**ARIZONA RADIATION REGULATORY AGENCY**

**NOTICE OF REGISTRATION CERTIFICATE FOR PARTICLE ACCELERATOR RADIOACTIVE MATERIALS LICENSE**

Pursuant to Chapter 4, Title 30, Arizona Revised Statutes, and Title 12, Chapter 1 of the Arizona Administrative Code, and in reliance on statements and representations made to the Agency 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 Agency orders now or hereafter in effect and to the conditions specified. In accordance with letter dated January 12, 2016, signed by Dan Silvain, Registration-License No. PA-070 is hereby amended in its entirety to read as follows: ALL CHANGES ARE IN BOLD

**REGISTRANT/LICENSEE**

1. **NAME:** Medical Center Corporation d/b/a (University Medical Center and Board of Regents) (dba University of Arizona)
2. **ADDRESS:** P.O. Box 245101
   Tucson, Arizona 85724
3. a. **REGISTRATION/LICENSE NO.:** PA-070
   b. **AMENDMENT NO.:** 3
4. **EXPIRATION DATE:** April 30, 2021
5. **TYPE OF MACHINE:** Medical Therapy
6. **MANUFACTURER:** Varian
7. **MODEL NO.:** Trilogy
8. **SERIAL NO.:** No. 5111
9. **Authorized Use:**
   A. For use in Varian Trilogy particle accelerator, may be used for the therapeutic treatment of human disease

**CONDITIONS**

10. This registration/license is valid only for the registrant/licensee’s facility at 1891 West Orange Grove Road, Tucson, Arizona 85704.
11. The licensee shall comply with the provisions of Title 12, Chapter 1, Arizona Administrative Code; Article 3, “Radioactive Material Licensing”; Article 4, “Standards for Protection Against Ionizing Radiation”; Article 5, “Sealed Source Industrial Radiography”; and Article 9, “Particle Accelerators”; and Article 10, “Notices, Instructions, and Reports to Ionizing Radiation Workers; Inspections”.
12. The registrant/licensee shall notify the Agency 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.
13. No person, in any advertisement, shall refer to the fact that a source of radiation is registered with the Agency and no person shall state or imply that any activity under this registration/license has been approved by this Agency.

**POST IN ACCORDANCE WITH R12-1-1002**
14. A. The particle accelerator listed under sub item A of items 6, 7 and 8 shall be used by, or under the supervision of, individuals designated by the University of Arizona Medical Radiation Safety Committee.

B. The Qualified Experts for this particle accelerator listed in sub item A shall be individuals that have been approved by the University of Arizona Medical Radiation Safety Committee.

C. The Radiation Safety Officer for the particle accelerator(s) is: Daniel Silvain, M.S.

15. The registrant/licensee shall establish procedures to ensure that the therapy dose is correct, and as prescribed by the therapy physician. The registrant/licensee shall establish procedures that specify: the time-frame in which the check shall occur, based on the specific therapy plan; the protocol used to make the check, and designate which staff member will perform the check.

16. The registrant/licensee shall ensure that an interlock system is in place and used to prevent irradiation with X-rays in accordance with R12-1-905 (A) (6) and (8), except to obtain an image, when electron applicators are fitted.

17. The registrant/licensee shall establish a quality management program to provide high confidence that radiation is administered as directed by the prescribing physician.

18. Each registrant/licensee shall use the services of a third party qualified expert or third party TLD system to verify the accelerator’s radiation output every 2 years.

19. The registrant/licensee shall notify the Agency 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.

20. The registrant/licensee shall ensure that a radiation therapy machine is not used to administer radiation to humans unless the spot-check required by R12-1-905, has been performed within the 30 day period immediately prior to a planned therapy administration.

21. The registrant/licensee shall include in the Quality Management Program, an IMRT quality assurance evaluation that includes the following:

   1. A method of testing the hardware and software used in the IMRT treatment planning and delivery process;

   2. A review of each patient’s treatment plan; and

   3. A review of the physical implementation of the treatment plan.
22. 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 R12-1-323.

23. Installation, relocation, maintenance, repair and initial radiation survey of devices containing radioactive material, and leak testing, installation, replacement and disposal of radioactive material used in such devices, may be performed only by persons specifically authorized by the Arizona Radiation Regulatory Agency.

24. Devices containing radioactive material shall be used only for, and in accordance with, the procedures described in the manufacturer’s instruction manuals.

25. For purposes of ending the principal activities authorized under this registration/license:
   A. The license stays in effect beyond the license expiration date. Beyond the expiration date the licensee shall store radioactive material only, until the Agency authorizes its use by license amendment, or the Agency notifies the licensee in writing that the license is terminated.
   B. The licensee shall ensure the timeliness of decommissioning of facilities where principal activities are conducted under this license in accordance with Agency requirements.
   C. The licensee shall continue to control public access into restricted areas and pay the annual licensing fee until the license is terminated.

26. 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 dated March 25, 2011, signed by Daniel Silvain M.S.

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 Agency’s rules shall govern the registrant/licensee’s statements in applications or letters.

AUBREY V. GODWIN, DIRECTOR

ISSUE DATE: FEB - 9 2016

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POST IN ACCORDANCE WITH R12-1-1002