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Writer's Direct Dial Number

April 22, 1981  
L1L 122

Office of Inspection and Enforcement  
Attn: B. H. Grier, Director  
Region I  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406



Dear Sir:

Three Mile Island Nuclear Station, Unit 1 (TMI-1)  
Operating License No. DPR-50  
Docket No. 50-289  
Radioactive Effluent Release Report Correction

Enclosed please find two revised copies of Table 4 of the Radioactive Effluent Release Report for the period of June 1, 1980 through December 31, 1980 submitted February 28, 1981 (L1L 053). This table has been modified to correct a typographical error as noted by the margin bar.

Sincerely,

Signed H.D. Hukill

H. D. Hukill  
Director, TMI-1

HDH:DGM:lma

Enclosure

cc: ~~Director~~, Office of Inspection and Enforcement (6 copies)  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Director, Office of Management Information & Program Control  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

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TYPICAL GASEOUS EFFLUENT LLD (Lower Limit of Detection) VALUES

ASSUMPTIONS:	Sample Volume (Marinelli)	1640 cc
	Sample Volume (Particulate and Charcoal Filters)	5.7E8 cc
	Sampling Rate	2 cfm or 5.66E4 cc/min
	Sampling Time	1 week or 1E4 min
	Sample Volume (Tritium bubbled thru water)	7.56E5 cc
	Sampling Rate	75 cc/min
	Sampling Time	1E4 min
	Sample Counting Time: $\alpha$ & $^3\text{H}$ = 20min; $\beta$ = 10min; $\gamma$ = 1000 sec	
	Sample Counters: $\gamma$ emitters	25% Ge(Li)
	$\alpha$ or $\beta$	Proportional Counter
	$^3\text{H}$	Liquid Scintillation Counter

<u>ISOTOPE</u>		<u><math>\mu\text{Ci/cc LLD}</math></u>	<u>TYPE SAMPLE</u>
Gross Alpha	$\alpha$	1E-15	Particulate Filter Paper
Gross Beta	$\beta$	1E-14	"
Tritium	$^3\text{H}$	1E-6	Air bubbled thru water by a fritted disc or Fisher Milligan gas washer
Krypton-85	$^{85}\text{Kr}$	2E-5	Marinelli
Krypton-85m	$^{85\text{m}}\text{Kr}$	4E-8	"
Krypton-87	$^{87}\text{Kr}$	4E-8	"
Krypton-88	$^{86}\text{Kr}$	2E-7	"
Xenon-133	$^{133}\text{Xe}$	1E-7	"
Xenon-133m	$^{133\text{m}}\text{Xe}$	6E-8	"
Xenon-135	$^{135}\text{Xe}$	3E-8	"
Xenon-135m	$^{135\text{m}}\text{Xe}$	4E-7	"
Xenon-138	$^{138}\text{Xe}$	4E-7	"
Iodine-131	$^{131}\text{I}$	3E-8	"
Iodine-133	$^{133}\text{I}$	3E-8	"
Iodine-135	$^{135}\text{I}$	2E-7	"
Iodine-131	$^{131}\text{I}$	2E-14	Charcoal Filter
Iodine-133	$^{133}\text{I}$	1E-13	"
Iodine-135	$^{135}\text{I}$	1E-12	"
Manganese-54	$^{54}\text{Mn}$	2E-14	Particulate Filter Paper
Iron-59	$^{59}\text{Fe}$	2E-14	"
Cobalt-58	$^{58}\text{Co}$	2E-14	"
Cobalt-60	$^{60}\text{Co}$	2E-14	"
Zinc-65	$^{65}\text{Zn}$	5E-14	"
Strontium-89	$^{89}\text{Sr}$	2E-14	"
Strontium-90	$^{90}\text{Sr}$	2E-14	"
Molybdenum-99	$^{99}\text{Mo}$	7E-15	"
Ruthenium-103	$^{103}\text{Ru}$	1E-13	"
Silver-110m	$^{110\text{m}}\text{Ag}$	1E-13	"
Cesium-134	$^{134}\text{Cs}$	2E-14	"
Cesium-137	$^{137}\text{Cs}$	2E-14	"
Cerium-141	$^{141}\text{Ce}$	1E-14	"
Cerium-144	$^{144}\text{Ce}$	6E-14	"