

From: [Travis Brown](#)
To: [Buck, Michelle](#)
Subject: FW: PB requests
Date: Wednesday, June 26, 2019 12:58:50 PM
Attachments: [FOGCO Nexus Letter 1A \(1\).pdf](#)
[FOGCO Cannabis Odor Control Flyer.pdf](#)

Michelle,

See attachments for the odor control system. There is also a link below showing the blackout curtains. I have a final revised plan set addressing the comments and also revising the landscaping. I would like to bring final documents to the meeting next week. I will be away on vacation and Steve O'Connell from ASE will be attending the meeting. Please let me know everything that you need to finalize the documents. Thank you

Travis Brown
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From: Sam Barber <sambarber@cultivatemass.com>
Sent: Tuesday, June 25, 2019 8:37 PM
To: Molly Kelly <molly.kelly@campanelli.com>
Cc: Travis Brown <tbrown@andrews-engineering.com>; Russell Dion <rdion@campanelli.com>
Subject: Re: PB requests

Let me know if you need anything else!

Nexus is dedicated to combating light pollution caused by greenhouses. We understand the importance of dark sky initiatives for both animals and humans. The national rate is rising 2.2% per year and is higher in rapidly developing urban areas. Greenhouses with grow lights can be an issue. Luckily, Nexus with over 50-years of experience in designing custom light deprivation and blackout roof curtains, provide optimum darkness and reliability along with our Hybrid Steel and insulated sides and ends.

We along with our Vendors LS Americas and Wadsworth Controls individually engineer light deprivation systems to provide a perfect fit for each unique project. Our systems block light from emitting from the greenhouse roof and ensure dark sky policies are adhered to and that all supplemental light stays in the greenhouse.

We use commercial grade light deprivation fabric LS ABB The fabric is UV stable for long life.

We use three layers of for complete darkness and for the longevity of the system so we can ensure total light block. While two layers of fabric keep the light level below one PAR.



No light pollution at night they fully meet compliance of local regulations.

This [link](#) shows the exterior of a greenhouse with lights on then the light deprivation curtain covering. It has not been altered.

On Mon, Jun 24, 2019 at 2:39 PM Molly Kelly <molly.kelly@campanelli.com> wrote:

Travis,

Per a discussion Russ and Sam had this morning, Sam will be providing the narratives you requested.

Thanks!

Molly Kelly

Asset and Development Manager



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From: Travis Brown <tbrown@andrews-engineering.com>

Sent: Monday, June 24, 2019 1:18 PM

To: Russell Dion <rdion@campanelli.com>; Molly Kelly <molly.kelly@campanelli.com>; Sam Barber <sambarber@cultivatemass.com>

Subject: PB requests

All,

The PB requested a brief narrative for the blackout curtain to be used within the building and also on the odor control system that will we utilized. Please prepare this and get it back to me so that I can provide it to Michelle Buck. Thank you

Travis Brown

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CANNABIS ODOR CONTROL





ODOR CONTROL A HIGHER STANDARD

Fogco has over 25 years of experience in the high pressure fog industry and its systems are used worldwide to address and eliminate a variety of odor control concerns. Because this issue is highly regulated within the cannabis industry, it is critical to obtain the most effective odor solution available. Fogco delivers.

How and Why it works:

For effective open area odor control, two key elements are required: high pressure fog and a scientifically developed essential oil mixture that performs as a true odor neutralizer.

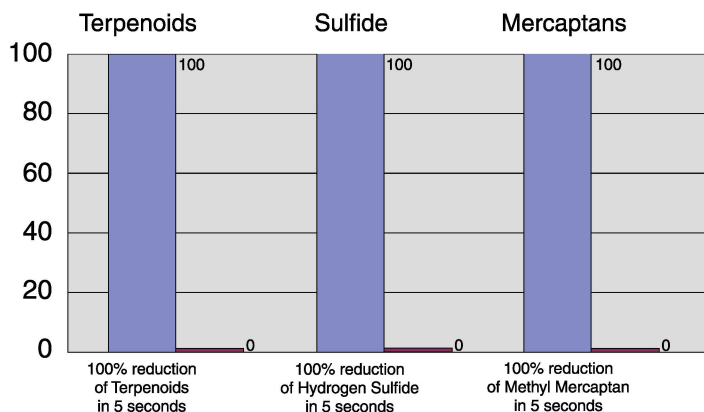
The high pressure fog is achieved through an atomizing process involving our high pressure fog pump and our specialty fogging nozzles. With this process, billions of micron sized droplets are produced every minute. For most cannabis operations, a nozzle ring is installed on the exterior of any vent or duct allowing the fog to mix with the exhausting air. As the droplets are suspended and carried into the air flow, they effectively encapsulate all airborne molecules.

Second, by injecting a specially formulated neutralizing solution into the high pressure fog, it is able to completely mix with the airborne odors. Through a series of chemical reactions (including antagonistic pairing, absorption and adsorption, and pluralistic effects), the essential oils are able to modify the chemical structure of the odor molecule which in turn, neutralizes and eliminates the malodor. This subtractive odor control™ process reduces odor intensity by over 90% compared to other vapor phase technologies that achieve up to 60%.

Benefits

- Licensing and application process approvals
- Neutralizes odors; eliminating complaints, violations, and fines.
- Cost effective
- Maximum coverage with minimum investment compared to alternatives.
- Non toxic and biodegradable with no contamination impact

Elimination of Terpenoids, Sulfide and Mercaptans Odors





6/25/19

Dear Sam,

Thank you for requesting information regarding your odor Mitigation system from Nexus.

Fogco our trusted vendor has been designing custom high-pressure fog systems for over 25 years. For odor mitigation, we use this fog as the foundation to deliver a neutralizer into the airstream where odors are prevalent. The neutralizer, which is made of essential oils, has been chemically developed by our odor solution partner, Benzaco Scientific. They have over 25 years of direct experience controlling odors in many different industrial and commercial applications. Since 2012, Fogco has been working directly with Benzaco delivering numerous odor mitigation systems to the cannabis industry with proven results.

I have attached some literature on the solution and product features and will describe the design of the system below.

Odor Mitigation system to consist of the following:

- 1000 psi industrial pulley drive pump
- Chemical injector
- High pressure nylon feed line
- 12 nozzle stainless steel fog rings to mount on external side of exhaust vents; nylon line with 7.5' nozzle spacing to run along roof vents.
 - High pressure fog carrying the neutralizer will be introduced into the exiting air streams. The neutralizer will absorb and solubilize the odor at this point. The process actually eliminates and/or changes the molecules that contain the odor preventing further airborne transportation.
- All fittings, connections, etc to complete the system
- A secondary line can be installed along the perimeter fence if there are any concerns of odors escaping past the fog rings.

As mentioned above, Fogco and Benzaco have many years of experience and hundreds of working odor mitigation projects worldwide in many different industries.

If you have any questions, please let me know.

Sincerely,

Jeff Warschauer VP Sales
Nexus – RBI Corp.

Comparison of light level readings relative to 1 PAR

