

## DISPOSAL OF RADIOACTIVE WASTES

by  
Group H-7

44

TA 50

11

	To Solid Waste Pits (H-1)				To Pits at DP-257		
	Total <sup>239</sup> Pu g (1)	<sup>233</sup> U g	<sup>235</sup> U g	Vol. Liters	<sup>239</sup> Pu (4) g	<sup>235</sup> U g	Vol. Liters
1948					-	-	-
1949					-	-	-
1950					-	-	-
1951	0.52	-	-	45,500 (6)	-	-	-
1952	23.58	-	-	85,600 (6)	-	-	-
1953	94.34	-	-	80,440	-	-	-
1954	43.83 <i>17c</i>	-	-	120,285	-	-	-
1955	37.57	-	-	149,510	-	-	-
1956	24.45	-	-	144,415	-	-	-
1957	22.42	-	-	174,655	-	-	-
1958	39.56	-	-	187,560	-	-	-
1959 (2)	71.14	-	-	128,555	-	-	-
1960	492.88	-	18.57	197,870	-	-	-
1961	238.43	-	3.98	201,215	-	-	-
1962	230.42	-	22.02	262,725	-	-	-
1963	146.82	-	13.07	305,520	-	-	-
1964	149.13	-	29.80	330,985	-	-	-
1965	242.78	186.00	248.50	288,905	-	-	-
1966	227.58	676.00	95.01	279,420	-	-	-
1967	184.61	-	54.86	205,373	-	-	-
1968 (3)	145.31	-	73.20	126,364	93.25 (paste) 655.00 (spheres)	-	202,760
1969	104.01	-	79.19	180,435	215.36 (paste) 356.00 (spheres)	-	314,349
1970	73.67	-	38.85	155,130	246 (5) (paste) 210.00 (spheres)	-	450,408

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Notes: (1) Based on gross  $\alpha$  of plant sludge plus <sup>239</sup>Pu in americium waste. In 1970, raw waste gross  $\alpha$  activity at TA-50 was approximately 85% <sup>238</sup>Pu. (2) The americium waste treatment began in 1959. (3) The pug mill operation began in 1968 and americium waste cement paste since that time has been buried west of DP-257. (4) The figures for <sup>239</sup>Pu in pits at DP-257 include plutonium in three-foot diameter spheres which were lowered into the pits. (5) <sup>239</sup>Pu in pug mill runs is estimated as 246g from an equivalent <sup>239</sup>Pu amount of 4.939g. (6) Estimated.

