

# 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 in which no action is necessary. Acceptance of risk is at the discretion of the organization.

**NOTE:** The following list is only a sample of events, which could apply. Use the events that apply to your facility only. Be aware that once you have identified an event as a possibility then you are required to have a policy in place to address that event.

## HAZARD VULNERABILITY ANALYSIS SAMPLE

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>NATURAL EVENTS</b>													
Hurricane				X									
Tornado				X									
Severe Thunderstorm		2							1			1	2
Snow Fall			1						1			1	1
Blizzard				X									
Ice Storm				X									
Earthquake				X									
Tidal Wave				X									
Temperature Extremes		2							1			1	2
Drought		2							1			1	2
Flood, External				X									
Wild Fire				X									
Landslide				X									
Volcano				X									
Epidemic			1					2				1	2

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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>TECHNICAL EVENTS</b>													
Electrical Failure			1				3					1	3
Generator Failure			1		5							1	5
Transportation Failure				X									
Fuel Shortage				X									
Natural Gas Failure				X									
Water Failure			1			4						1	4
Sewer Failure			1			4						1	4
Steam Failure			1					2				1	2
Fire Alarm Failure			1		5							1	5
Communications Failure			1					2			2		4
Medical Gas Failure			1				3				2		6
Medical Vacuum Failure			1			4						1	4
HVAC Failure			1					2				1	2
Information Systems Failure			1						1		2		2
Fire, Internal			1		5								5
Flood, Internal			1				3					1	3
Hazmat Exposure, Internal			1						1			1	1
Unavailability of Supplies				X									
Structural Damage				X									

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EVENT	PROBABILITY				RISK					PREPAREDNESS			TOTAL
	<i>HIGH</i>	<i>MED</i>	<i>LOW</i>	<i>NONE</i>	LIFE THREAT	HEALTH/ SAFETY	HIGH DISRUP-TION	MOD DISRUP-TION	LOW DISRUP-TION	<i>POOR</i>	<i>FAIR</i>	<i>GOOD</i>	
<b>SCORE</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	
<b>HUMAN EVENTS</b>													
Mass Casualty Incident (trauma)				X									
Mass Casualty Incident (medical)				X									
Mass Casualty Incident (hazmat)				X									
Hazmat Exposure, External				X									
Terrorism, Chemical				X									
Terrorism, Biological			1		5							1	<b>5</b>
Civil Disturbance			1					2				1	<b>2</b>
Bomb Threat			1		5							1	<b>5</b>