An Easily Distributed Tool for Bomb-Threat Protective Actions

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Charles Rives

National Nuclear Security Administration

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DOE NA-41 NNSA Emergency Management Update

September 2010

The DOE/NNSA Office of Emergency Management (OEM) has issued the following Emergency Management Update relating to new Standardized Bomb Threat Stand-off. Using the Emergency Management Issues Special Interest Group (EMI SIG) Listserv, OEM periodically sends updates related to emergency management topics of interest.

Previous issues of updates are available on the EMI SIG website and on the Subcommittee on Consequence Assessment and Protective Action (SCAPA) page. Generally, in cases where the subject requires more than one page of discussion, the update includes a summary discussion and links are provided for more detail.

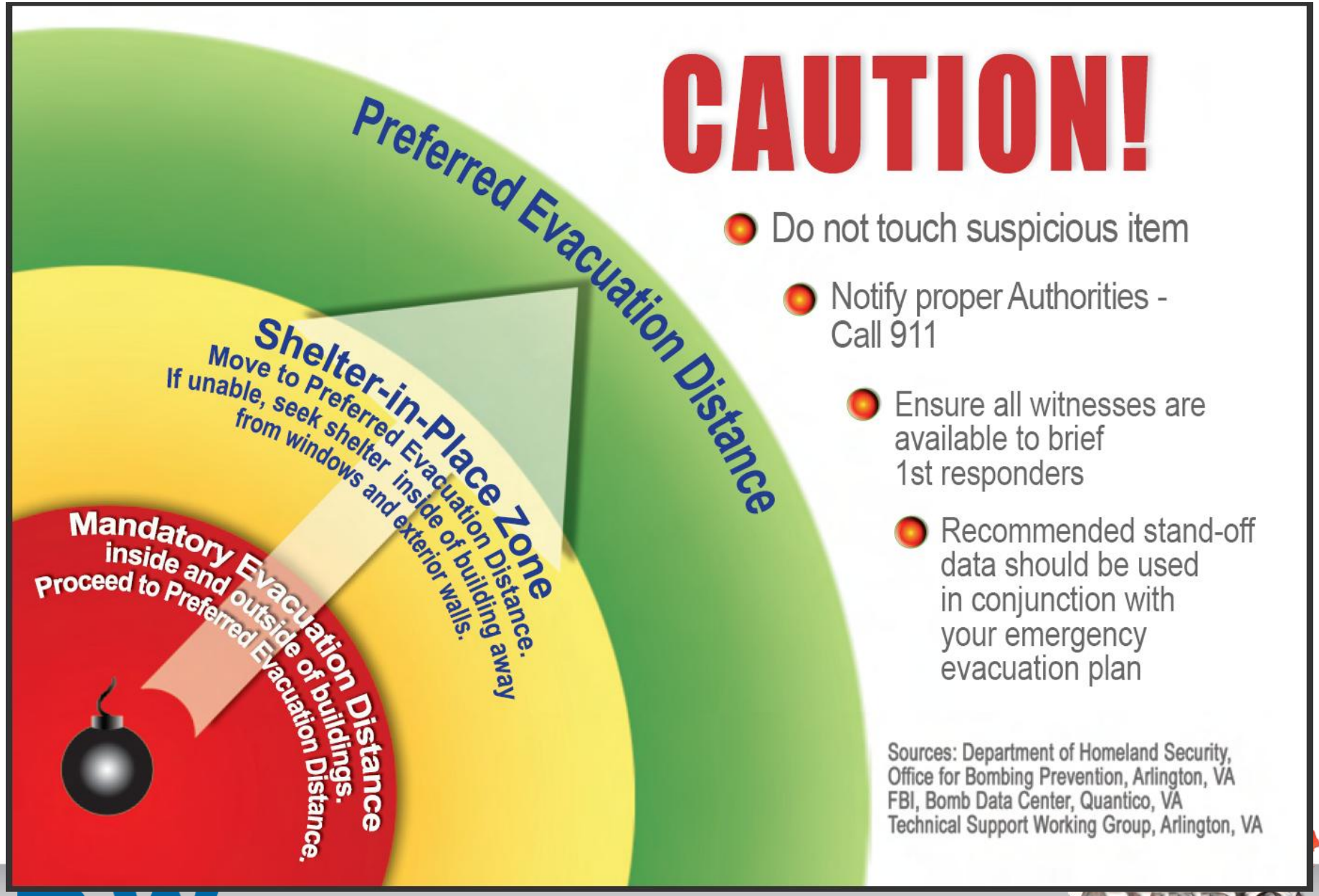
New Standardized Bomb Threat Stand-off Card

The Department of Homeland Security (DHS) Office of Bombing Prevention (OBP) recently released a revised card providing uniform guidelines for explosive device safe standoff distances. Developing consensus-based guidelines was part of the implementation plan for HSPD-19 and is the result of efforts by Federal agencies and partner law enforcement organizations.

It captures extensive technical research projects and tests documenting peak air blast overpressure and fragmentation hazards distances. The June 2010 cards are being distributed as part of the DHS/OBP training and outreach schedule. You may access a copy by clicking on the link above.

BOMB THREAT STAND-OFF CARD

Threat Description	Explosives Capacity	Mandatory Evacuation Distance	Shelter-in-Place Zone	Preferred Evacuation Distance
Pipe Bomb	5 lbs	70 ft	71-1199 ft	+1200 ft
Suicide Bomber	20 lbs	110 ft	111-1699 ft	+1700 ft
Briefcase/Suitcase	50 lbs	150 ft	151-1849 ft	+1850 ft
Car	500 lbs	320 ft	321-1899 ft	+1900 ft
SUV/Van	1,000 lbs	400 ft	401-2399 ft	+2400 ft
Small Delivery Truck	4,000 lbs	640 ft	641-3799 ft	+3800 ft
Container/Water Truck	10,000 lbs	860 ft	861-5099 ft	+5100 ft
Semi-Trailer	60,000 lbs	1570 ft	1571-9299 ft	+9300 ft



CAUTION!

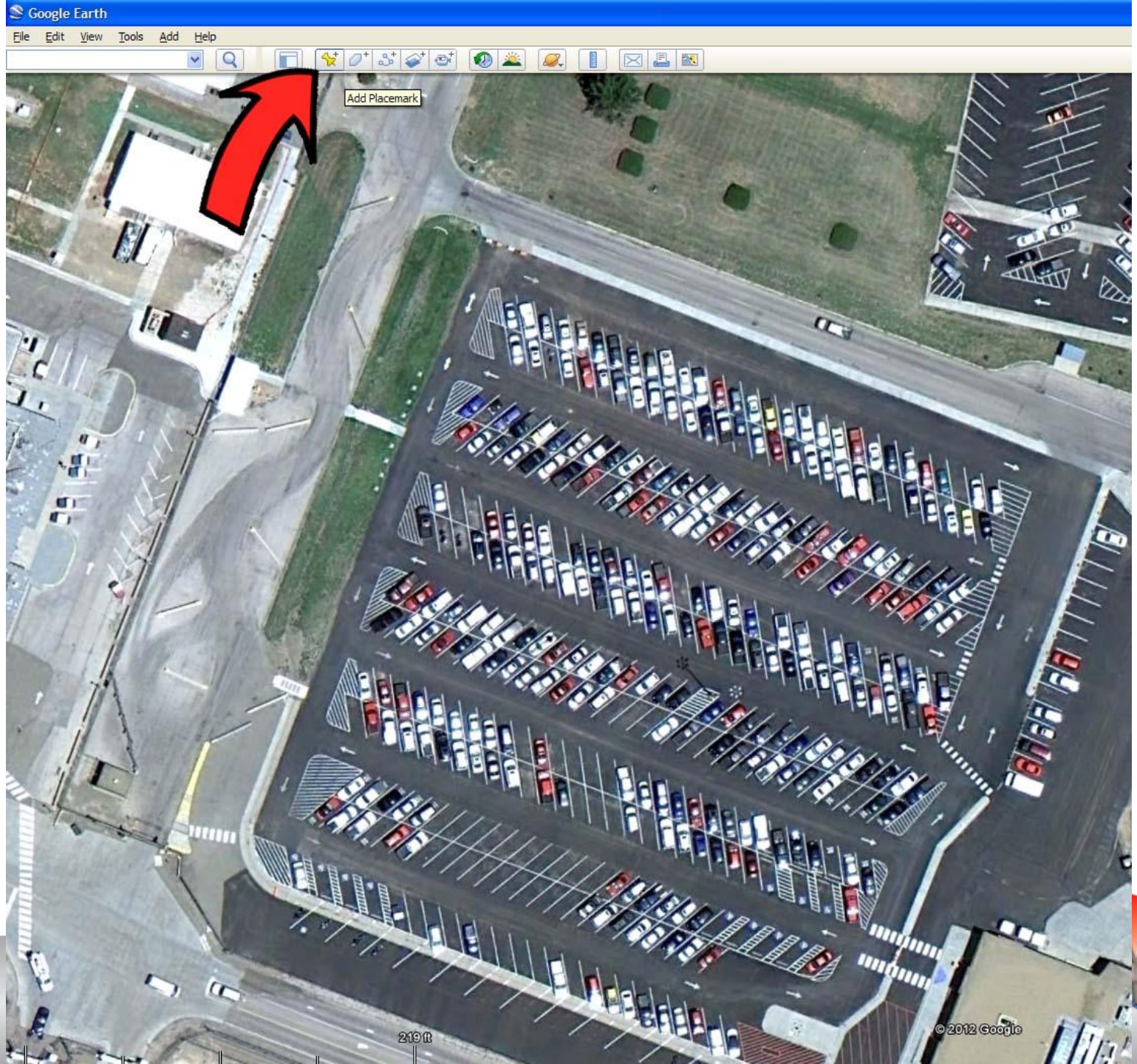
- Do not touch suspicious item
  - Notify proper Authorities - Call 911
    - Ensure all witnesses are available to brief 1st responders
      - Recommended stand-off data should be used in conjunction with your emergency evacuation plan

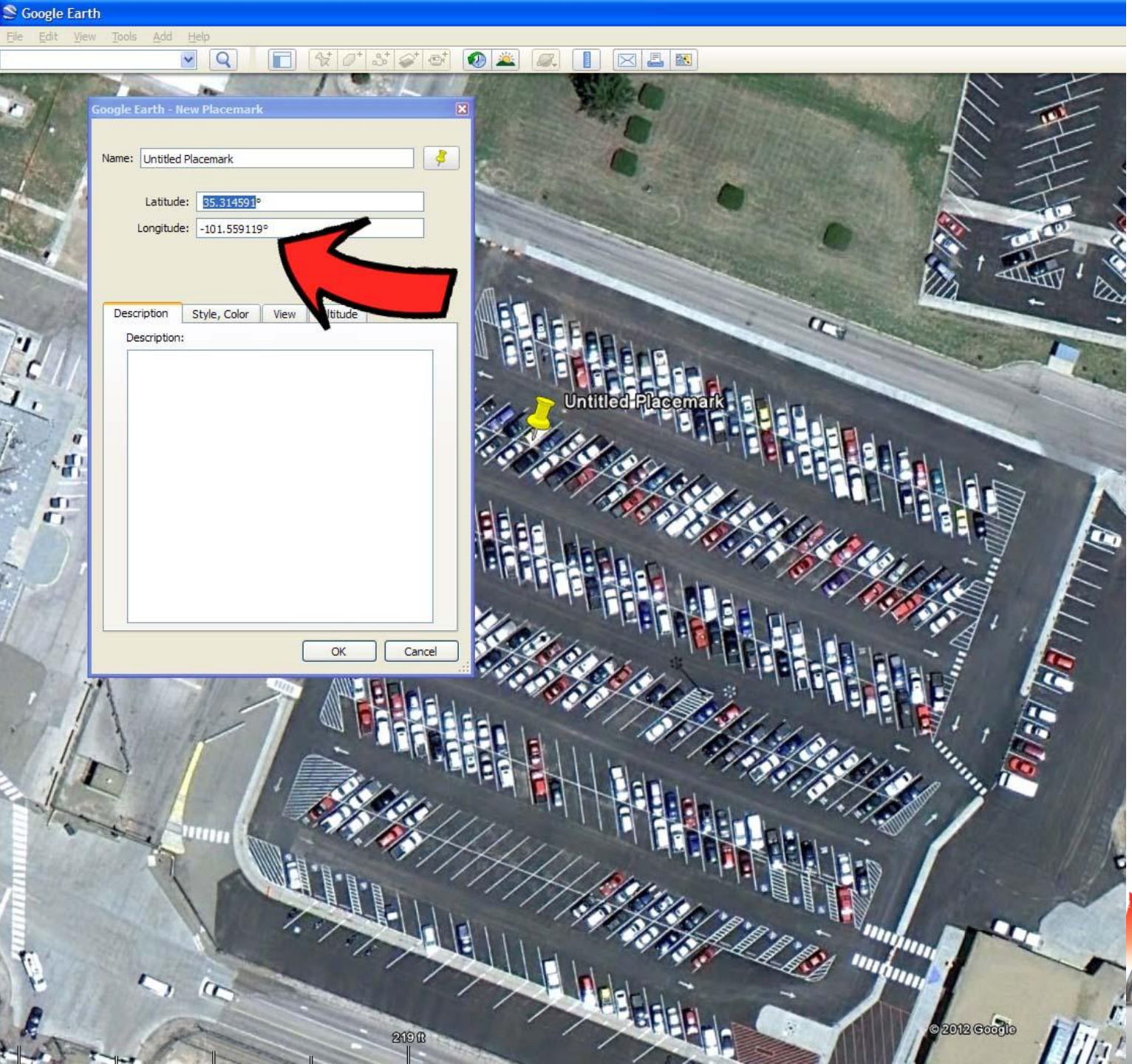
Sources: Department of Homeland Security, Office for Bombing Prevention, Arlington, VA
FBI, Bomb Data Center, Quantico, VA
Technical Support Working Group, Arlington, VA

The Team

Tools

- Web Browser shows a page that looks like the HSPD-19 Card
- Clicking on a line launches a location input (Lat/Lon) page
- Some hosted script develops a kml polygon in a circular shape and of the right diameter.
- The kml file is opened in Google Earth (or another KML Viewer)


Google Earth
File
Edit
View
Tools
Add
Help
Add Placemark
219 ft
© 2012 Google


Google Earth
File Edit View Tools Add Help
Google Earth - New Placemark
Name: Untitled Placemark
Latitude: 35.314591°
Longitude: -101.559119°
Description
Style, Color
View
Description:
OK
Cancel
Untitled Placemark
219 ft
© 2012 Google

Briefcase/Suitcase - Microsoft Internet Explorer provided by ITM

S:\772\CONTINUITY AND EMERGENCY PROGRAMS\FY2011\Intern David Rojas\Bomb Threat Standoff Project\briefcase.html

File Edit View Favorites Tools Help

Favorites | WebEOC 7.3 Prod | WebEOC Dev-QA | NOAA | NARAC | Communicator! NXT 4.1.1 | Dict | EMI SIG | EOTA | ESi Support | FoodSafety | Labelmaster | ANL

Pantex Intranet Home Page | Briefcase/Suitcase | Briefcase/Suitcase

Page Safety Tools

Home

How to use

Enter Data for Radius Circles

Conversions for North America Only

Degrees, Decimal Minutes **Latitude** ° ' North

Degrees, Decimal Minutes **Longitude** ° ' West

Clear Values | Convert to Decimal for Circle Plot

Degrees/Minutes/Seconds **Latitude** ° ' "North

Degrees/Minutes/Seconds **Longitude** ° ' " West

Clear Values | Convert to Decimal for Circle Plot

Manual Entry for Worldwide

Decimal Degrees **Latitude** 35.314591

Decimal Degrees **Longitude** -101.559119

Bomb Type: Briefcase/Suitcase

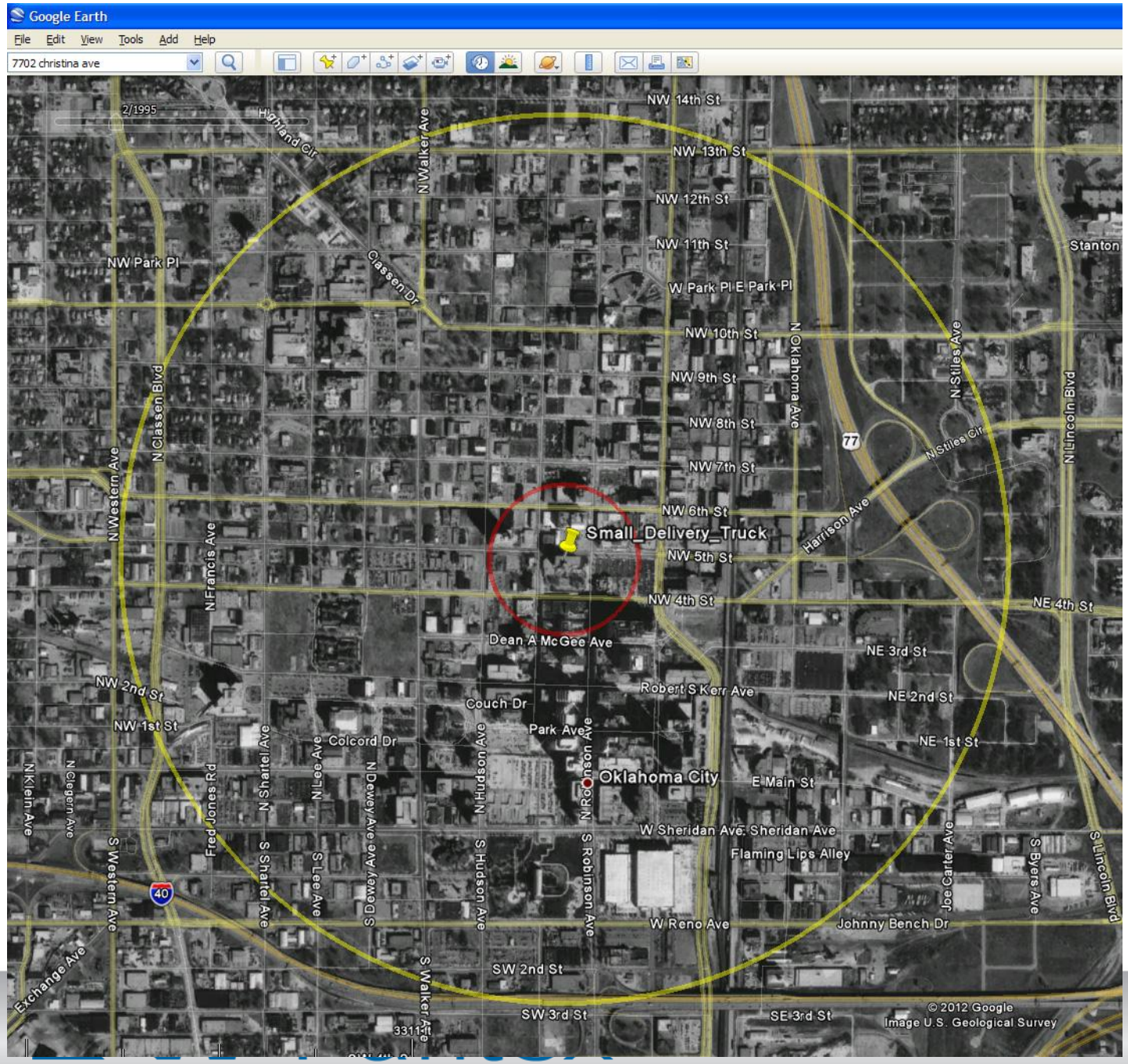
Create KML File | Reset

Done | Local intranet | 110%

SECURING AMERICA

Qualitative Historic Validation – Helps us feel confident in our tool

A TEST CASE



technical services

A VPP Star Site

SECURING AMERICA

Google Earth

File Edit View Tools Add Help

7702 christina ave

4/1990

1990 2011

Small_Delivery_Truck

N Hudson Ave

N Harvey Ave

N Robinson Ave

NW 4th St

Dean A McGee Ave

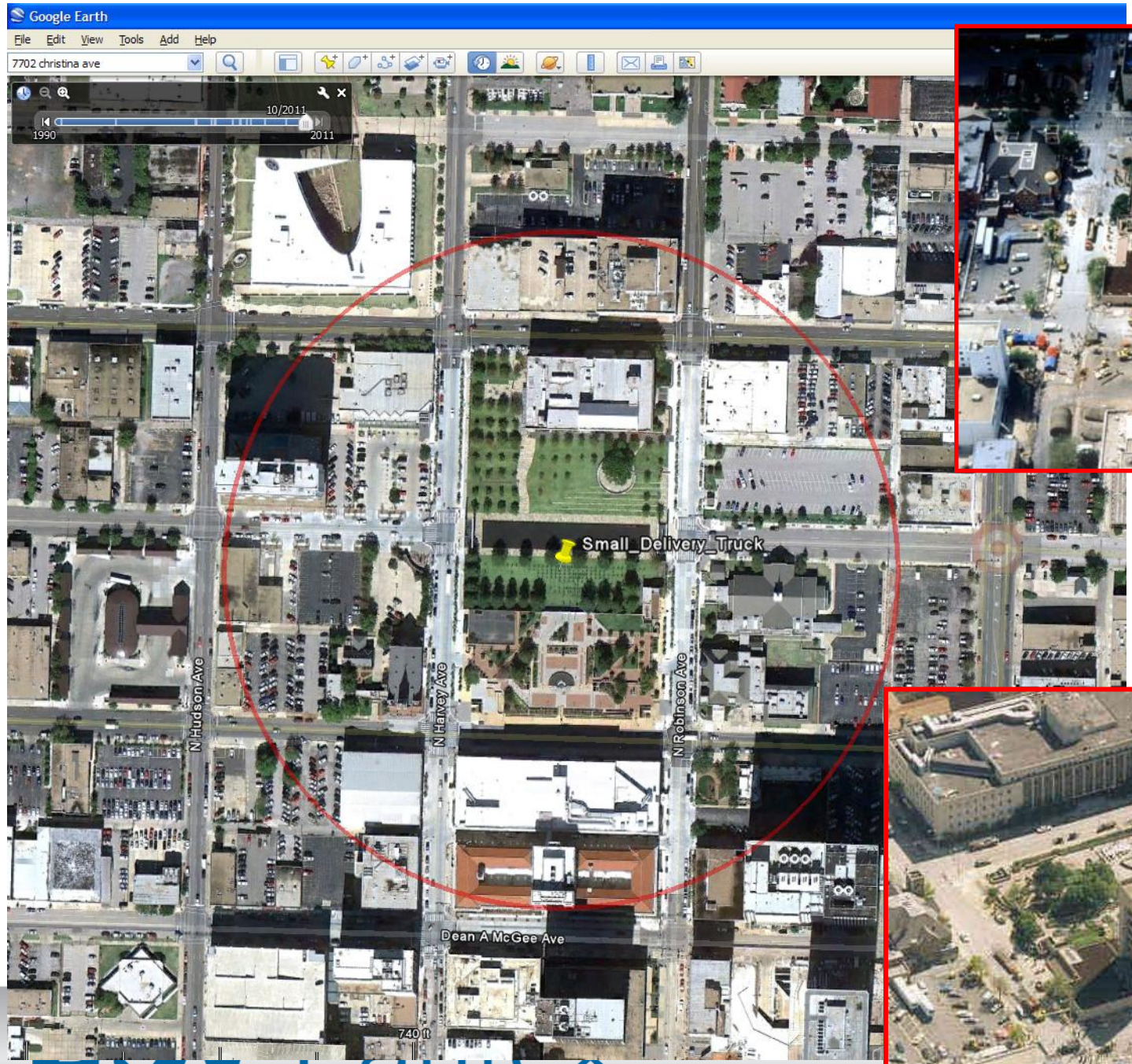
NW 3rd St

N Broadway

740 ft

© 2011 Google

Image U.S. Geological Survey


Google Earth
File Edit View Tools Add Help
7702 christina ave
10/2011
1990
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Small_Delivery_Truck
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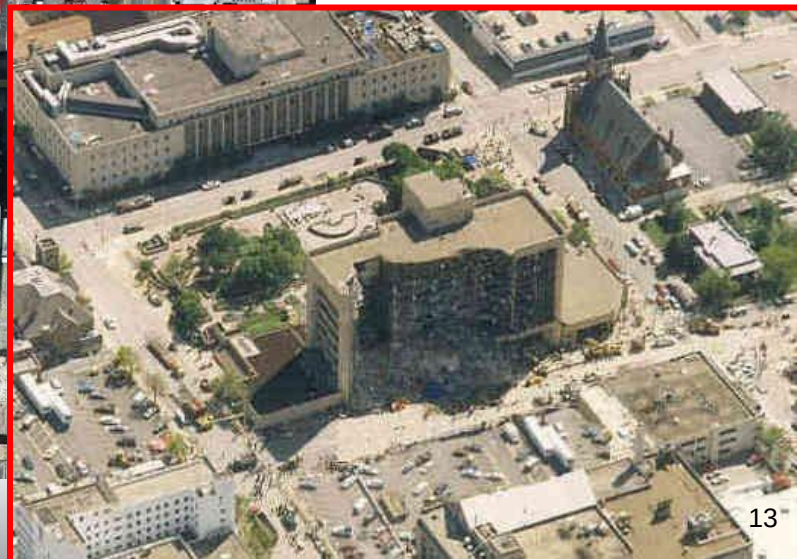
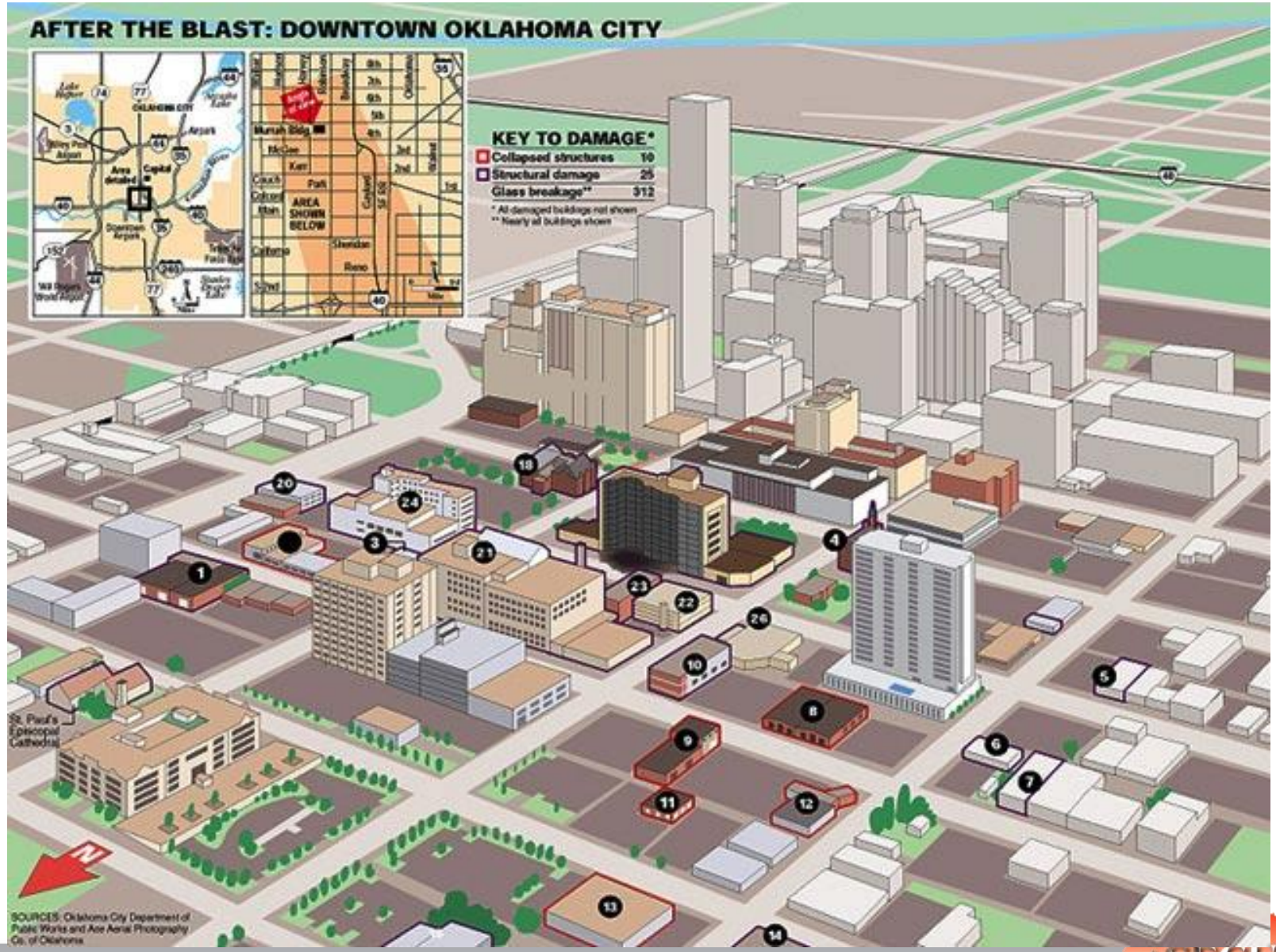
Dean A McGee Ave
740 ft




AFTER THE BLAST: DOWNTOWN OKLAHOMA CITY
KEY TO DAMAGE*
Collapsed structures 10
Structural damage 25
Glass breakage** 312
* All damaged buildings not shown
** Nearly all buildings shown
AREA SHOWN BELOW
St. Paul's Episcopal Cathedral
N
SOURCES: Oklahoma City Department of Public Works and Ace Aerial Photography Co. of Oklahoma

Output

- **Either the kml file or a jpeg from the kml viewer**
  - Easily sent electronically
  - Can go to mobile devices