DISASTER RESILIENCE FRAMEWORK

50% Draft for Norman, OK Workshop

20 October 2014

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1. Introduction (To be included in 75% Draft)

1.1. Community Disaster Resilience

1.1.1. Introduction and Purpose

1.1.2. Scope of Framework

1.2. Need for Resilience Guidance, Metrics and Tools

1.2.1. Risk Methodology for Resilience Assessment

1.2.2. Review of Available Metrics and Tools for Community Resilience

1.2.3. Review of Sector Codes and Regulations

Address stove-piping issue and need for overarching performance criteria

1.3. Key Elements in Disaster Resilience Framework

1.2.1. Disaster Resilience Framework

1.2.2. Stakeholder Workshops

1.2.3. Disaster Resilience Standards Panel

1.2.4. Model Resilience Guidelines

1.4. Alignment with Other Resilience Programs

1.4.1. Federal Programs

1.4.2. State and Local Programs

1.4.3. Non-Profit Programs

2. The Community

2.1. Introduction

2.2. The Community Defined

2.2.1. Levels of a Community

2.2.1.1. Society (or Culture)

2.2.1.2. Community Systems

5.1.3. Interdependencies

5.2 Building Classes and Uses

5.2.1. Government

5.2.2. Healthcare

5.2.3. Schools and Daycare Centers

5.2.4. Religious and Spiritual Centers

5.2.5. Residential including Neighborhood Commercial Districts

5.2.6. Business and Services

5.3. Performance Goals

5.4 Regulatory Environment

5.5 Standards and Codes

5.5.1. New Construction

5.5.2. Existing Construction

5.6. Resilience Assessment Methodology

5.6.1 Assessment Methodology (current conditions, including dependence on sources outside the community)

5.6.2 Strategies for new/future Construction

5.6.3. Strategies for Existing Construction

5.6.4 Addressing Gaps in Resilience Plans

5.7 Tools Needed for Resilience

5.7.1. Standards and Codes Gaps

5.7.2. Practice and Research Needs

5.8. Summary and Recommendations

6. Transportation Sector

6.1. Introduction

6.1.1. Social Needs and System Performance Goals

6.1.2. Interdependencies

6.2. Transportation Infrastructure

6.2.1. Roads, Bridges, Highways, and Road Tunnels

6.2.2. Rail and Subway Systems

6.2.3. Air

6.2.4. Ports, Harbors, and Waterways

6.2.5. Pipelines

6.3. Performance Goals

6.4. Regulatory Environment

6.4.1. Federal

6.4.1.1. Federal Highway Administration

6.4.1.2. Federal Transit Administration

6.4.1.3. Federal Railroad Administration

6.4.1.4. Federal Aviation Administration

6.4.1.5. US Coast Guard (USCG)

6.4.2. Regional

6.4.3. State

6.4.4. Local

6.5. Standards and Codes

6.5.1. New Construction

6.5.1.1. Implied or Stated Performance Levels for Expected Hazard Levels

6.5.1.2. Recovery levels

7.8. Summary and Recommendations

7.9. References

8. Communication and Information Sector

8.1. Introduction

8.1.1. Social Needs and System Performance Goals

8.1.2. Reliability vs Resilience

8.1.3. Interdependencies

8.2. Critical Communication and Information Infrastructure

8.2.1. Landline Telephone System

8.2.1.1. Central Offices

8.2.1.2. Transmission and Distribution

8.2.2. Internet Systems

8.2.2.1. Internet Exchange Points (IXP)

8.2.2.2. Internet Backbone

8.2.3. Cellular/Mobile Systems

8.2.3.1. Cell Towers

8.2.3.2. Backhaul Facilities

8.3. Performance Goals

8.4. Regulatory Environment

8.4.1. Federal

8.4.2. State

8.4.3. Local

8.4.4. Overlapping Jurisdictions

8.5 Standards and Codes