

Meeting Period

From 10:00 a.m. to 2:00 p.m.

Venue

Madinah- Movenpick Hotel

Sponsor

Marafiq

Members Attendance

1-	Engr. Hamed Al-Saggaf	Saudi Electricity Company	Chairman
2-	Engr. Fayez Al-Jabri	Electricity & Co-generation Regulatory Authority	Regulator
3-	Dr. Abdullah Al-Abbas	Saudi Electricity Company	Generation
4-	Engr. Ahmed Al-Furaih	Saline Water Conversion Corporation	Generation
5-	Dr. Mahmoud Zayan	ARAMCO	Generation
6-	Engr. Nezar M. Al-Khanaizi	Saudi Electricity Company	Transmission
7-	Engr. Mohammad Al-Zahrani	Saudi Electricity Company	Transmission
8-	Engr. Salman A. Al-Zahrani	MARAFIQ	Transmission
9-	Engr. Mohammad Al-Taher	Saudi Electricity Company	Distribution
10-	Engr. Fouad Al-Abdulqader	Saudi Electricity Company	Distribution
11-	Engr. Shafi Zeitoun	ARAMCO	Distribution
12-	Engr. Khalid Al-Nafey	MARAFIQ	Distribution
13-	Engr. Rasheed Al-Shubaili	SABIC	Directly-connected Customers

Guests Attendance

1-	Engr. Ramzi Kamfar	Saudi Electricity Company	Generation
2-	Engr. Sheikh Nazemuddin	Saudi Electricity Company	Generation
3-	Engr. Jamal Buqshan	ARAMCO	Generation
4-	Engr. Faisal Al-Yemni	ARAMCO	Distribution
5-	Engr. Khalid Al-Omrani	SABIC	Directly-connected Customers

Secretariat

1-	Engr. Yousef Al-Zahrani	Saudi Electricity Company	Secretariat
2-	Mr. Sultan Al-Amri	Electricity & Co-generation Regulatory Authority	Secretariat

SN	Clause	Responsibilities
1-	<p>Review of previous MoM, and action plan</p> <ul style="list-style-type: none"> ▶ Committee concurred the last action plan. ▶ Committee noted that the Secretariat is to update GCSC page as per the SAGC page. ▶ Dr. Zayan noted to add links in GCSC webpage to Amendment and Derogation Record for the original request and the decision taken. 	<p>Secretariat</p> <p>Secretariat</p>
2-	<p>Presentation of the 3rd Annual Report, and get it agreed.</p> <ul style="list-style-type: none"> ▶ Al-Saggaf introduced the annual report to the committee. ▶ Dr. Al-Abbas requested the committee to publish printed copy of the report to different stakeholder. ▶ Al-Saggaf informed that the Company usually published the report electronically through the web, and send a printed copy to ECRA. ▶ Committee requested ECRA to published at least 50 copies of the report. ▶ Committee agreed to modify Chart 5 of the report by including the attendance of Alternates. ▶ Fayez suggested adding a sentence at the end of clause b and c at page 12, to brief the results of the studies. ▶ Khalid pointed that Aramco Derogations attached in its license was not included in the record ▶ Al-Saggaf stated that the record include only the requests submitted to the committee. ▶ Shafi mentioned that Captive cogeneration can be added to the code so, all companies having similar technical conditions will be dealt with as captive-Cogen. Moreover, Saudi Aramco generation is used for industrial purposes and not as the case of Utility companies. ▶ Fayez clarified that any company hasing similar technical conditions will be granted similar derogations. ▶ Al-Saggaf requested the Members to send and finalize their comment on the report within two weeks. 	
3-	<p>Discuss the progress for the sub-committee of reviewing SEC derogation requests</p> <ul style="list-style-type: none"> ▶ Dr. Al-Abbas presented a summary of the existing units as per different manufacturers. He informed the committee of the correspondences to manufacturers and their responses regarding underfrequency and overvoltage cases as mentioned in the sub-committee minute of meeting at 12\1\2011. 	

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	<ul style="list-style-type: none"> ▶ Ahmad pointed that according to clauses 4.4.4.4 (iv), and 4.4.3.2 (v) the generator are allowed to not comply with specified limits for voltage and frequency in certain conditions to protect its plants. Thus, no need to request derogation in those conditions. ▶ Al-Saggaf clarified that clause 4.4.4.4 (iv), and 4.4.3.2 (v) is made for unexpected operational conditions and not applicable to these cases which known in advance that can be complied with the SAGC. ▶ Ahmad and Dr. Al-Abbas added that the manufacturer response is based on maximum continuous rating (MCR). ▶ Al-Saggaf clarified that MCR is required for $\pm 5\%$ as specified in clause 2.5.5.6 of SAGC, and +10% voltage limits are for the system not on generation terminals. ▶ Dr. Zayan pointed out that clause 2.5.5.14 page26 of SAGC stated that generator to comply with voltage limit referred in clause 2.4.3 ▶ Ahmad added that the limit specified in clause 2.5.5.14 is required for transient condition not for normal condition. ▶ The sub-committee was directed to clarify from manufacturers about +10% voltage capabilities with compensation of output power. ▶ Dr. Al-Abbas added that the manufacturers have shown their responses very clearly as well as the corresponding references so there is no need to contact the manufacturers again and such issue should be resolved by either the sub-committee or the committee. ▶ Committee insisted that the sub-committee should finalize voltage limit study. 	<p>Sub-committee</p> <p>Sub-committee</p>
4-	<p>Voting on a set of derogations submitted by SEC Generation- Western Operating Area- regarding voltage variation of generating unit: 09D021,09D024,09D027,09D029,09D032,09D035,09D038, 09D041,09D045,09D049,09D053,09D056,09D059,09D062, 09D065,09D068,09D071.</p> <ul style="list-style-type: none"> ▶ The committee decided to defer voting until the sub-committee complete voltage limit study. 	
5-	<p>Voting on a set of derogations submitted by SEC Generation - Western Operating Area- regarding frequency variation of generating unit: 09D023,09D026,09D031,09D034, 09D037,09D040, 09D064.</p> <ul style="list-style-type: none"> ▶ It is postponed to the next meeting, due to shortage of time. 	

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6-	Discussion of a suitable mechanism to sort all approved recommendations to be included in the new publication of the Code. ▶ It is postponed to the next meeting, due to shortage of time.	
7-	Proposing a mechanism to insure a proper implementation of the Code. ▶ It is postponed to the next meeting, due to shortage of time.	
8-	Communication Channel over the internet. ▶ It is postponed to the next meeting, due to shortage of time.	
9-	Determining the date and venue of the next meeting ▶ The next meeting will be conducted on Tuesday 24 May 2011, the venue will be in Khobar and it will be hosted by SWCC.	Ahmad, and Secretariat
10-	Any other business ▶ Nil.	
11-	Acknowledgement of Engr. Shafi Zeitoun, the previous GCSC member ▶ The committee appreciated and acknowledged Engr. Shafi Zeitoun for his participation and efforts during his membership in the GCSC.	
Acknowledgement of Marafiq ▶ The committee thanked and appreciated Marafiq for the generous hosting for the meeting, and the warm welcome and hospitality.		

Hamed Abdallah Al- Saggaf

**Grid Code Supervisory
Committee, Chairman**

cc: Electricity & Co-generation Regulatory Authority; and
All Members and participants