Nursing Home and Assisted Living Residence
Hazard and Vulnerability Analysis

Long Term Care communities are required to conduct and annually review their Hazard Vulnerability Analysis (HVA). The HVA provides a systematic approach to recognizing hazards that may affect demand for nursing home or assisted living residences or its ability to provide those services. The risks associated with each hazard are analyzed to prioritize planning, mitigation, response and recovery activities. The HVA serves as a needs assessment for the Emergency Management program. This process should involve your safety or emergency management committee AND community partners (area emergency managers, fire and police departments and emergency management services and be communicated to community emergency response agencies.

This Hazard Vulnerability Analysis Tool is based on the Kaiser Permanente model and has been re-designed specifically for nursing homes and assisted living residences. Copies of the template are included for review, but the template is a downloadable Excel Spreadsheet in which you record your information and it automatically calculates your HVA scores.

This tool is an adjunct component to your overall emergency operations plan (EOP) and is not a substitute for a comprehensive emergency preparedness program; individuals or organizations using this tool are solely responsible for any hazard assessment and compliance with applicable laws and regulations.

INSTRUCTIONS:

The purpose of this easy to use HVA Tool is to evaluate potential for event and response among the following categories using the hazard specific scale. You must address ALL potential threats in your All Hazards Emergency Area. For further information on you All Hazards Region go to Section [ ].

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 Families 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 MOU partners

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	
	Likelihood this will occur	*Possibility of death or injury*	*Physical losses and damages*	*Interuption of services*	*Preplanning*	*Time, effectivness, resouces*	*Community/ Mutual Aid staff and supplies*	*Relative threat**
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%*
Tornado								**0%**
Severe Thunderstorm								**0%**
Snow Fall								**0%**
Blizzard								**0%**
Ice Storm								**0%**
Earthquake								**0%**
Heat/Humidity								**0%**
Drought								**0%**
Flood, External								**0%**
Wild Fire								**0%**
Landslide								**0%**
Dam Inundation								**0%**
Subsidence								**0%**
Epidemic								
AVERAGE SCORE								**0%**
								0%
	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0%**

**Threat increases with percentage.*

RISK = PROBABILITY * SEVERITY
0.00 0.00 0.00

HAZARD AND VULNERABILITY ASSESSMENT TOOL
TECHNOLOGIC EVENTS

EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	Likelihood this will occur	*Possibility of death or injury*	*Physical losses and damages*	*Interuption of services*	*Preplanning*	*Time, effectivness, resouces*	*Community/ Mutual Aid staff and supplies*	*Relative threat**
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								0%
Generator Failure								0%
Transportation Failure								0%
Fuel Shortage								0%
Communications Failure								0%
Information Systems Failure								0%
Fire, Internal								0%
Flood, Internal								0%
Hazmat Exposure, Internal								0%
Supply Shortage								0%
Structural Damage								0%
AVERAGE SCORE								0%
								0%
								0%
								0%
								0%
								0%
								0%
								0%
	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0%**

**Threat increases with percentage.*

RISK = PROBABILITY * SEVERITY
0.00 0.00 0.00

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	
	Likelihood this will occur	*Possibility of death or injury*	*Physical losses and damages*	*Interuption of services*	*Preplanning*	*Time, effectivness, resouces*	*Community/ Mutual Aid staff and supplies*	*Relative threat**
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 Incident (trauma)								**0%**
Mass Casualty Incident (medical/infectious)								**0%**
Terrorism, Biological								**0%**
VIP Situation								**0%**
Hostage Situation								**0%**
Civil Disturbance								**0%**
Missing Resident								**0%**
Bomb Threat								
AVERAGE								**0%**
								0%
								0%
	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0%**

**Threat increases with percentage.*

RISK = PROBABILITY * SEVERITY		
0.00	**0.00**	**0.00**

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	
	Likelihood this will occur	*Possibility of death or injury*	*Physical losses and damages*	*Interuption of services*	*Preplanning*	*Time, effectivness, resouces*	*Community/ Mutual Aid staff and supplies*	*Relative threat**
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 *(From historic events at your LTC with >= 5 victims)*								**0%**
Small Casualty Hazmat Incident *(From historic events at your LTC with < 5 victims)*								**0%**
Chemical Exposure								**0%**
Terrorism, Chemical								**0%**
Radiologic Exposure, External								**0%**
Terrorism, Radiologic								**0%**
AVERAGE								**0%**
								0%
								0%
								0%
	0.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0%**

**Threat increases with percentage.*

RISK = PROBABILITY * SEVERITY

0.00 0.00 0.00

SUMMARY OF LONG TERM CARE COMMUNITY HAZARDS ANALYSIS

	Natural	Technological	Human	Hazmat	Total for Facility
Probability	0.00	0.00	0.00	0.00	0.00
Severity	0.00	0.00	0.00	0.00	0.00
Hazard Specific Relative Risk:	0.00	0.00	0.00	0.00	0.00