Pre-Flood Checklist

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“Are you aware that your flood insurance policy has lapsed?”
Why a Pre-Flood Checklist for your project??

- Utmost importance if your protecting, life, property, or community economics
- Worse Case Scenario- what can my plant or facility handle (hydraulics)
- Resources and Staffing
- Communications
- O&M Planning
- Annual Table Top Drills
- Budgets
Historical Data and PMFs

• Do your homework on historical flow data - what can I expect during my heavy flow season
• NOAA, USGS, USACE, Reservoir Control Center

• What is my maximum flows that I can pass?
• Am I Run of the River or Can I Store?

• What is the duration of the event?
Hydropower Plant Limitations

- What are the limitations at my plant or dam that would impact your ability to pass flows?
  - Head loss equals less flow through turbines
  - Could I lose my turbine flows?
  - What are my hydraulic capacities of routes of water: spillway, bypasses, high and low level outlets, navigation locks
  - Am I a Run of the River Project or do I have storage
  - Am I a shared resource on the watershed?
Staffing Preparedness

• Be prepared for staffing needed at your project during a flood event:

  • Roads and access to your project may be effected?
  • Use of Law Enforcement Agencies for Escort
  • Plan for staff to access if roads are closed?
  • Use of Boats, Helicopter or plane to bring in staff?
  • Housing and meals for Staff?
  • Potable Water?
  • First Aid Plan and Emergency Evacuation for injured worker?
Communications Planning

Communication is one of your greatest assets during an event.

- On Station Radios
- 2-Way Radios
- Cell Phones
- Portable Cell Tower
- Satellite Phones
Operations and Maintenance Planning

Maintenance Scheduling

- Spillways
- Generators
- Outlet Valves
- Bypasses
- Locks
- Auxiliary Water Systems

What is my debris collection system look like??

- Trash Racks
- Fishway Intakes
- Auxiliary Water Intakes
- Bypass Channel
- Grated intakes
- Manual or Auto Raking Systems
Annual Table Top Drills

- Leadership Roster/Decision Tree
- Communications Plan
- Operations Center Plan
- Emergency Preparedness
- Staffing Plan
- Facilities Assessment (RU Ready?)

- Run the Drill with Notice
- Run secondary Drill No Notice
Budget

Annual Budgeting Process
• What needs fixed to pass maximum flows?
• Have funds in advance for emergency repairs
• Budget for shorter work windows if needed
• Have contingency funds for emergency flood measures such as:
  • Overtime
  • Rental Equipment
  • Transportation
  • Staff Support
  • Contracting
  • Communications
QUESTIONS???

“Someday I’m going to quit this dam job.”

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