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Data Sheet 9.103/1

Questionnaire, for shielded HV-Laboratories

General information

Company/ institution: _____

Contact person: _____

Phone: _____

E-mail: _____

Application

Industrial test facility

Training/ education

Research institute

Other

please specify _____

Location and environmental conditions

Place of installation: _____

Altitude: _____

Average humidity, climate: _____

Earthquake resistance
required?

Performed Types of tests

Routine tests

Type tests

Special tests

Specification of test objects

Please fill in the objects with the maximum values

| Type of test object | System voltage [kV] | Dimension (H x W x D) [m] | Weight [t] |
|---|---------------------|---|-------------------------------------|
| Cable, VT, CT, Power Transformer, Circuit Breaker | | Diameter of cable drum Length of cable Dimension of transformer | Test object + transportation system |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| Example Cable | 400 kV | Cable drum D = 3.5 m, L = 3 m | 40 t |
| Example Power Transformer | 220 kV | h = 4 m , b = 3 m, d=2.5 m | 50 t |

Tests to be performed

Please fill in the maximum applied test voltages

| Test voltage | Applied y/n | Highest test voltage [kV] | Required background noise level |
|---|-------------|---------------------------|---------------------------------|
| AC withstand test | | | |
| Lightning impulse | | | |
| Switching impulse | | | |
| DC test | | | |
| Heating | | | |
| Combined and Composite Voltage Test: - AC/LI - AC/SI - DC/LI | | | |

Applied standards

| | IEC | IEEE | Others (e.g. GOST) |
|---|-----|------|--------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |

Expected power losses

Please fill in the maximum values

Specifications of the shielded room

Self-Supporting Construction (SSC)

Wall cladding with insulated understructure (of an existing building)

Desired dimensions of the shielded room

Please fill in clear inner dimensions

Length _____

Width _____

Height _____

Available space in the surrounding building (SSC only)

Please attach building drawing. Please note: A minimum assembly distance of 1 m on all sides and 2 m above the roof is required.

Length _____

Width _____

Height _____

Building drawing attached?

Conditions of the surroundings

Does a surrounding building already exist?

Max./ min. temperature inside the surrounding building + approx. max. air humidity

How much earth resistance does the subsoil have?

Which mains frequency is required?

Logistic Workflow

What is located in the immediate vicinity of the shielded room (production facilities, manufacturing)?

Please send sketches about the planned arrangement inside of the surrounding building. Where do the test objects enter the shielded room and where do they leave it?

Transportation system

Rails

Forklift

Air cushion

Required Features of the shielded room

Required doors

| | Qty. doors for test objects | _____ | Qty. personnel doors | _____ |
|-----------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|
| Electric installation | <input type="checkbox"/> | | | |
| | Basic package | <input type="checkbox"/> | Advanced package | <input type="checkbox"/> |
| Control Room | <input type="checkbox"/> | | | |
| | Inside shielded room | <input type="checkbox"/> | Outside shielded room | <input type="checkbox"/> |
| | Air-conditioned | <input type="checkbox"/> | | |
| Windows in shielded Room | <input type="checkbox"/> | Position | | _____ |

Required media inside shielded room

| | | | | |
|--------------|-----------------------------|--------------------------|--|--------------------------|
| | <input type="checkbox"/> | | | |
| | Compressed air | <input type="checkbox"/> | cooling water for cable terminations | <input type="checkbox"/> |
| | Other | | | _____ |
| Portal crane | <input type="checkbox"/> | | | |
| | Standard crane (max 2 t) | <input type="checkbox"/> | Lifting capacity | _____ |
| | Non-standard crane | <input type="checkbox"/> | Lifting capacity | _____ |

Planning of the shielded room and advisory service

Standard shielded rooms

The customer is free to plan the surrounding building using the overview plan of the shielded room, which is provided at the beginning of the project. For complex building situations, an additional on-site advisory service is recommended. This also includes advice on questions concerning:

- Grounding
- Work flow
- Power supply
- Safety concept

Non-standard shielded rooms

HIGHVOLT assists in the planning procedure with 2-3 advisory service visits on site and provides general drawings to coordinate the planning procedure. This also includes advice on questions concerning:

- Grounding
- Work flow
- Power supply
- Safety concept

Does the customer wish advisory service?

Erection of the shielded room

The planned erection time
of the shielded room is:

Desired delivery time:

Expected project
completion:

Further remarks or comments
