



Title: **Interim Life Safety Measures**

EH&S – 5-11	Revision: 8/1/08	Date 11/03	Pages 10
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**PURPOSE:** To assure the safety of all building occupants during periods of construction or when significant deficiencies compromise the level of life safety protection provided by the building.

**SCOPE:** Hospital wide.

**PROCEDURES:**

- A. Whenever a construction or renovation project receives approval and is presented to Pre-Construction Risk Assessment (PCRA) committee, a risk analysis of the work being accomplished will be done to determine what levels of Interim Life Safety Measures (ILSM), if any, will occur.
- B. The Fire Safety Manager or designee serves as the authority for interpreting the need for ILSMs. This individual will determine what ILSMs are necessary to temporarily compensate for any hazards posed to buildings and people during construction and renovation activities.
- C. The Fire Safety Manager or designee will use the ILSM assessment tool and matrix (Appendix A) to evaluate the need for, appropriateness of, and adequacy of ILSMs for each deficiency or construction activity. The evaluation will include:
  - 1. Construction design and work practices and whether they maintain unobstructed egress,
  - 2. Temporary partitions for ICRA, as well as the level of the hazard of the construction and need to separate from occupied spaces,
  - 3. Modifications to fire alarm, detection, and suppression systems and whether these systems will be impaired,
  - 4. Modifications to fire and smoke barriers, and
  - 5. Impacts on emergency services access.
- D. A written ILSM (Appendix B) will be issued for each project, with an analysis of potential hazards as well as mitigation procedures and other requirements determined to be put in place. A copy of the ILSM will be maintained with the Facilities Project Management Office (PMO).
- E. Any changes to the plan will be communicated immediately to the Fire Safety office, and a new risk analysis and ILSM plan issued.

- F. Statement of Conditions fire safety deficiencies will be evaluated for the need for any ILSM utilizing assessment matrix, with documentation being made on the ILSM log (Appendix C). The tool is used as guidance and is not a comprehensive list of all code deficiencies that could be encountered.
- G. If there are major deficiencies or unique ILSMs as determined by the Fire Safety Manager or designee, an "ILSM ALERT" will be filled out and issued to appropriate departments and posted in the area (appendix F). Diagrams will be attached as appropriate.

**INQUIRIES/REQUESTS:**

Environmental Health and Safety  
L1-059 HSC  
Zip 8017  
Main Office: 444-6783  
FAX: 444-6845

**RELATED FORMS:**

ILSM Assessment Tool (Appendix A)  
Notice of ILSM for Construction Activities  
(Appendix B)  
SOC PFI ILSMs (Appendix C)  
ILSM Construction Site Inspection (Appendix D)  
ILSM Fire Drill Log (Appendix E)

**RELATED DOCUMENTS:**

Hospital Fire Response Plan, Policy 2-1  
Fire Watch, Policy 5-8  
Fire Protection System Impairments, Policy 5-5  
Life Safety Management Plan

# ILSM ASSESSMENT TOOL

Project: Project #	ILSM #1	ILSM#2	ILSM #3	ILSM #4	ILSM #5	ILSM #6	ILSM #7	ILSM #8	ILSM #9	ILSM #10	ILSM #11
<b>CONSTRUCTION ACTIVITIES</b>											
Major construction is taking place.											
Exits and exit access are not free and unobstructed.											
Access for emergency response forces is not free and unobstructed. This includes both interior and exterior access.											
Fire alarm, detection, or suppression systems are disconnected or not operational.											
Temporary construction partitions are in place.											
Fire and/or smoke barriers are breached or modified.											
Fire door/window assemblies are not in place.											
Adding addition to existing structure											
Welding, cutting, or brazing is required.											
<b>LIFE SAFETY CODE DEFICIENCIES</b>											
Hazardous areas are not properly protected											
Significant compromise to integrity of compartmentation features (major breaches to any horizontal/vertical barrier)											
Improper exit discharge											
Non compliant shaft and other vertical opening enclosure											
Non compliant fire door											
Non compliant smoke/fire barrier											
Excessive exit/exit access travel dist.											
Nonconforming bldg. construction type											
Lack of 2 remote exits											
Fire protection system inoperative/malfunction											

**RISK SCORE: H=High, L=Low, NA=Not Applicable**

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ILSM #1. Provide alternate exits. Staff gets additional training when alternative exits are designated. If exiting is obstructed or changed, signage will be posted redirecting people to active exits. Buildings or areas under construction must maintain escape routes for construction workers at all times. Construction supervisor will inspect 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. Fire protection systems will be maintained in service wherever practical. Construction areas attached to the occupied facility, that do not yet have their fire protection systems, will have a minimum of a 1 hour fire barrier, properly sealed. A temporary but equivalent system must be provided when any fire system is impaired. 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.

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. If the level of construction is deemed hazardous and/or the fire suppression system will not be installed for a time period, a fire barrier of at least 1 hour will be installed between construction and occupied areas.

ILSM #5. Additional firefighting equipment will be maintained in an accessible and inoperable manner in close proximity to combustible materials or sources of ignition

ILSM #6. Prohibit smoking throughout the hospital's buildings and in and near construction areas.

ILSM #7. Storage, housekeeping, and debris-removal practices shall be developed and enforced, reducing the building's combustible fire load to the lowest feasible level. Combustible construction debris will be removed from site in a timely manner. All flammable liquids and gases will be maintained secured in a compliant liquid/gas storage area

ILSM #8. Minimum of two fire drills per shift per quarter shall be conducted so as to familiarize staff with alternate exits, exiting into different smoke compartments, and/or equivalent fire alarm. Environmental Health and Safety 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 in affected area will be trained when the structural and compartmentalization features of fire safety or egress are compromised

ILSM #11. Conduct facility-wide safety education programs to ensure awareness of Life Safety Code deficiencies, construction hazards and specific ILSMs.

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

<b>NOTICE OF INTERIM LIFE SAFETY MEASURES FOR CONSTRUCTION ACTIVITIES</b>
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Location and work: \_\_\_\_\_

Date/time start: \_\_\_\_\_

Work Order: \_\_\_\_\_

Estimated time to completion: \_\_\_\_\_

A. Construction activity (check all that apply):

- 1.  Fire alarm modified or taken out of service.
- 2.  Sprinkler modified or taken out of service.
- 3.  Exits or exit access is blocked.
- 4.  Access for emergency response forces is blocked.
- 5.  ICRA construction partitions are required.
- 6.  Vertical and/or horizontal fire barriers are breached.
- 7.  Fire doors or windows are missing.
- 8.  Demolition activities
- 9.  Hot Work
- 10.  Other \_\_\_\_\_

B. Utilizing matrix in policy, which ILSM is being implemented and how? Be descriptive on procedures put in place and departments to be notified. Attach drawings as necessary.

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Name/title: \_\_\_\_\_

Dept: \_\_\_\_\_



**FIRE & LIFE SAFETY ILSM  
CONSTRUCTION SITE INSPECTION**

Appendix D

**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 placed.				
General housekeeping practices adequate. - combustible storage - flammable liquid use/storage - flammable gas use/storage				
Fire alarm system operational and unobstructed. (temporary coverage in place)				
Sprinkler system operational. (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:				

Appendix E

**ILSM FIRE DRILL LOG**

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ILSM Deficiency: \_\_\_\_\_

Quarter \_\_\_\_\_

SHIFT	DATE	LOCATION	COMMENTS
Day			
Evening			
Mid			
Day			
Evening			
Mid			

Quarter: \_\_\_\_\_

SHIFT	DATE	LOCATION	COMMENTS
Day			
Evening			
Mid			
Day			
Evening			
Mid			

Quarter: \_\_\_\_\_

SHIFT	DATE	LOCATION	COMMENTS
Day			
Evening			
Mid			
Day			
Evening			
Mid			

Quarter: \_\_\_\_\_

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SHIFT	DATE	LOCATION	COMMENTS
Day			
Evening			
Mid			
Day			
Evening			
Mid			

Appendix F

# I L S M A L E R T

**SITUATION:**            Effective on: \_\_\_\_\_, Interim Life Safety Measures are in effect for

**BACKGROUND:**

**ASSESSMENT:**

**REQUIREMENTS:**

**Any questions, call the Fire Safety Office at 4-9777/6752**