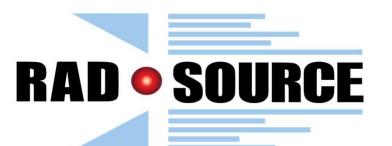


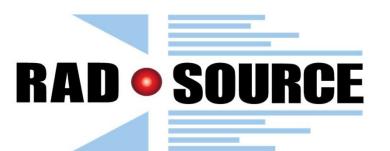
- ► Founded in 1997
- Industry leader in manufacturing renewable, non-isotope, ionizing radiation products
- Patented and proprietary QUASTAR technology



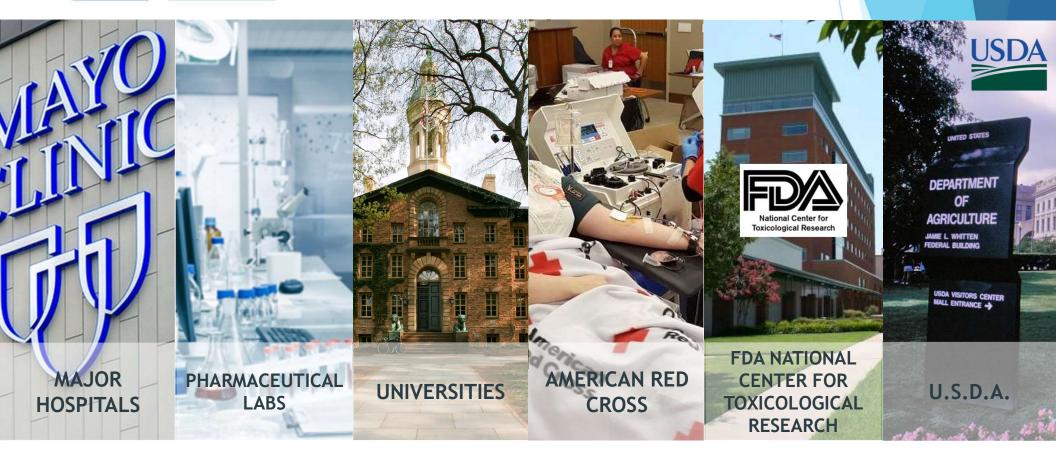


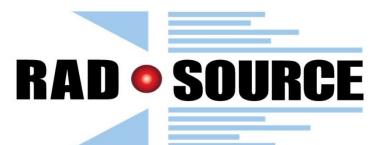
MACHINES ARE USED IN A WIDE RANGE OF APPLICATIONS





MACHINES ARE USED IN A WIDE RANGE OF LOCATIONS





MACHINES ARE USED IN A WIDE RANGE OF LOCATIONS





Methods



X-ray irradiator at Miami CPHST lab

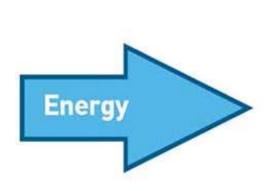


Lemon with arenas for individual mites

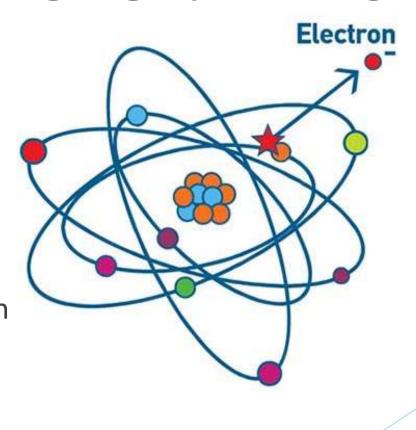


Brevipalpus mites on lemon

WHAT IS IONIZATION?



The process by which an atom or a molecule acquires a negative or positive charge by gaining or losing electrons

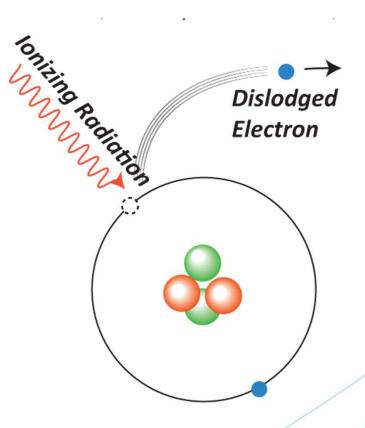


IONIZATION DESTROYS PATHOGENS

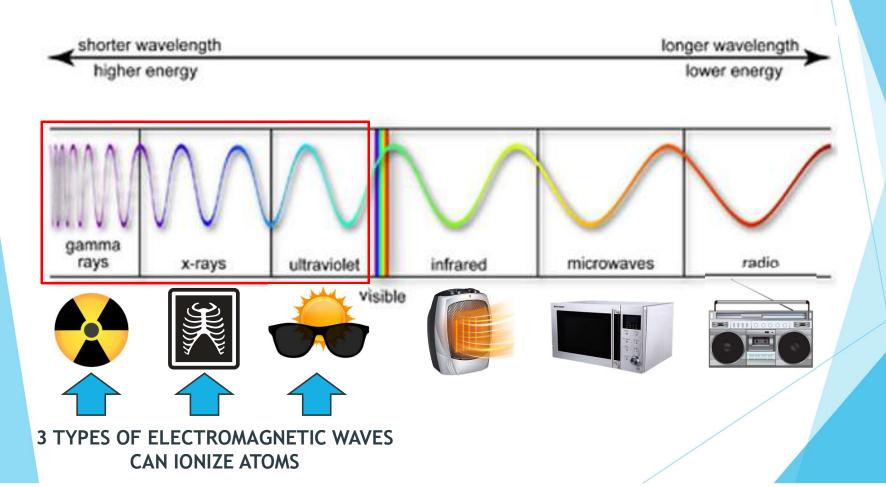


WHAT IS IONIZING RADIATION?

Any type of particle or electromagnetic wave that carries enough energy to ionize (i.e., remove electrons) from an atom



IONIZING VS. NON-IONIZING RADIATION



X-RAYS AND IONIZING RADIATION

2/13/2020

To Whom It May Concern,

I am writing on the merits of my doctoral degree in experimental nuclear physics, attained from the University of Kentucky. Over the course of my research, I have worked at Los Alamos and Oak Ridge National Laboratories, and presented at international conferences regarding my work, which was largely focused on the detection of ionizing radiation; the tubized and developed detection equipment to measure neutrons alpha particles (He⁻¹) protons electrons positrons (anti-electrons). You've and gamma nmission, the United States Food and Drug Administration, and the International Atomic Energy Agency have concluded that regulated use of X-rays for treatment does not cause radioactivity in food^{2,3,4}.

use of irradiation for the processing of food has been in the works for nearly 100 years, evolving and improving alongside development of new technologies. Organizations such as the International Atomic Energy Agency (IAEA), the World Health

X- and gamma rays are merely high-energy forms of light, with energies of ~1 keV to 10 MeV. Although textbook pictures of the electromagnetic spectrum often show X-rays as being lower in energy than gamma rays, this is misleading, as the only difference between the two is the origin of the light:

reordary 4, 2020. After reviewing the documents, particularly those presented by the Department, I realize that there are

vation of the target material or contamination by radioisotopes. With these two details in mind, X-ray irradiation is an

X-ray irradiators, such as those manufactured and sold by Rad Source Technologies, and gamma sources, like ¹³⁷Cs, reside, the photons can only interact with the electrons of atoms, and not the nuclei. Consequently, the material being irradiated will not become radioactive,

....

Furthermore, as X-ray irradiators do not utilize radioactive isotopes, there is no risk of contamination from the source material, so the likelihood of any subsequent radioactivity is non-existent.

as the United States Food

and Drug Administration explains, "any changes made by irradiation are so minimal that it is not easy to tell if a food has been irradiated".

production, which can only happen when the incident photon's energy exceeds the rest mass of an electron-positron pair, or 1.022 MeV.

For the range of 1 keV to 1 MeV, where X-ray irradiators, such as those manufactured and sold by Rad Source Technologies, and anima sources, like ¹³⁷Cs, reside, the photons can only interact with the electrons of atoms, and not the muclei. Consequently, the material being irradiated will not become radioactive, as isotopic changes necessitate a modification of the number of protons or neutrons within the nucleus, and this does not happen. Furthermore, as X-ray irradiators do not utilize radioactive isotopes, their is no risk of contamination from the source material, so the likelihood of any subsequent radioactivity is non-existent. Meanwhile, the ionization of the molecules within the target material do little to change the chemical nature of it; as the United States Food and Drug Administration explains, "any changes made by irradiation are so minimal that it is not easy to tell if a food has been irradiated." Due to these details, many organizations around the globe including the United States Nuclear Regulatory

Sincerely, Aaron Jezghani, PhD

X-RAYS AND IONIZING RADIATION



1. RAD Tech Equipment provides a safe and effective method of destroying pathogens:

- a. Most X-rays or Gamma-rays simply pass through the target plant material without interacting with it. The rays are like light through a window, to the largest extent.
- b. Those X-rays that do interact with biological material do so by directly, and irreversibly, damaging the cellular DNA rendering it non-viable. This the process that happens to the microbes within the plant sample being irradiated.
- c. Additional lethal damage is done to the microbes by interaction the cells' internal water content resulting in the generation of free radicals. These include hydroxyl radicals and superoxide radicals, as well as other oxidants such as hydrogen peroxide. It is worth noting that these are the same chemicals and associated mechanisms that hydrogen peroxide and ozone-based technologies for cannabis microbial reduction use.
- d. All these methods are highly effective at reducing microbial contamination levels of to meet and exceed regulatory limits set by states where the sale of cannabis is legal. See ref.: R. Kern and J.R. Green, Cannabis Science and Technology 2(6), 15-19 (2019) Title: It's Not Too Late: Post-Harvest Solutions to Microbial Contamination Issues

Prepared and submitted by:

 Most X-rays or Gamma-rays simply pass through the target plant material without interacting with it. The rays are like light through a window, to the largest extent

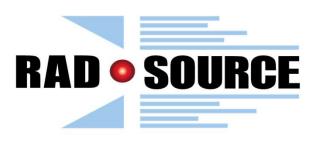
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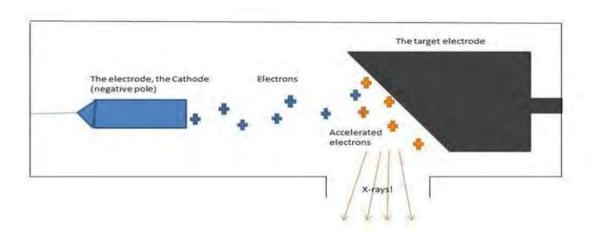
of Nevada ination of bial safety the safety supportive

Roger Kern, Ph.D.
President and Co-founder
Agate Biosciences, LLC

X-RAYS AND IONIZING RADIATION

RAD Source machines use an x-ray emitter as the source of ionizing radiation







X-RAYS ARE APPROVED RADIATION SOURCE FOR THE U.S.D.A.



Phytosanitary Irradiation: Technology and Efficacy

Andrea Beam

Supervisory Biological Scientist CPHST Miami Lab

Science and Technology
Plant Protection and Quarantine
Animal and Plant Health Inspection Services
United States Department of Agriculture





United States Department of Agriculture

Irradiation (gamma, e-beam, X-ray) at typical energies for radiation processing WILL NOT cause any of the irradiated products to become radioactive or leave any radioactive residue.

IONIZING RADIATION ON PRODUCTS FOR HUMAN CONSUMPTION





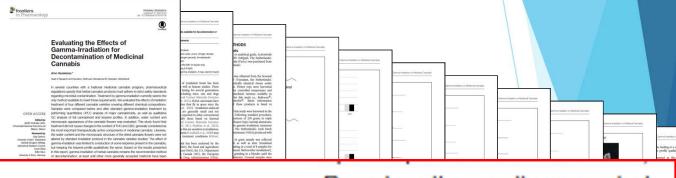


Head of Research and Education, Bedrocan International BV, Veendam, Netherlands

Published study of the effects of ionizing radiation on medical marijuana

 Concludes ionizing radiation is a safe and effective method for decontamination





Based on the results presented

in this report, gamma irradiation of herbal cannabis remains the recommended method of decontamination, at least until other more generally accepted methods have been developed and validated.

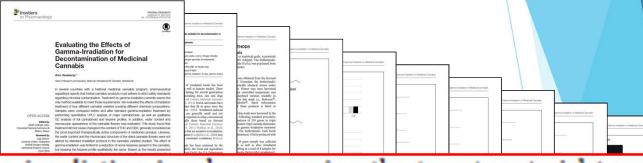






Decontamination of medicinal (herbal) cannabis is a necessity, as it has yet not been possible to grow cannabis plants under sufficiently sterile conditions to keep contamination levels below the required safety limits. Even if this were feasible, the multiple steps involved in harvesting, drying, processing and packaging cannabis buds would make it extremely hard to maintain near-sterile conditions throughout the entire production procedure. As a result, medicinal cannabis in The Netherlands as well as in Canada is treated by gamma irradiation before it becomes available to patients^{1,2}.





Gamma irradiation involves exposing the target material to packets of light (photons) that are so highly energetic (gamma rays) that they damage the DNA strands present in microbes. As a result, the affected microbes cannot multiply, and consequently they will perish³. Because medicinal cannabis is a harvested and dried (i.e., non-living) product, this effect is not relevant for the condition of the cannabis plant cells.

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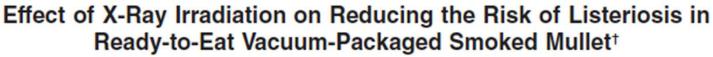
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Based on the results presented in this report, gamma irradiation of herbal cannabis remains the recommended method of decontamination, at least until other more generally accepted methods have been developed and validated. This is especially important when cannabis is prescribed to seriously ill and possibly immune-deprived patients, with an increased risk of suffering from microbial infection. Meanwhile, the development of improved hygienic standards for cultivation and processing of medicinal cannabis may ensure that irradiation doses can be reduced to an absolute minimum. In time, gamma-irradiation may eventually be replaced with other, more generally accepted, forms of reliable decontamination.





C. B. ROBERTSON, L. S. ANDREWS, 2* D. L. MARSHALL, P. COGGINS, M. W. SCHILLING, R. E. MARTIN, 3 AND R. COLLETTE³

Department of Food Science, Nutrition, and Health Promotion, Mississippi State University, Box 9805, Mississippi State, Mississippi 39762; ²Experimental Seafood Processing Laboratory, Coastal Research and Extension Center, Mississippi State University, 3411 Frederick Street, Pascagoula, Mississippi 39567; and 3National Fisheries Institute, 7918 Jones Branch Drive, Suite 700, McLean, Virginia 22102, USA

MS 05-536: Received 31 October 2005/Accepted 21 February 2006



and cold-smoked fish, squid, eel, and mussels (13). Despite this occurrence, there have been few cases of listeriosis linked to the consumption of ready-to-eat seafood, none of which occurred in the United States (10). The bacterium has been linked to a case of listeriosis in New Zealand due to consumption of smoked mussels (13) and to an outbreak of febrile gastroenteritis in Finland caused by consumption

Journal of Food Protection, Vol. 69, No. 7, 2006, Pages 1561-1564

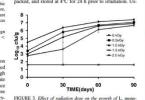
ntaining sensory qualities acceptable to consumers (9).
With the exception of raw molluscan shellfish (19), seafood products are not currently approved for commercial irradiation in the United States, However, studies have shown that ionizing radiation levels of 1 to 3 kGy are most commonly utilized for shelf-life extension and pathogen reduction (1, 2, 17, 18). The effectiveness of irradiation on L. monocytogenes varies depending on several factors such as the strain, substrate, irradiation type and dose, and plating medium (3, 4, 8). Therefore, many studies have pro duced conflicting results. Savvaidis et al. (18) demonstr

individually inoculated into 200 ml of Tryp

chrotrophic plate counts, and L. monocytogenes plate counts. Samples were diluted 1:1 wt/vol in PBS in stomacher bags and hopass were trained. In words in 175 in acontains to togs and incompenized for 30 s using a stomacher (Tekmar, STO-400, Cincinnati, Ohio). Serial dilutions of the homogenized fish were made in PBS and plated onto duplicate modified Oxford agar (MOX; Becton Dickinson) and quadruplicate plate count agar (PCA; Becton Dickinson) utilizing a model D spiral plater (Spiral Biotech. ood, Mass.). The MOX plates were incubated at 32°C for 48 h to allow for growth of L. manacyt s per sample were incubated at 32°C for 48 h to allow for

Racterial enumeration. The irradiated vacuum-packaged

r 10 s, creating a five-CFU/ml. One milliliter phosphate-buffered



SMOKED FISH IRRADIATION



I Food Prot. Vol. 69 No.

and Listeria mosocy-

atterns for the smoked fish
J. Food Prot. 66:52-60.
W. Thayer, 1989, Camera

genes, J. Food Prot. 52

9. sidis, I. N., P. Skandamis, K. A. Riganakos, N. Panagiotaki:

Savvalusi, I. v., r. Sanitumin, R. R. Reginando, N. Fanigirousto, and M. G. Kontoninas, 2002. Control of natural microbial flora and Listeria monocytogenes in vacuum-packaged trout at 4 and 10°C using irradiation. <u>J. Food Prot. 85-515-522</u>.
 U.S. Food and Drug Administration. 2005. Irradiation in the production procession and baseline of food. <u>Eed. Positivity 70:45937-64505</u>.







MISSISSIPPI STATE

2010 X-ray machines help kill bacteria in foo.

5/7/2010

X-ray machines help kill bacteria in foo...

hogenic bacteria, but it also extends the vs longer after the spoilage bacteria are

ens of dangerous bacteria, but the gas rays are often used for food irradiation,

re," Mahmoud said.

ndustries how useful X-ray machines will

moud said. "Ridding food of dangerous

By Karen Templeton

MSU Ag Communications

bacteria and does not after the food product in any other way. In 1963, the Food and Drug Administration deemed the irradiation of food to be a safe practice.

"Vibrios are the bacteria in raw oysters that can make them dangerous to eat," Mahmoud said. "This technology completely eliminates the naturally occurring bacteria, making the delicacy safe to consume. The X-rays do not kill the oysters; they stay also throughout the entire process."

Mining State University assistant professor of foodsafety and microbiology Barakat Mahmond uses the RS 2400 X-ray machine to ride assood and produce of harmful bacteria, Bares, be

X-ray machines help kill bacteria in food

machine to rid seafood and produce of harmful bacteria. Here, he glaces fresh produce carefully wrapped in plattic into the machine. In a matter of a few minutes, the food is irradated and ready to eat. (Photo by MSU Ag Communications/Karet Templeton)

The technology is also being used on fresh produce, such as spinach, lettuce and tomatoes.

"The salmonella and E. coli outbreaks in fresh produce over the last few years have really brought attention to the importance of food safety," Malmoud said. "What I've been working on is a way to get rid of food-borne illnesses without affecting the quality and freshness of the food."

Gary Bachman, assistant MSU Extension horticulture professor at the Coastal Research and Extension Center in Biloxi, worked with Mahmoud on some of the research.

"I helped select the vegetables that would benefit most from the X-ray process," Bachman said. "Given the issues leafy greens have lad with contamination, they were a good choice."

Bachman participated in evaluating the treated vegetables and found the quality stayed consistent.

"The process doesn't seem to affect quality," he said. "The technology is reliable, and as a result, the vegetables are free of pathogens."

Mahmoud uses an RS 2400 X-ray machine to do his work. He carefully wraps the food items in plastic before putting them into the machine. In a matter of a few minutes, the food is irradiated and ready to eat. The final product looks no different than when it first entered the X-ray machine.

"The freshness of the food remains the same," he said. "There is minor loss of vitamins A and C, but they always are reduced in any type of food processing."

msucares.com/news/.../100415.html

-30-

ased: April 15, 2010 tact: Dr. Barakat Mahmoud, (228) 762-7783 x304

lications may <u>download image</u> at 200 ppi

MISSISSIPPI STATE

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URL: http://msucares.com/heeviphrint/agreevis/an 10/100415.html
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msucares.com/news/.../100415.html

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DECONTAMINATING CANNABIS





STEVE SISOLAK
Governor
JAMES DEVOLLD
Chair, Nevada Tax Commission
MELANIE YOUNG
Executive Director

STATE OF NEVADA DEPARTMENT OF TAXATION

Web Site: https://tax.nv.gov

1550 College Parkway, Suite 115 Carson City, Nevada 89706-7937 Phone: (775) 684-2000 Fax: (775) 684-2020

LAS VEGAS OFFICE
Grant Sawyer Office Building, Suite1300
555 E. Washington Avenue
Las Vegas, Nevada 89101
Phone: (702) 486-2300 Fax: (702) 486-2373

RENO OFFICE 4600 Kietzke Lane Building L, Suite 235 Reno, Nevada 89502 Phone: (775) 687-9999 Fax: (775) 688-1303

HENDERSON OFFICE 2550 Paseo Verde Parkway, Suite 180 Henderson, Nevada 89074 Phone: (702) 486-2300 Fax: (702) 486-3377

Public Health and Safety Advisory 2019-02

The Nevada Department of Taxation is hereby issuing Health and Safety Notice Advisory 2019-02 on September 16, 2019 advising consumers and patients to avoid consuming marijuana which is the subject of this notice.

The affected marijuana, listed below, failed secondary microbial testing conducted by an independent testing laboratory. The results indicated total yeast and mold on the affected marijuana existed at levels of 10,909; 32,001; 33,676; and 48,693 CFU/g. The amount permitted under NAC 453D.780 is <10,000 CFU/g. One lot also failed for aspergillus, coliforms, and bile tolerant gram-negative bacteria.

The Department is advising consumers who have purchased the affected marijuana to avoid consuming the products. Consumption of the affected marijuana should particularly be avoided by individuals with suppressed immune systems.

There are no known reports of illness. Health impacts from yeast and mold may exist. The Centers for Disease Control and Prevention does have general information on how mold can affect people. See https://www.cdc.gov/mold/fags.html/affect. Consumers with concerns about their personal health should contact their physician with related questions.

DECONTAMINATING CANNABIS

RAD Source machines reduce pathogen levels to "too few to detect"

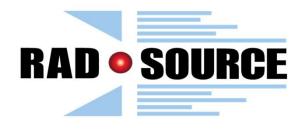




DECONTAMINATING CANNABIS







- Nevada Department of Taxation, Marijuana Enforcement Division approved a study by FlowerOne using a RAD Source machine
- CCB has that study results in its files

BAN ON RAD SOURCE MACHINES

RAL SO RCE

RAD Source Machines
Sold and Used
in Nevada

March - April 2019

RAD Source attempts to communicate with the Department

August 23, 2019

RAD Source's Counsel sends White Paper to the Department

November 1, 2019

RAD Source's Counsel sends a letter to the AG's office

September 10, 2019

George Terry from RAD Source goes to the Department's office and no one would meet with him

MARCH 2019

Dept Imposes Ban on RAD Source machine

BY NOVEMBER 2019:



- The Department's ban had been in place 8 months
- No communications from the Department in 6 months
- Department had never provided a scientific basis for the ban, but had insisted on FDA approval which was impossible
- RAD Source existing NV customers couldn't use their machines, and RAD Source couldn't sell any new machines
- As a last resort, RAD Source must file a lawsuit

BAN ON RAD SOURCE MACHINES RAD 2017 RAD Source Machines Sold and Used in Nevada June 24, 2020 May 29, 2020 Minute Order in RAD CCB publishes initial Source Lawsuit draft regulations July 3, 2020 **Proposed Regulation** June 18, 2020 12.065 Published Regulatory Public **MARCH 2019** Workshop

Dept Imposes Ban on RAD Source machine

PROPOSED REGULATION 12.065 - CANNABIS TREATED WITH RADIATION



"If any cannabis or cannabis product has been treated with radiation at any time, any and all packaging of the irradiated cannabis or cannabis product must include labeling that contains the following statement: "WARNING: This product contains ingredients that have been treated with irradiation" in bold lettering, along with the Radura symbol as used by the US Food and Drug Administration."

BAN ON RAD SOURCE MACHINES RAD 2017 RAD Source Machines Sold and Used in Nevada July 8, 2020 Writ of Mandamus June 24, 2020 May 29, 2020 entered Minute Order in RAD CCB publishes initial Source Lawsuit draft regulations July 3, 2020 **Proposed Regulation** June 18, 2020 12.065 Published Regulatory Public **MARCH 2019** Workshop

Dept Imposes Ban on RAD Source machine

CONCLUSIONS OF LAW

1. "A writ of mandamus is available to compel the performance of an act that the law requires as a duty resulting from an office, trust, or station or to control an arbitrary or capricious exercise of discretion." Nevada Yellow Cab Corp. v. Eighth Judicial Dist. Court in & for Cty. of Clark, 132 Nev. 784, 787, 383 P.3d 246, 248 (2016) (quoting Humphries v. Eighth Judicial Dist. Court, 129 Nev. 788, 791, 312 P.3d 484, 486 (2013)). For a writ to issue, generally a party must not have "an adequate and speedy legal remedy." Id.

 The Department violated NRS 453D.200(f) and failed to perform acts which the law compels it to perform by prohibiting the use of the RS 420 Line without any justification, hearing, or notice.

ban on the RS 420 Line.

5. To the extent the Department's actions were an exercise of discretion, the Department has acted arbitrarily and capriciously by banning RAD Source's RS 420 Line, which is a safe and effective method for treating marijuana.

6. To the extent the Department's actions were an exercise of discretion, the Department has acted arbitrarily and capriciously by requiring RAD source to meet impossible and inapplicable requirement of obtaining FDA certification or FDA letter of exemption before approving the RS 420 Line for treating marijuana.

7. To the extent the Department's actions were an exercise of discretion, the Department has acted arbitrarily and capriciously by applying different standards to similarly situated competitors.

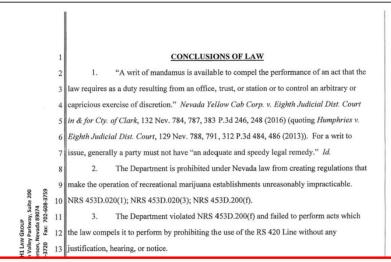
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2. The Department is prohibited under Nevada law from creating regulations that make the operation of recreational marijuana establishments unreasonably impracticable.

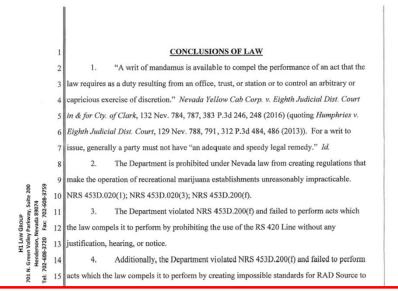
4. Additionally, the Department violated NRS 453D.200(f) and failed to perform acts which the law compels it to perform by creating impossible standards for RAD Source to meet, namely requiring FDA certification or an FDA letter of exemption in order to lift the ban on the RS 420 Line.

22 Department has acted arbitrarily and capriciously by requiring RAD source to meet
23 impossible and inapplicable requirement of obtaining FDA certification or FDA letter of
24 exemption before approving the RS 420 Line for treating marijuana.
25 7. To the extent the Department's actions were an exercise of discretion, the
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6

8. Additionally, when an agency engages in conduct that constitutes the making of a regulation, it must adhere to the notice and hearing requirements set forth under NRS 33B.060 and 233B.061. S. Nevada Operating Engineers Contract Compliance Tr. v. Johnson, 121 Nev. 523, 528, 119 P.3d 720, 724 (2005).

9. An agency engages in prohibited ad hoc rulemaking when it promulgates standards of general applicability that effect policy without complying with the Nevada APA.

10. The Department's self-defined "moratorium" on ionizing radiation technology is in violation of Nevada's Administrative Procedures Act because the moratorium was enacted in violation of NRS Chapter 233B.

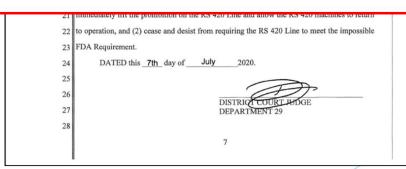


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- 2 of a regulation, it must adhere to the notice and hearing requirements set forth under NRS
- 3 233B.060 and 233B.061. S. Nevada Operating Engineers Contract Compliance Tr. v.
- 4 Johnson, 121 Nev. 523, 528, 119 P.3d 720, 724 (2005).
 - An agency engages in prohibited ad hoc rulemaking when it promulgates

ORDER

IT IS HEREBY ADJUDGED ORDERED AND DECREED that Plaintiffs' Petition

for Writ of Mandamus is GRANTED. The Department of Taxation is hereby ordered to (1) immediately lift the prohibition on the RS 420 Line and allow the RS 420 machines to return to operation, and (2) cease and desist from requiring the RS 420 Line to meet the impossible FDA Requirement.



BAN ON RAD SOURCE MACHINES

RAL SO RCE

RAD Source Machines Sold and Used in Nevada

May 29, 2020
CCB publishes initial draft regulations

2017

June 24, 2020
Minute Order in RAD
Source Lawsuit

June 18, 2020

Regulatory Public Workshop

July 8, 2020 Writ of Mandamus entered

July 3, 2020

Proposed Regulation 12.065 Published

July 21, 2020 NCCR 12.065 adopted by CCB

MARCH 2019

Dept Imposes Ban on RAD Source machine

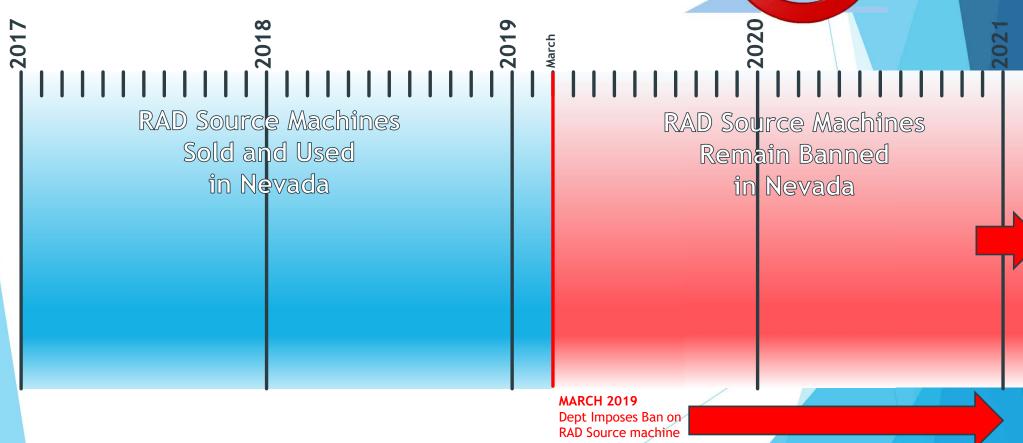
ADOPTED REGULATION 12.065 - CANNABIS TREATED WITH RADIATION



"If any cannabis or cannabis product has been treated with radiation at any time, any and all packaging of the irradiated cannabis or cannabis product must include labeling that contains the following statement: "NOTICE: This product contains ingredients that have been treated with irradiation" in bold lettering, along with the Radura symbol as used by the U.S. Food and Drug Administration."

BAN ON RAD SOURCE MACHINES



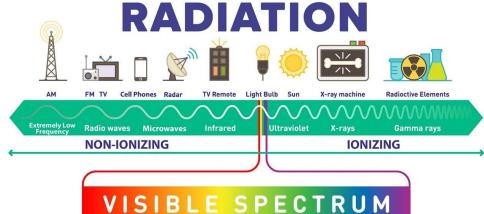




- NCCR violates NRS 678A.460(1)(a),(b): Was promulgated with less than 30 days' notice
- Not promulgated by any legislation



- The regulation uses the term "radiation," which is never defined
- As written, it could apply to any number of common practices whereby cannabis is exposed to radiation





- If only intended to apply to ionizing radiation (i.e., RAD Source), then not a regulation of general applicability
- Not supported by any scientific evidence or data



Federal Register/Vol

regulatory evaluation as the anticipat impact is so minimal. Since this is a routine matter that only affects air trap procedures and air navigation, it is certified that this rule, when promulgated, does not have a signific economic impact on a substantial number of small entities under the criteria of the Regulatory Flockbilty Jacobs.

The FAA has determined that this action qualifies for categorical exclunder the National Environmental Policy Act in accordance with FAA Order 1050.1F, "Environmental Impacts: Policies and Procedures," Unter 1050.1F, "Environmental Impacts: Policies and Procedures," paragraph 5-6.5a. This alispace acti is not expected to cause any potentisginificant environmental impacts, a no extraordinary circumstances exist that warrant preparation of an environmental assessment.

Airspace, Incorporation by refere Navigation (air). Adoption of the Amendment

In consideration of the foregoing, Federal Aviation Administration amends 14 CFR part 71 as follows:

PART 71—DESIGNATION OF CLASS B, C, D, AND E AIRSPACE AREAS; A TRAFFIC SERVICE ROUTES; AND REPORTING POINTS

Authority: 49 U.S.C. 106(f), 106(g): 401 40113, 40120; E.O. 10854, 24 FR 9565, 3 (1959–1963 Comp., p. 389.

■ 2. The incorporation by reference is 14 CFR 71.1 of FAA Order 7400.11D Airspace Designations and Reporting Points, dated August 8, 2019, effective ptember 15, 2019, is amended as

ANE MA E5 Pittsfield, MA [Amended

Pittsfield Municipal Airport, MA (Lat. 42°25'39° N, long. 73°17'27" W) That airspace extending upward from 700 feet above the surface within a 9.6-mile radius of the Pittsfield Municipal Airport and within 6-miles each side of the 064° bearing of the airport, extending from the mile radius to 18-miles northeast of the

DEPARTMENT OF HEALTH AND **HUMAN SERVICES**

Food and Drug Administration

21 CFR Part 310

[Docket No. FDA-2017-N-6924]

RIN 0910-AH47

Regulation Requiring an Approved New Drug Application for Drugs Sterilized by Irradiation

AGENCY: Food and Drug Administration,

ACTION: Final rule.

SUMMARY: The Food and Drug Administration (FDA, the Agency, or we) is issuing a final rule repealing a regulation that requires an FDAapproved new drug application (NDA) or abbreviated new drug application (ANDA) for any drug product that is sterilized by irradiation (the irradiation regulation). Repealing the irradiation regulation will mean that over-thecounter (OTC) drug products that are generally recognized as safe and effective, are not misbranded, and comply with all applicable regulatory requirements can be marketed legally without an NDA or ANDA, even if they are sterilized by irradiation. FDA is taking this action because the irradiation regulation is out of date and unnecessary.

DATES: This rule is effective January 15,



FDA recognizes ionizing radiation of over the counter drugs to be safe and effective, and therefore does not require any labeling



- ► A labeling requirement is counterproductive
 - Suggests to the uninformed consumer that there is some danger, when in fact the opposite is true
 - Disincentivizes consumers from purchasing the safest available products

WHAT TO DO NOW?



- CCB and RAD Source have a common goal: public health and safety
- Scaring consumers away from safe products does not accomplish that goal

WHAT TO DO NOW?



- NCCR 12.065
 - No scientific basis
 - Counterproductive
 - Did not follow proper procedures for adoption