

COUNTY OF LOS ANGELES FIRE DEPARTMENT FIRE PREVENTION DIVISION

REV 04/19

Fire Prevention Engineering 5823 Rickenbacker Road Commerce, CA 90040-3027 Telephone (323) 890-4125 Fax (323) 890-4129

STANDARD CANNABIS CONDITIONS OF APPROVAL

The following information is the standard items reviewed for compliance with the Fire Code for cannabis extraction, cultivation, post-process purification and winterization processes. Compliance with these items is essential to the Fire Prevention Engineering Section in order to approve your plans. Plans should also be submitted to your local Building and Safety Office.

Appointments to discuss Fire Department requirements may be made between 7:30 a.m. and 10:30 a.m. The main office is located at 5823 Rickenbacker Road, Commerce, CA 90040-3027. Phone number is (323) 890-4125.

Required Essential Information for initial plan check submittal:

A. Documentation:

- 1. Review Regulation #30 for Cannabis Cultivating /Production Requirements for Businesses.
- 2. Complete and return the attached "Notice to prospective business statement of intended use" Form 30C.
- 3. Provide Type of Cannabis License & Operation.
- 4. Provide Technical Report (Professional Engineer)
- 5. Provide completed Water Availability Form 196

B. Extraction:

1. Liquefied Petroleum Gas (LPG) - Tank locations

The location of LPG containers with respect to buildings, public ways and lot lines shall be in accordance with CFC Chapter 61 (CFC 6104.3) and Table 6104.3. Cylinders stored in buildings shall be considered full for determining MAQs (NFPA 58 - 8.2.1.4). Cylinders stored outside shall be stored in accordance with NFPA 58 - 8.4.1. and protected with NFPA 58 - 8.4.2 as follows:

- A) Five (5) feet from doorway with two means of egress.
- B) 10 feet from doorway with a single means of egress.
- C) Five (5) feet from buildings, property lines, and sidewalks with tank capacity of less than 720 pounds (Can reduce to zero feet if the exterior wall is rated no less than two-hours).
- D) Vehicle barrier protection shall be provided where vehicle traffic is expected at the location. (NFPA 58 8.4.2.2)
- E) Cylinders to be in an enclosure in accordance with NFPA 58- 6.21.4.2 <u>OR</u> cylinders to be within a lockable ventilated enclosure of metal exterior construction.

ACTION REQUIRED: Indicate the size and location of all LPG cylinders on the site plan and/or floor plan. Provide dimensions to buildings, public ways, lot lines and exit doors.

2. Liquefied Petroleum Gas (LPG) - MAQ's

The maximum quantity of LPG per control area shall not exceed the maximum allowable amount as indicated in CBC Table 307.1(1). If the allowable quantity is exceeded it shall be located in an H-2 or H-3 room. The aggregate amount in use and in storage shall not exceed the quantity listed below for storage. Empty cylinders stored in buildings shall be considered full for determining MAQ's (NFPA 58 - 8.2.1.4)

- A) Allowable amount in storage is 1000 cubic feet/150 pounds liquid
- B) Allowable amount in use-closed system is 1000 cubic feet/150 pounds liquid
- C) Allowable amounts may be increased 100% for sprinklers or approved storage cabinets
- D) Signage indicating "NON-ODORIZED LIQUEFIED PETROLEUM GAS" shall be provided on all containers using non-odorized LPG (NFPA 58, 5.2.8.5).

ACTION REQUIRED: Indicate location, individual size, and maximum quantity of all LPG cylinders on the site plan and/or floor plan. Indicate maximum quantity in-use and in storage.

3. Liquefied Petroleum Gas (LPG) - General

LPG cylinders shall comply with the following:

- A) Pressure relief devices shall be in accordance with CFC 5303.3
- B) Cylinders 4 to 40 pounds propane capacity shall be equipped with a listed overfilling prevention device and a maximum liquid level gauge. Overfill prevention devices shall be in accordance with NFPA 58 5.9.3
- C) C) All LPG cylinders shall be labeled "FLAMMABLE GAS" 'PROPANE and/or "BUTANE" NFPA 58 5.2.8.1

ACTION REQUIRED: Provide verbatim note on site plan and/or floor plan, where cylinders are being stored.

4. Plant Extraction Systems - Operational Permits

An operational permit shall be obtained to use a plant extraction system. Fire Code 105.6.50

ACTION REQUIRED: Provide note on site plan.

5. Plant Extraction Systems - Construction Permit

A construction permit is required for the installation of or modification to a plant extraction system. Fire Code 105.7.20

ACTION REQUIRED: Provide note on site plan.

6. Plant Processing – Location

Plant processing or extraction facilities shall only take place in a building or room constructed in compliance with the California Building Code and Fire Code designed or such use. Fire Code 3801.1 Regulation #30.

ACTION REQUIRED: Provide note on site plan.

7. Plant Extraction - Location

The extraction equipment and extraction process utilizing hydrocarbon solvents shall be located in a room or area dedicated to extraction.

Fire Code 3803.3

ACTION REQUIRED: Show all location(s) of all plant extraction equipment and plant extraction processes.

8. Post-Process Purification and Winterization

Post-processing and winterization involving the heating or pressurizing of miscella to other than normal pressure or temperature shall only be performed in an appliance listed for such use. Domestic or commercial cooking appliances shall not be used. Fire Code 3803.4

ACTION REQUIRED: Provide note on site plan. Provide manufacturer make, model, specifications and listing information.

9. Plant Processing - Industrial Ovens

The use of industrial ovens shall comply with Chapter 30 of the CFC. Ovens used for volatile extraction process shall be listed Class A ovens or approved. Fire Code 3803.5

ACTION REQUIRED: Provide note on site plan. Provide manufacturer make, model and specifications.

Vacuum pumps connected to post-processing vacuum ovens shall be exhausted out of the building.

ACTION REQUIRED: Provide note on site plan and extraction plan

10. Plant Extraction - Use of Flammable and Combustible Liquids

The use of flammable and combustible liquids for liquid extraction processes where the liquid is boiled, distilled, or evaporated shall occur under a hazardous exhaust fume hood, rated for exhausting flammable vapors. Electrical equipment used within the hazardous exhaust fume hood shall be rated for use in flammable atmospheres. Heating of flammable or combustible liquids over an open flame is prohibited. Fire Code 3803.6

ACTION REQUIRED: Provide note on site plan and extraction plan. Provide manufacturer make, model and specifications for exhaust fume hoods.

11. Plant Processing and Extraction - Systems and Equipment

Systems and equipment used for the processing and extraction of oils and products from plants shall comply with Sections 3804.2 through 3804.4, 5003.2 and other applicable provisions of the California Fire Code, Building Code and Mechanical Code. Fire Code 3804.1

ACTION REQUIRED: Provide note on site plan.

12. Plant Processing and Extraction - Systems and Equipment

Systems or equipment used for the extraction of oils from plant material shall be listed or approved for the specific use. If the system used for extraction of oils and products from plant material is not listed, then the system shall be reviewed by a Registered Design Professional.

The registered design professional shall review and consider any information provided by the system's designer or manufacturer. For systems and equipment not listed for the specific use, a technical report in accordance with Section 3804.3 shall be prepared and submitted to the fire code official for review and approval. The firm or individual preparing the technical report shall be approved by the fire code official prior to performing the analysis. Fire Code 3804.2

ACTION REQUIRED: Provide note on site plan. Submit listing information for all listed extraction equipment and/or provide a technical report for all non-listed equipment. Submit a letter of qualification for the firm or individual preparing the technical report.

13. Plant Processing and Extraction - Technical Report

The technical report that has been reviewed and approved by the fire code official, as required by Section 3804.2, is required prior to the equipment being located or installed at the facility. The report shall be prepared by a Registered Design Professional or other professional approved by the fire code official. Fire Code 3804.3

ACTION REQUIRED: Provide note on site plan.

14. Plant Processing and Extraction - Technical Report

The technical report shall contain all of the following:

- 1) Manufacturer information.
- 2) Preparer of record on technical report.
- 3) Date of review and report revision history.
- 4) Signature page shall include all of the following:
- 4.1) Author of the report.
- 4.2) Date of report.
- 4.3) Date and signature of Registered Design Professional of record performing the design or peer review.

- 5) Model number of the item evaluated. If the equipment is provided with a serial number, the serial number shall be included for verification at time of site inspection.
- 6) Methodology of the design or peer review process used to determine minimum safety requirements. Methodology shall consider the basis of design, and shall include a code analysis and code path to demonstrate the reason as to why specific code or standards are applicable or not.
- 7) Equipment description. A list of every component and sub-assembly (fitting, hose, quick disconnects, gauges, site glass, gaskets, valves, pumps, vessels, containers, switches, etc.) of the system or equipment, indicating the manufacturer, model number, material, and solvent compatibility. Manufacturer's data sheets shall be provided.
- 8) A general flow schematic or general process flow diagram of the process. Post-processing or winterization may be included in this diagram. All primary components of the process equipment shall be identified and match the equipment list required in Item 7. Operating temperatures, pressures, and solvent state of matter shall be identified in each primary step or component. A piping and instrumentation diagram (PID or PI&D) shall be provided.
- 9) Analysis of the vessel(s) if pressurized beyond standard atmospheric pressure. Analysis shall include purchased and fabricated components.
- 10) Structural analysis for the frame system supporting the equipment.
- 11) Process safety analysis of the extraction system, from the introduction of raw product to the end of the extraction process.
- 12) Comprehensive process hazard analysis considering failure modes and points of failure throughout the process. The process hazard analysis shall include a review of emergency procedure information provided by the manufacturer of the equipment or process and not that of the facility, building or room.
- 13) Review of the assembly instruction, operational and maintenance manuals provided by the manufacturer.
- 14) List of references used in the analysis.

Fire Code 3804.3.1

ACTION REQUIRED: Provide note on site plan. Submit listing information for all listed extraction equipment and provide a technical report with all of the above information for all non-listed equipment.

15. Plant Processing and Extraction - Site Inspection

Prior to operation of the extraction equipment, where required by the fire code official, the engineer of record or approved professional, as approved in Section 3805.2, shall inspect the site of the extraction process once equipment has been installed for compliance with the technical report and the building analysis. The engineer of record or approved professional shall provide a report of findings and observations of the site inspection to the fire code official prior to the approval of the extraction process. The field inspection report authored by engineer of record shall include the serial number of

the equipment used in the process and shall confirm the equipment installed is the same model and type of equipment identified in the technical report. Fire Code 3804.4

ACTION REQUIRED: Provide note on site plan.

16. Plant Extraction - Gas Detection Systems

For extraction processes utilizing flammable gases as solvents, a continuous gas detection system shall be provided. The gas detection threshold shall be no greater than 25% of the lower flammable limit (LFL) of the materials. Fire Code 3805.1

ACTION REQUIRED: Provide above note on site plan. Separate gas detection plans shall be submitted to the Alarm Plan Check Unit for review and approval prior to installation.

17. Plant Extraction - Gas Detection Systems

The flammable gas detection system shall be listed or approved and shall be calibrated to the types of fuels or gases used for the extraction process. The gas detection system shall be designed to activate when the level of flammable gas exceeds 25% of the lower flammable limit (LFL). Fire Code 3805.1.1

ACTION REQUIRED: Provide note on site plan.

18. Plant Extraction - Gas Detection Systems Components

Gas detection system control units shall be listed and labeled in accordance with UL 864 or UL 2017. Gas detectors shall be listed and labeled in accordance with UL 2075 for use with the gases and vapors being detected. Fire Code 3805.1.2

ACTION REQUIRED: Provide note on site plan. Submit manufacture's specifications and listing information.

19. Plant Extraction - Gas Detection System Activation

Activation of the gas detection system shall result in all of the following:

- 1) Initiation of distinct audible and visual alarm signals in the extraction room.
- 2) Deactivation of all heating systems located in the extraction room.
- 3) Activation of the mechanical ventilation system, where the system is interlocked with gas detection.

Audible and visible alarm signals associated with a gas detection alarm shall be distinctive from fire alarm and carbon monoxide alarm signals. Fire Code 3805.1.3, Regulation #30

ACTION REQUIRED: Provide note on site plan and show location(s) of all audible and visual alarms signals on the extraction and electrical plan.

20. Failure of the Gas Detection System

Failure of the gas detection system shall result in the deactivation of the heating system, activation of the mechanical ventilation system where the system is interlocked with the gas detection system, and cause a trouble signal to sound in an approved location. Fire Code 3805.1.4

ACTION REQUIRED: Provide note on site plan.

21. Failure of the Ventilation System

Failure of the ventilation system covering the extraction area shall result in the deactivation of the extraction process, including the heating system and cause a trouble signal to sound in an approved location. Regulation #30.

ACTION REQUIRED: Provide note on site plan.

22. Gas Detection System Interlocks

All electrical components within the extraction room shall be interlocked with the gas detection system. Activation of the gas detection system shall disable all light switches and electrical outlets. Fire Code 3805.1.5

ACTION REQUIRED: Provide note on site plan.

23. Gas Detection System Emergency Shutoff

Extraction processes utilizing gaseous hydrocarbon-based solvents shall be provided with emergency shutoff systems in accordance with Section 5803.1.3. Fire Code 3805.2

ACTION REQUIRED: Provide note on site plan.

24. Signage

Signs shall be provided adjacent to gas detection system alarm signaling devices that advise occupants of the nature of the signals and actions to take in response to the signal. Regulation #30

ACTION REQUIRED: Provide note on site plan.

25. Fire Alarm System Connections

Gas sensors and gas detection systems shall not be connected to fire alarm systems unless approved and connected in accordance with the fire alarm equipment manufacturer's instructions. Regulation #30

ACTION REQUIRED: Provide note on site plan.

26. Inspections

Inspection, Testing and Sensor Calibration: Inspection and testing of gas detection systems shall be conducted not less than annually. Sensor calibration shall be confirmed at the time of sensor installation and calibration shall be performed at the frequency specified by the sensor manufacturer. A written record of the calibration shall be provided to the fire code official upon request. Regulation #30

ACTION REQUIRED: Provide note on site plan.

27. NFPA 704 Building Placards

Any building that has flammable or combustible gas for extraction process shall have an appropriate placard externally placed on the building, on the address side, and at any access point within the building where the extraction process occurs. Fire Code 5003.5

ACTION REQUIRED: Provide note on site plan and show placard locations on the floor plan.

28. No Smoking Signage

"No Smoking" signs shall be posted at entrances to rooms and in areas containing flammable gases in accordance with Section 5003.7.1 per CFC 5803.1.4.2 signs.

ACTION REQUIRED: Provide note on site plan and show sign locations on the floor plan.

C. Enrichment system:

1. Compressed Gases (CO2) - General

The storage, use and handling of compressed gases in compressed gas containers, cylinders, tanks and systems shall comply with the Fire Code Chapter 53 and NFPA 55.

ACTION REQUIRED: Provide verbatim note on site plan and/or floor plan, where cylinders are being stored

2. Compressed Gases (CO2) - Identification

Compressed gas cylinders shall be clearly marked with the name of the gas contained therein. Fire Code 5301.1

Cylinders containing Carbon Dioxide shall bear gray color markings and labels.

ACTION REQUIRED: Provide verbatim note on site plan and/or floor plan, where cylinders are being stored

3. CO2 Enrichment systems - Protection from Damage

CO2 systems shall be installed so the storage tanks, cylinders, piping, and fittings are protected from damage by occupants or equipment during normal facility operations. Fire Code 5307.3.1

ACTION REQUIRED: Provide note on site plan and/or CO2 enrichment plans. Show method of protection, where necessary.

4. CO2 Enrichment systems - Operational Permits

Operational permits shall be obtained for any CO2 enrichment systems utilizing more than 100 pounds (874 cubic feet at NTP) of CO2 and CO2 enrichment systems with any quantity of CO2 having a remote fill connection. Fire Code 105.6.4.1.

ACTION REQUIRED: Provide note on site plan.

5. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Location and total volume of the room where the CO2 enrichment operation will be conducted. Identify whether the room is at grade or below grade. Fire Code 5307.4.1

ACTION REQUIRED: Indicate on floor plan and/or CO2 enrichment plan.

6. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Location and total volume of the room where the CO2 enrichment operation will be conducted. Identify whether the room is at grade or below grade. Fire Code 5307.4.1

ACTION REQUIRED: Indicate on floor plan and/or CO2 enrichment plan.

7. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Location of containers relative to equipment, building openings and means of egress. Fire Code 5307.4.1

ACTION REQUIRED: Show on site plan, floor plan and/or CO2 enrichment plan.

8. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Manufacturer's specifications and pressure rating, including cut sheets of all piping and tubing to be used.

ACTION REQUIRED: Provide manufacturer's specifications including cut sheets.

9. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

A piping and instrumentation diagram that shows piping support and remote fill connections. Fire Code 5307.4.1

ACTION REQUIRED: Show on the floor plan, CO2 enrichment plan or on a separate sheet.

10. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Details of container venting, including but not limited to vent line size, material, and termination location. Fire Code 5307.4.1

ACTION REQUIRED: Indicate on floor plan and/or CO2 enrichment plan.

11. CO2 Enrichment systems – Documentation

The following information shall be provided with the application for permit:

Alarm and detection system and equipment. Fire Code 5307.4.1

ACTION REQUIRED: Indicate on floor plan and/or CO2 enrichment plan.

12. CO2 Enrichment systems - Equipment

Pressure relief, vent piping, fill indicators, fill connections, vent terminations, piping system, as well as the storage, use, and handling of the CO2 shall be in accordance with Chapter 53 of the California Fire Code and NFPA 55. Fire Code 5307.4.2

ACTION REQUIRED: Provide note on site plan and/or CO2 enrichment plan.

13. CO2 Enrichment systems - Gas Detection

A continuous gas detection system shall be provided in the room or indoor area in which the CO2 enrichment process is located, in the room or indoor area in which the container systems are located and in other areas where CO2 is expected to accumulate, including rooms or areas directly adjacent to the enrichment area connected by doors or other means of travel. CO2 sensors shall be provided within 12 inches of the floor in the area where the gas is expected to accumulate or where leaks are most likely to occur. The system shall be designed as follows: Fire Code 5307.4.3.

- 1) Activate a low-level alarm upon detection of a CO2 concentration not to exceed 5,000 ppm per CFC.
- 2) Activate a high-level alarm upon detection of a CO2 concentration not to exceed 30,000 ppm per CFC.

ACTION REQUIRED: Show all rooms and areas that are provided with a gas detection system. Provide the above note on the CO2 enrichment plan.

Submit separate gas detection plans and specifications to the Fire Alarm Plan Check Unit.

14. CO2 Enrichment systems - System Activation

- ❖ Activation of the low-level gas detection system alarm shall automatically:
 - 1) Stop the flow of CO2 to the piping system.
 - 2) Activate the mechanical exhaust ventilation system.
 - 3) Activate an audible and visible supervisory alarm signal at an approved location within the building.
- ❖ Activation of the high-level gas detection system alarm shall automatically:
 - 1) Stop the flow of CO2 to the piping system.
 - 2) Activate the mechanical exhaust ventilation system.
 - 3) Activate an audible and visible evacuation alarm, both inside and outside of the CO2 enrichment area, and the area in which the CO2 containers are located.

Fire Code 5307.4.3

ACTION REQUIRED: Provide notes on CO2 enrichment plan.

15. CO2 Enrichment systems - System Failure

Gas Detection System Failure: Failure of the CO2 gas detection system shall result in immediate activation of the ventilation system and the shutdown of the CO2 enrichment system. LACoFD Regulation 30.

ACTION REQUIRED: Provide note on CO2 enrichment plan.

16. CO2 Enrichment systems - Pressurization and Ventilation

Pressurization and ventilation rooms or indoor areas, in which CO2 enrichment is provided, shall maintain at a negative pressure in relation to the surrounding areas of the building. A mechanical ventilation system shall be provided in accordance with the Mechanical Code that complies with the following: Fire Code 5307.4.4 & Regulation 30

- 1) Mechanical ventilation in the room or area shall be at a rate of not less than 1 cubic foot per minute per square foot.
- 2) When activated by the gas detection system the mechanical ventilation system shall remain on until manually reset.
- 3) The exhaust system intakes shall be taken from points within 12 inches of the floor.
- 4) The ventilation systems piping shall terminate outdoors in an approved location.
- 5) The pressure differential system and the ventilation system shall be interlocked to the CO2 enrichment system. Failure of either the pressure differential system or the ventilation system shall immediately result in the shutdown of the CO2 enrichment system.

ACTION REQUIRED: Provide note on CO2 enrichment plan. Explain and show how negative pressure will be created.

17. CO2 Enrichment system - Signage

Hazard identification signs shall be posted at all entrances to the room and indoor areas where the CO2 enrichment process is located, and at all entrances to the rooms or indoor areas where the CO2 containers are located. The sign shall be a minimum of 8 inches wide and 6 inches high and indicate:

CAUTION - CARBON DIOXIDE GAS Ventilate the Area Before Entering.

A high Carbon Dioxide (CO2) gas concentration in this area can cause asphyxiation.

ACTION REQUIRED: Provide note of signage on CO2 enrichment plan. See LACoFD Regulation #30 for an example.

18. CO2 Enrichment systems - Emergency Shutoff

All CO2 enrichment systems shall be equipped with an emergency shut off switch that shall stop the enrichment process and activate the area's ventilation system. Fire Code 5307.4.5

ACTION REQUIRED: Provide note on CO2 enrichment plan.

19. CO2 Enrichment systems - Container Refilling

CO2 containers located indoors shall not be refilled unless filled from a remote connection located outdoors. Fire Code 5307.4.7

ACTION REQUIRED: Provide note on CO2 enrichment plan.

20. CO2 Indoor Storage – General

Where CO2 storage tanks, cylinders, piping and equipment are located indoors, rooms or areas containing CO2 storage tanks, cylinders, piping and fittings and other areas where a leak of CO2 can collect shall be provided with either ventilation in accordance with Section 5307.5.1 or a gas detection system. Fire Code 5307.5

ACTION REQUIRED: Show all rooms containing CO2 tanks, cylinders and piping and indicated method of protection.

21. CO2 Indoor Storage - Ventilation

Indoor storage and use areas and storage buildings shall be provided with ventilation in accordance with the requirements of Section 5004.3. Where mechanical ventilation is provided, the systems shall be operational during such time as the building or space is occupied.

Exception: A gas detection system complying with subsection (i.5) shall be permitted in lieu of mechanical ventilation. Fire Code 5307.5.1

ACTION REQUIRED: Provide note on floor plan and/or CO2 enrichment plan.

22. Exit Doors from CO2 Enrichment Rooms and Plant Extraction Rooms

All exit doors leading from CO2 enrichment rooms and plant extraction rooms shall conform with the following:

Regulation #30

- 1) Shall be installed with listed and approved panic hardware.
- 2) Shall open out, towards the direction of egress.
- 3) Shall be equipped with a listed and approved self-closing mechanism.
- 4) Shall be equipped with a sealing gasket around the door threshold.

ACTION REQUIRED: Indicate on floor plan and door schedule.

23. Gas Detection Systems - Construction Permit

A construction permit is required for the installation of a gas detection system. Fire Code 105.7.19.

ACTION REQUIRED: Provide note on site plan.

24. Failure of the Gas Detection System

Failure of the gas detection system shall result in the deactivation of the heating system, activation of the mechanical ventilation system where the system is interlocked with the gas detection system, and cause a trouble signal to sound in an approved location. Fire Code 3805.1.4

ACTION REQUIRED: Provide note on site plan.

25. Failure of the Ventilation System

Failure of the ventilation system covering the extraction area shall result in the deactivation of the extraction process, including the heating system and cause a trouble signal to sound in an approved location. Regulation #30.

ACTION REQUIRED: Provide note on site plan

26. Gas Detection System Emergency Shutoff

Extraction processes utilizing gaseous hydrocarbon-based solvents shall be provided with emergency shutoff systems in accordance with Section 5803.1.3. Fire Code 3805.2

ACTION REQUIRED: Provide note on site plan.

27. Signage

Signs shall be provided adjacent to gas detection system alarm signaling devices that advise occupants of the nature of the signals and actions to take in response to the signal. Regulation #30

ACTION REQUIRED: Provide note on site plan.

28. Fire Alarm System Connections

Gas sensors and gas detection systems shall not be connected to fire alarm systems unless approved and connected in accordance with the fire alarm equipment manufacturer's instructions. Regulation #30

ACTION REQUIRED: Provide note on site plan.

30. Inspections

Inspection, Testing and Sensor Calibration: Inspection and testing of gas detection systems shall be conducted not less than annually. Sensor calibration shall be confirmed at the time of sensor installation and calibration shall be performed at the frequency specified by the sensor manufacturer. A written record of the calibration shall be provided to the fire code official upon request. Regulation #30

ACTION REQUIRED: Provide note on site plan.

31. NFPA 704 Building Placards

Any building that has flammable or combustible gas for extraction process shall have an appropriate placard externally placed on the building, on the address side, and at any access point within the building where the extraction process occurs. Fire Code 5003.5

ACTION REQUIRED: Provide note on site plan and show placard locations on the floor plan.

32. No Smoking Signage

"No Smoking" signs shall be posted at entrances to rooms and in areas containing flammable gases in accordance with Section 5003.7.1 per CFC 5803.1.4.2 signs.

ACTION REQUIRED: Provide note on site plan and show sign locations on the floor plan.

33. General Electrical Requirements

Wet locations: Grow rooms will be considered damp/wet locations as they are subject to wash down and are subjected to the high humidity. Indoor wet location wiring methods shall meet the requirements of the CEC Article 300.3(D) when humidity is left uncontrolled >50%.

ACTION REQUIRED: Provide notes on site plan.

34. General Electrical Requirements

Circuit interrupters: Ground Fault Circuit Interrupters are required for personnel protection in the wet locations.

ACTION REQUIRED: Provide notes on site plan.

35. General Electrical Requirements

NM cables: NM cable (romex) is not allowed for the use in wet locations (i.e. grow rooms) per the CEC Article 334.10

ACTION REQUIRED: Provide notes on site plan.

36. Refrigerated storage

Refrigerated storage or processing of flammable liquids including oil laden with flammable liquids must only use refrigerators/freezers rated to store flammable liquids. At minimum, a "Lab-Safe" or "Flammable Safe" rated refrigerator/freezer must be used. NFPA 45,11.3.2.

ACTION REQUIRED: Provide note on site plan or floor plan