

Meeting Period

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

Venue

Khobar- Holiday Inn Hotel

Sponsor

Saudi Aramco Company

Agenda

- 1- Review the previous MoM, and action plan.
- 2- Discuss the progress for the sub-committee of reviewing SEC derogation requests
- 3- 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.
- 4- 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.
- 5- Comparison for voltage and frequency limits of the SAGC and International grid codes.
- 6- Discuss preparing the MoMs and annual reports of the committee in English
- 7- Decide date and venue of the next meeting
- 8- Any other business
- 9- Acknowledge Engr. Ali Al- Shubaili, the previous GCSC member.

Members Attendance

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

11-	Engr. Rasheed Al-Shubaili	SABIC	Directly-connected Customers
Alternates Attendance			
1-	Engr. Ramzi Kamfar	Saudi Electricity Company	Generation
2-	Engr. Faisal Al-Yemni	ARAMCO	Distribution
Guests Attendance			
1-	Engr. Sheikh Nazemuddin	Saudi Electricity Company	Generation
Absence with replacement			
1-	Dr. Abdullah Al-Abbas	Saudi Electricity Company	Generation
2-	Engr. Shafi Zeitoun	ARAMCO	Distribution
Secretariat			
1-	Yousef Al-Zahrani	Saudi Electricity Company	Secretariat
2-	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"> ▶ Hamed noted that request 09D064 was missed from last MoM, clause 6, since the request is for over-frequency case. ▶ Hamed noted that the OLTC derogation requests were approved by ECRA, and post it in the web portal. 	Secretariat
2-	<p>Discuss the progress for the sub-committee of reviewing SEC derogation requests</p> <ul style="list-style-type: none"> ▶ Ahmad noted that manufacturers would not provide data of the capabilities of existing unit after 20 years of operation without knowing the operational conditions for each unit. ▶ Hamed highlighted that IEEE C.37.106-2003 and IEC 60034-3:1996 standards are consistent with the SAGC voltage and frequency limits. ▶ Ramzi presented a brief summary of manufacturers' responses- regarding underfrequency and overvoltage cases- and ask the committee to accept the requests as it is, since the manufacturers did not provide complete details. ▶ Khalid noted that the committee should defer voting on the requests until the sub-committee send a unified recommendation to the committee, to decide on the issue. ▶ Committee examined the responses received from manufacturers 	

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	and pointed that it is not complete and convincing.	
3-	<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 to the next meeting, to allow the sub-committee to send a unified recommendation on the issue. 	Sub-committee
4-	<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"> ▶ The committee decided to defer voting to the next meeting, to allow the sub-committee to send a unified recommendation on the issue. 	Sub-committee
5-	<p>Comparison of voltage and frequency limits of the SAGC and International grid codes</p> <ul style="list-style-type: none"> ▶ Hamed presented a summary of the study on comparison of voltage and frequency limits of the SAGC and International grid codes, and he showed that most of other grid codes were more stringent than the limits of the SAGC. ▶ Zayan raised a concern about the necessity of OLTC availability at Step-up Transformers. ▶ Hamed mentioned that most countries requested it in their grid codes. ▶ Hamed pointed out the SAGC was developed based on the international practices and the existing operational standards of Saudi Electricity Company. ▶ Committee appreciated Hamed efforts for this comprehensive study. 	
6-	<p>Discuss issuing the MoMs and annual reports of the committee in English</p> <ul style="list-style-type: none"> ▶ The committee agreed by majority (11 votes) on preparing the minutes of meetings and the annual reports in English instead of Arabic, since most of the topics are technical and it will be more 	

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	<p>fluent to record it in English for consistency with SAGC and GCSC Constitution. Also, the GCSC received many clarifications from other users and consultants whose are English speakers and they would like to know about derogations granted and they are interested to know about the committee achievements.</p>	
7-	<p>Decide date and venue of the next meeting</p> <ul style="list-style-type: none"> ▶ The committee agreed to conduct the next meeting on Wednesday 16 February 2011, the venue will be determined later and it will be hosted by Marafiq. 	Khalid, and Secretariat
8-	<p>Any other business</p> <ul style="list-style-type: none"> ▶ Hamed asked all members to send their views and proposed topics for the GCSC Annual Report 2010 to Secretariat. The report will be issued in March 2011. 	All Members
9-	<p>Acknowledgement of Engr. Ali Al- Shubaili, the previous GCSC member</p> <ul style="list-style-type: none"> ▶ The committee appreciated and acknowledged Engr. Ali Al-Shubaili for his participation and efforts during his membership in the GCSC. 	
	<p>Acknowledgement of Aramco</p> <ul style="list-style-type: none"> ▶ The committee thanked and appreciated ARAMCO 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