NRC FORM 374 PAGE 1 OF 4 PAGES U.S. NUCLEAR REGULATORY COMMISSION Amendment No. 76 MATERIALS LICENSE Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 70 and 71, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below. Licensee 4. Expiration Date: July 31, 2022 In accordance with letter dated April 29, 2022, 1. Hawaii Agriculture Research Center 5. Docket No.: 030-06839 2. P.O. Box 100 3. License No.: 53-00515-01 is Reference No.: Kunia, HI 96759 amended in its entirety to read as follows: 6. Byproduct, source, 7. Chemical and/or physical form Maximum amount that licensee 9. Authorized use 8. and/or special nuclear may possess at any one time material under this license 60 millicuries total A. Carbon-14 Α. A. For possession and storage only with A. Anv intent to dispose. H. F. B. 100 millicuries total B. For possession and storage only with B. Hydrogen-3 B. Any intent to dispose. C. 250 millicuries total C. Hydrogen-3 C. Foils C. For possession and storage only with intent to dispose. 100 millicuries total D. Nickel-63 D. Foils D. D. For possession and storage only with intent to dispose.

| NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION PAGE 2 OF 4 PAGES   |  |                                       |          |  |  |
|--|--|---------------------------------------|----------|--|--|
| MATERIALS LICENSE  | License No.: 53-00515-01   | Docket or Reference No.:<br>030-06839 |          |  |  |
| SUPPLEMENTARY SHEET  | Amendment No. 76   |                                       |          |  |  |
|  |  |                                       |          |  |  |
| CONDITIONS   |  |                                       |          |  |  |
| <ol> <li>Licensed material shall be stored only at the licensee's facilities located at HARC Kunia Substation, 94-340 Kunia Road, Waipahu (Island<br/>of Oahu), Hawaii, 96797.</li> </ol>  |  |                                       |          |  |  |
| 11. Licensed material shall be stored by, or under the supervision and in the physical presence of, individuals who have been trained as<br>specified in application dated January 29, 2020, and who have been designated by the Radiation Safety Officer.   |  |                                       |          |  |  |
| 12. The Radiation Safety Officer (RSO) for this license is Ronald C. Frick.  |  |                                       |          |  |  |
| 13. A. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.  |  |                                       |          |  |  |
| B. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination. |  |                                       |          |  |  |
| sample. If the test reveals the presen filed with the U.S. Nuclear Regulatory  | C. The leak test shall be capable of detecting the presence of 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. |                                       |          |  |  |
| D. Analysis of leak test samples and/or of Commission or an Agreement State to the analysis.   | contamination shall be performed by pe<br>o perform such services. The licensee i  | · · ·                                 | <b>u</b> |  |  |

E. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.

| NRC FORM 374A       | U.S. NUCLEAR REGULATORY COMMISSION |                          | PAGE 3 OF 4 PAGES |
|---------------------|------------------------------------|--------------------------|-------------------|
|                     | License No.: 53-00515-01           | Docket or Reference No.: |                   |
| MATERIALS LICENSE   |                                    | 030-06839                |                   |
| SUPPLEMENTARY SHEET | Amendment No. 76                   |                          |                   |
|                     |                                    |                          |                   |
|                     |                                    |                          |                   |

- 14. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
  - A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated, except for radiation labels on materials that are within containers and that will be managed as biohazard waste after they have been released from the licensee.
  - B. A record of each such disposal permitted under this license condition shall be retained for 3 years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- 15. The licensee will continue to take all actions within its ability to dispose of its material and notify NRC within 30 days if disposal is achieved.

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| NRC FORM 374A       | U.S. NUCLEAR REGULATORY COMMISSION |                                       | PAGE 4 OF 4 PAGES |
|---------------------|------------------------------------|---------------------------------------|-------------------|
| MATERIALS LICENSE   | License No.: 53-00515-01           | Docket or Reference No.:<br>030-06839 |                   |
| SUPPLEMENTARY SHEET | Amendment No. 76                   |                                       |                   |

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

EINA MUN

A. Application dated January 29, 2020 with enclosures (ML20035C720)

B. Letter dated June 30, 2020 with enclosures (ML20183A144)

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: June 15, 2022

By:

Roberto J. Torres Region IV