



DOW CHEMICAL U.S.A.

March 2, 1972

MIDLAND, MICHIGAN 48840

PROCEDURE FOR EXCHANGING RADIOGRAPHIC SOURCE

1. When ordering a replacement source, specify correct source model number and exchange mechanism model number for the Tech/Ops Model 525 projector. The correct source model number is A-424-5, and the correct exchange mechanism model number is Tech/Ops Model 416. Include on the order the following labeling requirement: SOURCE CONTAINER TO BE LABELED " TO BE OPENED ONLY BY H. FIELD. NOTIFY INDUSTRIAL HYGIENE, 636-4676, UPON RECEIPT."
2. The exchange is to be performed only by the Welding Engineering Supervisor or a Senior Welding Engineer, and only with a qualified Health Physicist in attendance.
3. The radiographic gamma survey meter or its equivalent, calibrated within the last calendar quarter, is to be used for radiation safety monitoring.
4. Both participants must wear film badges and pocket dosimeters, properly zeroed.
5. The exchange area must be restricted for a minimum 30 feet radius and only the participants allowed to enter.
6. The proposed transfer will be reviewed in detail by participants before starting, including emergency action to be taken in the event of malfunction during each step of the transfer. All necessary tools, monitoring devices and emergency equipment will be checked before starting. The procedure is as follows:
 - A. Unscrew the holddown cap from the empty vault (on the left) and attach in its place the guide tube coming from your radiography unit.
 - B. Crank your old source into the vault and disconnect it from the source cable by releasing the snap fitting.
 - C. Unscrew the guide tube and replace it with the holddown cap.
 - D. Unscrew the holddown cap from the right hand vault and attach in its place the guide tube you have just removed from the other vault.

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AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY



Procedure for Exchanging Radiographic Source

- E. Snap the end of the source cable into the fitting on the new source assembly.
- F. Crank the new source back into your radiographic unit.
- 7. The Welding Engineer will make connections and operate the projector controls, subject to the Health Physicist's instructions, and in accordance with the procedure supplied by Tech/Ops.
- 8. The Health Physicist will make survey measurements as needed and be prepared to implement emergency procedures in the event of malfunction.
- 9. After transfer, the Health Physicist will measure radiation levels of the exchange container and the projector. Radiation levels at the projector storage cabinet will be measured also.
- 10. Radiation levels at the projector and its storage cabinet, dosimeter readings and other measurements will be recorded in the Radiographic Source Log Book.
- 11. The exchange container will be re-addressed and relabeled for return to the supplier.



Harry Field, Supv.
Welding Engineering Department
6-1096



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L. G. Silverstein
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