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NAME OF LICENSEE (Person or ferm proposing	g to conduct the activities de	escribed bela	w)	TOSPOIN IO, ME	2, TYPE OF REPORT			
Earth Engineering & Sciences, Inc.				דואו 🗌				
ADORESS OF LICENSEE (Mailing address or other location where licensee may be located)				4. LICENSÉE CO	4. LICENSEE CONTACT AND TITLE			
3401 Carlins Park Drive				Edward	Edward H. Dalton, P.E., President			
Baltimore, MD 21215			(Include Aree	5. TELEPHONE NUMBER (Include Area Code) 410-466-1400 410-466-7371				
7 ACTIVITI	ES TO BE CONDUC		O THE GENE			410-466-7371		
WELL LOGGING	LEAK TESTING			<u> </u>		RADIATOR SERVICE		
PORTABLE GAUGES	OTHER (Specify	y) ⇒>>				2007		
	REGISTERED AS USER OF	PACKAGIN				REO REO		
B. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE Bechtel Aberdeen Bldg. E-2305-TA Bush River Road P.O. Box 222			Aberde Bush R	en Chemica iver Road	a, MD 2101	sposal Facility		
APG-Edgewood Area, MD	21010-0222			EPHONE NUMBER		CATION TELEPHONE NUMBER		
			(Include Are	(Code)	(Include /	(Tee Code)		
		13. NUI			1-41	10-612-4419 16. LOCATION		
12. DATES SCHEDULE	:D		DAYS	ADD	DELETE	REFERENCE NUMBER		
6 Mar 2002 26 Aug 2002		17	170			NUMBER TO BE ASSIGNED BY NRC		
LIST ADDITIONAL WORK SITT LIST RADIOACTIVE MATERIAL, WHICH WILL (Include description of type and quantity of re- Sealed Sources – Ces: Ame	BE POSSESSED, USED, I dioactive material, sesied a	NSTALLED. Sources, or d i)	SERVICED, OR T levices to be used	STED	ON CONTAINED	IN ITEMS 9-16 ABOVE.		
AGREEMENT STATE SPECIFIC LICENSE WH ACTIVITIES WHICH ARE THE SAME, EXCEPT	ICH AUTHORIZES THE UN FOR LOCATION OF USE, so must accompany the	DERSIGNED AS SPECIFIE	TO CONDUCT DINITEM 9. Form 241.)	MD-07-11				
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## DEPARTMENT OF THE ENVIRONMENT RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

Page 1 of 4 pages

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.

In accordance with license application dated July 23, 1998, License MD-07-118-01 is hereby renewed.

1.	Name: Earth Engineer	ng & Sciences Inc.	3. License No	<b>MD-07-118-01</b>
2.	Address: 3401 Carlins P Baltimore, Mar		<ol> <li>Amendmer</li> <li>Expiration</li> </ol>	CODE 03121
6.	Radioactive material element & mass number:	7. Chemical a form:	nd/or physical	8. Maximum amount of radioactivity which licensee may possess at any on time:
<b>A</b> .	Cesium-137	A. Sealed Source (	Troxler dwg A102112)	A. No source to exceed 10 millicuries
B.	Americium-241:Be	B. Sealed Source (	Troxler dwg A102451)	B. No source to exceed 50 millicuries
C.	Hydrogen-3	C. Sealed Source (	Safety Light Corp. Model 508-3)	C. No source to exceed 150 millicuries

9. Authorized Use(s):

A&B. For use in Troxler 3400 Series moisture/density gauges to measure construction materials.

C. For use in Sentex Sensing Technology Inc. portable Scentograph for analysis of vapors in the field.

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		State of	Maryland
		DEPARTMENT OF TH RADIOLOGICAL HE RADIOACTIVE MAT	ALTH PROGRAM
			Page 2 of 4 pages
Licens	e No.:	MD-07-118-01	Amendment No.: 21
		` <u>CONDI</u>	TIONS
10.	Maryl		ed in Item 2 and temporary job sites of the licensee throughout ealth Program 30 days prior to vacating a permanent use address 01.
11A.	The ra	adiation protection program shall be under the supe	ervision of Edward H. Dalton.
11B.	Radio	active material shall be used by or under the super	vision and in the physical presence of an employee who:
	1.	has a certificate from a licensed training course	on file with the licensee; and
	2.	the licensee has authorized to use radioactive may writing.	aterial and has so notified the Radiological Health Program, in
12.	The lie Radiat	censee shall comply with all appropriate provision tion."	s of COMAR 26.12.01.01 "Regulations for Control of Ionizing
13A.	and in In the transfe	any form other than gas shall be tested for leakage absence of a certificate from a transferor indication	r than Hydrogen-3 with a half-life greater than thirty (30) days e and/or contamination at intervals not to exceed six (6) months. ng that a test has been made within six (6) months prior to the tested. If there is reason to suspect that a sealed source might d for leakage before further use.
13B.	test sa	est shall be capable of detecting the presence of 0.0 mple shall be taken from the sealed source or from nently mounted or stored on which one might expe	005 microcurie of radioactive material on the test sample. The n the surfaces of a device in which the sealed source is ect contamination to accumulate.
13C.	Recor	ds of leak tests shall be kept in units of microcurie	s and maintained for inspection by the Department.
13D.	withdr accord Radio	raw the sealed source from use and shall cause it to lance with Department regulations. A report shall	ore of removable contamination, the licensee shall immediately o be decontaminated and repaired or to be disposed of in be filed within five (5) days of the test with the Administrator, Baltimore, Maryland 21224 describing the equipment involved,
13E.	Test fo the De	or leakage and/or contamination shall be performe epartment, the U.S. Nuclear Regulatory Commissi	d by the licensee or by other persons specifically authorized by on or another Agreement State to perform such services.

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

Page 3 of 4 pages

License No.:	MD-07-118-01	Amendment No.:	21	
	CONDITION	IS CONTINUED		

- 14. Maintenance and repair of devices containing radioactive material and installation, replacement, and disposal of sealed sources shall be performed by Troxler or Sentex 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.
- 16. 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.
- 17A. 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.
- 17B. The licensee shall transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Section T.5, "Transportation of Licensed Material" of COMAR 26.12.01.01.
- 18A. 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.
- 18B. 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.

RAI	ate of Maryland DEPARTMENT OF THE ENVIRONMENT DIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE
	Page 4 of 4 pages
License No: MD-07-118-01	Amendment No.: 21
	CONDITIONS CONTINUED
authorized by this license in acco July 23, 1998. COMAR 26.12.0	therwise by this license, the licensee shall possess and use radioactive material rdance with statements representations, and procedures contained in application dated 1.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's ers, unless the statements are more restrictive than the regulations.
	For The Maryland Department of the Environment
November 29, 1999	Roland G. Fletcher Radiological Health Program Manager
NAO VAO 11/29/69 REM 12/20/99	

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> DEPARTMENT OF THE ENVIRONMENT RADIOLOGICAL HEALTH PROGRAM RADIOACTIVE MATERIAL LICENSE

> > Page 1 of 1 page

License No: MD-07-118-01		Amendment No.:22 CODE 03120		
Earth Engineering & Scie 3401 Carlins Park Drive Baltimore, Maryland 212				
In accordance with letter follows:	dated June 22, 2000, Radioactive	Material License Number MD-07-118-01 is amended as		
<u>Condition 6</u> to add: Radioactive Material (Element and Mass number)	<u>Condition 7 to add:</u> Chemical and/or physical form	<u>Condition 8</u> to add: Maximum amount of radioactivity which licensee may possess at any one time		
C Cesium - 137	C. Sealed Sources: <i>Amersham</i> Model # CDCW556 Capsule type:X.1218 Model # CDCW Capsule type XN.30	C. No source to exceed 9 millicuries		
	<i>Isotope Products</i> Model # HEG-137-8M Capsule type 3024			
Condition 9 to add:	Authorized use			
	C. For use in Troxler Thin L	ayer Density Gauge Model 4640B		
		DEPARTMENT OF THE ENVIRONMENT		
July 13, 2000	poloud	J. Flotale		
	Roland G. Fletcher Radiological Health F	rogram Manager		
BJP - 319 7-13-	2000			
BJP - 3JP 7-13-2 KEI 7/18/20	0'50			