Alcohol and Marijuana Control Office
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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:	Arctic Hydroponics, LLC	**MJ License #:**	19279		
License Type:	Standard Marijuana Cultivation				
Doing Business As:	Arctic Hydroponics, LLC				
Premises Address:	47256 South Brookestar's Circle, Suite A				
City:	Willow	**State:**	Alaska	**ZIP:**	99688

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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:

Seed banks will be organized into strain-specific packages and will be tracked by and through METRC in their assigned packaged tag until unpackaged and planted. Clones and seedlings will be segregated into strain specific groups within METRC. We will use clone charts, clone maps, and-or other internal procedures to ensure accountability and tracking of clones and seedlings. Once clones have reached eight inches in height, they will be assigned individual plant ID tags within METRC and their growth phase will be changed to vegetative. All vegetative plants will be assigned individual plant tags which will be used to track them to through harvest. When a plant changes physical location (i.e., different grow rooms) or growth phases, it will be tracked through plant logs and-or other internal tracking and communication documents and will be updated in METRC. When the plants are harvested, strain specific harvest batches will be made from plants harvested on the same day. A representative sample from each harvest batch will be submitted for testing. We will further select homogeneous sample from our cultivation facility for random testing during our growing cycles in order to insure the highest of quality of standards are met. After testing results are received, packages will be made to fulfill orders, which will be tracked as they are transferred from our facility. Marijuana will be packaged in a variety of ways. Batches of 1.0 grams packs may be produced as well as 1/8 oz and 1/4 oz and up to one oz packages. All labeling on packaging will meet the standards as required for cultivators. The shipment will be accompanied by the appropriate manifest and will be verified by the licensee or designated agent before the shipment is permitted to leave.

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;** [illegible]

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** [illegible]

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.** [illegible]

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:

The overall square footage of the facility is approximately 3760. There is a main building, two conexs turned into outbuildings, and two high tunnel greenhouses. The main building size is 44.5 X 84.5 with Veg/dry room (1-8X14=112 sq.ft.), Veg/dry room (2-10X10=100 sq ft.), Veg/Bloom room (3-20'X44.5'=890 SQ.ft.), and bloom room (3-37.5X44.5=1668 SQ ft.
There are two greenhouses at 30X100=3000 X 2=6000 SQ ft.
The total area of veg and bloom are approximately 9410 SQ feet overall.

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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. [KC]

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:

All cultivation activities at this facility will occur indoors, within shipping containers that have been converted into cultivation rooms. A main building also exists where marijuana may be stored. All marijuana will be blocked from public viewing as there are no windows on the building or shipping containers. Marijuana will be moved from the shipping containers to the main building, but this will also be blocked from public view by a fence that surrounds the entire licensed premises. The fence will be at least 6-feet high and solid, constructed out of wood and metal (steel posts, solid wood panels, and covered with roofing metal) to prevent any view through the fence to the grounds of the facility.

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

Hydroponics as well as soils bought and composted on site will be used. Cocoa coir will be the medium for hydroponic growing. Potting soils may consist of sphagnum, peat moss, cocoa coir, composted bark, dolomitic limestone, and perlite for drainage. Other similar materials may be used.

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:

The following pest control products may be used:
Bonide Diatomaceous Earth Crawling Insect Killer (#73729-1-4)
70% Neem Oil (#70051-2-54705)

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

Arctic Hydroponics, LLC will use various nutrients to including: General Hydroponics, Canna, Advanced Nutrients, Heavy Nutrients, and other similar products. Various type of rooting solutions such as Clonex Rooting Gel, Growth XL, Woods Rooting Compound and Hormex Rooting Compound will be used to help marijuana plant cuttings to start rooting. Arctic Hydroponics will also be using propane gas-fired CO_2 generators and compressed CO_2 gas tanks.

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

All watering operations pellets, potting soil, coca coir and rock wool medium-based grows will be by hand via a pumped nutrient solution from a mixing/storage tank. Runoff will be minimal but collected in a reservoir located in each room and either disposed of per DEC regulation or treated and reused. All watering operations in rock wool/coca coir-based media grows will recirculate till its replaced, at which time the waste will be disposed of per DEC regulation. Normal evaporation will occur. Any additional waste water that may exist will be collected and disposed of in accordance hazardous waste produced will be disposed of at the Hazardous Waste Collection Center (HWCC) located at the valley regional land fill. Since this cultivation will be producing < 220 pounds of hazardous waste per month, they are classified as a Conditionally Exempt Small Quantity Generator (CESQG). They will be disposed of at the local landfill as set forth above pursuant to their regulations or reused again.

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. JE

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:

Marijuana waste will be stored in a refuge collection container(s) within the licensed facility grow area. When the time comes for disposal, after giving AMCO at least three days written notice before rendering the marijuana unusable and disposing of it, all marijuana waste will be ground and mixed with paper, food waste, or other products in order to produce a 50/50 ratio and made unusable. Once this is done the material will be disposed of via the local landfill, but again only after giving AMCO three days written notice of intent.

Runoff will be minimal but collected in a reservoir and either disposed of per DEC regulation or treated and reused and normal evaporation will occur as well. All watering operations in pellet- and rock wool medium-based grows will recirculate within the unit until it is replaced, at which time the waste water ill be disposed of per DEC regulation.

Any additional waste water that may exist will be collected and disposed of in accordance with regulations. Hazardous waste produced will be disposed of at the Hazardous Waste Collection Center (HWCC) located at the Valley Regional Landfill. Since this cultivation will be producing < 220 pounds of hazardous waste per month, they are classified as a Conditionally Exempt Small Quantity Generator (CESQG). They will be disposed of at the local landfill as set forth above pursuant to their regulations or reused again.

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:

Canister style, activated carbon filters will be utilized in conjunction with ducted fans within the proposed cultivation facility to prevent any marijuana odor from being detected by the public. This will keep all smell/odor from being detected outside of the facility. Ozone generators may also be used if determined to be necessary. This facility has no buildings or homes within 1 square mile.

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.	KC
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.	KC

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

Upon notification that the board or the director require samples for random compliance checks of the proposed facility, a licensee or an authorized agent of the proposed facility will notify and independent testing laboratory to send a representative to collect the required samples. This way a chain of custody is established, and the possibility of unintentional contamination due to improper sample collection practices is minimized.

All marijuana product batches will be tested for a battery of state required impurities and/or contaminants by a state licensed lab in accordance with 3 ACC 306.455. The facility will collect random samples from homogeneous batches of individual strains of bud or flower in the amount required by the selected testing facility. the marijuana will be segregated and quarantined in up to five (5) pound lots and kept there until the testing has been completed and the marijuana has been cleared and pass the lab.

We will further select homogeneous samples from our cultivation facility for random testing during our growing cycles in order to ensure the highest of quality of standards are met.

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:

Marijuana will be packaged in a variety of ways. Batches of 1.0 gram packs may be produced as well as 1/8oz, 1/4 oz and up to 1 oz packages. All labeling on all packaging will meet the standards as required for cultivators. All marijuana slated to leave the facility will be placed into a durable, tamper-resistant packaging prior to transport. The shipment will be accompanied by the appropriate manifest and will be verified by the licensee or designated agent before the shipment is permitted to leave.

In accordance with 3ACC 306.470, when we are packaging the marijuana, we will either place in a package of 1ounce or less, in approved packaging for the retail store to sell directly to consumers in accordance with 3 ACC 306.475 the packaging shall have the required warning 5 statements to be on the packaging.

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:

After marijuana has been harvested and processed, a sample will be taken from each batch and sent for testing. While results are pending, the batch will be quarantined until it is deemed acceptable and passed by the testing facility. Marijuana will be packaged in up to 5 pounds wholesale packages for retail marijuana stores or in packages of up to one ounce for resale to consumers without repackaging. All labeling on all packaging will meet the standards as required for cultivators including those identified in 3 AAC 306.470 and 3 AAC 306.475.

AMCO
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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

Kenneth Champ
Printed name of licensee

OFFICIAL SEAL
Kayley Clinch
Notary Public-State of Alaska
My Comm. Expires 07/08/2024

Kayley Clinch
Notary Public in and for the State of Alaska

My commission expires: 07/08/2024

Subscribed and sworn to before me this 30 day of November, 2021

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(Additional Space as Needed):