

**DEPARTMENT OF DEFENSE****Department of the Army; Corps of Engineers****Notice of Intent To Revise Scope of Draft Environmental Impact Statement for Updating the Water Control Manual for the Apalachicola-Chattahoochee-Flint River Basin To Account for the U.S. Court of Appeals for the Eleventh Circuit Ruling and a June 2012 Legal Opinion of the Corps' Chief Counsel Regarding Authority To Accommodate Municipal and Industrial Water Supply From the Buford Dam/Lake Lanier Project**

**AGENCY:** Department of the Army, U.S. Army Corps of Engineers, DoD.

**ACTION:** Notice.

**SUMMARY:** Notice is hereby given that the U.S. Army Corps of Engineers (Corps), Mobile District, intends to revise the scope of the Environmental Impact Statement (EIS) for the Water Control Manual (WCM) updates for the Apalachicola-Chattahoochee-Flint (ACF) River Basin in Alabama, Florida, and Georgia, in light of a June 2011 decision of the U.S. Court of Appeals for the Eleventh Circuit and a June 2012 legal opinion of the Corps' Chief Counsel regarding authority to accommodate municipal and industrial water supply from the Buford Dam/Lake Lanier project. The Corps is updating the water control plans and manuals for the ACF Basin in order to improve operations for authorized purposes to reflect changed conditions since the manuals were last developed. The revised EIS will also consider, along with operations for all authorized purposes, an expanded range of water supply alternatives associated with the Buford Dam/Lake Lanier project, including current levels of water supply withdrawals and additional amounts that Georgia has requested from Lake Lanier and downstream at Atlanta. In all other respects, the scope of the EIS for the WCM updates will remain as described in the Updated Scoping Report, Environmental Impact Statement, Update of the Water Control Manual for the Apalachicola-Chattahoochee-Flint (ACF) River Basin, in Alabama, Florida, and Georgia (March 2010), available at <http://www.sam.usace.army.mil/pa/acf-wcm/docs.htm>, the Corps solicits comments from interested persons regarding the scope of the EIS for the WCM updates.

**DATES:** The public comment period will commence with publication of this notice, and will end 60 days after its publication. This notice will also be

distributed to those who commented during the original scoping comment periods of October–December 2008 (see 72 FR 63561 [November 9, 2007], 73 FR 9780 [February 22, 2008], 73 FR 54391 [September 19, 2008]), and November–December 2009 (see 74 FR 59965 [November 19, 2009]). This distribution will occur by mail and/or email on or about the date of this notice. No additional public scoping meetings are planned. Comments on the scope of the EIS, including concerns, issues, or proposed alternatives that should be considered in the EIS, should be submitted in writing to (see **ADDRESSES**) and will be accepted throughout the public comment period. Comments may also be submitted by using the electronic comment form at: <http://www.sam.usace.army.mil/pa/acf-wcm/form.htm>.

**ADDRESSES:** To facilitate the Master Water Control Manual update, a support contract has been awarded to Tetra Tech, Inc. for preparation of the EIS and additional scoping. Please mail written comments to Tetra Tech, Inc., 61 St. Joseph Street, Suite 550, Mobile, AL 36602–3521.

**FOR FURTHER INFORMATION CONTACT:** Questions about the manual update or National Environmental Policy Act (NEPA) process should be directed to: Mr. Brian Zettle, Biologist, Environment and Resources Branch, Planning and Environmental Division, U.S. Army Engineer District-Mobile, Post Office Box 2288, Mobile, AL 36628–0001; Telephone (251) 690–2115; or delivered by electronic facsimile at (251) 694–3815; or email: [brian.a.zettle@usace.army.mil](mailto:brian.a.zettle@usace.army.mil). You may also request to be included on the mailing list for public distribution of notices, meeting announcements and documents.

**SUPPLEMENTARY INFORMATION:** The Corps is updating the water control plans and manuals for the ACF Basin in order to improve operations to reflect changed conditions since the manuals were last developed. As explained in a November 2009 **Federal Register** Notice of Intent, 74 FR 59965 (November 19, 2009), and in the March 2010 Updated Scoping Report, the Corps previously narrowed the scope of the EIS for the WCM update to exclude from consideration certain water supply operations at the Buford Dam/Lake Lanier project that would have violated a July 2009 district court order. In June 2011, the U.S. Court of Appeals for the Eleventh Circuit vacated that 2009 district court order and directed the Corps to determine its legal authority to operate the Buford Dam/Lake Lanier Project to accommodate

water supply withdrawals. See *In re Tri-State Water Rights Litigation*, 644 F.3d 1160 (11th Cir. 2011). In compliance with the Eleventh Circuit's order, the Chief Counsel issued a legal opinion on June 25, 2012 (available at [http://www.sam.usace.army.mil/2012ACF\\_legalopinion.pdf](http://www.sam.usace.army.mil/2012ACF_legalopinion.pdf)), concluding that the Corps has the legal authority to accommodate both current and increased levels of water supply withdrawals from Lake Lanier and downstream at Atlanta. The Chief Counsel's legal opinion does not dictate what operational decisions will be made, with regard to water supply or otherwise, but it does establish certain analytical principles that will be taken into account as the Corps makes its final operational decisions at the conclusion of the WCM update process. Such decisions will be made in light of all applicable authorities, and will be guided by the legal principles articulated in the Chief Counsel's June 25, 2012 opinion.

In light of this legal opinion and the Eleventh Circuit's ruling, it is appropriate for the Corps to consider a broader range of water supply alternatives, including both current levels of water supply withdrawals and increased withdrawals, from Lake Lanier and downstream at Atlanta, that have been determined to be within the Corps' legal authority to implement. All other scoping aspects described in the March 2010 Updated Scoping Report remain the same. Information on the ACF River Basin and the Master Water Control Manual Update process will be posted on the Mobile District Web page as it becomes available: <http://www.sam.usace.army.mil>.

**Steven J. Roemhildt,**  
Colonel, Corps of Engineers, District Commander.

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**DEFENSE NUCLEAR FACILITIES SAFETY BOARD**

[Recommendation 2012–2]

**Hanford Tank Farms Flammable Gas Safety Strategy**

**AGENCY:** Defense Nuclear Facilities Safety Board.

**ACTION:** Notice, recommendation.

**SUMMARY:** Pursuant to 42 U.S.C. 2286a(a)(5), the Defense Nuclear Facilities Safety Board has made a recommendation to the Secretary of Energy concerning the Hanford Tank Farms flammable gas safety strategy.

**DATES:** Comments, data, views, or arguments concerning the recommendation are due on or before November 13, 2012.

**ADDRESSES:** Send comments concerning this notice to: Defense Nuclear Facilities Safety Board, 625 Indiana Avenue NW., Suite 700, Washington, DC 20004–2001.

**FOR FURTHER INFORMATION CONTACT:** Deborah H. Richardson or Andrew L. Thibadeau at the address above or telephone number (202) 694–7000.

Dated: October 5, 2012.

**Jessie H. Roberson,**  
*Vice Chairman.*

#### **RECOMMENDATION 2012–2 TO THE SECRETARY OF ENERGY**

*Hanford Tank Farms Flammable Gas Safety Strategy*

Pursuant to 42 U.S.C. § 2286a(a)(5) Atomic Energy Act of 1954, As Amended

Dated: September 28, 2012

#### **Background**

The Defense Nuclear Facilities Safety Board (Board) believes that current operations at the Hanford Tank Farms require safety-significant active ventilation of double-shell tanks (DSTs) to ensure the removal of flammable gas from the tanks' headspace. A significant flammable gas accident would have considerable radiological consequences, endanger personnel, contaminate portions of the Tank Farms, and seriously disrupt the waste cleanup mission. Further, the Board believes that actions are necessary to install real time monitoring to measure tank ventilation flowrates as well as upgrade other indication systems used to perform safety-related functions.

On August 5, 2010, the Board sent a letter to the Department of Energy (DOE) outlining issues related to the safety strategy for flammable gas scenarios at the Hanford Tank Farms. In its letter, the Board identified that the safety analyses for accident scenarios used non-bounding values for (1) the radiological inventory of the tanks and (2) the amount of waste that could be released in a major accident. Notwithstanding these non-conservatisms, DOE's safety analyses show that all of the DSTs generate flammable gas in sufficient quantities to reach the lower flammability limit (LFL) for hydrogen. Further, many of the tanks contain sufficient quantities of gas trapped in the waste such that the LFL could be exceeded if the gas were spontaneously released, which is possible under both normal operating and accident conditions. The current control strategy does not include any measures to periodically release the trapped gases in a controlled manner to preclude the accumulation of flammable concentrations.

DOE's safety analyses show that the potential flammable gas scenarios warrant a credited safety control due to the dose consequences to workers and the public. Accordingly, the ventilation systems for the DSTs were previously classified as safety-significant and credited in the documented

safety analysis for the Tank Farms to address flammable gas scenarios. The revision of the safety analysis approved by DOE on January 21, 2010, and implemented on March 30, 2010, reduced the DST ventilation systems from safety-significant to defense-in-depth and replaced them with a specific administrative control (SAC) for flammable gas monitoring.

In its August letter, the Board noted that DOE's SAC for flammable gas monitoring exhibited a number of weaknesses that collectively rendered it inadequate as a safety control. The reliance on an administrative control in lieu of an engineered feature is also contrary to DOE's established hierarchy of controls as well as sound engineering practice. Further, the Board noted that a number of other installed systems that are (1) necessary to provide accurate and reliable indications of abnormal conditions associated with flammable gas events, and (2) serve as a direct input to determining whether an operator action is required were not appropriately classified in accordance with their safety function.

In response to these issues, DOE, in a letter dated February 25, 2011, informed the Board that it had revised its decision to downgrade the DST ventilation systems and would take action to restore the systems to their former safety-significant status. Additionally, DOE indicated that the level indication systems for the DST annuli and the double contained receiver tank would be upgraded to safety-significant.

During the last year, the Board reviewed DOE's progress in meeting these commitments and addressing the Board's safety concerns. The Board noted that while some improvements had been made to the SAC used for flammable gas monitoring, it remained inadequate as a credited safety control. The SAC is less reliable than an engineered feature, remains susceptible to undetectable false low readings, and lacks independent verification.

Although DOE maintains a commitment to upgrading the DST ventilation systems and other installed non-safety-related instrumentation used to perform safety functions, the Board has concluded that no progress has been made in these areas, and the schedule for upgrades continues to slip. The latest schedule, outlined in a letter to the Board dated April 2, 2012, reflects a commitment to completing the upgrades to three of the five DST ventilation systems by fiscal year 2014. During the Board's June 2012 review, DOE indicated that even this was no longer a realistic schedule. DOE's current path forward is to upgrade only one of the DST ventilation systems (AY/AZ Tank Farm) by fiscal year 2015 to support mixer pump testing that is currently anticipated in 2016. No near-term procurement or installation plans are in place for the four other DST ventilation systems. Similarly, no plans or activities are proposed to upgrade the installed non-safety instrumentation systems being used in safety-related applications (e.g., the level indication systems for the DST annuli and the double container receiver tank).

#### **Conclusions**

The Board believes that DOE needs to upgrade the DST ventilation systems and other instrumentation systems used for safety-related functions at the Hanford Tank Farms. Further, the continued reliance on an inadequate SAC for flammable gas control presents an unnecessary risk to safety. At this time, DOE does not have a means to provide alternate ventilation if the existing ventilation system becomes inoperable. The hazards posed by flammable gas releases in DSTs and the challenges they pose to any ventilation system are directly proportional to the volume of flammable gas retained within the DST wastes. Reducing the current inventories of flammable gases retained in the DST waste and keeping them small would reduce the future hazards posed by gas release events.

#### **Recommendation**

Accordingly, the Board recommends that DOE:

1. Take near-term action to restore the classification of the DST ventilation systems to safety-significant. In the process, determine the necessary attributes of an adequate active ventilation system that can deliver the required flow rates within the time frame necessary to prevent and mitigate the site-specific flammable gas hazards at the Hanford Tank Farms.

2. Take near-term action to install safety-significant instrumentation for real-time monitoring of the ventilation exhaust flow from each DST.

3. Take near-term action to upgrade the existing installed non-safety-related equipment that is being used to fulfill safety functions at the Hanford Tank Farms to an appropriate safety classification. This includes instrumentation and control equipment whose indications are necessary for operators to take action to accomplish necessary safety functions.

4. Identify compensatory measures in case any existing DST ventilation systems become unavailable at the Hanford Tank Farms.

5. Evaluate means to reduce the existing inventory of retained flammable gases in a controlled manner. Since these gases will continue to be generated until the tank contents are processed, evaluate methods to reduce the future retention of flammable gases in these tanks or to periodically mix them to prevent the future accumulation of flammable gas inventories that could cause the tank headspace to exceed the LFL if rapidly released.

The Board urges the Secretary to avail himself of the authority under the Atomic Energy Act (42 U.S.C. § 2286d(e)) to "implement any such recommendation (or part of any such recommendation) before, on, or after the date on which the Secretary transmits the implementation plan to the Board under this subsection."

Peter S. Winokur, Ph.D.,  
*Chairman.*

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