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Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-04: Marijuana Cultivation Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana cultivation facility license and must accompany **Form MJ-01: Marijuana Establishment Operating Plan**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 4** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of the statutes and regulations.

If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.420(2).

What additional information is required for cultivation facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Cultivation plan
- Waste disposal
- Odor control
- Testing procedure and protocols
- Packaging and labeling

This form must be completed and submitted to AMCO's main office before any new or transfer application for a standard marijuana cultivation facility or limited marijuana cultivation facility license will be considered complete.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	North Star Fire, LLC	**MJ License #:**		13479	
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	North Star Fire				
Premises Address:	3780 Leasure Street, Suite 3				
City:	Fairbanks	**State:**	Alaska	**ZIP:**	99701

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Section 2 – Overview of Operations

2.1. Provide an overview of your proposed facility's operations. Include information regarding the flow of marijuana from seed or clone to harvest and transfer from your premises:

All marijuana cultivated at North Star Fire will be tracked via Metrc, from seed or clone, to sale or destruction. All plants that reach eight inches (8") will be tagged and assigned a Metrc tracking number. Marijuana will be harvested and grouped into batches in accordance with current testing regulations. All batches for testing purposes will be one of single strain and will be assigned a Metrc harvest batch number. A harvest batch representative (sample(s)) will be collected from each batch and sent to a licensed testing facility. The remainder of the batch will be segregated in the secured quarantined product area until the testing results are received. A transport manifest generated from Metrc will accompany each transfer of marijuana to another licensed facility. Marijuana will be sealed in containers not exceeding ten (10) pounds and placed inside a locked storage compartment within the vehicle or bed of a truck for wholesale transactions and up to one (1) ounce containers for re-sale by retailers without re-packaging. Package labels will include: (1) the name and license number of the cultivation facility; (2) the date the marijuana was harvested; (3) the harvest batch number assigned to the marijuana; (4) the date the marijuana was packaged; (5) the net weight and quantity of usable marijuana packaged in a standard of measure compatible with the inventory tracking system; (6) a complete list of all pesticides, fungicides, and herbicides used in the cultivation of marijuana. All transfers of marijuana to other licensed facilities will be done in compliance with the state and local regulations and North Star Fire's internal transportation policies. If any marijuana is destroyed for any reason it will be rendered unusable and disposed of in accordance with current AMCO policies.

Section 3 – Prohibitions

Review the requirements under 3 AAC 306.405 and 3 AAC 306.410.

3.1. I certify that the marijuana cultivation facility will not: Initials

a. **sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation;**

b. **allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product on the licensed premises or within 20 feet of the exterior of any building or outdoor cultivation facility; or**

c. **treat or otherwise adulterate marijuana with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana.**

Section 4 – Cultivation Plan

Review the requirements under 3 AAC 306.420 and 3 AAC 306.430.

4.1. Describe the size of the space(s) the marijuana cultivation facility intends to be under cultivation, including dimensions and overall square footage. Provide your calculations below:

North Star Fire's cultivation facility will consist of:

2 - 15'6" x 26' flower rooms = 806 square feet
2 - 8' x 18' clone rooms = 288 square feet
2 - 18' x 31' veg rooms = 1,116 square feet

Total area under cultivation - 2,210 square feet.

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You must be able to certify the statement below. Read the following and then sign your initials in the box to the right: Initials

4.2. The proposed area(s) for cultivation are clearly identified on the Form MJ-02: Premises Diagram that is submitted with this application. BE

Answer "Yes" or "No" to the following question: Yes No

4.3. Will the marijuana cultivation facility include outdoor production? ☐ ☑

If "Yes", describe the outdoor structure(s) or the expanse of open or clear ground and how it is fully-enclosed by a physical barrier:

4.4. Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility, whether indoors or outdoors, cannot be observed by the public from outside the facility:

There will be no windows in North Star Fire's cultivation facility and all cultivation, processing, curing, packaging and labeling tasks will be performed inside the facility. Furthermore, the entire property where the facility is situated is enclosed by a fence. Kirsten will ensure that cultivation areas and storage areas are not visible by the public from any entrance to the facility. Any marijuana that is transported to another licensed facility will be packaged in opaque packaging and moved to the transport vehicle in a discreet manner and within the fenced in property. Any vehicles used by the facility to transport marijuana will be unmarked to give no indication that marijuana is being transported.

4.5. Describe the marijuana cultivation facility's growing medium(s) to be used:

North Star Fire will use a primarily soil-based grow system (peat moss with mycorrhizae) as their growing medium. Additionally, Medium-less processes in aeroponic cloning will be used during the cloning phase.

4.6. Provide the complete product name and EPA registration # (if applicable) for each of the cultivation facility's pesticide and pest control product to be used. All proposed products must be on DEC's list of approved pesticides in the state of Alaska:

North Star Fire does not intend to utilize pesticides in the cultivation of marijuana however, if the need arises, North Star Fire reserves the right to utilize any of the approved for use on cannabis pesticides located on DEC's website at any given time.

4.7. Describe all other fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used at the marijuana cultivation facility:

Fertilizers: BIOCANNA nutrient line which is a 100% organic nutrient developed specifically for cultivation in soil, General Hydroponics nutrient line including Flora Bloom, Flora Micro, Flora Frow, Clonex, and Liquid Cool Bloom or a success kit system which includes; 1 - 5 gal micro, trees, flowers, silica, flame, forest nugs, and bud strength, 1 1L of blast off, 1 1k of game time, Mammoth P, PH up, and PH down to manage PH levels. All organic nutrients.
Delivery system: nutrients will be delivered to plants via the top drip hydroponic system
Chemicals: simple green will be used for general cleaning
Gases: Ambient CO_2 will be utilized by control of titan CO_2 double tank regulator system with shut-off valves, measured and regulated by desktop CO_2 monitor

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4.8. Describe the marijuana cultivation facility's irrigation and waste water systems to be used:

Irrigation will be achieved via an advanced Top-Drip Hydroponic system. In this system, nutrient solutions are mixed with water at predetermined ratios, depending on plant cycle, in central reservoirs located away from the plants. The plants root system is within the soil based growing medium and is fed the nutrient solution via a top-mounted nozzle and feed assembly. System Components include Emitters, Spaghetti Tubing, PVC Tubing, Water Pump, chillers, dosers, meters, air pumps, net pots and trays. Waste water will be captured and either re-circulated through the system or poured down the facility's sewer drain.

Section 5 – Waste Disposal

Review the requirements under 3 AAC 306.740.

You must be able to certify the statement below. Read the following and then sign your initials in the box to the right: Initials

5.1. The marijuana cultivation facility shall give the board at least three days written notice required under 3 AAC 306.740(c) before making marijuana waste unusable and disposing of it.

5.2. Describe how you will store, manage, and dispose of any solid or liquid marijuana waste, including wastewater generated during marijuana cultivation, in compliance with any applicable laws. Include details about the material(s) you will mix with ground marijuana waste and the processes that you will use to make the marijuana waste unusable for any purpose for which it was grown:

North Star Fire's cultivation facility will be disposing of: (1) marijuana that is identified as contaminated, infected or is otherwise rejected for quality or fails to meet quality testing; (2) waste from marijuana flowers and plant material and trimmings; (3) run off water from cultivation and processing; and (4) any other materials or containers in contact with marijuana products that risk contamination. Marijuana waste will be stored away from all other products in a locked container inside the facility, and will be rendered unusable prior to leaving the facility for disposal. A notice will be sent to AMCO enforcement not later than three days prior to rendering waste unusable. Marijuana waste will be rendered unusable by grinding the materials and mixing with other compostable and non-compostable material until the resulting mixture is no more than fifty percent (50%) marijuana waste. The facility will maintain a log on the status of all marijuana waste, tracking the type, date of disposal, date it was rendered unusable, date that it was picked up by the disposal company and the final destination of the waste. This information will be recorded in the disposal log and securely stored as a business record, available to an agent of the MCB upon request, including AMCO Enforcement and the AMCO Director. The final mixture will be securely stored in locked containers located inside the premises with locks in compliance with the highest UL standards. A waste truck will collect the waste mixture and dispose of it at the local waste facility station. Alternatively, North Star Fire will compost the marijuana waste after it has been rendered unusable and the proper notification has been sent to AMCO Enforcement. Only authorized personnel will have access to the keys that unlock the disposal containers.

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Section 6 – Odor Control

Review the requirements under 3 AAC 306.430.

Answer "Yes" or "No" to the following question:	Yes	No
6.1. Have you received an exemption from your local government for the odor control requirement set forth in 3 AAC 306.430(c)(2)?	☐	☑

If "Yes", you must be able to certify the statement below. Read the following and then sign your initials in the box: Initials

I am attaching to this form documentation of my odor control exemption from the local government.

If "No" to question 6.1., describe the odor control method(s) to be used and how the marijuana cultivation facility will ensure that any marijuana at the facility does not emit an odor that is detectable by the public from outside the facility:

Commercial grade activated carbon filters will be used throughout the cultivation areas to filter all air before being vented outside. The carbon filters will be regularly replaced to ensure maximum performance at all times.
Additional odor control methods will be utilized if needed.

Section 7 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465.

You must be able to certify each statement below. Read the following and then sign your initials in the corresponding box: Initials

7.1. I understand and agree that the board or director will, from time to time, require the marijuana cultivation facility to provide samples of the growing medium, soil amendments, fertilizers, crop production aids, pesticides, or water for random compliance checks.

7.2. I will ensure that any individual responsible for collecting random, homogenous samples for required laboratory testing under 3 AAC 306.455 will prepare the necessary accompanying signed statement, provide the signed statement to the marijuana testing facility, and maintain a copy as a business record under 3 AAC 306.755.

7.3. Describe the testing procedures and protocols the marijuana cultivation facility will follow:

All harvested marijuana will be processed into batches of five (5) pounds. A designated North Star Fire employee will collect a testing sample at random from each batch. The individual responsible for collection will prepare a signed statement attesting that each sample was randomly selected, provide a signed statement to the testing facility, and maintain a copy as a business record. The facility will transport all samples to a licensed testing facility in compliance with the state regulations and the company's transportation policies. The facility will ensure that any individual transporting marijuana has a valid marijuana handler permit issued by AMCO. While awaiting the testing results, the remainder of the batch will be segregated in the secured quarantine area. The facility will maintain all testing results as part of its official business records, and will enter the results in METRC. North Star Fire will comply with any request from AMCO for a random sample from any growing medium, soil amendment, fertilizer, crop production aid, pesticide, or water and shall bear the expense for all such requests.

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Section 8 – Packaging and Labeling

Review the requirements under 3 AAC 306.470 and 3 AAC 306.475.

Answer "Yes" or "No" to the following question:	Yes	No
8.1. Will the marijuana cultivation facility be packaging marijuana for a retail marijuana store to sell to a consumer without repackaging?	☑	☐

If "Yes", describe how the marijuana cultivation facility will ensure that the marijuana sold will meet the packaging requirements in 3 AAC 306.470, and provide a sample label that the facility will use to meet the labeling requirements set forth in 3 AAC 306.475:

North Star Fire will package all marijuana in sealed, tamper-evident shipping containers that have a label stating that a licensed testing facility has tested each batch in the shipment, and list: (1) the date of final testing; (2) the cannabinoid potency profile, expressed as a range of percentages that extends from the lowest percentage to the highest percentage of concentration for each cannabinoid listed from every test conducted on that strain of marijuana from the same marijuana cultivation facility within the last three months; (3) a statement listing the results of microbial testing; and (4) a statement listing the contaminants for which the marijuana was tested, including molds, mildew, filth, herbicides, pesticides, fungicides, and harmful chemicals. Any packaging done at the facility will be performed in an area specifically set aside for packaging and monitored with continuous surveillance. Packaging will be uniform with labels secured and prominently displayed. In compliance with the Alaska Weights and Measures Act, the facility will use certified scales and will maintain registration and inspection reports as a business record... (Continued on Page 7)

Answer "Yes" or "No" to the following question:	Yes	No
8.2. Will the marijuana cultivation facility be packaging marijuana in wholesale packages?	☑	☐

If "Yes", describe how the marijuana cultivation facility will ensure that the marijuana sold will meet the packaging requirements in 3 AAC 306.470, and provide a sample label that the facility will use to meet the labeling requirements set forth in 3 AAC 306.475:

Wholesale packages of marijuana will be sold to other licensed facilities in packages up to ten (10) pounds consisting of a single strain or a mixture of strains with all strain names identified on the label. Plastic packaging will be heat sealed without an easy-open tab, dimple, corner, or flap. Packaged marijuana will be stored in a secured area until ready for transport. All packaging will be inspected, accepted or rejected, recorded in the log, and the Licensee or a designated employee will check all final packages to ensure that they will secure marijuana from contamination and not impart toxic or deleterious substances. North Star Fire will also disclose in writing, with each shipment, all soil/medium amendments, fertilizers used, name of testing lab and results of test, and identify any pesticides, herbicides, and/or fungicides that were used in the cultivation of that strain of marijuana. The sealed, tamper-evident shipping container will have a label stating that a licensed testing facility has tested each batch in the shipment, and list:... (Continued on Page 7)

I certify that as a marijuana cultivation facility, I will submit monthly reports to the Department of Revenue and pay the excise tax required under AS 43.61.010 and AS 43.61.020 on all marijuana sold or provided as a sample to a marijuana establishment, as required under 3 AAC 306.480.

I declare under penalty of unsworn falsification that this form, including all accompanying schedules and statements, is true, correct, and complete.

Signature of licensee

Brandon Emmett POA for Kirsten Hagen

Printed name of licensee

STATE OF ALASKA
NOTARY PUBLIC
Marcey Luther
My Commission Ends September 24, 2023

Notary Public in and for the State of Alaska

My commission expires: 9/24/23

Subscribed and sworn to before me this 24 day of June, 2022.

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(Additional Space as Needed):

8.1 Continued: After marijuana is packaged, it will be placed in sanitized, air-tight containers, labeled with all compliant information, and be given a bar code for the inventory control system. Plastic packaging will be heat-sealed without an easy-open tab, dimple, corner, or flap. Packaged marijuana will be stored in a secured area until ready for transport. All packaging will be inspected, accepted or rejected, and recorded in the log. The Licensee or a designated employee will check all final packages to ensure that they will secure marijuana from contamination and not impart toxic or deleterious substances, and that no images that appeal to children, such as cartoons or similar images, are on the packaging. Labels will include: (1) North Star Fire's name and license number; (2) the date the marijuana was harvested; (3) the harvest batch number assigned to the marijuana; (4) the date the marijuana was packaged; (5) the net weight and the quantity of usable marijuana packaged in a standard of measure compatible with the inventory tracking system; (6) a complete list of all pesticides, fungicides, and herbicides used in the cultivation of the marijuana. All marijuana shipped to a retailer will not exceed one (1) ounce for resale to consumers without additional handling by the retail marijuana store. A space will be left on all packaging for the retail store to add their own name/logo and license number.

8.2 Continued: (1) the date of final testing; (2) the cannabinoid potency profile, expressed as a range of percentages that extends from the lowest percentage to highest percentage of concentration for each cannabinoid listed from every test conducted on that strain of marijuana from the same marijuana cultivation facility within the last three months; (3) a statement listing the results of microbial testing; and (4) a statement listing the contaminants for which the marijuana was tested, including molds, mildew, filth, herbicides, pesticides, fungicides, and harmful chemicals. Any packaging done at the facility will be performed in an area specifically set aside for packaging and monitored with 24-hour surveillance.

Business Name: North Star Fire
License Number: 13479
Batch/Lot Number:
Gross Weight: Net MJ Weight:
Packaging Date: Best By Date:
Strain:
Tested By: License Number:
Total THC: THCA: CBD: CBDA: CBN:
Microbial Test:
Fungicides: Herbicides: Fertilizers:
Soil Amendments:

NORTH STAR FIRE

Alaska Safety Warning: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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