



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

50-320

April 5, 1979 12:00

MEMORANDUM FOR: F. Congel/R. Vollmer, NRR Site
FROM: L. Barrett, E/W, NRR
SUBJECT: RADIOLOGICAL UPDATE

The population dose increment for 4/3 - 4/4 was 70 man-Rem per the NRC/EPA/HEW group. The total population dose since 3/28 is 2100 man rems as of mid-day 4/4. The maximum individual dose remains under 100 mrem at the NE.

Also attached is the population data out to 50 miles used for the estimate.

We are working back calculations to estimate releases from TLD and iodine sampler data.

L. Barrett

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4/4/19

PROJECTED 1980 POPULATION DISTRIBUTION, 0-10 MILES
 THREE MILE ISLAND NUCLEAR STATION, UNIT 2
 (FROM FIG. 2.1-5 of SAR)

Sector	Distance (Miles)						0 - 10
	0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	
N	19	212	3,970	3,772	415	11,840	20,228
NNE	55	75	169	480	373	11,223	12,375
NE	42	134	271	428	186	2,246	3,307
ENE	58	55	186	461	262	1,567	2,589
E	42	60	39	137	552	10,431	11,261
ESE	6	36	149	214	236	2,809	3,450
SE	6	94	67	203	395	2,095	2,854
SSE	88	197	117	78	43	3,840	4,364
S	0	0	136	817	1,317	12,190	14,460
SSW	84	98	584	217	752	6,883	8,610
SW	84	104	181	562	219	4,297	5,447
WSW	29	273	117	796	237	2,961	4,413
W	36	369	36	331	571	7,155	8,498
WNW	22	106	253	197	235	11,823	12,636
NW	39	106	64	41	1,177	29,482	30,909
NNW	48	98	1,240	942	1,911	16,632	20,881
	658	2,017	7,579	9,676	8,891	136,474	166,295

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THREE MILE ISLAND NUCLEAR STATION, UNIT 2
(FROM FIG. 2.1-10 of SAR)

<u>Sector</u>	<u>Distance (Miles)</u>				<u>Total</u>
	<u>10-20</u>	<u>20-30</u>	<u>30-40</u>	<u>40-50</u>	<u>10-50</u>
N	12,663	9,005	8,941	47,588	78,197
NNE	18,240	6,826	14,478	45,115	84,659
NE	39,726	38,979	9,546	62,345	150,596
ENE	10,205	14,757	45,445	177,672	284,079
E	18,853	62,028	42,445	38,754	162,080
ESE	34,339	124,988	27,822	42,737	229,886
SE	20,152	10,000	10,600	26,958	67,710
SSE	44,204	10,774	15,097	66,763	136,838
S	111,002	14,648	13,477	75,781	214,908
SSW	31,917	44,031	18,596	37,729	132,273
SW	11,801	19,931	25,536	18,979	76,247
WSW	5,882	7,996	8,948	23,010	45,836
W	21,769	35,025	10,370	20,602	87,766
WNW	70,460	14,188	5,333	3,681	93,662
NW	99,593	9,308	9,970	12,630	131,501
NNW	<u>26,482</u>	<u>10,517</u>	<u>7,256</u>	<u>12,866</u>	<u>57,121</u>
Total	<u>577,288</u>	<u>433,001</u>	<u>273,860</u>	<u>713,210</u>	<u>1,997,359</u>

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