

Customer : AREVA Sachsenwerk GmbH  
Order No. : 4500191205 v. 28.04.05 Pos. 010

Berlin, 13.06.05

## Test Certificate

3 Voltage transformers, Type EYE10b  
FB-No. 201017434/010  
Serial No. 05/5106301 to 05/5106303

### Primary winding

Class of insulation T52/E  
Insulation level [kV] 12/28/75  
Rated primary voltage [V] 6300: $\sqrt{3}$   
Rated voltage factor 1.9xU<sub>N</sub> (8h)  
Rated frequency [Hz] 50

### Secondary winding

|   | 1               | Auxiliary |
|---|-----------------|-----------|
| Rated secondary voltage [V]                             | 100: $\sqrt{3}$ | 100:3     |
| Rated output [VA]                                       | 30              | 100       |
| Accuracy class  | 0.2             | 3P        |
| Secondary thermal limiting current [A]                  | 8               | -         |
| Rated long time current of residual voltage winding [A] | -               | 6         |

According to the rules for instrument transformers: IEC 60044-2

The voltage transformers withstood the high-voltage test :

- Power frequency voltage withstand test on primary winding  
3kV, 50Hz, 1 min.
- Power frequency voltage withstand test on secondary windings and between sections  
3kV, 50Hz, 1 min.
- Induced voltage withstand test (inter-turn test by exciting the secondary winding)  
250Hz, 24 sec. (acc. IEC 60044-2 clause 9.2.1)
- Partial discharge measurement (combined with induced voltage withstand test according to 'procedure A', IEC 60044-2 clause 9.2.4.2)  
30 sec. background noise < 2pC

Terminal markings were found to be correct.

The voltage transformers comply with the limits of error for the respective accuracy class.

For results of accuracy test please see page 2 - 4.

Date of test: 08.06.2005

Instrument transformer test room

by order Krause

**Serial No. 05 / 5106301**

Fb.No.201017434/010

|                    |                 |         |               |         |                |         |
|--------------------|-----------------|---------|---------------|---------|----------------|---------|
| Sec. winding       | 1               |         |               |         | Auxiliary      |         |
| Rated ratio        | 6300:√3/100:√3V |         |               |         | 6300:√3/100:3V |         |
|                    | 7.5VA ; PF 0.8  |         | 30VA ; PF 0.8 |         | 0 VA ; PF 1    |         |
| U / U <sub>N</sub> | F [%]           | D [min] | F [%]         | D [min] | F [%]          | D [min] |
| 0.8                | +00.14          | -00.27  | -00.10        | +00.71  |                |         |
| 1.0                | +00.13          | +00.47  | -00.10        | +01.28  | +00.07         | +01.91  |
| 1.2                | +00.11          | +01.46  | -00.12        | +02.25  |                |         |

**Serial No. 05 / 5106302**

Fb.No.201017434/010

|                    |                 |         |               |         |                |         |
|--------------------|-----------------|---------|---------------|---------|----------------|---------|
| Sec. winding       | 1               |         |               |         | Auxiliary      |         |
| Rated ratio        | 6300:√3/100:√3V |         |               |         | 6300:√3/100:3V |         |
|                    | 7.5VA ; PF 0.8  |         | 30VA ; PF 0.8 |         | 0 VA ; PF 1    |         |
| U / U <sub>N</sub> | F [%]           | D [min] | F [%]         | D [min] | F [%]          | D [min] |
| 0.8                | +00.15          | +00.17  | -00.09        | +01.39  |                |         |
| 1.0                | +00.14          | +00.70  | -00.09        | +01.94  | +00.08         | +01.91  |
| 1.2                | +00.13          | +01.70  | -00.10        | +02.59  |                |         |

**Serial No. 05 / 5106303**

Fb.No.201017434/010

|                    |                 |         |               |         |                |         |
|--------------------|-----------------|---------|---------------|---------|----------------|---------|
| Sec. winding       | 1               |         |               |         | Auxiliary      |         |
| Rated ratio        | 6300:√3/100:√3V |         |               |         | 6300:√3/100:3V |         |
|                    | 7.5VA ; PF 0.8  |         | 30VA ; PF 0.8 |         | 0 VA ; PF 1    |         |
| U / U <sub>N</sub> | F [%]           | D [min] | F [%]         | D [min] | F [%]          | D [min] |
| 0.8                | +00.14          | -00.19  | -00.09        | +00.82  |                |         |
| 1.0                | +00.14          | +00.37  | -00.10        | +01.39  | +00.07         | +01.77  |
| 1.2                | +00.12          | +01.16  | -00.11        | +02.16  |                |         |