



LEE'S SUMMIT MISSOURI

CODE MODIFICATION REQUEST

BUILDING/STRUCTURE NAME: Lee's Summit Medical Center - Ambulatory Surgery Center

PREMISE ADDRESS: 1950 SE Blue Pkwy, Lee's Summit, MO 64063

PERMIT NUMBER (if applicable): PRCOM20230570

OWNER'S NAME: HCA Midwest

TO: Director of Development Services

In accordance with the Lee's Summit Building Code, I wish to apply for a modification to one or more provisions of the code as I feel that the spirit and intent of the Lee's Summit Building Code are observed the public health, welfare and safety are assured. The following articulates my request for your review and action. (NOTE: ATTACH ANY ADDITIONAL INFORMATION NECESSARY)

Type of Request: () Design () Construction

We request using the 2021 NFPA 99 design requirements for a mechanically ventilated medical gas

storage rooms as defined in section 9.3.6.5.3 Mechanical Ventilation in lieu of the requirements listed

in the 2018 IFC section 5306.2.1 One-hour exterior rooms. See following page for more information.

SUBMITTED BY:

NAME: Rosemary Nelson

() OWNER (x) OWNER'S AGENT

ADDRESS: 1710 Wyandotte

Tel.# 816.595.9547

CITY, STATE, ZIP: Kansas City, MO 64108

SIGNATURE: Rosemary Nelson

Plan Review / Inspections Manager:

() APPROVAL

() DENIAL

SIGNATURE: _____ DATE: _____

Director of Development Services:

() APPROVED

() DENIED

SIGNATURE: _____ DATE: _____

COMMENTS _____

A COPY MUST BE ATTACHED TO THE APPROVED PLANS ON THE JOB SITE

2018 IFC 5306.2.1 defines requirements for one-hour exterior rooms containing medical gases that would require 36 sq in for every 1,000 cu. ft of stored gases at NTP. We believe the intent of this is for naturally ventilated medical gas rooms. This requirement aligns more with the definition of the NFPA 99 definition for naturally ventilated medical gas rooms listed in Section 9.3.6.5.2. Our design complies with NFPA 99 section 9.3.6.5.3 covering mechanically ventilated medical gas rooms.

Two exhaust grilles will be installed high & low in the room, with one grille within 12" of floor. A louvered exterior door will be provided for make-up outdoor air, and no air will be allowed to communicate between the med gas room and the rest of the building. The exhaust fan will be spark proof Type A in compliance with AMCA Standard 99-0401 Classifications of Spark Resistant Construction, which is the highest rating for spark resistance, to prevent potential ignition of nitrous oxide gas stored in med gas room.

Our design also complies with the exhaust system and airflow requirements listed in the 2018 IMC Section 502.9.1 Compressed gases - medical gas systems. We are providing 500 CFM of exhaust, which is the maximum allowed in NFPA 99 Section 9.3.6.5.3.2 to ensure proper turnover of air in the room. Fan will run continuously. Room will be provided with heating and cooling via a heat pump mini-split HVAC unit to ensure we maintain space conditioning between the temperature maximum listed in NFPA Section 9.3.6.7 (125 deg. F) and the temperature minimum listed in NFPA 99 Section 9.3.6.8 (20 deg. F).

We believe we meet the intention of the code to provide a properly and regularly ventilated medical gas room to prevent the build-up of potentially hazardous quantities of medical gases being stored, while protecting the building from ignition of stored gases with a spark proof exhaust fan.