

**Buildings Technology Research and Development Subcommittee
Workgroup Meeting**
October 18, 2007

Location: L'Enfant Plaza NCR Conference Room
Time: 1:30-3:30 p.m.

Attendees¹

Shyam Sunder

Jerry Dion

Kevin Hurst

Paul Domich

Dru Crawley

Alan Schroeder

Hunter Fanney

Bobbie Lippiatt

John R Weber

Dana Bres

Kevin Kampschroer

Ken Sandler

Julio Arocho

Mark Halverson

Patrick Hughes

Paul Torellini

Juan D. Lopez

Mike Ritter

Lloyd H. Siegel

Donna McIntire

Agency/Office

DOC/NIST

DOE/EE-Buildings

EOP/OSTP

DOC/NIST

DOE/EE-Buildings

DOE/EE-Buildings

DOC/NIST

DOC/NIST

Architect of the Capitol

HUD/PD&R

GSA/Applied Science

EPA/Green Buildings

USACE

PNL

ORNL

NREL

EOP/CEQ/OFEE

USDA Forest Service

DVA/CFM

DOS/OBO

BTRD Co-chair

BTRD Co-chair

BTRD Ex-Sec

Next Meetings

November 15, 2007 1:30-3:30, GSA Training Room, L'Enfant Plaza

December 20, 2007 1:30-3:30, GSA Conf Room A, L'Enfant Plaza

¹ Workgroup members present listed in black type – members not attending identified in light gray

Introductions: Workgroup Co-chair Paul Domich (NIST) opened the meeting of the Workgroup to the Buildings Technology Research and Development (BTRD) Subcommittee welcoming the agency representatives and thanking them for their participation.

Goals and Objectives for the 913 Report Workgroup – Paul Domich provided an overview of the BTRD Subcommittee, its membership, and the goals for the committee. In the previous two meetings of the committee, thirteen federal organizations have participated with one or more participants. The primary task for the committee for the first year is in development of a report responding to Section 913 of the Energy Policy Act of 2005 related to energy-efficient technologies for buildings and facilities. The Workgroup will be directly involved in writing this interagency report. The 913 Report will be 25-30 pages in length, a rough draft is expected in February 2008, and a refined first draft is expected in April 2008. A final report for agency review and sign-off will be available by August 2008.

Section 913 Report – Dru Crawley (DOE) presented a brief overview of the planned Section 913 Report documenting the federal strategy for improving energy technology systems and materials and the energy efficient automated operation of buildings and building systems. The specific requirements to the Section 913 Report will be satisfied by the proposed subcommittee report.

Review of the Subcommittee Recommendations

Subcommittee recommendations on the draft outline include:

- Justification of need for an interagency R&D plan for building energy technologies through references to traceable national documents (e.g., November 2006 PCAST report titled “The Energy Imperative”, National Academy studies, etc.).²
- Delineation of desired outcomes (e.g., target reductions, performance) from the technologies used to achieve those outcomes. The outline will be modified to include a preamble section either to the entire report or to specific sections that describes these desired outcomes.
- Discussion of the energy issues surrounding the entire life cycle of buildings – design, construct, commission, operate and maintain, dispose.
- Modifying the general structure of the Section 913 report to incorporate a major section covering elements common for both commercial and residential buildings followed by a second major section that discusses technologies and issues specific to each.
- Address water conservation as an element for both residential and commercial buildings as opposed to having distinct sections standing alone.

² The report as a whole should answer questions such as: What is the problem and why is it hard? How is it solved today and by whom? Why can we succeed now? What are the new technical ideas? What is the research plan? What is the impact if successful and who would care? Why should the federal government do this?

The overall content of the outline was deemed adequate with the exception of water conservation. DOE, NIST, EPA, USDA and DOS agreed to work together to update the outline based on subcommittee feedback and on adding content to the water conservation elements.

Review of the Current Section 913 Outline Mark Halverson (PNL) led the review of the current outline and engaged the workgroup in a discussion of modifications. (The current draft outline is available at <http://www.bfrl.nist.gov/SBT/> username: sbtuser – a password protected NISTwebsite)

Next Steps for the Report Development Working from the revised outline structure, writing teams were identified for each section and subsection. The workgroup agreed to have preliminary content completed by Nov 9th for inclusion in the Nov 15th distribution materials. The current draft outline has the preliminary writing teams identified. If other members wish to be included in the writing the report, please contact Paul Domich at domich@cip-consulting.com.

Closure: Paul Domich and Dru Crawley thanked the agency representatives for their participation and contributions.