

## **Exhibit 6 Hazard and Vulnerability Analysis**

### **INSTRUCTIONS:**

Evaluate potential for event and response among the following categories using the hazard specific scale.

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 **response** include, but are not limited to:

- 1 Time to marshal an on-scene response
- 2 Scope of response capability
- 3 Historical evaluation of response success

Issues to consider for **human impact** include, but are not limited to:

- 1 Potential for staff death or injury
- 2 Potential for patient death or injury

Issues to consider for **property impact** include, but are not limited to:

- 1 Cost to replace
- 2 Cost to set up temporary replacement
- 3 Cost to repair

Issues to consider for **business impact** include, but are not limited to:

- 1 Business interruption
- 2 Employees unable to report to work
- 3 Customers unable to reach facility
- 4 Company in violation of contractual agreements
- 5 Imposition of fines and penalties or legal costs
- 6 Interruption of critical supplies
- 7 Interruption of product distribution

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

Issues to consider for **internal resources** include, but are not limited to:

- 1 Types of supplies on hand
- 2 Volume of supplies on hand
- 3 Staff availability
- 4 Coordination with MOB's

Issues to consider for **external resources** include, but are not limited to:

- 1 Types of agreements with community agencies
- 2 Coordination with local and state agencies
- 3 Coordination with proximal health care facilities
- 4 Coordination with treatment specific facilities

Complete all worksheets including Natural, Technological, Human and Hazmat. The summary section will automatically provide your specific and overall relative threat.

**HAZARD AND VULNERABILITY ASSESSMENT TOOL  
NATURALLY OCCURRING EVENTS**

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	ion, Inc. COP43	0 - 100%
Hurricane	2	2	2	2	1	1	2	37%
Tornado	2	2	2	2	2	2	3	48%
Severe Thunderstorm	2	2	2	2	2	2	3	48%
Snow Fall	1	1	1	1	3	3	3	22%
Blizzard	0	0	0	0	0	0	0	0%
Ice Storm	1	1	1	1	3	3	3	22%
Earthquake	1	1	1	1	3	3	3	22%
Tidal Wave	1	1	1	1	3	3	3	22%
Temperature Extremes	2	2	2	2	3	3	3	56%
Drought	2	2	2	2	3	3	3	56%
Flood, External	3	3	3	3	2	2	3	89%
Wild Fire	3	3	3	3	1	1	2	72%
Landslide	2	2	2	2	3	3	3	56%
Dam Inundation	1	1	1	1	3	3	3	22%
Volcano	0	0	0	0	0	0	0	0%
Epidemic	2	2	2	2	2	2	2	44%
<b>AVERAGE SCORE</b>	<b>1.56</b>	<b>1.56</b>	<b>1.56</b>	<b>1.56</b>	<b>2.13</b>	<b>2.13</b>	<b>2.44</b>	<b>33%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>
<b>0.33                  0.52                  0.63</b>

**HAZARD AND VULNERABILITY ASSESSMENT TOOL  
TECHNOLOGIC EVENTS**

EVENT	PROBABILITY <i>Likelihood this will occur</i>	SEVERITY = (MAGNITUDE - MITIGATION)						RISK <i>Relative threat*</i>
		HUMAN IMPACT <i>Possibility of death or injury</i>	PROPERTY IMPACT <i>Physical losses and damages</i>	BUSINESS IMPACT <i>Interruption of services</i>	PREPARED-NESS <i>Preplanning</i>	INTERNAL RESPONSE <i>Time, effectiveness, resources</i>	EXTERNAL RESPONSE <i>Community/ Mutual Aid staff and supplies</i>	
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Electrical Failure	2	0	0	1	0	3	2	22%
Generator Failure	1	0	1	1	0	3	0	9%
Transportation Failure	1	0	0	0	0	3	2	9%
Fuel Shortage	1	0	1	1	0	3	2	13%
Natural Gas Failure	1	0	1	1	0	3	2	13%
Water Failure	2	0	1	1	0	3	2	26%
Sewer Failure	1	0	1	3	0	3	2	17%
Steam Failure	0	0	0	0	0	3	2	0%
Fire Alarm Failure	1	0	1	1	0	3	2	13%
Communications Failure	2	0	3	3	0	3	2	41%
Medical Gas Failure	0	0	0	0	0	3	0	0%
Medical Vacuum Failure	0	0	0	0	0	3	0	0%
HVAC Failure	2	0	2	2	0	3	0	26%
Information Systems Failure	3	0	3	3	0	3	2	61%
Fire, Internal	2	1	3	3	0	3	2	44%
Flood, Internal	1	0	1	2	0	3	2	15%
Hazmat Exposure, Internal	2	1	1	2	0	3	2	33%
Supply Shortage	2	0	1	2	0	3	2	30%
Structural Damage	1	1	1	1	0	3	0	11%
<b>AVERAGE SCORE</b>	<b>1.32</b>	<b>0.16</b>	<b>1.11</b>	<b>1.42</b>	<b>0.00</b>	<b>3.00</b>	<b>1.47</b>	<b>17%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>
<b>0.17      0.44      0.40</b>

**HAZARD AND VULNERABILITY ASSESSMENT TOOL  
HUMAN RELATED EVENTS**

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK	
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE		
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resouces</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>	
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Incident (trauma)	2	2	0	1	2	2	3	37%	
Mass Casualty Incident (medical/infectious)	2	2	0	2	2	2	3	41%	
Terrorism, Biological	1	1	0	2	3	3	3	22%	
VIP Situation	1	1	0	1	3	3	0	15%	
Infant Abduction	3	3	0	0	2	2	0	39%	
Hostage Situation	1	2	0	2	3	3	0	19%	
Civil Disturbance	2	1	1	2	2	2	0	30%	
Labor Action	1	1	0	1	3	3	0	15%	
Forensic Admission	1	1	0	1	3	3	0	15%	
Bomb Threat	2	3	3	3	2	2	0	48%	
<b>AVERAGE</b>	<b>1.60</b>	<b>1.70</b>	<b>0.40</b>	<b>1.50</b>	<b>2.50</b>	<b>2.50</b>	<b>0.90</b>	<b>28%</b>	

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>
<b>0.28          0.53          0.53</b>

**HAZARD AND VULNERABILITY ASSESSMENT TOOL  
EVENTS INVOLVING HAZARDOUS MATERIALS**

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Hazmat Incident ( <i>From historic events at your MC with &gt;= 5 victims</i> )	2	3	0	0	2	2	3	37%
Small Casualty Hazmat Incident ( <i>From historic events at your MC with &lt; 5 victims</i> )	3	3	0	0	2	2	3	56%
Chemical Exposure, External	2	3	0	0	3	2	3	41%
Small-Medium Sized Internal Spill	2	3	1	1	0	2	3	37%
Large Internal Spill	2	3		1	0	2	3	33%
Terrorism, Chemical	1	3	1	1	3	2	3	24%
Radiologic Exposure, Internal	1	3	0	1	3	2	3	22%
Radiologic Exposure, External	1	3	0	1	3	2	3	22%
Terrorism, Radiologic	1	3	0	1	3	2	3	22%
<b>AVERAGE</b>	<b>1.67</b>	<b>3.00</b>	<b>0.22</b>	<b>0.67</b>	<b>2.11</b>	<b>2.00</b>	<b>3.00</b>	<b>34%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>
<b>0.34                  0.56                  0.61</b>

**SUMMARY OF HAZARDS ANALYSIS**

	Natural	Technological	Human	Hazmat	Total for Facility
Probability	0.52	0.44	0.53	0.56	0.50
Severity	0.63	0.40	0.53	0.61	0.53
<b>Hazard Specific Relative Risk:</b>	<b>0.33</b>	<b>0.17</b>	<b>0.28</b>	<b>0.34</b>	<b>0.26</b>

