



Central New York Regional Planning & Development Board

126 N. Salina St., 100 Clinton Square, Suite 200, Syracuse, New York 13202 • Tel.(315) 422-8276 • Fax 422-9051

Walter Tennant, Chair

David V. Bottar, Executive Director

CNY RPDB Meeting

April 13, 2011

12:00noon – 1:30 p.m.

DoubleTree Hotel

Harbour Ballroom

6301 Route 298, East Syracuse, NY

Chairman Walter Tennant, Presiding

AGENDA

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| 1. | Call to Order | Walter Tennant |
| 2. | Approval of Day's Agenda and Minutes from the February 16, 2011 Meeting | Walter Tennant |
| 3. | CNY Regional District Cooling Feasibility Study
-Dr. Cornelius B. Murphy, Jr., President, SUNY ESF and
Dr. James M. Hassett, Professor Emeritus, Department of Environmental Resources Engineering, SUNY ESF | Neil Murphy and James Hassett |
| 4. | Executive Director's Report <ul style="list-style-type: none">• SMTC I-81 Challenge Public Workshops• Executive Committee Meeting May 18, 2011• Board Meeting June 15, 2011 | David Bottar |
| 5. | Old/New Business | Walter Tennant |
| 6. | Adjournment | Walter Tennant |



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MINUTES

Central New York Regional Planning and Development Board Board of Directors Meeting April 13, 2011

ATTENDANCE

Board Members: Lawrence Baker, Dan Dineen, Shawn Doyle, David Elleman, Mary Ann Messinger, William Meyer, Jim Murphy, Ann Petrus, Kathleen Rapp, Danny Ross, Morris Sorbello, Bill Southern, Don Spaulding, Walter Tennant, Keith Welch,

Guests: Tom Blanchard, CenterState CEO; Ed Bogucz, Syracuse Center of Excellence; Trisha Botty, Assemblyman Roberts office; Tim Carpenter, GHD, Inc.; Kevin Castro, GHD, Inc.; David Coburn, Onondaga County Department of Water Environment Protection; David Colbert, Onondaga County Department of Water Environment Protection; Lori Dietz, CenterState CEO; Eileen Gilligan, Onondaga County Water Authority; Stephanie Harrington, NYS DEC Public Affairs and Education; James Hassett, Speaker, SUNY College of Environmental Science & Forestry; Sue Hassett; Kipp Hicks, Madison County IDA; Michael Hooker, Onondaga County Planning Agency; Jack Loveland, Orrin MacMurray, C & S Companies; Terry Masterson, Cayuga County Economic Development; Wayne McFarland, GHD, Inc.; Ed Michalenko, Onondaga Environmental Institute; Liz Moran, EcoLogic LLC; Allison Muehe, GHD, Inc.; Neil Murphy, SUNY College of Environmental Science & Forestry; Fred Picardi, Metropolitan Water Board; Neil Ringler, SUNY College of Environmental Science & Forestry; Holly Rosenthal, Metropolitan Water Board; Christine Slocum, Assemblyman Magnarelli's office; Bob Tomeny, Onondaga County Water Authority; Robert Tractenberg, TDO; David Turner, Oswego County Community Development of Tourism and Planning; Mary Vanouse, City of Oswego Community Development; Alex Walsh, Senator DeFrancisco's office; Dan Young, Regional Representative for the Governor.

Staff: David Bottar, Kathleen Bertuch, Christopher Carrick, Jeanie Gleisner, Samuel Gordon, Bruce Keplinger, David Kubek, Brian Pincelli, Michael Rosanio, Anne Saltman, Kay Wakeman, and Cindy Reilly.

BUSINESS MEETING

1. CALL TO ORDER

Chairman Walter Tennant called the meeting to order at 12:30 p.m. at the offices of the Central New York Regional Planning and Development Board

2. APPROVAL OF MEETING AGENDA/ANNUAL MEETING MINUTES

The first order of business was a review of the day's agenda and minutes from the February 16, 2011 meeting. A motion was introduced and seconded to accept the agenda and minutes as presented; the motion was approved unanimously.

3. PRESENTATION

Mr. Tennant thanked everyone for taking the time to be in attendance at this Board meeting and then introduced Dr. Neil Murphy, President of the SUNY College of Environmental College of Environmental Science and Forestry.

Dr. Murphy thanked everyone for the kind introduction and went on to note the importance of today's presentation regarding the regional district cooling study that was recently completed by SUNY ESF and its consultant team. In discussing its importance, Dr. Murphy noted the significance of the water resources in Central New York and how these resources have played a major role in the region's economic growth. Dr. Murphy emphasized the importance of a decision made by community leaders over 50 years ago to form the Metropolitan Water Board and develop a major distribution line to bring water from Lake Ontario into the Syracuse metropolitan area. Building on this history of visionary leadership, Dr. Murphy noted that former Congressman Jim Walsh secured a 'Congressionally directed appropriation' a few years ago that provided the basis for his office to go forward with the district cooling study. Following these formal remarks, Dr. James Hassett was introduced as the principal-in-charge of the district cooling study and asked to provide a summary of the findings that have been incorporated into the report.

Dr. Hassett initiated his remarks by noting that the basic focus of the study was to determine the feasibility of taking water from Lake Ontario, piping it into the Syracuse area, and then using it as a cooling source in the summer season to replace the mechanical chillers that are used by most institutional and commercial buildings in the Syracuse area. Dr. Hassett went on to note that the study was expanded to look at two water sources – Lake Ontario and Skaneateles Lake.

He noted that the rationale for this study was based, in part, on district cooling systems which have recently been developed and are in operation at Cornell University and Toronto, Canada. Dr. Hassett noted that a basic district cooling system consists of a water source that is large and deep enough to provide cold water, an intake system that basically consists of piping, pumping, and water treatment equipment, distribution lines, and a heat exchange facility at the end user location.

Dr. Hassett explained that members of the SUNY ESF consultant team visited Cornell University to review the design and operational components of this system. It was also noted that time was spent reviewing the Toronto system, which provides for the use of water from Lake Ontario for both district cooling and potable drinking water purposes. Dr. Hassett noted the dual use purpose of the

Toronto system is very cost effective. Dr. Hassett noted that both of these systems have been operated successfully with significant energy cost saving to their end users.

Dr. Hassett continued his power point presentation with a review of various natural resource conditions in CNY with a focus on how the different elevations of Lake Ontario and Skaneateles would affect the operational costs of various alternatives that were considered for a district cooling system. Dr. Hassett noted that the study team ended up focusing their analysis on five alternatives including three that used Lake Ontario as the source water and two that used Skaneateles Lake.

Dr. Hassett continued with an evaluation of all options by showing data regarding total costs, amortized costs, energy savings by options, operation and maintenance costs to deliver chilled water, emission reduction, and data regarding ecological and water quality issues. In summary, Dr. Hassett noted that option 1, which involves the construction of a new water supply distribution line from Lake Ontario and water pumping stations, would be the most expensive and that option 4, which relies on the existing gravity water distribution lines from Skaneateles Lake that serve the City of Syracuse, would be the least expensive. Dr. Hassett noted that because of the requirement for pumping stations, that options 1-3 offered the least energy savings. It was also noted that on a unit costs comparison basis, looking at construction and operational and maintenance costs, that option 4 would be most beneficial. Dr. Hassett concluded his remarks by noting no ecological issues were identified in the study that would prevent the development of a district cooling system in CNY.

Following his formal remarks, Dr. Hassett took several questions from the audience. With regard to a question about the removal of water from Skaneateles Lake, Dr. Hassett noted that the study was based on the existing amount that is permitted to be removed from the lake on a daily basis – 30mgd. Regarding several questions concerning the discharge of the cooled water, Dr. Hassett noted this issue was considered by the study team's environmental scientist and it was found that if this water were discharged into Onondaga Lake it would have no real positive or negative impacts. It was also noted that while the team did not analyze this issue, it is not expected that the discharged water would be of a sufficient quantity to flush pollutants from Onondaga Lake downstream to the Oswego River and Lake Ontario. And in response to the last question, it was noted that there was not enough flow from the Skaneateles Lake gravity system to run turbines to generate electricity. Dr. Hassett concluded by noting the study has been completed and a formal copy of the report will be available through a link on the SUNY ESF website in early June. It was also noted that the report will be placed on the CNY RPDB website.

4. EXECUTIVE DIRECTOR'S REPORT

David Bottar thanked Dr. Hassett for a wonderful presentation and noted that the CNY RPDB is considering steps which could be undertaken to advance the concept of a district cooling system in CNY.

Mr. Bottar went on to review upcoming calendar dates. He announced the next Executive Committee meeting will be held on May 18th and the next full board meeting is scheduled for June 15th – and the focus of this meeting will be on an economic development issue of importance to CNY.

Mr. Bottar then took the opportunity to highlight the upcoming I-81 Challenge Workshops being held in the beginning of May under the leadership of the Syracuse Metropolitan Transportation Council and the New York State Department of Transportation.

OLD/NEW BUSINESS

There was no information presented or discussed under old or new business.

ADJOURNMENT

There being no further business to discuss, a motion was introduced and seconded to adjourn the meeting; the motion was approved unanimously.

Respectfully Submitted,

David Elleman, Secretary