

PROCESS SPECIFICATION
TITLE: RADIOACTIVE (RA) BY-
PRODUCT MATERIAL APPLICATION

P-052
ISSUE: 002
MAY, 2000

1.0 EQUIPMENT:

- 1.1 Vented Hood for Storage.
- 1.2 Storage Container for Promethium
- 1.3 Heat Lamp or Oven
- 1.4 Hypodermic Syringe
- 1.5 Tray w/Disposable Absorbent Material
- 1.6 Disposable Gloves

2.0 MATERIAL:

RA Promethium 147, 10 millicuries max. total amount.

3.0 PROCEDURE:

- 3.1 Remove RA material from storage hood.
- 3.2 With syringe, extract small amount of RA material from vial.
- 3.3 Insert needle point of syringe into quartz cylinder at about half way into the cylinder.
- 3.4 Eject one or two drops of RA material.
- 3.5 Remove syringe.
- 3.6 Repeat for subsequent cylinders.
- 3.7 Insert needle point of syringe back into original RA material vial and expel remaining contents of syringe.
- 3.8 Dispose of syringe, needle and absorbent towel into RA waste barrel.
- 3.9 Place cylinders in oven (75°C to 95°C) for 1 hour to dry solution.

4.0 QUALITY:

Amount of RA material should result in proper firing of cylinders.

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5.0 SAFETY:

- 5.1 Only qualified workers to have access to RA facility.
- 5.2 Disposal gloves are to be used by operator.
- 5.3 No more than 10 cylinders to be processed at a time.
- 5.4 Film badges must be worn by operators.
- 5.5 RA material should be kept at least 20" from eyes.
- 5.6 Area should be checked for radiation with survey meter before security. Readings greater than twice background (about 1000cp.)
- 5.7 Operator to wash thoroughly upon completion.
- 5.8 Survey meter reading should be taken of hands and area entered into log.