

## **IMPLOSIONS**

1. General. Implosions proposed within or adjacent to an existing flood protection project can damage existing floodwall, gatewell, closure structure, pump plant or other flood protection feature and its foundation. Underseepage buried collector systems and relief wells may also become damaged.
  
2. Proposed implosion projects near flood protection projects should be considered the following items before submitting the implosion design procedure to the levee authority for review and approval.
  - 2.1 A pre-survey and inspection should be accomplished to protect the levee authority and the implosion contractor from damages claimed after the implosion in the area of influence. A post survey and inspection should be accomplished to document any impact to the area after the implosion has been accomplished. A remote camera device should be used to inspect all existing flood protection structures that are not accessible for visual inspection. Existing relief wells should be sounded and a record of the measurement should be submitted.
  
  - 2.2 A checklist of the inspection of the existing structures in the area of influence should be submitted to the levee authority to assure that all structures have been accounted for in the inspection.
  
  - 2.3 A schedule of implosion should be submitted for review and approval to include a list of local authorities that must be contacted and/or utilized to secure the area during implosion.
  
  - 2.4 The design of an implosion must consider negative impacts that may occur after the implosion.
    - 2.4.1 The removal of a building or other structure that contains below grade storage such as basements must consider that the remaining voids left within the flood protected critical zone are considered excavation. These excavations can lead to underseepage piping failure during high river events and a post implosion design must be submitted to eliminate any possible underseepage failure into these below grade voids.
  
    - 2.4.2 A flood contingency plan should be submitted to address the methods to be used to safeguard against an increase in the river stage during implosion cleanup and damage remediation to any flood protection features.
  
  - 2.4 Post implosion plans should be submitted for review which address the cleanup efforts and estimated schedule for the project.