Case Studies on School Resilience

Building Innovation Conference 2014

John Bremer,
Office of Emergency Management
Katy Independent School District
Katy ISD:
The law of large numbers

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<tr>
<td>3</td>
<td>48</td>
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<td>4</td>
<td>58</td>
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<tr>
<td>9</td>
<td>20,000</td>
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<tr>
<td>11</td>
<td>67,600</td>
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<tr>
<td>181</td>
<td>12,000,000</td>
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Overall Approach
Resilience
Resilience in School Facilities

Resiliency is the ability of communications systems to withstand and continue to perform after damage or loss of infrastructure.

By extension resilience of other infrastructure would be the ability to withstand and continue to perform after damage or loss of some component or components.
Resilience in School Facilities

“The ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions; includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents.”

NIPP 12/17/2013
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<tr>
<th></th>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A (Not Applicable)</th>
<th>N/A (Not Assessed)</th>
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<tbody>
<tr>
<td>1</td>
<td>The facility has an electronic security system.</td>
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<td>2</td>
<td>All buildings are equipped with closed-circuit digital video system.</td>
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<td>3</td>
<td>Video security system housings are designed to protect against tampering, vandalism, and exposure to extreme temperature or moisture.</td>
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<td>4</td>
<td>Video security systems have an uninterruptible power supply, and are connected to the building’s emergency power supply.</td>
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<td>5</td>
<td>The video security system is protected with adequate firewalls so it cannot be broken into.</td>
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<td>6</td>
<td>Security camera tapes/recordings are retained for 30 days.</td>
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Major Concerns

1. Natural Phenomena
2. The Built Environment
3. Targeted Violence
4. Spill-over Crime
5. Before and After School Events
Prevention?
Prevention?
Prevention?
Prevention?
Case Study 1 - Hurricane Ike
Case Study 2
Fuel Leak
Case Study 3 - Threat

Houston Division

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Katy Man Arrested for Making a Terroristic Threat

FBI Houston
October 03, 2012

Special Agent Shauna Dunlap
(713) 936-7638
The Asymmetric Threat
Case Study 5
Cascading Events & Complex Incidents
Implications for school resilience on the larger scale.