

LOUISIANA STATE UNIVERSITY HEALTH SCIENCES CENTER  
 SHREVEPORT

**INTERIM LIFE SAFETY MEASURES (ILSM)**

**Purpose:** To ensure a fire-safe environment and compliance with NFPA 101.

**Policy:** When any part of the Life Safety Systems is affected by construction, renovations, or repairs the hospital will institute and document interim life safety measures to temporarily compensate for the hazard posed by life safety deficiencies. The interim life safety measures are continued as long as the hazard exists so that the level of life safety is not diminished in any occupied area and a safe environment and grounds are maintained throughout the project area and adjacent areas.

- I. **Following are the ILSM that will be implemented when required by this policy for any Life Safety Deficiencies. (Reference ILSM Criteria Chart)**

**ILSM Criteria Chart**

LIFE SAFETY CODE DEFICIENCIES OR CONSTRUCTION ACTIVITIES	ILSM #1	ILSM #2	ILSM #3	ILSM #4	ILSM #5	ILSM #6	ILSM #7	ILSM #8	ILSM #9	ILSM #10	ILSM #11
General construction is taking place.						X	X		X		X
Exits and exit access are not free and unobstructed.	X							X		X	X
Access for emergency response forces are not free and unobstructed. This includes both.		X									
Fire alarm, detection, or suppression systems are disconnected or not operational.			X		X	X		X	X	X	X
Temporary construction partitions are in place.	X	X		X						X	X
Fire walls, partitions, or smoke partitions are breached.				X						X	X
Fire door/window assemblies are not in place				X						X	X
Welding, cutting, or brazing is required.			X		X		X				

- ILSM #1. Provide alternate exits. Staff will receive additional training by the Safety office when alternative exits are designated. Building or areas under construction must maintain escape routes for construction workers at all times, with the means of exiting construction areas, inspected daily.
- ILSM #2. Ensure free and unobstructed access to fire, police, and other emergency services. Fire hydrants, fire lanes, Siamese connections, etc. must all be readily available for immediate Fire Dept. usage.
- ILSM #3. A temporary but equivalent system must be provided when any fire system is impaired. Environmental Health & Safety (EH&S) must be consulted on appropriate temporary protection. The temporary system shall be tested at least monthly.
- NOTE: A fire watch will be provided whenever a fire alarm or sprinkler system is out of service for more than 4 hours in a 24-hour period. Reference Fire Watch Policy 1.7.)
- ILSM #4. Temporary construction partitions must be smoke tight and built of noncombustible or limited combustible materials that will not contribute to the development or spread of fire. Any temporary partition that is replacing a fire wall/partition will maintain the same rating and integrity as the original assembly.
- ILSM #5. Contractor or EH&S will provide additional fire-fighting equipment and train staff in its use.
- ILSM #6. Prohibit smoking throughout the hospital's buildings and in and near construction areas in accordance with the Hospital's Smoking Policy 4.4 for maintaining a smoke-free environment.
- ILSM #7. Storage, housekeeping, and debris-removal practices shall be developed and enforced, reducing the building's flammable and combustible fire load to the lowest feasible level.
- ILSM #8. Minimum of two fire drills per shift per quarter shall be conducted, so as to familiarize staff with alternate exits and/or equivalent fire alarm. EH&S will conduct the drills and maintain documentation.
- ILSM #9. Increase hazard surveillance of buildings, grounds, and equipment, with special attention to excavations, construction areas, construction storage, and field offices.
- ILSM #10. Staff working in the affected or adjacent area will be trained by the Safety Office when the structural and compartmentalization features of fire safety are compromised.

ILSM #11. EH&S will conduct facility-wide safety education as part of Right-to-Know training programs to ensure awareness of Life Safety code deficiencies, construction hazards and specific ILSMs.

NOTE: The Safety Office will evaluate and make the final determination on ILSMs on a case-by-case basis. For further guidance, reference NFPA 241.

## **II. Project Planning**

- A. The Physical Plant Project Coordinator and/or contractor will meet with the Safety Office before and during the project to determine what ILSM actions will be implemented. (Reference ILSM Chart).
- B. Physical Plant will use the ILSM Criteria Chart on every construction project both outside contractor or in-house personnel. Physical Plant shall notify the Safety Office on starting date of project and projected completion date.
- C. The Project Coordinator will be responsible for daily inspections and documentation of job site ILSM compliance. Non-compliant items will be reported to the Safety Office.
- D. The Safety Office will be responsible for weekly inspection of ILSM for job site and document on inspection form.
- E. ILSM notifications will be posted on job site and also posted in adjacent areas affected.
- F. All site surveillance will be maintained until Life Safety deficiencies are returned to normal.

## **III. Contractor**

- A. During construction, renovation, etc., ILSM shall be imposed on the contractor and so stated in his contract.
  - 1. Contractor will provide and maintain fire extinguishers in work area. The number of extinguishers will be based on NFPA requirements. The contractor is responsible for seeing that fire extinguishers are operative and readily available to their employees to fight a fire if one should occur.
- B. If a fire should occur in the construction area, the contractor is responsible for seeing that their employees are aware of and follow the outlined fire procedures;
  - 1. Get anyone in the fire area to a place of safety.

2. Confine the fire by shutting all doors in the construction area.
  3. Go to nearest pull station and sound the alarm.
  4. Go to nearest phone and notify the University Police at 56165 of the fire and give the location.
  5. Obtain proper fire extinguisher and, if possible, return to the fire area and extinguish the fire.
- C. The contractor is responsible for seeing that employees know the hospital is smoke-free and smoking is only allowed in designated areas outside.
- D. The contractor is responsible for implementing and enforcing storage, housekeeping, and debris removal practices that reduce the flammable and combustible load of the building to the lowest level necessary for daily operations.
1. Flammable and oxidizing chemicals on the job site shall be limited to one-day supply.
  2. Flammable compressed gas cylinders shall be limited to a one-day supply. Compressed gas cylinders shall be in a secured stand or in an approved cart.
- E. The contractor will see that buildings/areas under construction maintain escape routes for workers at all times.
- F. Temporary construction partitions/barriers shall meet NFPA 101 and match the integrity/rating of the building structural fire system.
- G. The contractor will follow the established policy for welding, cutting, and brazing fire, provided by Physical Plant along with a Hot Work Permit.
- H. The contractor is responsible to provide the Safety Office with copies of MSDS on all hazardous materials used during the course of the project.

#### **IV. Institution**

- A. Means of egress in construction areas will be inspected daily by Physical Plant project coordinator. On weekends and at night, University Police will make an inspection on each shift of the construction area.
- B. Any utility outage required for project will be submitted by Physical Plant at least seven (7) days prior to outage and must be approved by both Hospital Administration and the Safety Office.
- C. If fire alarm, detection, and suppression systems are impaired during construction or due to shutdown/malfunction for more than 4 hours in a 24 hour period; the following will be observed:

1. Temporary, but equivalent, system must be provided when fire systems are impaired (example: documented patrols).
  2. The State Fire Marshal and Shreveport Fire Department will be notified when equivalent measures are implemented.
- D. Hospital personnel will receive training from the Safety Office if alternative exits must be designated during construction/renovation. This will be managed by letters identifying areas, or in-service training along with a floor plan with new egress route(s) identified.
- E. At all times during construction/renovation, a free and unobstructed route must be maintained to the Emergency Room.
- F. A minimum of two (2) documented fire drills per shift per quarter (six per quarter) shall be conducted, when building exits are compromised or fire alarm or suppression systems are impaired.
- G. Where fire zones are altered, staff will be trained by the Safety Office in regards to new area configuration.
- H. Prior to construction/renovation work, etc., an ILSM plan for each new project will be generated by the Safety Office detailing steps that will be taken to ensure a safe environment.
- I. When ILSM are required, daily documented inspection of the work area and adjacent areas will be made by the Physical Plant project coordinator/designee. Inspections will include:
1. Ensure exits and evacuation routes both in construction and adjacent areas are free and clear.
  2. Storage of combustible materials is kept to a minimum. Trash and debris is removed on a daily basis.
  3. Fire extinguishers are available in work area.
  4. Visible inspection of temporary partitions to ensure they are smoke tight and of non-combustible materials.
  5. The Safety Office will be notified immediately by the Physical Plant coordinator if the ILSM plan is not adhered to.
- J. The Safety Officer has the authority to shut down any project if he/she feels ILSM are not followed by the contractor. When the contractor has satisfied the Safety Officer that compliance with ILSM have been met, the contractor may resume work after the Safety Officer releases them.

## ILSM CONSTRUCTION SITE INSPECTION FORM

**DATE:** \_\_\_\_\_

**INSPECTOR:** \_\_\_\_\_

**PROJECT AREA:** \_\_\_\_\_

DESCRIPTION	YES	NO	N/A	COMMENTS
Egress corridors and exits clear, contractors egress, occupant egress temporary, egress marked				
Exterior fire lanes clear, fire hydrants Siamese connections				
Adequate barriers in place, fire barriers, smoke barriers, flame spread rating				
Barrier doors left shut				
Welding permits in place, spot check posted precautions				
Adequate fire extinguishers in place				
General housekeeping practices adequate, combustible storage flammable liquid use/storage flammable				
Fire alarm system operational and unobstructed, (temporary coverage in place)				
Sprinkler system operation, (system out only during periods of sprinkler modification)				
Smoking strictly prohibited				
Electrical appliances and equipment usage not causing hazards				
Temporary heating appliances being used correctly				
Other hazards noted:				

