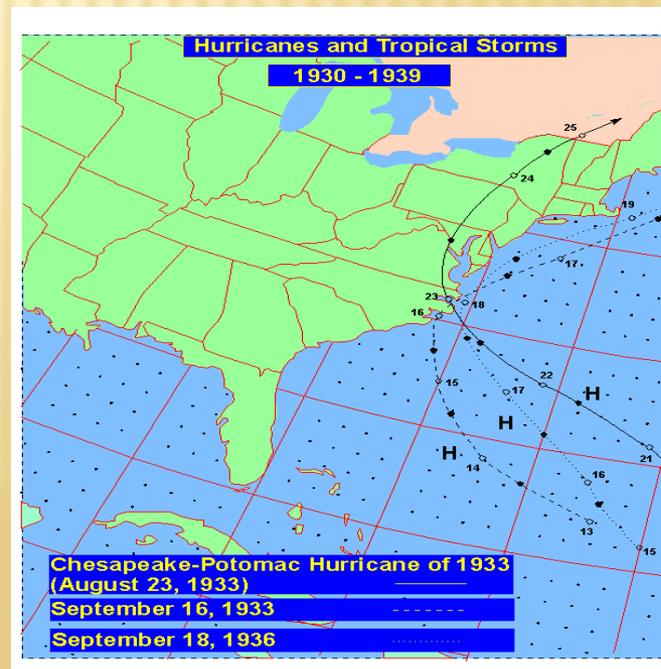
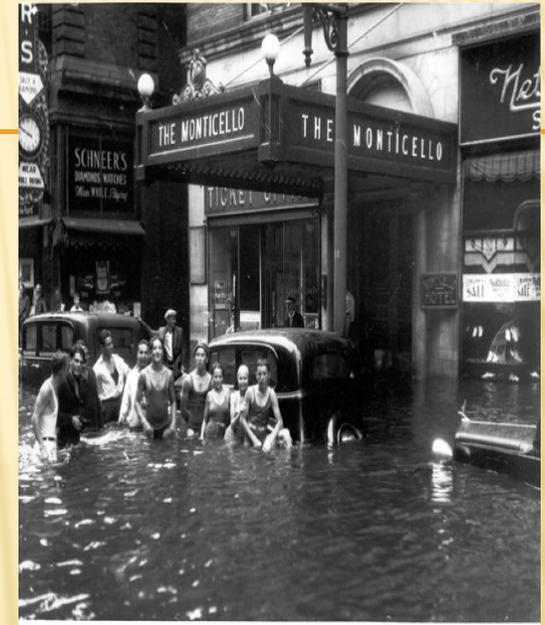


Presented to the Hampton Roads Planning District Commission
February 10, 2010
Richard R, Flannery, CFM

CATASTROPHIC EVENTS

VIRGINIA – 1933 HURRICANE

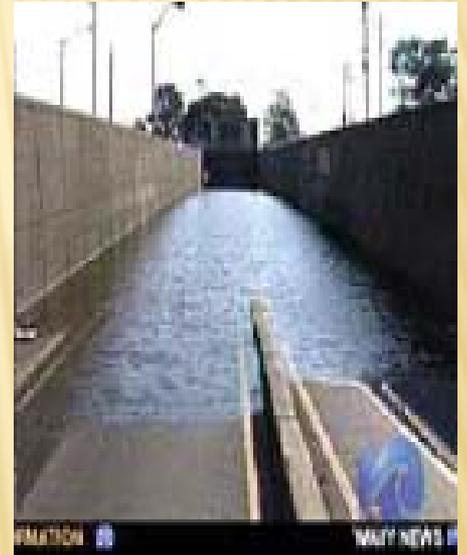
- ✘ Heavy damage was seen with this storm in Virginia
- ✘ Winds rose to 75 mph at Hampton Roads, 87 mph at Cape Henry, and 88 mph at Norfolk Naval Air Station.
- ✘ Tides reached 8.3 feet above mean lower low water at Sewells Point
- ✘ This hurricane reshaped the peninsula where New Point Comfort lighthouse stood into an island.



EVACUATION



COMPROMISED ROAD INFRASTRUCTURE



NOR'EASTER – LOCAL EVACUATION



LEAVING HOUSTON



I-10 PENSACOLA, FL - IVAN 9/2004



BILOXI HWY 90 AFTER KATRINA



OAKLAND, CA - APRIL 2007

- ✘ A stretch of road near the San Francisco-Oakland Bay Bridge collapsed after a gasoline tanker truck overturned



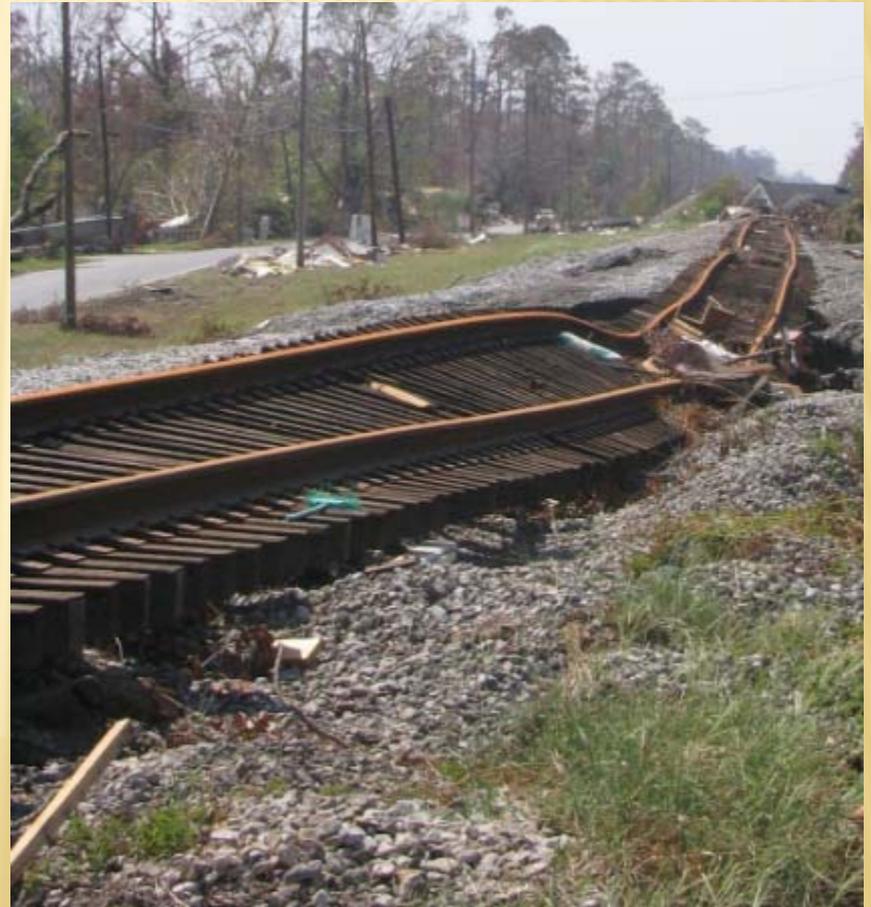
SHELTERING – SHORT TERM



RAILWAYS



This house was swept by the storm surge for several blocks before being dropped on these tracks



FLOODED/DAMAGED HOMES



HOUSING/BUSINESSES DAMAGED



TEMPORARY SOLUTIONS?

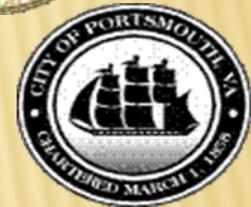
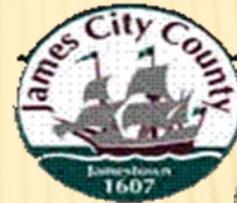


YOUR CONCERNS

- ✘ What keeps you awake?
 - + Do current regional efforts address your needs?
- ✘ Local/State/Federal Coordination
 - + Differing responsibilities
- ✘ What can I take back to REMTAC?

POTENTIAL FY11 UPWP ITEMS

- ✘ Recovery
 - + Housing and Businesses
- ✘ Resiliency
 - + Pre-State and/or FEMA
 - + Communications
 - + Risk Communications
 - + Debris
- ✘ Strategy for Recovery Planning



QUESTIONS?