



ARIZONA DEPARTMENT OF HEALTH SERVICES
BUREAU OF RADIATION CONTROL

**NOTICE OF REGISTRATION CERTIFICATE FOR
PARTICLE ACCELERATOR**

RADIOACTIVE MATERIAL LICENSE

Pursuant to Chapter 4, Title 30, Arizona Revised Statutes, and Title 9, Chapter 7 of the Arizona Administrative Code, and in reliance on statements and representations made to the Department by the registrant/licensee, a registration/license is hereby issued authorizing the reception, possession, and use of the particle accelerator listed in this registration/license at the places specified. This registration/license is subject to all applicable rules and Department orders now or hereafter in effect and to the conditions specified. **In accordance with letter dated September 14, 2020, signed by Leon Harris, Registration/License No. PA-045 is hereby amended in its entirety to read as follows: ALL CHANGES ARE IN BOLD.**

REGISTRANT/LICENSEE

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| <p>1. NAME: Board of Regents d/b/a
University of Arizona</p> <p>2. ADDRESS: P.O. Box 245101
Tucson, Arizona 85724</p> | <p>3. a. REGISTRATION/LICENSE NO.: PA-045
b. AMENDMENT NO.: 9</p> <p>4. EXPIRATION DATE: October 31, 2022</p> <p>5. TYPE OF MACHINE: Industrial</p> |
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| <p>6. MANUFACTURER:</p> <p>A. General Ionex</p> <p>B. National Electrostatics Co.</p> | <p>7. MODEL NO.:</p> <p>A. 4130A</p> <p>B. 9SDH-2</p> | <p>8. SERIAL NO.:</p> <p>A. N/A</p> <p>B. 019</p> |
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9. **AUTHORIZED USE:**
- A. For use in General Ionex, Particle Accelerator, for research use only, not for human use.
- B. For use in National Electrostatics, Particle Accelerator for research use only, not for human use.

CONDITIONS

10. The accelerator will be used at the Registrant/Licensee's address at 1717 East Speedway, Suite 1201, Tucson, Arizona 85719.
11. The registrant/licensee shall comply with the provisions of Title 9, Chapter 7, Arizona Administrative Code; Article 3, "Radioactive Material Licensing"; Article 4, "Standards for Protection Against Ionizing Radiation"; Article 9, "Particle Accelerators"; and Article 10, "Notices, Instructions, and Reports to Radiation Workers; Inspections".
12. The registrant/licensee shall notify the Department within thirty days of any change which renders the information contained in this registration/license inaccurate. A change in the ownership or possession of the source shall terminate this registration/license.

POST IN ACCORDANCE WITH R9-7-1002

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SUPPLEMENTARY SHEET**

Registration/License No: PA-045
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13. No person, in any advertisement, shall refer to the fact that a source of radiation is registered/licensed with the Department and no person shall state or imply that any activity under this registration/license has been approved by this Department.
14. A. The Qualified Expert for this registration/license is: **Todd Lange, M.S.**
B. The Radiation Safety Officer for the particle accelerator(s) is: **Leon Harris**
15. The registrant/licensee shall ensure that an interlock system is in place and used to prevent irradiation in accordance with A.A.C. R9-7-905(A)(6)(c), except to obtain an image, when electron applicators are fitted.
16. The registrant/licensee shall notify the Department of removal from service any machine listed on this registration/license within 15 days of its removal. The information provided shall include name and address of the person receiving the machine.
17. This registration/license authorizes the possession of radioactive material in the form of activated equipment which was created as a result of the operations of this particle accelerator but not for any other use or purpose. This activated equipment cannot exceed the limits specified in A.A.C. R9-7-323.
18. Relocation, maintenance, and repair of accelerators (specifically parts containing activation products) shall be performed only by persons specifically authorized by the **Arizona Department of Health Services, Bureau of Radiation Control**.
19. For purposes of ending the principal activities authorized under this registration/license:
- A. The registration/license stays in effect beyond the registration/license expiration date. Beyond the expiration date the registrant/licensee shall store radioactive material only, until the Department authorizes its use by registration/license amendment, or the Department notifies the registrant/licensee in writing that the registration/license is terminated.
- B. The registrant/licensee shall ensure the timeliness of decommissioning of facilities where principal activities are conducted under this registration/license in accordance with Department requirements.
- C. The registrant/licensee shall continue to control public access into restricted areas and pay the annual licensing fee until the registration/license is terminated.
20. Except as specifically provided by the registration/license, the registrant/licensee shall possess and use the particle accelerator(s) described in this registration/license in accordance with statements and representations contained in:
1. Application with attachments, dated December 12, 2016 signed by Dan Silvain, MS.

The most recent statements, representations, and procedures shall govern if they conflict with previously submitted documents, unless otherwise specified by a registration/license condition; and the Department's rules shall govern the registrant/licensee's statements in applications or letters.

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20. Cont.



BRIAN D. GORETZKI, BUREAU CHIEF



COLBY BOWER, ASSISTANT DIRECTOR

DATE ISSUED: SEP 17 2020

PRK:BDG:mjk

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