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Los Alamos
NATIONAL LABORATORY
memorandum

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Subject: Interview with Julie Wilson (7-0894) 1/25/93, concerning SWMU 43-002 Incinerator.

Julie Wilson was asked several questions about the incinerator. Approximately 100 mice and rats were used, at a 2:1 ratio respectively, per isotope experiment. Dogs and monkeys were used in the experiments as well, but these animals were not incinerated. Roughly, 20-50 isotopes were used yielding 2000-5000 animals to be incinerated. The concentration of the isotope did not depend on the size of the animal. Usually, each animal was given 1-10 pico Curies (10^{-12}) of the isotope. With 5000 incinerated animals, this amounts to around 50 nano (10^{-9}) Curies in total.

The purpose of these experiments was to study the metabolic disposition of the isotopes within parts of the body. These isotopes are closely related to what workers could be exposed to around a nuclear reactor.

Julie believes that the animals mass was at least reduced from 9:1 during incineration. Martell and Watanabe located the stack rising up from near the dock area to well above the roof level. At ground level, a trap was located that contained what looked to be residual ash. A radiation test was suggested.

This is a list of isotopes that Julie Wilson believes were used in the experiments:

Cs^{137}	Sr^{90}
Pb^{210}	Co
Nb	Cd
Hg	Zn
Fe	Ni
Cu	As
Cu	Se
Rb	Y
Ag	Sn
Sb	Ba
Tl	

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