



Preliminary Call for Papers

International Colloquium on UHV in Association with CIGRE

New Delhi (India) – April 3-4, 2013

Organized by CIGRE Technical Committee in association with
CIGRE National Committee of India
Leading Study Committees : A3, B2, B3
Supporting Study Committees : A2, C4 and D1

CONFERENCE VENUE

International Trade Promotion Organisation (ITPO), Pragati
Maidan, New Delhi, India

Delhi - The Host City

Delhi is a place which has a high esteem history and culture to boast on, Historical monuments and ancient architecture makes the city a sought after destination for tourists and connoisseurs. The monuments in the city are very well preserved by the Archaeological Survey of India. Among the most popular monuments in Delhi are the Red Fort, Purana Quila, Qutab Minar, Iron Pillar, India Gate, Humayun's Tomb, Jantar Mantar and Lotus Temple.

BACKGROUND & SCOPE

Installed capacity of Indian Power System is presently 240 GW and the system is growing at an accelerated pace. Peak demand is expected to increase to more than 500 GW by 2027 for which installed capacity of about 700 GW is required. To meet the long-term power transfer requirement, a large transmission network is being planned in India interconnecting all the pocketed generating resources in Eastern, North-eastern Regions with bulk load centers. This development poses challenges like Right-of-Way (ROW), environmental aspects etc. All these challenges with manifold increase of power transfer requirement necessitate a quantum leap in transmission voltage level. The existing 400 kV lines can transfer about 600 MW power whereas 800 kV lines have a loading capacity of 1200 MW-2400

MW. The transmission capacity of 1200 kV lines is between 6000 MW to 8000 MW and hence they are considered as a much needed solution for meeting above challenges.

1200 kV UHV transmission technology has been developed for the first time in India. Insulation Co-ordination was the biggest challenge for selection of technical parameters of various equipments like Surge Arrestors, Transformers, Circuit Breakers, and Instrument Transformers. In this Colloquium various issues related to insulation coordination, selection of technical parameters, development of various equipments by manufacturers, testing at labs, field etc. shall be discussed. Renowned experts from all over the world are expected to share critical aspects of design of UHV technology.

The 1200 kV s/station in India has been commissioned during the first quarter of 2012. By the time, this colloquium is held, there will be performance experience of this test station for more than one year.

CONTACT

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PARTICIPANTS

The participants shall have an excellent opportunity to learn about the problems faced & experience gained with respect to erection, testing, commissioning, operation and maintenance of various equipment and transmission line components. The participants will also have the opportunity to visit the station and have a first hand experience of this important development.

The colloquium is meant for transmission and substation engineers, generation engineers, system operators, designers, manufacturers, erection agencies, regulators, research institutions, testing laboratories and universities.

PROGRAMME

- The Colloquium will be held for two days and will include panel sessions on 3-4, April 2013 to discuss the performance parameters of the 1200 kV test station.
- During paper sessions the authors will present their papers and will then participate in general discussions.
- Optional technical visit to 1200 kV National Test Station of Power Grid at Bina (M.P.) has been arranged for delegates on 5-6 April 2013. The programme for Technical visit is being finalised. The details after finalization shall be put up on the CIGRE Paris and India website.

MAIN TOPICS

System/UHVAC Substation and Line

- 1200 kV Substation layout and design consideration
- 1200 kV Transmission line design
- Insulation coordination for UHVAC system

Equipment Development

- Design and manufacturing issues, factory tests of
 - o UHVAC Transformers
 - o UHVAC Surge Arresters
 - o UHVAC Instrument Transformers
 - o UHVAC Switchgear
 - o Insulators, hardware, clamps and connectors

Installation and Commissioning

- UHVAC Installation and field testing experience
- Maintenance and operational issues

Operational Experience

- UHVAC Transmission line operation
- UHVAC Substation operation

Topics related to subject of CIGRE Study Committees

- A2 : Transformers • A3 : High Voltage Equipment
- B2 : Overheadlines • B3 : Substation
- C4 : System Technical Performance
- D1 : Materials and Emerging Test Techniques

SUBMISSION OF SYNOPSIS

Participants wishing to present papers are invited to submit their synopsis (500 words) before 31st October 2012 to konstantin@papailiou.ch

Each synopsis must indicate the topics that will be addressed. The Name, Title, Company, Affiliation, E-mail and Full address of the author shall also be given.

LANGUAGE

The papers must be written in English.

COMMITTEES

The Technical Committee shall be chaired by
Mr. Mark Waldron, Chairman CIGRE Technical Committee
Mr. Konstantin O. Papailiou, Chairman CIGRE SC B2

Members

Mr. Claude Rajotte, Chairman CIGRE SC A2
Mr. Hiroki Ito, Chairman CIGRE SC A3
Mr. Terry Krieg, Chairman CIGRE SC B3
Mr. Pouyan Pourbeik, Chairman CIGRE SC C4
Mr. Josef Kindersberger, Chairman CIGRE SC D1

The Local Technical Committee is being formed which shall be notified on CIGRE India website.

PUBLICATION OF PAPERS

- The papers will be available for downloading from CIGRE India website before the colloquium for all registered delegates
- A report on the colloquium will be prepared after the colloquium and will be available on the website of CIGRE India.

REGISTRATIONS

The general programme of the colloquium will be issued later on with all the relevant information like technical programme, registration, accommodation, etc. Further information of the Colloquium shall then be made available on CIGRE-India website.

DEADLINES

Authors are kindly requested to take note of the following deadlines:

Receipt of synopsis (by Chairman SC B2)	- 31 st October 2012
Notification of acceptance	- 30 th November 2012
Receipt of full papers (by CIGRE India)	- 15 th February 2013