Use this section to answer the following questions:

... Are the requirements found in Sec. 3103.12.6, *Exit Signs*, applicable to a tent 400 sq. ft. or less?

... Are exit signs required in a tent in excess of 400 sq. ft. when an exit serves 50 or more?

... May exit signs be internally illuminated in accordance with UL 924?
EXIT SIGNS

EXITS SHALL BE CLEARLY MARKED.
EXIT SIGNS SHALL BE INSTALLED AT REQUIRED EXIT DOORWAYS AND WHERE OTHERWISE NECESSARY TO INDICATE CLEARLY THE DIRECTION OF EGRESS WHEN THE EXIT SERVES AN OCCUPANT LOAD OF 50 OR MORE.

Sec. 3103.12.6
300 OR LESS OCCUPANTS

Internally illuminated

Listed and labeled in accordance with UL 924. This UL Standard provides for a minimum of 90 minutes of luminosity upon loss of normal power.

(Also see Section 1011.5, Internally Illuminated Exit Signs, IFC, 2014 ed.)

Externally illuminated

By luminaires supplied by two separate circuits, one of which shall be separate from all other circuits.
EXIT SIGN ILLUMINATION

IN EXCESS OF 300 OCCUPANTS

Internally illuminated

Listed and labeled in accordance with UL 924. This UL Standard provides for a minimum of 90 minutes of luminosity upon loss of normal power. (also see Section 1011.5, Internally Illuminated Exit Signs, IFC, 2014 ed.)

Externally illuminated

By luminaires supplied by two separate sources of power, one of which shall be an approved emergency system. The emergency system shall be supplied from storage batteries or from the on-site generator set. The emergency system shall have a minimum duration of 90 minutes when operated at full design demand. (also see Section 1011.6.2, Exit Sign Illumination, IFC, 2014 ed.)
THIS SCENARIO IS A “SCOPE” TENT; 400 SQ. FT. OR LESS

WITH AN ACTIVITY INSIDE THE TENT OTHER THAN OPEN OR EXPOSED FLAME AND / OR COOKING

DUE TO THE SIZE OF THIS TENT AND THE ACTIVITY INSIDE THE TENT

THE SCOPE IS THE ONLY APPLICABLE CODE SECTION IN CH. 31
THE 3 CODE SECTIONS AMENDED IN THE SCOPE ARE 3104.7, 3104.15.5 AND 3104.15.6

THESE 3 CODE SECTIONS PERTAIN TO OPEN OR EXPOSED FLAME AND / OR COOKING

THE REQUIREMENT FOR EXIT SIGNS IN THIS TENT HAS NOTHING TO DO WITH OPEN FLAME, ETC., THEREFORE,

DUE TO THE WAY THE SCOPE HAS BEEN WRITTEN, THIS TENT DOES NOT HAVE TO MEET ANYTHING IN CH. 31
“Scope” Tents

- DUE TO THE SCOPE, THIS TENT DOES NOT HAVE TO MEET SEC. 3103.12.6, EXIT SIGNS

- THIS SLIDE ALSO PERTAINS TO THE REQUIREMENTS FOUND IN SEC. 3103.12.6.1, EXIT SIGN ILLUMINATION

- THE REMOVAL OF THE SIDEWALLS OR DROPS DOES NOT CHANGE HOW THIS SCENARIO IS HANDLED
SUMMARY: the following code sections govern this scenario

- Sec. 3101.1 – Scope

   THIS IS THE ONLY CODE SECTION THAT APPLIES IN CH. 31.
“Regular” tents without sidewalls

- This scenario is a “regular” tent; in excess of 400 sq. ft.

- With chairs and a lectern inside the tent

- Due to the size of this tent, all of Chapter 31 is applicable

- Therefore, Section 3103.12.6, Exit Signs, applies
In this scenario, exit signs are not required. Study the text of Sec. 3103.12.6 piece by piece.

1) *Exits shall be clearly marked:* this tent is one big exit.

2) *Exit signs shall be installed at required exit doorways, and:* there are no exit doorways.

3) *where otherwise necessary to indicate clearly the direction of egress when the exit serves an occupant load of 50 or more.* Even with a square footage that would equate to an occupant load of 50 or more, the direction of egress is clear.

con’t. on the next slide
“Regular” tents without sidewalls

There could be instances where the direction of egress is not clear due to the activity in the tent, stock, displays and tables. In these cases, the Inspection Division, OSFM, will assess the situation and make a determination if exit signs are required.

Based upon this picture and the requirements found in Sec. 3103.12.6, exit signs are **not** required.
“Regular” tents with sidewalls

When sidewalls or drops are used, things change a bit. Study the text of Sec. 3103.12.6 piece by piece.

1) *Exits shall be clearly marked:* the exit opening in the rear is covered by a curtain which is a color which contrasts with the color of the tent.

2) *Exit signs shall be installed at required exit doorways,* and: there are no exit doorways. Everyone will agree there is an exit opening in the rear of the tent, however, this is not a doorway.

3) *where otherwise necessary to indicate clearly the direction of egress when the exit serves an occupant load of 50 or more.* This is described in detail on the next slide.
“Regular” tents with sidewalls

- When the size of a “regular” tent is between 401 and 749 sq. ft., the answer changes depending on which value is chosen from Table 1004.1.2, Maximum Floor Area Allowances Per Occupant.

- If an “Occupant Load Factor” of 5 or 7 is used for this range of sq. ft., exit signs are always required.

- However, when a factor of 15 (unconcentrated, tables and chairs) is used for this range of sq. ft., exit signs are not required.

- When the size of a “regular” tent is 750 sq. ft. or larger, exit signs are always required.
“Regular” tents with sidewalls

In summary for the tent shown, which is 401 sq. ft., one exit sign is required above the exit opening in the rear when a factor of 5 or 7 is used from Table 1004.1.2, *Maximum Floor Area Allowances Per Occupant*.

There would not be a sign required at the front of the tent based upon the discussion in the previous slides.
EXIT SIGNS

**Required?**

- "Scope" tent - no

- "Regular" tent without sidewalls or drops - no, unless the direction of egress is unclear

- "Regular" tent with sidewalls or drops between 401 and 749 sq. ft. - depends on which "Occupant Load Factor" is chosen from Table 1004.1.2:
  - 5 = yes
  - 7 = yes
  - 15 = no

- "Regular" tent with sidewalls or drops 750 sq. ft. or larger - yes

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**Sec. 3103.12.6**

2014 Indiana Fire Code
Effective 12-01-2014

Rev Web 7
01-01-2019
SUMMARY: the following code sections govern this scenario

- **Sec. 3101.1 – Scope**

- **Sec. 3103.12.6 – Exit signs**
  - Applicable to this scenario.

- **Sec. 3103.12.6.1 – Exit sign illumination**
  - Applicable to this scenario.
MEANS OF EGRESS ILLUMINATION

Use this section to answer the following questions:

… Are the requirements found in Sec. 3103.12.7, Means of Egress Illumination, applicable to a tent 400 sq. ft. or less?

… For a tent in excess of 400 sq. ft., was this section amended so it would parallel exit signs?

… For a 700 sq. ft. tent, if exit signs are required, is means of egress illumination required?
MEANS OF EGRESS ILLUMINATION SHALL BE INSTALLED AT REQUIRED EXIT DOORWAYS AND WHERE OTHERWISE NECESSARY TO INDICATE CLEARLY THE DIRECTION OF EGRESS WHEN THE EXIT SERVES AN OCCUPANT LOAD OF FIFTY (50) OR MORE. MEANS OF .....
MEANS OF EGRESS SHALL BE ILLUMINATED WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE FOOTCANDLE AT FLOOR LEVEL WHILE THE STRUCTURE IS OCCUPIED. FIXTURES REQUIRED FOR MEANS OF EGRESS ILLUMINATION SHALL BE SUPPLIED FROM A SEPARATE CIRCUIT OR SOURCE OF POWER.
This scenario is a "scope" tent; 400 sq. ft. or less

With an activity inside the tent other than open or exposed flame and/or cooking

Due to the size of this tent and the activity inside the tent

The scope is the only applicable code section in Ch. 31

Amendment; LSA Doc. # 13 - 341 ( F )
675 IAC 22 - 2.5 ( eff. 12 - 01 - 14 )
THE 3 CODE SECTIONS AMENDED IN THE SCOPE ARE 3104.7, 3104.15.5 AND 3104.15.6

THESE 3 CODE SECTIONS PERTAIN TO OPEN OR EXPOSED FLAME AND / OR COOKING

THE REQUIREMENT FOR EGRESS ILLUMINATION HAS NOTHING TO DO WITH OPEN FLAME, ETC., THEREFORE,

DUE TO THE WAY THE SCOPE HAS BEEN WRITTEN, THIS TENT DOES NOT HAVE TO MEET ANYTHING IN CH. 31

Amendment; LSA Doc. # 13 - 341 ( F )
675 IAC 22 - 2.5 ( eff. 12 - 01 - 14 )
“Scope” Tents

- DUE TO THE SCOPE, THIS TENT DOES NOT HAVE TO MEET SEC. 3103.12.7, MEANS OF EGRESS ILLUMINATION

- THE REMOVAL OF THE SIDEWALLS OR DROPS DOES NOT CHANGE HOW THIS SCENARIO IS HANDLED
SUMMARY: the following code sections govern this scenario

- Sec. 3101.1 – Scope

This is the only code section that applies in CH. 31.
This section was amended so it would parallel the requirement for exit signs found in Sec. 3103.12.6.

Therefore, in “regular” tents, means of egress illumination is required when exit signs are required.

Go to the slides showing the requirements for exit signs in “regular” tents to review the logic.
MEANS OF EGRESS ILLUMINATION

Amendment; LSA Doc. # 13 - 341 ( F )
675 IAC 22 - 2.5 ( eff. 12 - 01 - 14 )

- LIGHT SHALL HAVE AN INTENSITY OF NOT LESS THAN ONE FOOT-CANDLE AT FLOOR LEVEL WHILE THE STRUCTURE IS OCCUPIED

- FIXTURES REQUIRED FOR MEANS OF EGRESS ILLUMINATION SHALL BE SUPPLIED FROM A SEPARATE CIRCUIT OR SOURCE OF POWER
SUMMARY: the following code sections govern this scenario

- Sec. 3101.1 – Scope

- Sec. 3103.12.7 – Means of egress illumination
  Applicable to this scenario.
Tents And Other Membrane Structures

Presented by the State Fire Marshal’s Office
Division of Fire and Building Safety