



Colorado Dam Safety Branch Technical Seminars on Hazard Classification and Spillway Hydrology

The Colorado Division of Water Resources Dam Safety Branch is hosting three 2-day technical seminars on the methods and procedures used to determine the hazard classification and spillway hydrology for dams within the State of Colorado. These seminars, led by professionals from the Colorado Dam Safety Branch, will include instruction and interactive workshops focused on the following topics:

- Hazard Classification: Discussion of the Colorado Dam Safety Branch “Guidelines for Hazard Classification” and “Guidelines for Dam Breach Analysis” for dams in Colorado in accordance with the State of Colorado’s Rules and Regulations for Dam Safety and Dam Construction.
- Spillway Hydrology: Discussion of the “Hydrologic Basin Response Parameter Estimation Guidelines” document and other methods used by the Colorado Dam Safety Branch for performing hydrology studies to determine the required spillway capacities for dams in Colorado in accordance with the State of Colorado’s Rules and Regulations for Dam Safety and Dam Construction.

The seminars are intended for engineers involved with the design and construction of dams in Colorado. Course participants should have a working knowledge of basin hydrology, river hydraulics, and be familiar with the U.S. Army Corps of Engineers HEC-RAS and HEC-HMS programs.

SEMINAR SCHEDULE:

Day 1: Hazard Classification (8am-5pm, Lunch Included)

- Morning session includes an overview of the Guidelines for Hazard Classification and Dam Breach Analysis and the methods for determining the dam breach peak discharge and hydrograph for flood routing.
- Afternoon session will include a workshop to determine the hazard classification of a sample dam using methods discussed in the Guidelines. Workshop will include a comparison of empirical equations and physically based models, as well as basic downstream flood routing.

Day 2: Spillway Hydrology (8am-5pm, Lunch Included)

- Morning session includes an overview of the Hydrologic Basin Response Parameter Estimation Guidelines and procedures used for determination of precipitation, basin hydrology, and reservoir routing for spillway design.
- Afternoon session will include a workshop to develop the rainfall, runoff, and reservoir routing of a sample basin and reservoir. The workshop will demonstrate the use of the Unit Hydrograph, Basin Response Guideline, and HEC-HMS to determine the required spillway capacity.

SEMINAR DATES/LOCATIONS:

March 15-16: Grand Junction, CO: Ute Water Conservancy District Office
April 5-6: Loveland, CO: Larimer County Events Complex, "The Ranch"
April 19-20: Colorado Springs, CO: Colorado Springs Utilities Office

REGISTRATION:

- Registration for the two day seminar is Free (Includes Lunch(s) and course materials), but seating is limited.
 - **Registration deadline is January 10, 2011 (Registration Form attached)**
 - Contact Mark Haynes with questions at 303-866-3581 ext. 8276, Mark.Haynes@state.co.us or at ColoradoDamSafety@state.co.us .
 - Upon receipt of the registration form, a confirmation will be sent with specifics of the selected venue and seminar agenda.
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REGISTRATION FORM

Colorado Dam Safety Branch Technical Seminars on
Hazard Classification and Spillway Hydrology

Name: _____

Company Name: _____

Address: _____

City: _____ State: _____ Zip: _____

E-mail Address (required for confirmation): _____

Telephone: _____

Location (select one):

- Grand Junction, March 15-16, 2011: _____
- Loveland, April 5-6, 2011: _____
- Colorado Springs, April 19-20, 2011: _____

Seminars to attend (select one or both):

- Hazard Classification (Day 1): _____
- Spillway Hydrology (Day 2): _____

Please mail, FAX or e-mail this registration form to:

Laura Kalafus

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