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:	Alaska Harvest Company LLC	**License Number:**	11214		
License Type:	Standard Marijuana Cultivation Facility				
Doing Business As:	Alaska Harvest Company				
Premises Address:	24900 Orion Street Unit B				
City:	Kasilof	**State:**	ALASKA	**ZIP:**	99610

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STATE OF ALASKA

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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:

1. Veg Room - 20' X 18' = 360 SF
2. Bud / Flower Room - 46' X 40' = 1840 SF
3. Veg/ Dry Process - 18' X 18' = 324 SF

2524 SF Cultivation totals

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

Alaska Harvest Company expects to cultivate with both soil and hydroponics as industry technology dictates best propagation and cultivation practices. Cannabis clones and seeds will be propagated in either soils or horticultural rock wool growing medium,made from natural ingredients of Basalt rock and Chalk heated and spun into a fibrous material that is molded into various sizes that are idea for a hydroponic vegetation medium. Once propagated clone and seed plants will be transplanted into a mixture of rock wool ,and expanded white glass grow stones or soil planting medium.

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

Alaska Harvest Company will utilize "Advanced Nutrients" products to provide nutrients to plants in all stages of cultivation. Nutrients B, N, Mg, P, S, Ci,. K, Ca, Mn, Fe, Cu, Zn and Mo are provided for hydroponic cultivation along with Super Thrive a concentrated non-toxic vitamin solution for plants. Typically there is no difference in fertilizer components when growing in soils or hydroponics, only application of the fertilizer to the medium used. Plants grown in soil will be hand watered. There is no carbon dioxide system planned for the facility at this time.

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

Individual reservoir tanks will be set up in the Veg and Grow Rooms to feed plants located on flood plane tables. Pumps will transfer feed water to the plants through irrigation tubing. The flood plane tables will capture, strain and drain back excess water to the reservoir tanks. As PH levels and nutrient/water is depleted the reservoir tanks will be replaced with water and nutrients as needed. It is estimated that no more that 7-100 gal. reservoir tanks filled to 80% capacity will be utilized in the operation. It is expected that the facility during peak production will utilize approximately 36,500 gal of fresh water per year. Average daily water usage will be approximately 100 gallons per day. 90% of this water usage will be dispersed through transpiration, evaporation, and dehumidification. This waste water is essentially distilled and would not need storage or pose a health risk. The other 10% would be composed of 5% fresh clean flush water that could be dispersed topically for landscaping and general lawn use. The remaining 5% of liquid waste consisting of low levels of added minerals could also be used on site for landscaping and gardening uses. The facility sets on approximately 4 acres of underdevelopment property that could utilize some percentage of the waste as an agriculture benefit. Any or all of this 10% of waste fluid that could not be disposed of in an agriculture logic, due to winter conditions or other conditions prohibiting dispersing will be stored in a holding tank on site and disposed of by use of an on site commercial mechanical water evaporator. We expect to generate approximately 4000 gallons of waste water total per year. About 11 gal per day. No water waste will be disposed of through the Septic System. The utility sinks in the facility will be plumbed to a under sink sump pump to be drained to the same holding tanks to assist with dilution and prevent any feed water from being introduced into the septic system. All soil cultivation will be hand watered/fed and excess water captured and disposed of in the same manner as the hydroponic methods described.

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Describe the marijuana cultivation facility's waste disposal arrangements:

1. Where appropriate waste feed and flush water will be applied to landscaping on premise.
2. Where not appropriate waste feed and flush water will be evaporated with an on site commercial fluid evaporator(Winter Conditions).
3. Plant waste generated at bi weekly harvests, the cultivation process, unusable product because of mold, infestation or failing to meet testing requirements, returned testing or sampling product from marketing, will be ground to less than a 1/4" and mixed 50/50 with planting medium, packaged for disposal and delivered to the landfill.
4. Waste from soil cultivation (soil and root wads) will be ground to less than 1/4" mixed 50/50 with planting medium and disposed of on site as fill and composts.
5. Waste classified as general household garbage, packaging, rinsed non hazardous containers etc... will be bagged and delivered to the landfill. (There is no dedicated trash pick up at the 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:

The facility is engineered and designed with a mechanical system that will keep the building slightly negative to prohibit air from migrating through any openings. Air will be exhausted through the roof with fans through activated carbon filters to outside the building. Ionization will be added to the exhaust stream if it is determined that air being discharged through the roof has the potential of migrating to ground level during exhaust times and there is a detectable odor sensed.

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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:

Alaska Harvest Company LLC, expects to have bi-weekly harvest of 100 plants at full capacity. These harvests are expected to contain no more than 20 pounds of 2 to 6 strains. Each harvest will be segregated into batches by an AHC "QC Lead" who is specifically trained in the testing, packaging and documentation process. QC lead will select a random sample as prescribed by the Testing Facility and documented in writing. Batches will be segregated based the definition in 3 AAC 306.990. Samples will be entered into METRC, manifested, before transport to testing facility. All flower, bud, and associated trimmings will remain segregated in a quarantined, secure, dry, cool area until the marijuana testing facility has completed its testing and has notified AHC of the findings in writing. AHC will maintain and retain all testing results as part of its business books and records.
Sampling and Testing procedures will remain the same for random sampling requests from the MCO or government agencies.

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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:

There will be no outdoor production of marijuana at this facility.

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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:

The main grow areas have no windows or direct door openings. The 2 entry doors to the facility inter connect to a hallway or foyer that is enclosed and of a design that a person looking in as a person was leaving or entering the building would not see any marijuana. The building is designed with 3-non egress windows on the east side that are placed up high on the wall to deter any criminal activity. These windows are for ventilation purposes only for the Foyer, Office and Break room.
All garage doors on the south end of facility are framed and enclosed for future building design if needed. The doors are shown for reference only on engineered drawings.
The windows shown in the mezzanine area are framed and enclosed for future building design if needed. The windows are shown for reference only on engineered drawings.

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.

Dean Bush
Signature of licensee

Dean Bush
Printed name

Subscribed and sworn to before me this 22nd day of March, 2017.

OFFICIAL SEAL
CONNIE GATLING
NOTARY PUBLIC-STATE OF ALASKA
My Comm. Expires July 15, 2017

Connie Gatling
Notary Public in and for the State of Alaska.

My commission expires: 7-15-17

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(Additional Space as Needed):

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