

PROJECT MEETING MINUTES

Project Group: Three Phase

Project Title: Excitation Control for Synch Generator

Meeting Objective: Status Updates

Date: 4/14/2015

Time: 5:30 PM

Location: GJL 218

Facilitator: Jacob Nelson

Minutes: Jacob Nelson

Preparation Requirements:

1. Please Bring: Logbooks

AGENDA ITEMS

1. Old Business:

- a) Approve old meeting minutes.

- b) Fred's Topics

- See line item 2.

2. Discussion regarding Norman's assignments.

Carlos has a capability curve, but there is a math error that will need to be corrected. The exciter has been mounted by Greg but no wiring work has been done yet.

Jacob has the ABB digital model coded into RScad, Over and under excitation limiters are included but none of the others. There is a question as to what base the norm values provided by the generator model are (exciter needs pu inputs). Further testing will be required.

Gary has generated questions and called ABB support for answers. No answers have been received yet. Jacob shared the archive link for the support tools and documentation that was provided by ABB. So Gary can familiarize himself with the CMT1000 software. There is no list of variables that need to be calculated or calculations provided by Gary yet.

Gary posed a question about the difference, and necessity, of the "main" and "auxiliary" power inputs for the exciter. Fred recommended doing a low voltage test to answer this question. Test outline follows:

- Start exciter with Auxiliary power

- Connect a Main power

- Remove Auxiliary power input

According to the user manual the auxiliary power input supplies the controller and the main supplies the rectifier (exciter output), there is no shown interconnection between these two supplies. If the exciter's controller powers off in the above test, then the lack of an interconnection will be proved.

3. Discussion regarding Expo.

Technical presentation will be previewed at the 4/28 meeting (5:30 PM GJL 218). Feedback will be used to revise the presentation in preparation for expo. An invitation should be extended to Norman.

Expo poster work should be done by Thursday 4/16 so drafting can begin.

Expo Poster assignments:

- Capability Curve: Carlos
- Exciter research: Jacob
- Major decisions: Jacob
- RTDS (model and description): Jacob
- Wire Diagram: Carlos

4. Agenda items for next meeting.

5. Schedule next meeting. Date: 4/21/2015 Time: 5:30 P.M. Location: GJL 218

6. Additional Comments:

7. Adjourn: Time 6:50 P.M.

Meeting Attendees:

Minutes Approval:

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