

**APPENDIX C  
SECTION C.1  
CRITICAL FACILITY IDENTIFICATION  
OVERVIEW**

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## **APPENDIX C-CRITICAL INFRASTRUCTURE IDENTIFICATION**

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### **IDENTIFICATION OF CRITICAL FACILITIES AND THEIR VULNERABILITIES**

#### **WHY THIS IS DONE:**

##### **Instructions in the Federal Regulation Stipulate:**

##### **Requirement §201.6(c)(2)(ii) (A):**

The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas

##### **Requirement §201.6(c)(2)(ii) (B):**

The plan should describe vulnerability in terms of an estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(ii)(A) of this section and a description of the methodology used to prepare the estimate.

## CRITICAL FACILITY DEFINITION:

### *Federal Definition:*

- Water & Wastewater Treatment Plans
- Power Generating Plants
- Hazardous Waste Sites
- Major Infrastructure
- Hospitals
- Emergency Shelters
- Fire/Police Stations
- Government Buildings
- Libraries
- Daycare Centers
- Retirement Homes
- Cultural Resources
- Historical Sites
- Grocery Stores
- Fuel Stations
- Pharmacies
- Airports

## FACILITIES AND PRIORITIES IDENTIFIED AS IMPORTANT TO PARTICIPATING JURISDICTIONS:

### ***Facilities:***

- Emergency Response Agencies
- Government Offices and Properties
- Health Care Providers
- Resources (for services and supplies in a crisis)

### ***Priorities:***

- What keeps our government going?
- Where do we put the injured?
- What agencies take care of personal needs?
- Short-term vs. long-term needs?
- Other needs?

## CATEGORIZATION OF PRIORITIES:

- Emergency Response
- Government
- Health Care Providers
- Resources
- Infrastructure/Transportation
- Fire/Law Enforcement/Emergency Medical Services
- Primary Seat of Government
- Historical Sites
- Hospitals/Pharmacies/Clinics
- Wal-Mart/Lumber Yards
- Voluntary Agencies
- Utilities/Roads/Bridges
- Resources (for services and supplies in a crisis)

Vulnerability is calculated using the “Potential Damage” estimations and the “Table of Probability vs. Impact.” The chart shown here illustrates the potential vulnerability of structures based upon their location, age and type of construction. Some hazards have little impact on structures (e.g., drought, extreme heat), while other hazards have an enormous impact (e.g., high winds, tornados). For instance, a wood structure over 50 years old, located in a rural setting has a much greater vulnerability to wildfire than if it were located in a metropolitan setting. However, if that were a brick structure in the same setting, the vulnerability would be less significant.

LOCATION: METROPOLITAN					
Type construction	Less than 10 yrs	< 30 yrs	< 50 yrs	> 50 yrs	> 75 yrs
Wood	20%	30%	50%	75%	90%
Metal	15%	25%	40%	65%	90%
Masonry /Concrete	10%	20%	35%	60%	70%
Brick	10%	20%	35%	50%	60%

LOCATION: URBAN					
Type construction	Less than 10 yrs	< 30 yrs	< 50 yrs	> 50 yrs	> 75 yrs
Wood	20%	30%	50%	75%	90%
Metal	15%	25%	40%	65%	90%
Masonry /Concrete	10%	20%	35%	60%	70%
Brick	10%	20%	35%	50%	60%

LOCATION: RURAL					
Type construction	Less than 10 yrs	< 30 yrs	< 50 yrs	> 50 yrs	> 75 yrs
Wood	20%	30%	50%	75%	90%
Metal	15%	25%	40%	65%	90%
Masonry /Concrete	10%	20%	35%	60%	70%
Brick	10%	20%	35%	50%	60%

Using the determinations of the probability of each identified hazard, the impact of the loss of that facility is then calculated. The combination of the two factors produces the

likely impact of a specific hazard upon that same structure. Although the probability of a hazard affecting a specific structure may be high, but the impact of damage or loss is low, then the overall impact is ranked in a lower category. The Table of Probability vs. Impact is also shown here.

Estimated values of structures, contents, infrastructure and other identified resources are provided through local assessors and insurers.

PROBABILITY OF AN EVENT	PROBABILITY vs. IMPACT								
	Highly Likely 70-100%								
Likely 50-70%									
Possible 30-50%									
Unlikely 10-30%									
POTENTIAL DEGREE OF IMPACT	Minimum		Moderate		Major		Total		
	10-30%		30-50%		50-70%		70-100%		