

**RADIOACTIVE MATERIAL LICENSE**

*Pursuant to the California Code of Regulations, Division 1, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer, or dispose of radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders of the California Department of Public Health now or hereafter in effect and to any standard or specific condition specified in this license.*

<p>1. Licensee: Achievement Engineering Corp.</p> <p>2. Address: 2455 Autumnvale Drive, Suite E San Jose, CA 95131</p> <p>Attention: Arash Firouzjaie Radiation Safety Officer</p>	<p>3. License Number: 8038-43      Amendment Number:</p> <p>4. Expiration Date: November 20, 2024      (5)</p> <p>5. Inspection Agency: Radiologic Health Branch North</p>
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6. Nuclide	7. Form	8. Possession Limit
A. Cesium-137/Americium-241:Be	A. Sealed sources (CPN Model CPN-131)	A. 3 source pairs not to exceed 10 mCi of Cesium-137 and 50 mCi of Americium-241.*
B. Cesium-137/Americium-241:Be	B. Sealed sources (Isotope Product Laboratories Model No. HEG-137 and AM1.NO2)	B. 3 source pairs not to exceed 11 mCi of Cesium-137 and 44 mCi of Americium-241.*

\*Total number of source pairs not to exceed 3.

9. Authorized Use

- A. To be used as components of gauges, CPN Corporation Models MC or 500 series, for determination of moisture/density in engineering materials.
- B. To be used as components of gauges, InstroTek Model 3500 series, for determination of moisture/density in engineering materials.

LICENSE CONDITIONS

- 10. Radioactive materials may be used at temporary job sites of the licensee in areas not under exclusive federal jurisdiction throughout the State of California (see Condition 22). Radioactive materials may be permanently stored only at:
  - (a) 2455 Autumnvale Drive, Suite E, San Jose, CA.
- 11. This license is subject to an annual fee for sources of radioactive material authorized to be possessed at any one time as specified in Items 6, 7, 8 and 9 of this license. The annual fee for this license is required by and computed in accordance with Title 17, California Code of Regulations, Sections 30230-30232 and is also subject to an annual cost-of-living adjustment pursuant to Section 100425 of the California Health and Safety Code.
- 12. Radioactive material may be used only by, or under the supervision and in the physical presence of, individuals who:
  - (a) Have satisfactorily completed a course, accepted by the Department as adequate, in safe use of soil/asphalt content gauges containing radioactive material; and also
  - (b) Have been provided with a statement, signed by the Radiation Safety Officer, which designates that individual as an authorized user qualified to use radioactive material under this license. Copies of these documents shall be maintained for inspection by the Department.

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13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, 8 and 9 of this license in accordance with the statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - (a) The application with attachments, dated June 13, 2014, as modified by the letters with attachments, dated September 29, 2014, and October 2, 2014, all signed by Arash Firouzjaie, President, Radiation Safety Officer.
14. (a) The Radiation Safety Officer in this program shall be Arash Firouzjaie.
  - (b) The Alternate Radiation Safety Officer in this program shall be Farshad Safaian.
15. Sealed sources contained in soil/asphalt gauges shall be tested for leakage and/or contamination at intervals not to exceed twelve months.
16. The following individuals are authorized to collect wipe test samples of sealed sources possessed under this license using leak test kits acceptable to the California Department of Public Health:
  - (a) The Radiation Safety Officer.
  - (b) Qualified individuals designated in writing by the Radiation Safety Officer.
17. Quantitative analytical assays for the purpose of tests for leakage and/or contamination of sealed sources shall be performed only by persons specifically authorized to perform that service.
18. Records of leak test results shall be kept in units of microcuries and maintained for inspection. Records may be disposed of following Department inspection. Any leak test revealing the presence of 0.005 microcuries or more of removable radioactive material shall be reported to the California Department of Public Health, Radiologic Health Branch, MS 7610, P.O. Box 997414, Sacramento, CA 95899-7414, within five days of the test. This report shall include a description of the defective source or device, the results of the test, and the corrective action taken.
19. Maintenance and repair of soil/asphalt content gauges shall be performed only by persons specifically authorized to perform those services.
20. At any time the licensee is engaged in making measurements by authority of this license at either a permanent or temporary job site, the licensee shall have a current copy of each of the following documents available for inspection at the job site:
  - (a) A statement authorizing each qualified individual to use radioactive material (See Condition 12).
  - (b) This license.
  - (c) The manufacturer's instruction manual with appropriate emergency procedures.
21. The licensee shall comply with all requirements of Title 17, California Code of Regulations, Section 30373 when transporting or delivering radioactive materials to a carrier for shipment. These requirements include; packaging, marking, labeling, loading, storage, placarding, monitoring, and accident reporting. Shipping papers shall be maintained for inspection pursuant to the U.S. Department of Transportation requirements (Title 49, Code of Federal Regulations, Part 172, Sections 172.200 through 172.204).

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22. Before radioactive materials may be used at a temporary job site at any federal facility, the jurisdictional status of the job site must be determined. If the jurisdictional status is unknown, the federal agency should be contacted to determine if the job site is under exclusive federal jurisdiction. A response shall be obtained in writing or a record made of the name and title of the person at the federal agency who provided the determination and the date that it was provided. Authorization for use of radioactive materials at the job sites under exclusive federal jurisdiction shall be obtained either by:

- (a) Filing an NRC Form-241 in accordance with the Code of Federal Regulations, Title 10, Part 150.20 (b), "Recognition of Agreement State Licenses", or
- (b) By applying for a specific NRC license.

Before radioactive material can be used at a temporary job site in another State, authorization shall be obtained from the State if it is an Agreement State, or from the NRC for any non-Agreement State, either by filing for reciprocity or applying for a specific license.

23. The licensee shall conduct a physical inventory every six months to account for all sealed sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for inspection, and may be disposed of following Department inspection.

24. The Radiation Safety Officer shall establish measures for the security of devices possessed and transported under authority of this license. The Radiation Safety Officer shall ensure security measures required by this license meet the following minimum standards:

- (a) Transport vehicles must be equipped to provide security of the transport case. The method selected must provide for a fixed and permanent attachment to vehicle frame. When secondary containers are used for the Type A package they shall be attached to the vehicle with the use of a tamper resistant fasteners to the frame of the transport vehicle.
- (b) A minimum of two locks shall be placed between radioactive sources and the public when the device is being transported, in addition to the locks securing the Type A package to the vehicle.
- (c) Transport vehicles must be equipped with a security device (such as an alarm system) capable of deterring unauthorized use entry, access, and of the vehicle.
- (d) Local law enforcement shall be notified immediately in the event of loss or theft.

25. The licensee will provide the Low Level Radioactive Waste (LLRW) reports specified in the California Health and Safety Code Section 115000.1(h) to the California Department of Public Health (CDPH) on an annual basis for both shipped and stored LLRW. Alternatively, LLRW shipment information may be provided on a per shipment basis. LLRW shipment information and annual reports shall be mailed to:

Attn: LLRW Tracking Program  
California Department of Public Health  
Radiologic Health Branch, MS 7610  
P.O. Box 997414  
Sacramento, CA 95899-7414

26. At least 30 days prior to vacating any address of use listed in Condition 10 of this license, the licensee shall provide written notification thereof to the California Department of Public Health, in accordance with Title 17, California Code of Regulations, Section 30256 (b).

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27. A copy of this license and a copy of all records and documents pertaining to this license shall be maintained available for inspection at 2455 Autumnvale Drive, Suite E, San Jose, CA.

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Issued for the California Department of Public Health

Date: November 20, 2014

By: \_\_\_\_\_



Lauren B. Labbé  
Chief, Industrial and GLD Licensing Unit  
Radiologic Health Branch  
MS 7610, P.O. Box 997414  
Sacramento, CA 95899-7414