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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