IMPORTANT OPERATIONAL AND SAFETY ISSUES

Human Factors
Training
Manned or Unmanned Operation
Breadth of Responsibility for each Individual – are they stretched
Decision making responsibilities
Staffing – what’s reasonable?
Support staff to project
Response to abnormal data

Organizational Processes
Decision Processes
Security
Training
Succession Planning
Communication, Internal/External
Coordination
Change Mgmt
Configuration Control
Third Party Evaluations vs Working as a group
Maintaining historic info recording history
Interdisciplinary review of data
Program for design control
Response Time
Cost to implement / cost of failure
Reporting Process on data with conclusions and evaluation

Over Pump Protection/Water Mgmt
Spillway (DS hazard / No DS Hazard / Capacity)
Timing of overtopping - Capacity of pumps vs. capacity of spillway
Design basis for spillway
Functional testing vs simulation
Functional test period
Performance of dam under overtopping
Failsafe design
Time for Response
Description of alarms, alarm levels
EAP - Security – sabotage – hacking Public Education
Coordination with EMS
Testing
Alarms versus tripping
PUMPED STORAGE TECHNICAL GUIDANCE DOCUMENT
TASK GROUP

IMPORTANT OPERATIONAL AND SAFETY ISSUES

Equipment
Instrumentation and Monitoring
  Visual
  Instrumentation
  Calibration of levels
  Control Survey
  Visual surveillance
Interrogating data to see if it’s real – check vs other data in dbase
Credibility of instruments – do you have what you need? – do you have stuff you don’t need
Credibility of data
Controls
  Measuring rate of change/trends
System Redundancy
  Instrumentation
  Power supply
  Locale of system operators
Preventative Maintenance aspects