POLICY INTERIM LIFE SAFETY MEASURES

DATED: February 2009, rev DEC2014, rev FEB2021, rev DEC2023

TOPIC: LIFE SAFETY MANAGEMENT

SUBJECT: INTERIM LIFE SAFETY

REFERENCE: LS.01.02.01: The hospital protects occupants during periods when the Life Safety

Code is not met or periods of construction.

The hospital has a written interim life safety measure (ILSM) policy that covers situations when Life Safety Code deficiencies cannot be immediately corrected or during periods of construction. The policy includes criteria for evaluating when and to what extent the hospital implements LS.01.02.01, EP's 2-15 to compensate for increased fire safety risk. The criteria include the assessment process to determine when interim life safety measures are implemented.

POLICY:

Interim Life Safety Measures

When requirements for fire protection or environment and grounds safety are affected by construction, the hospital institutes and documents interim life safety measures to temporarily compensate for the hazard posed by existing life safety deficiencies based on the criteria specified in the interim life safety policy.

Interim Life Safety Measures are selected from the following list (referenced by EP) based upon professional judgment, and are instituted during major construction, renovation, or improvement projects. Parties responsible for compliance are identified parenthetically:

- 1. (EP 2) A fire watch is initiated, and emergency forces are notified when a fire system is out of service for more than 4 hours out of 24 hours, or a sprinkler system is out of service for more than 10 hours out of 24-hour period in an occupied building. Notification and fire watch times are documented. (*Construction Manager/Fire Protection Inspector*)
- 2. (EP 3) Free and unobstructed exits are ensured. When alternative exits must be designated, affected personnel receive notification. Escape routes for construction workers are maintained at all times. (*Construction Manager/Fire Protection Inspector*)
- 3. (EP 4) Exits in affected areas are inspected daily. (*Construction Manager/Fire Protection Inspector*)
- 4. (EP 5) Fire alarm, detection, and suppression systems are maintained in good working order, and a temporary but equivalent system is provided when any fire system is impaired. Temporary systems are inspected and tested monthly. (Construction Manager/Fire Protection Inspector)
- 5. (EP 6) Additional fire-fighting equipment is provided (Construction Manager/Fire Protection Inspector))
- 6. (EP 7) Temporary construction partitions are smoke tight and built of noncombustible or limited combustible materials that will not contribute to the development or spread of fire. (Construction Manager/Fire Protection Inspector)
- 7. (EP 8) Increased hazard surveillance of buildings, grounds, and equipment with special attention to excavations, construction areas/storage and field offices. (*Construction Manager/Fire Protection Inspector*)
- 8. (EP 9) Storage, housekeeping and debris removal practices are developed and enforced to reduce the building's flammable and combustible fire load to the lowest feasible level. (Construction Manager/Fire Protection Inspector)

- 9. (EP 10) Construction and other affected personnel are trained in the use of firefighting equipment. (*Construction Manager/Fire Protection Inspector*)
- 10. (EP 11) An additional fire drill per shift per quarter is conducted, for a total of two drills per shift per quarter for areas under and adjacent to construction. Drills are reported to the Safety Manager. (Construction Manager/Fire Protection Inspector)
- 11. (EP 12) Temporary systems are inspected and tested monthly. (*Construction Manager/Fire Protection Inspector*)
- 12. (EP 13) Organization-wide safety education programs are conducted to promote awareness of Life Safety Code deficiencies, construction hazards, and ILSM. (Safety Manager and Fire Protection Inspector)
- 13. (EP 14) Affected personnel are trained to compensate for impaired structural or compartmentalization features of fire safety. (*Construction Manager/Fire Protection Inspector*)
- 14. (EP 15) Provide documentation for other ILSM's not specifically addressed in EP 2-14 (Construction Manager/Fire Protection Inspector)

The decision to implement any or all of these measures depends on the scope of the project, the life safety systems that are disrupted, and the length of time the systems are disrupted. The Life Safety Code provides the basis for the decision. Additionally, a matrix has been designed to provide the criteria for implementing Interim Life Safety Measures and document any deficiencies along with the associated measures taken to address them. The following criteria are to be used to implement Interim Life Safety Measures and complete the ILSM Matrix:

- 1. Exit paths impaired or blocked Implement ILSM Matrix Column #2 & #3.
- 2. Emergency forces access is impaired Implement ILSM Matrix Column #2 and #3.
- 3. Fire detection and/or suppression systems impaired Implement ILSM Matrix Column #2 and/or Column #6.
- 4. The occupied area is not separated from the construction area by a smoke barrier Implement ILSM Matrix Column #7.
- 5. Additional fire hazards are present due to construction Implement ILSM Matrix Column #6, #8 and/or #9 as needed.
- 6. Smoke compartments are impaired and/or horizontal exits are changed for areas adjacent to construction Implement ILSM Matrix Column #11 and #14 as needed.
- 7. Staff, patients, and visitors are in close proximity to the construction area Implement ILSM Matrix Column #8.
- 8. Fire safety features, including compartmentalization, structural and alarms are impaired Implement ILSM Matrix Column #11, #13 and/or #14 as needed.

The Director of Health System Physical Plant is responsible for managing the Interim Life Safety Program for both Health System Physical Plant (HSPP) and Capital Construction & Renovation (CC&R) projects. The Director of HSPP maintains a current list of all areas where ILSM are in effect.

Inspections

The CC&R Construction Manager will be responsible for the interim life safety compliance for all applicable CC&R managed projects. Similarly, the HSPP Renovations Superintendent will be responsible for all HSPP managed projects. The Construction Manager or the Renovations Superintendent will fill out the interim life safety compliance matrix before the project commences and will ensure that the Fire Protection Inspector (FPI) certifies the interim life safety measures before construction starts.

The Construction Manager/Renovations Superintendent will be responsible for the day-to-day interim life safety measures and will annotate the interim life safety compliance matrix whenever the ILSM are changed. The FPI will certify the compliance monthly in conjunction with the Construction Manager or

Renovations Superintendent. Records will be maintained with the dates of all the inspections, issues identified, actions taken, and follow-up plans as necessary.

Construction identification signs must be placed so they are visible on the construction site and must include the project title and the project manager's name and telephone number.

Exception Reporting

Violation notices are submitted by the FPI to the Construction Manager for any life safety code violation identified during inspections or through other means; the construction manager then issues a notice of non-compliance to the contractor. A follow-up inspection is performed within the stated period, and resolution is documented. If the violation is not corrected within the specified time period, project continuation will be reconsidered. As a tool for monitoring program compliance and assuring quality improvement, exception reports will be submitted for all instances of non-compliance identified. This documentation will be submitted to HSPP, and quarterly summaries of identified problems/actions taken will be reported to the Fire Safety Work Group.

HSMM															-
ILSM Matrix Date:					I	Interim Li	ife Safety	Measures	(LS 01.02	.01, EP 2-1	15)				
Project:					arm				Α					afety	
Location (BLD#/Rm#):					but equi val ent fire alarm		mited)		EP 9-Control flammable/combustible loading, e.g. storage, housekceping and debrisemoral practices	nent				compartmental fire safety	
Project No/WO#:			_{ge}		valent		construction barriers, smoke-tight, made of non (or limited)		gand	10-Provide additional training of personnel on the use of firefighting equipmen			organizational training on life/fire safety building deficiencies, ards, and ILSMs	mental	
UVA PM:			e exits		t equi'		non je	ment	reepin	hting			deficio	mpartı	E E
UVA CM:		d fire	rnativ		ıry but		nade o	equip	ousek	irefig			lding o	or cor	entati
GC:	N/A	npaire	of alte		temporary		ght, n	ds and	age, h	se of f	arter		ty buil	ctural	docum
GC Supervisor:	Check if Applicable or N/A	forces/initiate fire watch for impaired fire sion systems	egress: Post signage to identify locations of alternative		ride te		noke-ti	EP 8-Increased hazard surveillance of buildings, grounds and equipment	g. stor	n the u	per shift per quarter	خ	re safe	for impaired structural	EP 15. Other ILSM not addressed in EP 2-14; provide documentation
User Contact:	plica	watch	fy loca		EP 5-Ensure operational life-safety systems: provide & detection system	nent	ers, sn	dings,	ing, e.	nnel or	shift,	systems monthly	life/fi	mpaire	14; pr
Submitted By:	ifAp	te fire	identi	≥	ystem	EP 6-Provi de additional fire fighting equipment	barri	fbuil	e load	persor	ill per	tems	ng on	e for i	EP 2-
·	heck	EP 2- Noti fy emergency forces/mitia alarm/detection/suppression systems	ge to	EP 4-Ensure egress: Inspect exits daily	fety s	nting	uction	o eou	ustibl	ng of	EP 11-Conduct one additional fire drill		traini fs	to compensate	sed in
Approved By:	C	orces,	signa	ect exi	ife-sa	irefigl	onstr	rveilla	,comb	traini	ional 1	EP 12-Inspect and test temporary	ional tra ILSMs	сотр	ddress
		ency 1 pressi	: Post	hsp	onal	onal f	₹.	ns par	nable	tional	additi	est ter	anizati s, and	nel to	not a
		emerg	egres	gress	perat/	additi	tempo	d haz	flami	e addi	et one	and t	uct orga hazards,	erson	ILSM
		oti fy o	nsure	sure	ion sy	ovide	EP 7-Provide temporary combustible materials	rease	EP 9-Control flar emoval practices	rovid	ondu	nspeci	EP 13-Conduct o	14-Train personnel ures	Other
		2- N urm/de	EP 3-Ensure	4-En	5-En	6-Pr	7-Pr mbust	%-In	P 9-C noval	10-P	11-C	12-I	P 13-0 nstruc	EP 14-T features	15.0
		EF als	ш	崮	H 3	Ē	EP	苗	田豆	H	苗	苗	田 9	EP	苗
Existing Code Deficiencies 1) Patient/fire/smoke door latching problem															
Lacking a code complying smoke barrier															
Fire exit stairs discharge improperly Excessive travel distance to an approved exit															-
5) Lack of two remote exits															
6) Nonconforming bldg. construction type															
7) Improperly protected vertical openings															
8) Penetrations in fire or smoke barriers															
Corridor walls do not extend to the structure Hazardous areas not properly protected															_
Construction Related Issues															_
Blocking off an approved exit Rerouting of traffic to emergency room	—														-
13) Renovation of an unoccupied/occupied area															
14) Replacing fire alarm system (out-of-service)								1							
15) Installing sprinkler system (out-of-service)															
16) Modifying smoke/fire barrier walls															
17) Adding an addition to an existing structure															
(18) Evaluate risk of accidental sprinkler activations: shut down								1							
system during construction															_
Maintenance and Testing				1						1					
19) Taking a fire alarm system out-of-service >4 hrs.															
 Taking a sprinkler system out-of-service >10 hrs. 															1
21) Disconnection of alarm devices															
**NOTES:															
	7														
Construction Risk Assessment Date:															
	Н														

Construction Risk Assessment					
Date:					
Submitted by: Approved by:	Cheek if Applicable or WA	No Risk-Not Applicable to this project	Low Risk - Low-Limited Risk of impact to this system	Medium Risk-Potential impacts likely; counter measures to be considered to lower risk and mitigate possible impact	High Risk-Assumes impact to affected system and carries significant risks as a result. Develop counter measures and formal plan with responsible parties to
Facilities Impact Risk Assessment					
a) Air Quality					
b) Infection Control	<u> </u>				
c) Utilities	<u> </u>				
e) Noise					
f) Emergency Procedures PM= Project Manager CM= Const Mar FI= HS					