



THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN 48640

INSPECTION AND MAINTENANCE PROGRAM FOR THE COBALT 60 SOURCE

EQUIPMENT AND STORAGE CABINET

WELDING ENGINEERING DEPARTMENT

- A. The radiographer shall complete an equipment inspection checklist each time the source is used. The checklist shall be completed prior to performing any radiographic exposures and will include the following items:

1. Date of removal
2. Time of removal
3. Maximum mr/hr in storage
4. Maximum mr/hr reseal
5. Any damage to storage cabinet or its shielding material
6. Storage cabinet properly labeled
7. Proper operation of source indicator
8. Any drive cable tube damage
9. Any source guide tube damage
10. Proper operation of source locking mechanism
11. Any damage to portable cart

- B. The equipment shall be inspected and maintenance performed, both preventive and corrective by a Level II Radiographer, at intervals not to exceed three months, to determine the extent of equipment deterioration and whether operation has been affected by wear, corrosion, or physical abuse. A record of the date and results of such inspections shall be entered in the source usage log book. These periodic inspections shall consist of all the items listed in part A above plus a check of the following:

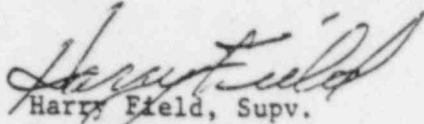
1. Changes in operating characteristics of the device
2. Proper operation of the crank mechanism
3. Source and drive cable wear
4. Source and drive cable tube and connector wear
5. Clean and lubricate drive cable and connectors if necessary
6. Clean any rust, dirt, or sludge build-up in the source tube
7. Proper connection of all mating components
8. Cable drive gear box damage or wear
9. All defective and excessively worn components shall be repaired or replaced

- C. Special, nonroutine inspections of the equipment shall be performed at appropriate times, such as exposure of the equipment to unusually severe

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stress or at any time it is felt damage might have occurred. These inspections shall consist of any or all of the checks listed in A and B above to determine the extent of any damage. A record of the date and results of such inspections shall be entered in the source usage log book.



Harry Field, Supv.
Dow Welding Center
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