

file

September 21, 1979

578/115

Mr. James G. Keppler, Director
NRC Office of Inspection and Enforcement
Division of Fuel Facility and Materials
Safety Inspection
Washington, D.C. 20555

Dear Mr. Keppler:

This letter is sent in response to "IE Bulletin 79-19."

1. Response to your items 1 through 8:

We performed a radiation safety program audit on May 29-30, 1979, which included your NUREG-0267, Appendix E and additional items.

2. Response to your item 9-1, 2, 3:

a. 1978 (Atomic Disposal Inc.) (1 unit = 1-55 gal. steel drum):

	date	dry	vials	animals	total drums	Ci
(1.)	1/31/78	3	2	—	5	.025
(2.)	4/4/78	2	7	—	9	.031
(3.)	5/15/78	4	3	—	7	.026
(4.)	7/10/78	3	4	—	7	.0255
(5.)	8/11/78	4	2	—	6	.019
(6.)	9/26/78	4	4	—	8	.031
(7.)	11/8/78	5	3	—	8	.0235
(8.)	11/27/78	1	4	4	9	.038

total 26 + 29 + 4 = 59
total curies 0.2190

b. 1979 (Atomic Disposal Inc.) (1 unit = 1-55 gal. steel drum):

	date	dry	vials	animals	total drums	Ci
(1.)	1/16/79	4	5	—	9	.0345
(2.)	2/15/79	5	4	—	9	.038
(3.)	3/21/79	3	1	3	7	.0315
(4.)	5/4/79	4	4	1	9	.038
(5.)	6/18/79	4	3	1	8	.029

total 20 + 17 + 5 = 42
total curies 0.1710

SEP 28 1979

F/55

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- c. The major isotopes in the low-level radioactive waste were:

^{99m}Tc , ^{131}I , ^{125}I , ^{123}I , ^{57}Co , ^{58}Co , ^{60}Co , ^{51}Cr , ^{47}Ca , ^{85}Sr ,
 ^{75}Se , ^{67}Ga , ^{201}Tl , ^{169}Yb , ^{46}Sc , ^{141}Ce , ^{32}P , ^3H , ^{14}C , ^{192}Ir

- d. All generated liquid low-level radioactive waste disposed of by burial is contained in serological capped vials or screw cap scintillation vials placed in plastic lined steel drums in alternate layers of vermiculite equal to twice the volume of fluid and six inches of vermiculite on the top and bottom of the alternate layers, with the liner taped off at the top and a gasketed, bolted locking ring seal.

3. If this information does not totally answer the questions in "IE Bulletin 79-19," please feel free to make further inquiry.

Sincerely,

JOHN R. FEARS
Director