NAC * ORM 313 10 CFR 30, 32, 33, 34. 35 and 40 APPLICATION FOR	U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OME 3150-0120 Explime 5-31-87			
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DE OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BE	TAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES			
OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BE APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH: U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY. NMSS WASHINGTON. DC 20556 ALL OTHER PERSONS FILE APPLICATIONS AS FCILLOWS. IF YOU ARE LOCATED IN. CONNECTICUT, DELAW 'RE, DISTRICT OF COLUMBIA, MAINE, MARYLAND. MASSACHUSETTS. NEW HAMPSHIRE. NEW JERSEY. NEW YORK, PENNSYLVANIA. RHODE ISLAND, OR VI RMONT, SEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION. REGION I NUCCEAR MATERIALS SAFETY SECTION B S01 PARK AVENUE KING OF PRUSSIA, PA 19408 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CARODINA, TENNESSEE. VIRGINIA. VIRGIN ISLANDS. OR WEST VIRGINIA, SEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION. REGION I NUCCEAR MATERIALS SAFETY SECTION B S01 PARK AVENUE KING OF PRUSSIA, PA 19408 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE. VIRGINIA. VIRGIN ISLANDS. OR WEST VIRGINIA, SEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION. REGION II NUCCEAR MATERIALS SAFETY SECTION 10. MARIETTA STREET, SUITE 2900 ATLANTA, GA 30323	 IF YOU ARE LOCATED IN: IF YOU ARE LOCATED IN: ILLINDIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 799 RODSEVELT ROAD GLEN ELLYN, IL 60137 ARK/INSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TX 76011 ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION V NUCLEAR MATERIALS SAFETY SECTION 1450 MARIA LANE, SUITE 210 WALNUT CREEK, CA 94566 EGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zie Code) DAYTON TESTING LABORATURY, INC. 5551 Webster Street Dayton, Ohio 45414 (513), 890-6350 			
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION. 1. THIS IS AN APPLICATION FOR ICHAEL Appropriate (4000) A. NEW LICENSE B. AMENDMENT TO LICENSE NUMBER				
5551 Webster Street, Dayton, Ohio, and var * NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Gerald P. Lee, President	ious construction sites in Ohio TELEPHONE NUMBER (513)890-6350			
SUBMIT ITEMS 5 THROUGH 11 ON 8% x 11" PAPER, THE TYPE AND SCOPE OF INFORMATI 5. RADIOACTIVE MATERIAL 8. Element and mass number, b. chemical and/or physical form, and c. maximum amount	ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED.			
7. INDIVIDUALISI RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE	8 TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS			
9 FACILITIES AND EQUIPMENT 8 BO4250306 B70911 BB04250306 DDR	10. RADIATION SAFETY PROGRAM			
13. CERTIFICATION. (Musice completed by policent) THE APPLICANT UNDERSTANDS THE BINDING UPON THE APPLICANT THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PAR IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF WARNING. 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 52 STAT 749 MAKES IT A TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WI SIGNATURE-CERTIFYING OFFICER WARL P. LEE Gerald P. LEE	THE LATEGORY INCIDENT INCIDENT INCOMENTATIONS MADE IN THIS APPLICATION ARE OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS TS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION THIN ITS JURISDICTION TITLE DATE President 7-6-87			
I. ANYWAL RECEIPTS b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors) \$250K \$1M-3.5M \$250K-500K \$3.5M-7M \$500K-750K \$7M-10M \$750K-1M \$510M	V ECONOMIC DATA d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NBC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulation) definit it to protect confidential commancial or financial-propriatery-information furnished to the agency in confidence) YES NO			
FOR NR	APPROVED BY			
REN DUL-7AIT 3P AMOUNT RECEIVED CHECK NUMBER FISO (\$30 refuend) 11554 CONTR	ROL NO. 83823 7/17/57			

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Item 5, Radioactive Material

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Two (2) Campbell Pacific Nuclear Density Devices, MC-2

Radionuclei	Form		Maximum Amount
Cesium 137	Sealed source, CPN Drawing CPN-131	No	single source to exceed 10 mci
Americium 241/Be	Sealed source, CPN Drawing CPN-131	No	single source to exceed 50 mci
Three (3) Troxler	Nuclear Density Devices, Model	341	1
Radionuclei	Form		Maximum Amount
Cesium 137	Sealed source	No	single source to

Sealed source

Americinum

No single source to exceed 50 mci

Item 6, Purpose for Which Licensed Material Will Be Used

For use in CPN Corporation MC-Series and Troxler Nuclear Model 3411 moisture density gauges to measure various properties of construction and other materials.

Item 7, Individuals Responsible for Radiation Safety Program and Their Training and Experience

Lonnie W. Burton, Radiation Safety Officer Troxler Electronic Labs - formal training course, standard two (2) days, 7 plus year's experience

David L. Upp Troxler Electronic Labs - formal training course, standard two (2) days, 5 year's experience

Henry C. Dishman Troxler Electronic Labs - formal training course standard two (2) days, 3 plus year's experience

- Farrell W. Humphreys Troxler Electronic Labs - formal training course, standard one (1) day, 1 year's experience
- Item 8, Training for Individuals Working in or Frequenting Restricted Areas Training described in Item 7, above

Item 9, Facilities and equipment See enclosed plan.

Item 10, Radiation Safety Program See enclosed plan.

Item 11, Waste Management

No new materials have been procured by licensee.

No materials have been transferred.

No material has been disposed of.

CONTROL NO. 83823

DAYTON TESTING LABORATORY, INC.

· . G.	P.L.	DATE	
CHKD.	BY1	DATE	•

SUBJECT Facilities & Equipment, Dayton Testing Laboratory, Inc. SHEET NO. 1 OF 1

ITEM 9





Note: Desks used 1 Hour per Day

Scale 1" = 10' ±

ITEM 10 - RADIATION PROTECTION PROGRAM

1. The Nuclear Gauge will be securely restrained in vehicles to prevent theft or loss while unattended or in an accident. Metal clamps, chains or bars will be used.

2. The Nuclear Gauge and its shipping case will be hidden from view while in an unattended vehicle to minimize attractive nuisance value.

3. The Nuclear Gauge will be used only by users specifically authorized in writing by the Radiation Safety Officer.

4. All users will wear film badges when using the Nuclear Gauge. <u>Badges will</u> be stored away from gauges when not in use and will be protected from external heat.

5. Radiation labels or placards will be removed from vehicles when not actually transporting the Nuclear Gauge to avoid confusion should an accident occur to the vehicle when it does not contain the gauge.

6. At the conclusion of each work day, the Nuclear Gauge will be returned to the laboratory and placed in its regular storage area and will be securely locked when not in use. Keys will be restricted to authorized users only.

 the gauge will be leak tested every six (6) months, using approved Nuclear test kits. Results will be maintained for permanent record and inspection.

8. In the event of emergency with possible damage to the radioactive source:

- * FREEZE SITE STOP ANY INVOLVED VEHICLE
- * RESTRICT ACCESS TO 10' FROM THE GAUGE, VEHICLES OR TRACKS
- CALL FOR COMPETENT, TRAINED ASSISTANCE:
 Campbell Pacific Nuclear Factory (415) 228-9770
 Troxler Electronic Laboratories (919) 549-8661

The Ohio Lepartment of Health, Radiological Health Unit, would also be notified, as well as the company Radiological Safety Officer.

The instrument would be removed from the site, using a shovel to place the instrument in a metal drum where it would be transported back to the laboratory in a pickup truck. The site would be surveyed to determine if a breakage has occured.

9. Disposal of the source or of the device will not be done by the licensee, directly. In the event of emergency disposal, we shall contact the factory or other authorized disposal facility for instructions.