



Cannabis License Inspection Checklist

Building Department Guide (Rev. 02.13.23)

This is a general guide intended for use by certified building Inspectors. It is not exhaustive nor meant to cover every scenario or serve as a replacement for the code books. The planning department may have additional requirements not included in this checklist, please contact them for more information. Note: This guide is limited to F-1 Occupancy only.

Short Form

YES	NO	N/A	CODE REF.	GENERAL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 413.1	High Piled Storage
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 413.2	Attic, Under-Floor and Concealed Spaces
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC CH.10	Egress, Guards, Handrails
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1204	Lighting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 304.1	Poor housekeeping/ Large amounts of Combustible Material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC CH 3	Exposed electrical connections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1013	Emergency Egress Lighting / Exit Signage
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC CH 3	Dedicated outlets
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 400.8	Flexible cords (extension cords)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 105.4	Un-permitted work
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 307.1.1	HMIS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1010	Door operations
YES	NO	N/A	CODE REF.	OUTDOOR STORAGE, DISPENSING AND USE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6	Outdoor Storage, Dispensing and Use
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.1	Walls
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.2	Separation Distance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.3	Noncombustible Construction
YES	NO	N/A	CODE REF.	INFUSED PRODUCTS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IMC 301.7	Listed Equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UPC CH. 10	Grease Interceptor
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 904.2.2 IMC Sec 507	<input type="checkbox"/> Type 1 Hood <input type="checkbox"/> Type 2 Hood <input type="checkbox"/> Exception
YES	NO	N/A	CODE REF.	CULTIVATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IMC 403.2	Required outdoor ventilation air provided.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UPC 602.3	Backflow prevention device
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 314.15	Provide GFI protected outlets in wet locations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 334.10	Approved wiring methods.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 110.3	All electrical equipment is to be listed and labeled.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 5307.4	Carbon dioxide (CO2) generation

YES	NO	N/A	CODE REF.	EXTRACTION (W/ SOLVENTS)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3901.1	Scope
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.5	Inside Storage, Dispensing and Use of Hazardous Materials
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 500.5 NEC Sec 501	Class 1, Division 1 Extraction Room
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 716.2.6	Fire Door Hardware and Closures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 716.2.9	Labeled Protective Assemblies
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 501.135	C1D1 Equipment and Appliances
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.2	3903.2 Prohibited Occupancies
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.3	3903.3 Location
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.4	Post-Process Purification and Winterization
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.5	Fume Hood Required
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3904.2	Listed Systems and Equipment
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC Sec 3905	Gas Detection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3905.2	Emergency Shutoff
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NFPA 170	Signage
YES	NO	N/A	CODE REF.	CONTROL AREAS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.1	General
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.1.3	Information Required Stamped Report
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.2	Control Areas <input type="checkbox"/> Reviewed at time of HMIS permit submission (Businesses existing before Jan 1, 2022)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.3	Ventilation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.4	Hazardous Material Systems
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Table 716.1[2]	Rated doors
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IMC 304.4	Prohibited Equipment and Appliance Location

The following pages provide more detail.



GENERAL

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 413.1	General - High-piled stock or rack storage of any occupancy group shall comply with the IFC.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 413.2	Attic, Under-Floor and Concealed Spaces - Attic, under-floor and concealed spaces used for storage of combustible materials shall be protected on the storage side as required for 1-hour fire-resistance-rated construction. Openings shall be protected by assemblies that are self-closing and are of noncombustible construction or solid wood core not less than 13/4 inch (45 mm) in thickness. <u>Exception</u> : Neither fire-resistance-rated construction nor opening protectives are required in any of the following locations: Areas protected by approved automatic sprinkler systems or Group R-3 and U occupancies.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC CH.10	Egress, Guards, Handrails - Clear means of egress required; egress doors shall not be obstructed. Guards and handrails shall be per current IBC/IEBC.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1204	Lighting - Artificial light shall be provided that is adequate to provide an average illumination of 10 footcandles (107 lux) over the area of the room at a height of 30 inches (762 mm) above the floor level.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 304.1	Poor housekeeping/ Large amounts of Combustible Material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC CH 3	Exposed electrical connections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1013	Emergency Egress Lighting / Exit Signage - Required.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC CH 3	Dedicated outlets - Dedicated outlets are needed for all mounted light fixtures, fans etc. (extension cords are not allowed for permanent fixtures.) A dedicated outlet must be within 6' of the fixture. Additionally, increased lighting loads may require increasing the size of the electrical panel/breaker. Note: an electrical permit is required to add additional outlets.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 400.8	Flexible cords (extension cords) are not to be used as a substitute for fixed wiring nor run through or concealed by hole in walls, structural ceilings, suspended ceiling, dropped ceilings of floors: run through doorways, windows or similar openings: attached to building surfaces.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 105.4	Un-permitted work - The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. The building official is authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinances of this jurisdiction. Please note, modifications to the electrical, mechanical, plumbing or building.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 307.1.1	HMIS - Provide a hazardous materials code analysis per IBC Section 307.1.1 and IBC Table 307.1(1) for MAQ of combustible fiber used in drying/processing operations as well as any other hazardous materials used in the growing operations.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 1010	Door operations - Doors shall be readily operable from the egress side without use of a key or special knowledge or effort. Existing locks and latches shall comply with IEBC relative to the hazard category. New door locks and latches shall conform to IBC 1010.1.9.4. All new door hardware shall be accessible.

OUTDOOR STORAGE, DISPENSING AND USE (WHERE PROVIDED)

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6	Outdoor Storage, Dispensing and Use - The outdoor storage, dispensing and use of hazardous materials shall be in accordance with the International Fire Code.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.1	Walls - Walls shall not obstruct more than one side of the structure. <u>Exception</u> : Walls shall be permitted to obstruct portions of multiple sides of the structure, provided that the obstructed area is not greater than 25 percent of the structure's perimeter.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.2	Separation Distance - The distance from the structure to buildings, lot lines, public ways or means of egress to a public way shall be not less than the distance required for an outside hazardous material storage or use area without weather protection.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.6.1.3	Noncombustible Construction - The overhead structure shall be of approved noncombustible construction with a maximum area of 1,500 square feet (140 m2). <u>Exception</u> : The maximum area is permitted to be increased as provided by Section 506.

INFUSED PRODUCTS

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IMC 301.7	Cooking equipment shall be listed and labeled for the use involved.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UPC CH. 10	A grease interceptor shall be provided where require by CH 10 of the Uniform Plumbing Code and the City of Missoula FOG Sector Control Program Appendix 5-B.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 904.2.2 IMC Define IMC Sec 507	Commercial hood and duct system - This section requires an effective suppression system to combat fire on the cooking surfaces of grease-producing appliances and within the hood and exhaust system of a commercial kitchen installation. For additional guidance on the requirements for Type I and II hoods, see the commentary to Section 507 of the IMC. <input type="checkbox"/> IMC 507.2 Type I Hoods - Grease-laden vapors or smoke. Type I hoods shall be installed where cooking appliances produce grease or smoke as a result of the cooking

		<p>process. Type I hoods shall be installed over medium-duty, heavy-duty and extra-heavy-duty cooking appliances. Exception: A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg/m³ or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m³/s) in accordance with UL 710B.</p> <p><input type="checkbox"/> IMC 507.3 Type II Hoods - Fumes, steam, heat and odors. Type II hoods shall be installed above dishwashers and appliances that produce heat or moisture and do not produce grease or smoke as a result of the cooking process, except where the heat and moisture loads from such appliances are incorporated into the HVAC system design or into the design of a separate removal system. Type II hoods shall be installed above all appliances that produce products of combustion and do not produce grease or smoke as a result of the cooking process...</p> <p><input type="checkbox"/> IMC 507.3 Exception (Cont'd) - <u>Spaces containing cooking appliances that do not require Type II hoods shall be provided with exhaust at a rate of 0.70 cfm per square foot (0.00356 m³/(s • m²)).</u> For the purpose of determining the floor area required to be exhausted, each individual appliance that is not required to be installed under a Type II hood shall be considered as occupying not less than 100 square feet (9.3 m²). Such additional square footage shall be provided with exhaust at a rate of 0.70 cfm per square foot [0.00356 m³/(s • m²)).</p> <p>IMC DEFINITIONS</p> <p>COMMERCIAL COOKING APPLIANCES. <i>Appliances used in a commercial food service establishment for heating or cooking food. For the purpose of this definition, a commercial food service establishment is where food is prepared for sale or is prepared on a scale that is by volume and frequency not representative of domestic household cooking.</i></p> <p>COMMERCIAL COOKING RECIRCULATING SYSTEM. Self-contained system consisting of the exhaust hood, the cooking equipment, the filters and the fire suppression system. The system is designed to capture cooking vapors and residues generated from commercial cooking equipment. The system removes contaminants from the exhaust air and recirculates the air to the space from which it was withdrawn.</p> <p>LIGHT-DUTY COOKING APPLIANCE. <i>Light-duty cooking appliances include gas and electric ovens (including standard, bake, roasting, revolving, retherm, convection, combination convection/steamer, countertop conveyORIZED baking/finishing, deck and pastry), electric and gas steam-jacketed kettles, electric and gas pasta cookers, electric and gas compartment steamers (both pressure and atmospheric) and electric and gas cheesemelters.</i></p> <p>MEDIUM-DUTY COOKING APPLIANCE. <i>Medium-duty cooking appliances include electric discrete element ranges (with or without oven), electric and gas hot-top ranges, electric and gas griddles, electric and gas double-sided griddles, electric and gas fryers (including open deep fat fryers, donut fryers, kettle fryers and pressure fryers), electric and gas conveyor pizza ovens, electric and gas tilting skillets (braising pans) and electric and gas rotisseries.</i></p> <p>HEAVY-DUTY COOKING APPLIANCE. <i>Heavy-duty cooking appliances include electric under-fired broilers, electric chain (conveyor) broilers, gas under-fired broilers, gas chain (conveyor) broilers, gas open-burner ranges (with or without oven), electric and gas wok ranges, smokers, smoker ovens, and electric and gas over-fired (upright) broilers and salamanders.</i></p>
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CONTROL AREAS

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.1	General – The provisions of sections 414.1 through 414.6 shall apply to buildings and structures occupied for the manufacturing, processing, dispensing, use or storage of hazardous materials.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.1.3	<p>Information Required - A report shall be submitted to the building official identifying the maximum expected quantities of hazardous materials to be stored, used in a closed system and used in an open system, and subdivided to separately address hazardous material classification categories based on Tables 307.1(1) and 307.1(2). The methods of protection from such hazards, including but not limited to control areas, fire protection systems and Group H occupancies shall be indicated in the report and on the construction documents. The opinion and report shall be prepared by a qualified person, firm or corporation approved by the building official and provided without charge to the enforcing agency.</p> <p>For buildings and structures with an occupancy in Group H, separate floor plans shall be submitted identifying the locations of anticipated contents and processes so as to reflect the nature of each occupied portion of every building and structure.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.2	<p>Control Areas – Control areas shall comply with Sections 414.2.1 through 414.2.5 and the International Fire Code.</p> <p>414.2.1 Construction Requirements - Control areas shall be separated from each other by fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both.</p> <p>414.2.2 Percentage of Maximum Allowable Quantities - The percentage of maximum allowable quantities of hazardous materials per control area permitted at each floor level within a building shall be in accordance with Table 414.2.2.</p> <p>414.2.3 Number - The maximum number of control areas within a building shall be in accordance with Table 414.2.2.</p>

		<p>414.2.4 Fire-Resistance Rating Requirements - The required fire-resistance rating for fire barriers shall be in accordance with Table 414.2.2. The floor assembly of the control area and the construction supporting the floor of the control area shall have a fire-resistance rating of not less than 2 hours. <u>Exception:</u> The floor assembly of the control area and the construction supporting the floor of the control area are allowed to be 1-hour fire-resistance-rated in buildings of Types IIA, IIIA, IV and VA construction, provided that both of the following conditions exist: The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. <u>and</u> the building is three or fewer stories above grade plane.</p> <p><input type="checkbox"/> Reviewed at time of HMIS permit submission (Businesses existing before Jan 1, 2022)</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	IBC 414.3	<p>Ventilation - Rooms, areas or spaces in which explosive, corrosive, combustible, flammable or highly toxic dusts, mists, fumes, vapors or gases are or have the potential to be emitted due to the processing, use, handling or storage of materials shall be mechanically ventilated where required by this code, the International Fire Code or the International Mechanical Code. Emissions generated at workstations shall be confined to the area in which they are generated as specified in the International Fire Code and the International Mechanical Code.</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	IBC 414.4	<p>Hazardous Material Systems - Systems involving hazardous materials shall be suitable for the intended application. Controls shall be designed to prevent materials from entering or leaving process or reaction systems at other than the intended time, rate or path. Automatic controls, where provided, shall be designed to be fail safe.</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Table 716.1[2]	<p>Rated doors - 1hr fire barrier requires 45min doors, 2hr fire barrier requires 90 min doors.</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	IMC 304.4	<p>Prohibited Equipment and Appliance Location - Equipment and appliances having an ignition source shall not be installed in Group H occupancies <u>or</u> control areas where open use, handling or dispensing of combustible, flammable or explosive materials occurs.</p>

CULTIVATION

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IMC 403.2	Required outdoor ventilation air provided.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UPC 602.3	The building shall be equipped with an approved backflow prevention device on the water service line. If you are using a hose or faucet to water the plants, it shall also be equipped with an approved backflow prevention device per UPC 602.3.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 314.15	Provide GFI protected outlets in wet locations. All areas where plants may be watered shall be considered wet locations.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 334.10	Approved wiring methods utilized in grow facilities shall be in accordance with "wiring methods and materials", NEC Chapter 3. NM cable (Romex) is not allowed for use in damp locations like grow facilities.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 110.3	All electrical equipment is to be listed and labeled by an approved testing agency.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 5307.4	<p>Carbon dioxide (CO2) generation/enrichment –</p> <p>5307.4.2 Equipment - Pressure relief, vent piping, fill indicators, fill connections, vent terminations, piping systems and the storage, use and handling of the carbon dioxide shall be in accordance with Chapter 53 and NFPA 55.</p> <p>5307.4.3 Gas Detection System - A gas detection system complying with Section 916 shall be provided in rooms or indoor areas in which the carbon dioxide enrichment process is located, in rooms or indoor areas in which container systems are located, and in other areas where carbon dioxide is expected to accumulate. Carbon dioxide sensors shall be provided within 12 inches (305 mm) of the floor in the area where the gas is expected to accumulate, or leaks are most likely to occur. The system shall be designed as follows:</p> <ol style="list-style-type: none"> 1. Activates a low-level alarm upon detection of a carbon dioxide concentration of 5,000 ppm (9000 mg/m3). 2. Activates a high-level alarm upon detection of a carbon dioxide concentration of 30,000 ppm (54 000 mg/m3). <p>5307.4.4 5307.4.4 Pressurization and ventilation. - Rooms or indoor areas in which carbon dioxide enrichment is provided shall be maintained at a negative pressure in relation to the surrounding areas in the building. A mechanical ventilation system shall be provided in accordance with the <i>International Mechanical Code</i> that complies with all of the following:</p> <ol style="list-style-type: none"> 1. Mechanical ventilation in the room or area shall be at a rate of not less than 1 cfm per square foot [0.00508 m³/(s • m²)]. 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 (305 mm) of the floor. 4. The ventilation system shall discharge to the outdoors in an <i>approved</i> location. <p>5307.4.5 Hazard Signage - Hazard identification signs shall be posted at the entrance to the room and indoor areas where the carbon dioxide enrichment process is located, and at the entrance to the room or indoor area where the carbon dioxide containers are located. The sign shall be not less than 8 inches (200 mm) in width and 6 inches (150 mm) in height and indicate:</p> <p style="text-align: right;">CAUTION — CARBON DIOXIDE GAS</p>

		<p style="text-align: center;">VENTILATE THE AREA BEFORE ENTERING. A HIGH CARBON DIOXIDE (CO₂) GAS CONCENTRATION IN THIS AREA CAN CAUSE ASPHYXIATION.</p> <p>5307.4.6 Seismic and Structural Design - Carbon dioxide system containers and piping shall comply with the seismic design requirements in Chapter 16 of the International Building Code and shall not exceed the floor loading limitation of the building.</p> <p>5307.4.7 Container Refilling - Carbon dioxide containers located indoors shall not be refilled unless filled from a remote connection located outdoors.</p>
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EXTRACTION (WITH SOLVENTS)

YES	NO	N/A	CODE REF.	DESCRIPTION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3901.1	Scope - Plant processing or extraction facilities shall comply with this chapter and the International Building Code. The extraction process includes the act of extraction of the oils and fats by <u>use of a solvent</u> , desolventizing of the raw material, production of the miscella, distillation of the solvent from the miscella and solvent recovery. The use, storage, transfilling and handling of hazardous materials in these facilities shall comply with this chapter, other applicable provisions of this code and the International Building Code.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 414.5	Inside Storage, Dispensing and Use of Hazardous Materials - <i>The inside storage, dispensing and use of hazardous materials shall be in accordance with Sections 414.5.1 through 414.5.3 of this code and the International Fire Code.</i> Quantities are not to exceed what is on the approved HMIS statement.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 500.5 NEC Sec 501	Class 1, Division 1 Extraction Room - Extraction facilities (rooms or areas) shall employ classified wiring methods of <i>Class 1, Division 1</i> as described in NEC 500.5 B1 unless the engineer of record can justify an <i>approved</i> alternative.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IBC 716.2.6	Fire Door Hardware and Closures - Fire door hardware and closures shall be installed on fire door assemblies in accordance with the requirements of IBC Section 716.2.6. 716.2.6.1 Door Closing - Fire doors shall be latching and self- or automatic-closing in accordance with this section. 716.2.6.2 Latch Required - Unless otherwise specifically permitted, single side-hinged swinging fire doors and both leaves of pairs of side-hinged swinging fire doors shall be provided with an active latch bolt that will secure the door when it is closed.
			IBC 716.2.9	Labeled Protective Assemblies - Fire door assemblies shall be labeled by an approved agency. The labels shall comply with NFPA 80 and shall be permanently affixed to the door or frame.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NEC 501.135	Equipment and Appliances used or stored in C1D1 areas shall all be <i>listed</i> for use in C1D1 locations. Penetration collars etc. shall also be listed for use in C1D1 areas.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.2	3903.2 Prohibited Occupancies - Extraction processes utilizing flammable gases or flammable cryogenic fluids shall not be located in any building containing a Group A, E, I or R occupancy.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.3	3903.3 Location - The extraction equipment and extraction processes utilizing hydrocarbon solvents shall be located in a room or area dedicated to extraction.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.4	Post-Process Purification and Winterization - Post-processing and winterization involving the heating or pressurizing of the miscella to other than normal pressure or temperature shall be approved and performed in an appliance listed for such use. Domestic or commercial cooking appliances shall not be used. 3903.4.1 Industrial Ovens - The use of industrial ovens shall comply with Chapter 30.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3903.5	Fume Hood Required - The use of flammable and combustible liquids for liquid extraction processes where the liquid is boiled, distilled or evaporated shall be located within 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. <u>Exception:</u> The use of a heating element not rated for flammable atmospheres, where documentation from the manufacture, or approved testing laboratory indicates the element is rated for heating of flammable liquids. 3903.6 Liquefied Petroleum Gas - Liquefied petroleum gases shall not be released to the atmosphere except where released in accordance with Section 7.3 of NFPA 58.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC 3904.2	Listed 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 <i>not</i> listed, 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 3904.3 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.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	IFC Sec 3905	Gas Detection - For extraction processes utilizing flammable gases as solvents, a continuous gas detection system shall be provided . The gas detection threshold shall be not greater than 25 percent of the lower explosive limit/lower flammability limit (LEL/LFL) of the materials.

		<p>3905.1.1 System Design - 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 percent of the LFL.</p> <p>3905.1.2 Gas Detection System 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.</p> <p>3905.1.3 Operation - Activation of the gas detection system shall result in all the following:</p> <ul style="list-style-type: none"> • Initiation of distinct audible and visual alarm signals in the extraction room. • Deactivation of all heating systems located in the extraction room. • Activation of the mechanical ventilation system, where the system is interlocked with gas detection. <p>3905.1.4 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 initiation of a trouble signal to sound in an approved location.</p> <p>3905.1.5 Interlocks - 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.</p>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	IFC 3905.2	Emergency Shutoff - Extraction processes utilizing gaseous hydrocarbon-based solvents shall be provided with emergency shutoff systems in accordance with Section 5803.1.3.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	NFPA 170	Signage – Provide required signage for hazardous materials present.

F.A.Q's

Q: Would a dispensary-only business need to complete a change-of-use to begin doing solvent-free extraction?

A: Yes, they would need to apply for a commercial building permit and provide us with a report stamped by a licensed professional per IBC 414.1.3 which reviews their process and includes a Hazardous Materials Inventory Statement.

Q: I make infused products and am not required to have a Type 1 or 2 hood. How do I demonstrate compliance?

A: If the engineer designed the HVAC system taking into account the additional heat/ moisture loads and the existing HVAC meets the min kitchen ventilation rate per the IMC 507.3 exception and IMC Table 403.3.1.1 minimum kitchen ventilation rate (footnote b) the applicant can upload a stamped letter from the licensed professional demonstrating compliance to the Commercial Building Permit where the HMIS was uploaded as an 'attachment' and notify the inspector. If the licensed professional indicates any changes are needed for the existing HVAC system to comply, the applicant will need to apply for an additional mechanical permit.

Note: This is a DRAFT copy.
For the most up-to-date checklist visit the City of Missoula Cannabis [webpage](#)
and click 'Checklists and Guides'.