DISASTER RESILIENCE FRAMEWORK

25% Draft for Hoboken, NJ, Workshop

23 July 2014

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0. Introduction[1]

0.1 Plan for Developing Community Disaster Resilience

0.1.1. Disaster Resilience Framework

0.1.2. Model Resilience Guidelines

0.1.3. Workshops

0.1.4. Disaster Resilience Standards Panel

0.2. Key Elements in Disaster Resilience Framework

0.3. Need for Resilience Standards

0.4. Alignment with Other Resilience Programs

1. The Community

1.1 Social Vulnerabilities

1.2 Social Networks and Capital

1.3 Social Needs of a Community

1.2.1 Business and Industry

1.2.2 Shelter and Food

1.2.3 Healthcare

1.2.4 Education

1.2.5 Government

1.2.6 Recreation, Arts, and Culture

1.2.7 Public Safety and Security

1.3 Risk Communication and Public Education and Training

[1] A new Chapter 1 has been added which was accommodated by the numbering shown. All chapters will be renumbered after the Hoboken Workshop.

2. Community Disaster Resilience for the Built Environment

3. Examples of Community Disaster Resilience

3.1. Introduction

3.2. Past Performance of Communities and Their Critical Buildings and Infrastructure Systems

3.2.1. 2005 Hurricanes Katrina and Rita

3.2.2. 2012 Hurricane Sandy

3.2.3. 2011 Joplin Tornado

3.2.4. 2013 Colorado Flooding

3.2.5. 1994 Northridge Earthquake

3.2.6. 2010 Chile Earthquake

3.2.7. 2011 New Zealand Earthquake

3.2.8. 2013 Japan Tsunami

3.2.9. 2007 Southern California Wildland-Urban Interface Fires

3.2.10. 2012 Colorado Wildland-Urban Interface Fires

3.3. Current Performance and Common Problems

3.4. Challenges for Disaster Resilience Standards Development and Harmonization.

4. Sectors, Interdependencies and Cascading Effects

4.1. Introduction

4.2. Interdependencies of Sectors

4.3. Buildings and Transportation

4.4. Buildings and Lifelines for Functionality

4.5. Transportation and Lifelines for Functionality

4.6. Energy and Other Lifelines

5. Building Sector

6. Transportation Sector

10.1. Community Resilience Metrics

10.2. Prioritization of Resilience Alternatives

10.3. Risk Management

11. Recommendations and Next Steps

11.1. Standards Identified for Implementation

11.2. Priority Action Plans for Standard Development

11.3. Research Needs