

## CIGRE Study Committee N° C1

### PROPOSAL FOR CREATION OF A NEW WORKING GROUP \*

|  |  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
|--|--|---------------------------|------------------|------------------------------------|-------------------|-----------------------------------|--------------|-----------------------|------------------------|---|-----------|---|-------------|----------------------|---------------|
| <b>WG* N° C1.9</b>   | <b>Name of Convenor :</b> Riaz Vajeth (South Africa) |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| <b>Title of the Group :</b> Planning Issues for Newly Industrialised and Developing Countries (Africa)   |  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| <p><b>Background :</b> The main objective of the working group is to document issues, methods and approaches to carrying out power system planning by developing and newly industrialised countries. This is a continuation of WG C1.26 that focused on ASEAN countries and utilities. This WG C1.9 will now focus on African countries and utilities. The report could be referred to by regional utilities to benchmark planning methods and strategies.</p> <p><b>Scope :</b>The scope of work of the WG will be to:</p> <ol style="list-style-type: none"><li>1. Identify the industry boundaries of generation, transmission, distribution and retail businesses and their approach to development plans, Grid Codes and roles.</li><li>2. Load and energy forecasting in terms of the economic growth factors, forecasting approach and methodology used.</li><li>3. Planning and design criteria used for generation and transmission planning.</li><li>4. Current transmission network topology, loads and voltages.</li><li>5. Planning approaches and methods in terms of co-ordination across the industry, role of interconnections, environmental issues considered and general network planning.</li><li>6. Financial issues covering the required level and source of funds, investment plan, arrangements for private investments and the lending agencies.</li><li>7. Specific technical issues such as short circuit levels, application of new technology, defence/recovery plans to deal with power failure, network configurations , impact of local generation, voltage stability and reactive power requirements.</li><li>8. Human Resource issues around skills to perform the planning work, and the level of outsourcing.</li></ol> <p><b>Deliverables :</b></p> <table><tr><td>Approve TOR by C1 members</td><td>end October 2004</td></tr><tr><td>Approve TOR by Technical Committee</td><td>end November 2004</td></tr><tr><td>Establish WG and identify members</td><td>end December</td></tr><tr><td>First progress report</td><td>April 2005(C1 meeting)</td></tr><tr><td>First draft final report to C1 members (on C1 web-site)</td><td>July 2006</td></tr><tr><td>Ratify draft final report at C1 meeting</td><td>august 2006</td></tr><tr><td>Publish final report</td><td>December 2006</td></tr></table> <p>Target Groups: Power Transmission System Managers, Planners, Operators and Owners<br/>Report to be published in Electra or technical brochure with summary in Electra.</p> <p><b>Time Schedule :</b> start : January 2005 <span style="float: right;"><b>Final report :</b> December 2006</span></p> |  | Approve TOR by C1 members | end October 2004 | Approve TOR by Technical Committee | end November 2004 | Establish WG and identify members | end December | First progress report | April 2005(C1 meeting) | First draft final report to C1 members (on C1 web-site) | July 2006 | Ratify draft final report at C1 meeting | august 2006 | Publish final report | December 2006 |
| Approve TOR by C1 members  | end October 2004                                     |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| Approve TOR by Technical Committee   | end November 2004                                    |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| Establish WG and identify members  | end December   |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| First progress report  | April 2005(C1 meeting)                               |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| First draft final report to C1 members (on C1 web-site)  | July 2006  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| Ratify draft final report at C1 meeting  | august 2006  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| Publish final report   | December 2006  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |
| <b>Comments from Chairmen of SCs concerned :</b>   |  |                           |                  |                                    |                   |                                   |              |                       |                        |   |           |   |             |                      |               |

**Approval by Technical Committee Chairman :**

**Date :**