

Report.

Report number 08-66575A
Project number 70855023
Apparatus Power Transformer 180 MVA
Client STI.CTQC
Test location STI.CTQC, Shenyang, P.R. China
Manufacturer Hangzhou Qiantang River Electric
Group Co., Ltd.
(Hangzhou Qiandian Power
Transmission and Transformation
Equipment Co., Ltd.)

Arnhem, 21 August 2008

INSPECTION REPORT

Report number 70855023-TDT 08-66575A
Client STI.CTQC
China Transformer Quality Supervision Testing Center.
Hushitai county, Xinchengzi district,
Shenyang 110122
China
Reference Trust testing
Concerning Routine, type and special tests
Date Between 19 June and 28 June 2008
Place Shenyang, China
Object Power Transformer 180 MVA
Manufacturer Hangzhou Qiantang River Electric Group Co., Ltd.
(Hangzhou Qiandian Power Transmission and
Transformation Equipment Co., Ltd.)

REQUIREMENTS

Requirements as specified in the standards IEC 60076-1, IEC 60076-3, IEC 60076-5.

TEST PROGRAMME

The programme was specified by the client.
For the programme we refer to page 3.

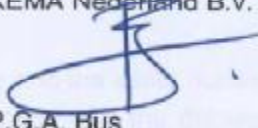
SUMMARY AND CONCLUSION

The results obtained relate only to the work ordered and to the material tested.
On the points examined, the requirements specified for the material tested were met.
The short circuit test was carried out by the single-phase method between phase and neutral. According to the IEC 60076-5 this is an agreement between purchaser and manufacturer.

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This B-report consists of:
98 pages incl. 9 annexes (87 pages)

KEMA Nederland B.V.



P.G.A. Bus
KEMA T&D Testing Services
Managing Director

Arnhem, 21 August 2008

MATERIAL DATA

Manufacturer	Hangzhou Qiantang River Electric Group Co., Ltd (Hangzhou Qiandian Power Transmission and Transformation Equipment Co., Ltd.)
Type	SFPSZ11-180000/220
Serial number	085008001
Rated power	180/180/90 MVA
Rated voltage	220/121,00/10,5 kV
Rated current	472,38/858,87/4948,72 A
Rated frequency	50 Hz
Number of phases	3
Tapping range	+10%, -10%
Number of steps/ tapping step	17 / 2.5%
Vector group	Yyn0d11
Cooling method	ODAF
Temperature class of insulation	A
Insulation levels	h.v. terminal : LI/LIC/ AC – 950/1050/395 kV h.v. neutral : LI/AC – 400/200 kV m.v.terminal : LI/LIC/ AC – 480/530/200 kV m.v. neutral : LI/AC – 250/95 kV l.v. terminal : LI/LIC/AC – 75/85/35 kV
Short-circuit impedance calculated To 180 MVA.	h.v.-m.v. : 14,0 % at 75°C h.v.-l.v. : 24,0 % at 75°C m.v.-l.v. : 9,0 % at 75°C
Total assembled mass	206000 kg

TEST OBJECT IDENTIFICATION

The test object was identified by checking the rating plate and the serial number.

During the untanking operation the test object was checked with the drawings enclosed in the STI.CTQC report, nr. CTQC/B-08.404.

The STI.CTQC test report regarding tests, oscillogrammes, curves, lists of test equipments, test circuits and manufacturer drawings are enclosed in this report as annex I.