								<del>,</del>	
NRC FORM 241 U.S. NUCLEAR REGULATORY COMMISSION (7-1999)					APPROVED BY OMB: NO. 3160-0013 EXPIRES: 07/31/200 Estimated burden per response to comply with this mendatory collection request: 15 migratures. This partification is required so that NPC ma				
					schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health an				
REPORT OF PROPOSED ACTIVITIES IN					safety. Send comments regarding burden estimate to the Record Management Branch (T-8 Eb). U.S. Nuclear Regulatory Commission				
NON-AGREEMENT STATES, AREAS OF EXCLUSIVE					washington, DC 2055-0001, or by intermet e-mail to bis ignrc.got and to the Deak Officer, Office of information and Regulatory Affair NFCB-10202 (3150-0013) Office of Management and Budge				
FEDERAL JURISDICTION, OR OFFSHORE WATERS					APPROVED BY OMB: NO. 3160-0013  Extinated burden per response to comply with this mandatory collection request: 15 minutes. This notification is required so that NRC maschedule inspection of the activities to ensure that they are conducted is accordance with requirements for protection of the public heakth an safety. Send commente regarding burden estimate to the Record Management Branch (T-8 Eb). U.S. Nuclear Regulatory Commission Washington, DC 20555-0001, or by internet e-mail to bist @nrc.got 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, th NRC may not conduct or sponsor, and a person is not required it respond to the information collection.				
NAME OF LICENSEE (Person or firm proposing to conduct the solivities described below)					2. TYPE OF REPORT				
EA ENGINEERING SCIENTE AND TE HWOLLDRY 3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located)					INITIAL X REVISION CLARIFICATION  4. LICENSEE CONTACT AND TITLE				
15 LOVETON CIECLE									
SPARICS, MD 21152.					Cheisty S. PARLS, BSO.				
J					5. TELEPHONE NUMBER (include Area Code)  8. FACSIMILE NUMBER (include Area Code)				
					410771 4950 410771 4204				
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) ⇒									
RADIOGRAPHY   REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)									
8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE  9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION (Strool and Number or alther location. Give as complete an address or directions as possible.)									
U.S. ARMY CORPS OF ENGINEERS VICIOITY OF					SI. GEORGES BRIDGE. New CASTLE				
, (					DELAWARE. On-site XRF OPERATOR				
CITY CRESCENT BUILDING IS ME. MARK POSTAFIN								- ALL OFERNOR	
10 SOUTH HOWARD STEET							<del></del>		
BACTIMORE, Mb a1801 10. CLIENTTELEPH					HONE NUMBER 11. WORK LOCATION TELEPHONE NUMBER (Include Area Code)				
Ato: Ed Yakuchey			MBER OF	<del>-</del> 60			27-1734		
	SCHEDULED		CDAYS		ADD	16. DELE	TE	16. LOCATION REFERENCE NUMBER	
FROM 20	70							NUMBER TO BE ASSIGNED BY NRC	
6006,86 300F 6006,880 VAM		<u> </u>					000155		
LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-15 ABOVE.  17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED									
(include description of type and q	ventity of radioactive material, sealed s	ources, or d	evices to be	UsadJ			. ~~~		
CADMIUM-109 SPACED SOURCE (ISOTOPE PRODUCTS XFB SERIES CATSOLE 3805) NO SOURCE TO EXCEED 10 MILLICORIES. DEVICE USED: NITON 700 SERIES									
					OSEP:	Niton	70	O SERIES	
<ol> <li>AGREEMENT STATE SPECIFIC LI ACTIVITIES WHICH ARE THE SAN ABOVE. (Four copies of the sp.</li> </ol>	CENSE WHICH AUTHORIZES THE UNI ME, EXCEPT FOR LOCATION OF USE, I ocific license must accompany the	DERSIGNED AS SPECIFIE Initial NRC	TO CONDUC DINITEM 9. Form 241.)	π   '	LICENSE NUMBE	_	STATE MM	EXPIRATION DATE 3/31/2006	
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 180.20 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 of locations different from those described									
above or without NKC authorization, may subject me to enforcement action, including civil or criminal penalties.  CERTIFYING OFFICER - RSO or Management Representative (Name and Title)  SIGNATURE  DATE									
Christy S. Parks, RSO				Jc				5/15/00.	
NARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to he 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.									
	o any department or agency ( (Typed/Frinted Name and Title)	of the Unit		as to a	iny matter wi		sdiction	***	
SE ONLY JOHND	1 mema	No.		lu		S.21-7	202	TOTAL USAGE - DAYS TO DATE	
IRC FORM 241 (7-1999)		\ / <del>\</del> \						POINTED ON PERVISED DARCE	



### MARYLAND DEPARTMENT OF THE ENVIRONMENT

2500 Broening Highway • Baltimore, Maryland 21224 (410) 631-3000 • 1-800-633-6101 • http://www.mde.state.md.us

Parris N. Glendening Governor

APR 25 2002

Jane T. Nishida Secretary

Christy Shannon Parks, Radiation Safety Officer EA Engineering Science and Technology 15 Loveton Circle Sparks MD 21152

RE: Radioactive Material License #MD-05-179-01

Dear Ms. Parks:

Your requested amendment to radioactive materials license number MD-05-179-01 is enclosed. Please review it carefully to ensure that it reflects all modifications included in your facsimile received in this office on April 5, 2002.

Should you require further assistance, please contact Mcssrs. Carl E. Trump Jr. or Raymond E. Manley at (410) 631-3301. You may also reach our office toll-free (in Maryland only) by dialing 1-800-633-6101 and requesting extension 3301. Also, you may contact this office via facsimile at (410) 631-3198.

Sincerely

Roland G. Fletcher, Program Manager III

Radiological Health Program

RGF/REM/NAO/cc

Enclosures:

License amendment (02)

Code (03126)



### DEPARTMENT OF THE ENVIRONMENT RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 1 of 5

Pursuant to the Maryland Radiation Act, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

1. Name: EA Engineering Science and Technology 3. License No.: MD-05-179-01 2. Address: 15 Loveton Circle 4. Amendment No.: 02 Code (03126) Sparks, Maryland 21152 5. Expiration Date: March 31, 2006

- 6. Radioactive material (element and mass number)
- A. Cadmium-109
- B. Nickel-63
- C. Nickel-63

- 7. Chemical and/or physical form
- A. Sealed Source (Isotope Products XFB Series Capsule 3205)
- B. Sealed Source (Photovac 200155)
- C. Sealed Source (Varian 3380)

- 8. Maximum amount of activity which licensee may possess at any one time
- A. No source to exceed 10 millicuries
- B. No source to exceed 15 millicuries
- C. No source to exceed 15 millicuries

- 9. Authorized Use(s):
- A. For use in NITON Model XL-309 and XL700 Series X-Ray Fluorescence Analyzer to measure lead in paint in situ.
- B. For used in Photovac Voyager Portable Digital Gas Chromatograph to analyze samples.
- C. For use in portable digital gas chromatograph to analyze soil, ground water and air samples.



# DEPARTMENT OF THE ENVIRONMENT RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 2 of 5

License Number: MD-05-179-01

Amendment Number: 02 (CODE 03126)

#### LICENSE CONDITIONS

- 10. The authorized place of use is the licensee's address stated in Item 2 and temporary job sites of the licensee throughout Maryland. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address as is required by Section D.1301 of COMAR 26.12.01.01.
- 11A. The radiation protection program shall be under the supervision of Christy Shannon Parks.
- 11B. Radioactive material shall be used by or under the supervision and in the physical presence of an employee who:
  - has a certificate from a licensed training course on file with the licensee; and
  - the licensee has authorized to use radioactive material and has so notified the Radiological Health Program, in writing.
- 12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation."
- 13A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 13B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 13C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.



# RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 3 of 5

License Number: MD-05-179-01

Amendment Number: 02 (CODE 03126)

#### CONDITIONS CONTINUED

- 13D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 2500 Broening Highway, Baltimore, Maryland 21224 describing the equipment involved, the test results, and the corrective action taken.
- 13E. Test for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 14A. Each chromatography detector containing Nickel-63 shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the detector shall not be put into use until tested.
- 14B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the surfaces of the device in which the foil is mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Department.
- 14C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the foil from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five days of the test with the Administrator, Radiological Health Program, 2500 Broening Highway, Baltimore, Maryland 21224 describing the equipment involved, the test results, and the corrective action taken.
- 14D. Test for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 15. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.



# RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 4 of 5

License Number: MD-05-179-01

Amendment Number: 02 (CODE 03126)

#### CONDITIONS CONTINUED

- 16. Maintenance and repair of devices containing radioactive material and installation, replacement, and disposal of sealed sources shall be performed by NITON, Photovac or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 17. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.
- 18 Transportation of radioactive material in the State of Maryland shall be in compliance with Part T, Section T.5 "Transportation of Licensed Material" of COMAR 26.12.01.01.
- I9A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 19B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.



### DEPARTMENT OF THE ENVIRONMENT RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 5 of 5

License Number: MD-05-179-01

Amendment Number: 02 (CODE 03126)

#### CONDITIONS CONTINUED

- 20. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:
  - 1. application dated August 28, 2000.
  - 2. facsimile dated May 3, 2001
  - 3. facsimiles dated April 5, 2002

COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

April 12, 2002

NAO NAO VID

Radiological Health Program Manager III

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