ANNIE Concept Sketch
First Water Vessel Studies

First loading - 16,000 lbs. UDL on each side wall and bottom
Water Vessel – ½” A-36 steel
weight of steel container is approx. 10,500 lbs.
Water weight is approx. 60,000 lbs.
General Water Vessel & Detector Mechanical considerations

Each foot of water depth will increase the pressure on detectors by 0.43 psi.

Present LAPPD tile is designed for 22 psi – could have thicker window?

Cost of water vessel fab. is approx. $35,000.

Each 8” x 8” 60 channel tile detector’s power is 5V and 2A.

Water proofing electronics will require serious attention. Humiseal layer + Marine cast elastomer coating – thermal conductive + not elect. Conductive? May be possible to have electronics outside vessel.

8” X 8” Tile Sensor attachment might be water proof velcro?