

WORKING GROUP FOR DEVELOPMENT OF PC57.131, STANDARD REQUIREMENTS FOR TAP CHANGERS - William Henning, Chairman

The Working Group on Tap Changer Performance met on Monday, October 15, 2007 with 16 members and 46 guests present.

The working group chairman asked if anyone had information on patents related to the working group. It was noted that no one present at the meeting expressed knowledge of patents related to our document.

Next, the minutes of the previous meeting in Dallas were approved. The previous meeting in Dallas was primarily devoted to a discussion on temperature rise limits for contacts of load tap changers and de-energized tap changers. The discussion continued at the Dallas meeting. Finally, the following decision was made by a show of hands.

SHOW OF HANDS REGARDING TEMPERATURE RISE

15 votes to use the same temperature rise limits as in the IEC tap changer standard

0 votes to increase the temperature rise limits for de-energized tap changers to make them the same as for LTCs.

2 votes to decrease the temperature rise limits for LTCs to make them the same as for de-energized tap changers.

So the decision was made to use the IEC temperature rise limits.

A second subject discussed was the wording used to identify the contacts to be tested in the five dielectric tests.

For LTCs,

Test 1: (not changed) live part to ground

Test 2: (not changed) between phases, if applicable

Test 3: (changed to read) between the any two contacts that connect across the first and last taps of the tapped winding

Test 4: (changed to read) between any two contacts that connect across adjacent taps of the tapped winding, or any other contacts relevant to the LTC contact configuration

Test 5: (not changed) between diverter switch contacts in their final open position

For DETCs, the wording was not changed and is reproduced below for reference.

Test 1: live parts to ground

Test 2: between phases, if applicable

Test 3: between the first and last contacts of the DETC

Test 4: between any two adjacent contacts of the DETC

Test 5: any distance, that due to contact configuration will have a higher stress than the ones tested above

With these changes made, the working group now has a complete document ready for balloting. The working group chairman noted that the PAR for revision of C57.131 will expire in December, 2007 and will need an extension granted in order to complete the balloting.