Meeting called by: John McDonald

Board Members: Jamshid Afnan, George Bjelovuk, John Caskey, Paul Centolella, Vint Cerf, Paul De Martini, Rik Drummond, Brent Hodges, Mladen Kezunović, Wayne Longcore, Brian Markwalter, John McDonald, Mark McGranaghan, Stephen Muchlinski, John Nunneley, Perry Pederson, Todd Ryting, Bob Saint, Tariq Samad, Rich Scholer, Chuck Shih, Robby Simpson, Matthew Theall, Scott Ungerer, Kenneth Van Meter (Names in bold were not present)

Ex-officio Members: George Arnold, Ron Ambrosio, Steve Widergren, Marianne Swanson, Erich Gunther

SGIP GB Administrator: Erich W. Gunther

Meeting Minutes - Approved

Sunday, December 4, 2011

6:00 p.m. – 6:30 p.m. Buffet Dinner

6:30 p.m. – 6:45 p.m. Call to Order
Establish Quorum
Approval of Agenda

Consent Agenda
1.1.1 BOPWG Report
1.1.2 CMEWG Report
1.1.3 IPRWG Report
1.1.4 SGIP Update Reports

6:30 p.m. – 6:36 p.m. Approval of November 10, 2011 Meeting Minutes

George Arnold welcomed director of the engineering laboratory, Shyam Sunder.

Motion to approve agenda by Vint Cerf was seconded by Brian Markwalter and carried.

Motion to approve the 11/10/2011 minutes by Vint Cerf was seconded by Steve Muchlinski and carried.
6:45 p.m. – 7:15 p.m.  
(30 min.)

**SGIP Business Model**

Plan due to NIST later in December, final document coming in January 2012, will be delivered to GB

Benchmarking used for ideas for transition from federal to private/public to fully self-sustaining private entity

- Malcolm Baldridge Award Program
- IETF, and the organizations that preceded it (Internet Activities Board, etc.)

Discussion about the value proposition for organizations to fund SGIP – what is the value proposition?

- Testing organizations will find value in “Compliant with SGIP”
- SGIP becomes collaboration of collaborations, and brings value by providing a single coordination point for smart grid standards activities
- Outreach to stakeholders and build confidence as trusted facilitator

Question regarding how the decision on business plan approach will be made.

- George Arnold suggested that the Governing Board should own this
- Smart Grid Federal Advisory Committee (SGFAC) would provide input

General Discussion converged on two issues to be addressed – organizational structure and funding model for SGIP going forward.

Discussion on whether the organization is mature enough to be funded by the private sector

- questions on standards vs. maturity and versions,
- continuous improvement process/model
- how do standards stay in the Catalog of Standards (CoS) vs. evolving applications spaces

Discussion on the amount of funding required to operate the SGIP

- The Board needs to understand the magnitude of the funding to fully assess the different models that will be proposed
- Noted that the SGFAC was asked to investigate this as well
- Noted that careful evaluation of overlaps with other efforts should be included

The Board would like clarity on exactly how the transition will take place.

Question regarding what happens to current work products, with respect to intellectual property rights, since they were created under a federal funding model

- All current work products should be considered in the public domain.

The approach will take place in three phases:

- plan + board review,
- transition
- up and running.

NIST’s Goal: Private sector funding for FY2013

**ACTION:** Progress report at Jan. GB meeting by Paul Boynton.
**Smart Grid Mapping Tool**

Ken Caird

Caird is United States National Committee representative on IEC’s SG3.

Caird presentation, including demo of a website.

Objective is for IEC and SGIP to agree on a Use Case template, then use tools to harvest relevant information from them

Noted work in SGAC, IEEE SGCC, IntelliGrid

- IntelliGrid Use Cases have not yet been fully harmonized with IEC’s use cases

**Green Button Initiative**

Dave Wollman

Chris Irwin DOE

Ken Caird

Green Button Initiative

Wollman and Irwin made a presentation and provided background on this initiative, responsive to the White House’s desire for consumers to get greater value from smart meter data.

References to the NSTC Subcommittee on SG June 2011 report and the NIST Interoperability Framework and Roadmap

In the September 2011 OSTP blog, White House Chief Technology Officer Aneesh Chopra challenged the industry to model a consumer interface to energy consumption data after the recently completed “blue button” initiative for medical record access

- Three California utilities have deployed, and are willing to share experience with others.
- A website has been created - www.greenbuttondata.org

DOE has announced a few funding opportunity, Smart Grid Data Access FOA, DE-FOA-0000579, which provides $500,000 to 10 pilot projects, one of which will be selected for $2 million additional funding for full deployment.

General discussion regarding how SGIP might push this further

- Potentially create another PAP spawned from the H2G DEWG
- Have a contest for an interesting application, with prizes
- Push into the secondary education arena
- Examine the architecture of how data gets to the interface...what is the complexity/cost?
- Cost for utilities, cost for third-parties to develop...related to proprietary interfaces in existence
- What are the privacy implications?

Some concerns were expressed that this might become mandated, or force those without technology to have to install it

**ACTION:** GB would like a progress report on 1/12/2012

**SGIP Update & Presentation**

Steve Widergren

A number of Governing Board members noted that it might be useful to separate the numbers of self-declared observing members from members assigned to the category after losing rights due to lack of participation for over 6 months

**Action:** Administrator to evaluate revising membership statistics presented as part of SGIP update.

- Implementation Methods Committee

Implementation Methods Committee kicking off

- Consensus reached on charter and activities related to smart grid implementation
• Reliability deferred, pending further discussions
  - Bulk power reliability under purview of NERC
  - Distribution system reliability under PUC responsibility
  - Paul Centolella acknowledged for his work in facilitating a
    NARUC discussion on the subject.
  - EEI and NARUC to work together on post-smart grid
    deployment reliability impacts

• Safety deferred, pending further discussions

Discussion and observations expressing a desire to have more
utilities working in CSWG

A need exists for mapping activities to/from NERC CIP standards

SGTCC: IPRMV2 on the cusp of release, working with accrediting
organizations on model for use

9:00 p.m.  Recess for the evening

9:08 p.m.
Meeting called by: John McDonald

Board Members: Jamshid Afnan, George Bjelovuk, John Caskey, Paul Centolella, Vint Cerf, Paul De Martini, Rik Drummond, Brent Hodges, Mladen Kezunović, Wayne Longcore, Brian Markwalter, John McDonald, Mark McGranaghan, Stephen Muchlinski, John Nunnerley, Perry Pederson, Todd Ryttling, Bob Saint, Tariq Samad, Rich Scholer, Chuck Shih, Robby Simpson, Matthew Theall, Scott Ungerer, Kenneth Van Meter (Names in bold were not present)

Ex-officio Members: George Arnold, Ron Ambrosio, Steve Widergren, Marianne Swanson, Erich Gunther

SGIP GB Administrator: Erich W. Gunther

Monday December 5, 2011  Reconvene the Governing Board

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Chair</th>
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<tr>
<td>8:00 a.m.</td>
<td>Call to Order</td>
<td>John McDonald</td>
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<tr>
<td>8:00 a.m.</td>
<td>Reestablish Quorum</td>
<td>George Bjelovuk</td>
</tr>
<tr>
<td>8:03 a.m.</td>
<td>Quorum achieved. Noted overflow room across the hall.</td>
<td>George Arnold</td>
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8:03 a.m. - 8:34 a.m.  NIST Update

- USNC and SGIP Coordination
- Noted that this is the 2nd anniversary of the formation of the SGIP
- SP1108 next release target is end of January 2012
- FAC-is there a way to prioritize the work so that utilities can even better target their resources? Business plan is part of their investigation. Will help NIST prioritize their research/meas. Science activities
- NSTC SG Subcommittee: 11/21 delivered periodic report; 3 signature initiatives-green button, DOE FOA consumer data access, USDA $150M in loan guarantees for rural utilities
- Int’l: level of coordination/effectiveness w/in the IEC; noted dual-logo arrangement with the IEEE, need to follow the efforts of large scale renewable; notable that regulation/regulatory effort different, monitoring is different, national policies different
- Water/gas: both want to apply the SG principles to their networks
- SGIP business model: NIST will always be a partner, want to align the standards work between gov’t and private sector, the transition was always part of the plan
- G. Arnold opinion on the top two issues: ensure that the CME work and business plan construction highlight the value for stakeholders to internally justify participation
- Interaction with NERC/FERC: note the FERC order of 07/2011, FERC recognized NIST/SGIP as the source, noted release of MIT report that recognized the NIST/SGIP work; noted NERC testimony that addressed their standards process speed

8:40 a.m. - 9:40 a.m.  International Update

- EU Smart Grid Coordinating Group Update (Sporer)

Brent Hodges

Ralph Sporer
Main policy driver is the 20/20/20 targets
Noted three main organizations: CEN, CENELEC, ETSI
Noted JWG Smart Grid lifecycle, disbanded 06/2011 with reports to CEN, CENELEC, ETSI
Expert Group 1 defined Smart Grid for Europe
Noted “final report: standards for smart grids”, links provided, www.etsi.org/website/Technologies/SmartGrids.aspx is one of them
Noted Mandate M490 Smart Grid and challenges, especially the timeline (18 months), Smart Grid Co-ordination Group formed to work during the mandate execution period,
Noted a web-based collection of use cases for Europe
Noted relationship to other mandates: M441 smart metering, M468 E-Vehicles
Noted white paper NIST/SG-CG published @ GridWeek
Who (stakeholders) is feeling disenfranchise w.r.t. speed/quality/etc.? Noted that the utilities face challenges from many fronts; Any advice for the US model? Noted that “mandate” does not mean mandatory standards, necessarily
How good is the coordination with the use cases and demonstrations? The demos and pilots are funded by EC, so there is a tie within that framework; will be making use case definition part of the projects
Where are the business objectives and regulatory needs in the layered model? Noted that may be in the 5th layer.
What might be the impact on standards/smart grid of the economic environment?
• SC-CG LOI (Klerer)
  Noted short term, medium to long term activities and deliverables, respectively, as areas of collaboration
• Japan Smart Community Alliance (Shinkawa)
  Noted Japan Smart Community Alliance, 699 members, formed 4/2010
  Noted renewable integration, microgrids as focal points
  What about consumer access to their energy consumption information, a la Green Button? Not at this time
  Question on whether there was any work around developing a conceptual model? Aware that the capacity shortage required them to prioritize supply to hospitals and schools, and work to support this development
  Is SG a push or pull? Cognizance of rotating blackout issues, consumers understand the issues w.r.t. demand response, gov't also part of this
  Automation of DR before smart pricing in place? Primary DR program is water heaters, manufacturers working on new DR technologies
• Smart Charging (Klerer)
  Brief updated on the Smart Charging Group initiated in the EU
related to EU mandate M468; need to identify SGIP group – would this be PAP11 (closed)? Or some other group (V2G DEWG)?

- IEC Liaison Strategy (Caird)
  Noted that Paul Molitor, Ron Ambrosio and Erich Gunther have volunteered to assist
  Where is the new IEC WG on Demand Response located within IEC? Need to investigate, may already be under PC118

- International Task Force Update (Hodges)
  Noted that we also need to manage the agreements, starting with the actual signing. Noted work in Colombia and Ecuador on smart grid efforts and efforts w.r.t. standards, then leads to working more closely with WGIP w/in the auspices of a LOI. What are the SG activities in Russia? High level of investment, looking at other technologies, and perhaps standards. $30Bn over the next 5 yrs., teleprotection/substation Automation, interested in collaboration/engagement with US activities, how to do metering

9:40 a.m. – 9:55 a.m. Break

10:06 a.m. - 10:25 a.m. PMO Update

  Wayne Longcore

- PMO Organizational Structure
  Noted new international coordinator: Paul Molitor, CSWG representative is Tanya Brewer

- PAP Updates
  Noted that PAP15 moved from TBD to a presentation today
  Question on the relationship between the PMO and the DEWGs? Not necessarily tied to the PMO unless there is a specific element to manage w/in the processes
  Question on what the mechanism might be to get reporting from the DEWGS? DEWGS are part of the monthly reporting from the PMO, in a quad-chart like basis
  What is the correlation between the DEWGS and PAPs? Need to ensure that any ties are elucidated.
  What is the plan to address the security of for example the PAP03 work? (Example was authentication of price signals) is there a handoff or a process that is defined?
  Question on whether the PAP18 work is appropriate for the CoS. Noted that CoS scope covers other items than standards.

10:35 a.m. - 11:05 a.m. BOPWG Update

  Matt Theall

  Bob Saint

- CEC Criteria Documentation and Clarification of Authority (Theall)
  Have begun discussions on the issues and noted that there was input from the Administrator on the identified issues;

- Tiger Team on Balance (Saint)
  There were three tasks for the team, one has been completed (submitted survey questions to CMEWG); the voting process is
looking at the whole voting process, not just balance, to address the identified broader issues of participation, etc.; need to clearly identify the issues in the team scope;

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<tr>
<td>11:05 a.m. – 11:20 a.m.</td>
<td>VMR Update</td>
<td>John Caskey</td>
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<| (15 min.)    |                            |              |
| 11:02 a.m. - 11:09 a.m. | Noted that they are expecting update from Doug Houseman this afternoon. Expecting more results to report during March 2012 F2F. |              |
| 11:20 a.m. - 11:30 a.m. | Other Business            | John McDonald|
<| (10 min.)    |                            |              |
| 11:09 a.m. - 11:14 a.m. | Closing Remarks           |              |
<|                | • Outgoing GB Member Recognition |              |
|                | Jamshid Afnan, Vint Cerf, Paul DeMartini, Mark McGranaghan, Todd Rytting, Le Tang |              |
| 11:30 a.m.    | Adjourn – Motion (Drummond, Caskey) |              |
| 11:14 a.m.    | Next SGIPGB Virtual: 1-12-12, 1:00 p.m. – 4:00 p.m. EST, Next SGIP Virtual: 1-20-12, 1:00 p.m. - 3:00 p.m. EST |              |