



**US Army Corps
of Engineers®**

ENGINEERING AND CONSTRUCTION BULLETIN

No. 2007-12

Issuing Office: CECW-CE-D

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Subject: Training courses to be conducted to help Corps District design and construction engineers implement energy conservation requirements for new construction per Energy Policy Act 2005.

Applicability: Directive

1. A critical aspect of all current Military Program projects is compliance with the Energy Policy Act of 2005 (EPACT). See ECB 2005-20, Energy Policy Act of 2005 (Public Law 109-58) and How It Affects All Federal Facilities. It is very important that Corps Engineering and Construction staff be effectively trained in the oversight and implementation of the EPACT requirements. Therefore, each COS shall send at least one Mechanical Engineer/Technician each from Engineering and Construction to the training. Districts implementing military projects are also strongly encouraged to send representatives. The training is also open to DPW staff. Since there will only be 35 openings for each class, it is recommended that Corps personnel sign up for one of the sessions ASAP.
2. The Engineer Research and Development Center (ERDC), in partnership with three Corps of Engineers Design Centers of Expertise, will conduct week-long training courses to help Corps District design and construction engineers implement energy conservation requirements for new construction. Public Law 109-58 (also known as EPAct 2005) requires that newly constructed federal facilities achieve 30 percent better energy consumption than a comparable facility designed in accordance with American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE) Standard 90.1-2004.
3. A "short course" version of the training will be presented at the Corps' Infrastructure Systems Conference in Detroit during June 25-29. Three full-week courses will be held at Louisville District (LRL) the week of July 9, Fort Sam Houston, Tex. (with Fort Worth District (SWF) the week of September 17, and Fort Bragg, N.C. (with Savannah District (SAS) the week of October 15. There is no charge for attending the course however each student will be responsible for their TDY and salary costs.
4. To attend one of the full-week courses please contact Dale Herron at (217) 373-7278 for either course at Ft Sam Houston (SWF) or Ft Bragg (SAS) and Jim Martin at (502) 315-6253 for the course in the Louisville District office.
5. A draft course schedule is as follows:

Schedule of Instruction

EPACT 2005 Training for COSs

ECB 2007-12

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Monday 8a-5p	Introduction EPACT2005 and FEMP interpretation of same EO 13423 and FEMP interpretation of same Life Cycle Cost Analysis	Herron/CERL Nasseri/DOE Nasseri/DOE ??? /NIST
Tuesday 8a-5p	ASHRAE Standard 90.1-2004 Compliance with 30% Better EPACT 2005 requirements for UEPH and Training Barracks, BHQ, and TEMF – Results of CERL/DOE/ASHRAE Study 90.1 Interpretation Target Energy Budgets Technology sets to achieve 30% better	Halverson/PNNL Herron/CERL
Wednesday 8a-5p	New Energy Technologies Dedicated Outdoor Air Systems Radiant Heating and Cooling Solar Walls Cool Roofs Laundry Ventilation Systems Drain Water Heat Recovery Systems	Zhivov/CERL
Thursday 8a-5p	Building Air Tightness Thermography Blower Door Testing (hands on)	Anis/ASHRAE Zhivov/CERL Bailey/CERL
Friday 8a-1p	Implementation in Real Projects	Zhivov/CERL Herron/CERL

6. Special thanks to Dale Herron, CERL (217) 373-7278, and Alexander Zhivov, CERL (217) 373-7278, for organizing this training program. HQUSACE point of contact for this ECB is Gary Bauer, 202-761-0505.

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