

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

1. LICENSEE <i>Barton - Dickinson</i> <i>Division of Barton, Dickinson, & Company</i> <i>Route 7 and Greenway</i> <i>North Canaan, Connecticut 06018</i>		2. REGIONAL OFFICE U.S. Nuclear Regulatory Commission Office of Inspection and Enforcement Region I 631 Park Avenue <i>King of Prussia, Pennsylvania 19406</i>	
3. DOCKET NUMBER(S) <i>35-06881</i>	4. LICENSE NUMBER(S) <i>06-13514-01</i>	5. DATE OF INSPECTION <i>April 20, 1976</i>	
6. INSPECTION FINDINGS The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows: <input checked="" type="checkbox"/> No items of noncompliance or unsafe conditions were found. The following items of noncompliance related to records, signs, and labels were found: <input type="checkbox"/> A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42 <input type="checkbox"/> B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42 <input type="checkbox"/> C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d) <input type="checkbox"/> D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e) <input type="checkbox"/> E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2) <input type="checkbox"/> F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b) <input type="checkbox"/> G. Form AEC-3 was not properly posted. 10 CFR 20.206(c) <input type="checkbox"/> H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b) <input type="checkbox"/> I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d) <input type="checkbox"/> J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51 <input type="checkbox"/> K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c) <input type="checkbox"/> L. Records of inventories were not maintained. 10 CFR 34.26 <input type="checkbox"/> M. Utilization logs were not maintained. 10 CFR 34.27 <input type="checkbox"/> N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24 <input type="checkbox"/> O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license. <input type="checkbox"/> P. Other _____			
<div style="text-align: right;"><i>Charles F. Stearns</i> (AEC Compliance Inspector)</div>			
7. The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.			
(Date) _____		8507130248 850502 PDR FOIA GIDWAN184-705 PDR (Licensee Representative - Title or Position) _____	

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION I
IRRADIATOR INSPECTION

(Field Notes)

Licensee *Benton-Dickinson*

Facility

North Canon, Conn.

License No. *06-13514-01*

Inspection Date

4/20/76

Principal Inspector

C. J. Stearns

Other Accompanying Persons

none

Individuals Interviewed

Titles

Date of Interview

a. *William A. Whiting*, RSO

*b. *?*, *High*, *Eng. & Architecture*

*c. *Don O'Donnell*, *Plant*

d. *?*, *Plant*

Place of Interview

O'Donnell's office

Name of RSO

William A. Whiting

Telephone No. of RSO

203-824-5485

Enforcement Action(s)

Clear 591

W. A. Whiting

A. Scope of Program

1. Number of individuals occupationally exposed 3.
2. Type of Irradiator (eg. Pool, Pit, etc.) POOL.
3. Number of Curies 225,000 Ci of Co-60.
4. Frequency of use: 200 hours ~~times per~~ month.

B. Exposure Evaluation

(somewhat less than previously)

1. Personnel
 - a. Film Badge X
 - b. Dosimeter X
 - c. Other _____
2. Facility
 - a. Independent area radiation monitor X
 - b. Survey meter when enter HRA X

C. Surveys

1. Radiation levels in unrestricted areas ≤ 0.1 mR/h at almost all points X
2. Contamination smears in restricted area well below 0.5 mR/h at all points
3. Leak Tests
 - a. Frequency 1/6 month — e.g. 4/7/75 & 1/7/76
 - b. Method adequate X
4. Interlocks into HRA
 - a. Frequency of Testing monthly
 - b. Functional at time of inspection YES — demonstrated and checked in presence of inspector

* (Level were not re-measured ⁱⁿ at the inspection)

c. Are they intentionally bypassed or deleted. Yes ☒ No

(1) Procedure if yes

(if there were reason to go into the facility under special circumstances for repair, AEC would be called in to handle the problem.)

d. In accordance with license?

— (also see report of inspection 8/30/74)

e. Adequate?

5. Routine maintenance of Hot cell equipment adequate. ☒ Yes No

(good)

D. Instrumentation

1. Adequate type and number: ☒ Yes No

2. Calibration as required: ☒ Yes No

most recent 11/24/75 and 2/20/76

E. Evaluation of Effluent

1. Liquid *(a) check ppm weekly (confirm §7.5) (b) check resin sacks*

2. Airborne

licensee has started to perform calibration using 15 mCi source

also check ppm NaCl weekly from deionizer when such are changed (approximately)

F. Training

1. Std. Procedures

2. Emergency Procedures

3. NRC Regulations

check filters for activity (a) absolute filters (b) pre filters — semi annually when flow-rate falls below 11 CFM (3-6 months) Two men being trained as back-ups when on the -job (a) 1 week course at AEC being called "to the scene" including always anything unusual happens!

G. Signs/Posting

1. CRM ☒

2. CHRA ☒

3. 19.11 ☒

H. Evaluation of Incoming Packages (20.205)

n/a

I. Disposal

~~Any~~ Any replaced source returned to AEC.
Handling performed by AEC personnel

J. Evaluation of Outgoing Shipments - (DOT)

n/a

K. Unusual Occurrences or Events

A. ~~source~~ ~~exposed~~ a partial short in the
indicator (140) circuit — (not part of actual
operating system). As a result, all wiring
was replaced.

L. Independent Measurements (Van, Inspector)

none
Bi Whiting received 330 mrem
on Film Badge during period
when instrument calibration equipment
was being checked out by him (August 1975) -
contains 15 mCi Co-60 source. Normally
receives minimal exposure on film badge.
He figures that he either left jacket with
film badge near the source or possibly
stood too near the source too long in
checking it out.