

P. GUINN
RSE

The City of Danville, Virginia

WATER AND WASTEWATER TREATMENT DEPARTMENT

WATER TREATMENT
279 PARK AVENUE
DANVILLE, VIRGINIA 24541
(804) 799-6473

85 JUL 16 9:31

July 11, 1985

WASTEWATER TREATMENT
460 WILLIAMSON ROAD
DANVILLE, VIRGINIA 24540
(804) 799-5137

Mr. Paul R. Guinn
Senior License Reviewer
Nuclear Materials Safety Section
United States
Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Atlanta, Georgia 30323

Attention: Paul R. Guinn

Reference: 50510; 030-010646

1. Lock-Out Procedure

The source for the level gauge as described in License Number 45-16242-01 is located inside and at the top of a vertical 3500 gallon tank. The tank has a 24" manhole which allows visual inspection of the tank. Distance from the manhole and the radioactive source is 16 feet.

Prior to any inspection of the tank the radioactive source is manually pulled into a lead shielding container by the use of a rod which is included with the storage container. The rod is located in a place to prevent tampering during vessel maintenance. Bobby E. Bentley, Chief Operator is responsible for ensuring the lock-out is enforced.

2. Special Requirements for Fixed Gauges

The following information is provided:

- a. A sketch on the location of the gauges is enclosed.
- b. The gauge source is located in a cylinder pressure vessel used in the Heat Treatment of sewage sludge. The operating pressure in the vessel varies from 160 to 250 psig with a operating temperature of 380° F. Inspection of the source holders is performed on a semi-annual schedule.

- continued -

8508150003 850722
REG2 LIC30
45-16242-01 PDR

Official Copy

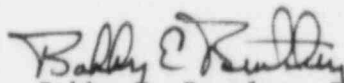
Mr. Paul R. Guian

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July 11, 1985

- 2.
- c. Ambient Temperature will not exceed manufacturer specifications.
 - d. No cooling system needed.
 - e. All components are inspected at minimum, semi-annually.
 - f. In the event of damage to the gauge, the Cs 137 source would be retracted in the protective lead lined holder. Bobby E. Bentley, PH NR 804-799-5137 is plant radiation safety officer.

Sincerely,



Bobby E. Bentley, Chief Operator
Wastewater Treatment Plant

/cw

Attachments

LEAD FILLED SOURCE HOLDER

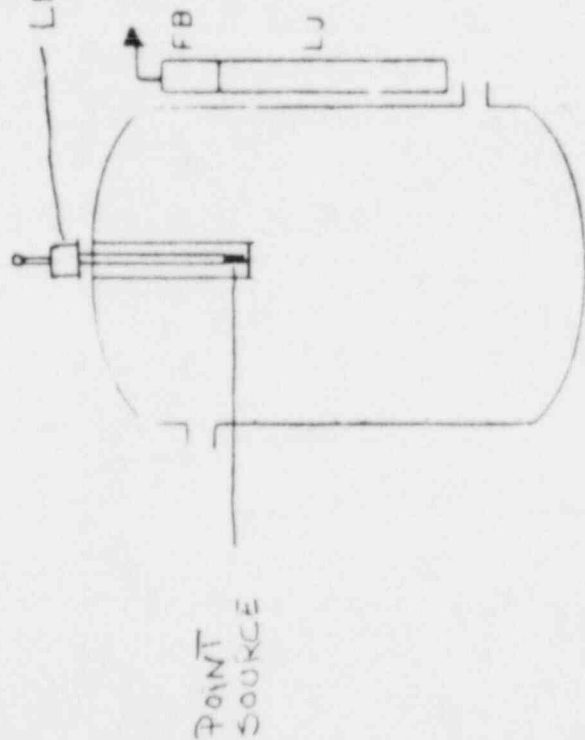


FIG. 3.1E

CONTINUOUS LEVEL MEASUREMENT

WITH SOURCE WELL

USED WITH HEAVY VESSEL WALLS (APPROX.
2 1/2" OR MORE) OR LARGE DIAMETER VESSELS.

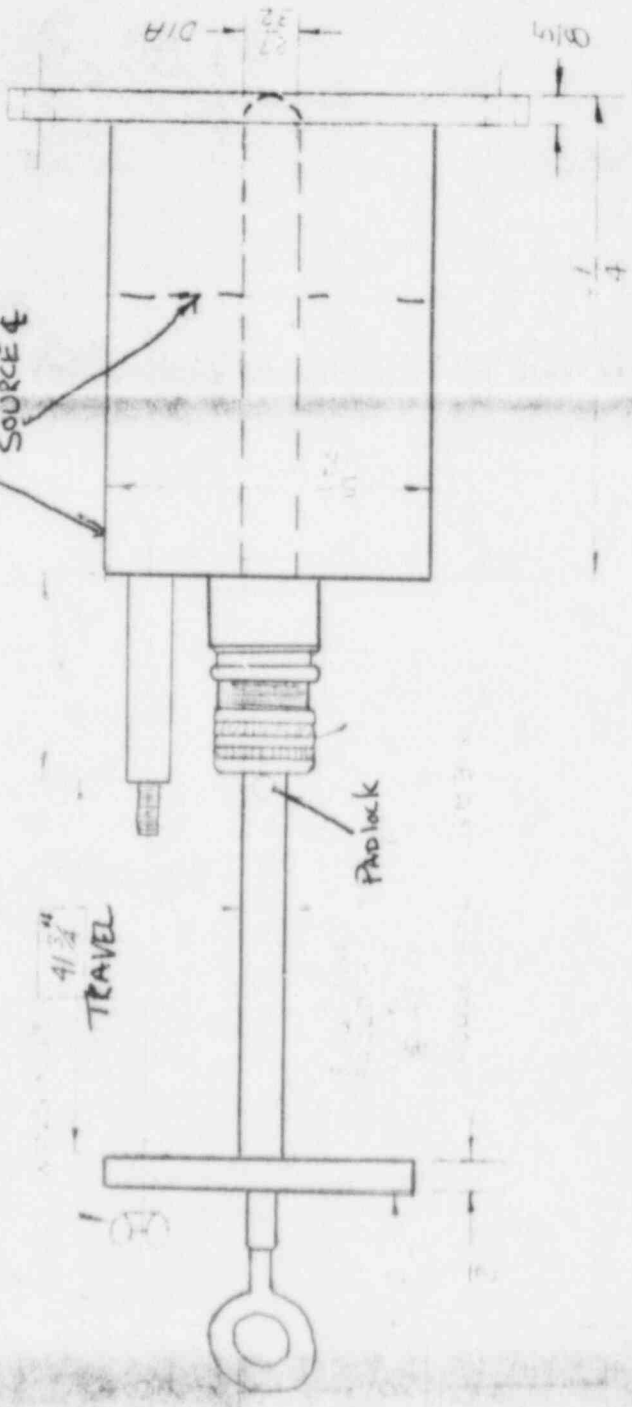
LEAD FILLED SHIELD

SOURCE

TRAVEL

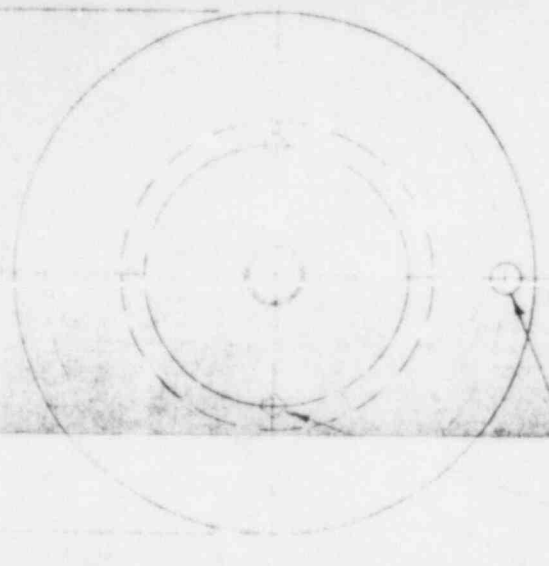
4 1/2"

Prolock



CARBON STEEL WELDED CONST

CERTIFIED CORRECT
BY J. L. G. S. S. S.
DATE 7-11-74



78 DIA. TAP HOLES
EQUALLY SPACED
ON 63/64 B.C.
TAP REINFORCES ON 4/5 B.C.
PROVIDE FOR LIFTING EYES

THE OHMART CORPORATION CINCINNATI, OHIO	
TITLE: SOURCE HOLDER POSITIONING RODS	
DESIGN BY A. SHLM	CHECKED DANVILLE VA
DATE 10-25-82	SCALE B 23834
FORM DRAWING B-20261	