

NRC FORM 241 (8-2002)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0013 Estimated burden per response to comply with this mandatory collection request: 15 minutes. This notification is required so that NRC may schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health and safety. Send comments regarding burden estimates to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0013), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.	
REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS <i>(Please read the instructions before completing this form)</i>					
1. NAME OF LICENSEE <i>(Person or firm proposing to conduct the activities described below)</i> SenTek Corporation			<input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> REVISION <input type="checkbox"/> CLARIFICATION		
3. ADDRESS OF LICENSEE <i>(Mailing address or other location where licensee may be located)</i> 4233 Eastland Square Drive Columbus, Ohio 43232			4. LICENSEE CONTACT AND TITLE Alfred A. Keefer, Radiation Safety Officer		
			5. TELEPHONE NUMBER <i>(Include Area Code)</i> (614) 856-1535		6. FACSIMILE NUMBER <i>(Include Area Code)</i> (614) 856-3193
7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20					
<input type="checkbox"/> WELL LOGGING		<input type="checkbox"/> LEAK TESTING AND/OR CALIBRATIONS		<input type="checkbox"/> TELETHERAPY/IRRADIATOR SERVICE	
<input type="checkbox"/> PORTABLE GAUGES		<input checked="" type="checkbox"/> OTHER (Specify) ⇒ <u>Leak Test, Source Removal, and Source Re-Installation</u>			
<input type="checkbox"/> RADIOGRAPHY ⇒		REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)			
8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE AK Steel 6500 North U.S. 231 Rockport, IN 47635			9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION <i>(Street and Number or other location. Give as complete an address or directions as possible.)</i> AK Steel 6500 North U.S. 231 Rockport, IN 47635		
			10. CLIENT TELEPHONE NUMBER <i>(Include Area Code)</i> (812) 362-6280		11. WORK LOCATION TELEPHONE NUMBER <i>(Include Area Code)</i> (812) 362-6280
12. DATES SCHEDULED		13. NUMBER OF WORK DAYS	14. ADD	15. DELETE	16. LOCATION REFERENCE NUMBER
FROM 07/07/2003	TO 07/07/2003	1	July 7, 2003		NUMBER TO BE ASSIGNED BY NRC <u>000844</u>
LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.					
17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED <i>(Include description of type and quantity of radioactive material, sealed sources, or devices to be used.)</i> Sealed Source: Am241 1 Ci TG-2 S-16 Total number of sources to be serviced - 5					
18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9. ABOVE. <i>(Four copies of the specific license must accompany the initial NRC Form 241.)</i>			LICENSE NUMBER 03214250002	STATE OH	EXPIRATION DATE Jan. 1, 2006
19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)					
I, THE UNDERSIGNED, HEREBY CERTIFY THAT:					
a. All information in this report is true and complete.					
b. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.					
c. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year.					
d. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters.					
e. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.					
CERTIFYING OFFICER - RSO or Management Representative <i>(Name and Title)</i> Alfred A. Keefer Radiation Safety Officer			SIGNATURE <i>Alfred A. Keefer</i>		DATE 07/01/2003
WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.					
FOR NRC USE ONLY	REVIEWING OFFICIAL <i>(Typed/Printed Name and Title)</i> Doris C. Gonzalez/NMPA		SIGNATURE <i>Doris C. Gonzalez</i>		DATE 7/3/03
					TOTAL USAGE -- DAYS TO DATE

**REPORT OF PROPOSED ACTIVITIES IN
 NON-AGREEMENT STATES, AREAS OF EXCLUSIVE
 FEDERAL JURISDICTION, OR OFFSHORE WATERS**

(Please read the instructions before completing this form)

1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below) SenTek Corporation		<input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> REVISION <input type="checkbox"/> CLARIFICATION	
3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located) 4233 Eastland Square Drive Columbus, Ohio 43232		4. LICENSEE CONTACT AND TITLE Alfred A. Keefer, Radiation Safety Officer	
		5. TELEPHONE NUMBER (Include Area Code) (614) 856-1535	6. FACSIMILE NUMBER (Include Area Code) (614) 856-3193

7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20

WELL LOGGING LEAK TESTING AND/OR CALIBRATIONS TELETHERAPY/IRRADIATOR SERVICE

PORTABLE GAUGES OTHER (Specify) ⇒ Leak Test, Source Removal, and Source Re-Installation

RADIOGRAPHY ⇒ REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)

8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE ALCOA Warrick Operations P.O. Box 10 Warrick County Highway 66 Newburgh, IN 47629-0010		9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION (Street and Number or other location. Give as complete an address or directions as possible.) ALCOA Warrick Operations Warrick County Highway 66 Newburgh, IN 47629-0010	
		10. CLIENT TELEPHONE NUMBER (Include Area Code) (812) 853-4710	11. WORK LOCATION TELEPHONE NUMBER (Include Area Code) (812) 853-4710

12. DATES SCHEDULED		13. NUMBER OF WORK DAYS	14. ADD	15. DELETE	16. LOCATION REFERENCE NUMBER
FROM 07/08/2003	TO 07/09/2003	2	July 8 & 9, 2003		NUMBER TO BE ASSIGNED BY NRC 000845

LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.

17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.)
Sealed Source: Sr90 300 mCi TG-2 S-18 Total number of sources to be serviced - 5

18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9. ABOVE. (Four copies of the specific license must accompany the initial NRC Form 241.)	LICENSE NUMBER 03214250002	STATE OH	EXPIRATION DATE Jan. 1, 2006
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19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT:

- a. All information in this report is true and complete.
- b. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.
- c. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year.
- d. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters.
- e. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.

CERTIFYING OFFICER - RSO or Management Representative (Name and Title) Alfred A. Keefer Radiation Safety Officer	SIGNATURE <i>Alfred A. Keefer</i>	DATE 07/01/2003
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WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

FOR NRC USE ONLY	REVIEWING OFFICIAL (Typed/Printed Name and Title) Doris C. Gonzalez/NMPA	SIGNATURE <i>Doris C. Gonzalez</i>	DATE 7/3/03	TOTAL USAGE -- DAYS TO DATE
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**OHIO DEPARTMENT OF HEALTH
LICENSE FOR RADIOACTIVE MATERIAL**

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as 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 applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE	LICENSE NUMBER
1. SenTek Corporation	3. 03214250002
2. 4233 Eastland Square Drive Columbus, OH 43232-5615	EXPIRATION DATE 4. January 1, 2006
	BUREAU DOCKET NUMBER 5. FTKV07-07-00

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Any radioactive material with atomic numbers 3 to 83, inclusive	A. Sample media	A. as needed (see items 9.A and 19, below)
B. Strontium-90	B. Sealed Sources	B. 18.5 GBq (500 mCi); no single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State
C. Americium-241	C. Sealed Sources	C. 185 GBq (5 Ci); no single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an Agreement State

9. Authorized Use

- A. Collection and analysis of samples incident to leak testing of sealed sources as a service for self and others.
- B., C. For use and/or possession in SenTek gauging devices, or other manufactures' gauging devices, incident to:
- i. Manufacturing and testing;
 - ii. Research and development as defined in OAC 3701:1-38-01;
 - iii. Installation and removal from devices;
 - iv. Installation, relocation, repair, and servicing of devices, including leak testing of sealed sources and radiation surveys of devices;
 - v. Distribution in devices;
 - vi. Integration with the licensee's or other manufacturer's gauging devices; and
 - vii. Temporary storage of obsolete and/or unwanted sources and/or transfer to authorized users or licensed disposal agents. Temporary storage of sources is not to exceed three years.

CONDITIONS

10. Licensed material may only be used at the licensee's facilities located at:
- A. 4233 Eastland Square Drive, Columbus, Ohio.
 - B. Temporary field locations throughout Ohio.
11. The Radiation Safety Officer (RSO) for this license is Alfred A. Keefer.

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIALS SUPPLEMENTARY SHEET	Page <u>2</u> of <u>3</u>
	License Number 03214250000
	Bureau Docket Number FTK107-07-00
	Amendment No 2

12. Licensed material shall only be used by, or under the supervision of, individuals who have been trained in accordance with the licensee's correspondence as listed in Item 21.
13. All sealed sources that are used or obtained shall have been evaluated under the provisions of OAC 3701:1-46-49 or by equivalent NRC or Agreement State regulation.
14.
 - A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six (6) months, or at such other interval as is specified in the registration certificate.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three (3) months.
 - C. In the absence of a certificate from a transferor indicating that a leak test has been made within the required leak test interval, a sealed source shall not be put into service until tested.
 - D. Sealed sources need not be tested if:
 - i) they contain only a radioactive gas; or
 - ii) the half-life of the isotope is 30 days or less; or
 - iii) they contain 3.7 MBq (100 uCi) or less of beta- or gamma-emitting, or 370 kBq (10 uCi) or less of alpha-emitting material; or
 - iv) they are in storage and are not being used. However, when they are removed from storage for use or transfer 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 ten years without being tested for leakage and/or contamination.
 - E. The leak test shall be capable of detecting the presence of 185 Bq (0.005 uCi) of radioactive material on the test sample. If the test reveals the presence of 185 Bq (0.005 uCi) or more of removable contamination, a report shall be filed with the Ohio Department of Health, and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Ohio Department of Health Regulations. The report shall be filed within 5 days of the date the leak test result is known with the Bureau of Radiation Protection – Ohio Department of Health, 246 N. High St., Bureau of Radiation Protection / 7th Floor 35 Bldg., P.O. Box 118, Columbus, Ohio 43216-0118. The report shall specify the source involved, the test results, and the corrective action taken
 - F. The licensee is authorized to collect leak test samples for analysis by the source or device manufacturer. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Director, the NRC, or an Agreement State, to perform such services
15. The licensee shall conduct a physical inventory every 6 months, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least three (3) years from the date of each inventory, and shall include: the quantities and kinds of licensed material, manufacturer's name and model numbers, location of the source(s) and/or device(s), and the date of the inventory.
16. Distribution to specific licensees:
 - A. Pursuant to OAC 3701:1-40-19, the licensee is authorized to distribute SenTek Corporation sources and devices, and other manufacturers' sources and devices containing sealed sources that have been registered pursuant to OAC 3701:1-46-49 or an equivalent Agreement State regulation. These devices and sealed sources shall be distributed to persons authorized to receive the licensed material pursuant to the terms and conditions of specific licenses issued by the Director, the NRC, or an Agreement State.
 - B. The licensee shall ensure that all devices and sealed sources distributed to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses have been registered with the NRC Sealed Source and Device Registry, and that the registration information is current and available for inspection.
17. Distribution to general licensees:
 - A. Pursuant to OAC 3701:1-40-19, the licensee is authorized to distribute SenTek Corporation sources and devices and other manufacturers' sources and devices containing sealed sources that have been registered pursuant to OAC 3701:1-46-30 or an equivalent NRC or Agreement State regulation. These devices and sealed sources shall be distributed to persons generally licensed pursuant to OAC 3701:1-46-05 or equivalent provisions of the regulations of NRC or any Agreement State.
 - B. The licensee shall ensure that all devices and sealed sources distributed to persons generally licensed pursuant to OAC 3701:1-46-05 have been registered with the NRC Sealed Source and Device Registry and that the information is current and available for inspection.

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIALS SUPPLEMENTARY SHEET	Page <u>3</u> of <u>3</u>
	License Number 03214250000
	Bureau Docket Number FTK107-07-00
	Amendment No. 2

- C. The licensee shall furnish to each general licensee to whom it transfers a device pursuant to the license, a copy of OAC 3701:1-46-05, 3701:1-38-16, 3701:1-40-21, and 3701:1-38-02.
 - D. No generally licensed device shall be installed by the licensee in such a manner or in such a location that any person could receive more than 5 mSv (0.5 rem) in a calendar year under ordinary circumstances of use.
 - E. After installation by the licensee of each device distributed to persons generally licensed pursuant to OAC 3701:1-46-05, the licensee shall conduct a radiation survey and shall assure that the levels of radiation do not exceed those specified in the license authorizing the manufacture or distribution of the installed gauge. The licensee shall furnish the general licensee a copy of the radiation survey report.
 - F. The licensee shall submit periodic material transfer reports to the Bureau as specified in OAC 3701:1-46-14.
18. The licensee may transport licensed material only in accordance with the provisions of OAC Chapter 3701:1-50.
19. In addition to the possession limits in item 8, the licensee shall further restrict the possession of sealed source licensed materials to quantities below the minimum limit specified in OAC 3701:1-40-17(C) for establishing decommissioning financial assurance.
20. *The following sealed source and device registration, along with the statements and representations in the registration application, are hereby incorporated into this license for approved manufacture and distribution in accordance with the device registration number:*
- A. *OH-1189-D-101-B dated May 30, 2003*
21. 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. The Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations:
- A. Application dated July 5, 2000; and
 - B. Letter correspondence dated October 24, 2000;
 - C. Letter correspondence dated January 20, 2003 and April 9, 2003.

For the Ohio Department of Health

DATE: 6/16/03

BY: *Reginald S. ...*
 Director, Ohio Department of Health