



INDIANA AND MICHIGAN POWER  
D. C. COOK NUCLEAR PLANT  
UPDATED FINAL SAFETY ANALYSIS REPORT

Revision: 17.1  
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**TABLE 14.3.4-28**

**PRESSURIZER ENCLOSURE MODEL – TMD FLOW PATH INPUT**

Flow Path	K	f	L <sub>l</sub> (ft)	D <sub>H</sub> (ft)	A <sub>T</sub> (ft <sup>2</sup> )	L <sub>eq</sub> (ft)	A <sub>T</sub> /A
1-2	0.63	0.	18.6	1.0	635.0	0.	0.601
1-33	1.5	0.	4.23	1.0	11.9	0.	0.016
1-27	2.85	0.	3.6	1.0	21.4	0.	0.129
2-3	0.72	0.	25.0	1.0	600.0	0.	0.601
2-27	2.85	0.	5.5	1.0	85.3	0.	0.252
3-4	0.28	0.	33.5	1.0	570.	0.	0.648
3-33	1.5	0.	4.33	1.0	32.4	0.	0.021
3-27	2.85	0.	3.6	1.0	21.3	0.	0.128
4-5	0.56	0.	19.1	1.0	600.0	0.	0.601
4-33	1.5	0.	4.42	1.0	24.5	0.	0.022
4-31	2.85	0.	3.6	1.0	21.3	0.	0.128
5-6	0.63	0.	18.6	1.0	635.0	0.	0.601
5-31	2.85	0.	5.5	1.0	85.3	0.	0.129
6-1	1.45	0.	29.2	1.0	58.5	0.	0.055
6-33	1.5	0.	4.23	1.0	11.9	0.	0.014
6-31	2.85	0.	3.6	1.0	21.4	0.	0.129
7-8	0.	0.0276	12.278	0.855	112.8	16.0	0.727
8-9	0.	0.0276	12.278	0.855	112.8	16.0	0.727
9-34	0.812	0.0276	8.8558	0.855	112.8	8.0	0.727



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Flow Path	K	f	L <sub>l</sub> (ft)	D <sub>H</sub> (ft)	A <sub>T</sub> (ft <sup>2</sup> )	L <sub>eq</sub> (ft)	A <sub>T</sub> /A
10-11	0.	0.0276	12.278	0.855	131.31	16.0	0.727
11-12	0.	0.0276	12.278	0.855	131.31	16.0	0.727
12-35	0.812	0.0276	8.8558	0.855	131.31	8.0	0.727
13-14	0.	0.0276	12.278	0.855	266.63	16.0	0.727
14-15	0.	0.0276	12.278	0.855	266.63	16.0	0.727
15-36	0.812	0.0276	8.8558	0.855	266.63	8.0	0.727
16-17	0.	0.0276	12.278	0.855	184.59	16.0	0.727
17-18	0.	0.0276	12.278	0.855	184.59	16.0	0.727
18-37	0.812	0.0276	8.8558	0.855	184.59	8.0	0.727
19-20	0.	0.0276	12.278	0.855	143.57	16.0	0.727
20-21	0.	0.0276	12.278	0.855	143.57	16.0	0.727
21-38	0.812	0.0276	8.8558	0.855	143.57	8.0	0.727
22-23	0.	0.0276	12.278	0.855	143.57	16.0	0.727
23-24	0.	0.0276	12.278	0.855	143.57	16.0	0.727
24-39	0.812	0.0276	8.8558	0.855	143.57	8.0	0.727
25-6	1.45	0.	6.08	1.0	2.2	0.	.01
26-32	0.99	0.	64.5	1.0	17.0	0.	0.85
26-28	0.69	0.	45.8	1.0	25.0	0.	0.357
27-26	2.85	0.	8.0	1.0	55.0	0.	0.417



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27-29	2.85	0.	2.7	1.0	2.5	0.	0.008
28-3	2.6	0.	13.2	1.0	35.7	0.	0.077
28-27	2.85	0.	8.0	1.0	43.0	0.	0.254
29-28	2.85	0.	2.0	1.0	0.25	0.	0.001
29-3	2.85	0.	3.0	1.0	0.25	0.	0.002
30-28	0.99	0.	46.6	1.0	20.0	0.	1.0
30-4	2.6	0.	13.2	1.0	35.7	0.	0.106
31-30	2.85	0.	8.0	1.0	43.0	0.	0.254
31-29	2.85	0.	2.7	1.0	2.5	0.	0.007
32-30	0.69	0.	40.0	1.0	25.0	0.	0.417
32-31	2.85	0.	8.0	1.0	55.0	0.	0.331
33-2	1.5	0.	4.69	1.0	23.8	0.	0.034
33-5	1.5	0.	4.65	1.0	23.8	0.	0.034
34-25	1.45	0.	2.8	1.0	233.8	0.	0.659
35-25	1.43	0.	2.8	1.0	267.6	0.	0.65
36-25	1.43	0.	2.8	1.0	539.5	0.	0.625
37-25	1.41	0.	3.2	1.0	376.5	0.	0.636
38-25	1.44	0.	2.8	1.0	289.4	0.	0.646
39-25	1.43	0.	2.8	1.0	296.3	0.	0.646



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40-1	0.89	0.	10.36	1.0	121.9	1.0	0.225
40-7	0.227	0.01517	8.222	0.855	106.7	8.0	0.33
40-41	7.5	0.	13.8	1.0	24.7	0.	0.075
41-2	0.89	0.	10.36	1.0	144.0	1.0	0.225
41-10	0.227	0.01517	8.222	0.855	126.1	8.0	0.33
41-42	12.5	0.	22.4	1.0	24.7	0.	0.046
42-3	0.89	0.	10.36	1.0	288.0	1.0	0.225
42-13	0.227	0.01517	8.222	0.855	252.2	8.0	0.33
42-43	12.5	0.	25.3	1.0	24.7	0.	0.041
43-4	0.89	0.	10.36	1.0	199.4	1.0	0.225
43-16	0.227	0.01517	8.222	0.855	174.6	8.0	0.33
43-44	10.0	0.	18.4	1.0	24.7	0.	0.056
44-5	0.89	0.	10.36	1.0	155.1	1.0	0.225
44-19	0.227	0.01517	8.222	0.855	135.8	8.0	0.33
44-45	10.0	0.	16.1	1.0	24.7	0.	0.064
45-6	0.89	0.	10.36	1.0	155.1	1.0	0.225
45-22	0.227	0.01517	8.222	0.855	135.87	8.0	0.33
46-47	1.264	0.025	15.54	2.50	17.93	13.86	0.41
46-48	0.856	0.025	17.86	5.19	27.24	15.80	0.65



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46-49	0.788	0.025	17.43	3.66	25.14	15.40	0.60
47-4	1.91	0.025	11.69	2.50	17.93	11.69	1.00
48-4	1.665	0.025	8.87	3.84	18.93	9.22	0.73
48-49	1.268	0.025	7.883	4.50	52.61	7.883	0.47
48-47	0.888	0.025	10.302	2.50	29.23	10.302	0.26
49-4	1.291	0.025	8.80	2.66	17.60	9.05	0.72
49-47	1.064	0.025	11.793	2.50	29.23	14.99	0.26