IEC SC17A/WG35
No activity reported.

ACTIVITIES OF IEC SC17A/MT36
62271-100 is at FDIS stage.

ACTIVITIES OF IEC SC17A/MT37
There has been little progress and the SC17A officers will pursue the issue with the convenor.
ACTIVITIES OF IEC SC17A/MT38

The US has submitted a draft document, based on a NEMA standard, for consideration as a replacement to the current IEC document.

ACTIVITIES OF IEC SC17A/MT40

There have been three meetings and the draft is making progress.

ACTIVITIES OF IEC SC17A/PROJECT TEAM 62271-302

Frank Blalock - New Part 302: High voltage alternating current circuit-breakers with intentionally non-simultaneous pole operation

ACTIVITIES OF IEC SC17C/WG11

There is a need for US experts to participate in this activity.

ACTIVITIES OF IEC SC17C/MT14

Ted Burse, Pete Dwyer, Larry Farr, Anthony Hansen, Alan Storms - Revision of IEC 60298, IEC 61330 and related standards

ACTIVITIES OF IEC SC17C/MT15 & 16

Phil Bolin, Pete Dwyer – revision of IEC 60517

ACTIVITIES OF IEC SC17C/WG17

The first CD has been distributed [17C/369/CD] for >52 kV Compact Switchgear Assemblies.

ACTIVITIES OF IEC SC17C/MT19

See above.

6. TAG OPERATING PROCEDURE

As a reminder, voting members of the TAG must submit responses where notification has been transmitted that voting is required and should submit responses to documents with comments requested. The usefulness of the TAG is dependent on participation in the development of US proposals and US positions, comments and voting on IEC draft documents. As these documents are being considered with increasing frequency for adoption in the US as National Standard, it is important that US concerns, from general interest, users and manufacturers, be identified and efforts expended to address those concerns.

7. OTHER

Metric Only Directive – Implementation is currently scheduled for January 1, 2010. Responding to our inquiries, European counterparts indicated they are broadly in agreement with us and will be developing a position paper that may either call for permanent withdrawal or a further delay. Commission officials, who earlier rebuffed U.S. officials on the matter, have responded to quite
differently to ORGALIME, indicating a desire to not hurt European industry. **NEMA supports dual labeling.**

8. **TIME AND PLACE OF NEXT MEETING**

   The next meeting is scheduled to be in October 2006 and should be in conjunction with IEEE PES Switchgear Committee in Milwaukee, WI. The Spring 2007 meeting is anticipated to be in Clearwater Beach, FL.

9. **ADJOURNMENT**

Reported by:

Ken Gettman  
Manager, International Standards  
tel 703-841-3254  fax 703-841-3354  e-mail ken_gettman@nema.org

Reviewed by Counsel:

cc: J. Collins  
    E. Gray