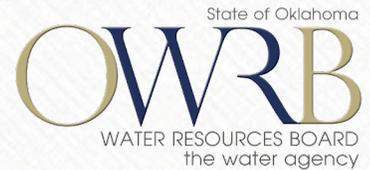


OKLAHOMA WATER RESOURCES BOARD DAM SAFETY QUARTERLY

Volume 2, Issue 2

Summer 2014



NEWSLETTER OF THE OKLAHOMA DAM SAFETY PROGRAM



Hydrology for Dam Safety



Canton Lake

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National Dam Safety Awareness Day

FROM ASDSO: National Dam Safety Awareness Day occurs each year on May 31 to commemorate the failure of the South Fork Dam in Johnstown, Pennsylvania on May 31, 1889. The Johnstown disaster was the worst dam failure in the history of the United States, with over 2,200 lives lost. National Dam Safety Awareness Day was created to encourage and promote individual and community responsibility and best practices for dam safety, and what steps people can take to either prevent future catastrophic dam failures or lessen the impact if a failure was to occur. Another important goal of National Dam Safety Awareness Day is to promote the benefits that dams offer.

ASDSO has been working closely with FEMA, the Johnstown Area Heritage Association, and the National Park Service on plans for National Dam Safety Awareness Day 2014. As this year's observation falls on the 125th anniversary of the Johnstown Flood, a national event will be held from 2:00-3:30 pm at the Peoples Natural Gas Park in Johnstown, PA. Speaking at the event will be ASDSO President Tom Woosley, Spaulding Pond dam failure survivor Tom Moody, and FEMA officials David Miller and Doug Bellamo.

[Join us here](#) on May 31 at 2:00pm ET for the live streaming of this event.

Canton Lake Dam Project: Stability and Spillway Modifications

This May, OWRB staff visited Canton Lake Dam's \$193 million, multi-phase dam safety modification project. The U.S. Army Corp of Engineers (USACE) is overseeing multiple construction contracts to correct deficiencies related to the stability of the existing spillway, seepage under the existing embankment, a hydraulic deficiency of not being able to pass the probable maximum flood event, and new seismic requirements. In order to address the hydraulic deficiency, the USACE selected to construct an auxiliary spillway equipped with nine fuse gates, each measured at 53 feet long, 21 feet wide, and 32 feet tall - the tallest fuse gates built to date. Construction on this project began in 2006 and is scheduled to be completed in its entirety in November 2017.



Canton Lake

Hydrology for Dam Safety Wrap- Up

In April, the OWRB hosted the Hydrology for Dam Safety technical seminar at the Sheraton Hotel in downtown Oklahoma City. Twenty-two engineers attended the seminar, including many from private firms as well as municipal, county, state, and federal agencies. The course, led by Dr. Baxter Vieux and Dr. Jonathan Looper, focused on the standard methods of hydrological calculations with an emphasis on applying them to dam safety studies and design. Topics included watershed characterization, developing the probable maximum storm hyetograph for a particular region, understanding appropriate applications for various routing and transform methods, and using HEC-HMS computer modeling to demonstrate hydrological principles and analysis techniques.

ACCO Winter Safety Conference

In February, the OWRB's Dam Safety and Floodplain Management staff gave presentations about the importance of dam safety awareness and the National Flood Insurance Program at the Winter Safety Conference hosted by the Association of County Commissioners of Oklahoma.

REMINDER:

**ASDSO 2014
National Conference
September 21-25
San Diego, CA**



[Registration details here.](#)

Emergency Action Planning Workshops

The OWRB's Dam Safety Program is pleased to announce free Emergency Action Plan (EAP) workshops in Oklahoma City and Tulsa this summer. We welcome all dam owners, engineers, and emergency managers to join us for this event. Participants will hear from guest speakers from the National Resource Conservation Service and the National Weather Service. There will also be time reserved for dam owners to speak with OWRB representatives regarding their specific EAPs, which must be updated each year and filed with the OWRB. Breakfast will be provided to those who reserve a seat at least one day before the event. **Please contact OWRB Dam Safety staff for details and reservations.**

**Wednesday, July 9, 2014
8:30AM-12:00PM**

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, Oklahoma 73118

**Wednesday, July 16, 2014
8:30AM-12:00PM**

Mohawk Water Treatment Plant
3600 Mohawk Boulevard
Tulsa, Oklahoma 74115

Upcoming Events

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|-----------|---|
| June 10 | ASDSO Webinar: Application of PFMA in Dam Safety |
| July 8 | ASDSO Webinar: Stepped Chute Spillway Design for Embankment Dams |
| July 9 | OWRB Emergency Action Planning Workshop, Oklahoma City |
| July 16 | OWRB Emergency Action Planning Workshop, Tulsa |
| August 12 | ASDSO Webinar: Seepage Monitoring and Analysis of Embankment Dams |

J.D. Strong, Executive Director
Oklahoma Water Resources Board

Julie Cunningham, Chief
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Yohanes Sugeng, P.E., Manager
Dam Safety Program

The Oklahoma Dam Safety Act recognizes that properly constructed, operated, and maintained dams used to impound water and create reservoirs for public and private beneficial uses constitute vital parts of the State of Oklahoma's water resources, and authorizes the Oklahoma Water Resources Board to regulate the construction, operation, and maintenance of dams to protect lives and property. Please e-mail comments and article ideas to pubinfo@owrb.ok.gov.