Vulnerability of Delta Functions

There is a continuing need to implement a comprehensive plan to manage the risk of sudden catastrophic levee failure and inundation of Delta islands to protect the Bay-Delta system. Inundation would result in loss of agricultural production, wildlife habitat, and infrastructure. Increased salinity intrusion as a result of island inundation would adversely affect aquatic habitat, water quality, and water supply.

- **A. Ongoing Island Subsidence Increases Level Instability**
  - A.1. Accelerated Subsidence
  - A.2. Gradual Subsidence
- **B. Physical Condition of Levees Inadequate to Withstand Erosion and High Water**
  - B.1. Poor Materials/Construction
    - B.1.a. Uncompacted/ Poorly Graded
    - B.1.b. Organic Soils
  - B.2. Lack of Engineering Design
  - B.3. Lack of Proper Maintenance
    - B.3.a. Lack of Funding
    - B.3.b. Regulatory Constraints
    - B.3.c. Institutional Complexity
- **C. Physical Condition of Levees Inadequate to Withstand Maximum Credible Earthquake**
  - C.1. Poor Materials/Construction
    - C.1.a. Uncompacted/ Poorly Graded
    - C.1.b. Organic Soils
  - C.2. Lack of Engineering Design
  - C.3. Lack of Proper Maintenance
    - C.3.a. Lack of Funding
    - C.3.b. Regulatory Constraints
    - C.3.c. Institutional Complexity
  - C.4. Physical Performance of Levees Uncertain
- **D. Level of Flood Protection Too Low in Some Areas**
  - D.1. Ability of Channels to Pass Flood Flows
  - D.2. Ability of Levees to Withstand Flood Flows
- **E. Delta is Not Configured to Accommodate Upstream Flood Control Operations**
  - E.1. Inadequate Levee Heights
  - E.2. Inadequate Channel Capacities
- **F. Upstream Flood Control Management Doesn't Recognize Delta Needs**
  - F.1. Uncoordinated Flood Control Operation
  - F.2. Upstream Fac. Aren't Config. to Provide Benefits to the Delta

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