INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APP' ICATION GUIDE FOR OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED	DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIL			
APPLICATIONS FOR DISTRIBUTION OF FUEL AND THE NAC OFFICE SPECIFIED	BELOW.			
APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH				
WASHINGTON, DC 20555	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WIECONT IN, SEND APPLICATIONS TO:			
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN. LONNECTICUT, TCLAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSET, NEW HAMPSHIRE, NEW JEDECH MAINE, MARYLAND,	U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 759 RODSEVELT ROAD GLEN ELLYN, IL 60137 ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH PAKOTA, TSXAS, UTAH, OR WYDMING, BEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE SUIT (1000			
HODE ISLAND. ON "ERMONT. SEND AP LICATIONS TO				
475 ALLENDALE ROAD SAFETY SECTION B				
ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA. PUERTO RICO, BOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR MEST VIRGINIA, SEND APPLIC, TIONS TO:	ARLINGTON, TX 76011			
U.S. NUCLEAR REGULATORY COMMISSION. REGION II NUCEAR MATERIALS SAFETY SECTION DI MARIETTA STREET SUITE SON	ALASKA, AHIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TEARITORIES 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			
ATLANTA, GA 2005				
ERSO'S LOCATED IN AGREEMENT PLATER TIME AND AND AND	1			
STATES SUBJECT TO U.S. NUCLEAR REGULATERY COMMISSION JURISDICTION.	REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATE			
THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT //minte 24 Conti			
A NEW L'JENSE	Tennessee Valley Authority			
X C. RENEWAL OF LICENSE NUMBER 41-08165-08	Senior Vice President, Nuclear Power			
A STATUTE OF COLUMNER	1101 Market Street			
ADDRESSIESI WHERE LICENSED MATERIAL WILL BE USED OR POSSES D.	Chattanooga, TN 37402-2801			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support.	NI RA			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, DEMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM TH RADIOACTIVE MATERIAL • Element and main number & chemical and/or aburation	NLRA (615) 751-2693			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUNIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM TO	NLRA (615) 751-2693 NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, DEMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TH RADIOACTIVE MATERIAL * Element and mass number, D. chemical and/or physical form, and c. maximum amount which will be possessed at say and time. INDIVIDUALISI RESPONSIBLE FOR TADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.	NLRA (615) 751-2693 NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL JE USED.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, BMIT ITEMS & THROUGH II ON BX & II" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL . Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possible at any are time. INDIVIDUALIS: RESPONSIBLE FOR ANDIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. FACILITIES AND EQUIPMENT.	NLRA TELEPHONE NUMBER NLRA (615) 751-2693 ION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAIHING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, N 10. RADIATION SAFETY PROGRAM.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JEMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. NDIVIDUALISI RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR FRAINING AND EXPERIENCE. FACILITIES AND EQUIPMENT.	INTERE THE CHEE UNITED STATES. TELEPHONE NUMBER NLRA (615) 751-2693 ION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAIHING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED. N. 10. RADIATION SAFETY PROGRAM 12. LICENSEE FEES ISM TO CFR 170 and Section 170 311 THE CATEGORY 14. MOUNT 15. CATEGORY 15.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUSMIT ITEMS & THROUGH 11 ON B'A & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIDACTIVE MATERIAL * Element and mass number, D. chemical and/or physical form, and c. maximum amount which will be possessed at any ane time. INDIVIDUALISI RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. FACILITIES AND EQUIPMENT. WASTE MANAGEMENT. CERTIFICATION. IMUST be completed by applicantly THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT	INTELEPTION ENDITED STATES.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, UBMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL * Element and mass number, D. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. INDIVIDUALISI RESPONSIBLE FOR ADDIATION SAFETY PROGRAM AND THEIR FACILITIES AND EXPERIENCE. FACILITIES AND EQUIPMENT. WASTE MANAGEMENT. CERTIFICATION. IMUST be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF O PREPARED IN COMPORMITY WITH TILLE 10. CODE OF FEDERAL REGULATION. PART IS TRUE AND EQUIPMENT OF THEIR KNOWLEDGE AND BELIEF.	In the seperic of the section 170 311 FEE CATEGORY N/A IS ADD REPROSENTATIONS MADE IN THIS APPLICATION ARE IS JO, J2, J3, J4, J5, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. IS THE APPLICATION IN THE SECTION SATES AND ADD THAT ALL INFORMATION CONTAINED HEREIN. IS J0, J2, J3, J4, J5, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. IS J0, J2, J3, J4, J5, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. IS J0, J2, J3, J4, J5, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. IS J0, J2, J3, J4, J5, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, UBMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TO RADIDACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be posseded at any one time. INDIVIDUALISI RESPONSIBLE FOW RADIATION SAFETY PROGP AM AND THEIR THAINING AND EXPERIENCE. FACILITIES AND EQUIPMENT. WASTE MANAGEMENT. CERTIFICATION. IMUST be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FIDERAL REGULATIONS. PART STATUS AND CESTION HE BEST OF THEIR KHOWLEDGE AND BELIEF. WARNING. 18 US C. SECTION 1001 ACT OF JUNE 25, 1946, 62 STAT. 749 MAKES IT A CO TO ANY DEPARTMENT ON AGENCY OF THE UNITED STATES AS TO ANY MATER WITH	In the seperies of the section 170 million of the section of the sec			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUNIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL * Element and mass number, D. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. INDIVIDUALISI RESPONSIBLE FOR ADDIATION SAFETY PROGP AM AND THEIR FRAINING AND EXPERIENCE. FACILITIES AND EQUIPMENT. WASTE MANAGEMENT. CERTIFICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS, PART IS THUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS. PART IS THUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS. PART IS THUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FEDERAL AREGULATIONS. PART IS THUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BEHALF J PREPARED IN CONFORMITY WITH TITLE 10. TOP JUNE 25. 1946, 62 STAT. JA9 MAKES IT A CI TO ANY DEPARTMENT ON AGENCY OF THEUN STATES AND THE ATTERNED	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 NN TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED. N. 10. RADIATION SAFETY PROGRAM 12. LICENSCE FEES ISM TO CFA 172 and Section 170 311 FEE CATEGORY N/A 12. LICENSCE FEES ISM TO CFA 172 and Section 170 311 FEE CATEGORY N/A 13. LICENSCE FEES ISM TO CFA 172 and Section 170 311 FEE CATEGORY N/A 14. LISTATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 15. 30. 32. 33. 34. 35. AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TITLE			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUNIT ITEMS 5 THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TO RADIDACTIVE MATERIAL • Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be posseded at any and time. INDIVIDUALISI RESPONSIBLE FOW RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE. PACILITIES AND EQUIPHIENT. WASTE MANAGEMENT. CERTIFICATION. IMUSE be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF J PREPARED IN COMFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS. PART IS TRUE AND CONFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS. PART WASTE MANAGEMENT OF HE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING. 18 U S C. SECTION 1001 ACT OF JUNE 25, 1946 62 STAT. 749 MAKES IT A CO	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 (710) 710 (710) (710			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, MANT ITEMS 5 THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount when will be possible at any and time. NDIVIDUALISI RESPONSIBLE FOR ADDIATION SAFETY PROGP AM AND THEIR FACILITIES AND EQUIPMENT. CERTIFICATION. MUST be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. CERTIFICATION. MUST be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEMALF. 3 PREPARED IN COAFORMITY WITH TITLE 10. COOPE OF FEDERAL REGULATIONS. PART STRUE AND COAFORMITY WITH TITLE 10 COOPE OF FEDERAL REGULATIONS. PART WAANING. 18 U.S.C. SECTION 1001 ACT OF JUNE 25. 1946 6275TAT. 749 MARES IT A CL TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH NATURE -CERTIFYING OFFICER TYPED/PRINTED NAME M. J. RAY FOR NRC	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, NOR 10. RADIATION SAFETY PROGRAM 12. LICENSCE FEES ISM TO CFR 17J and Section 170 311 FEE CATEGORY N/A 12. LICENSCE FEES ISM TO CFR 17J and Section 170 311 FEE CATEGORY N/A 13. LICENSCE FEES ISM TO CFR 17J and Section 170 311 FEE CATEGORY N/A 14. LISTATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 15. 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TITLE			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUNIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIDACTIVE MATERIAL * Element and mass number, D. chemical and/or physical form, and c. maximum amount which will be possessed at any one time. NDIVIDUALISI RESPONSIBLE FOR ADDIATION SAFETY PROGR AM AND THEIR RACILITIES AND EXPERIENCE. FACILITIES AND EQUIPMENT. WASTE MANAGEMENT. CERTIFICATION. IMUST be completed by applicant! THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF S PREPARED IN COMPARITY WITH TITLE 10. COOR OF FEDERAL REGULATIONS, PART IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WAANING IS US C. SECTION 1001 ACT OF JUNE 25, 1946, 62 STAT. 749 MAKES IT A CI TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH NATURE -CERTIFYING OFFICER TYPED/PRINTED NAME MARING -CERTIFYING OFFICER TYPED/PRINTED NAME FOR NDC. FOR NDC.	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAIHING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, N.M. 10. RADIATION SAFETY PROGRAM. 12. LICENSCE FEES ISM TO CFR 170 and Section 170 311 FEE CATEGORY N/A ENCLOSED S N/A TALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 15. THE APPLICANT, NA SED IN ITEM 2, CERTIFY THAT THIS APPLICATION ARE 15. THE APPLICANT, NA SED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS 13. 32. 33. 40. 400 AND THAT ALL INFORMATION CONTAINED HEREIN. RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION ITTLE Manag T, Nuclear OC PATE 7 198 Licensing & Regulatory Affairs			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIDACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possible at any are time. INDIVIDUALISI RESPONSIBLE FOR AADIATION SAFETY PROGP AM AND THEIR FACILITIES AND EQUIPMENT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFF. CIAL EXECUTING THIS CERTIFICATION ON BEMALF. O THE AND COARDERT TO THE BEST OF THEIR KNOWLEOGE AND BEHALF. STATURE AND COARDECT TO THE BEST OF THEIR KNOWLEOGE AND BELLEF. WAANNING IS US C. SECTION 1001 ACT OF JUNE 25. 1945 625 TAT. 749 MAKES IT A CL TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH MATURE -CERTIFYING OFFICER TYPED/PRINTED NAME FOR NRC	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAIHING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, N. 10. RADIATION SAFETY PROGRAM. 12. LICENSCE FEES ISM TO CFR 170 and Section 170 311 FEE CATEGORY N/A ENCLOSED S N/A TALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 15. THE APPLICANT, NA SED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS 15. JULISDICTION. TITLE MAN 40 AND THAT ALL INFORMATION CONTAINED HEREIN. RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TITLE MAN BE REGULATORY AFFRESENTATIONS IN THIS APPLICATION IS 10. TITLE MAN BE REGULATORY AFFRESENTATION			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIDACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possible at any are time. INDIVIDUALISI RESPONSIBLE FOR AADIATION SAFETY PROGP AM AND THEIR FACILITIES AND EQUIPMENT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. CERTIFICATION. IMUIT DE COMPIEND DY MODILENTI THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFF. CIAL EXECUTING THIS CERTIFICATION ON BEMALF. O THE AND COARDERT TO THE BEST OF THEIR KNOWLEOGE AND BEHALF. STATURE AND COARDECT TO THE BEST OF THEIR KNOWLEOGE AND BELLEF. WAANNING IS US C. SECTION 1001 ACT OF JUNE 25. 1945 625 TAT. 749 MAKES IT A CL TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH MATURE -CERTIFYING OFFICER TYPED/PRINTED NAME FOR NRC	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAIHING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, N. 10. RADIATION SAFETY PROGRAM. 12. LICENSCE FEES ISM TO CFR 170 and Section 170 311 FEE CATEGORY N/A ENCLOSED S N/A TALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 15. THE APPLICANT, NA SED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS 15. JULISDICTION. TITLE MAN 40 AND THAT ALL INFORMATION CONTAINED HEREIN. RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TITLE MAN BE REGULATORY AFFRESENTATIONS IN THIS APPLICATION IS 10. TITLE MAN BE REGULATORY AFFRESENTATION			
NAME OF PERSON TO BE LONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, DUMIT ITEMS 5 THROUGH 11 ON BX \$ 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL . Elements and mass number Elements and mass number Elements and mass number Molviduality Responsible For Addiation Safety PROGRAM AND THEIR PACILITIES AND EQUIPMENT	Intered filled states. Intered filled states. NLRA (615) 751-2693 ION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED. A.S. 10. RADIATION SAFETY PROGRAM. 12. LICENSCE FEES ISM TO CFA 170 and Section 170 311 FEE CATEGORY N/A INTALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE INTALL STATEMENTS AND AGAND THAT ALL INFORMATION CONTAINED HEREIN. RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION HIN 175 JURISDICTION. ITTLE Manag T, Nuclear OC 17 17 198 Licensing & Regulatory Affairs			
NAME OF FERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, TRADIDACTIVE MATERIAL E-Emmine and mass number. INDIVIDUALIS: RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR RACILITIES AND EQUIPMENT. CERTIFICATION. IMUST OF COMPLETED BY ADDISENT! THE APPLICANT UNDERSTANDS THAN WASTE MANAGEMENT. CERTIFICATION. IMUST OF COMPLETED BY ADDISENT! THE APPLICANT UNDERSTANDS THAN BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFF.CIAL EXECUTING THIS CERTIFICATION ON BEHALF S THE PARTIES IN CONFORMITY WITH TILE 10. CODE OF FEDERAL REGULATIONS, PART IS TRUE AND CORRECT TO THE BEAT OF THEIR KNOLEDGE AND BELIEF. WAANING 18 US C. SECTION 1001 ACT OF JUNE 25, 1946, 62 STAT. 749 MAKES IT A CI TO ANY DEPARTMENT OF AGENCY OF THE UNITED STATES AS TO ANY MATTER WITH NATURE -CERTIFYING OFFICER MANAGEMENT COF FEE FEE LOC FEE CATEGORY COL. JENTS	TELEPHONE NUMBER TELEPHONE NUMBER NLRA (615) 751-2693 ON TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.			
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION W. M. Belvin, Manager, Licensing Support, JUMIT ITEMS & THROUGH 11 ON 8% & 11" PAPER. THE TYPE AND SCOPE OF INFORM 'TI RADIOACTIVE MATERIAL * Element and mass number, b. chemical and/or physical form, and c. maximum amount when will be posseded at any are time. INDIVIDUALISI RESPONSIBLE FOR ANDIATION SAFETY PROGR AM AND THEIR FACILITIES AND EQUIPMENT. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THA BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFF CIAL EXECUTING THIS CERTIFICATION ON BEHALF S PREPARED IN CONFORMITY WITH TITLE 10. CODE OF FEDERAL REGULATIONS, PART IS TRUE AND CORRECT TO THE BETT OF THEIR KNOWLEDGE AND BELIEF. WARNING IS US C. SECTION 1001 ACT OF JUNE 25. 1945, 62 STAT, 349 MAKES IT A CI TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES ASTO ANY MATTER WITH IMATURE -CERTIFYING OFFICER TYPED/PRINTED NAME FOR NRC YE OF FEE FEELOS FEEL FEELOS FEEL FEELOS FEEL FEELOS FEEL FEELOS FEEL FEELOS	TELEPHONE NUMBER TELEPHONE NUMBER (615) 751-2693 ION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL SE USED. 6. PURPOSEISI FOR WHICH LICENSED MATERIAL WILL SE USED. 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED, ATA 10. RADIATION SAFETY PROGRAM 12. LICENSTE FEES ISM TO CFR 17J and Section 170 311 FEE CATEGORY N/A ENCLOSED S N/A AMOUNT ENCLOSED S N/A AT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE 14. THE APPLICANT, NA JED IN ITEM 2, CERTIFY THAT THIS APPLICATION ARE 15. 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN. AIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TITLE MANAGE T, NUCLEAR OCT 17, 198 Licensing & Regulatory Affairs USE ONLY			

2

and a state of a

..

.

Ite 1 5

Radioactive Material

a.	Element and Mass Number	b.	Chemical Physical	с.	Maximum Amount Possessed At Any
					One Time

A. Any ty-product A. Any, Mixed Fission A. Not to Exceed 3 material and Activation Curies total Products

Item 6

Purpose(s) For Which Licensed Materials Will Be Used

A. These materials will be possessed, stored, and used in activities associated with the repair, inspection, and testing of contaminated reactor system or related components.

Item 7

Individual(s) Responsible For the Radiation Safety Program and Their Training and Experience:

- A. Licensed material shall be used by, or under the supervision of, B. Paul Bernauer, James L. Pierce, or Ralph G. Wallace. The qualifications of the above individuals are given in attachment !.
- B. The Radiation Protection Officer is Ralph G. Wallace.

The Radiation Protection Officer is a professional health physicist within TVA and is available to the Radiation Control Supervisor for consultation and advice. He also has the responsibility to periodically monitor or audit licensed activities and to provide radiological services when they are needed.

C. The Radiation Control Supervisor is James L. Pierce.

The Kadiation Control Supervisor has the direct responsibility to ensure that all licensed activities under his direction are conducted safely and in accordance with license conditions and the ALARA philosophy.

Item 8

Training For Individuals Working In Or Frequenting Restricted Areas

The background and experience of supervisory personnel involved in the use of licensed material are identified in Item 7. In addition, all personnel shall receive a radiation protection orientation before their assignment to work in any controlled areas. The orientation will cover all pertinent radiation protection practices and procedulas commensurate with the anticipated hazards involved so that the employee can perform his assignment without incurring unnecessary radiation exposure

Item 9

Facilities and Equipment

The Tennessee Valley Authority Power Service Shops in Muscle Shoals, Alabama, provide services for electric power plant maintenance activities which cannot be performed effectively in-plant. Some specialized functions may require that work be performed at other TVA or contractor shops. Maintenance of components from nuclear power plants present additional challenges because of the potential for radioactive contamination. In order to facilitate maintenance of contaminated equipment, work on this equipment will be performed at locations outside the nuclear power plants in accordance with the provisions of Item 10, Radiation Safety Program.

Item 10

kadiation Safety Program

Personnel

.

All work on contaminated equipment will be supported by health physics personnel. Health physicists will have a bachelor's degree and at least 2 years of experience in health physics work. They will be able to direct a comprehensive radiological hygiene program and have a full understanding of current regulatory procedures. Senior health physics technicians will have at least a high school education and 2 years of responsible experience in applied health physics. They will have a working knowledge of the professional aspects of health physics, chemistry, mathematics, and the operation of radiation protection instrume.tation.

Duties and Responsibilities

The Radiation Control Supervisor (RCS) is the health physicist responsible for ensuring that activities are conducted in accordance with NRC regulations and license conditions. He shall ensure that all exposures are maintained As Low As Reasonably Achievable (ALARA). Specific responsibilities include:

- Evaluate the suitability of conducting licensed activities at a specific location.
- Determine the scope of essential radiation protoction activities.
- Direct the establishment of a Controlled Area, as necessary and appropriate, to effectively control radiation and radioactive materials.
- Supervise radiation protection activities conducted under the license to ensure that adequate protective measures have been taken in respect to the following:
 - a. Personnel monitoring, dosimetry, and protective clothing
 - b. Radiation surveys
 - c. Posting of areas
 - d. Records, reports, and notifications

Item 10 (Continued)

Health physics technicians shall:

- 1. Work under the supervision of the health physicist.
- Cavry out all radiation protection activities as directed by the health physicist.
- Maintain accurate and legible records of all radiation surveys and activities.

Personnel Monitcring Equipment

All personnel, including non-TVA personnel, using licensed material shall wear a thermoluminescent dosimeter (TLD). The TLDs used are part of TVA's personnel dosimetry system and are exchanged at least quarterly. For any non-TVA personnel badged under this license, an exposure report will be provided to the off-site company at the conclusion of the project or within 6 days after the completion of its work.

Radiation Detection Instrumentatica

A wide variety of radiation detection instrumentation is available for use in support of the maintenance operations. The following radiation detection instruments, or similar, are examples of the instruments which may by used.

- 1. Ludlum Model 11C with an external GM detector.
- 2. Ludlum Model 3-99 with an external alpha detector.
- 3. Bicron Model RSC-5 with an ion chamber detector.
- 4. Bicron Surveyor 50 with a frisker probe.
- 5. Bicron Mirco Analyst micro R meter with a NaI detector.
- 6. Ludium Model 2200 scaler with an external GM detector.

Survey instruments shall be calibrated at intervals not to exceed 6 months and after each instrument servicing. Records of each instrument calibration shall be maintained for a period of 2 years after the date of calibration. Each radiation survey instrument shall bear a current calibration tag stating the date of calibration and calibration due date.

Instrument calibration will be performed by the Environmental Radiological Monitoring and Instrumentation Department of TVA's Nuclear Assurance and Services. Each instrument will be calibrated so that a plus or minus 10-percent accuracy can be demonstrated at two or more widely separated points, other than zero, on each scale.

41-08155-08

Item 10 (Continued)

Leak Tasting

At the present time no sources are possessed under this license which require leak testing. Should such sources be acquired, the following provisions will apply.

Leak tests of sealed sources will be performed by or under the supervision of health physics personnel. The sources shall be tested for leakage at intervals not to exceed 6 months. The test shall be capable of detecting the presence of 0.005 microcuries of removable contamination. The test sample shall be taken from the source or from appropriate accessible surfaces of the device in which the source is mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for at least 2 years.

If the test reveals the presence of 0.005 microcuries or more of removable contamination, the source shall be withdrawn from use and shall be decontaminated, repaired, or disposed of in accordance with applicable regulations. Within 5 days after determining that a source has leaked, a report describing the equipment involved, the test results, and the corrective action taken shall be submitted to the Nuclear Fegulatory Commission.

Any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material. The periodic leak test required by this section does not apply to sealed sources that are stored and not being used. Such sources shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within 6 months prior to the date of use or transfer.

Operating Procedures and Instructions

All activities shall be conducted in accordance with the requirements of 10 CFR 20, "Standards for Protection Against Radiation." Specific program activities include:

1. Radiation Safety Evaluation

Before any facility is designated to receive radioactice materials or contaminated equipment from a plant, the RCS will perform an evaluation of the offsite maintenance facility to determine whether the physical aspects of that particular facility will allow adequate radiation protection measures to be instituted. This survey will especially address the feasibility of establishing radiation control areas around

Item 10 (Continued)

contaminated equipment or areas where radioactive materials will be handled. Work areas will be selected to minimize any disruption of the normal operating routine of the facility.

2. Controlled Area

Controlled Areas shall be established as appropriate at each temporary field location for the purposes of radiation protection. The Controlled Area shall encompass an area of the facility in which radioactive materials and contaminated components will be handled. All individuals who enter the controlled area will be monitored for contamination before leaving the controlled area.

a. Access Control

Access to the Controlled Area shall be limited to those persons specifically assigned to the activity by the facility management or TVA. Each individual assigned will have completed the training described in Item 8 and shall be authorized to enter the area by the health physics representative.

b. Preparation of the Area

Before beginning any licensed activity which could result in the spread of radioactive contamination, the area shall be adequately prepared to control and contain all radioactive materials. Consideration will be given to such measures as:

- Covering of floors and other areas to contain radioactive materials and to facilitate decontamination at the completion of the activity.
- Use of portable ventilation system to ventilate the area and contain airborne activity generated.
- Covering of equipment surfaces to prevent unnecessary contamination of equipment.
- c. Posting of Area

All areas within the Controlled Area shall be routinely surveyed for radiation. Criteria for classification and posting of areas shall be in accordance with the provisions of 10 CFR 20.

Item 10 (Continued)

d. Protective Clothing

All individuals entering the Controlled Area will be supplied with protective clothing commensurate with the hazards involved. The health physics representative shall specify the appropriate protective clothing requirements for each particular activity. Protective clothing may include coveralls, lab coats, shoe covers, gloves, and head covers.

e. Respiratory Protection

In cases where the potential for airborne contamination exists, the air will be monitored by the health physics representative and the necessary protective devices specified according to the concentration and the type of airborne contaminants present. Every precaution will be taken to keep airborne contamination to a minimum through the use of proper ventilation and prior decontamination.

3. Radiological Surveys

The radiation protection program shall include radiation surveys for air activity, removable surface contamination, and radiation levels. These surveys shall be conducted periodically within the Controlled Area to evaluate radiological conditions arising from handling of radioactive materials. The RCS will review a'l surveys and will recommend measures to control radiation exposure. These control measures may include:

- Physical measures to provide such items as shielding, ventilation, respiratory protection, and protective clothing.
- Procedural measures to provide access control, time limitations, and modifications of work procedures.

Any unusual conditions detected during a radiation survey shall be brought to the attention of the RCS.

4. Contamination Control Limits

At the completion of licensed activities at an offsite facility, all equipment and affected shop areas shall be surveyed for radioactive contamination and radiation dose rates. Surface contamination limits on equipment and shop areas released for general use shall not exceed the following:

Item 10 (Continued)

- a. Transferable Radioactive Surface Contamination
 - 1) 1000 dpm/100 cm², beta-gamma
 - 2) 20 dpm/100 cm², alpha
- b. Total Radioartive Surface Contamination
 - 100 cpm, beta-gamma, at about one-half inch as measured by a frisker type instrument with a pancake probe
 - 300 dpm/100 cm², alpha
- Note: It is not necessary to routinely survey for alpha emitters unless there is an indication of their presence.

These values meet or exceed the limits of NRC's "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for By-Product, Source, or Special Nuclear Material," July 1982.

5. Transportation

Packaging and transport of licensed material will be carried out in accordance with Title 10, Code of Federal Regulations, Part 71.

6. Records

Records of all licensed activities shall be maintained at TVA's Western Area Radiological Laboratory in Muscle Shoals, Alabama. These records shall include:

- a. Radioactive material receipt and shipment records
- b. Radiation survey records
- c. Personnel exposure records
- d. Leak test records (as appropriate)
- e. Instrument calibration records

Item 11

Waste Management

All radioactive waste materials shall be appropriately packaged, surveyed, and labeled in accordance with applicable NRC and DOT regulations governing the transport of radioactive materials. Waste shall be transported to TVA nuclear plants, approved disposal sites, or other appropriate approved facilities for disposal.

Attachment 1

Qualifications of Supervisory Personnel

B. Paul Bernauer

Supervisor, Support Unit, Environmental Radiological Monitoring and Instrumentation Department

Mr. Bernauer has a B.S. degree in correctional psychology from the University of Alabama, Tuscaloosa, Alabama, an M.B.A. degree from the University of North Alabama, Florence, Alabama, and an M.S. degree in health physics from the Georgia Institute of Technology, Atlanta, Georgia. He has worked with TVA in the area of radiological health for more than 9 years, with primary responsibilities for the procurement of radioanalytical, dosimetry, and health physics instrumentation systems. Since September 1988, he has been supervisor of the Support Unit with additional responsibilities for dosimetry processing, environmental radiological monitoring, and offsite health physics support activities.

James L. Pierce

Mr. Pierce has a B.S. degree in business administration from the University of Nevada at Las Vegas. He also attended a 5-week applied health physics trairing course at Oak Ridge Associated Universities and a 1-week training course in environmental radiation survaillance at the Harvard University School of Public Health, Cambridge, Massachusetts. He has worked in radiological safety in the U.S. Army (1959-1962), at the Westinghouse Naval Reactor Facility in Idaho (1962-1964), at the Nevada Test Site (1964-1963 and 1969-1974), and at Auburn University, Auburn, Alabama (1969). In 1974 he joined TVA where he worked as a health physics technician at Browns Ferry Nuclear Plant and in the corporate office. Since 1976 ne has worked as a realth physicist with responsibilities in nuclear plant support, radiation protection training, dose assessment, emergency preparedness, and environmental radiological monitoring

Ralph G. Wallace

Health Physicist, Support Unit, Environmental Radiological Monitoring and Instrumentation Department

Mr. Wallace has a B.S. degree in chemistry and mathematics from the University of North Alabama, Florence, Alabama, and a MSPH degree in radiological hygiene from the University of North Carolina at Chapel Hill. He has worked with TVA in the area of radiological health for more than 20 years. During this period, he has worked in the radioanalytical laboratory, in dosimetry, emergency planning, environmental monitoring, and offsite health physics support. His primary responsibilities have been in the anvironmental radiological monitoring program.

0255W