

## MINUTES

### **Banner Center for Energy Advisory Council Meeting**

Valencia Community College, Orlando, Florida

Thursday, May 23, 2011

09:00 AM – 02:00 PM

#### **I. Opening Remarks**

*Jose Farinos, Director of the Banner Center for Energy, Indian River State College.* Mr. Farinos welcomed all those that were in attendance, and gave a special thanks to all of the partners that the Banner Center for Energy has worked with and that have helped enable the Banner Center to be successful. He encouraged continuing collaboration amongst the members, and provided an update on the Banner Center for Energy, as well as the direction that it is taking in the upcoming year.

For the upcoming Banner Center for Energy year, we plan to use more technology to increase participation in Advisory Council and Focus Group meetings. We are exploring using a webinar type format to provide high-quality interactive information transfer. Also, in the realm of technology a major initiative is underway to develop applications for the iPad that will provide students with course information, counseling, textbooks, and course content.

The energy industry's expectations for hiring have not been realized because of many factors, starting with the financial crisis of 2007. We continue to be committed to the Banner Center's Goals and welcome any feedback from the advisory council regarding the energy industry's hiring and training needs.

#### **II. Chairman Introduction**

*James Auld, College Coordinator Nuclear, Florida Power & Light.* Mr. Auld began by speaking about the impact of the Fukushima Nuclear disaster on the Nuclear industry. After the disaster, students approached instructors, subject matter experts, and Mr. Auld. They all had the same question: "Should I look into pursuing another career?"

The answer to the question is that the Nuclear industry will continue to have demand for highly trained and qualified maintenance personnel. Employees are retiring, albeit at a slower pace than was predicted. A second reason that there will continue to be a demand for nuclear qualified employees is that there will be increased career opportunities. Just as the International Atomic Agency was created in response to Chernobyl, so too will new more stringent safety regulations be made. The increase safety reporting requirements should expand career opportunities.

The Nuclear Regulatory Commission (NRC) has already instituted a taskforce to perform safety checks on all U.S. Nuclear assets. When the checks are complete, a full and extensive safety check will be made, especially on spent fuel.

Further opportunities could materialize with spent fuel in the areas of storage, and recycling for reuse. The stalled project to create a storage facility at Yucca Mountain, although closed in April, may gain new life.

The new AP1000 from Westinghouse is a “new StarTrek” control room and design, rather than the “old StarTrek” control rooms that are currently used. Along with the updated control scheme, the AP1000’s shut down can be accomplished much safer and largely through gravity if there is a loss of power.

The AP1000 will be installed in many of the new nuclear power plants under construction today. This new system will require new training and perpetuate the nuclear renaissance; which may lead to many operators deciding to retire rather than learn a new system. Mr. Auld used the analogy of new tax law was enacted in the early 1990’s. One old judge spoke up and asked when the new laws would come into effect so he could plan his retirement.

The Electrical Power Technology programs at Indian River State College (IRSC) and Miami Dade College (MDC) are the flagship training programs of the Banner Center of Energy. The programs are becoming even more important because of the plans to add two new reactors at the Turkey Point power plant. We look forward to the coming 2011/2012 year.

### **III. Contract Deliverables and Schedule, Plan for the Year**

*John Holbrook, Program Manager of the Banner Center for Energy, Indian River State College.*

Mr. Holbrook outlined milestones completed and provided a summary of key deliverables accomplished throughout the year. Self-Introductions followed, along with an update from each member:

(See Appendix A for sign in sheet.)

- José Farinos, Indian River State College
- James Auld, Florida Power and Light
- Jorge Monreal, Hillsborough Community College, FLATE
- Patti Weasel, Lake Sumter Community College
- Everton Jackson, Polk State College
- Betsy Levingston, Lakeland Electric
- Hayden D. Alexis, Fort Pierce Utilities Authority
- Dr. Damola Omole, Smart Energy & Grid Associates (SEGA)
- Ken Languedoc, NextEra Energy
- Dr. Jay Matteson, Palm Beach State College
- Mrs. Matteson,
- Dr. Kevin Cooper, Indian River State College
- John Holbrook, Banner Center for Energy

In addition to the above meeting members, the following members joined via telephone:

- Ken Olsen, Florida Department of Education – State Supervisor Architecture and Construction, Energy, & Division of Career & Adult Education
- Kurt Morauer, Banner Center for Construction
- Dr. Diane King, Miami Dade College

Mr. Holbrook made the following points during his presentation on the state of the Banner Center for Energy:

- The Banner Center for Energy (BCE) has met all deliverables for the 2010/ 2011 contract year, save the training delivery, which is ongoing and on track.
- Highlights from the Banner Year
  - Job Fair activities resulted in 13 placements with Bartlett, and 48 more pending with FPL.
  - Developed smart grid curriculum that can be used to qualify Electrical Power Technology and Cyber Security students for certificates.
  - BCE will meet and exceed training requirements and placements.

#### **IV. Smart Grid Training and Education Development**

1. Ken Languedoc - NextEra Energy. Mr. Languedoc is Director of Workforce training at NextEra/ FPL. He currently oversees two programs related to smart grid training and education both DOE Grants. Mr. Languedoc spoke extensively on the subject of developing and delivering smart grid related training and curriculum.
  - a. Gateway to Power Grant – In partnership with Smart Energy & Grid Systems (SEGA) NextEra is developing smart grid curriculum.
  - b. Educational partners include, Palm Beach State College, Indian River State College, Texas Tech University, Massachusetts Institute of Technology, Florida Atlantic University, Miami Dade College, State University of New York, and Florida International University.
2. Jay Matteson - Palm Beach State College – Gateway to Power Partner
  - a. PBSC has developed four courses related to smart grid in support of FPL’s gateway to Power program.
  - b. [OSI Soft](#) – Data Collection and Management – Mr. Len Uronis from OSI Soft gave a good overview of OSI’s role in smart grid and energy management. The “PI” system was discussed and many council members were familiar with the system. The “PI” system is a data collection, storage, retrieval, and management system used by many large industrial organizations including FPL.
  - c. [Spacetime Insights](#) – Thermal Imaging for building management solutions - offers alerts when operating conditions such as pressure, temperature, etc. are out of normal tolerances.
3. John Holbrook – Banner Center for Energy/ Indian River State College
  - a. Presented smart grid curriculum designed to introduce students to the drivers, concepts, and vocabulary of smart grid.

- b. Indian River State College has developed four courses; Digitization; Advanced Metering and Infrastructure (AMI); Two-way communication and control; Enhanced Power Systems.

**V. Lunch Provided by Banner Center for Energy – Open Discussion**

Lunch was provided for the Advisory Council and an open discussion took place amongst the members.

**VI. Tour of Valencia Community College’s LEED Platinum Building**

Mr. Angel Melendez – Manager for Computer Engineering Technologies Laboratories hosted the tour.

**Appendix A**

Sign in Sheet Banner Center for Energy Advisory Council Meeting 05/23/2011

Banner Center for Energy 5/23/11

Sign in

Name	organization	Email
Betsy Livingston	Lakeland Electric	betsy.livingston@lakelandelectric.com
Patti Weasel	Lake-Sumter CC	weaselp@lsc.edu
KEN LANGUEDOC	FPL/ <del>NextEra</del>	K.Languedoc@fpl.com
JAY MATTESON	PBSC/Just Energy	mattesoj@palmbeachstate.edu
LEN URONIS	OSISOFT LLC	LEN@OSISOFT.COM
Jorge Monreal	FLATE	jmonreal@ucf.edu
Everton Jackson	PSC Corporate College	ejackson@polk.edu
James Auld	Florida Power & Light	James.Auld@FPL.com
Damola Omole	Smart Energy Grid Assoc.	damola@SEGAnext.com
HAYDEN ALEXIS	FORT PIERCE UTILITIES	Halexis@FPUA.com

Name	Organization
Betsy Livingston	Lakeland Electric
Patti Weasel	Lake-Sumter CC
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