

National Windstorm Impact Reduction Program (NWIRP)

Program Purpose

- Reduce loss of life and property from windstorms through improved understanding of risks and impact
- Shift focus from post-disaster recovery to pre-disaster investments
 Improve windstorm resistance of new & existing buildings

Implementation

- Developed ICC/NSSA 500 storm shelter standard
- International Building Code requirement that K-12 schools and emergency responder facilities in tornado prone region include storm shelters

Impact of Windstorms

• Tornado, Tropical Cyclone/Hurricane, Thunderstorm, Winter storm, etc. resulted in 5000 fatalities, \$1 trillion in economic loss from 1980 to 2017

https://science.house.gov/hearings/calm-before-the-storm-reauthorizing

 $\underline{the-national-windstorm-impact-reduction-program}$



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FEMA Windstorm Critical Facility Assessment Critical facilities: Emergency operations centers Healthcare facilities · Police and fire stations, • Schools Guidelines for Wind • Power stations Vulnerability Assessments Target audience: of Existing Critical Facilities • Building owners • Building renovation design professionals S FEMA • Agencies developing mitigation plans or awarding grants for mitigating existing buildings Section 5.2: Exterior Glazing and Shutters • Risk to glazing is breakage from wind-borne debris from hurricanes or tornadoes NGΛ https://www.fema.gov/media library/assets/documents/183150?utm_source=GD&utm_ medium=ces&utm_campaign=windvulnerability 3



