

ACCREDITED STANDARDS COMMITTEE, C37

1300 North 17th St., Suite 1847, Rosslyn, VA 22209

MINUTES

MEETING: ACCREDITED STANDARDS COMMITTEE
C37, SWITCHGEAR

PLACE OF PLACE OF MEETING: SAN LUIS RESORT
5222 SEAWALL BOULEVARD
GALVESTON ISLAND, TX 77551-4098

DATE AND TIME: TUESDAY, OCTOBER 1, 2002: 6:30 – 8:00 P.M.

PRESENT

P. Barnhart	UL
W. Bergman	PowerNex
S. Billings	Mitsubishi Electric
J. Brunke	BPA
T. Burse	Powell Electric
R. Capra	Consultant
C. Chow	PEPCO
J. Collins	NEMA
P. DiLillo	Consolidated Edison of New York
A. Dixon	Alex Dixon, Inc.
R. Dotson	Lakeland Electric
P. Dwyer	General Electric – Consultant
D. Galicia	Ameren Corporation
K. Gettman	NEMA
K. Gray	Pacific Breaker Systems
P. Grossmann	Siemens Power
L. Holloman	Dominion Power
A. Kollar	First Energy Corp.
R. Kyle	Southern Co.
J. Leach	Hi-Tech Fuses
D. Lemmerman	PECO Energy
R. Long	Eaton/Cutler-Hammer
A. Mannarino	PSE&G
N. McCord	Southern States Inc.
N. McQuin	McQuin Electrical Power Consulting
A. Monroe	USCO Power
G. Montillet	Alstom
Y. Musa	American Electric Power Corp.
J. Nelson	TVA
T. Olsen	Siemens Power
A. Peterson	Utility Service Corp.
R. Puckett	DuPont
T. Royster	Dominion Virginia Power
R. Sauls	Alabama Power Co.
D. Sharma	Consultant
D. Sigmon	ABB, Inc.
K. Smith	Eaton/Cutler-Hammer
M. Smith	Siemens Power – Consultant

D. Stone	Cooper Power Systems
A. Storms	Storms Advisory Services
T. Tobin	S & C Electric
C. Wagner	Consultant
J. Wisniewski	UL
E. Worland	Southern California Edison

PRESIDING OFFICER

T. OLSEN, ACTING CHAIRMAN

SECRETARY

J. COLLINS

I. APPROVAL OF PREVIOUS MINUTES

The minutes of the meeting held in Newport, Rhode Island on April 30, 2002 were approved as written. It was noted that Mr. D. Galicia was to be added to the attendance list for the April meeting.

II. MEMBERSHIP CHANGES

None reported.

III. NEW PROPOSED ASC C37 OPERATING PROCEDURES

The Chairman provided the Committee with a summary of the chronological background of the effort to have the ASC C37 Operating Procedures approved and the need to legitimize the operations of the Committee as an ANSI Accredited Standards Committee during the interim period covering the remaining months of its existence. A recent letter ballot had been circulated as Draft No. 5, together with a compilation of comments from the previous letter ballot circulation. There were insufficient responses to bring the ballot to closure. Following considerable discussion, a motion to take a formal vote on the Operating Procedures at this meeting was offered.

Motion: To take a formal ASC C37 Committee vote to accept or not accept the Operating Procedures at this meeting. The motion was approved 13-0.

Following approval of this motion, the Chairman declared a short recess so that each of the three principal delegations (NEMA, IEEE and EEI) could caucus to take their individual votes.

Voting Results: When the delegations had completed their deliberations, the Chairman called the meeting back to order and a vote count was conducted. Voting results were as follows: EEI: 5 Yes, IEEE: 5 Yes, NEMA: 5 Yes, UL: 1 YES, TVA: 1 YES and NETA: 1 YES. Final Results: 18 in favor; 0 opposed. As a result, the new ASC C37 Operating Procedures were formally approved.

Mr. A. Monroe led the Committee in congratulating the Chairman for his hard work in getting the procedures approved after an extended effort.

IV. C37 STATUS REPORT

A draft Fall 2002 issue of the C37 Status Report was distributed in advance of the meeting via e-mail. Members were requested to submit any additional corrections to staff by the end of October 2002. A final edition of the C37 Status Report will subsequently be issued by the Secretary via e-mail.

Action: Technical points of contact identified in the C37 Status Report are requested to forward changes to the Secretary by November 15, 2002 to those portions of the report under their individual responsibilities. Secretary will then issue revised C37 Fall 2002 Status Report in the December timeframe and also post it on the NEMA website.

V. THE FUTURE OF ASC C37

- A. Voting Results and Disposition of C37 Standards -- The Chairman summarized the results of C37 standards balloting during the past year. 16 ballots were conducted. 14 ballots were considered valid based on the voting response levels and 2 were not valid due to incomplete voting response. C37.60 voting results were negative. Of the two invalid ballots, voting for C37.14 fell one vote short in the IEEE delegation and C37.48.1 did not get circulated to the IEEE delegation by the IEEE Balloting Center.

The Chairman then briefed the Committee on the status and proposed disposition of all of the C37 standards sponsored by either NEMA or EEI. A copy of this list in matrix form is attached as (**Exhibit 1**). It was noted that several documents are due to expire in the next several months. To prevent loss of ANSI approval on these documents, it is intended to initiate reaffirmation ballots as soon as possible on these documents, prior to transfer to IEEE. One of the guests in attendance expressed the opinion that the documents should be transferred immediately, and that IEEE-SA should handle the reaffirmation. This raised the question of how IEEE-SA could reaffirm a document not created in the IEEE-SA system. The conclusion was that these documents should be reaffirmed within ASC C37, where they were originated.

The Chairman requested that the following documents be reaffirmed within ASC C37 prior to turnover to IEEE: C37.12, C37.17, C37.22, C37.45, C37.51 and C37.121. The following conformance assessment standards will remain with NEMA under NEMA sponsorship: C37.50, C37.51, C37.52, C37.54, C37.55, C37.57, C37.58 and C37.85. C37.53.1 (a conformance assessment standard) will be transferred to IEEE. A transition plan will be developed for the details of turning over documents to IEEE as early as possible. Wherever possible, electronic files with the latest updates, recommended changes from completed letter ballots, etc., will be provided when the documents are turned over to IEEE.

Action: Chairman and Secretary to coordinate actions associated with turnover of documents.

- B. Disposition of ASC C37 -- The Chairman stated that the ultimate disposition of this committee will be decided by letter ballot at a time to be announced.

VI. TIME AND PLACE OF NEXT MEETING

It is likely that there will not be a need for a further meeting of ASC C37. A letter ballot will be circulated at a later date at the direction of the Chair regarding the question of dissolution of the ASC C37 Committee.

VII. ADJOURNMENT

There being no additional business, the meeting was adjourned at 7:50 pm.

Reported by:

John P. Collins, Jr.

John P. Collins Jr.,
Secretary, ASC C37 Committee
October 15, 2002

EXHIBIT

CNS 10/17/02
Reviewed by Counsel

C37 Document Status
Documents sponsored by NEMA or by EEI:

October, 2002

Document	Title	Historic Sponsor	Suggested New Sponsor	Work Cycle	Remarks
C37.06 2000 Approve 05-2000	Schedules of Preferred Ratings and Related Required Capabilities for AC High Voltage Circuit Breakers Rated on a Symmetrical Current Basis	NEMA SG4 SG5	IEEE PES Switchgear Joint HVCB-SA	2002- 2003	Volunteer WG Chair: Georges Montillet Draft status: D2C (Aug, 2002) PAR: draft PAR in work
C37.06.1 2000 Approve 03-2000	Guide for High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis Designated "Definite Purpose for Fast Transient Recovery Voltage Rise Times"	NEMA SG4 SG5	IEEE PES Switchgear Joint HVCB-SA	2003- 2004	Revision effort should start in 2003. May need to be merged into C37.06?
C37.12 1991 Approve 1991	AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis— Specifications Guide	EEI	IEEE PES Switchgear Joint HVCB-SA	2002- 2003	Sponsored by EEI. Suggest transfer to IEEE. Revision effort should start in 2003.
C37.16 2000 Approve 05-2000	Preferred Ratings, Related Requirements and Application recommendations for Low Voltage Power Circuit Breakers and Power Circuit Protectors	NEMA SG5	IEEE PES Switchgear LVSD	2003- 2004	Revision effort should start in 2003. Requires coordination with C37.13. Volunteer WG Chair: to be discussed Draft status: PAR:
C37.16a	Supplement to C37.16-1988	NEMA SG5	None	N/A	Superseded – withdraw

As of October, 2002

Document	Title	Historic Sponsor	Suggested New Sponsor	Work Cycle	Remarks
C37.17 1997 Approve 1997	Trip Devices for AC and General Purpose DC Low Voltage Power Circuit Breakers	NEMA SG5	IEEE PES Switchgear LVSD	2002-2003	Revision effort due to start in 2003. Current revision approved 1-97.
C37.22 1997 Approve 1997	Preferred Ratings and Related Required Capabilities for Indoor AC Medium-Voltage Switches Used in Metal-Enclosed Switchgear	NEMA SG5	IEEE PES Switchgear Joint HVS-SA	2002-2003	Coordinate changes with C37.20.3, C37.20.4, C37.57, and C37.58.
C37.32 2002 Approve 05-2002	Schedules of Preferred Ratings, Manufacturing Specifications and Application Guide for High Voltage Air Switches, Bus Supports and Switch Accessories	NEMA SG6	IEEE PES Switchgear HVS	2005-2006	
C37.42 1996 Approve 01-1997	Specifications for Distribution Cutouts and Fuse Links	NEMA SG2	IEEE PES Switchgear HVF	2002	Volunteer WG Chair: in discussion Draft status: nearly ready for ballot PAR: to be prepared
C37.43 1996 Approve 01-1997	Specifications for High-Voltage Distribution and Power Class Expulsion, Current Limiting and Combination Types of External Capacitor Fuses for Shunt Capacitors	NEMA SG2	IEEE PES Switchgear HVF	2002	Volunteer WG Chair: in discussion Draft status: nearly ready for ballot PAR: to be prepared
C37.45 1981 Reaffirm 12-1992	Specifications for Distribution Enclosed Single-Pole Air Switches	NEMA SG2	IEEE PES Switchgear HVF	2002	First edition created by C37 committee. Deadline for expiration 12-02. C37 to process ballot for reaffirmation. Volunteer WG Chair: in discussion Draft status: nearly ready for ballot PAR: to be prepared

Document	Title	Historic Sponsor	Suggested New Sponsor	Work Cycle	Remarks
C37.46 2001 Approve 12-2001	Specifications for Power Fuse and Fuse Disconnecting Switches	NEMA SG2	IEEE PES Switchgear HVF	2004-2005	
C37.47 2001 Approve 12-2001	Specifications for Distribution Fuses, Disconnecting Switches, Fuse Supports and Current Limiting Fuses	NEMA SG2	IEEE PES Switchgear HVF	2004-2005	
C37.50 1989 Reaffirm 03-2000	Conformance Test Procedures for Low-Voltage AC Power Circuit Breakers Used in Enclosures	NEMA SG5	NEMA SG5	2004-2005	Revision effort due to start in 2003.
C37.51 1989 Reaffirm	Conformance Test Procedures for Metal-Enclosed Low Voltage AC Power Circuit Breakers Switchgear Assemblies	NEMA SG5	NEMA SG5	2003-2004	Revision effort due to start in 2003. Current standard reaffirmed 9-95.
C37.52 1974 Reaffirm 03-2000	Test Procedures for Low-Voltage AC Power Circuit Protectors Used in Enclosures	NEMA-SG5	NEMA SG5	2004-2005	No future revisions expected.
C37.53.1 1989 Reaffirm 03-1996	Conformance Test Procedures for High Voltage Current Limiting and Motor Starter Fuses	NEMA-SG5	IEEE PES Switchgear HVF	2002-2003	Volunteer WG Chair: in discussion Draft status: nearly ready for ballot PAR: to be prepared
C37.54 1996 Waiting ANSI	Conformance Test Procedures for Indoor AC High Voltage Circuit Breaker Applied as Removable Elements in Metal-Enclosed Switchgear	NEMA SG4 SG5	NEMA SG4 SG5	2002	Approved 2002. BSR-9 submitted to ANSI.

Document	Title	Historic Sponsor	Suggested New Sponsor	Work Cycle	Remarks
C37.55 1989 Waiting ANSI	Conformance Test Procedures for Metal-Clad Switchgear Assemblies	NEMA SG5	NEMA SG5	2002	Approved 2002. BSR-9 submitted to ANSI.
C37.56	Conformance Test Procedures for Frame and Pad Mounted Circuit Breakers through 72.5kV	NEMA SG4	None	None	Reserved but not used
C37.57 1990 Reaffirm 01-1997	Conformance Testing of Metal-Enclosed Interrupter Switchgear Assemblies	NEMA SG5	NEMA SG5	2002- 2003	Summer 2002 letter ballot Affirmative with Comments. Recirculation ballot October, 2002.
C37.58 1990 Reaffirm 01-1997	Conformance Test Procedures for Indoor AC Medium Voltage Switches for Use in Metal Enclosed Switchgear Assemblies	NEMA SG5	NEMA SG5	2002- 2003	Summer 2002 letter ballot Affirmative with Comments. Recirculation ballot October, 2002.
C37.58a	Supplement to add Requirements and Criteria for Production Tests	NEMA SG5	None	None	Will be superceded by new edition of C37.58
C37.85 1989	Safety Requirements for X-Radiation Limits for AC High Voltage Power Vacuum Interrupters used in Power Switchgear	NEMA SG4	NEMA SG4	2002	Approved 2002.
C37.121 1989 Reaffirm 03-00	Unit Substations	NEMA SG5	IEEE PES Switchgear SA	2004- 2005	BSR-9 submitted to ANSI.