General Guidelines for Marijuana Operations North Las Vegas Building and Fire Safety

This guideline was created for the regulation of Marijuana and other related matters.

NOTE: The items reflected in this guideline are informational only and subject to be modified depending on specific locations and processes. Additional requirements may apply.

General:

Any building, facility space or similar location that requires any construction, modifications or similar work that is associated with a proposed Marijuana Cultivation (Grow), Production, or Laboratory facility shall obtain the appropriate construction permits for such work. All submittals shall be prepared by a licensed State of Nevada architect or design professional or other approved contractor(s), ***Nevada Blue Book,*** and shall be in compliance with City of North Las Vegas Standards. A Technical Opinion and Report prepared and sealed by a Nevada Licensed Fire Protection Engineer is required. The report requires ***a separate permit number***; it shall analyze the fire safety properties of the proposed use of the building. The process description shall be illustrated in a process flow diagram. An Operations Manual (detailed in this document) and a complete Peer Review paper demonstrating safe and reliable extraction equipment and methods shall be included with the report. ***IFC 901.2.2 as amended.***

Cultivation/Grow Facility

All facilities shall be in compliance with the State of Nevada Department of Agriculture and City of North Las Vegas requirements for marijuana grow facilities. Such facilities are considered an F-1 Occupancy as classified by The International Building Code (IBC) Chapter 306.2. Facilities that are strictly cultivation may be classified as a Group U occupancy depending on activities within the facilitiy.

Standards and/or codes utilized for such systems shall include but not be limited to:

- ASHARE 62-1989 Standard of ventilation levels (Determining fresh air and exhaust rates)
- City of North Las Vegas Adopted Mechanical Code (2018 UMC)
- City of North Las Vegas Adopted Building Code (2018 IBC)
- City of North Las Vegas Adopted Fire Code (2018 IFC)
- City of North Las Vegas Adopted Energy Conservation Code (2018 IECC)

Items to be considered: *(All or part may be required)*

Water Quality/Pre-Treatment - Any CNLV required Water Quality/Pre-Treatment Permits shall be obtained for any excess fertilizer, wastewater or storm water discharged from the facility.

Air Quality – Locations utilizing a boiler, Co2 enrichment or other means shall install appropriate scrubbers or other filtration systems as needed. A permit form the SNAQ shall be obtained prior to permit approval.

Solid Waste – Disposal of product shall be in compliance with the SNHD State of Nevada requirements. (Donna Houston @ 702-759-0549)

Hazardous Materials Waste Management – Pesticides, herbicides, hazardous materials, flammable, toxic, or other materials shall be in compliance with State of Nevada, Department of Transportation (DOT), United States Code of Federal Regulation (CFR) and any State or Local codes or regulations for such material. A hazardous materials inventory statement of all materials/liquids/aerosols to be stored or used is required. The inventory shall indicate (a) Product Name. (b) Component. (c) Chemical Abstract Service (CAS) number. (d) Location where stored or used. (e) Container size. (f) Hazard Classification. (g) Amount in Storage. (h) Amount in use-closed system. (i) Amount in use-open system. (j) Aggregate quantities per control area. (k) Floor plan with designated control areas and details of 704 placard for facility and for each control area. (l) Cabinets or exhausted enclosures. (m) NFPA 704 hazard numbers.

Combustible Dust Control – Any grinding, drying, silo storage or other processes that may create combustible dust may require specific electrical systems housekeeping and fire suppression.

Co2 enriched cultivation/grow facilities – All facilities utilizing a Co2 enrichment system(s) **shall** be provided with an approved hazardous level detection system. Such systems shall be monitored for lower exposure level of 5000 ppm. Audible and visible notification shall be provided throughout the facility upon alarm. Co2 alarm system control panel shall be located outside the area subject to enrichment ***IFC 102.9***.

Production Facility

The facility shall be constructed in accordance with the occupancy group for such production operations based on design criteria established by a licensed Fire Protection Engineer for such operations. Examples of items to be considered: Mechanical systems and ventilation, proper electrical systems for such conditions, fire protection systems, hazardous condition monitoring and control of materials creating a life or fire hazard.

Standards and or codes referenced for such systems shall be but not limited to:

- 2018 International Fire Code with CLV Adopted amendments
- 2018 International Building Code with CLV adopted amendments
- Adopted National Fire Protection Association (NFPA) standards
- Any other applicable standards including following all applicable fire, safety, and building codes for the use and storage of light hydrocarbons or other similar materials.

Approved Production/Extraction Process

High Pressure Co2:

The use of high pressure Co2 processing may be utilized using a commercially manufactured professional grade closed loop extraction system. A submittal, providing complete details of the proposed extraction process, equipment, ventilation/mechanical exhaust system, and room construction in a narrative form, shall be submitted to North Las Vegas Building and Fire Safety Division, Fire Safety Section for review and approval. All equipment utilized for extraction shall be tested and certified by a Nationally Recognized Testing Laboratory.

Standards and/or codes referenced for such systems shall include but not be limited to:

- American Society of Mechanical Engineers
- Society of Fire Protection Engineers
- American National Standards Institute (ANSI)
- Underwriters Laboratories (UL)
- American Society for Testing and Materials (ASTM)
- 2018 International Fire Code with CNLV Adopted amendments
- Any other applicable standards including following all applicable fire, safety, and building codes for the use, handling the gas product.

Other Processing Methods:

Processing may also employ the use of heat, steam distillation, ice water or other methods that utilize solvents, or light hydrocarbons. Such systems and processes shall be submitted by and verified for fire and safety methodology by a State of Nevada licensed Fire Protection Engineer, and then submitted to the City of North Las Vegas Building and Fire Safety Division for review and approval.

A complete Operation and Maintenance manual (O&M) shall be created for any and all processes for medical marijuana including Material Safety Data Sheets (MSDS). Manuals shall be reviewed by a State of Nevada Licensed Fire Protection engineer and then submitted to the City of North Las Vegas Building and Fire Safety Division for review and approval.

A documented training manual shall be developed, reviewed by a State of Nevada Licensed Fire Protection engineer and then submitted to the City of North Las Vegas Building and Fire Safety Division for review and approval.

NOTE: All Security items related to the cultivation or production of marijuana and related products are not part of this document but shall be integrated as need to assure the safety of the operators and customers.