



**WEF Residuals & Biosolids Committee
Carbon Task Force**

WEFTEC 2010

**Morial Convention Center
New Orleans, LA**

Tuesday, October 5, 2010

8:30 – 10:00 am

Room 340-341

Patricia Scanlan, *Chair*

AGENDA

- Introductions
- Review of meeting minutes from Savannah 2010 teleconference
 - Update of CTF-related actions since WEFTEC October 2009
 - Presentations and educational seminars
 - Sustainability TPU
 - WERF reports on carbon emission-related research
 - CTF sponsored recommendations to LGO updates
 - Impacts/status of EPA GHG reporting requirements
 - CCME BEAM model
- New Items
 - Future educational sessions/webinars
 - WEF
 - NBP
 - Regional/state organizations
 - Other new business



**Carbon Task Force
WEFTEC 2010
New Orleans, LA
Patricia Scanlan, Chairs
October 5, 2010
Meeting Minutes**

Introduction

This memorandum provides meeting minutes from the Water Environment Federation (WEF) Carbon Task Force (CTF) meeting on Tuesday, October 5, 2010 at WEFTEC.

The following members were in attendance:

Name	Affiliation
Bob Bastian	USEPA
Peter Brady	Alpine Technology
Bob Forbes	CH2MHill
Sam Hadeed	WEF
Jonathan Harris	Nexterra
Greg Kester	CASA
Patricia Scanlan	Black & Veatch
Jim Welp	Black & Veatch
John Willis	Brown and Caldwell

Summary of Activities

Monday, May 23, 2010

Meeting called to order at 8:30 by Chair Trish Scanlan.

1. **Review of Meeting Minutes from Savannah RBC, May 23, 2010.**
2. **Carbon/CTF Related Activities** – The members were polled for any carbon/CTF-related activities that have occurred since the May meeting. The list includes:
 - CHEAPET – WERF is moving ahead with Beta Testing of this whole plant tool and “small”, “medium”, and “large” plants. CHEAPET focuses on coverage “inside the plant”, but includes biosolids utilization factors for final use.
 - Candlestick Flare Fugitive Emissions – This WERF-owned tool from the University of Alberta is now available

- Lagoon methane emissions – WERF is working with NASA on lagoon methane emissions in Sunnydale CA as part of its algae research. Expect the results to be published by WERF in Spring 2011.
- Nitrogen emission model – WERF is working with Columbia University to calibrate a nitrogen emission model (including N₂O and NO).
- LCAMER – has undergone beta testing at Gwinnett County, GA and Pinellas County, FL. Compared results of LCAMER with calibrated Biowin process model. Based on this testing, the LCAMER will undergo improvements, performed by Hydromantis under a WERF contract.
- Bob Bastian discussed EPA/WERF-generated shareware that will contain energy related information from POTWs and energy tools. There was some question on the extent of information that would be included in the shared documents/tools.
- WEFTEC Workshop Proposal – a workshop proposal has been submitted for 2011 WEFTEC on Carbon emissions and GHG inventorying, with proposed speakers to include several of the members of the CTF.

3. **Discussion of Mission Statement** – Trish passed out a draft Objective and Goal Statement (see Attachment 1). Comments during the discussion included:

- Minimize overlap between the Carbon Task Force goals/objectives and the Sustainability COP goals/objectives
- Maintain or reduce the number of objectives for the CTF to ensure that the mission of the group is focused and achievable.
- Include annual Technical Practice Updates (TPUs) on carbon issues as one of the actions. A 10-page limit was suggested for these updates.

Action Item: Members of the CTF to review and comment on the attached Objective and Goal Statement. Please provide comments to Trish Scanlan by 1 November 2010.

4. **Discussion of potential TPUs authored by CTF** – There was discussion concerning TPUs that the CTF may produce. Bob Forbes suggested that we use the Sustainability TPU as a starting point, to prevent redundancy of TPU information. Potential TPUs include:

- Carbon Credit Sale/Credit/Tracking
- Assessing carbon offsets and credits relating to biosolids activities
- Carbon offsets/tracking associated with biomass combustion
- Discussion of various carbon accounting methodologies – current practices

Action Item: Bob Forbes to distribute existing Sustainability TPU to members.

5. **Future Actions by the CTF** – Several actions were proposed for future CTF participation/organization including:
 - Educational seminar on carbon emission benchmarking
 - NBP webinar for the BEAM model, including case studies

6. **Conversion of the CTF into an RBC Sub-Committee**- There was discussion on the efforts to convert the CTF into an RBC Sub-Committee. As part of this item, there were questions on the mission of the Sustainability COP vs. the mission of the CTF. The concern is that we may be targeting similar issues and functions. Discussion concerned definite demarcations between the two groups, e.g., wet vs. dry processes or inside vs. outside the fence.

Action Item: Trish Scanlan to contact the Sustainability COP and discuss possible overlap and co-ordination.

7. **General Discussion**

- Greg Kester presented a regulatory update on FOG co-digestion in California. CalRecycle (previously the Integrated Waste Board) is addressing FOG receiving and treatment at POTWs. The proposed rules will require POTWs to obtain permits. Greg and CASA are working to minimize the impact of the rules on POTWs that receive FOG and inject into digesters with minimal treatment. Greg also reported on new emission requirements that will become effective in 2012 that will require pre- and post combustion catalysts.

- John Willis discussed research at Virginia Tech that addresses N₂O emissions of biosolids. There were a number of questions on this topic, including identification of the principal researcher.

Action Item: John Willis to identify the principal researcher for this work.

The meeting ended at 10:00 am.