Meeting notes for Working Group D3 Nashville

Chair: Hanna Abdallah

Meeting May23, 2012

1. Introduction of member and guests
    a. There were __ members and __ guests presents at this meeting. See attendance list at the end of the minutes.
    b. There were a total of 34 members in the working group.
2. IEEE Patent Slides were shown.
3. Review meeting notes-Nashville. No corrections noted.
4. Review and update meeting agenda
5. Possible Presentations in the Future
6. Discuss Assignments – Team Leaders
    a. Clarify Fault current that might be used in the calculations
        i. We discussed the issue of 80 kA breakers and fault currents.
        ii. Probability to see the maximum current.
        iii. Combination of loads
        iv. The actual load on insulators are 50% based on static fault current versus dynamic. The calculations are quite conservative.
        v. Boris and Thomas Proios and Ryan Stargell have volunteered to be added to Team #1. (Hanna, and Lucas Klien) – Don team leader.
        vi. Tom Amundsen will review statement on X/R by August for review by the rest of the working group.
    b. Team #2 Annex C ampacity Calcs – verify equations presented in the guide
        i. Equation C.7 – Chuck discussed the comparision between 605, 738, and SW Rate program
        ii. Hanna show difference between IEEE simplified and the calculated method.
        iii. Work is complete
        iv. David Stamm and Chuck Haahr will present the list of assumptions that will be used for the ampacity tables at Nashville.
    c. Team #3 Update ampacity tables using the updated equations
        i. Chuck to pick suggested variables and present at Nashville.
        ii. Boris will send some tables for comparison sake.
        iii. Chuck to discuss copyright issues.
        iv. Input values were agreed to.
    d. Team #4
        i. Had two phone conversations. Agreed that the tables were pretty good.
        ii. Structural engineers use fault current to calculate busses.
        iii. Watched Hanna's Cigre video on bus faults.
        iv. Need some load combinations and load factors. We discussed whether load combinations are necessary, or we refer to ASCE

v. Tom Amundsen is task leader
vi. Team will have presentation of findings for Nashville.

e. Team #5
f. Team #6
    i. Bus design and insulator selection tutorials subcommittee
        1. Explanation of which equations to use and why, corona, ampacity, strain bus design.
        2. Run through examples and compare with FEM models.
        3. Team members: Jean-Bernard (lead), Hanna,
        4. Team will present outline of tutorial by Nashville meeting.
g. Add Team to review 738.

7. IEEE605-2008 Errors
8. New PAR
    a. Hanna wants new PAR by Nashville meeting.
9. Other – damping material for conductors
    a. From Section 12.5 or 12.6.
        i. WG wants to remove statement that ASCR, other materials are fine as damping materials.
        ii. Add statement about corrosion b/w copper and aluminum.
    b. Guidance on connection-type effects on vibration.
    c. Team leader: Jean-Bernard
10. Other – freezing rain
    a. Will clarify effects of freezing rain radial ice
11. Next meeting Nashville – October, 2012

Submitted for review,

Chuck Haahr

Attendance:

Chair	Hanna	Abdallah	Power Engineers	Phoenix
Vice-Chair	Jean-Bernard	Dastous	Hydro Quebec/IREQ	Varennes
Guest	W. Bruce	Dietzman	Oncor Electric Delivery Company	Ft. Worth
Member	Dave	Kelley	Salt River Project	Phoenix
Member	Dave	Kelley	Salt River Project	Phoenix
Member	Donald	Rogers	Bechtel	Frederick, md
Member	Boris	Shvartsberg	Public Service Electric and Gas Comp	Newark
Guest	Doug	Smith	SEFCOR, Inc.	Griffin
Guest	James	Sosinski	SAIC	Orlando
Member	Don	Wengerter	Wisconsin Public Service	Green Bay, WI

Member	Brian	Stephens	Ameren	Decatur
Member	Ryan	Stargel	Tennessee Valley Authority	Chattanooga
Secretary	Charles	Haahr	Sega Inc.	El Dorado
Member	David	Stamm	Sega, Inc.	Lawrence
Member	Bob	hobbs	Global Product Manager	Kennesaw
Member	Ramani	Ayakannu	ABB, Inc	Raleigh
Guest	Gary	Beane	TRC Engineering	Augusta
Guest	Keith	Graham	Dominion	Richmond
Guest	Christian	Robles	Entergy	Kenner
Member	Thomas	Amundsen	Sargent & Lundy, LLC	Chicago
Member	Tom	Proios	SAIC Energy, Environment & Infrastructure	Lisle
Guest	Alan	Beith	Booth and Associates, Inc.	Raleigh
Guest	Michael	Kirkland	Progress Energy Carolinas	Raleigh
Guest	Sarah	Puffer	Progress Energy Carolinas	Raleigh
Guest	Dean	Gause	Progress Energy Carolinas	Raleigh
Guest	Everett	Graham	Progress Energy Carolinas	Raleigh
Guest	Reggie	Maniego	Progress Energy	Lake Mary
Guest	Harsh	Naik	Oncor Electric Delivery Company	Fort Worth
Guest	Scott	Taylor	ABB	Raleigh
Guest	Jonathan	McDonald	ABB	Raleigh

Plus four others not in 123: John Winston, Marshall Bird, Shannon William and Eddie Shomate.