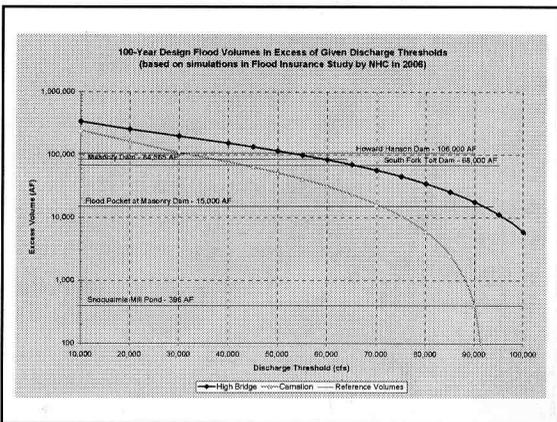
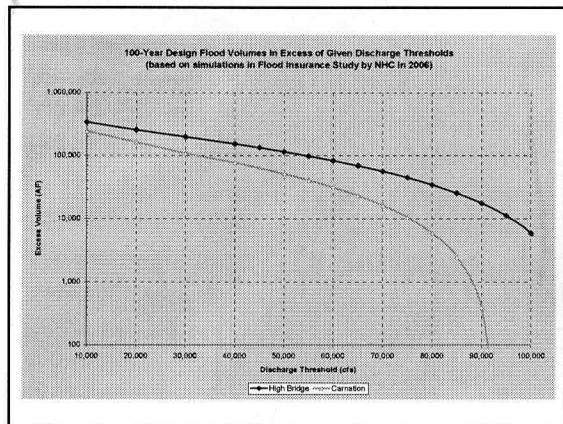
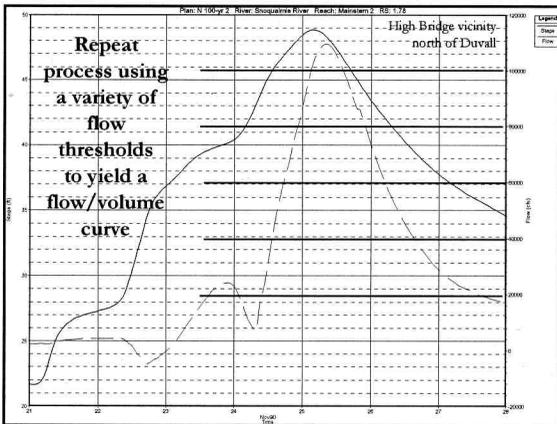
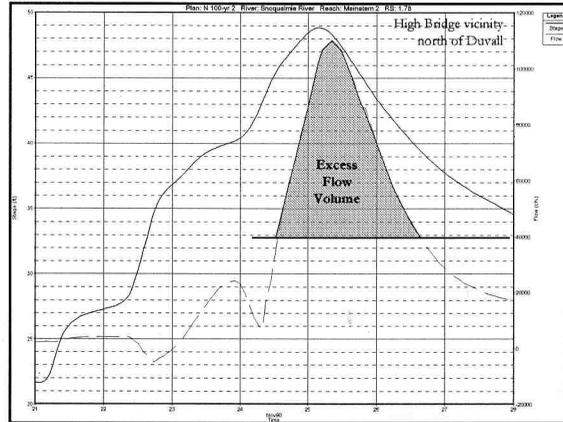


# Appendix I

## Excess Flood Volume

- Consider best available base flood (100-year) model prepared for FEMA by NHC in 2006
- Assume a flow threshold in Carnation or Duvall
- Compute volume of water in excess of threshold



## Excess Flood Volumes

- Computed flow volume in excess of threshold
- Flood control volume need would be larger
  - Forecast uncertainties
  - Local inflows (unregulated streams)
  - Travel time below reservoir
  - Multiple-reservoir coordination
  - Factor of safety
- Reservoir volume would be larger still
  - Water supply, hydroelectric
  - Habitat needs