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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:	Johnny Dae Farms, LLC.	**MJ License #:**		21092	
License Type:	Limited Cultivation Facility				
Doing Business As:	Johnny Dae Farms, LLC.				
Premises Address:	59913 S. Airpark Place.				
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:

Johnny Dae Farms LLC. sets out to be one of the top connoisseur growers in Alaska. We aim to achieve this by employing industry leading standards, breeding top shelf genetics, and keeping the cleanest environment possible. Week 1:Any and all seedling or clones will be cultivated using an aeroponic cloner, clones will be taken at a rate to supply each section of the flower room + 15%. Clones with healthy root systems will then be transplanted into Rockwool cubes, any failed clones will be discard in a manner consistent with 3 AAC 306.740. Each successful seedling/clone will be fed at a concentration no greater than 800 ppm. Week 2: At this point any and all healthy clones will have reached 8 inches, each successful clone will receive A METRC tag and entered into the METRC system. Week 3: Plants will be kept in the vegetative room where they will be groomed and trained for their future environment. During this time plants will be fed at a concentration no greater than 900 ppm. End of week 4: At this point plants will be transferred into the flower room. All transferred plants will be logged into the METRC system, any failed or unneeded plants will be destroyed, discarded in a manner consistent with 3 AAC 306.740, and logged into the METRC system. Weeks 5-12: All plants will remain in the flower room until harvest and will be fed at a concentration of no greater than 1200 ppm. Once a plant is harvested it will be weighed, all wet weights will be entered into METRC. Plants will be cut down To be hung. Any and all Waste will be weighed and recorded in METRC. All waste will be kept on site for a minimum of three days and destroyed in a manner consistent with 3 AAC 306.740. Once product is finished drying random samples will be taken in a manner consistent with 3 AAC 306.455. All product will be weighed, segregated, and stored until test results are received. All finished and tested product will be weighed and entered into METRC. (Continued in Additional space)

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;** DH

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** DH

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.** DH

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:

Total cultivation space as defined by available tray space.
Vegetative growth: 7, 3'6' tables = 126 Square feet
Vegetative cloner: 4, 1'x1' Cloners = 4 Square feet
Flowering growth: 9, 8'x4' tables(288sf) + 5, 4'x4' tables (80sf) =360 square feet
Total = 498 Square feet
This space is further defined in the attached Premises Diagram.

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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. DH

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:

The proposed building has no windows. Furthermore the entrance's direct view into the cultivation is obstructed by the bathroom entrance, as depicted in attached premises diagram . The dry/cure, flower and vegetative rooms will be located at the back of the facility behind closed windowless doors, that will be closed at all times. all trimming and packaging will be done on the eastern most wall of the processing room, as depicted.

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

Johnny Dae Farms, LLC. will be using Grodan Rockwool cubes. Rockwool is also known as mineral wool or stone wool is a type of medium made from actual stone. Rockwool is one of the most efficient, and popular medias on the cultivation market. Through proper feeding times, intensities, and natural flushing agents, Rockwool produces little to no Actual waste water. Its microscopic structure is hostile to the larva and eggs of problematic pests. This helps the grower to use fewer pest management product such as harmful pesticides.

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

Johnny Dae Farms, LLC. will strive to use as little, and as natural pest management products as possible. Regalia, Bio fungicide EPA # 84059-3; Safer Brand, concentrate EPA # 42697-60; Azamax, insecticide EPA # 71908-1-81268.

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

For nutrients Johnny Dae Farms, LLC. will be using a primarily Advanced Nutrients lineup. But will also be practicing with Veg +Bloom. The Advanced Nutrients lineup will be Advanced Nutrients, Rhino Skin (silicon dioxide); Advanced Nutrients, Overdrive (P/K booster) Advanced Nutrients, B-52 (b vitamins); Advanced Nutrients, Sensi-Grow parts A and B (vegetative growth); Advanced Nutrients, Sensi-Cal (calcium/magnesium); Advanced Nutrients, Carboload (glucose booster); Advanced Nutrients, Bud Ignitor (Flower booster); Advanced Nutrients, Bud Candy (glucose booster); Advanced Nutrients, Mother Earth (foliage booster); Advanced Nutrients, P.H Down (P.H management), SLF 100 (media cleanser); Canna, Rhizotonic (root booster); Botanicare, Cal-Mag (calcium/ magnesium); CloneX, Rooting Gel (rooting hormone); Clonex, Clone Solution (cloning nutrients); Clear-Rez (reservoir cleanser). (Continued in additional space).

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

Johnny Dae Farms LLC. Will be employing a simple drip irrigation using Octa-Bubbler manifolds. There will be three self-contained systems, on separate timers. The Manifolds flow will be powered by a stainless steel submersible pump. With Even water distribution, nutrient balance, and proper feeding times Rockwool can be dialed in to produce zero waste water. This is achieved by monitoring the amount of water a plant drinks and times it feeds. By never letting the moisture content of the Rockwoll exceed 80% and proper flushing agents such as SLF100, nutrient waste water is eliminated.

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. DH

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:

Johnny Dae Farms LLC. Will be Disposing of: (1) marijuana stalks, stems, or leaf from grooming. (2) marijuana Stalks, stems, and leaf waste from harvesting. (3) marijuana that is infected, contaminated or deemed to be unusable by the licensee (4) Any marijuana that has failed testing. Any marijuana waste will be collected in red heavy duty bags. Any and all marijuana waste will be weighed, dated, and entered into the METRC tracking system. Email notice will be sent to AMCO 3 days prior to destruction. A log of all marijuana weights, types, and origin will be maintained at all times. Any and all solid, liquid, or contaminated materials will be disposed of in a manner consistent with federal, state, or local laws. Any and all plant waste generated will be ground up using a mulcher or small wood chipper. To render the product unusable any plant waste will be ground up along with the "fiberglass" Rockwool cubes the plants were grown in. This will ensure that any and all plant waste will be covered in fiberglass rendering it unusable and almost untouchable. This will be done at a 50/50 plant to Rockwool/ garbage ratio. Considering the compressed nature of Rockwool the volume of a cube is dramatically increased when shredded. All destroyed and diluted marijuana waste will be re-bagged and dated. Each bag will be recorded before its final departure to a local waste station. Any and all marijuana waste final location will be reported in the METRC tracking system. Johnny Dae Farms LLC. Will make best efforts to produce zero waste water. This is achieved by monitoring the amount of water a plant drinks and times it feeds. With Even water distribution, nutrient balance, and proper feeding times Rockwool can be dialed in to have zero waste water. By never letting the moisture content of the Rockwoll exceed 80% and proper flushing agents nutrient waste water is eliminated. If any waste water is generated, it will be collected via 5 gallon buckets, stored in a 55 gallon plastic barrel, and dumped at a local gray water station.

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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. [illegible]

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:

Johnny Dae Farms LLC. will be using a self-contained closed air environment. This method requires no exchange with outside air. By utilizing heat pump technology, co2 enrichment, and the plants producing oxygen, the growing environment has no need for outside air exchange. Johnny Dea Farms LLC. will also be using active carbon filtration via 2 Air Box 2's and 2 315 CFM HyperFans. One fan will be pulling air from the flower room to the vegetative room, and the other pulling air from the vegetative room to the flower room. This air exchange will be done at a rate of 630 CFM. This air exchanged along with constant air movement via greenhouse fans will ensure the entire cubic footage of air will be cycled every 20 minutes. An additional 4 inch fan and Carbon filter will be mounted in the sealed dry/cure room cycling the air every 5 minutes. All filters will be changed in a manner consistent with the manufactures guidelines

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. [illegible]

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. [illegible]

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

Johnny Dae Farms LLC. will be will be appointing a single individual to collect and manage all testing samples. Additional training will be provided to this individual to ensure their familiarity for the regulations set forth by the board. It will be this individuals sole responsibility to take a representative, homogenous sample from each harvest batch. Testing samples will be collected from each harvest batch at a rate consistent with the table depicted in 3 AAC 306.455. Once the sample are collected the appointed individual will sign a form stating that any and all test samples were collected in a manner consistent with all regulation outlined in 3 AAC 306.455. A copy of this form will be made and provided to the testing facility receiving the samples. The original will be filled along with all corresponding test results. These forms will be made available to the board upon request. Once Each test sample is collected from a harvest batch the batch will be bagged and stored in sealed 5 gallon food grade buckets. Each bucket will receive a red tag with the batch number, indicating it is quarantined until testing results are received. All quarantined product will be stored in the locked dry/cure room. All test results will be reflected on product packaging.

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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:

Johnny Dae Farms, LLC. will be packaging the majority of its product for retail sale. No product packaged for retail sale shall exceed one ounce. The Transport manifest will remain with the product being shipped at all times. Each individual package will be heat sealed and receive a label containing the following; front face: Company logo, company name, and net weight. Back side: strain name, batch number, total THC. total cannabinoids, net weight, product type, total terpenes, METRC lot number, microbial testing results, manufacturing license number, contaminants test result, and microbial testing results. All packaged product label will contain the following statement; WARNING: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgement. 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.

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:

Each wholesale package will contain no more than five pounds of cannabis flower. The transport manifest will remain with the product being shipped at all times. Each package will be labeled with all pertinent info, cultivators name, license number, METRC LOT number, net weight of packaged contents, a full cannabinoid profile, any test results performed on the strain from the last three months, microbial test results, any pesticides, fungicides, herbicides, contaminants, mold, mildew, or filth. This package will be placed inside the second bag along with the METRC transport manifest, METRC LOT# tag, and statements of any microbial testing, or any further contaminant test performed on the strain such as mold, mildew, filth, herbicides fungicides, pesticides, or any other contaminant. See attached document Johnny Dae Farms LLC. Labeling Design for example.

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.

Dotty Hamack
Signature of licensee

Dotty Hammack
Printed name of licensee

OFFICIAL SEAL
Tawnya M. McCracken
Notary Public-State of Alaska
My Comm. Expires 11/15/2020

Tawnya M McCracken
Notary Public in and for the State of Alaska

My commission expires: 11/15/2020

Subscribed and sworn to before me this 27th day of June, 2019.

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(Additional Space as Needed):

Answer 2.1 continued- . Upon sale or transfer of marijuana or marijuana products a transport manifest will be generated via the METRC system, this manifest will be sealed inside each heat shrink tamper apparent packaging and locked into a heavy duty locked tote. Contents of tote will not exceed 5 pounds, a manifest will be generated for every 5 pounds. Once the transfer is made a copy of the manifest will be signed as received by it's recipient. All final sales will be logged into the METRC tracking system and a hard copy of the signed manifest will be filled into business sales records.

Answer 4.7 continued- Johnny Dae Farms, LLC. will be using Co2 enrichment. Co2 System to be used will be Blueprint clean burning Co2 generators. These will be continuously monitored by a Blueprint Digital Co2 Controller At a Concertation no Greater than 2000 PPM. To Further Monitor The Concentration of Carbon Dioxide Throughout the Facility for safety measures. There will be 2 alarmed monitors one located in the processing room and one in the office.

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Johnny Dae Farms

ALASKAN GROWN TOP SHELF CANNABIS

Quality Strains, Properly Cured, For The Finest Smoke.

MJ License #: 21092

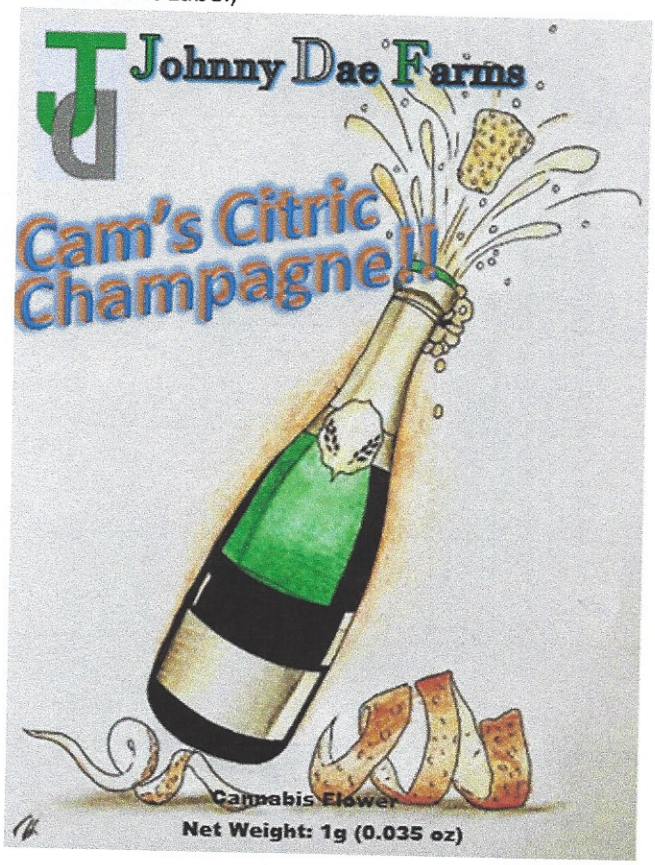
Advertisement, Logo, And Labeling Examples:

Logo:

The logo will be featured in several colors but the layout will remain the same.

Labeling Example:

Retail Front Label;



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ALASKAN GROWN TOP SHELF CANNABIS

Quality Strains, Properly Cured, For The Finest Smoke.

MJ License #: 21092

Advertisement, Logo, And Labeling Examples:

Retail Rear Label;

Cultivated By: Johnny Dae Farms LLC.

Strain:	**N/A**	**Batch #:**	**N/A**
METRC Lot #:	**N/A**	**License #:**	**N/A**
Total THC:	**N/A**	**Total Cannabinoids:**	**N/A**
Total Terpenes:	**N/A**	**Contaminants Test:**	**N/A**
Microbial Test:	**N/A**	**Contents: Cannabis Flower**	
Net Weight:	**N/A**		

WARNING: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgement. 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.

Wholesale Label;

Cultivated By: Johnny Dae Farms LLC.

Strain:	**N/A**	**Batch #:**	**N/A**
METRC Lot #:	**N/A**	**License #:**	**N/A**
Total THC:	**N/A**	**Total Cannabinoids:**	**N/A**
Total Terpenes:	**N/A**	**Contaminants Test:**	**N/A**
Microbial Test:	**N/A**	**Contents: Cannabis Flower**	
Net Weight:	**N/A**	**Mold/Mildew/Filth:**	**N/A**
Previous Testing Results:	**N/A**		

WARNING: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgement. 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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