NRC FORM 313 (7-86) 10 CFR 30, 32, 33, 34, 35 and 40

AMOUNT RECEIVED

CHECK NUMBER

APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMB

DATE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTINE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

CHARLES AND REPORT AND ADDRESS	MARCHINE HTTP: AND DESIGNATED SECURITION OF THE PERSONS ASSESSED.		CORRECT AND ADDRESS OF THE PARTY OF THE PART	THE RESERVE OF THE PROPERTY OF	AND A THE RESIDENCE OF THE PROPERTY AND ADDRESS OF THE PARTY OF THE PA
APPLICATIONS FOR	DISTRIBUTION OF EXE	MPT PRODUCTS FILE APPLICATION	NS WITH:	IF YOU ARE LOCATED IN	m5-16
	GULATORY COMMISSION CYCLE AND MATERIAL S			ILLINOIS, INDIANA, 10WA, MICHIGAN, MINNESOTA, MISSOURI, OHI WISCONSIN, SEND APPLICATIONS TO	O. OR 74
		AS FOLLOWS, IF YOU ARE		U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION 799 ROOSEVELT ROAD	
MASSACHUSETTS.		COLUMBIA, MAINE, MARYLAND. V JERSEY, NEW YORK, PENNSYLVA LICATIONS TO:	NIA.	GLEN ELLYN, IL 60137 ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEX	NEBRASKA,
U.S. NUCLEAR REGULATORY COMMISSION, REGION I NUCLEAR MATERIALS SAFETY SECTION B 631 PARK AVENUE KING OF PRUSSIA, PA 19406 ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, BOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, BEND APPLICATIONS TO U.S. NUCLEAR REGULATORY COMMISSION, REGION II NUCEAR MATERIALS SAFETY SECTION 101 MARIETTA STREET, SUITE 2900 ATLANTA, GA 30323 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 (Crieck appropriate (term)) A. NEW LICENSE B. AMENDMENT TO LICENSE NUMBER C. RENEWAL OF LICENSE NUMBER		NUCLEAR R	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 94596 EGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code) Sharon IV. DeWit H.C. 72 Box 500 Opheim, Nont. 59250		
Will	be used in			ontana. It will be possessed f of highway 247.	in
A. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Sharon DeWit				406-724-3437	
SUBMIT ITEMS 5 TH	ROUGH 11 ON 8% x 11"	PAPER. THE TYPE AND SCOPE OF IN	NEORMATIO	N TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUI	DE.
		nd/or physical form, and c. maximum a	mount	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.	
7. INDIVIDUALISI P TRAINING AND E		ATION SAFETY PROGRAM AND THE	EIR	B. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING F	ESTRICTED AREAS.
9. FACILITIES AND	8/100000	14 870522		10. RADIATION SAFETY PROGRAM.	
REG4 LIC30 PDR 25-23672-01				12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY ENCLOSED \$	
BINDING UPON THE APPLICANT PREPARED IN C IS TRUE AND CO WARNING: 18 U TO ANY DEPAR	THE APPLICANT AND ANY OFFICIAL E: ONFORMITY WITH TITL DRRECT TO THE BEST O S.C. SECTION 1001 ACT TMENT OR AGENCY OF	XECUTING THIS CERTIFICATION ON E 10. CODE OF FEDERAL REGULAT F THEIR KNOWLEDGE AND BELIEF OF JUNE 25. 1948, 62 STAT. 749 MA THE UNITED STATES AS TO ANY MI	BEHALF OF		ON IS HEREIN, PRESENTATION
SIGNATURE CERTI	FYING OFFICER	TYPED/PRINTED NAME		TITLE	DATE
		Sharon M. D	eWit		4-1 5-87
< \$250K - 500K	81M-35M 835M-7M	b NUMBER OF EMPLOYEES (Total entire facility excluding outside con	tor	d WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dolla ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (WRC not to protect confidential commercial or financial—proprietary—information the agency in confidence)	any future
\$500K - 750K	\$7M-10M	NUMBER OF BEDS		T YES NO	(42000
\$750K-1M	>\$10M	A STATE OF THE PARTY OF THE PAR	FOR NRC L		100001
TYPE OF FEE	FZE LOG	FEE CATEGORY COMMENT	nen komponin en	APPROV	ED BY

2/13/57 application.

- #5. 1. Cesulum 137 and Americium 241/Be
 - 2. Model 503 Moisture depth Hydroprobe. CPN Corp. -134
 - 3. Not to exceed 10 millicures Csi 37 and?or 50 millicures Am 241/Be one source per device.
 - 4. CPN Corp. 134 Model 503 Moisture depth Hydroprobe
- #6. The purpose is for measuring moisture in irrigated wheat fields.
- #7. Debra Donovan. Safety Training taken on January 20, 1987 in Denver, Co. by Steve Thompson fo Thompson/Quill Assoc.

#8 N/A

- #9 The device will be stored in a locked enclosure in an empty building that is 100 yards from the living quarters of the farm. It can be viewed from the farm house at all ines.
- #10. .1 I will wear film badges at all times when working with the

 Hydroprobe. They will be sent in to the Landauer Co. for read outs.

 .2 Film badges.
 - .3 I will use a commercial leak-test and take smears myself and send them in to the CPN Corp. or results. The kit model # is A 401197 The supplier is CPN Corp., 2830 Howe Road, Martinez, CA. 94553.
 - .4. Maintenance will be totally done by the CPN Corp..
 - .5 Transporting and packaging of the device will be carried out in accordance with the applicable DOT Regulations.
 - .6. Operating and Emergency Procedures
- The Nuclear Gauge will be securely restrained in venicles to prevent theft or loss while unattended or in an accident. Metal clamps, chains, or bars will be used.
- The Nuclear Gauge and its shipping case will be hidden from view while in an unattended vehicle to minimize attractive nuisance value.
- 3. All users will wear film badges when using the Nuclear Gauge. Badges will be stored away from gauges when not in use and will be protected from external heat.
- 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.
- Gauges will be securely locked in storage areas when not in use. Keys will be restricted to authorized users only.

- The Nuclear Gauge will be used only by users specifically authorized in writing by the Radiation Safety Officer.
- The Gauge will be leak tested annually using Campbell Pacific Nuclear Test (it TD-11B or other approved kit. Results will be maintained for permanent record and inspection.
- Disposal of the source or of the device will not be done by licensee directly.

In the event of emergency disposal, we shall contact the factory or other authorized disposal facility for instructions.

The unit will be transferred only to authorized licensees for this specific device and a record of transfer will be retained in our files, with proof of license authority by the recipient, in the event of sale, trade, loan, or other transfer.

420089

Emergency Procedure

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

- · Freeze site Stop any involved vehicles.
- * Restrict access to 10' from the gauge, vehicles, or tracks.
- Call for competant, trained assistance:

BLIC HEALTH OFFICE:	728 - 8221-61
hittoric EAGE:	
PN FACTORY:	415-687-6472

- #11. If the device is no longer needed I will transfer it back to the CPN Corp. or notify the NRC for instructions.
- #12. My application fee of \$230. has been sent in by check in our previous application for Byproduct Material License. That was sent in on Feb. 6, 1987.

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