Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

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 the **Marijuana Establishment Operating Plan (Form MJ-01)**, 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 those 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
- Odor control
- Testing procedure and protocols
- Security

This form must be submitted to AMCO's main office before any marijuana cultivation facility license application will be considered complete.

Section 1 – Establishment Information

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

Licensee:	SE Moog Droog LLC	**License Number:**	10814		
License Type:	Limited Marijuana Cultivation Facility				
Doing Business As:	SE Moog Droog LLC				
Premises Address:	Lot 13D Jeff Berg Subdivision				
City:	Petersburg	**State:**	ALASKA	**ZIP:**	99833

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Section 2 – Prohibitions

Applicants should review 3 AAC 306.405 – 3 AAC 306.410 and be able to answer "Agree" to all items below.

The marijuana cultivation facility will not:	Agree	Disagree
Sell, distribute, or transfer any marijuana or marijuana product to a consumer, with or without compensation	■	☐
Allow any person, including a licensee, employee, or agent, to consume marijuana or marijuana product on its licenses premises or within 20 feet of the exterior of any building or outdoor cultivation facility	■	☐
Treat or otherwise adulterate marijuna with any organic or nonorganic chemical or compound to alter the color, appearance, weight, or odor of the marijuana	■	☐

Section 3 – Cultivation Plan

Review the requirements under 3 AAC 306.420, and identify how the proposed premises will meet the listed requirements.

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:

There will be two rooms under cultivation at our facility.

The first room will be used for vegetation, cloning, and as a mother room. The room dimensions are 6ft x 24ft or 144 square feet. The actual canopy space is approximately 4ft x 20ft or 80 square feet. The additional 64 square feet will be walkway to access the plants and electrical panels.

The second room will be the flower room. The flower room dimensions are 20ft x 24ft or 480 square feet but the actual cultivation area will be limited to an 18ft x 20 ft space or 360 square feet. The plants and hydroponic modules will be tightly contained within this canopy space using tomato style cages and netting. The remaining 120 sq ft of space will be dedicated to walkways for access to plants and space for hydroponic equipment such as reservoirs, water chillers, dehumidifiers etc..

Veg Rm Canopy Space = 8o Sq Ft

Flower Rm Canopy Space = 360 Sq. Ft.

Total Canopy Space = 440 Sq. Ft.

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

This facility will be using a hydroponic method for growing marijuana. The type of hydroponic system is called Recirculating Deep Water Culture or RDWC. There will be no soil grow medium, however the net pots will use either hydroton clay pellets or grow stones for root support. Hydroton are small round balls of clay, and grow stones are recycled glass reformed into porous rocks.

Mother plants will use a super soil mixture such as Botanicare Slacker Moisture which contains these ingredients; CocoGro® High Pith Coconut Coir, Hydrolite® (Silica Based Rock), Rice Hulls, Perlite, Compost, Earthworm Castings, Bat Guano, Alfalfa Meal, Montmorillonite, Seaweed, Yucca Extract, Humic Acid, Trichoderma Fungi.

Describe the marijuana cultivation facility's fertilizers, chemicals, gases, and delivery systems, including carbon dioxide management, to be used:

Cultured Solutions will be the brand of nutrients used at our facility. This is the list of products by Cultured Solutions that we plan to use ; Veg A, Veg B, Bloom A, Bloom B, UC Roots, Bud Booster Early, Bud Booster Mid, Bud Booster Late. A biofungicide "Mycostop" will be used to prevent wilt and root diseases. Calcium and Magnesium minerals will be added using General Hydroponics CaMg product to the reverse osmosis filtered rainwater. For PH adjustments General Hydroponics "PH Up Liquid" and "PH Down" Liquid. For Cloning; Clonex Gel by Hydrodynamics International.

Mother plants will use Vegamatrix Brand Nutrients. Vegamatrix Grow, Bloom, Boost, Prime Zyme, Amp it and Hard N Quick as a foliar.

For cleaning between harvests, a water and Clorox Regular Bleach solution will be used to clean the room and all equipment. CO2 supplementation will be used during light cycles, and will be distributed by an 4 burner CO2 generators. The generators will use propane as its fuel source.

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

Water for our hydroponic system will be gathered through a rainwater cachement system. The rainwater will be collected in 300 gallon IBC totes. Prior to use, the water will go through reverse osmosis (RO) filtration and stored in IBC totes until ready for use. Wastewater will be drained/pumped into empty IBC totes and transported to the wastewater treatment facility in Petersburg.

As this system is hydroponic, the plant roots will soak in an aerated nutrient solution all the time. The water and nutrients are continually pumped and recirculated throughout the entire system with a central reservoir for nutrient dosing, water top off and additional aeration. A water chiller will also be used at the reservoir to keep the water at optimal temperature.

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Describe the marijuana cultivation facility's waste disposal arrangements:

Wastewater will be drained and collected in 300 gallon IBC totes. The totes will be transported by truck to the Petersburg Wastewater treatment facility, where they'll be drained and treated by the municipal water treatment system. A log book will be kept with disposal records and receipts from the Petersburg Wastewater Facility.

Section 4 – Odor Control

Review the requirements under 3 AAC 306.430, and identify how the proposed premises will meet the listed requirement.

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:

This cultivation facility will be sealed from the outside environment. No odors from the inside can escape to the outside. This is achieved by sealing every seam, bolt, and wall penetration, using an expanding spray foam. Next a 6" insulation with vapor barrier on both sides will be installed with each seam being taped to further seal the interior. The cooling system will involve multiple AC Units that do not vent air but use heat exchangers to remove heat. No outside air enters and no inside air exits.

Inside there will be two 12" diameter in-line fans connected to two - 12" diameter by 48" long carbon filters. These filters will continuously scrub the air of airborne contaminants and odor at a rate of 3400cfm.

This method has many benefits; It minimizes pest and plant diseases from entering the facility, it significantly reduces CO2 losses, humidity is easier to maintain, and it eliminates odors from escaping the facility.

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Section 5 – Testing Procedure and Protocols

Review the requirements under 3 AAC 306.455 and 3 AAC 306.465, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the item below.

I understand and agree that:	Agree	Disagree
The board will or the director shall 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	■	☐

Describe the testing procedure and protocols the marijuana cultivation facility will follow:

Once a flowering marijuana plant's buds have ripened to the appropriate degree of maturity the plant will be cut down, the leaves will be trimmed, and the plants hung for a period of approximately 7 days to dry. Once the drying process is complete the marijuana buds and flowers shall be separated into harvest batches of unique strains. Next a designated individual employed by the cultivation facility will collect samples from each harvest batch to prepare for transportation to a testing facility in a quantity dictated by the testing facility. This individual shall select a random sample from each harvest batch, package it and label it using the marijuana inventory system that identifies the strain and describes harvest batch identification information.

All samples will then be placed in a vacuum sealed package and placed in a appropriately sized pelican box for transportation to a testing facility. The designated individual will prepare a signed statement indicating each sample has been randomly selected. A copy of the signed statement shall be retained, and another copy shall be placed with the samples. A transport manifest shall be generated from the marijuana inventory system. The manifest will be kept with the marijuana at all times during transportation. The manifest shall include the following information:

1. The type of marijuana being transported
2. The name of the transporter
3. The amount and weight of marijuana being transported
4. The time of departure and expected delivery date
5. The make, model and license plate number of the transporting vehicle

As the samples are being transported to the testing facility the rest of the harvest batch shall remain in the curing room for the purpose of maintaining potency and preventing contamination until test results are received. Once the cultivation facility receives the test results they shall be entered in the marijuana tracking system, labels with testing information shall be printed and affixed to the containers holding the harvest batches, and then the harvest batches can continue through the process of being brought to market through a retail or manufacturing facility.

SE Moog Droog LLC is located on Mitkof island in Southeast Alaska. It's assumed that travel by boat/ferry or aircraft shall be necessary in order to transport marijuana for testing and sale. The United States Postal Service is the intended transportation method for testing.

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Section 6 – Security

Review the requirements under 3 AAC 306.430 and 3 AAC 306.470 – 3 AAC 306.475, and identify how the proposed premises will meet the listed requirements.

Applicants should be able to answer "Agree" to the two items below.

The marijuana cultivation facility applicant has:	Agree	Disagree
Read and understands and agrees to the packaging of marijuana requirements under 3 AAC 306.470	☒	☐
Read and understands and agrees to the labeling of marijuana requirements under 3 AAC 306.475	☒	☐

Restricted Access Area (3 AAC 306.430):

	Yes	No
Will the marijuana cultivation facility include outdoor production?	☐	☒

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

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Describe the method(s) used to ensure that any marijuana at the marijuana cultivation facility cannot be observed by the public from outside the facility:

All marijuana plants are located indoors. The building used for the cultivation facility has no windows. There's only one entry to the building. The only way to see a plant requires entering the facility. The facility is designed to keep unauthorized people out. The facility is located on private property and the only access is by a private dead end driveway.

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 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 perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Signature of licensee

Gary J. Morgan
Printed name

ELIZABETH AMANECER
NOTARY PUBLIC
MY COMMISSION EXPIRES September 21, 2019
STATE OF ALASKA

Subscribed and sworn to before me this 18th day of August, 2016.

Elizabeth

Notary Public in and for the State of Alaska.

My commission expires: 9-21-19

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(Additional Space as Needed):