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U.S. NUCLEAR REGULATORY COMMISSION

TMI Program Office
Attn: Mr. Lake Barrett, Deputy Director
U. S. Nuclear Regulatory Commission
c/o Three Mile Island Nuclear Station
Middletown, Pennsylvania 17057

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Revision of Orders re Solidification of Resins

This letter is submitted to transmit the latest revisions of summaries titled, "EPICOR-II Liners (25)" and "EPICOR-II Low Level Liner Curie Deposition," originally submitted March 11, 1981 as attachments to our letter, LL2-81-0066. This revision constitutes the final revision to the curie depositions for EPICOR-II second and third stage (DF & DS) Liners.

To summarize, the curie depositions for DF's 3, 4, 5 and DS-2 were revised with respect to strontium-90 deposition. Originally, for expediency, the Sr⁹⁰ deposition for these liners was calculated assuming RCBT A Sr⁹⁰ values for batches 7 through 11. However, by substituting the pre-RCBT Sr⁹⁰ values (the proper values as these batches originated in the U-1 Miscellaneous Waste Storage Tank, the U-2 Auxiliary Building Sump Tank and U-2 Auxiliary Building Sump), the Sr⁹⁰ depositions for the liners are calculated to be within LSA limits. Therefore, these four liners are reclassified from TYPE B quantity shipments to LSA greater than TYPE A quantity shipments.

Sincerely,

G. K. Hovey
Vice-President and
Director, TMI-2

GKH:LJL:djb

cc: Dr. B. J. Snyder, Program Director - TMI Program Office

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April 29, 1981

EPICOR II LINERS (25)

<u>LINER</u>	<u>CURIES (3/ 2/81)</u>	<u>SHIPMENT TYPE</u>
PF-5	150.551	B
6	149.548	B (exceeds LSA limits)
10	252.286	B
DF-1	0.995	LSA > A
2	8.381	LSA > A
3	30.323	LSA > A
4	7.003	LSA > A
5	9.657	LSA > A
6	10.827	LSA > A
7	0.5766	LSA > A
8	2.116	LSA > A
9	3.149	LSA > A
10	4.183	LSA > A
11	1.641	LSA > A
12	2.956	LSA > A
13	1.342	LSA > A
14	2.137	LSA > A
15	4.955	LSA > A
DS-1	5.237	LSA > A
2	13.829	LSA > A
3	5.833	LSA > A
4	0.589	LSA > A
5	7.374	LSA > A
6	5.25	LSA > A
7	4.01	LSA > A

POOR ORIGINAL

EPICOR II - LOW LEVEL LINER CURIE DEPOSITION

	PRE-FILTERS						FIRST POSITION DIPHERALIZERS (DF)															SECOND POSITION DIPHERALIZERS (DS)						
	5	6	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	2	3	4	5	6	7			
COMBAT 60																												
Cur/Sec	0.004	0.006	0.024	0.0001	0.001	0.002	0.001	0.0004	0.0005	0.0006	0.001	0.002	0.001	0.003	0.004	0.001	0.002	0.003	0.003	0.0045	0.0004	0.0024	0.0004	0.0004	0.423	0.0027		
uCi/gram	0.01	0.01	0.039	0.0002	0.002	0.003	0.001	0.0004	0.0008	0.001	0.002	0.002	0.001	0.003	0.005	0.001	0.003	0.004	0.004	0.0052	0.0018	0.001	0.0002	0.16	0.0011			
STROTRON 90																												
Cur/Sec	1.373	1.834	8.84	0.32	1.958	0.187	0.144	2.378	2.585	0.213	0.757	0.848	1.87	0.384	0.941	0.512	0.559	0.861	2.518	2.988	2.872	0.246	3.441	1.79	1.727			
uCi/gram	2.371	2.648	14.436	0.396	3.494	0.273	0.236	3.883	4.221	0.347	1.124	1.259	2.42	0.538	1.317	0.737	0.661	1.241	1.032	1.22	1.173	0.093	1.486	0.675	0.705			
CESTRON 132																												
Cur/Sec	9.721	9.651	14.677	0.02	0.26	2.025	0.464	0.318	0.359	0.008	0.016	0.069	0.107	0.031	0.041	0.053	0.033	0.185	0.0059	0.5254	0.0042	0.001	0.0025	0.027	0.0144			
uCi/gram	14.654	15.781	23.968	0.024	0.436	3.307	0.758	0.519	0.587	0.013	0.023	0.102	0.157	0.043	0.057	0.019	0.048	0.287	0.0024	0.2145	0.0017	0.0024	0.001	0.017	0.0059			
EPICOR 132																												
Cur/Sec	70.749	70.207	106.28	0.138	1.992	14.366	3.211	2.288	2.997	0.06	0.272	0.575	0.173	0.335	0.294	0.108	0.162	1.362	0.0438	3.737	0.0282	0.017	0.0204	0.316	0.0938			
uCi/gram	106.65	114.65	173.56	0.17	3.253	23.461	5.244	3.736	4.241	0.097	0.404	0.854	0.253	0.329	0.412	0.155	0.377	1.963	0.0179	1.526	0.0119	0.0145	0.0083	0.126	0.0383			
TOTAL CURIES	150.551	149.546	252.286	0.995	8.181	30.323	7.003	9.627	10.827	0.577	2.116	3.149	4.183	1.641	2.956	1.362	2.137	4.956	5.237	13.829	5.833	0.589	7.374	5.25	6.01			
GROUP III																												
Cur/Sec	1.573	1.634	8.84	0.32	1.958	0.187	0.144	2.378	2.585	0.213	0.757	0.848	1.87	0.384	0.941	0.512	0.559	0.861	2.518	2.988	2.872	0.246	3.441	1.79	1.727			
uCi/gram	2.371	2.648	14.436	0.4	3.194	0.273	0.236	3.883	4.221	0.347	1.124	1.259	2.442	0.538	1.317	0.737	0.661	1.241	1.032	1.22	1.173	0.093	1.486	0.675	0.760			
GROUP III																												
Cur/Sec	147.406	146.279	234.468	0.355	4.688	29.982	6.714	4.9	5.653	0.15	0.588	1.436	0.814	0.839	1.046	0.313	1.148	3.153	0.181	7.852	0.0885	0.1152	0.0759	1.034	0.524			
uCi/gram	222.2	238.9	382.9	0.439	7.297	48.962	10.96	8.002	9.212	0.245	0.872	2.132	1.19	1.175	1.464	0.451	1.654	4.543	0.0738	3.206	0.0161	0.0534	0.031	0.618	0.214			
GROUP IV																												
Cur/Sec	1.574	1.635	8.938	0.32	1.957	0.188	0.145	2.379	2.589	0.214	0.771	0.865	1.899	0.417	0.969	0.518	0.53	0.941	2.528	2.989	2.952	0.237	3.437	1.826	1.739			
uCi/gram	2.373	2.67	14.662	0.396	3.196	0.274	0.237	3.892	4.228	0.35	1.145	1.284	2.48	0.584	1.337	0.746	0.364	1.355	1.012	1.22	1.205	0.093	1.493	0.688	0.38			
TOTAL CURIES	276.947	266.223	411.999	1.732	13.687	49.519	11.436	15.77	17.683	0.942	3.144	4.615	6.117	2.297	4.108	1.914	3.078	7.14	2.138	3.645	2.181	0.231	3.011	1.979	1.837			