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Emergency Operations
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SUBJECT: Hazard Vulnerability Analysis

The population of this area and region are exposed to many hazards, all of which have the potential to disrupt the community, cause damage, and cause casualties. A major man-made, biological, technological, or natural disaster incident may cause an immediate demand for health care services in excess of normal operating demands for this facility. A disaster incident may threaten, actually destroy or seriously damage the hospital. This may necessitate relocation and/or evacuation of patients. A disaster incident can give rise to secondary issues such as infection and disease spread. A major man-made, biological, technological, or natural disaster incident may cause significant emotional distress for both patients and staff during the incident as well as its aftermath. There are a limited number of beds and resources in this facility for treatment of significant burns, radiological contamination, extensive trauma, neurological insult/injury, and/or isolation.

Possible Natural hazards include but are not limited to:

- Floods
- Tornadoes
- Severe Storms
- Severe Winter Storms
- Earthquakes
- Forest and/or brush fires
- Drought

There is also the threat of war and/or terrorist activities using weapons of mass destruction involving, but not limited to:

- Nuclear
- Biological
- Incendiary
- Chemical or conventional weapons
- Explosive

Other disaster situations could develop from:

- Hazardous material accidents (fixed or non-fixed)
- Major transportation accidents
- Civil disorder
- Pandemic Influenza or other such illnesses

With this information in mind, Fleming County Hospital will utilize this *Hazard Vulnerability Analysis* as a basis for Mitigation and Preparedness of such disasters. The following rubric will be utilized to prioritize and “score” the potential hazards for the area served by Fleming County Hospital.

Occurrence Probability (OP)

Score		
0	None	An event is not likely to occur
1	Rare	An event occurs less often than once every 30 years
2	Occasional	An event occurs less than once every 5 years but more than every 30 years
3	Frequent	An event occurs more often than every 3 years

Human Impact (HI)

Score		
0	No impact	Event has little to no impact on the hospital’s ability to maintain normal operations
1	Limited impact	An event that generally involves a serious threat to a moderate number of people in the community. There may be a few deaths and injuries and only minor population dislocation from such an occurrence.
2	Substantial impact	An event that affects a significant number of people, and may involved some loss of life, injuries and possible sizable dislocation of community.
3	Major impact	An event that affects a widespread area of the community or concentrated areas which severe affects.

Operational Impact (OI)

Score		
0	No impact	Event will have little or no impact on hospital operations
1	Limited impact	The event may cause light damage to area and hospital campus. Local resources would be adequate to repair or replace damaged property.
2	Substantial impact	The event will cause moderate damage over a wide spread area. Damage to the hospital campus may exceed local resources to repair or replace.
3	Major impact	The event will cause wide spread heavy damage to area and the hospital facility. Local resources are likely to be exceeded.

Hazard Identification and Analysis Chart

Hazard	Occurrence Probability (OP)	Human Impact (HI)	Operational Impact (OI)	Total Score
Tornado	2	3	3	8
Severe Thunderstorm	3	2	2	7
Severe Winter Storm	3	3	2	8
Earthquake	2	2	3	7
Hurricane	0	3	3	6
Flooding	3	2	0	5
Pandemic	0	3	3	6
HazMat Spill (internal)	2	2	2	6
HazMat Spill (external)	2	2	2	6
Electrical Failure	3	2	3	8
Medical Gas Failure	1	1	2	4
Bomb Threat	0	1	3	4
Biological Terrorism	0	3	3	6
Nuclear Terrorism	0	2	3	6
Transportation Accident	3	1	3	7
Drought	2	2	0	4
Civil Disorder	0	2	3	5
Chemical Events	2	2	3	7

If a risk is scored:

9: The hospital will have written plans in case of the event, drills will be conducted, critiques written, and plans updated.

6-8: The hospital will have written plans and when activated, critiques will be written and plans updated.

1-5: The hospital may have written plans.

Critiques of all actual events and drills should include the following items: communications, resources and assets, safety and security, staff roles and responsibilities, utilities and patient management.