



National Defense Center for Energy and Environment



DoD Executive Agent

Office of the
Assistant Secretary
of the Army
(Installations and
Environment)



The Fully-Burdened Cost of Waste in Contingency Operations



Dr. Marc Kodack, AEPI

The NDCEE is operated by:  *Concurrent Technologies Corporation*

Technology Transition – Supporting DoD Readiness, Sustainability, and the Warfighter

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE JUN 2010		2. REPORT TYPE		3. DATES COVERED 00-00-2010 to 00-00-2010	
4. TITLE AND SUBTITLE The Fully-Burdened Cost of Waste in Contingency Operations				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) National Defense Center for Energy and Environment (NDCEE), Concurrent Technologies Corporation, 100 CTC Drive, Johnstown, PA, 15904				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 14-17 June 2010 in Denver, CO. U.S. Government or Federal Rights License					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 7	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Background

- 2010 National Defense Authorization Act
- Health effects of open-air burning on military personnel
- Tool to select “best” technology for waste management



Project Goals



- Better manage solid, hazardous, and medical waste overseas
 - Create method to calculate the fully burdened cost
 - Draw on fuel and water fully burdened cost project methods



Pilot Objectives

- Build on lessons learned from Iraq and Afghanistan
- Develop method to calculate fully burdened cost
- Ensure easy transfer to potential users and stakeholders
- Demonstrate methods with unclassified data and scenarios



Recommendations

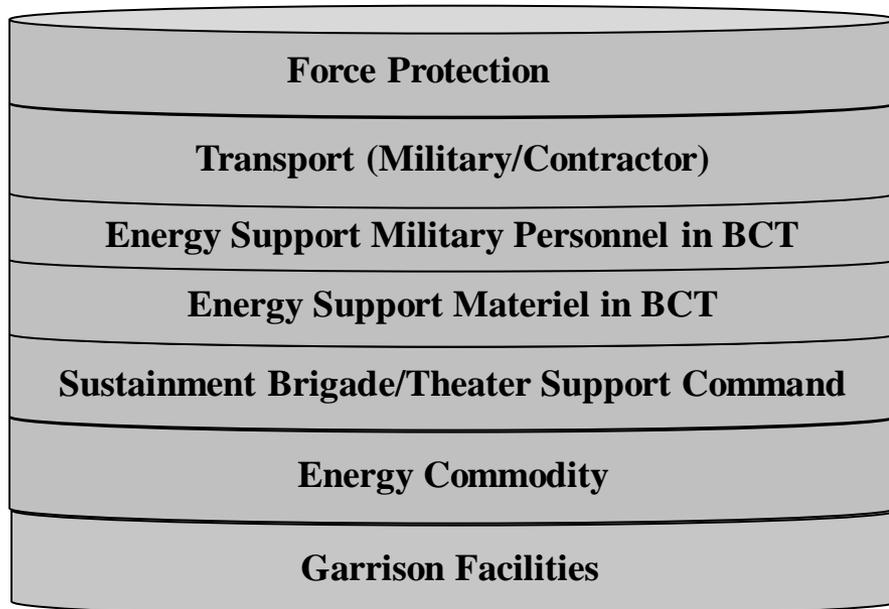


- Validate method with additional data
- Host roundtable with DoD personnel
 - Share information
 - Choose consistent cost metrics
 - Consider other management tools to increase efficiency
 - Examine implications of combining existing tools/approaches



Methodology Comparison: Fully Burdened Costs of Fuel and Waste

Sustain the Mission Project Methodology: Fully Burdened Cost of Fuel Resource Components



DRAFT Fully Burdened Cost of Waste Management Resource Components (at a Mature Base Camp)





DoD Executive Agent

Office of the
Assistant Secretary
of the Army
(Installations and
Environment)

www.ndcee.ctc.com



Points of Contact



Marc Kodack
Army Environmental Policy Institute
703-604-2310
marc.kodack@us.army.mil

Elizabeth Keysar
Concurrent Technologies Corporation (CTC)
(770) 631-0137
keysare@ctc.com

This work was funded in part through the Office of the Assistant Secretary of the Army (Installations and Environment) and conducted in part under contract W91WAW-09-D-0022 Task 0609. The views, opinions, and/or findings contained in this paper are those of the author and should not be construed as an official Department of the Army position, policy, or decision unless so designated by other official documentation.