PDR 71-9135

A DIVISION OF
NUCLEAR SYSTEMS

Gamma Industries 2255 TED DURHAM AVENUE P.O. BOX 2543 BATON ROUGE, LOUISIANA 70821
TEL (504) 387-7791 TELEX 586-473

January 23, 1980

Mr. Charles Marotta
Nuclear Regulatory Commission
Washington, D. C. 2055

Dear Mr. Marotta:

Thank you for your telephone call relative to the tests on the Century models manufactured by Gamma Industries.

A thorough review of the test data has been made. Since there was no damage to the exterior of the devices tested and no damage to the interior of the devices tested, the data presented in Table 2 accurately reflect the dosage readings both before and after each test. A statement verifying this fact has been added to Table 2. Sufficient copies have been enclosed for insertion into the copies submitted to NRC for analysis.

Please let me know if other information can be submitted which will assist in the review process.

Sincerely yours,

Harry D. Richardson
President

FEE EXEMPT

PROGRESS THROUGH INNOVATION

info only

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TABLE 2

Models Century S, SA, Century Universal S, SA
Radiation Profile Were Measured On Two (2) Different Century Models
Obtain "Typical" External Dosage

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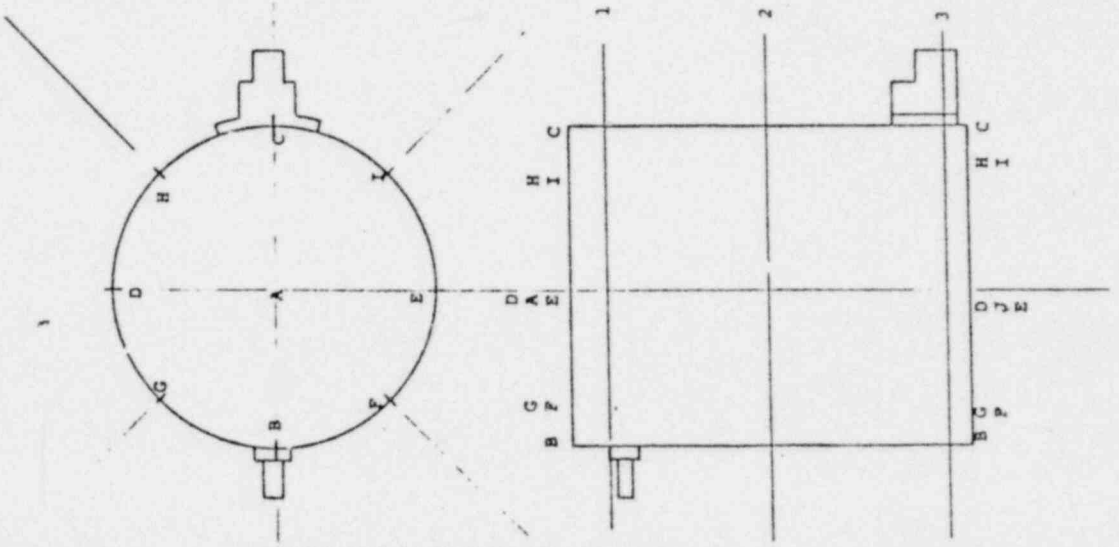
NOTE:
a. All data measured in Mr/hr.
b. Survey Measured with 111 ci Ir-192 Within Century
c. Results Reported Extrapolated To 120 ci Ir-192.
d. Measurements Made With Gamma Survey Model 200 Using GM Tube Model LND 714.
e. Radiation measurement made before and after each test were identical

DISTANCE		Elevation -1- Surface			Elevation -2- Surface			Elevation -3- Surface			Over Top Cover Elevation Surface			Below Bottom Cover Elevation Surface		
		6"	36"		6"	36"		6"	36"		6"	36"		6"	36"	
P	A										66	7	0.6	65	8	0.7
O	B	71	27	1.6	137	29	2.7	82	27	2.2	22	10	1.6	24	11	1.8
S	C	115	28	1.6	148	27	1.6	50	7	1.6	55	6	1.6	58	8	1.6
I	D	44	10	0.6	77	17	0.6	44	9	0.6	61	12	1.6	17	11	1.7
T	E	82	30	2.2	165	41	2.7	104	33	2.2	55	10	1.6	14	12	1.6
I	F	77	21	1.6	155	27	1.6	83	22	1.6	38	11	1.6	35	13	1.6
O	G	66	14	0.6	44	27	1.6	55	22	1.6	38	17	1.6	34	15	1.7
N	H	82	17	1.1	99	24	1.6	71	17	2.2	49	10	1.6	46	11	1.6
	I	93	27	1.6	154	31	1.6	88	28	1.6	44	9	1.6	42	10	1.6
	J										55	10	0.6	53	9	0.7



LOCATIONS OF PROFILE MEASUREMENTS