The Pre-Nuclear Explosion Public Information Campaign
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We Border A Major U.S. City That Is A Likely Terror Target.
I met with and gathered insights from 100 first responders.
Hiroshima following a 10 kiloton nuclear explosion
An intercontinental ballistic missile (ICBM).
Difference Between Terrorism and the Cold War
Perceptions Shaped by the Cold War

Figure from National Council on Radiation Protection and Measurements, 1982. The Control of Exposure of the Public to Ionizing Radiation in the Event of Accident or Attack. NCRP Symposium proceedings (Session C, Topic 2; Radiological Instrument Requirements for a National Emergency Such as Nuclear Attack, FEMA)
The “Worst” Part Is The Aftermath.
Results of a Nuclear Bombing in Los Angeles

- 10,000 will die instantly.
- 50,000 will be dead within 24 hours.
- 150,000 will be injured.
- Many of these will be injured by fallout. Some of these will die.
- Flash blindness in 2,500 people.
- Retinal burns in 1,100 people.
- At Least 99,000 will be dead of all causes by 8 weeks.
### Reported Propensity to Self-Evacuate

<table>
<thead>
<tr>
<th>Type of Attack</th>
<th>“Very” &amp; Somewhat Likely</th>
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<tbody>
<tr>
<td>Nuclear</td>
<td>83%</td>
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<tr>
<td>Radiological</td>
<td>76%</td>
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<tr>
<td>Chemical</td>
<td>67%</td>
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Your First Instinct Might Be To Run!
The Stress on Health Care in the County

Ventura County would receive:

- 275 trauma cases
- 425 burn cases
- 175 acute radiation syndrome cases
- 900 victims with multiple injuries
- 900 blind, permanently or temporarily
- 7,500 injured by fallout (maybe many more)
Day Two

• Ventura County has an infrastructure that supports 832,000 people.
• On Day Two there will be as many as 2,000,000 more people eating, sleeping, drinking, needing toilets and parking or walking away from up to 1,000,000 additional cars.
VENTURA COUNTY
NUCLEAR EXPLOSION
RESPONSE PLAN

Version 2.2 DRAFT
Hotspot 2.05 Nuclear Explosion  Oct 18, 2004  12:54 PM  Release Location:

**Inner:** 10 rem (486 km²)  **Middle:** 5.0 rem (704 km²)  **Outer:** 1.0 rem (2E+03 km²)

**Dose Time Interval:** External Dose in First Four Days from Fallout Ground Deposition

**Nuclear Yield:** 10.0 kT

**Effective Windspeed:** 11.0 mph
Plume Tracking Group

- Air Resources Laboratory – HYSPLIT
- On-ground L.A. sensors map
OR

• NOAA satellite weather maps
• Utilize own local radiation sensors
• Less sophisticated programs e.g., Hotspot
Contingency Planning

Local
“God bless the child who’s got his own” – Do local authorities need to be prepared for everything until help arrives?

Federal resources
Can be expected to arrive late.
• Part of helping ourselves will be to create a *pre-*nuclear event public education campaign
Jams

Everything in life is a story. Make your story jam.
APPROVED
VENTURA COUNTY
NUCLEAR EXPLOSION RESPONSE PLAN

Version 3.0
August 8, 2011