

Mr. Evgeniy Vorobiev Chief Expert of Science & Technology Department of OJSC " FSK EES" Chalomeya street, 5a 117620 Moscow Russia

25/03/2005

Our Ref: 310/05/CO/FB/sg

Subject: Expert conclusion S2DA

Dear Mr. Vorobiev,

With have the pleasure to clarify and or to confirm the following points:

1 - 20 mm ICE TEST ON S2DA 550kV

Extention of ice test with 20 mm ice (Operation under severe ice conditions type test) from the S2DA 362 kV to the S2DA 550 kV is quite easily inferred once the following have been observed:

- the two disconnectors have the same ice covers;
- by using ice covers, there is no difference in the load observed while opening or closing in the case of ice compared with the case without ice;
- the only difference between the two disconnectors is the distance between input and output (open gap distance) and the height of the insulators;
- the height of the insulators does not influence the operating torque and moreover the design of the linkages themselves is so that the equivalent torque observed at the shaft of the operating mechanism while opening is the same in the two cases.

Thus, the type test report relative to the 362 kV S2DA disconnector (CESI GPS-A4/001019 dated 04/02/2004) is also valid for the disconnector in subject, i.e. the 550 kV one.

2 - Climate TEST

Test will be carried out from 26 April 2005 to 30 April 2005 in a Certified laboratory.

T&D

AREVA T&D S.p.A. - Via Meucci, 22 - 30020 Noventa di Piave (Venezia) - Italy Tel : +39 0421 309511 - Fax : +39 0421 65254



Laboratory have confirmed a minimum temperature of -50°C, -55°C will be confirmed by them in next time.

3 - Mechanical operation

Test with 5,000 CO will be carried out just after the end of production with the material for Aluminievaya project, after the test we will supply related certificate.

4 - HV Terminal plates

We will supply HV terminal plates in accordance with customer request and in fully compliance with our design or our need.

5 - Name plate

We will supply it in Russian language.

6 - NTC-3202

This document is giving all the technical clarification requested during last meeting.

7 - DSC design

The main contact will be protected with a cover.

Earthing switch will be supplied with manual or motor operating mechanism in fully accordance with customer requirements.

We remain at your disposal for any other clarification you may need.

Best Regards Fabio Bagolin

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