MALLINCKRODT, INC.
Diagnostic Imaging Services
9455 Midwest Avenue
Garfield Heights, OH 44125

SUBJECT: Waste Disposal

OBJECTIVE: Disposal of radioactive waste by the decay-in-storage method.

RESPONSIBILITY: Site radiation safety officer or designated representative.

SCHEDULE: As needed

PROCEDURE:

1. Mo-99/Tc-99m generators will be:

   A. Returned to the manufacturer (shipped in compliance with DOT regulations), OR
   B. Held for decay until radiation levels, as measured in a low background area with a low-level survey meter and with all shielding removed, have reached background levels.

   Radiation labels will be removed or obliterated before disposal in normal trash. Generator columns will be segregated in storage so that they may be monitored separately to ensure decay to background levels.

2. Other radioactive waste will be held in storage for approximately 10 half-lives until radiation levels (measured as stated above) have reached background levels. Waste is segregated by half-life in the storage area. Radioactive waste will be entered in the waste disposal/storage record, as it is put into storage. Waste will be stored in the respective half-life container which has been properly labeled.

3. After decay, the waste will be monitored with a low level survey meter. If background levels have been reached, the waste will be signed out and disposed of in one of the following ways:

   A. After destruction of radiation labels, waste will be disposed of in normal trash.

   B. Waste will be boxed, sealed and taken to a local incinerator with the labels intact. Incineration will obliterate the labels and destroy the syringes and vials.

   C. Decayed waste with the labels intact will be boxed, sealed and shipped according to DOT Regulations to the Mallinckrodt Radiopharmaceutical plant in Maryland Heights, MO. The waste management building at the plant has a shredder equipped with radiation monitors. The syringes and vials will be shredded, surveyed for radioactivity and then disposed of through normal trash if survey readings do not exceed background levels.