

LOWER AND UPPER EXPLOSIVE LIMITS

FIRE SAFETY | THINK AHEAD. CONTROL THE HAZARD. PROTECT THE CREW.

Today we are discussing lower and upper explosive limits. Review the job, identify the specific exposure, and agree on the controls before work begins.

COMMON HAZARDS AND SAFEGUARDS

- Understand that vapor burns only within its flammable range
- Know whether readings are percent LEL or percent volume
- Test at high, middle, and low elevations as appropriate
- Account for meter limitations and correction factors
- Continue monitoring when conditions can change
- Stop work at the permit or site alarm limit

THE COMMON-SENSE CHECK

- 1 What can go wrong during lower and upper explosive limits?
- 2 Which of today's conditions increases the risk?
- 3 Are isolation, permits, and equipment verified?
- 4 Does everyone understand the controls and limits?
- 5 What will make us stop, withdraw, or raise the alarm?

CONTROL THE EXPOSURE

PLAN

Understand that vapor burns only within its flammable range

VERIFY

Know whether readings are percent LEL or percent volume

CONTROL

Test at high, middle, and low elevations as appropriate

RESPOND

Stop work at the permit or site alarm limit

ASK THE CREW

1. Where could this hazard affect us during today's work?

2. Which control must be verified before we begin?

3. What condition requires us to stop work or evacuate?

DATE: _____ SUPERVISOR: _____ CREW / LOCATION: _____