



## Study Committee B4 - HVDC and Power Electronics

**Chairman**        Mohamed Rashwan  
**Secretary**        Joanne Hu

**Session:**        SC Meeting, SC B4  
**Date:**            26-August-2016  
**Place:**            Room 241  
**Venue**            Palais des Congrès  
**Time**              9:00 to 17:30

### Draft Agenda

Item	Description	Responsible
1.1	Cigre Antitrust Guidelines	Mohamed Rashwan
1.2	Opening remarks	Mohamed Rashwan
1.3	Introduction of the new regular members	
2.0	Minutes of Agra meeting	Mohamed Rashwan Joanne Hu
3.0	Technical Committee Activities Report	Mohamed Rashwan
3.1	2016 session report	Carl/Nalin
3.2	2016 Tutorial	Mohamed
3.3	B4 Website	Prieto Garcia
4.0	Advisory Groups	
	4.1 AG 01: Strategic Advisory Group	Mohamed Rashwan Joanne Hu
	4.2 Green book on FACTS	Bjarne Andersen
	4.3 HVDC Compendium	Makino-Narinder
	4.4 AG 04: HVDC & FACTs System Performance	Narinder Dhaliwal
5.0	<p><b>Working Group Reports</b></p> <p><i>Recognitions of WGs that have completed their assignments</i></p> <p>B4.54 Guidelines for life extension of existing HVDC systems</p> <p>B4.55 HVDC Connection of offshore wind power plants</p> <p>B4.56 Guidelines for preparation of DC Grid Code</p> <p><i>TBs have completed 60-day review and are being finalized</i></p> <p>WG B4.53 Guidelines for procurement and testing of STATCOMs</p> <p>WG B4.61 General Guidelines for HVDC Electrode Design</p> <p><i>TBs are being reviewed</i></p> <p>WG B4.62: Connection of Wind Farms to Weak AC</p> <p>JWG B4/C1.65: Recommended voltages for HVDC grids</p>	Mohamed Rashwan
	5.1 WG B4.58; Devices for load flow control and methodologies for direct voltage control in a meshed HVDC Grid	Kerstin Lindén



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	<b>5.2 JWG B4/B5.59: Control and Protection of HVDC Grids</b>	<b>Kees Koreman</b>
	<b>5.3 WG B4.60: Designing HVDC Grids for Optimal Reliability and Availability performance.</b>	<b>Norman MacLeod</b>
	<b>5.4 WG B4.61: General Guidelines for HVDC Electrode Design</b>	<b>Joanne Hu</b>
	<b>5.5 B4.63: Commissioning of VSC HVDC Schemes</b>	<b>Les Brand</b>
	<b>5.6 B4.64: Impact of AC System Characteristics on the Performance of HVDC schemes</b>	<b>Jef Beerten</b>
	<b>5.7 WG B4.66 Implications for harmonics and filtering of the staggered installation of HVDC converter stations in proximate locations</b>	<b>Fernando Cattan</b>
	<b>5.8 WG B4.67 Harmonic aspects of VSC HVDC, and appropriate harmonic limits</b>	<b>Nigel Shore</b>
	<b>5.9 WG B4.68 Revision of Technical Brochure 92 – DC Harmonics and Filtering</b>	<b>Nigel Shore</b>
	<b>5.10 JWG A3/B4.34: Technical requirements and specifications of state-of-the-art DC switching equipment</b>	<b>Christian Frank</b>
	<b>5.11 JWG C4/B4.38: Network Modelling for Harmonic Studies</b>	<b>Zia Emin</b>
	<b>5.12 WG B4-69 Minimizing loss of transmitted power by VSC during</b>	<b>Dennis Woodford</b>
	<b>5.13 WG B4-70 Guide for Electromagnetic Transient Studies involving VSC converters</b>	<b>Dennetiere Sébastien</b>
	<b>5.14 WG B4-71 Application guide for the insulation coordination of Voltage Source Converter HVDC (VSC HVDC) stations</b>	<b>Mojtaba Mohaddes</b>
	<b>5.15 WG B4.72 – DC grid benchmark models for system studies</b>	<b>Ting An</b>
	<b>5.16 JWG B4/B1/C4.73 – Surge and extended overvoltage testing of HVDC Cable Systems</b>	<b>Markus Saltzer</b>

<b>6.0</b>	<b>Present &amp; Future meetings</b>	
	<b>6.1 Preferential subjects for Paris 2018</b>	<b>Mohamed Rashwan</b>
	<b>6.2 Winnipeg 2017</b>	<b>John McNichol</b>
	<b>6.3 Tutorials for 2017</b>	<b>Mohamed Rashwan</b>
	<b>6.4 2019 Meeting</b>	<b>Nombuso Ramaite</b>

<b>7.0</b>	<b>New Working Group Proposals</b>	<b>Mohamed Rashwan</b>
	<b><u>7.1</u> Guide to Develop Real-Time Simulation Models (RTSM) for HVDC Operational Studies</b>	<b>Mohamed/Joanne</b>
	<b><u>7.2</u> Assessment of lab losses measurement of VSC valves</b>	<b>Yanny Fu</b>
<b>8.0</b>	<b>Reports from other Organisation Liaisons (maximum 10 minutes each)</b>	



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	<b>8.1 IEC TC115</b>	<b>Yanny Fu</b>
<b>9.0</b>	<b>Reports from Other Committees or Research/non- commercial Organizations</b> <i>(Electronic format reports 1 week in advance of the meeting, plus 5 minutes maximum presentation – Advise the Secretary of proposal to make a presentation)</i>	
	CEPEL	
<b>10.</b>	<b>HVDC and FACTS Schemes Under Construction or Planned</b> <i>(PPT Presentations to be sent to Secretary at least 1 week before the SC meeting. Time for presentation will be limited to 5 minutes for presentations received 1 week before the SC meeting, and to 2 minutes if presentation is received after this deadline.)</i>	
<b>11.</b>	<b>Operational Experiences of Existing HVDC and FACTS Schemes</b> <i>(PPT Presentations to be sent to Secretary at least 1 week before the SC meeting. Time for presentation will be limited to 5 minutes for presentations received 1 week before the SC meeting, and to 2 minutes if presentation is received after this deadline.)</i>	
	<b>11.1 CSG VSC application in CSG</b>	<b>Rao Hong</b>
<b>12.</b>	<b>Any other business</b>	<b>All</b>
<b>13.</b>	<b>Adjournment</b>	<b>Mohamed Rashwan</b>