



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

October 21, 2021

Ryan Nall
Radiation Safety Officer
Kaiser Aluminum Warrick, LLC
P.O. Box 25
Newburgh, IN 47629

**SUBJECT: SUSPENSION OF REVIEW OF NEW LICENSE APPLICATION DATED
AUGUST 6, 2021 AND OCTOBER 5, 2021 FOR KAISER ALUMINUM
WARRICK, LLC**

Dear Mr. Nall:

I have reviewed the application dated August 6, 2021, and the revised application dated October 5, 2021, both signed by Evan Quinley, Location Manager, for issuance of a U.S. Nuclear Regulatory Commission (NRC) Materials License. Your application requested authorization to possess and use the SenTek Corporation Model TX-1 gauging devices in the performance of thickness measurements at your facility.

Based on the review, I determined that additional information was needed to continue the review of your license application. Therefore, I prepared and sent you a written request for additional information in the letter dated August 30, 2021. Your response identified that you require authorization for the SenTek Corporation Model TX-1 gauging devices containing either the Eckert & Zielger Isotope Products (formerly AEA Technologies) Model SIF.D1 or SIF.D3 sealed source.

Title 10 Code of Federal Regulations (10 CFR) §30.32(g), specifies that you identify the source or the device by manufacturer and model number as registered with the U.S. NRC under 10 CFR §32.210, "Registration of Product Information" or with an Agreement State under equivalent regulations, or provide the information identified in section 32.210(c).

The registration, as conducted by the U.S. NRC, consists of issuance of a registration certificate which:

- (a) confirms that the sealed source and device design meets the regulatory requirements under 10 CFR §32.210; and
- (b) lists provisions of use for the product.

Regarding devices, the provisions of the registration certificate identify the make and model of the source(s) which are authorized for use in the device. Sources, other than the makes and models listed in the device registration, are not authorized to be used.

The SenTek Corporation Model TX-1 gauging device was issued a certification of registration by the Ohio Department of Health's Bureau of Environment Health and Radiation Protection. The certificate of registration, Ohio Sealed Source & Device (SS&D) Registry Sheet Number OH-1189-D-101-B, dated May 30, 2003, does not authorize use of the Eckert & Ziegler Isotope Products Model SIF.D3 sealed source for use with the SenTek Corporation Model TX-1 gauging device.

It appears that the SenTek Corporation Model TX-1 gauging devices were initially distributed with the Eckert & Ziegler Isotope Products Model SIF.D3 sealed source. Therefore, an amendment to Ohio SS&D Registry Sheet No. OH-1189-D-101-B is needed to permit the possession and use of this sealed source model with the registered device. I have reached out to the Ohio Department of Health's Bureau of Environmental Health and Radiation Protection, who have in turn contacted SenTek Corporation, for additional information or clarification regarding this matter.

At this time, I am suspending the review of your license application while I await additional or clarifying information. Due to the delay in receiving all of the additional or clarifying information necessary to complete the review of your license application, I cannot project when I will complete the review of your application request. Once all information is available, I will provide you with an updated date that I expect to complete the review.

Apart from a request initiated by SenTek Corporation to amend Ohio SS&D Registry Sheet No. OH-1189-D-101-B, you may request authorization to use the Eckert & Ziegler Isotope Products SIF.D3 sealed source with the SenTek Corporation Model TX-1 gauging device in accordance with the enclosed copy of Regulatory Information Summary 2013-01, "Use of Aftermarket Sealed Sources Registered Under 10 CFR 32.210."

If an adequate response is not received by April 21, 2022, I will administratively close or deny the request, as appropriate. Note that if your request is administratively closed, you may submit a new request later and refer to Control No. 628115 for the documentation you have already submitted. If you resubmit the application within 12 months from the date of your original new license application, any fees paid to date will be credited toward the application fee.

In accordance with 10 CFR §2.390 of NRC's "Rules of Practice and Procedure," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from ADAMS, accessible from the NRC Web site at <https://www.nrc.gov/reading-rm/adams.html>.

If you have any questions, please contact me at (630) 829-9737 or Jason.Kelly@nrc.gov.

Sincerely,

Jason M. Kelly, MPH
Health Physicist
Materials Licensing Branch

Docket No.: 030-39281

Control No.: 628115

Enclosure(s): As stated