



# Veterans Administration

February 11, 1981

ADCMD for Operations (115)  
Veterans Administration Central Office  
Washington, D.C. 20420

Subj: Request for Amendment - NRC License #22-01859-01

It is requested that our NRC License be amended to allow for the disposal of radioactive waste via decay-in-storage. The following information is submitted in support of this amendment.

Enclosures (1), (2) and (3) show the relative locations of the three decay storage areas. Area (1) is for the decay storage of low level radioactive animals. Area (2) is for dry compacted waste with half lives 36 days or less. Area (3) is for dry compacted waste with half lives greater than 36 days. Hydrogen 3 and carbon 14 waste are not included in these areas for the purpose of decay storage.

## Security

The freezer storage area for radioactive animals area (1), is a free standing unit with a single door entrance. This door has a key lock. One key is in the possession of the radiation safety officer and another key is in the possession of the research experimental surgery office. The loading of this freezer is done by the radiation safety officer. All four (4) outside walls of the freezer will be marked with the appropriate radiation symbol and the words "Caution-Radioactive Material, Decay Storage Area".

Area (2) is a free standing, isolated brick building with a single door entrance. Connected to one side of the building is an eight foot high chain link fence with a single gate entrance. Both the door and the gate are locked at all times. The building door and the chain link fence are posted with "Caution-Radioactive Material" signs.

Area (3) is a free standing, isolated brick building with entrance via two doors. One door separating the decay storage area from a grounds equipment storage area is locked at all times. The other door is secured with a lock. The access windows to the building are covered with steel bars in case of window breakage. The entrance door is posted with a "Caution-Radioactive Decay Storage Area" sign.

## Radiation Survey

On a weekly basis each area will be monitored for radiation levels on the outside of each building or fence (as close as possible to the surface) and also on the inside of each area (in the general walking space). These readings will be recorded. Proper radiation signs will be posted as appropriate in accordance with 10 CFR Part 20.

In Reply Refer To: 618/115

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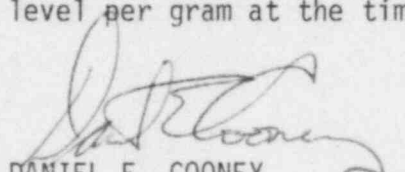
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ADCMD for Operations (115)

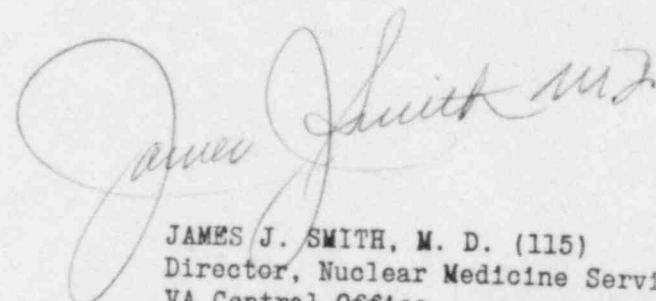
Disposal of Waste

In general the decay period for all dry waste in areas (2) and (3) will be at least ten half lives. Before disposal in the regular trash, the radiation level measured at the surface of the waste will be at normal background levels. Monitoring will be done with a G.M. survey meter on the 0-0.2 mr/hr scale. Records of the isotopes and of the activity levels in the waste will be kept.

The radioactive animals will be kept for at least ten half lives and will be monitored for radiation level with a G.M. survey meter on the 0-0.2 mr/hr range. (In all cases the animal will have one microcurie or less activity). Animals will not exceed normal background levels on their surfaces at the time of disposal. Records will be kept on each animal or groups of animals indicating the date of storage, removal date, isotope and amounts at the time of storage and disposal and isotope level per gram at the time of disposal.

  
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