NRC FORM 313 U.S. NUCLEAR Red LATORY COMMISSION	APPROVED BY OMB: NO. 0120 EXPIRES: 08/31/2002	
(8-2000) 10 CFR 30, 32, 33, 4 34, 35, 36, 39, and 40	Estimated burden per response to comply with this mandatory collection request: 7.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet empilies to the the Commendation and	
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GU SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO	IDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. THE NRC OFFICE SPECIFIED BELOW.	
APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:		
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001	APPLICATIONS TO: MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:		
IF YOU ARE LOCATED IN:	ALASKA ARIZONA ARKANSAS CALIFORNIA COLORADO, HAWAII, IDAHO, KANSAS,	
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:	LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR	
LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19408-1415	U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400	
ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:		
SAM NUNN ATLANTA FEDERAL CENTER U. S. NUCLEAR REGULATORY COMMISSION, REGION II 61 FORSYTH STREET, S.W., SUITE 23185 ATLANTA, GEORGIA 30303-8831		
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEA MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION JURISDIC	TIONS.	
1. THIS IS AN APPLICATION FOR (Check eppropriate item)		
A. NEW LICENSE	HIGHWAY AND TRANSPORTATION AUTHORITY	
B. AMENDMENT TO LICENSE NUMBER	PO BOX 42007	
X C. RENEWAL OF LICENSE NUMBER 52-24983-01	SAN JUAN, PUERTO RICO 00940-2007	
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	
MATERIAL TESTING LAB.	MR. JOSE A. ALVAREZ	
ROAD #28 END	TELEPHONE NUMBER	
NFAR BY REGIONAL JAIL	(787) 729-1592 Office (787) 396-1831 (Cell)	
BAYAMON, PR 00960 SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORM	ATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.	
 RADIOACTIVE MATERIAL Element and mass number; b. chemical and/or physical form; and c. mabdmum amount which will be possessed at any one time. 	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.	
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AEAS.	
9. FACILITIES AND EQUIPMENT.		
11. WASTE MANAGEMENT.	FEE CATEGORY AMOUNT \$	
UPON THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34 CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 14, U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62, STAT, 749 MAKES IT A C	THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN 1, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO	
ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN	IS JURISUCTION. DATE DATE	
	for a rea see 07-11-03	
	CK NUMBER COMMENTS	
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Appendix M

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Review Checklist for Portable Gauge Application

ITEM 1: ACTION TYPE

ACTION TYPE:	ADMINISTRATIVE REVIEW:
□ New	Current Guidance Used
□ Amendment	References in Application Based On Current
∅ Renewal	Regulations

ITEM 2: LEGAL IDENTITY

NAME:	HIGHWAY AND TRANSPORTATION AUTHORITY
1	

ITEMS 2 AND 3: ADDRESS

STORAGE & LOCATION OF USE MATERIAL TESTING LAB. ROAD #28 END LUCHETTI INDUSTRIAL PARK NEAR BY REGIONAL JAIL, BAYAMON PR 0096	
Temporary Job Sites 🖾 YES 🗇 NO	

ITEM 4: PERSON TO BE CONTACTED ABOUT THIS APPLICATION

CONTACT PERSON:	MR. JOSE A. ALVAREZ	
TELEPHONE:	(787) 729-1592 (office) (787) 396-1831	(Cel

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ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND USES

Yes	No	Radioisotope	Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
Х		Cesium-137	Sealed source manufacturer or distributor and model number: 3411 - 3430 Device Troxler manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration (SSDR) Certificate	Yes Specific description of the gauge use: <u>To measure</u> <u>properties</u> of material.	□ Not applicable □ Uses are:
× *		Americium- 241	Sealed source manufacturer or distributor and model number: 3411 - 3430 Device Troxle manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes Specific description of the gauge use: <u>To measure</u> properties of material.	 Not applicable Uses are:
	X	Californium- 252	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes Specific description of the gauge use:	□ Not applicable □ Uses are:

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Yes	No	Radioisotope	Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
X		Other Isotope (Specify): Americium 241	Sealed source manufacturer or distributor and model number; <u>AC-2/CPN</u> Device manufacturer or distributor and model number;	Not to exceed either the maximum activity per source or maximum activity per device as specified in SSDR Certificate	Yes Specific description of the gauge use:	 Not applicable Uses are:

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ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE MANAGEMENT

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APP	LICANT	'S RESP	ONSE
		YES	NO	OTHER	
				YES	NO
ITEM 7 INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE - RADIATION SAFETY OFFICER NAME_MR. JOSE A. ALVARE	 Before obtaining licensed materials, the proposed KSO will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556. Vol. 1, Rev. 1, dated November 2001. Optional Response Criteria for Acceptable Training Courses for Radiation Safety Officer/Portable Gauge Users Course Content 1.5 to 2 hours of radiation safety and regulatory requirements; 1.5 to 2 hours practical explanation of gauge theory and operation (including test runs). Course Examination 25- to 50-question written (closed book) test – 70 percent grade. Course Instructor Qualifications Bachelor's degree in a physical or life science or engineering with successful completion of both a portable gauge user course and 8-hour radiation safety course and 8 hours hands-on of experience with portable gauges. 	X X X X			
	OR				

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPI	ACANT	'S RESP	ONSE	
		YES	NO	o OTHER		
				YES	NO	
ITEM 7 (CONTINUED)	 An individual with the following training: Successful completion of portable gauge user course; 	X	X			
	 Successful completion of 40-hour radiation safety course; 	X				
	 30 hours of hands-on experience with portable gauges. 					
ITEM 8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	Before using licensed materials, authorized users will have successfully completed one of the training courses described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.					
	Optional Response Review optional response against criteria listed under Item 7.					
ITEM 9 FACILITIES AND EQUIPMENT	No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program – Public Dose" and "Radiation Safety Program – Operating and Emergency Procedures."	Separate Item 9 Response Need Not By Submitted With Application		Need th		
ITEM 10 RADIATION SAFETY PROGRAM – AUDIT PROGRAM	The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.	Need I	Not Be S Appli	Submitted cation	With	
ITEM 10 RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES	The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application. However, when the license expires or at the time the licensee ceases operations, NRC Form 314 must be submitted.	Need No Individ	lual Wit	bmitted W 1 the Follo ning	/ith An wing	
ITEM 10 RADIATION SAFETY PROGRAM – INSTRUMENTS	We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001, in the event of an incident.	X			<u>i</u>	
	Optional Response A radiation survey meter should satisfy the following criteria: • Be capable of detecting gamma radiation;					
	Be checked for functionality before use.			· [

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ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APP	LICANT'	S RESP	ONSE
		YES	NO	OT	HER
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM – MATERIAL RECEIPT AND ACCOUNTABILITY	Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license. <i>Optional Response</i> Frequency and procedures to ensure no gauge is lost, stolen or misplaced, and if possession exceeds threshold, comply with financial assurance requirements in 10 CFR 30.35.	X			
ITEM 10 RADIATION SAFETY PROGRAM – OCCUPATIONAL DOSIMETRY	Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20 or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor. Optional Response Alternative response demonstrates compliance with 10 CFR Part 20 requirements.	X			
ITEM 10 RADIATION SAFETY PROGRAM – PUBLIC DOSE	The applicant is <i>not</i> required to submit a response to public dose section during the licensing phase. This matter will be examined during an inspection.	N	eed Not B With A _I	e Submiti plication	ed

ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APP	LICANT	'S RESP	ONSE
		YES	NO	οτι	HER
				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM – OPERATING & EMERGENCY PROCEDURES	We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001 and provide copies of these procedures to all gauge users and at each job site.	X			
	OR				
	Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled "Radiation Safety Program – Operating and Emergency Procedures" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.	X		-	
	 Optional Response Instructions to use gauge and perform routine maintenance per manufacturer's recommendations and instructions; 	X			
	 Instructions to maintain security during storage and transportation; 	X			
	• Instructions to keep the gauge under control and immediate surveillance during use;	X			
	Steps to take to keep radiation exposures ALARA;	X			
	• Steps to maintain accountability during use;	X			
	• Steps to control access to damaged gauge;	X			
	 Steps to take, and whom to contact, when a gauge has been damaged; 	X			
	• If gauges are used for measurements greater than 3 feet beneath the surface: use of surface casing or other procedures to ensure free movement of source in hole; instructions, procedures to retrieve a stuck source; NRC reporting requirements;	X			
	 Copies provided to personnel and available at each job site. 	X			

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ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APP	JCANT	'S RESP	ONSE
		YES	NO	OT	HER
<u> </u>				YES	NO
ITEM 10 RADIATION SAFETY PROGRAM – LEAK TEST	Leak tests will be performed at intervals approved by NRC or an Agreements State and will be specified in the SSDR Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreements State to provide leak test kits to other licensees and according to the kit supplier's instructions.	×			
	Optional Response Provide the information in Appendix J supporting a request to perform leak testing and sample analysis: Individual who will make the analysis; qualifications to make quantitative measurements;				
	 Leak test frequency as specified in the appropriate SSDR Sheet; 				
	 How and where test samples taken; materials to be used; methods of handling samples to prevent or minimize exposure to personnel; 				
	• Type of instrument(s) used, counting efficiency, and minimum levels of detection for each radionuclide.				
	Note: An instrument capable of making quantitative measurements should be used; hand-held survey meters will not normally be considered adequate for measurements.				
	 Standard calibration sources including for each: the radionuclide, quantity, accuracy, and traceability to primary radiation standards; 				
	Note: Accuracy of standards should be within <u>+</u> 5 percent of the stated value and traceable to a primary radiation standard such as those maintained by the National Institutes of Standards and Technology (NIST).				
	 Sample calculation to convert measurement data to becquerels (or microcuries); 				
	 Instructions on actions, notifications regarding leaking source. 				

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ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE				
		YES	NO	OTHER		
				YES	NO	
ITEM 10 RADIATION SAFETY PROGRAM - MAINTENANCE	Routine Cleaning and Lubrication We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.					
	• Considers ALARA;					
	• Ensures gauge functions as designed;					
	• Ensures source integrity not compromised.					
	Non-Routine Maintenance We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.					
	Optional Response Provide the information listed in Appendix G supporting a request to perform non-routine maintenance in-house.					
	 Types of work to be performed; Who will perform maintenance, training, experience, why competent; 					
	 Handling procedures: doses to public, personnel ALARA and regulatory limits; security; posting; manufacturing instructions and recommendations; 					
	• Use of whole-body and extremity monitoring or evaluation to demonstrate that individuals are not likely to receive greater than 10 percent of allowable limits;					
	 Possess survey instrument (detects gamma radiation; range 1-50 mrem/hr; annual calibration w/point source at 2 points/scale; readings within ±20 percent; calibrated by NRC/Agreement State licensee; checked before use); 					
	• 10 CFR 20.1301 surveys (when and where instrument survey performed, records for 3 years).					

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ITEM NUMBER AND TITLE	SUGGESTED RESPONSE	APPLICANT'S RESPONSE				
		YES	NO	OTHER		
				YES	NO	
ITEM 10 RADIATION SAFETY PROGRAM – TRANSPORTATION	The applicant is <i>not</i> required to submit a response to transportation section during the licensing process. However, this issue will be reviewed during inspection.	Need Not Be Submitted With Application				
ITEM 11 WASTE DISPOSAL – GAUGE DISPOSAL AND TRANSFER	The applicant is <i>not</i> required to submit a response to waste management section during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation safety program.	Need Not Be Submitted With Application				

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