

# HAZARD VULNERABILITY ANALYSIS

## INSTRUCTIONS:

Evaluate every potential event in each of the three categories of probability, risk, and preparedness. Add additional events as necessary.

Issues to consider for probability include, but are not limited to:

1. Known risk
2. Historical data
3. Manufacturer/vendor statistics

Issues to consider for risk include, but are not limited to:

1. Threat to life and/or health
2. Disruption of services
3. Damage/failure possibilities
4. Loss of community trust
5. Financial impact
6. Legal issues

Issues to consider for preparedness include, but are not limited to:

1. Status of current plans
2. Training status
3. Insurance
4. Availability of back-up systems
5. Community resources

Multiply the ratings for each event in the area of probability, risk and preparedness. The total values, in descending order, will represent the events most in need of organization focus and resources for emergency planning. Determine a value below which no action is necessary. Acceptance of risk is at the discretion of the organization.

**Reviewed and Adopted,  
Environment of Care Committee  
June 1, 2009**

Thresholds below which no preparatory  
action or plan is required:

Natural Events	10 or below
Technological Events	10 or below
Human Events	10 or below

EVENT	PROBABILITY				RISK					PREPAREDNESS			TOTAL
	HIGH	MED	LOW	NONE	LIFE THREAT	HEALTH/SAFETY	HIGH DISRUPTION	MOD DISRUPTION	LOW DISRUPTION	POOR	FAIR	GOOD	
SCORE	3	2	1	0	5	4	3	2	1	3	2	1	
<b>NATURAL EVENTS</b>													
Tornado		X			X						X		20
Flood, External	X						X				X		18
Hurricane	X				X							X	15
Epidemic			1.5			X					X		12
Tidal Wave			X			X					2.5		10
Severe Thunderstorm	X						X					X	9
Ice Storm			X			X					X		8
Earthquake			X			X					X		8
Temperature Extremes		X						X				1.5	6
Snow fall			X					2.5			X		5
Blizzard			0.5			X					X		4
Drought			1.5						X		X		3
Wild Fire			X						X			X	1
Volcano				X				2.5		X			0
Landslide				X				2.5			X		0

EVENT	PROBABILITY				RISK					PREPAREDNESS			TOTAL
	HIGH	MED	LOW	NONE	LIFE THREAT	HEALTH/SAFETY	HIGH DISRUPTION	MOD DISRUPTION	LOW DISRUPTION	POOR	FAIR	GOOD	
SCORE	3	2	1	0	5	4	3	2	1	3	2	1	
<b>TECHNOLOGICAL EVENTS</b>													
Flood, Internal		X				X					2.5		20
Transportation Failure		X						2.5		X			15
Information Systems Failure		X					X				2.5		15
Medical Gas Failure			1.5		X						X		15
Unavailability of Supplies			1.5			4.5					X		14
Electrical Failure		X					X				X		12
Medical Vacuum Failure			1.5			X					X		12
Water Failure		X				X						1.5	12
Sewer Failure			X				3.5			X			11
Fire Alarm Failure			1.5		X							1.5	11
HVAC Failure		X						2.5			X		10
Hazmat Exposure, Internal			1.5			X						1.5	9
Generator Failure		X				4.5						X	9
Structural Damage			X			X					X		8
Fire, Internal			1.5		X							X	8
Steam Failure		X						X			X		8
Fuel Shortage			1.5				X					1.5	7
Communications Failure			1.5					2.5				1.5	6
Natural Gas Failure			X					X			X		4

EVENT	PROBABILITY				RISK					PREPAREDNESS			TOTAL
	HIGH	MED	LOW	NONE	LIFE THREAT	HEALTH/ SAFETY	HIGH DISRUP-TION	MOD DISRUP-TION	LOW DISRUP-TION	POOR	FAIR	GOOD	
SCORE	3	2	1	0	5	4	3	2	1	3	2	1	
<b>HUMAN EVENTS</b>													
Terrorism, Chemical		X			X					X			30
Mass Casualty Incident (trauma)		2.5			X					X			* -
Mass Casualty Incident (medical)		2.5			X					X			* -
Mass Casualty incident (hazmat)		2.5			X					X			* -
Terrorism, Biological		X			X						2.5		25
Infant Abduction			1.5		X					X			22.5
Hostage Situation / Armed Suspect / Active Shooter			1.5		X						2.5		19
VIP Situation		X					3.5				2.5		18
Hazmat Exposure, External		X				X					X		16
Biological Event / Epidemic, Pandemic		<u>2.5</u>				X					X		20
Bomb Threat		X					3.5				X		14
Civil Disturbance			X			X					X		8
Forensic Admission			X						1.5		2.5		4
Labor Action				X				X			2.5		0

\* Response limited pending reopening of Emergency Department and Trauma Services

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