




**Workshop: Accidents and Incidents –
What Can We Learn?
Stockholm on November 11-12, 2013**

**European Working Group
"Management of Dam Incidents"
Juha Laasonen**

1 14/11/2013 Power / Juha Laasonen 

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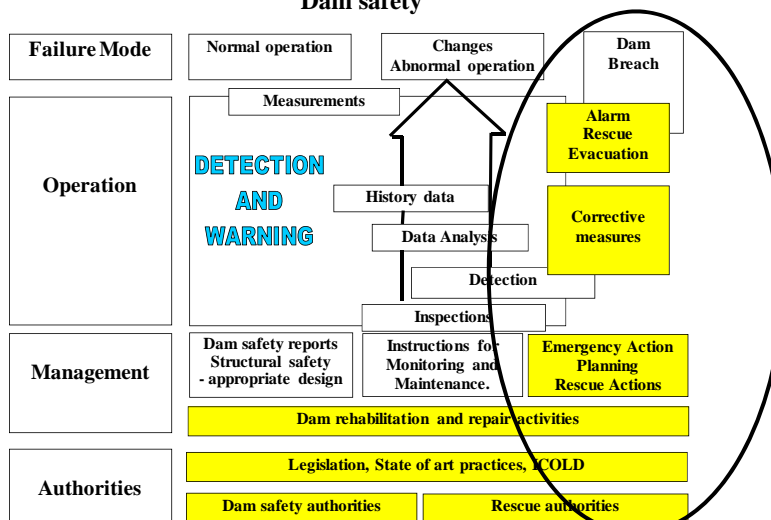
Introduction

- European Working Group was approved in Venice in April 2013
- Objectives:
 - Analysis of dam incidents and study the measures during the incidents
 - Improve dam safety practices
 - Improve the remedial measures during the dam incidents
 - Improve the co-operation between the countries and inside the country i.e. dam owner-authority-rescue operations



Scope of Works

Dam safety

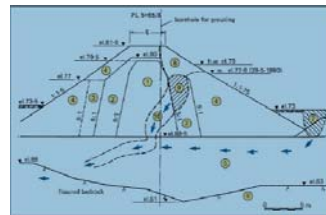


“Management of dam incidents” in Finland (1) Dam incidents

- Finnish dam safety authorities are collecting the information of the dam incidents.
- Dam incidents in Finland:
 - Soininkoski concrete dam, 1954, dam breach – leakage under concrete dam,
 - Peltokoski embankment dam, 1987, leakage – internal erosion
 - Uljua embankment dam, 1990, leakage – internal erosion
 - Melo embankment dam, 2005, leakage – internal erosion
 - Pamilo embankment dam, 2008. 2012, leakage – internal erosion
- Tailings dams incidents I Finland
 - 2 incidents / year in 2011 -2013



Laasonen, 2010



Kuusiniemi & Maijala, 2002

“Management of dam incidents” in Finland (2) Dam safety legislation

- The dam safety legislation was renewed and the practices were included in
 - Dam Safety Act (429/2009) and in
 - Government Decree on Dam Safety (319/2010).
- Tailings dams were included into the dam safety legislation in 2010
- The Rescue Act (468/2003) and the services of the Rescue Authorities are connected into the Dam Safety Act.

“Management of dam incidents” in Finland (3) Dam safety legislation

Chapter 5 of Dam Safety Act (494/2009):

- ***Preparing for accidents and action in the event of accidents***
 - Preventing accidents,
 - Rescue service plans,
 - Rescue activity,
 - Emergency call and notice of an exceptional situation as regards safety

“Management of dam incidents” in Finland (3) Dam safety legislation

Section 7 of Government Decree on Dam Safety (319/2010):

- ***Dam owner’s emergency action plan***
 - to prevent accidents in case of disturbances as well as to prevent and limit damages at the dam;
 - to protect humans, property and the environment against damage;
 - to report an accident.
 - The plan for the materials and equipment available for preventing an accident and the available staff.

“Management of dam incidents” in Finland (4) Training of emergency situations

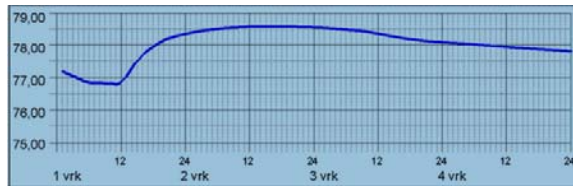
- **Training of the dam emergency situations**

- RESCDAM Project in 1999-2000

- [http://www.syke.fi/en-](http://www.syke.fi/en-US/Research_Development/Research_and_development_projects/Projects/Development_of_rescue_actions_based_on_dambreak_flood_analysis_RESCDAM)

- [US/Research_Development/Research_and_development_projects/Projects/Development_of_rescue_actions_based_on_dambreak_flood_analysis_RESCDAM](http://www.syke.fi/en-US/Research_Development/Research_and_development_projects/Projects/Development_of_rescue_actions_based_on_dambreak_flood_analysis_RESCDAM)

- **Seitakorva dam breach rehearsal, September 20-21, 2006**



Rantala, 2012

European Working Group

- **National Committee meeting in Jan./Feb. 2014**
- **Preparation of the questionnaires**
- **2nd Workshop in Finland 2014**

Rantala, 2012