MJ-15 and its attachments

Alcohol and Marijuana Control Office
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Alaska Marijuana Control Board

Form MJ-15: Operating Plan Change

What is this form?

This operating plan change form is required for all marijuana establishment licensees seeking to change a licensed marijuana establishment's existing operating plan, as required by 3 AAC 306.100. With this form, a licensee may request changes to as much or as little as desired of Form MJ-01 and/or the corresponding operating plan supplemental for the establishment's license type. **The required $250 change fee may be made by check, cashier's check, or money order.**

Please complete and submit with this form the pages of Form MJ-01 and/or the corresponding operating plan supplemental that contain sections that you are requesting to change. **All fields must be completed of any page for which you are requesting changes** – upon board approval, the submitted pages will replace those currently on file. If your current, approved operating plan is on the original version of the forms, you may be required to complete and submit the new operating plan forms in their entirety.

The form(s) that I am requesting board approval to change is:

- ☐ **Form MJ-01:** Marijuana Establishment Operating Plan
- ☐ **Form MJ-03:** Retail Marijuana Store Operating Plan Supplemental
- ☐ **Form MJ-04:** Marijuana Cultivation Facility Operating Plan Supplemental
- ☐ **Form MJ-05:** Marijuana Product Manufacturing Facility Operating Plan Supplemental
- ☑ **Form MJ-06:** Marijuana Testing Facility Operating Plan Supplemental

This form must be completed and submitted to AMCO's main office prior to changing existing operations. The licensed establishment's operations may not be altered unless and until the director has given temporary approval or the Marijuana Control Board (MCB) has given final approval of the changes. Please note that licensees seeking to change operating plans for multiple licenses must submit a separate completed copy of this form for each license.

Section 1 – Establishment Information

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

Licensee:	The New Frontier Research LLC	**MJ License #:**		12657	
License Type:	Marijuana Testing Facility				
Doing Business As:	The New Frontier Research				
Premises Address:	2301 S. Knik-Goose Bay Rd. #3				
City:	Wasilla	**State:**	Alaska	**ZIP:**	99654

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OCT 11 2018
ALCOHOL MARIJUANA CONTROL OFFICE
STATE OF ALASKA

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Form MJ-15: Operating Plan Change

Section 2 – Summary of Changes

Provide a summary of the changes for which you are requesting approval.

Hazardous waste will be generated by mixing organics solvents and cannabis in the course of sample preparation. Sample vials will be poured into a 5-gallon waste container in the lab, which will periodically be transferred to a 30-gallon container in the security and video-monitored warehouse. Once full, the 30-gallon container will be transferred to the Mat-Su Central Landfill for disposal. The following plan for non-hazardous waste was developed in accordance with the Mat-Su Landfills guidelines with input from their site manager. Once microbial testing has been completed, the used plastic, 15-ml vials containing growth media and ground cannabis will be taken from the incubator and go directly to a 30-gallon sealable drum that contains bleach water. Once at the drum, the vials will be opened and contents inside the vials will be poured into the drum and the lids and vials will be put into the drum as well. At the end of each day of business, the ground cannabis samples used for testing moisture content will be poured directly into the drum. Once all testing has been completed and the samples have been "cleared" in METRC, any leftover cannabis from those samples will be poured directly into the drum. Periodically, cat litter will be added to the drum so that any ground cannabis, although already unusable due to being mixed in media and bleach water, will also be unrecognizable. Once the drum is full and a manifest has been submitted to AMCO, it will be taken to the Mat-Su Landfill and the contents of the drum will be disposed according to the Mat-Su Landfills guidelines. Any cannabis that is not actively being used for testing or being prepared for destruction will be stored in a locked storage area inside the locked lab.

TNFR WILL ALSO PROVIDE TERPENE ANALYSIS USING GAS CHROMATOGRAPH WITH MASS SPECTROMETER DETECTION AS APPROVED BY ISO AS A PART OF THE SCOPE OF ACCREDITATION.

Section 3 – Declarations

Read each statement below, and then sign your initials in the corresponding box to the right: Initials

The proposed changes conform to all applicable public health, fire, and safety laws. [JA]

I understand that any temporary approval granted by the director is pending a final decision by the MCB; therefore, any investment I make, based upon temporary approval, is at my own risk. [JA]

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

Signature of licensee

Jessica Alexander

Printed name of licensee

Notary Public in and for the State of Alaska.

My commission expires: 06/01/2020

Subscribed and sworn to before me this 11th day of October, 2018.

"Official Seal" Notary Public Camisha Carlton State Of Alaska Commission #160601007 Expires 06/01/2020

AMCO Director Review for Temporary Approval Pending Final MCB Decision: Approved [✓] Disapproved [ ]

Erika McConnell

Printed name of Director

11/1/18

Date

Erika McConnell

Signature of Director

Director Comments:

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Form MJ-01: Marijuana Establishment Operating Plan

Section 5 – Waste Disposal

Review the requirements under 3 AAC 306.740, and identify how the proposed establishment will meet the listed requirements.

Applicants should be able to answer "Yes" to the statement below.

Marijuana Waste Disposal:	Yes	No
The marijuana establishment shall give the board at least 3 days notice in the marijuana inventory tracking system required under 3 AAC 306.730 before making the waste unusable and disposing of it	☑	☐

Describe how you will store, manage, and dispose of any solid or liquid waste, including wastewater generated during marijuana cultivation, production, process, testing, or retail sales, in compliance with applicable federal, state, and local laws and regulations:

Hazardous waste will be generated by mixing organics solvents and cannabis in the course of sample preparation. Sample vials will be poured into a 5-gallon waste container in the lab, which will periodically be transferred to a 30-gallon container in the security and video-monitored warehouse. Once full, the 30-gallon container will be transferred to the Mat-Su Central Landfill for disposal. The following plan for non-hazardous waste was developed in accordance with the Mat-Su Landfills guidelines with input from their site manager. Once microbial testing has been completed, the used plastic, 15-ml vials containing growth media and ground cannabis will be taken from the incubator and go directly to a 30-gallon sealable drum that contains bleach water. Once at the drum, the vials will be opened and contents inside the vials will be poured into the drum and the lids and vials will be put into the drum as well. At the end of each day of business, the ground cannabis samples used for testing moisture content will be poured directly into the drum. Once all testing has been completed and the samples have been "cleared" in METRC, any leftover cannabis from those samples will be poured directly into the drum. Once the drum is full and a manifest has been submitted to AMCO, it will be taken to the Mat-Su Landfill and the contents of the drum will be disposed according to the Mat-Su Landfills guidelines. Any cannabis that is not actively being used for testing or being prepared for destruction will be stored in a locked storage area inside the locked lab.

Describe what material or materials you will mix with the ground marijuana waste to make it unusable:

Organic solvents will be mixed with marijuana used for chemistry samples, rendering it completely unusable.

Periodically, cat litter will be added to the microbiological waste drum so that any ground cannabis, although already unusable due to being mixed in media and bleach water, will also be unrecognizable.

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Form MJ-01: Marijuana Establishment Operating Plan

Marijuana waste must be rendered unusable for any purpose for which it was grown or produced before it leaves the marijuana establishment. Describe the process or processes that you will use to make the marijuana plant waste unusable:

Organic solvents will be mixed with marijuana used for chemistry samples, rendering it completely unusable.

Microbiological samples are mixed in growth media prior to incubation, making it unusable. After testing, tubes of growth media will be emptied into a drum of bleach water and cat litter.

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Operating Plan Supplemental
Form MJ-06: Marijuana Testing Facility

Section 2 – Prohibitions

Applicants should review 3 AAC 306.610 and be able to answer "Agree" to all items below.

The marijuana testing facility will not:	Agree	Disagree
Sell, deliver, distribute or transfer any marijuana or marijuana product to a consumer, with or without compensation	☑	☐
Allow any person to consume marijuana or marijuana product on its licenses premises	☑	☐

Section 3 – Testing Practices and Procedures

Review the requirements under 3 AAC 306.615, 3 AAC 306.635 – 3AAC 306.645, and 3 AAC 306.660, and identify how the proposed establishment will meet the listed requirements.

Describe each test the marijuana testing facility will offer:

The New Frontier Research will offer:

Potency analysis for concentration of THC,THCA, CBD, CBDA and CBN.
- Marijuana plant (flower/shake/trim/kief)
- Concentrates or extracts
- Edible and topical products

Microbial screening for Shiga-toxin producing Escherichia Coli (STEC), Salmonella, and Aspergillus fumigatus, Aspergillus Flavus, and Aspergillus niger.
- Marijuana plant (flower/shake/trim/kief)
- Concentrates or extracts
- Edible and topical products

Terpene identification and quantitation:
- Marijuana plant (flower/shake/trim/kief)
- Concentrates or extracts
- Topical products

Foreign Matter Inspection:
- Marijuana plant material (flower/shake/trim/kief)
- Concentrates or extracts
- Edible and topical products

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Operating Plan Supplemental
Form MJ-06: Marijuana Testing Facility

Standard Operating Procedure Manual (3 AAC 306.640):

Applicants for marijuana testing facilities must have a written procedures manual with detailed instructions explaining how to perform each testing method the applicant or marijuana testing facility uses, and minimum standards for each test. Applicants should be able to answer "Agree" to all items below.

The marijuana testing facility will ensure that the standard operating procedure manual:	Agree	Disagree
Is available to each employee at all times	☑	☐
Will cover at least the required procedures listed under 3 AAC 306.640	☑	☐

Describe the marijuana testing facility's standard operating procedure for each test the facility will offer:

Potency: Marijuana plant/flower/shake/trim/kief, marijuana concentrates, edible and topical products will be tested for cannabinoid content and potency. Samples will be homogenized and tested using a high performance liquid chromatograph with UV detector or HPLC with PDA detector. Potency will be reported as the concentration in mg/g and as the % of both dry and wet product weight with an uncertainty budget of <15% RSD. The cannabinoid profile will be reported through METRC and to customers. The following cannabinoids will be profiled: d9-THC, d8-THC, THCA, THCV, THCVA, CBD, CBDA, CBDV, CBG, CBGA, CBN, and CBC. THC and THCA will be combined for total concentration, as will CBD and CBDA. In edible product testing, the potency of each single serving in a multi-unit package will be reported and must be within 20 % of the manufacturer's target. Samples will be failed if the potency is more than 20% variation, the product is not homogenous from serving to serving in a multi-serving package, or there is more than 60 mg in the test lot package.

Microbial: Cannabis plant, edible or topical products, or concentrates may be tested for microbial contaminants. Samples will be homogenized and then testing will be performed using qPCR for detection of salmonella, STEC (shiga-toxin producing escherichia coli) and Aspergillus fumigatus, Aspergillus flavus and Aspergillus niger. Samples will be failed for the presence of 1 CFU per gram.

Terpene analysis: Marijuana plant/flower/shake/trim/kief, marijuana concentrates, and topical products may be tested for terpene presence and quantity. Samples will be homogenized and tested using a gas chromatograph with mass spectrometer. Terpene profile will be reported as the concentration in mg/g and as the % of the wet product weight with an uncertainty budget of <30% RSD.

Moisture content: Moisture will be determined for plant material. Samples will be homogenized and then analyzed using an ISO compliant MOC63u moisture analyzer. Results will be reported at a % of plant weight and will pass testing if equal to or less than 15%. Moisture will be used to calculate dry weight percentages as well.

Visual Inspection: All samples will be viewed under microscopy for the presence of foreign materials and contaminants.

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