U.S. National Committee of the International Electrotechnical Commission, A Committee of the American National Standards Institute

Technical Advisory Group for IEC TC 14

TAG Administrator:

National Electrical Manufacturers Association

1300 North 17th Street, Suite 1752, Rosslyn, VA 22209

Tel: 703-841-3252, fax: 703-841-3353

MINUTES

PLACE OF MEETING: Hilton Minneapolis Hotel

Minneapolis, Minnesota

DATE AND TIME: Monday, March 12, 2007

8:00 AM

PRESIDING OFFICER: P. Hopkinson, Technical Advisor

Members Present:

S. Choinski NEMA Staff, TAG Administrator

C. Colopy Cooper Power Systems

P. Hopkinson Hvolt, Inc., TA

S. Kennedy
Niagara Transformer Corporation
R. Marek
Dupont Advanced Fibers Systems
H.J. Sim
Waukesha Electric Systems

B. Simpson Innovative Paper Technologies

Members Absent:

D. Aho
J. Corkran
J. Foldi
D. Foster
Cooper Power Systems
Cooper Power Systems
Foldi & Associates
Foster Magnetics

R. Girgis ABB

J. Lackey PowerNex Associates Inc
G. Morehart ACME Electric Corporation

P. Powell PEPCO

Others present:

J. Arteaga Kuhlman Electric

P. Balma Consultant R. Benson Trantech

N. Brush Representing Copper Development Assoc.

A. Cancino IEM-Mexico
J. Caskey NEMA
M. Ceglia IEEE-SA

D. Corel Sola/Hevi-Duty

J. Crouse GE

L. Dix Quality Switch
A. Kraemer MR. Reinhausen

J. Murphy Reedy Creek Energy Services

N. McQuin Electrical Power Consulting

H. Nordman ABB Oy, Transformers T. Prevost Weidmann-ACTI

V. Vailoor Trantech

L. Wanenaar WagenTrans Consulting

1. CALL TO ORDER

The meeting was called to order, meeting guidelines reviewed and attendance recorded.

2. APPROVAL OF THE AGENDA

The Agenda was approved as written.

3. APPROVAL OF THE PREVIOUS MINUTES

Minutes of the meeting held March 12, 2007 in Dallas, Texas, were approved as written.



4. REVIEW AND UPDATE OF USNC ROSTERS FOR TC 14

A roster was circulated and corrections were annotated.

5. RESULTS OF THE PLENARY MEETING HELD IN MEXICO CITY JUNE 7-8, 2007

Meetings were organized and hosted by Alvaro Cancino of IEM, who did an outstanding job. There was a tour of the IEM plant that was well received. It was noted that there was an unusually large delegation from China.

6. <u>MT5 REVISION OF IEC 60076-1 – POWER TRANSFORMERS - PART 1: GENERAL. P. HOPKINSON, CONVENOR</u>

This document is the equivalent to IEEE C57.12.00 and C57.12.01. The next Maintenance Team meeting is in Rome, Italy, December 3-5.

A CD was circulated over the summer. 345 comments (45 pages) were received.

7. GAS-FILLED TRANSFORMER STANDARD

This standard was approved as a CDV and is moving to FDIS. The US does not support this activity as the standard deals with SF_6 , as the insulating gas only and it is not considered environmentally friendly.

8. ELECTROMAGNETIC FIELDS ARE BACK AS A POTENTIAL ISSUE

CLC TR 50453 - Evaluation of electromagnetic fields around power transformers. The above document has been offered to IEC/TC 14 by CENELEC with the aim of its inclusion into the international standardization process. CLC TR 50453 may be introduced into the work program as a NP, CDV (fast-track) or as maintenance work. IEC national committees are requested to send their feedback through the IEC electronic voting system by 2007-11-23 indicating if CLC TR 50453 should be introduced into the work program of IEC/TC 14.

Environmental issues are big in Europe and the Switchgear Committee has done some work in this area.

The consensus of the TAG is not to participate in this activity.

9. <u>DOCUMENT 10/720/CDV - IEC 62535 ED.1: INSULATING LIQUIDS - TEST METHOD</u> <u>FOR DETECTION OF POTENTIALLY CORROSIVE SULFUR IN USED AND UNUSED</u> INSULATING OIL

Information on a test for corrosive sulphur. There are issues with sulphur in insulating oil. This is being addressed in TC10. There will be more discussion on this topic at the TF Tap Changers for De-Energized Operation

10. <u>IEC 60076-2 ED.3: POWER TRANSFORMERS - PART 2: TEMPERATURE-RISE FOR</u> OIL-IMMERSED TRANSFORMERS

This was not addressed due to time constraints.

11. <u>IEC 60076 POWER TRANSFORMERS – PART 12 - LOADING GUIDE FOR DRY-TYPE</u> POWER TRANSFORMERS

The Dry type loading guide has been drafted and may have some misleading information. Mr. Marek is a member of this WG. There is a concern that open wound transformers are not being considered.

12. <u>IEC 60076-1 TS ED. 2: HIGH TEMPERATURE INSULATION MATERIALS IN LIQUID</u> TRANSFORMERS. R. MAREK, CONVENOR

The MT is working on a CD, though it may go directly to CDV. Loading guide information is being added and this may become a standard (it is currently a technical specification).

13. <u>UHV SYMPOSIUM</u>

The UHV Symposium was held in July in China. Mr. Joe Koepfinger attended the meeting. There is a proposal to establish a new TC to address UHV equipment. Most in the US believe that no new Committees are necessary to address.

14. IEC 60076-6 ED.1: POWER TRANSFORMERS - PART 6: REACTORS

This standard was approved as a CDV and is moving to FDIS.

15. <u>DUAL LOGO ISSUES</u>

This was not addressed due to time constraints.

16. <u>OTHER BUSINESS</u>

There was no other business

17. DATE AND PLACE OF THE NEXT MEETING

The next meeting will be held March 17, 2008, in Charlotte, NC

18. <u>ADJOURN</u>

The meeting adjourned at 9:24 AM.

Reported By: S. Choinski October 15, 2007