

# Dam Safety 101 – Workshop in Spokane

March 1, 2016

Target Audience:  
Dam Operators and Dam Safety Engineers for  
Licensees and Consultants

Speakers will include:  
FERC staff including Messrs. David Lord (Senior  
Civil Engineer) and Doug Johnson (Regional  
Engineer)

The FERC Division of Dam Safety and Inspections  
started a new program in 2014 of offering owners  
and operators of hydroelectric dams an  
introductory workshop on dam safety. It is  
intended for all dam owners including smaller  
utilities and owners of one dam. The Spokane  
workshop will cover how each type of dam  
maintains stability and can fail, historical failures,  
how to monitor dams to prevent failures, and how  
to reduce the consequences of a potential failure  
by having an effective Emergency Action Plan.  
Questions and Discussion will be encouraged.



**Buffalo Creek, West Virginia Dam Failure  
(1972) – 118 Lives Lost**



**Taum Sauk, Missouri Dam Failure (2005)  
Park Managers Home**

## **Tuesday, March 1, 2016**

- 1000 Welcome and Introductions of Audience Members
- 1010 Objectives of This Workshop
- 1020 How dams work, arch, rockfill, concrete and timber crib dams and how they can fail
- 1050 Historic case histories including Malpasset (arch) failure and Wanapum dam incident
- 1130 Consequences of dam failures
- 1200 Questions
- 1215 LUNCH (1 hr 15 min)
- 1330 Schoellkopf Plant disaster at 32 years after construction (film)
- 1350 Examples of Potential Failure Modes and how to inspect and monitor for them – Need to inspect facilities usually out of sight

- 1430 Why have Dam Safety Surveillance and Monitoring Plans (DSSMP) and Reports (DSSMR)
- 1500 BREAK (15 min.)
- 1515 Emergency Action Plans (EAP), Dambreak studies, and EAP Exemption Evaluations
- 1545 Part 12D Process
- 1600 Questions
- 1630 Wrap up

## **Wednesday, March 2, 2016 (Optional)**

- 9000 Site tour of Upriver Dam  
Details to be provided  
Tour will conclude by 1100

## **VENUE**

Avista Auditorium  
1411 E. Mission, Spokane, WA 99252

## **REGISTRATION INFORMATION**

Registration is free. Boxed lunch available onsite for \$10 fee.

To register, please go to the event date on the FERC Calendar at:

<http://www.ferc.gov/EventCalendar/>

## **Contact:**

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## **LODGING INFORMATION**

DoubleTree by Hilton, Spokane City Center  
322 N. Spokane Falls Ct.  
509-455-9600\*

\*Request "Avista Preferred Rate" by phone or book online, using the link below:

<http://doubletree.hilton.com/en/dt/reservations/index.html?hotel=SPCC-DT&corporateCode=560033074>

## **OTHER LODGING**

Fairfield Inn and Suites  
311 N. Riverpoint Blvd.  
509-747-9131

\*To receive discount, book by phone no later than 2/14, tell reservations you are attending the FERC meeting, and request group code FDS.

## **TRAVEL INFORMATION**

Parking – directly south of Avista at Mission Pool. Free.

## **Spokane Airport**

Taxi Cost: approx \$30 one way  
A-Cab 509-998-1774  
Spokane Cab 509-321-4862

Many hotels provide shuttle service from the airport, but a car is probably needed to get to Avista.