Dam Safety & Emergency Management

Montgomery County, Maryland Office of Emergency Management & Homeland Security (OEMHS) 9 May 2012

Agenda

- Introduction
- Dam Safety Factors
- Emergency Action Plan
- Montgomery County Dams
- Emergency Management & Dam Safety
- Dam Safety Program
- Training and Exercises
- Dam Safety Team approach
- Information Management WebEOC & Alert Montgomery
- Final Thoughts?

Dam Safety Depends on 5 Factors

- Complete Investigations
- Adequate Design
- Quality Construction
- Appropriate Operations, Maintenance, & Supervision
- Adequate Alarm Mechanism and Well-Adapted Emergency Action Plans

Emergency Management should support these two factors in any dam safety program

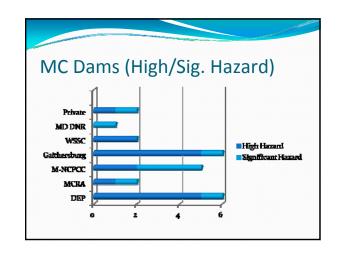
The Probability of Failure of a dam depends on many factors

- Spillway Capacity
- Seismic Resistance
- Nature of the Foundations
- Quality of Design
- Quality of Construction
- Monitoring
- Maintenance
- Human Factors -

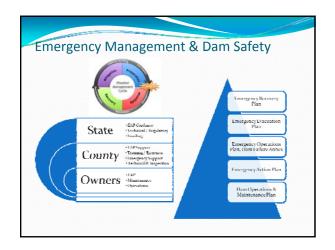
Emergency Management support during the preparedness & mitigation phase will enhance local government response and recovery operations in the event of a dam breach /emergency.

Maryland Emergency Action Plans

- Emergency Action Plan (EAP) purpose: <u>safeguard lives</u> and <u>reduce property damage</u> in the event that a dam should fail. The EAP contains:
 - a dam failure inundation map;
 - procedures to monitor a dam periodically and during flood warnings;
 - notify the County Emergency Operation Center of a potential dam failure; and
 - warn and evacuate the isolated residences at risk.
- These procedures are to supplement and be used in conjunction with the County's Emergency Operations Center.









Dam Safety Training & **Exercises** • Prior to 2010 - EAP support yearly (No EOC

- sponsored training and exercise support)
- Nov. 2010 Dam Owner Seminar
- Dec. 2010 Dam Owner Workshop / Tabletop
- May 2011 Hurricane Functional Exercise
- Jun 2011 Dam Owner and EOC Drill
- Dec. 2011 Dam Owner Workshop
- May 2012 MD Dam Safety Conference
- Jun. 2012 Dam Owner and EOC Drill
- Nov. 2012 Dam Owner Workshop

