

# Improve patient and worker safety during healthcare construction and renovation

Nothing is more important when building, renovating, and maintaining healthcare facilities, including hospitals than patient safety. Infections continue to be a serious risk in an environment filled with vulnerable patients.

Primavera Unifier for Healthcare includes pre-configured processes including: Infection Control Risk Assessment (ICRA) and Interim Life Safety Measures (ILSM), and is a no cost add-on to Primavera Unifier with the flexible Unifier Accelerator base configuration of over 65 pre-configured business processes and over 250 reports, dashboards, and reports. Manage your healthcare specific processes as part of a connected project, portfolio, and asset management solution.

## Infection Control Risk Assessment (ICRA)

Automate the process of identifying any dust, noise, or other factors, as soon as they breach defined tolerances, so that real-time alerts are sent and remedies are taken, helping to keep patients safer.

Monitor negative and positive air sensor technology to trigger alerts and prevent dust contamination.

Use the industry standard ICRA process to identify the level of infection risk associated with a construction project and define plans and procedures to mitigate those risks.

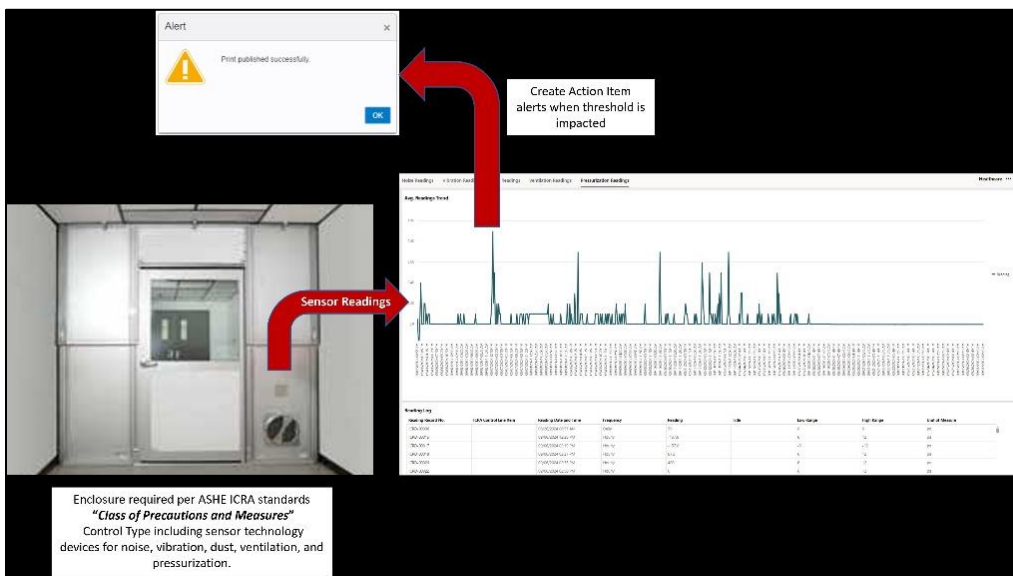


Figure 1: Visualization of Primavera Unifier providing alerts based on readings from sensors.

Primavera Unifier for Healthcare monitors and receives notifications of non-compliance with noise level requirements.

Primavera Unifier’s Infection Control Risk Permit process adheres to the American Society for Healthcare Engineering (ASHE) standards and the Infection Control Risk Permit (ICRA 2.0) tool kit.

Create New Infection Control Risk Permit

ICRA Permit Controls for this Work

Type of Activity

Type of Activity

Type C: Large-scale, longer duration

Select

- Type A: Non-invasive
- Type B: Small-scale, short duration
- Type C: Large-scale, longer duration
- Type D: Major demolition, construction

Construction Activity Type Description

Large-scale, longer duration activities that create a moderate amount of dust and debris. (Includes

- Removal of preexisting floor covering, walls, casework or other building components.
- New drywall placement.
- Renovation work in a single room.
- Nonexisting cable pathway or invasive electrical work above ceilings.
- The removal of drywall where a moderate amount of dust and debris is created.
- Dry sanding where a moderate amount of dust and debris is created.
- Work creating significant vibration and/or noise.
- Any activity that cannot be completed in a single work shift.

Patient Risk Area

Patient Risk Area

High: Patient care areas

Select

- Low: Non-patient care areas
- Medium: Patient care support areas
- High: Patient care areas
- Highest: Invasive, sterile or highly compromised care

Patient Risk Group Description

High Risk - Patient care areas such as:

- Patient care rooms and areas
- All acute care units
- Emergency department
- Employee health
- Pharmacy - general work zone
- Medication rooms and clean utility rooms
- Imaging suites: diagnostic imaging
- Laboratory

Class of Precautions

Class of Precautions

Class IV

ICRA - Class III

ICRA 2.0 Infection Control Risk Assessment and Permit

Approved

Project Start Date: Apr 1, 2024  
 Completion Date: Apr 30, 2024

Project Number - Name: Project 1 - PRJ001  
 Location of Work Activity: Location text field

Foreman/Supervisor: Mary Jones (555-555-5151)  
 Contractor Performing Work: 123 Go (555-555-2222)  
 Approving Authority: John Jones (555-555-1594)

Signature \_\_\_\_\_  
 John Jones \_\_\_\_\_  
 Name Date

Please note that the above signature is approval of the work activity as described and assessed documented here.  
**Should the scope of work change or the discovery of additional toxic or biological substances, STOP WORK and seek additional approval and guidance before proceeding.**

1. Type of Activity: Type B: Small-scale, short duration

Explaining the determination of the type of activity for this permit. **Rich Text.** Explaining the determination of the type of activity for this permit. **Rich Text.** Explaining the determination of the type of activity for this permit. **Rich Text.**

2. Patient Risk Area: High: Patient care areas

Explaining the determination of the patient risk area for this permit. **Rich Text.** Explaining the determination of the patient risk area for this permit. **Rich Text.** Explaining the determination of the patient risk area for this permit. **Rich Text.** Explaining the determination of the patient risk area for this permit. **Rich Text.**

Figure 3: ICRA 2.0 Infection Control Risk Assessment and Permit

Figure 2: Primavera Unifier Infection Control Risk Permit (ILSM) form

# Interim Life Safety Measures (ILSM)

Interim Life Safety Measures are health and safety actions that are implemented in healthcare facilities during construction, renovation, and maintenance to protect patients and workers. The Interim Life Safety Measures process within Primavera Unifier automates and documents compliance with required interim Life Safety Measures such as Fire Alarm or Sprinkler System requirements in accordance with National Fire Protection Agency (NFPA) and Joint Commission standards. Help ensure compliance and safety, while reducing risk and removing time consuming manual tracking.

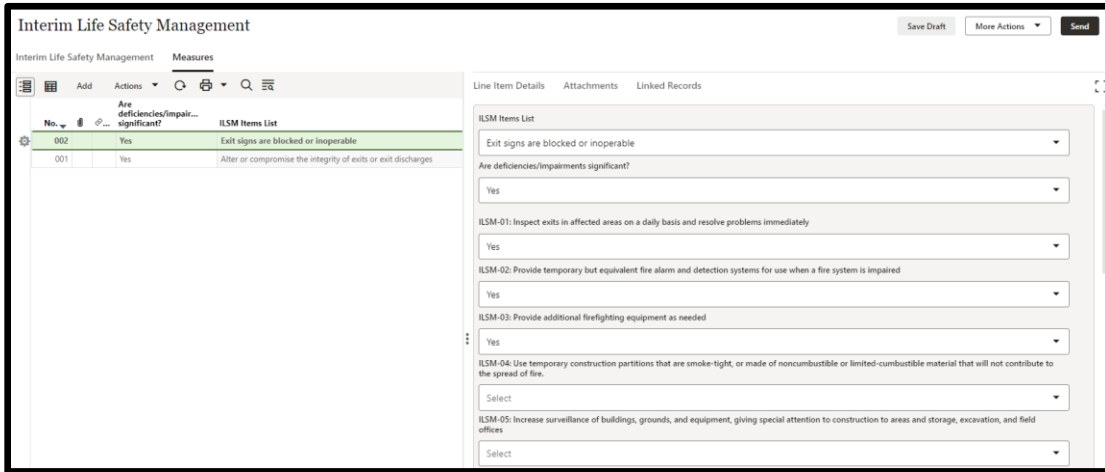


Figure 5: Primavera Unifier Interim Life Safety Management (ILSM) form

## ILSM - Room 2456 remodel

**Interim Life Safety Management**

<b>Project Start Date:</b> April 3, 2024	<b>Project Number - Name:</b> Project 1 - PRJ001
<b>Completion Date:</b> April 30, 2024	<b>ILSM Assessment By:</b> Assessor name
<b>Acknowledge Date:</b> April 19, 2024	<b>ILSM Firm Completing Work:</b> Assessing firm

**Foreman/Supervisor:** Mary Jones 555-555-5151  
**Contractor:** 123 Go 555-555-2222

\_\_\_\_\_  
Contractor Signature                      Date

Deficiency/Impairment	Significant	ILSM 1	ILSM 2	ILSM 3	ILSM 4	ILSM 5	ILSM 6	ILSM 7	ILSM 8	ILSM 9	ILSM 10	ILSM 11	ILSM 12	ILSM 13	ILSM 14
Alter or compromise the integrity of exits or exit discharges	Y		Y	Y		N	N	Y							
Alter or compromise exit corridors, incl. length of travel	Y		Y	Y	Y	Y									
Removal or breach in fire or smoke barriers	Y			Y			Y	Y	Y			Y	Y		

**ILSM-01:** Inspect exits in affected areas on a daily basis and resolve problems immediately  
**ILSM-02:** Provide temporary but equivalent fire alarm and detection systems for use when a fire system is impaired  
**ILSM-03:** Provide additional firefighting equipment as needed  
**ILSM-04:** Use temporary construction partitions that are smoke-tight, or made of noncombustible or limited-combustible material that will not contribute to the spread of fire.  
**ILSM-05:** Increase surveillance of buildings, grounds, and equipment, giving special attention to construction to areas and storage, excavation, and field offices  
**ILSM-06:** Enforce storage, housekeeping, and debris-removal practices that reduce the buildings flammable and combustible fire load to the lowest feasible level  
**ILSM-07:** Provide additional training on use of fire-fighting equipment, impaired structural or fire safety features, temporary measures implemented, construction hazards, and building deficiencies.  
**ILSM-08:** Conducts one additional fire drill per shift per quarter as called for by policy, best practice, or at the discretion of the Safety Officer  
**ILSM-09:** Inspect and test ILSM systems monthly or once per project if the duration is less than one month  
**ILSM-10:** Notify the local fire department and internal responders of the ILSM steps in place using the ILSM form as required  
**ILSM-11:** Notify the occupants in the area of the deficiency and the ILSM steps in place using ILSM form as required  
**ILSM-12:** Install signage identifying the location of alternate exits or everyone affected  
**ILSM-13:** Refer to "Fire Watch Policy"  
**ILSM-14:** Block egress paths are never left unattended

Figure 6: ISLM reporting required by the Joint Commission



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