






TOPOFF 4 Exercise

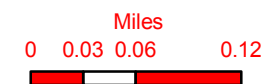
Portland, Oregon

Blast Area

Legend

NARAC Product for HE
OR Set 3 - FRMAC-IMAAC Blast Effects
from High Explosives

-  > 100 psi
Fatalities in over 99% of the population.
-  > 25 psi
Onset of lethality
-  > 10 psi
Onset of lung damage
-  > 5.0 psi
Onset of eardrum rupture
-  > 0.5 psi
Onset of shattered glass from
blast effects.



EXERCISE EXERCISE
TOPOFF 4

IMACC OR-Set3

Geospatial Technology
Operations

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Disaster Services

