



United Conveyor Corporation

300 Walnut Road • Deerfield, Illinois 60015 • Phone: (312) 948-0400 • Cable: UNICONVEY, Deerfield, Illinois • Telex: 22-4407

September 27, 1982

U.S. Nuclear Regulatory Commission
Region III
Radioisotopes Licensing Section
799 Roosevelt Road
Glen Ellyn, IL 60137

Attn: Mr. M. McCann

Reference: Control No. 12062
License Amendment

Gentlemen:

With regard to our request for a license amendment, we are providing the following clarifying comments.

1. Sources installed at temporary jobsites will be installed for our own use.
2. The amendment pertains to a Texas Nuclear Model 5191 source holder. The T.N. Model 5190 previously listed in the license has been returned to Texas Nuclear.
3. Commercial carriers will be used to transport the source. The source will be packaged in a container bearing the appropriate D.O.T. labeling.
4. Attachment 15, paragraph 3 should read as follows:

The applicant's Radiation Protection Officer will perform the initial radiation survey and leak testing at the time of installation. The training of the user will be by the Radiation Protection Officer. This training will include construction features of the device, source integrity, beam geometry and intensity and operating details of the device. A minimum of one-half hour will be spent covering these topics. Any precautionary steps like the addition of shielding, signs, or precautions to be taken will be covered at the time of installation in accordance with Texas Nuclear installation procedures and training.

5. The duties of the Radiation Protection Officer will be as defined in Item 7 of the N.R.C. Guide for Nonportable Devices dated March, 1980.

8604070048 860124
REG3 LIC30
12-20056-01 PDR

...ulic abrasive materials handling since 1920



Mr. M. McCann

-2-

September 27, 1982

6. Copies of Texas Nuclear Leak Test Procedure QT/IS are attached.

The calibration source for the survey meter is Radium 226.

7. The lock-out procedure consists of a padlock with the key under the control of the Radiation Protection Officer.

Sincerely,

UNITED CONVEYOR CORPORATION

R. W. Kuby, Project Engineer

RWK:sp

LEAK TEST PROCEDURE - QT/IS

QT/IS is designed for use by service people in the field and individuals who have received specific hands-on-training in its application. The gauge should not be dismantled or disassembled in order to leak test. Testing of the external seams, flanges and end plate is adequate.

1. If the gauge has a movable shutter, position the shutter actuator to the closed position. In the event that the shutter actuator is frozen, or appears damaged, notify Texas Nuclear Division, Health Physics Department (512/836-0801, Ext. 310).
 2. Refer to "Calculations for Leak Testing" before proceeding. Remove the end cap from the end window of the G.M. Survey Meter, Model 2652, or its equivalent, and with the use of the appropriate certified standard source, calibrate the unit on the proper scale. Insure that the most active side of the source faces the meter (the labeled side).
 3. Obtain as many cotton-tipped applicators as indicated on the applicable drawing and slightly moisten. (Use water, alcohol or other solvent.)
 4. With the shutter closed, wipe the areas of the source housing assembly at the locations designated on the appropriate drawings (care should be taken not to touch the Q-tips with the fingers following wiping operation).
 5. Carefully place the swab end of each Q-tip in exactly the same position as the standard source and read the results. The degree of removable contamination may be readily evaluated by the method referenced above. The highest reading obtained should be used in making the calculation.
 6. A leak test certificate should be completed and filed as a permanent record of your leak test. Amounts of radioactivity found should be recorded in microcuries (μCi). However, if no radioactivity is detected it is preferable to record the results as $<$ (less than) the minimum detectable amount as opposed to zero. (e.g., $<0.003 \mu\text{Ci}$).*
 7. One should send the wipes to a counting laboratory for additional analysis if any contamination appears on the wipes. Notify Texas Nuclear for instructions.
 8. Note: Generally it is advisable to use a certified standard source containing the same isotope as that being tested. However, this is not always necessary where the isotope is an energetic gamma emitter, e.g., Cs-137 standard will work for Co-60, Ir-192, Ra-226, etc., because these isotopes have higher exposure rates/ μCi than Cs-137.
- * Leak Test Certificates furnished customers should include background reading and the meter reading of the certified standard source on the certificate.