



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
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WASHINGTON, DC 20314-1000

JUL 27 2016

CECW-CE

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Implementation Guidance for Section 3021 of the Water Resources Reform and Development Act of 2014 (WRRDA 2014) – Use of Innovative Materials

1. Section 3021 of WRRDA 2014 further amends Section 8(d) of the Water Resources Development Act of 1988 (WRDA 1988) (33 U.S.C. 2314) by revising the definition of innovative technologies to mean “methods, or materials, including roller compacted concrete, geosynthetic materials, and advanced composites, that the Secretary determines are appropriate” to carry out that section. Enclosed are copies of Section 8 of WRDA 1988, as amended, and Section 3021 of WRRDA 2014.

2. A new draft of Engineer Manual (EM) 1110-2-3506, Grouting Technology under preparation will provide guidance on the methods and materials to be used in development of projects and is expected to be published in Calendar Year 2016. EM 1110-2-1913, Design and Construction of Levees, is also being updated. Additional guidance can be found in ER 1110-1-1807, Drilling in Earth Embankment Dams and Levees. Coordination with the Concrete Technology Center for Roller Compacted Concrete is strongly recommended when use of roller compacted concrete is being considered as an option for use in project construction.

Encls

A handwritten signature in black ink, appearing to read "J. Dalton".

JAMES C. DALTON, P.E.
Chief, Engineering and Construction
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ENCLOSURE 1

33 USCS § 2314 (Section 8 of WRDA 88, as amended by section 503(b) of WRDA 99 and section 3021 of WRRDA 14)

§ 2314. Innovative technology

(a) Use. The Secretary shall, whenever feasible, seek to promote long- and short-term cost savings, increased efficiency, reliability, and safety, and improved environmental results through the use of innovative technology in all phases of water resources development projects and programs under the Secretary's jurisdiction. To further this goal, Congress encourages the Secretary to--

- (1) use procurement and contracting procedures that encourage innovative project design, construction, rehabilitation, repair, and operation and maintenance technologies;
- (2) frequently review technical and design criteria to remove or modify unnecessary impediments to innovation;
- (3) increase timely exchange of technical information with universities, private companies, government agencies, and individuals;
- (4) foster design competition; and
- (5) encourage greater participation by non-Federal project sponsors in the development and implementation of projects.

(b) Accelerated adoption of innovative technologies for management of contaminated sediments.

(1) Test projects. The Secretary shall approve an appropriate number of projects to test, under actual field conditions, innovative technologies for environmentally sound management of contaminated sediments.

(2) Demonstration projects. The Secretary may approve an appropriate number of projects to demonstrate innovative technologies that have been pilot tested under paragraph (1).

(3) Conduct of projects. Each pilot project under paragraph (1) and demonstration project under paragraph (2) shall be conducted by a university with proven expertise in the research and development of contaminated sediment treatment technologies and innovative applications using waste materials.

(4) Location. At least 1 of the projects under this subsection shall be conducted in New England by the University of New Hampshire.

(c) Reports. Within 2 years after the date of the enactment of this Act [enacted Nov. 17, 1988], and thereafter at the Secretary's discretion, the Secretary shall provide Congress with a report on the results of, and recommendations to increase, the development and use of innovative technology in water resources development projects under the Secretary's jurisdiction. Such report shall also contain information regarding innovative technologies which the Secretary has considered and rejected for use in water resources development projects under the Secretary's jurisdiction.

(d) "Innovative technology" defined. For the purpose of this section, the term "innovative

technology" means designs, methods, or materials, including roller compacted concrete, geosynthetic materials, and advanced composites, that the Secretary determines are appropriate to carry out this section.

ENCLOSURE 2

SECTION. 3021. USE OF INNOVATIVE MATERIALS, OF THE WATER RESOURCES REFORM AND DEVELOPMENT ACT OF 2014.

Section 8(d) of the Water Resources Development Act of 1988 (33 U.S.C. 2314) is amended by striking “materials” and all that follows through the period at the end and inserting “methods, or materials, including roller compacted concrete, geosynthetic materials, and advanced composites, that the Secretary determines are appropriate to carry out this section.”.