

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Summary for the Projected Test Year Ending 09/30/2025

Case No: U-21291  
Exhibit: A-16  
Schedule: F1  
Witness: T. J. Krynski  
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Line No.	(a) Rate Class	(b) (\$000) Cost of Service	(c) Customers/ MMcf (1)	(d) Per Unit Cost
<b>Residential</b>				
1	Rate A	(WP TJK-5, P10)		
2	Customer	293,689	1,242,379	\$ 19.70
3	Capacity	477,826	1,242,379	\$ 32.05
4	Commodity	17,089	112,464	\$ 0.1519
5	Total	788,603		
6	Customer & Capacity	771,515	1,242,379	\$ 51.75
7	Rate 2A	(WP TJK-5, P10)		
8	Customer	6,991	6,201	\$ 93.94
9	Capacity	13,917	6,201	\$ 187.02
10	Commodity	834	4,027	\$ 0.2072
11	Total	21,742		
12	Customer & Capacity	20,908	6,201	\$ 280.96
13	Rate S	(WP TJK-5, P15)		
14	Customer	2,024	216	\$ 781.34
15	Capacity	4,554	216	\$ 1,758.37
16	Commodity	218	1,600	\$ 0.1361
17	Total	6,796		
18	Customer & Capacity	6,578	216	\$ 2,539.71
19	<b>General Services</b>			
20	GS-1/GS-2	(WP TJK-5, P5)		
21	Customer	83,142	91,545	\$ 75.68
22	Capacity	159,187	91,545	\$ 144.91
23	Commodity	8,127	40,985	\$ 0.1983
24	Total	250,456		
25	Customer & Capacity	242,329	91,545	\$ 220.59
26	<b>Transportation</b>			
27	Rate ST	(WP TJK-5, P15)		
28	Customer	10,908	433	\$ 2,099.28
29	Capacity	27,165	433	\$ 5,228.07
30	Commodity	-	17,061	\$ -
31	Total	38,073		
32	Customer & Capacity	38,073	433	\$ 7,327.35
33	Rate LT	(WP TJK-5, P20)		
34	Customer	9,002	85	\$ 8,825.00
35	Capacity	22,350	85	\$ 21,912.23
36	Commodity	-	19,248	\$ -
37	Total	31,352		
38	Customer & Capacity	31,352	85	\$ 30,737.24
39	Rate XLT	(WP TJK-5, P20)		
40	Customer	11,453	20	\$ 47,720.86
41	Capacity	31,067	20	\$ 129,445.67
42	Commodity	-	29,772	\$ -
43	Total	42,520		
44	Customer & Capacity	42,520	20	\$ 177,166.53
45	Rate XXLT	(WP TJK-5, P25)		
46	Customer	8,838	7	\$ 105,218.23
47	Capacity	28,909	7	\$ 344,151.96
48	Commodity	-	84,653	\$ -
49	Total	37,747		
50	Customer & Capacity	37,747	7	\$ 449,370.18
51	Exelon	(WP TJK-5, P30)		
52	Customer	5,438	1	\$ 453,129.49
53	Capacity	14,828	1	\$ 1,235,707.41
54	Commodity	-	12,036	\$ -
55	Total	20,266		
56	Customer & Capacity	20,266	1	\$ 1,688,836.90

(1) Col. c: WP TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Plant In Service  
(\$000)

Case No: U-21291  
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Schedule: F1.1  
Witness: T. J. Krynsinski  
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Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Plant In Service</b>												
1	Production Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage Plant	661,786	134,949	376,840	12,833	5,383	20,384	19,550	26,311	53,069	12,467	4
3	Transmission Plant	1,111,067	184,281	519,767	17,186	7,441	50,388	49,412	67,958	182,653	31,980	3
<b>Distribution Plant</b>												
5	Distribution Plant - Other	326,509	54,155	152,744	5,050	2,187	14,808	14,521	19,971	53,676	9,398	3
6	Mains	2,913,254	578,251	1,630,971	53,927	23,350	158,112	155,051	213,244	-	100,350	3A
<b>Customer Related Plant</b>												
8	Services	2,038,785	458,285	1,505,913	36,732	6,036	22,854	5,558	1,976	692	739	5
9	Meters	427,601	97,642	320,848	7,826	1,266	-	-	-	-	-	6
10	Meter/Reg Installation	549,450	125,465	412,276	10,056	1,652	-	-	-	-	-	6
11	Large Volume Installation	1,841	-	-	-	-	1,322	322	114	40	43	7
12												
13	Subtotal - CRP	\$ 3,017,678	\$ 681,392	\$ 2,239,036	\$ 54,614	\$ 8,974	\$ 24,177	\$ 5,880	\$ 2,091	\$ 732	\$ 782	
14												
15	Subtotal - Dist. Plant	\$ 6,257,441	\$ 1,313,798	\$ 4,022,751	\$ 113,591	\$ 34,511	\$ 197,096	\$ 175,452	\$ 235,305	\$ 54,408	\$ 110,529	
16												
17	Total - Plant in Service	\$ 8,030,294	\$ 1,633,028	\$ 4,919,359	\$ 143,610	\$ 47,335	\$ 267,868	\$ 244,414	\$ 329,574	\$ 290,130	\$ 154,977	

Source: Col. (b): WP TJK-7 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Base O&M  
(\$000)

Case No: U-21291  
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Witness: T. J. Krynski  
Page: 2 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Base O&amp;M</b>												
1	O&M Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage	15,207	3,101	8,659	295	124	468	449	605	1,219	286	4
3	Transmission	89,727	14,882	41,975	1,388	601	4,069	3,990	5,488	14,751	2,583	3
4	Distribution	141,924	30,059	92,040	2,599	790	4,510	4,014	5,384	-	2,529	12A
5	Lost & Company Use Gas	43,209	11,132	30,548	1,094	435	-	-	-	-	-	1
6	Customer Accounts - Supv.	2,030	456	1,499	37	6	23	6	2	1	1	5
7	Meter Reading Expenses	4,953	1,113	3,659	89	15	56	14	5	2	2	5
8	Customer Records	41,648	9,362	30,763	750	123	467	114	40	14	15	5
9	Merchant Fees	6,260	2,165	3,995	47	53	-	-	-	-	-	Direct
10	Customer Accts. - Other	58,383	3,986	54,093	270	9	19	4	1	0	0	8
11	Customer Assistance - Supv.	0	0	0	0	0	0	0	0	0	0	8
12	Customer Services	2,999	205	2,778	14	0	1	0	0	0	0	8
13	Customer Communications	(3)	-	(2)	(0)	-	-	-	-	-	-	10
14	Misc Customer Exp	3,076	210	2,850	14	0	1	0	0	0	0	8
15												
16	Total; Base O&M	\$ 409,414	\$ 76,672	\$ 272,858	\$ 6,597	\$ 2,156	\$ 9,613	\$ 8,591	\$ 11,525	\$ 15,987	\$ 5,416	

Source: Col. (b): WP TJK-3, Col. f; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Rate Base  
(\$000)

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Schedule: F1.1  
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Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Rate Base</b>												
1	Production Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage Plant	661,786	134,949	376,840	12,833	5,383	20,384	19,550	26,311	53,069	12,467	4
3	Transmission Plant	1,111,067	184,281	519,767	17,186	7,441	50,388	49,412	67,958	182,653	31,980	3
4	Distribution Plant - Other	326,509	54,155	152,744	5,050	2,187	14,808	14,521	19,971	53,676	9,398	3
5	Mains	2,913,254	578,251	1,630,971	53,927	23,350	158,112	155,051	213,244	-	100,350	3A
6	Services	2,038,785	458,285	1,505,913	36,732	6,036	22,854	5,558	1,976	692	739	5
7	Meters	427,601	97,642	320,848	7,826	1,286	-	-	-	-	-	6
8	Meter/Reg Installation	549,450	125,465	412,276	10,056	1,652	-	-	-	-	-	6
9	Large Volume Installation	1,841	-	-	-	-	1,322	322	114	40	43	7
10	Intangible Plant	(5,020)	(1,021)	(3,076)	(90)	(30)	(167)	(153)	(206)	(181)	(97)	13
11	General Plant	448,928	91,293	275,013	8,028	2,646	14,975	13,664	18,425	16,220	8,664	13
12	Intang. Plt - MARS	6,111	1,014	2,859	95	41	277	272	374	1,005	176	3
13	Intang. Plt. - Other	44,628	3,047	41,350	206	7	14	3	1	0	0	8
14	Intang. Plt. - Transmission	3,376	560	1,579	52	23	153	150	206	555	97	3
15	Intang. Plt. - HPP	960	202	617	17	5	30	27	36	8	17	12
16	Plant Held FFU- Prod	-	-	-	-	-	-	-	-	-	-	13
17	Plant Held FFU- Transm	-	-	-	-	-	-	-	-	-	-	13
18	Plant Held FFU- Dist	-	-	-	-	-	-	-	-	-	-	13
19	CWIP Storage	10,975	2,238	6,250	213	89	338	324	436	880	207	4
20	CWIP Transmission	80,643	13,375	37,725	1,247	540	3,657	3,586	4,932	13,257	2,321	3
21	CWIP Distribution	77,587	16,290	49,879	1,408	428	2,444	2,175	2,918	675	1,370	12
22	CWIP Distribution - Main	82,683	17,512	53,621	1,514	460	2,627	2,339	3,136	-	1,473	12A
23	CWIP General	30,261	6,154	18,538	541	178	1,009	921	1,242	1,093	584	13
24	CWIP Intangible	16,393	3,334	10,043	293	97	547	499	673	592	316	13
25	Accum. Depr. - Production	-	-	-	-	-	-	-	-	-	-	1
26	Accum. Depr. - Storage	(237,695)	(48,470)	(135,351)	(4,609)	(1,933)	(7,321)	(7,022)	(9,450)	(19,061)	(4,478)	4
27	Accum. Depr. - Transmission	(367,250)	(60,912)	(171,803)	(5,681)	(2,460)	(16,655)	(16,333)	(22,463)	(60,374)	(10,571)	3
28	Accum. Depr. - Distribution	(947,805)	(198,999)	(609,320)	(17,206)	(5,227)	(29,854)	(26,575)	(35,641)	(8,241)	(16,742)	12
29	Accum. Depr. - Dist. Mains	(1,010,052)	(213,928)	(655,033)	(18,496)	(5,619)	(32,094)	(28,569)	(38,315)	-	(17,998)	12A
30	Accum. Depr. - Intangible	(37,282)	(7,582)	(22,839)	(667)	(220)	(1,244)	(1,135)	(1,530)	(1,347)	(719)	13
31	Accum. Depr. - General	(156,653)	(31,857)	(95,966)	(2,802)	(923)	(5,225)	(4,768)	(6,429)	(5,660)	(3,023)	13
32	Accum. Depr. - Future Use	-	-	-	-	-	-	-	-	-	-	13
33	WC-Taxes	846,267	172,096	518,423	15,134	4,988	28,229	25,757	34,732	30,575	16,332	13
34	WC-Rev Rec&Pay	12,797	2,906	8,485	274	92	306	204	195	235	101	15
35	WC- Sales Storage	13,816	3,560	9,768	350	139	-	-	-	-	-	1
36												
37	Total Rate Base	\$ 6,943,963	\$ 1,403,839	\$ 4,260,122	\$ 123,435	\$ 40,656	\$ 229,915	\$ 209,781	\$ 282,846	\$ 260,361	\$ 133,008	

Source: Col. (b): WP TJK-7 and Company Books and Records (Plant) TJK-4 (Working Capital); Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Operating Expense Allocation  
(\$000)

Case No: U-21291  
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Witness: T. J. Krynski  
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Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Operating Expenses</b>												
1	O&M Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage	15,207	3,101	8,659	295	124	468	449	605	1,219	286	4
3	Transmission	89,727	14,882	41,975	1,388	601	4,069	3,990	5,488	14,751	2,583	3
4	Distribution	141,924	30,059	92,040	2,599	790	4,510	4,014	5,384	-	2,529	12A
5	Lost & Company Use Gas	43,209	11,132	30,548	1,094	435	-	-	-	-	-	1
6	Customer Accounts - Supv.	2,030	456	1,499	37	6	23	6	2	1	1	5
7	Meter Reading Expenses	4,953	1,113	3,659	89	15	56	14	5	2	2	5
8	Customer Records	41,648	9,362	30,763	750	123	467	114	40	14	15	5
9	Merchant Fees	6,260	2,165	3,995	47	53	-	-	-	-	-	Direct
10	Customer Accts. - Other	58,383	3,986	54,093	270	9	19	4	1	0	0	8
11	Customer Assistance - Supv.	0	0	0	0	0	0	0	0	0	0	8
12	Customer Services	2,999	205	2,778	14	0	1	0	0	0	0	8
13	Customer Communications	(3)	-	(2)	(0)	-	-	-	-	-	-	10
14	Misc Customer Exp	3,076	210	2,850	14	0	1	0	0	0	0	8
15	A&G Expense	172,046	30,791	113,840	2,585	809	4,516	4,036	5,414	7,511	2,544	17
16	Depr Production	-	-	-	-	-	-	-	-	-	-	1
17	Storage	15,350	3,130	8,741	298	125	473	453	610	1,231	289	4
18	Transmission	20,873	3,462	9,764	323	140	947	928	1,277	3,431	601	3
19	Distribution	89,873	18,870	57,777	1,631	496	2,831	2,520	3,380	781	1,587	12
20	Distribution - Mains	95,776	20,285	62,112	1,754	533	3,043	2,709	3,633	-	1,707	12A
21	General	18,513	3,765	11,341	331	109	618	563	760	669	357	13
22	Amort. of Intangible Plt.	7,214	1,467	4,419	129	43	241	220	296	261	139	13
23	Amort. of Reg. Debits	(4,380)	(784)	(2,898)	(66)	(21)	(115)	(103)	(138)	(191)	(65)	17
24	Property Taxes	114,068	23,197	69,878	2,040	672	3,805	3,472	4,682	4,121	2,201	13
25	Other Taxes	3,263	663	1,999	58	19	109	99	134	118	63	13
26	Payroll Taxes	13,608	2,435	9,004	204	64	357	319	428	594	201	17
27	State/City Income Taxes	8,889	1,797	5,453	158	52	294	269	362	333	170	18
28												
29	Operating Expenses	\$ 964,507	\$ 185,750	\$ 624,288	\$ 16,043	\$ 5,197	\$ 26,731	\$ 24,076	\$ 32,362	\$ 34,846	\$ 15,212	

Source: Col. (b): WP TJK-3 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Revenue Requirement By Rate Class  
(\$000)

Case No: U-21291  
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Witness: T. J. Krynski  
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Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Revenue Requirement</b>												
1	Operating Expenses	\$ 964,507	\$ 185,750	\$ 624,288	\$ 16,043	\$ 5,197	\$ 26,731	\$ 24,076	\$ 32,362	\$ 34,846	\$ 15,212	
2	Amort. Of Debt Disc.	1,756	355	1,077	31	10	58	53	72	66	34	18
3	AFUDC	(4,680)	(923)	(2,760)	(82)	(28)	(167)	(154)	(209)	(259)	(98)	14
4	Income Required	489,217	98,903	300,135	8,696	2,864	16,198	14,780	19,927	18,343	9,371	18
5	Federal Income Tax	20,664	5,835	10,676	636	87	2,465	932	(180)	134	79	22
6	TCJA Amortization	(11,716)	(2,369)	(7,188)	(208)	(69)	(388)	(354)	(477)	(439)	(224)	18
7	Subtotal - COS	\$ 1,459,748	\$ 287,552	\$ 926,229	\$ 25,116	\$ 8,062	\$ 44,898	\$ 39,333	\$ 51,495	\$ 52,691	\$ 24,372	
8	Uncollectibles	35,149	7,613	23,126	697	246	732	641	839	859	397	20
9	Total Cost of Service	\$ 1,494,897	\$ 295,165	\$ 949,355	\$ 25,813	\$ 8,308	\$ 45,630	\$ 39,974	\$ 52,334	\$ 53,550	\$ 24,769	
10												
11	Storage Revenue	\$ (38,469)	\$ (7,844)	\$ (21,905)	\$ (746)	\$ (313)	\$ (1,185)	\$ (1,136)	\$ (1,529)	\$ (3,085)	\$ (725)	4
12	Off System Transp. Revenue	(73,175)	(12,137)	(34,232)	(1,132)	(490)	(3,319)	(3,254)	(4,476)	(12,030)	(2,106)	3
13	Subtotal - Midstream	\$ (111,644)	\$ (19,981)	\$ (56,137)	\$ (1,878)	\$ (803)	\$ (4,503)	\$ (4,391)	\$ (6,005)	\$ (15,114)	\$ (2,831)	
14	Appliance Service Programs	\$ (99,257)	\$ (20,840)	\$ (63,810)	\$ (1,802)	\$ (547)	\$ (3,126)	\$ (2,783)	\$ (3,732)	\$ (863)	\$ (1,753)	12
15	Gas-in-Kind Revenue	(28,646)	(7,380)	(20,252)	(725)	(288)	-	-	-	-	-	1
16	Other Revenue	(11,721)	(2,309)	(7,437)	(202)	(65)	(360)	(316)	(413)	(423)	(196)	19
17	Blue Lake Pipeline	(1,291)	(254)	(819)	(22)	(7)	(40)	(35)	(46)	(47)	(22)	19
18	Vector Pipeline	(2,870)	(565)	(1,821)	(49)	(16)	(88)	(77)	(101)	(104)	(48)	19
19	Subtotal - Other Revenue	\$ (143,784)	\$ (31,349)	\$ (94,139)	\$ (2,800)	\$ (923)	\$ (3,615)	\$ (3,211)	\$ (4,293)	\$ (1,436)	\$ (2,018)	
20												
21	Low Income Assist. Pilot	\$ 30,624	\$ 6,633	\$ 20,148	\$ 607	\$ 214	\$ 638	\$ 559	\$ 731	\$ 748	\$ 346	20
22	Low Income Assist. Credit	(30,624)		(30,624)								
23	Cust. Discount											
24	Re Alloc Cust. Discount											
25	Standby Chgs. / Min Vol. Rev.	(1,914)	(11)	-	-	-	(76)	(1,579)	(247)	-	-	Direct
26	Subtotal - Other Dist. Rev.	\$ (1,914)	\$ 6,622	\$ (10,476)	\$ 607	\$ 214	\$ 561	\$ (1,021)	\$ 484	\$ 748	\$ 346	
27												
28	Revenue Requirement	\$ 1,237,555	\$ 250,456	\$ 788,603	\$ 21,742	\$ 6,796	\$ 38,073	\$ 31,352	\$ 42,520	\$ 37,747	\$ 20,266	

Source: Col. (b): WP TJK-3 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Revenue Requirement	\$ 1,237,555	\$ 250,456	\$ 788,603	\$ 21,742	\$ 6,796	\$ 38,073	\$ 31,352	\$ 42,520	\$ 37,747	\$ 20,266
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Michigan Public Service Commission  
DTE Gas Company  
Service Charge - Staff Method  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.1  
Witness: T. J. Krysinski  
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Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S
1	<b>Plant</b>					
2	Services	\$ 2,038,785	\$ 458,285	\$ 1,505,913	\$ 36,732	\$ 6,036
3	Meters	427,601	97,642	320,848	7,826	1,286
4	Meter/Reg	549,450	125,465	412,276	10,056	1,652
5	Industrial Meters	1,841	-	-	-	-
6	Total Plant	\$ 3,017,678	\$ 681,392	\$ 2,239,036	\$ 54,614	\$ 8,974
7	Cost Rate	7.53%	7.53%	7.53%	7.53%	7.53%
8	Annual Plant Cost	\$ 227,126	\$ 51,285	\$ 168,521	\$ 4,111	\$ 675
9	<b>Expense</b>					
10	Customer Accounts - Supv.	\$ 2,030	\$ 456	\$ 1,499	\$ 37	\$ 6
11	Meter Reading Expenses	4,953	1,113	3,659	89	15
12	Customer Records	41,648	9,362	30,763	750	123
13	Merchant Fees	6,260	2,165	3,995	47	53
14	Customer Accts. - Other	58,383	3,986	54,093	270	9
15	Total Expenses	\$ 113,274	\$ 17,082	\$ 94,010	\$ 1,193	\$ 206
16	<b>Cost Per Customer</b>					
17	Total Cost	\$ 340,400	\$ 68,367	\$ 262,531	\$ 5,303	\$ 882
18	Customer Count	1,340,887	91,545	1,242,379	6,201	216
19	Annual Cost	253.86	746.81	211.31	855.24	4,086.04
20	Monthly Cost	\$ 21.2	\$ 62.2	\$ 17.6	\$ 71.3	\$ 340.5

Source: Col. (b): WP TJK-3 and Company Books and Records; Colc. (c) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Allocation Factors

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.1  
Witness: T. J. Krynsinski  
Page: 7 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
1	Commodity	100.0000%	25.764%	70.698%	2.532%	1.006%	0.000%	0.000%	0.000%	0.000%	0.000%	1
2	Throughput	100.0000%	12.734%	34.943%	1.251%	0.497%	5.301%	5.981%	9.250%	26.302%	3.740%	2
3	Average & Peak	100.0000%	16.586%	46.781%	1.547%	0.670%	4.535%	4.447%	6.116%	16.439%	2.878%	3
3A	A&P no XXLT	100.0000%	19.849%	55.984%	1.851%	0.801%	5.427%	5.322%	7.320%	0.000%	3.445%	3A
4	Storage	100.0000%	20.392%	56.943%	1.939%	0.813%	3.080%	2.954%	3.976%	8.019%	1.884%	4
5	Weighted Customers - All	100.0000%	22.478%	73.863%	1.802%	0.296%	1.121%	0.273%	0.097%	0.034%	0.036%	5
6	Weighted Customers - R & C	100.0000%	22.835%	75.034%	1.830%	0.301%	0.000%	0.000%	0.000%	0.000%	0.000%	6
7	Weighted Customers - LV	100.0000%	0.000%	0.000%	0.000%	0.000%	71.824%	17.469%	6.211%	2.174%	2.323%	7
8	Customer - All	100.0000%	6.827%	92.654%	0.462%	0.016%	0.032%	0.006%	0.001%	0.001%	0.000%	8
9	Customer - R & C	100.0000%	6.830%	92.691%	0.463%	0.016%	0.000%	0.000%	0.000%	0.000%	0.000%	9
10	Customer - Res.	100.0000%	0.000%	99.503%	0.497%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	10
11	Customer Related Plant	100.0000%	22.580%	74.197%	1.810%	0.297%	0.801%	0.195%	0.069%	0.024%	0.026%	11
12	Distribution Plant	100.0000%	20.996%	64.287%	1.815%	0.552%	3.150%	2.804%	3.760%	0.869%	1.766%	12
12A	Dist Plant no XXLT	100.0000%	21.180%	64.851%	1.831%	0.556%	3.177%	2.828%	3.793%	0.000%	1.782%	12A
13	Plant in Service	100.0000%	20.336%	61.260%	1.788%	0.589%	3.336%	3.044%	4.104%	3.613%	1.930%	13
14	CWIP	100.0000%	19.730%	58.972%	1.748%	0.600%	3.558%	3.298%	4.468%	5.526%	2.101%	14
15	Revenue	100.0000%	22.705%	66.300%	2.144%	0.720%	2.392%	1.595%	1.523%	1.834%	0.787%	15
16	Revenue Less Cost of Gas	100.0000%	20.515%	63.153%	1.866%	0.515%	4.104%	2.737%	2.614%	3.147%	1.350%	16
17	O&M Expense Less Gas	100.0000%	17.897%	66.168%	1.503%	0.470%	2.625%	2.346%	3.147%	4.366%	1.479%	17
18	Rate Base	100.0000%	20.217%	61.350%	1.778%	0.585%	3.311%	3.021%	4.073%	3.749%	1.915%	18
19	COSS Allocation	100.0000%	19.699%	63.451%	1.721%	0.552%	3.076%	2.695%	3.528%	3.610%	1.670%	19
20	COSS + COG Allocation	100.0000%	21.659%	65.793%	1.983%	0.699%	2.082%	1.824%	2.388%	2.443%	1.130%	20
21	Uncollectibles - Net Write-offs	0.0000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	21
22	Pre-Tax NOI	100.0000%	28.237%	51.666%	3.076%	0.423%	11.930%	4.512%	-0.872%	0.647%	0.381%	22

Source: Exh. A-16, Sch. F1.2

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 1**  
**Commodity (MMcf)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 1 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Volume</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	40,985	25.764%
2	Rate A - Residential	112,464	70.698%
3	Rate 2A - Multi-Family	4,027	2.532%
4	Rate S - Schools	1,600	1.006%
5	Rate ST Transportation		0.000%
6	Rate LT Transportation		0.000%
7	Rate XLT Transportation		0.000%
8	Rate XXLT Transportation		0.000%
9	Exelon		0.000%
10	Total	<u>159,077</u>	<u>100.000%</u>

Source: Workpaper TJK-1

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 2**  
**Throughput (MMcf)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 2 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Volume</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	40,985	12.734%
2	Rate A - Residential	112,464	34.943%
3	Rate 2A - Multi-Family	4,027	1.251%
4	Rate S - Schools	1,600	0.497%
5	Rate ST Transportation	17,061	5.301%
6	Rate LT Transportation	19,248	5.981%
7	Rate XLT Transportation	29,772	9.250%
8	Rate XXLT Transportation	84,653	26.302%
9	Exelon	12,036	3.740%
10	Total	<u>321,847</u>	<u>100.000%</u>

Source: Workpaper TJK-1

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 3  
Average and Peak

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 3 of 22

Line No.	(a) Average Demand	(b) Annual Demand	(c) Daily Demand	(d) % of Total	(e) % of Average Portion
1	Rate GS-1/GS-2 - General	40,985,028	112,288	12.734%	4.554%
2	Rate A - Residential	112,464,297	308,121	34.943%	12.497%
3	Rate 2A - Multi-Family	4,027,460	11,034	1.251%	0.448%
4	Rate S - Schools	1,599,946	4,383	0.497%	0.178%
5	Rate ST Transportation	17,060,651	46,742	5.301%	1.896%
6	Rate LT Transportation	19,248,430	52,735	5.981%	2.139%
7	Rate XLT Transportation	29,772,211	81,568	9.250%	3.308%
8	Rate XXLT Transportation	84,652,694	231,925	26.302%	9.407%
9	Exelon	12,036,332	32,976	3.740%	1.337%
10	Total	<u>321,847,048</u>	<u>881,773</u>	<u>100.000%</u>	<u>35.764%</u>
	<b>Peak Demand</b>		<b>Peak Day Demand</b>	<b>% of Total</b>	<b>% of Peak Portion</b>
11	Rate GS-1/GS-2 - General		461,804	18.730%	12.032%
12	Rate A - Residential		1,315,899	53.372%	34.284%
13	Rate 2A - Multi-Family		42,192	1.711%	1.099%
14	Rate S - Schools		18,882	0.766%	0.492%
15	Rate ST Transportation		101,303	4.109%	2.639%
16	Rate LT Transportation		88,602	3.594%	2.308%
17	Rate XLT Transportation		107,783	4.372%	2.808%
18	Rate XXLT Transportation		269,937	10.948%	7.033%
19	Exelon		59,141	2.399%	1.541%
20	Total		<u>2,465,544</u>	<u>100.000%</u>	<u>64.236%</u>
	<b>Average and Peak</b>				<b>% of Average and Peak</b>
21	Rate GS-1/GS-2 - General				16.586%
22	Rate A - Residential				46.781%
23	Rate 2A - Multi-Family				1.547%
24	Rate S - Schools				0.670%
25	Rate ST Transportation				4.535%
26	Rate LT Transportation				4.447%
27	Rate XLT Transportation				6.116%
28	Rate XXLT Transportation				16.439%
29	Exelon				2.878%
30	Total				<u>100.000%</u>

Source: Page 2 and Workpaper TJK-1

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 4**  
**Storage Demand**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 4 of 22

	(a)	(b)	(c)	(d)	(e)	(f)
<b>Line No.</b>	<b>Rate Class</b>	<b>Peak Day Volume</b>	<b>50% Peak Allocation</b>	<b>Annual Storage Cap.</b>	<b>50% Annual Allocation</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	461,804	9.365%	18,525	11.027%	20.392%
2	Rate A - Residential	1,315,899	26.686%	50,832	30.257%	56.943%
3	Rate 2A - Multi-Family	42,192	0.856%	1,820	1.084%	1.939%
4	Rate S - Schools	18,882	0.383%	723	0.430%	0.813%
5	Rate ST Transportation	101,303	2.054%	1,723	1.026%	3.080%
6	Rate LT Transportation	88,602	1.797%	1,944	1.157%	2.954%
7	Rate XLT Transportation	107,783	2.186%	3,007	1.790%	3.976%
8	Rate XXLT Transportation	269,937	5.474%	4,275	2.545%	8.019%
9	Exelon	59,141	1.199%	1,150	0.685%	1.884%
10	Total	<u>2,465,544</u>	<u>50.000%</u>	<u>84,000</u>	<u>50.000%</u>	<u>100.000%</u>

Source: Page 3, Company Books and Records and Workpaper TJK-1

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 5  
Weighted Customers - All

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 5 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) Weighting Factors	(d) Weighted Customers	(e) % of Total
1	Rate GS-1/GS-2 - General	91,545	4.13	378,085	22.478%
2	Rate A - Residential	1,242,379	1.00	1,242,379	73.863%
3	Rate 2A - Multi-Family	6,201	4.89	30,304	1.802%
4	Rate S - Schools	216	23.07	4,980	0.296%
5	Rate ST Transportation	433	43.54	18,855	1.121%
6	Rate LT Transportation	85	53.95	4,586	0.273%
7	Rate XLT Transportation	20	81.52	1,630	0.097%
8	Rate XXLT Transportation	7	81.52	571	0.034%
9	sc		81.52	-	0.000%
9	Exelon	1	609.82	610	0.036%
10	Total	<u>1,340,887</u>		<u>1,681,999</u>	<u>100.000%</u>

Source: Workpaper TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 6  
Weighted Customers - R & C

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 6 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) Weighting Factors	(d) Weighted Customers	(e) % of Total
1	Rate GS-1/GS-2 - General	91,545	4.13	378,085	22.835%
2	Rate A - Residential	1,242,379	1.00	1,242,379	75.034%
3	Rate 2A - Multi-Family	6,201	4.89	30,304	1.830%
4	Rate S - Schools	216	23.07	4,980	0.301%
5	Rate ST Transportation	-	43.54	-	0.000%
6	Rate LT Transportation	-	53.95	-	0.000%
7	Rate XLT Transportation	-	81.52	-	0.000%
8	Rate XXLT Transportation	-	81.52	-	0.000%
9	Exelon	-	609.82	-	0.000%
10	Total	<u>1,340,341</u>		<u>1,655,748</u>	<u>100.000%</u>

Source: Workpaper TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 7  
Weighted Customers - LV

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 7 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) Weighting Factors	(d) Weighted Customers	(e) % of Total
1	Rate GS-1/GS-2 - General	-	4.13	-	0.000%
2	Rate A - Residential	-	1.00	-	0.000%
3	Rate 2A - Multi-Family	-	4.89	-	0.000%
4	Rate S - Schools	-	23.07	-	0.000%
5	Rate ST Transportation	433	43.54	18,855	71.824%
6	Rate LT Transportation	85	53.95	4,586	17.469%
7	Rate XLT Transportation	20	81.52	1,630	6.211%
8	Rate XXLT Transportation	7	81.52	571	2.174%
9	Exelon	1	609.82	610	2.323%
10	Total	<u>546</u>		<u>26,251</u>	<u>100.000%</u>

Source: Workpaper TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 8  
Customers - All

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 8 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) % of Total
1	Rate GS-1/GS-2 - General	91,545	6.827%
2	Rate A - Residential	1,242,379	92.654%
3	Rate 2A - Multi-Family	6,201	0.462%
4	Rate S - Schools	216	0.016%
5	Rate ST Transportation	433	0.032%
6	Rate LT Transportation	85	0.006%
7	Rate XLT Transportation	20	0.001%
8	Rate XXLT Transportation	7	0.001%
9	Exelon	1	0.000%
10	Total	<u>1,340,887</u>	<u>100.000%</u>

Source: Workpaper TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 9  
Customers - R & C

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 9 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) % of Total
1	Rate GS-1/GS-2 - General	91,545	6.830%
2	Rate A - Residential	1,242,379	92.691%
3	Rate 2A - Multi-Family	6,201	0.463%
4	Rate S - Schools	216	0.016%
5	Rate ST Transportation	-	0.000%
6	Rate LT Transportation	-	0.000%
7	Rate XLT Transportation	-	0.000%
8	Rate XXLT Transportation	-	0.000%
9	Exelon	-	0.000%
10	Total	<u>1,340,341</u>	<u>100.000%</u>

Source: Workpaper TJK-2

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 10  
Customers - Residential

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 10 of 22

Line No.	(a) Rate Class	(b) # of Customers	(c) % of Total
1	Rate GS-1/GS-2 - General	-	0.000%
2	Rate A - Residential	1,242,379	99.503%
3	Rate 2A - Multi-Family	6,201	0.497%
4	Rate S - Schools	-	0.000%
5	Rate ST Transportation	-	0.000%
6	Rate LT Transportation	-	0.000%
7	Rate XLT Transportation	-	0.000%
8	Rate XXLT Transportation	-	0.000%
9	Exelon	-	0.000%
10	Total	<u>1,248,580</u>	<u>100.000%</u>

Source: Workpaper TJK-2

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 11**  
**Customer Related Plant**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 11 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	681,392	22.580%
2	Rate A - Residential	2,239,036	74.197%
3	Rate 2A - Multi-Family	54,614	1.810%
4	Rate S - Schools	8,974	0.297%
5	Rate ST Transportation	24,177	0.801%
6	Rate LT Transportation	5,880	0.195%
7	Rate XLT Transportation	2,091	0.069%
8	Rate XXLT Transportation	732	0.024%
9	Exelon	782	0.026%
10	Total	<u>3,017,678</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 1, Line 13

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 12**  
**Distribution Plant**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 12 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	1,313,798	20.996%
2	Rate A - Residential	4,022,751	64.287%
3	Rate 2A - Multi-Family	113,591	1.815%
4	Rate S - Schools	34,511	0.552%
5	Rate ST Transportation	197,096	3.150%
6	Rate LT Transportation	175,452	2.804%
7	Rate XLT Transportation	235,305	3.760%
8	Rate XXLT Transportation	54,408	0.869%
9	Exelon	110,529	1.766%
10	Total	<u>6,257,441</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 1, Line 15

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 13**  
**Plant in Service**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 13 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	1,633,028	20.336%
2	Rate A - Residential	4,919,359	61.260%
3	Rate 2A - Multi-Family	143,610	1.788%
4	Rate S - Schools	47,335	0.589%
5	Rate ST Transportation	267,868	3.336%
6	Rate LT Transportation	244,414	3.044%
7	Rate XLT Transportation	329,574	4.104%
8	Rate XXLT Transportation	290,130	3.613%
9	Exelon	154,977	1.930%
10	Total	<u>8,030,294</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 1, Line 17

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 14**  
**Construction Work in Progress**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 14 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	58,903	19.730%
2	Rate A - Residential	176,055	58.972%
3	Rate 2A - Multi-Family	5,217	1.748%
4	Rate S - Schools	1,792	0.600%
5	Rate ST Transportation	10,623	3.558%
6	Rate LT Transportation	9,845	3.298%
7	Rate XLT Transportation	13,338	4.468%
8	Rate XXLT Transportation	16,498	5.526%
9	Exelon	6,272	2.101%
10	Total	<u>298,542</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 3, Lines 19-24

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 15  
Revenue  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krysinski  
Page: 15 of 22

	(a)	(b)	(c)	(d)	(e)
Line No.	Rate Class	Amount	Cost of Gas (1)	Incl. COG	% of Total
1	Rate GS-1/GS-2 - General	199,803	179,562	379,365	22.705%
2	Rate A - Residential	615,070	492,723	1,107,794	66.300%
3	Rate 2A - Multi-Family	18,173	17,645	35,818	2.144%
4	Rate S - Schools	5,020	7,010	12,030	0.720%
5	Rate ST Transportation	39,972	-	39,972	2.392%
6	Rate LT Transportation	26,652	-	26,652	1.595%
7	Rate XLT Transportation	25,456	-	25,456	1.523%
8	Rate XXLT Transportation	30,645	-	30,645	1.834%
9	Exelon	13,145	-	13,145	0.787%
10	Total	<u>973,937</u>	<u>696,939</u>	<u>1,670,876</u>	<u>100.000%</u>

(1) Cost of Gas included for GCC customers  
Source: Col. (b): TJK-8; Col. (c): Page 1 Priced at COG of \$4.381

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 16  
Revenue Less Cost of Gas  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 16 of 22

	(a)	(b)	(c)
Line No.	Rate Class	Amount	% of Total
1	Rate GS-1/GS-2 - General	199,803	20.515%
2	Rate A - Residential	615,070	63.153%
3	Rate 2A - Multi-Family	18,173	1.866%
4	Rate S - Schools	5,020	0.515%
5	Rate ST Transportation	39,972	4.104%
6	Rate LT Transportation	26,652	2.737%
7	Rate XLT Transportation	25,456	2.614%
8	Rate XXLT Transportation	30,645	3.147%
9	Exelon	13,145	1.350%
10	Total	<u>973,937</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.2, Page 15, Col. (b)

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 17**  
**O&M Less Gas**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
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	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	65,540	17.897%
2	Rate A - Residential	242,310	66.168%
3	Rate 2A - Multi-Family	5,503	1.503%
4	Rate S - Schools	1,722	0.470%
5	Rate ST Transportation	9,613	2.625%
6	Rate LT Transportation	8,591	2.346%
7	Rate XLT Transportation	11,525	3.147%
8	Rate XXLT Transportation	15,987	4.366%
9	Exelon	5,416	1.479%
10	Total	<u>366,205</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 2, Line 16 less Line 5

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 18**  
**Rate Base**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
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	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	1,403,839	20.217%
2	Rate A - Residential	4,260,122	61.350%
3	Rate 2A - Multi-Family	123,435	1.778%
4	Rate S - Schools	40,656	0.585%
5	Rate ST Transportation	229,915	3.311%
6	Rate LT Transportation	209,781	3.021%
7	Rate XLT Transportation	282,846	4.073%
8	Rate XXLT Transportation	260,361	3.749%
9	Exelon	133,008	1.915%
10	Total	<u>6,943,963</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 3, Line 37

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Allocation Schedules for the Projected Test Year Ending 09/30/2025**  
**Allocation Schedule # 19**  
**Total COS Less Uncollectibles**  
**(\$000)**

Case No: U-21291  
 Exhibit: A-16  
 Schedule: F1.2  
 Witness: T. J. Krynski  
 Page: 19 of 22

	(a)	(b)	(c)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	287,552	19.699%
2	Rate A - Residential	926,229	63.451%
3	Rate 2A - Multi-Family	25,116	1.721%
4	Rate S - Schools	8,062	0.552%
5	Rate ST Transportation	44,898	3.076%
6	Rate LT Transportation	39,333	2.695%
7	Rate XLT Transportation	51,495	3.528%
8	Rate XXLT Transportation	52,691	3.610%
9	Exelon	24,372	1.670%
10	Total	<u>1,459,748</u>	<u>100.000%</u>

Source: Exh. A-16, Sch. F1.1, Page 5, Line 7

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 20  
COS + COG Allocation  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
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	(a)	(b)	(c)	(d)	(e)
<b>Line No.</b>	<b>Rate Class</b>	<b>Amount</b>	<b>Cost of Gas (1)</b>	<b>Incl. COG</b>	<b>% of Total</b>
1	Rate GS-1/GS-2 - General	287,552	179,562	467,113	21.659%
2	Rate A - Residential	926,229	492,723	1,418,952	65.793%
3	Rate 2A - Multi-Family	25,116	17,645	42,761	1.983%
4	Rate S - Schools	8,062	7,010	15,072	0.699%
5	Rate ST Transportation	44,898	-	44,898	2.082%
6	Rate LT Transportation	39,333	-	39,333	1.824%
7	Rate XLT Transportation	51,495	-	51,495	2.388%
8	Rate XXLT Transportation	52,691	-	52,691	2.443%
9	Exelon	24,372	-	24,372	1.130%
10	Total	<u>1,459,748</u>	<u>696,939</u>	<u>2,156,687</u>	<u>100.000%</u>

(1) Cost of Gas included for GCC customers  
Source: Col. (b): Page 19; Col. (c): Page 15

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 21  
Uncollectibles - Net Write-offs  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krysinski  
Page: 21 of 22

Line No.	(a) Rate Class	(b) Amount	(c) % of Total
1	Rate GS-1/ GS-2 - General	-	0.000%
2	Rate A - Residential	-	0.000%
3	Rate 2A - Multi-Family	-	0.000%
4	Rate S - Schools	-	0.000%
5	Rate ST Transportation	-	0.000%
6	Rate LT Transportation	-	0.000%
7	Rate XLT Transportation	-	0.000%
8	Rate XXLT Transportation	-	0.000%
9	Exelon	-	0.000%
10	Total	-	0.000%

Allocator Not Used in  
COSS

Source: WP TJK-13

Michigan Public Service Commission  
DTE Gas Company  
Allocation Schedules for the Projected Test Year Ending 09/30/2025  
Allocation Schedule # 22  
Pre-Tax NOI  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F1.2  
Witness: T. J. Krynski  
Page: 22 of 22

	(a)	(b)	(c)	(d)	(e)
Line No.	Rate Class	Revenue	Expenses Less Taxes	Pre-Tax NOI	% of Total
1	Rate GS-1/GS-2 - General	199,803	157,658	42,145	28.237%
2	Rate A - Residential	615,070	537,954	77,116	51.666%
3	Rate 2A - Multi-Family	18,173	13,582	4,591	3.076%
4	Rate S - Schools	5,020	4,389	631	0.423%
5	Rate ST Transportation	39,972	22,166	17,806	11.930%
6	Rate LT Transportation	26,652	19,918	6,735	4.512%
7	Rate XLT Transportation	25,456	26,757	(1,301)	-0.872%
8	Rate XXLT Transportation	30,645	29,680	965	0.647%
9	Exelon	13,145	12,576	569	0.381%
10	Total	973,937	824,679	149,258	100.000%

Source: Col (b): Workpaper TJK-8; Col (c): A-16, F1.1, p4

Michigan Public Service Commission  
DTE Gas Company  
Summary of Projected Test Year Ending 09/30/2025  
Proposed Gas Revenue Increase

Case No: U-21291  
Exhibit: A-16  
Schedule: F2  
Witness: T. J. Krynski  
Page No. 1 of 4

Line No.	(a) Rate Class	(b) Test Year MMcf	(c) Annual Operating Revenues (\$000) Test Year		(e) Increase / (Decrease) Revenues (\$000) Percent	
			(d) Current (1)	(d) Proposed (2)	(e) Revenues (\$000)	(f) Percent
Jus	<b>Residential</b>					
1	Rate A	112,464	1,154,404	1,258,696	104,292	9.03%
2	Rate 2A	4,027	36,366	39,164	2,798	7.69%
3	Total Residential Services	116,492	1,190,770	1,297,860	107,089	8.99%
	<b>General Services</b>					
4	GS-1/GS-2	40,985	364,227	393,713	29,486	8.10%
5						
	<b>School</b>					
6	Rate S	1,600	10,898	11,150	252	2.31%
7	Subtotal Gas Sales Revenues	159,077	1,565,896	1,702,723	136,827	8.74%
	<b>Transportation</b>					
8	Rate ST	17,061	46,063	51,403	5,341	11.59%
9	Rate LT	19,248	30,967	32,671	1,704	5.50%
10	Rate XLT	29,772	29,299	32,995	3,696	12.61%
11	Rate XXLT	84,653	31,324	35,937	4,613	14.73%
12	Exelon	12,036	13,145	20,870	7,725	58.77%
13	Total Transportation Services	162,770	150,798	173,876	23,078	15.30%
14	<b>Total</b>	321,847	1,716,694	1,876,599	159,905	9.31%
15	Less: GCR Revenues (included above)		618,473	618,473	-	
16	Less: Currently Approved IRM Surcharge Revenue (included above)		126,295	-	(126,295)	
17	Less: 2025 IRM Surcharge Revenue (included above)		-	20,668	20,668	
18	Base Revenues		971,926	1,237,458	265,532	27.32%

(1) Projected test year billing determinants at the current base rates including IRM Revenue using projected test year billing determinants at the IRM rate approved in U-20940 for all rate schedules and GCR revenues using projected test year billing determinants at the projected cost of gas sold of \$4.381/Mcf (Exhibit A-13, Schedule C4) for the sales rate schedules.

(2) Projected test year billing determinants at the proposed rates including IRM Revenue using projected test year billing determinants at the 2025 IRM rate proposed on Exhibit A-18, Schedule H4 for all rate schedules and GCR revenues using projected test year billing determinants at the projected cost of gas sold of \$4.381/Mcf (Exhibit A-13, Schedule C4) for the sales rate schedules.

Sources: Exhibit A-16 Sch. F3, Exhibit A-18, Sch. H4, & WP TJK-11

**Michigan Public Service Commission  
DTE Gas Company  
Comparison of Rates**

Case No: U-21291  
Exhibit: A-16  
Schedule: F2  
Witness: T. J. Krynski  
Page: 2 of 4

Line No.	(a) Rate Class	(b) Current Rates (\$/Mcf)	(c) Proposed Rates (\$/Mcf)
	<b><u>Residential</u></b>		
1	Rate A		
2	Customer Charge	13.50	17.60
3	Low Income Assistance Credit	(30.00)	(40.00)
4	RIA Credit	(13.50)	(17.60)
5	Distribution Charge	3.8859	4.9395
6	Rate 2A		
7	Customer Charge Meter Class 1	13.50	17.60
8	Customer Charge Meter Class 2	40.00	50.00
9	Distribution Charge	3.8859	4.9395
10	Rate S		
11	Customer Charge	225.00	275.00
12	Distribution Charge	2.7736	3.2646
	<b><u>General Services</u></b>		
13	GS-1		
14	Customer Charge	40.00	50.00
15	Distribution Charge	3.8069	4.7970
16	GS-2		
17	Customer Charge	750.00	925.00
18	Distribution Charge	3.1984	4.0470

**Michigan Public Service Commission  
DTE Gas Company  
Comparison of Rates**

Case No: U-21291  
Exhibit: A-16  
Schedule: F2  
Witness: T. J. Krysinski  
Page: 3 of 4

Line No.	(a) Rate Class	(b)	(c)
		Current Rates (\$/Mcf)	Proposed Rates (\$/Mcf)
<b><u>Transportation Service</u></b>			
1	Rate ST Small Transportation Service		
2	Customer Charge	2,780	3,300
3	Transportation Charge - Cost Based	1.4906	1.9503
4	Transportation Charge - Market Floor	0.2300	0.2300
5	Transportation Charge - Market Ceiling	2.7512	3.6706
6	Rate LT Large Transportation Service		
7	Customer Charge	6,780	9,100
8	Transportation Charge - Cost Based	0.9427	1.1663
9	Transportation Charge - Market Floor	0.2300	0.2300
10	Transportation Charge - Market Ceiling	1.6554	2.1026
11	Rate XLT Extra Large Transportation Service		
12	Customer Charge	17,250	20,000
13	Transportation Charge - Cost Based	0.7060	0.9039
14	Transportation Charge - Market Floor	0.1800	0.1800
15	Transportation Charge - Market Ceiling	1.2321	1.6278
16	Rate XXL Extra Large Transportation Service		
17	Customer Charge	169,835	230,000
18	Transportation Charge - Cost Based	0.1933	0.1939
19	Transportation Charge - Market Floor	0.0500	0.0500
20	Transportation Charge - Market Ceiling	1.2321	1.6278

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Present and Proposed Customer Charges  
For Sales and Transportation Rate Schedules

Case No: U-21291  
Exhibit: A-16  
Schedule: F2  
Witness: T. J. Krynski  
Page: 4 of 4

Line No.	(a) Description	(b) Current	(c) Per Cost of Service Study (1)	(d) Proposed
<b><u>SALES RATE SCHEDULES</u></b>				
1	Rate A (Residential Rate)	\$ 13.50	\$ 51.75	\$ 17.60
2	* Current: \$13.50 credit applicable to RIA			
3	* Current: \$30 credit applicable for Low Income Assistance			
4	Rate 2A (Residential Multiple Family Dwelling)			
5	Meter Class I	\$ 13.50	\$ 280.96	\$ 17.60
6	Meter Class II	\$ 40.00		\$ 50.00
7	Rate GS-1 (Non-Residential General Service)	\$ 40.00	\$ 220.59	\$ 50.00
8	Rate GS-2 (General Service Large Volume Rate)	\$ 750.00		\$ 925.00
9				
10	Rate S (School Rate)	\$ 225.00	\$ 2,539.71	\$ 275.00
<b><u>TRANSPORTATION RATE SCHEDULES</u></b>				
11	Rate ST	\$ 2,780.00	\$ 7,327.3	\$ 3,300.00
12	Rate LT	\$ 6,780.00	\$ 30,737.2	\$ 9,100.00
13	Rate XLT	\$ 17,250.00	\$ 177,166.5	\$ 20,000.00
14	Rate XXLT	\$ 169,835.00	\$ 449,370.2	\$ 230,000.00

(1) Source: Exhibit A-16 Schedule F1

Michigan Public Service Commission  
DTE Gas Company  
Calculation of the Projected Test Year Ending 09/30/2025  
Current and Proposed Revenues by Rate Schedule  
Residential Service - Rates A and 2A  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F3  
Witness: T. J. Krynski  
Page: 1 of 4

Line No.	(a) Description	(b) Customers/ MMcf	(c) Current Rate	(d) Pro Forma Revenue	(e) Proposed Rate	(f) Proposed Revenue	(g) Proposed Revenue Increase/(Decrease)		(h)
							Amount	Percent	
<b>Rate A</b>									
1	Customer Charge	1,242,379	\$ 13.50	\$ 201,265	\$ 17.60	\$ 262,390			
2	Low Income Assistance Credit	33,000	\$ (30.00)	(11,880)	\$ (40.00)	(15,840)			
3	RIA Credit	70,000	\$ (13.50)	(11,340)	\$ (17.60)	(14,784)			
4	Low Income Assistance Credit	-				-			
5	RIA Credit	-				-			
6	Total			\$ 178,045		\$ 231,766			
7	Distribution Charge	112,464	\$ 3.8859	\$ 437,025	\$ 4.9395	\$ 555,519			
8	Subtotal Residential	112,464		\$ 615,070		\$ 787,286	\$ 172,215		28.00%
<b>Rate 2A (Multiple Family)</b>									
9	Customer Charge								
10	Meter Class 1	1,428	\$ 13.50	\$ 231	\$ 17.60	\$ 302			
11	Meter Class 2	4,774	\$ 40.00	2,291	\$ 50.00	2,864			
12	Total Service Charge	6,201		\$ 2,523		\$ 3,166			
13	Distribution Charge	4,027	\$ 3.8859	\$ 15,650	\$ 4.9395	\$ 19,894			
14	Subtotal Multi-Family Dwelling	4,027		\$ 18,173		\$ 23,059	\$ 4,886		26.89%
15	Total Residential	116,492		\$ 633,243		\$ 810,345	\$ 177,102		27.97%
<b>Fuel</b>									
16	Rate A								
17	GCR Volumes	104,864	\$ 4.3812	\$ 459,424	\$ 4.3812	\$ 459,424	\$ -		0.0%
18	Non-GCR Volumes	7,601	\$ -	-	\$ -	-	-		
19	Total	112,464		\$ 459,424		\$ 459,424	-		
20	Rate 2A								
21	GCR Volumes	3,590	\$ 4.3812	\$ 15,727	\$ 4.3812	\$ 15,727	\$ -		0.0%
22	Non-GCR Volumes	438	\$ -	-	\$ -	-	-		
23	Total	4,027		\$ 15,727		\$ 15,727	-		
<b>Calculation of Distribution Charge:</b>									
24	Revenue Requirement	\$ 810,345					\$ 810,345		
25	Less Annual Revenue From:						\$ -		
26	Customer Charges	\$ 234,932					\$ -		
27							\$ -		
28	Distribution Revenue	\$ 575,413					\$ 810,345		
29	Divided by Throughput	116,492	MMcf				\$ -		
30	Proposed Distribution Charge	\$ 4.9395	per Mcf						
31	Proposed Customer Charges:								
32	Residential	\$ 17.60	Per Month						
33	Rate 2A Meter Class 2	\$ 50.00	Per Month						
34	Low Income Credit	\$ (40.00)	Per Month						
35	IRM Charge (2025)								
36	Rate A	\$ 0.80	Per Month						
37	Rate 2A	\$ 5.07	Per Month						

Source: Exh. A-16, Sch F1.1 (Rev Req); TJK-1 (Volumes); TJK-2 (Customers); Exh. A-18, Sch. H4 (IRM); and Exh. A-13, Sch C4 (COG)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of the Projected Test Year Ending 09/30/2025  
Current and Proposed Revenues by Rate Schedule  
General Service - Rates GS-1 & GS-2  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F3  
Witness: T. J. Krynski  
Page: 2 of 4

Line No.	(a) Description	(b) Customers/ MMcf	(c) Current Rate	(d) Pro Forma Revenue	(e) Proposed Rate	(f) Proposed Revenue	(g) Proposed Revenue Increase/(Decrease)		(h)
							Amount	Percent	
1	<b>General Service - Rate GS-1:</b>								
2	Customer Charge	91,459	\$ 40.00	\$ 43,900	\$ 50.00	\$ 54,875			
3	Distribution Charge	39,490.9	\$ 3.8069	150,338	\$ 4.7970	189,439			
4	Subtotal Rate GS-1	39,490.9		\$ 194,238		\$ 244,314	\$ 50,076		25.8%
5	<b>General Service - Rate GS-2:</b>								
6	Customer Charge	86	\$ 750.00	\$ 775	\$ 925.00	\$ 956			
7	Distribution Charge	1,494.1	\$ 3.1984	4,778.7	\$ 4.0470	6,047			
8	Subtotal Rate GS-2	1,494		\$ 5,553		\$ 7,002	\$ 1,449		26.1%
9	Total General Service	40,985		\$ 199,792		\$ 251,317	\$ 51,525		25.8%
	<b>Fuel</b>								
10	<b>GS-1</b>								
11	GCR Volumes	30,124	\$ 4.3812	\$ 131,977	\$ 4.3812	\$ 131,977	\$ -		0.0%
12	Non-GCR Volumes	9,367	\$ -	-	\$ -	-	-		
13	Total	39,491		\$ 131,977		\$ 131,977	\$ -		
14	<b>GS-2</b>								
15	GCR Volumes	1,433	\$ 4.3812	\$ 6,280	\$ 4.3812	\$ 6,280	\$ -		0.0%
16	Non-GCR Volumes	61	\$ -	-	\$ -	-	-		
17	Total	1,494		\$ 6,280		\$ 6,280	\$ -		
18	Total GS-1/GS-2			\$ 338,049		\$ 389,574			
	<b>Calculation of Distribution Charge:</b>								
19		<b>Rate GS-1</b>	<b>Rate GS-2</b>		Rev Req: GS-1 and GS-2	\$ 250,456			
20	Revenue Requirement	\$ 251,317			Rounding	\$ -			
21	Less: Customer Charges	55,831			Rate Design Adjustment	\$ 860			
22					Adj Rev Req	\$ 251,317			
23	Distribution Revenue	\$ 195,486			Revenues	\$ 251,317			
24	Plus GS-2 Difference	1,121				\$ -			
25	Adj. Rev	\$ 196,606							
26	Divide by: Throughput	40,985			Variable Rate				
27					Differential				
28	<b>Distribution Charge</b>	\$ 4,7970	\$ 4,0470	\$ 0,7500					
29	<b>Proposed Customer Charges</b>	\$ 50.00	\$ 925.00						
30	IRM Charge (2025)	\$ 3.77	\$ 3.77						
31									
	<b>Breakeven Analysis</b>								
		<b>GS-1 vs. GS-2</b>							
		<b>Current</b>	<b>Proposed</b>						
32	Annual Fixed Charges: Small	\$ 480	\$ 645						
33	Annual Fixed Charges: Large	\$ 9,000	\$ 11,145						
34	Annual Fixed Cost Differential	\$ 8,520	\$ 10,500						
35	Variable Rate Differential	\$ 0.6085	\$ 0.7500						
36	<b>Annual Break Even (Mcf)</b>	<b>14,002</b>	<b>14,000</b>						

Source: Exh. A-16, Sch. F1.1 (Rev Req); TJK-1 (Volumes); TJK-2 (Customers); Exh. A-18, Sch. H4 (IRM); and Exh. A-13, Sch C4 (COG)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of the Projected Test Year Ending 09/30/2025  
Current and Proposed Revenues by Rate Schedule  
School Service Rate S  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F3  
Witness: T. J. Krysinski  
Page: 3 of 4

Line No.	(a) Description	(b) Customers / MMcf	(c) Current Rate	(d) Pro Forma Revenue	(e) Proposed Rate	(f) Proposed Revenue	(g) Proposed Revenue Increase/(Decrease)		(h)
							Amount	Percent	
1	Customer Charge	215.8	\$ 225.00	\$ 583	\$ 275.00	\$ 712			
2	Distribution Charge	1,600	\$2.7736	\$ 4,438	\$3.2646	\$ 5,223			
3	Total Rate S	1,600		\$ 5,020		\$ 5,935	\$ 915	18.2%	
	<u>Fuel</u>								
4	Rate S								
5	GCR Volumes	1,156	\$ 4.3812	\$ 5,065	\$ 4.3812	\$ 5,065	\$ -	0.0%	
6	Non-GCR Volumes	444	\$ -	\$ -	\$ -	\$ -	\$ -		
7	Total	1,600		\$ 5,065		\$ 5,065	\$ -		
	<b>Calculation of Distribution Charge:</b>								
8					Rev Req:		\$ 6,796		
9	Revenue Requirement	\$ 5,935			Rounding		-		
10	Less Annual Revenue From:				Rate Design Adjustment		(860)		
11	Customer Charges	\$ 712			Adj Rev Req		\$ 5,935		
12					Revenues		5,935		
13	Distribution Revenue	\$ 5,223			Difference		\$ (0)		
14	Divided by Throughput	1,600	Mcf						
15	Proposed Distribution Charge	\$ 3.2646	per Mcf						
16	<b>Proposed Customer Charges</b>	<b>\$ 275.00</b>							
17	IRM Charge (2025)	\$ 57.54							
	<b>Breakeven Analysis</b>								
			<b>GS-1 vs. S</b>						
			<b>Current</b>	<b>Proposed</b>					
18	Annual Fixed Charges: GS-1	\$ 480	\$ 480	\$ 645					
19	Annual Fixed Charges: S	\$ 2,700	\$ 2,700	\$ 3,991					
20	Annual Fixed Cost Differential	\$ 2,220	\$ 2,220	\$ 3,345					
21	Variable Rate Differential	\$ 1,0333	\$ 1,0333	\$ 1,5324					
22	<b>Annual Break Even (Mcf)</b>	<b>2,148</b>	<b>2,148</b>	<b>2,183</b>					

Source: Exh. A-16, Sch. F1.1 (Rev Req); TJK-1 (Volumes); TJK-2 (Customers); Exh. A-18, Sch. H4 (IRM); and Exh. A-13, Sch C4 (COG)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of the Projected Test Year Ending 09/30/2025  
Current and Proposed Revenues by Rate Schedule  
Transportation Service Rate ST, LT, XLT and XXL  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F3  
Witness: T. J. Krynsink  
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Line No.	(a) Description	(b) Customers/ MMcf	(c) Current Rate	(d) Pro Forma Revenue	(e) Proposed Rate	(f) Proposed Revenue	(g) Proposed Revenue Increase/(Decrease) Amount	(h) Proposed Revenue Increase/(Decrease) Percent
<b>Customer Charge</b>								
1	Rate Schedule ST	433	\$ 2,780	\$ 14,445	3,300	\$ 17,147	\$ 2,702	18.71%
2	Rate Schedule LT	85	\$ 6,780	6,916	9,100	9,282	2,366	34.22%
3	Rate Schedule XLT	20	\$ 17,250	4,140	20,000	4,800	660	15.94%
4	Rate Schedule XXL	7	\$ 169,835	14,266	230,000	19,320	5,054	35.43%
5	Total Customer Charges	545		\$ 39,767		\$ 50,549	\$ 10,782	27.11%
<b>Distribution Charges</b>								
6	Rate Schedule ST	17,061	\$ 1,4906	\$ 25,431	\$ 1,9503	\$ 33,274	\$ 7,843	30.84%
7	Rate Schedule LT	19,248	\$ 0,9427	18,145	1,1663	22,449	4,304	23.72%
8	Rate Schedule XLT	29,772	\$ 0,7060	21,019	0,9039	26,911	5,892	28.03%
10	Rate Schedule XXL	84,653	\$ 0,1933	16,363	0,1939	16,411	48	0.29%
12	Total Distribution Charges	150,734		\$ 80,959		\$ 99,046	\$ 18,087	22.34%
13	Total ST, LT, XLT and XXL			\$ 120,725		\$ 149,594	\$ 28,869	23.91%

**Calculation of Transportation Rates:**

Rate Schedule:	ST	LT	XLT	XXLT		
14 Revenue Req Per COSS	\$ 38,073	\$ 31,352	\$ 42,520	\$ 37,747	Rev Req: EUT Rounding	\$ 149,692
15 Discount					Remote Meter	\$ (97)
16 Rate Design Adjustment	12,368	392	(10,760)	(2,000)	Rate Design Adjustment	0
17 Target Revenue	\$ 50,441	\$ 31,744	\$ 31,760	\$ 35,747	Adj Rev Req	\$ 149,594
18 Less Remote Meter Fees	20.3	12.3	49.2	15.6	Revenues	\$ 149,594
19 Less Customers Charges	17,147	9,282	4,800	19,320	Difference	\$ 0
20 Distribution Revenue	\$ 33,274	\$ 22,449	\$ 26,911	\$ 16,411		
21 Divided by Throughput	17,061	19,248	29,772	84,653		
22 Transportation Rate (\$/Mcf)	\$ 1.9503	\$ 1.1663	\$ 0.9039	\$ 0.1939		
23 Average Cost Per Mcf	\$ 2.9566	\$ 1.6492	\$ 1.0668	\$ 0.4223		
24 Proposed Customer Charge:	\$ 3,300	\$ 9,100	\$ 20,000	\$ 230,000		
25 Year 1 IRM Charge 2025	\$ 189.18	\$ 921.04	\$ 5,349.26	\$ 2,443.58		

Breakeven Analysis	ST vs. LT	LT vs. XLT	XLT vs. XXL
26 Annual Fixed Charges - ST	\$ 41,870	LT \$ 120,253	XLT \$ 304,191
27 Annual Fixed Charges - LT	\$ 120,253	XLT \$ 304,191	XXLT \$ 2,789,323
28 Annual Fixed Cost Differential	\$ 78,382	\$ 183,939	\$ 2,485,132
29 Variable Rate Differential	\$ 0.7840	\$ 0.2624	\$ 0.7100
30 Annual Break Even (Mcf)	99,975	701,000	3,500,000

Source: Exh. A-16, Sch. F1.1 (Rev Req); TJK-1 (Volumes); TJK-2 (Customers); Exh. A-18, Sch. H4 (IRM)

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: Residential  
Rate Schedule: A

Case No: U-21291  
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Witness: T. J. Krynski  
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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 13.50	\$ 17.60	\$ 4.10	30.37%		
2	5	\$ 54.84	\$ 64.20	\$ 9.37	17.08%	\$ 10.97	\$ 12.84
3	10	\$ 96.17	\$ 110.81	\$ 14.64	15.22%	\$ 9.62	\$ 11.08
4	20	\$ 178.84	\$ 204.01	\$ 25.17	14.08%	\$ 8.94	\$ 10.20
5	25	\$ 220.18	\$ 250.62	\$ 30.44	13.83%	\$ 8.81	\$ 10.02
6	30	\$ 261.51	\$ 297.22	\$ 35.71	13.65%	\$ 8.72	\$ 9.91
7	40	\$ 344.18	\$ 390.43	\$ 46.24	13.44%	\$ 8.60	\$ 9.76
8	50	\$ 426.85	\$ 483.63	\$ 56.78	13.30%	\$ 8.54	\$ 9.67
9	<b>Customer Charge (per Month)</b>	<b>\$ 13.50</b>	<b>\$ 17.60</b>				
10	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8859</b>	<b>\$ 4.9395</b>				
11	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: Residential  
Rate Schedule: 2A Meter Class 1  
Multiple Family Dwelling Service

Case No: U-21291  
Exhibit: A-16  
Schedule: F4  
Witness: T. J. Krysinski  
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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 13.50	\$ 17.60	\$ 4.10	30.37%		
2	5	\$ 54.84	\$ 64.20	\$ 9.37	17.08%	\$ 10.97	\$ 12.84
3	10	\$ 96.17	\$ 110.81	\$ 14.64	15.22%	\$ 9.62	\$ 11.08
4	20	\$ 178.84	\$ 204.01	\$ 25.17	14.08%	\$ 8.94	\$ 10.20
5	25	\$ 220.18	\$ 250.62	\$ 30.44	13.83%	\$ 8.81	\$ 10.02
6	30	\$ 261.51	\$ 297.22	\$ 35.71	13.65%	\$ 8.72	\$ 9.91
7	40	\$ 344.18	\$ 390.43	\$ 46.24	13.44%	\$ 8.60	\$ 9.76
8	50	\$ 426.85	\$ 483.63	\$ 56.78	13.30%	\$ 8.54	\$ 9.67
9	60	\$ 509.52	\$ 576.84	\$ 67.32	13.21%	\$ 8.49	\$ 9.61
10	70	\$ 592.19	\$ 670.05	\$ 77.85	13.15%	\$ 8.46	\$ 9.57
11	80	\$ 674.86	\$ 763.25	\$ 88.39	13.10%	\$ 8.44	\$ 9.54
12	90	\$ 757.53	\$ 856.46	\$ 98.93	13.06%	\$ 8.42	\$ 9.52
13	100	\$ 840.21	\$ 949.67	\$ 109.46	13.03%	\$ 8.40	\$ 9.50
14	<b>Customer Charge (per Month)</b>	<b>\$ 13.50</b>	<b>\$ 17.60</b>				
15	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8859</b>	<b>\$ 4.9395</b>				
16	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: Residential  
Rate Schedule: 2A Meter Class 2  
Multiple Family Dwelling Service

Case No: U-21291  
Exhibit: A-16  
Schedule: F4  
Witness: T. J. Krysinski  
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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 40.00	\$ 50.00	\$ 10.00	25.00%		
2	100	\$ 866.71	\$ 982.07	\$ 115.36	13.31%	\$ 8.67	\$ 9.82
3	200	\$ 1,693.41	\$ 1,914.13	\$ 220.72	13.03%	\$ 8.47	\$ 9.57
4	300	\$ 2,520.12	\$ 2,846.20	\$ 326.09	12.94%	\$ 8.40	\$ 9.49
5	400	\$ 3,346.82	\$ 3,778.27	\$ 431.45	12.89%	\$ 8.37	\$ 9.45
6	500	\$ 4,173.53	\$ 4,710.33	\$ 536.81	12.86%	\$ 8.35	\$ 9.42
7	600	\$ 5,000.23	\$ 5,642.40	\$ 642.17	12.84%	\$ 8.33	\$ 9.40
8	700	\$ 5,826.94	\$ 6,574.47	\$ 747.53	12.83%	\$ 8.32	\$ 9.39
9	800	\$ 6,653.64	\$ 7,506.54	\$ 852.89	12.82%	\$ 8.32	\$ 9.38
10	900	\$ 7,480.35	\$ 8,438.60	\$ 958.26	12.81%	\$ 8.31	\$ 9.38
11	1000	\$ 8,307.05	\$ 9,370.67	\$ 1,063.62	12.80%	\$ 8.31	\$ 9.37
12	1500	\$ 12,440.58	\$ 14,031.00	\$ 1,590.43	12.78%	\$ 8.29	\$ 9.35
13	2000	\$ 16,574.10	\$ 18,691.34	\$ 2,117.24	12.77%	\$ 8.29	\$ 9.35
14	<b>Customer Charge (per Month)</b>	<b>\$ 40.00</b>	<b>\$ 50.00</b>				
15	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8859</b>	<b>\$ 4.9395</b>				
16	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: Non-Residential General Service  
Rate Schedule: GS-1

Case No: U-21291  
Exhibit: A-16  
Schedule: F4  
Witness: T. J. Krysinski  
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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 40.00	\$ 50.00	\$ 10.00	25.00%		
2	5	\$ 80.94	\$ 95.89	\$ 14.95	18.47%	\$ 16.19	\$ 19.18
3	10	\$ 121.88	\$ 141.78	\$ 19.90	16.33%	\$ 12.19	\$ 14.18
4	20	\$ 203.76	\$ 233.56	\$ 29.80	14.63%	\$ 10.19	\$ 11.68
5	25	\$ 244.70	\$ 279.45	\$ 34.75	14.20%	\$ 9.79	\$ 11.18
6	30	\$ 285.64	\$ 325.35	\$ 39.70	13.90%	\$ 9.52	\$ 10.84
7	40	\$ 367.52	\$ 417.13	\$ 49.61	13.50%	\$ 9.19	\$ 10.43
8	50	\$ 449.40	\$ 508.91	\$ 59.51	13.24%	\$ 8.99	\$ 10.18
9	60	\$ 531.28	\$ 600.69	\$ 69.41	13.06%	\$ 8.85	\$ 10.01
10	70	\$ 613.16	\$ 692.47	\$ 79.31	12.93%	\$ 8.76	\$ 9.89
11	80	\$ 695.04	\$ 784.25	\$ 89.21	12.84%	\$ 8.69	\$ 9.80
12	90	\$ 776.92	\$ 876.04	\$ 99.11	12.76%	\$ 8.63	\$ 9.73
13	100	\$ 858.81	\$ 967.82	\$ 109.01	12.69%	\$ 8.59	\$ 9.68
14	<b>Customer Charge (per Month)</b>	<b>\$ 40.00</b>	<b>\$ 50.00</b>				
15	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8069</b>	<b>\$ 4.7970</b>				
16	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: General Service (Large Volume)  
Rate Schedule: GS-2

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Exhibit: A-16  
Schedule: F4  
Witness: T. J. Krysinski  
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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 750.00	\$ 925.00	\$ 175.00	23.33%		
2	100	\$ 1,507.96	\$ 1,767.82	\$ 259.86	17.23%	\$ 15.08	\$ 17.68
3	200	\$ 2,265.91	\$ 2,610.64	\$ 344.73	15.21%	\$ 11.33	\$ 13.05
4	300	\$ 3,023.87	\$ 3,453.45	\$ 429.59	14.21%	\$ 10.08	\$ 11.51
5	400	\$ 3,781.82	\$ 4,296.27	\$ 514.45	13.60%	\$ 9.45	\$ 10.74
6	500	\$ 4,539.78	\$ 5,139.09	\$ 599.31	13.20%	\$ 9.08	\$ 10.28
7	600	\$ 5,297.73	\$ 5,981.91	\$ 684.18	12.91%	\$ 8.83	\$ 9.97
8	700	\$ 6,055.69	\$ 6,824.72	\$ 769.04	12.70%	\$ 8.65	\$ 9.75
9	800	\$ 6,813.64	\$ 7,667.54	\$ 853.90	12.53%	\$ 8.52	\$ 9.58
10	900	\$ 7,571.60	\$ 8,510.36	\$ 938.76	12.40%	\$ 8.41	\$ 9.46
11	1000	\$ 8,329.55	\$ 9,353.18	\$ 1,023.63	12.29%	\$ 8.33	\$ 9.35
12	<b>Customer Charge (per Month)</b>	<b>\$ 750.00</b>	<b>\$ 925.00</b>				
13	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.1984</b>	<b>\$ 4.0470</b>				
14	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates  
Rate Class: Schools  
Rate Schedule: S

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Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 225.00	\$ 275.00	\$ 50.00	22.22%		
2	100	\$ 940.48	\$ 1,039.58	\$ 99.10	10.54%	\$ 9.40	\$ 10.40
3	200	\$ 1,655.95	\$ 1,804.15	\$ 148.20	8.95%	\$ 8.28	\$ 9.02
4	300	\$ 2,371.43	\$ 2,568.73	\$ 197.30	8.32%	\$ 7.90	\$ 8.56
5	400	\$ 3,086.90	\$ 3,333.30	\$ 246.40	7.98%	\$ 7.72	\$ 8.33
6	500	\$ 3,802.38	\$ 4,097.88	\$ 295.50	7.77%	\$ 7.60	\$ 8.20
7	600	\$ 4,517.85	\$ 4,862.45	\$ 344.60	7.63%	\$ 7.53	\$ 8.10
8	700	\$ 5,233.33	\$ 5,627.03	\$ 393.70	7.52%	\$ 7.48	\$ 8.04
9	800	\$ 5,948.80	\$ 6,391.60	\$ 442.80	7.44%	\$ 7.44	\$ 7.99
10	900	\$ 6,664.28	\$ 7,156.18	\$ 491.90	7.38%	\$ 7.40	\$ 7.95
11	1000	\$ 7,379.75	\$ 7,920.75	\$ 541.00	7.33%	\$ 7.38	\$ 7.92
12	<b>Customer Charge (per Month)</b>	<b>\$225.00</b>	<b>\$275.00</b>				
13	<b>Distribution Charge (per Mcf)</b>	<b>\$ 2.7736</b>	<b>\$ 3.2646</b>				
14	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

Case No.: U-21291  
Exhibit: A-16  
Schedule: F5  
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<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
1.	A-26.00	II.A.(2)	Change section from “Curtailed of Gas Service for Gas Supply Deficiency” to “Curtailed of Gas Service Definitions” Update for additions and changes in curtailment definitions
		II.A.(3)	Remove “Curtailed of Gas Service During an Emergency Definitions” and definitions list.  Change to Definition in Standby Service - Added in U-20642 but not updated at that time.
2.	C-10.00	C3.1	Combining definitions from Curtailed of Gas Service for Gas Supply Deficiency and Curtailed of Gas Service During an Emergency  Change name of Section 3.1  Add definitions from Curtailed of Gas Service During an Emergency  Capitalize all defined terms  Update Section numbering references in Capacity Deficiency and Capacity Restriction to reflect changes in section numbering.  Remove “Customers” as defined term. Duplicative of System Supply Customers
3.	C-10.01	C3.1	Add language to Requirements for Plant Protection regarding customer responsibility to update DTE for changes  Capitalize all defined terms
4.	C-10.02	C3.1	System Supply Customers: Clarified that GCC Customers are included in this definition  Capitalize all defined terms

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

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<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
5.	C-11.00	C3.2	Change 3.2 from “Curtailement of Gas Service for Gas Supply Deficiency” to “Curtailement Priorities.”  Add “and industrial” after commercial in Priority One.
6.	C-11.01	C3.3	Renumber “Curtailement of Gas Service for Gas Supply Deficiency” to C3.3  Capitalize all defined terms
7.	C-12.00	C3.3	Renumber “Curtailement of Gas Service for Gas Supply Deficiency” to C3.3  Capitalize all defined terms
		C3.3 C.(2)	Update reference.
		C3.3 C.(4)	Clarify when complete curtailement by priority is reached.
8.	C-13.00	C3.3	Renumber “Curtailement of Gas Service for Gas Supply Deficiency” to C3.3  Capitalize all defined terms
		C3.3 E.	Remove Curtailement Priorities Section
		C3.3 F.(1)	Update Rule numbering.
9.	C-14.00	C3.3 G.	Update numbering  Remove ANR, ML7 point
10.	C-15.00	C3.4	Renumber “Curtailement of Gas Service for During an Emergency” to C3.4
		C3.4 A.	Remove Definitions
11.	C-15.00	C3.4 A.	Remove Definitions

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

Case No.: U-21291  
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<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
12.	C-16.00	C3.4	Renumber from “Curtailement of Gas Service for During an Emergency” to C3.4
		C3.4 B.	Note the steps are not required to be implemented in order listed
		C3.4 B.(5)	Capitalize defined term
		C3.4 B.(6)	Update language for defined term
13.	C-17.00	C3.4	Renumber “Curtailement of Gas Service for During an Emergency” to C3.4
		C3.4 C.	Update to remove defined term
		C3.4 C.	Capitalize defined term
14.	C-18	C3.4	Renumber “Curtailement of Gas Service for During an Emergency” to C3.4
			Capitalize all defined terms
15.	C-19	C3.4	Renumber “Curtailement of Gas Service for During an Emergency” to C3.4
			Capitalize all defined terms
		C3.4 D.(5)	Update reference numbering
16.	C-20	C3.4	Renumber “Curtailement of Gas Service for During an Emergency” to C3.4
			Capitalize all defined terms
			Update numbering
		C3.4 F.	Rename Section
			Remove Priorities

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

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<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
17.	C-22	C3.4	Renumber “Curtailed of Gas Service for During an Emergency” to C3.4  Capitalize all defined terms
		C3.4 G	Add OFO to language, specify time period for decision on disposition of diverted gas
18.	C-23	C3.4	Renumber “Curtailed of Gas Service for During an Emergency” to C3.4  Capitalize all defined terms
		C3.4 J.	Add Section on Billing
		C3.4 K.	Renumber; Remove ANR, ML7
		C4.2	Change “he” to “the customer”
19.	C-42	C8.9 B.(1)	Update Carrying Cost Rate
20.	C-43	C8.9 B.(1)	Update Discount Rate
21.	D-2.00	D2.1	Revise IRM rates and footnote to reflect proposed IRM plan.
22.	D-2.01	D2.2	Revise IRM definition and rates for updated proposal.
23.	D-9.00	D5	Revise Customer Charge and Distribution Charge for Residential Service Rate A.
24.	D-10.00	D5	Revise Residential Income Assistance Credit
25.	D-11	D5	Revise Low Income Assistance Credit
26.	D-14.00	D6	Revise Customer Charges and Distribution Charge for Multifamily Dwelling Service Rate 2A, Meter Classes I and II.

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

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<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
27.	D-17.00	D7	Revise Customer Charges and Distribution Charges for General Service Rates GS-1 and GS-2.
28.	D-19.00	D8	Revise Customer Charges and Distribution Charge for School Service Rate S.
29.	E-5.00	E2.2 E.	Provide exception for customers terminating service.
30.	E-8.00	E4.5 A.	Add language regarding when valid notice is provided
		E4.5 C.	Add language regarding Unauthorized Gas Usage penalty waiver
		E4.5 D.	Add language regarding Excess Storage Charges waiver
31.	E-14.00	E14	Add language allowing for return to sales rates in some cases  Revise Customer Charge and Transportation Rates for Transportation Service Rates ST and LT.
32.	E-15.00	E14	Revise Customer Charge and Transportation Rates for Transportation Service Rates XLT and XXLT.
33.	E-17.01	E14	Remove ANR, ML7 point  Add language regarding Unauthorized Gas Use Charge Waiver
34.	E-26.00	E17.1 (A)	Remove Gas Quality language and refer to Section E3
35.	E-35.00	E25	Remove ANR, ML7 point  Rates - Section B. Update Rate for contracts equal to or exceeding 365 days.
36.	E-35.01	E25	Remove ANR, ML7 point

**Michigan Public Service Commission  
DTE Gas Company  
Summary of Proposed Tariff Changes**

Case No.: U-21291  
Exhibit: A-16  
Schedule: F5  
Witness: T. J. Krysinski  
Page: 6 of 6

<u>Page</u>	<u>Sheet</u>	<u>Section</u>	<u>Description</u>
37.	E-37.00	E26	Remove ANR, ML7 point  Rates - Section B. Update Rate for contracts equal to or exceeding 65 days.
38.	E-37.01	E26	Remove ANR, ML7 point
39.	E-39.00	E27	Remove ANR, ML7 point
40.	E-41.00	E28	Remove ANR, ML7 point
41.	F-3.00	F1.1	Remove ANR, ML7 point

M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Definition Combination and Changes)

Revised Sheet No. A-26.00

(Continued from Sheet No. A-25.00)

**TECHNICAL TERMS AND ABBREVIATIONS (Contd.)  
(FOR ALL CUSTOMERS)**

**II. Definitions of additional technical terms and abbreviations are contained in the following sections:**

**A. Section C - Part I - Company Rules and Regulations (For All Customers)**

(1) Rule C2.7 Controlled Service Definitions

- (a) Alternate fuel capability
- (b) Commercial Customer use of natural gas
- (c) Industrial Customer use of natural gas
- (d) Use of natural gas for services essential for public health and safety
- (e) Residential Customer use of natural gas

(2) Rule C3.1 ~~Curtailment of Gas Service Definitions~~~~Curtailment of Gas for Gas Supply~~  
~~Deficiency Definitions~~

- |   |  |
|---|--|
| <u>(a) Blanket Certificate Customer</u> | <u>(i) Industrial Gas Requirements</u>             |
| <u>(b) Capacity Deficiency</u>          | <u>(j) Requirements for Plant Protection</u>       |
| <u>(c) Capacity Restriction</u>         | <u>(k) Requirements for Services Essential for</u> |
| <u>(d) Commercial Gas Requirements</u>  | <u>Public Health and Safety</u>                    |
| <u>(e) Deliveries</u>                   | <u>(l) Residential Gas Requirements</u>            |
| <u>(f) End Use Customer</u>             | <u>(m) Supply Deficiency</u>                       |
| <u>(g) Force Majeure</u>                | <u>(n) System Supply</u>                           |
| <u>(h) Gathering Systems</u>            | <u>(o) System Supply Customers</u>                 |

~~(3) Rule C4.5 (B) Definition of Standby Service~~

- |  |   |
|--|---|
| <del>(a) Commercial gas requirements</del> | <del>(d) Residential gas requirements</del> |
| <del>(b) Customers</del>                   | <del>(e) System supply customer</del>       |
| <del>(c) Industrial gas requirements</del> |   |

~~(3) Rule C3.2 Curtailment of Gas Service During an Emergency Definitions~~

- |   |  |
|---|--|
| <del>(a) Blanket certificate customer</del> | <del>(i) Gathering systems</del>                   |
| <del>(b) Capacity deficiency</del>          | <del>(j) Industrial gas requirements</del>         |
| <del>(c) Capacity restriction</del>         | <del>(k) Requirements for plant protection</del>   |
| <del>(d) Commercial gas requirements</del>  | <del>(l) Requirements for services essential</del> |
| <del>(e) Customers</del>                    | <del>for public health and safety</del>            |
| <del>(f) Deliveries</del>                   | <del>(m) Residential gas requirements</del>        |
| <del>(g) End use customer</del>             | <del>(n) Supply deficiency</del>                   |
| <del>(h) Force majeure</del>                |  |

(4) Rule C4.4 Centrally Metered Installation – Definition of a Centrally Metered Installation

- (a) Centrally Metered Installation

Decker:  
Page HJD-71, Lines 2-24;  
Page HJD-75, Lines 1-7;  
Krysinski:  
Page TJK-23, Lines 18-24

(Continued on Sheet No. A-27.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Combine Curtailment Definitions)

Revised Sheet No. C-10.00

(Continued from Sheet No. C-9.00)

**C2. CONTROLLED SERVICE (Contd.)**

**C2.8 Penalties for Violation**

Any gas used by a customer in additional equipment installed by an existing gas sales customer following the declaration of a controlled service condition and for which the customer has not received authorization, shall, during the period when a gas controlled service condition has been instituted pursuant to this Rule, be subject to excess use charges of \$10 per Mcf plus the highest city-gate price reported in Gas Daily for locations in the East North Central Region of the United States during the month in which the infraction occurred, with such charges being in addition to the rates set forth in the applicable Company Rate Schedule. Failure of the customer to pay such excess use charges when due shall constitute sufficient cause for the Company to shut off gas service to such customer. The Company reserves the right to shut off service to any customer who violates any of the provisions of this Rule.

**C3. CURTAILMENT OF GAS SERVICE**

**C3.1 ~~Curtailment of Gas Service for Gas Supply Deficiency~~ Curtailment of Gas Service Definitions**

The following terms used in this rule shall have the meanings hereinafter set forth:

**Blanket Certificate Customer** is a transportation customer who has contracted with the Company to transport gas in interstate commerce pursuant to a blanket certificate issued to the Company by the Federal Energy Regulatory Commission (FERC).

**Capacity Deficiency** shall mean emergency situations whereby load temporarily exceeds the capacity of the Company's pipeline system to deliver volumes commensurate with such load, but such that the full design capacity of the system is unaffected. See Section C3.4D(3) of this Rule.

**Capacity Restriction** shall mean restriction affecting deliveries to customers due to force majeure or other damage to the Company's facilities such that the full design capacity of the pipeline system is not available. See Section C3.D(1) of this Rule.

**Commercial ~~gas requirements~~ Gas Requirements** shall include all service to customers engaged primarily in the furnishing or sale of goods or services including schools, local, state and federal government agencies and other public or private institutions for use other than those involving manufacturing or electric power generation.

~~**Customers, unless otherwise specified, shall mean system supply customer.**~~

**Deliveries** shall mean both transportation and sales volumes.

**End Use Customer** is a customer under the Company's sales and transportation Rate Schedules where the gas is used or consumed on the customer's premises to which the gas was delivered.

(Continued on Sheet No. C-11.00)

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DTE Gas Company  
(Combine Curtailment Definitions, Plant Protection Responsibility Detail)

Revised Sheet No. C-10.01

(Continued from Sheet No. C-10.01)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.1 Curtailment of Gas Service Definitions (Contd.)**

Force Majeure shall mean acts of God, strikes, lockouts, or other industrial disturbances; acts of the public enemy, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, storms (including but not limited to hurricanes or hurricane warnings), crevasses, floods, washouts, arrests and restraints of the government, either Federal or State, civil or military, civil disturbances. Force majeure shall also mean shutdowns for purposes of necessary repairs, relocation, or construction of facilities; failure of electronic data capability; breakage or accident to machinery or lines of pipe; the necessity of testing (as required by governmental authority or as deemed necessary by the Company for the safe operation thereof), the necessity of making repairs or alterations to machinery or lines of pipe; failure of surface equipment or pipelines; accidents, breakdowns, inability to obtain necessary materials, supplies or permits, or labor to perform or comply with any obligation or condition of service, rights of way; and any other causes, whether of the kind herein enumerated or otherwise which are not reasonably within the control of the Company. It is understood that the settlement of strikes and lockouts or controversies with landowners involving rights of way shall be entirely within the Company's discretion and that the above requirement that any force majeure be remedied with all reasonable dispatch shall not require the settlement of strikes or lockouts or controversies with landowners involving rights of way by acceding to the demands of the opposing party when such course is inadvisable in the discretion of the Company.

Gathering Systems shall include but is not necessarily limited to, the Company's existing Wet Header System and laterals.

Industrial ~~gas requirements~~Gas Requirements shall include all service to customers engaged primarily in a process which creates or changes raw or unfinished materials into another form or product including the generation of electric power.

Requirements for Plant Protection shall mean such minimum volumes of gas as required to prevent physical harm to the plant facilities or danger to plant personnel when such protection cannot be afforded through the use of an alternate fuel. This includes the protection of such material in process as would otherwise be destroyed, but shall not include deliveries required to maintain plant production. For the purposes of this definition, propane and other gaseous fuels shall not be considered alternate fuels. It is the Customers sole responsibility to provide and update DTE with any plant protection volumes for their facility.

(Continued on Sheet No. C-11.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Combine Curtailment Definitions)

Revised Sheet No. C-10.02

(Continued from Sheet No. C-9.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.1 Curtailment of Gas Service Definitions (Contd.)**

Requirements for Services Essential for Public Health and Safety shall mean gas purchased for food processing and for use by or in connection with hospitals, convalescent homes, nursing homes, medical centers and clinics; water and sewage treatment and waste disposal facilities; civil defense centers and public utility buildings; newspapers, radio and television stations; fire stations, police stations, jails and penal institutions; and such other uses of gas as are found qualified by the Commission as requirements for services essential for public health and safety; provided, however, that requirements for boilers which have alternate fuel capability shall not qualify as requirements for services essential for public health and safety without the express authorization of the Commission after hearing.

**Residential gas requirements** shall include all direct natural gas usage for space heating, cooking, water heating, and other residential uses in a single family dwelling or in an individual flat or apartment; or to two or more households served by a single meter (one customer) in a multifamily dwelling, or portion thereof. A multifamily dwelling includes such living facilities as, for example, cooperatives, condominiums and apartments; provided each household within such multifamily dwelling has the normal household facilities such as bathroom, individual cooking and kitchen sink. A multifamily dwelling does not include such living facilities as, for example, penal or corrective institutions, motels, hotels, dormitories, nursing homes, tourist homes, military barracks, hospitals, special care facilities or any other facilities primarily associated with the purchase, sale or supplying (for profit or otherwise) of a commodity, product or service by a public or private person, entity, organization or institution.

Supply Deficiency shall mean emergency situations whereby the Company is temporarily unable to procure gas supplies commensurate with its system requirements.

System Supply shall mean supply sold directly to customers and includes gas delivered to Gas Customer Choice customers for this curtailment tariff only. It does not include End Use Transportation or Off System customers.

System ~~Supply Customer~~ supply customer shall mean those customers who purchase all of their natural gas requirements from the Company, which includes Gas Customer Choice for the purposes of this curtailment tariff only.

(Continued on Sheet No. C-11.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Create separate Priority Section, Renumber)

Revised Sheet No. C-10.02

(Continued from Sheet No. C 10.02)

### C3. CURTAILMENT OF GAS SERVICE (Contd.)

#### C3.21 Curtailment Priorities

For purposes of curtailment, five categories are established with Priority Five constituting the lowest priority and Priority One the highest.

Priority One - Residential gas requirements, commercial and industrial gas requirements of 1,250 Mcf or less per the base period month being curtailed, requirements for plant protection, and requirements for services essential for public health and safety.

Priority Two – Commercial and industrial gas requirements of 1,250 Mcf to 8,334 Mcf per the base period month being curtailed.

Priority Three - Commercial and industrial gas requirements of 8,334 Mcf to 41,667 Mcf per the base period month being curtailed.

Priority Four - Commercial and industrial gas requirements in excess of 41,667 Mcf per the base period month being curtailed.

Priority Five - Non-residential customers having gas requirements in excess of 41,667 Mcf per the base period month being curtailed and having installed alternate fuel capability available on short notice (only the alternate fuel load will be curtailed) and all sales of System Supply gas to non-System Supply customers.

#### C3.3 Curtailment of Gas Service for Gas Supply Deficiency

##### A. Determination of Need for Curtailment

- (1) If at any time the Company cannot provide continuous service to its ~~system supply customers~~ System Supply Customers because of an inability to procure sufficient gas volumes from its interstate pipeline suppliers or other suppliers, and reliable short term supplies are not available at reasonable and prudent prices, the Company has the right to curtail the distribution of ~~system supply~~ System Supply gas to its ~~System Supply Customerseustomers~~ System Supply Customers in accordance with the provisions of this Rule.
- (2) In implementing this Rule, however, all sales of ~~System Supplysystem supply gas~~ to other than ~~system supply customers~~ System Supply Customers shall be curtailed prior to curtailing, limiting or interrupting the distribution of gas to ~~system supply customers~~ System Supply Customers.
- (3) The Company may separately institute curtailment of its ~~system supply~~ System Supply gas in the integrated and non-integrated portions of its total system, consistent with the inability to procure sufficient gas volumes in each respective portion of its system.
- (4) This Curtailment Rule does not apply to gas owned by parties other than the Company.

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Capitalize Defined Terms)

Revised Sheet No. C-11.01

(Continued from Sheet No. C-11.00)

**C3.3 Curtailment of Gas Service for Gas Supply Deficiency**

**B. Notice of Curtailment**

- (1) The Company shall provide not less than 90 days advance written notice of curtailment to all ~~system-supply customers~~System Supply Customers expected to be curtailed, except where actions by foreign, federal, state, or local government or regulatory agencies preclude the giving of such notice.
- (2) The Company may immediately curtail or interrupt the distribution of ~~system-supply~~System Supply gas to non-~~system-supply customers~~System Supply Customers, by oral notice or otherwise, to the extent and for such duration as the Company in its sole judgment shall deem necessary.
- (3) Notification of curtailment shall specify the starting date, an estimate of the length of time the curtailment is expected to be in effect, and the classification of the priorities to be curtailed. Prior to and during the period of curtailment, all customers in curtailment priorities to be affected shall be given not less than 30 days advance written notice of the authorized volumes to which they will be entitled for the following month.

(Continued on Sheet No. C-12.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Capitalize Defined Terms, Complete Curtailment Clarification)

Revised Sheet No. C-12.00

Continued from Sheet No. C-11.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**~~C3.31~~ Curtailment of Gas Service for Gas Supply Deficiency (Contd.)**

**C. Method of Curtailment**

- (1) Prior to curtailment, the Company will make a Public Service Announcement for voluntary dial-down actions by ~~system supply customers~~ System Supply Customers.
- (2) Curtailments shall be made in accordance with the curtailment priorities set forth in Section ~~C3.2E of this Rule~~, beginning with the lowest priority category and proceeding to the next highest priority category. The total curtailment shall equal the estimated deficiency of gas brought about by the demands of all customers purchasing ~~system supply~~ System Supply gas in the integrated and/or non-integrated portions of the Company's system.
- (3) Curtailments may be simultaneously instituted in more than one curtailment category provided that gas usage falling within a lower priority category has been completely curtailed.
- (4) When curtailment of less than 100% of the sales volume in a particular curtailment priority is required, the available volumes shall be allocated to each customer assigned to that priority, on a pro-rata basis, using the customer's base period volumes that correspond to the month being curtailed. With respect to Priority Two, Three and Four, each of those categories shall be regarded as completely curtailed when all requirements other than requirements for plant protection have been curtailed.

**D. Base Period**

- (1) Base Period for System Supply Customers
  - (a) For the purpose of determining the customer's volumes within each Curtailment Priority Category, a twelve month base period shall be established. Such base period shall be fixed for the term of the curtailment. The base period volumes shall consist of the twelve consecutive monthly consumptions ending June of each year. In those instances where the customer has encountered strikes, interruption of gas service or unavoidable operational abnormalities, the Company may make reasonable adjustments to normalize the customer's requirements. Base period volumes may be adjusted for equipment added or deleted.
  - (b) In determining monthly consumptions, the Company shall determine the gas used during each month of the period described above for all buildings, parts of buildings, and equipment associated with each customer's gas billing in accordance with the Company's Rules and Regulations. Volumes specified in Curtailment Priorities One through Five shall apply in the aggregate for all equipment of the same end use rather than on a unit of equipment basis.
  - (c) The monthly consumption so determined, with such adjustments as provided above, shall then be used as the monthly requirement specified in the Curtailment Priority Categories. In determining a customer's Curtailment Priority Category, the applicable monthly requirement in the base period shall be used.

(Continued on Sheet No. C-13.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Renumber, Capitalize Defined Terms)

Revised Sheet No. C-13.00

(Continued from Sheet No. C-12.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.31 Curtailment of Gas Service for Gas Supply Deficiency (Contd.)**

(2) Base Period for Non-System Supply Customers

A base period is not established pursuant to this Rule for non-~~system supply customers~~System Supply Customers. The distribution of ~~system supply~~System Supply gas to non-~~system supply customers~~System Supply Customers is subject to Curtailment Priority Five whereby the Company has sole discretion in determining the extent and duration of curtailment of such customers.

**E. Curtailment Priorities**

~~For purposes of curtailment, five categories are established with Priority Five constituting the lowest priority and Priority One the highest.~~

~~Priority One—Residential gas requirements, commercial gas requirements of 1,250 Mcf or less per the base period month being curtailed, requirements for plant protection, and requirements for services essential for public health and safety.~~

~~Priority Two—Commercial gas requirements of 1,250 Mcf to 8,334 Mcf per the base period month being curtailed and industrial gas requirements of 8,334 Mcf or less per the base period month being curtailed.~~

~~Priority Three—Commercial and industrial gas requirements of 8,334 Mcf to 41,667 Mcf per the base period month being curtailed.~~

~~Priority Four—Commercial and industrial gas requirements in excess of 41,667 Mcf per the base period month being curtailed.~~

**Rate Adjustments**

A customer shall not be liable for any part of a monthly service charge provided in a Rate Schedule if such customer's consumption under that rate is completely curtailed for the entire billing period. No other rate adjustments will be permitted.

**~~GF.~~ Enforcement**

- (1) The Company reserves the right to inspect the customer's equipment, to install special metering, and to immediately terminate gas service for violations of this Rule, as provided by Rule ~~B~~71, Technical Standards for Gas Service, R 460.~~2373~~2371, Shutoff of Service. Once gas service is terminated, the Company may withhold such service until it is satisfied that the terms and conditions of this Rule will be observed.
- (2) There is nothing in this Rule that shall prevent a customer from challenging before the Commission the continuation of a curtailment or that shall abridge the customer's right to appeal any such determination to the Commission.

(Continued on Sheet No. C-14.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. C-14.00

(Continued from Sheet No. C-13.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.3 Curtailment of Gas Service for Gas Supply Deficiency (Contd.)**

**HG. Penalties for Violation**

Any gas used by a customer in excess of the volumes authorized during the period when a curtailment has been instituted pursuant to this Rule shall be subject to Unauthorized Gas Use Charges. The charge for such Unauthorized Gas Usage shall be \$1.00 per 100 cubic feet plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate. Unauthorized Gas Use Charges are in addition to those normal charges made under the applicable Rate Schedules, for all gas taken by Customer in excess of the cumulative volume delivered to Company (less Gas-in-Kind) on behalf of Customer. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service. Failure to pay an excess use charge when rendered shall subject the customer to termination of gas service.

(Continued on Sheet No. C-15.00)

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DTE Gas Company  
(Renumber, Remove Definitions)

Revised Sheet No. C-15.00

(Continued from Sheet No. C-14.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.42 Curtailment of Gas Service During an Emergency**

~~The following terms used in this rule shall have the meanings hereinafter set forth:~~

~~Blanket certificate customer is a transportation customer who has contracted with the Company to transport gas in interstate commerce pursuant to a blanket certificate issued to the Company by the Federal Energy Regulatory Commission (FERC).~~

~~Capacity deficiency shall mean emergency situations whereby load temporarily exceeds the capacity of the Company's pipeline system to deliver volumes commensurate with such load, but such that the full design capacity of the system is unaffected. See Section C3.2D(3) of this Rule.~~

~~Capacity restriction shall mean restriction due to force majeure or other damage to the Company's facilities such that the full design capacity of the pipeline system is not available. See Section C3.2D(1) of this Rule.~~

~~Commercial gas requirements shall include all service to customers engaged primarily in the furnishing or sale of goods or services including schools, local, state and federal government agencies and other public or private institutions for use other than those involving manufacturing or electric power generation.~~

~~Customers, unless otherwise specified, shall mean sales customers, transportation customers and storage customers.~~

~~Deliveries shall mean both transportation and sales volumes.~~

~~End use customer is a customer under the Company's sales and transportation Rate Schedules where the gas is used or consumed on the customer's premises to which the gas was delivered.~~

~~Force majeure shall mean acts of God, strikes, lockouts, or other industrial disturbances; acts of the public enemy, wars, blockades, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, storms (including but not limited to hurricanes or hurricane warnings), crevasses, floods, washouts, arrests and restraints of the government, either Federal or State, civil or military, civil disturbances. Force majeure shall also mean shutdowns for purposes of necessary repairs, relocation, or construction of facilities; failure of electronic data capability; breakage or accident to machinery or lines of pipe; the necessity of testing (as required by governmental authority or as deemed necessary by the Company for the safe operation thereof), the necessity of making repairs or alterations to machinery or lines of pipe; failure of surface equipment or pipelines; accidents, breakdowns, inability to obtain necessary materials, supplies or permits, or labor to perform or comply with any obligation or condition of service, rights of way; and any other causes, whether of the kind herein enumerated or otherwise which are not reasonably within the control of the Company. It is understood that the settlement of strikes and lockouts or controversies with landowners involving rights of way shall be entirely within the Company's discretion and that the above requirement that any force majeure be remedied with all reasonable dispatch shall not require the settlement of strikes or~~

~~involving rights of way by acceding to~~

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Renumber, Remove Definitions)

Revised Sheet No. C-15.00

~~the demands of the opposing party when such course is inadvisable in the discretion of the Company.~~

~~Gathering systems shall include but is not necessarily limited to, the Company's existing Wet Header System and laterals.~~

~~Industrial gas requirements shall include all service to customers engaged primarily in a process which creates or changes raw or unfinished materials into another form or product including the generation of electric power.~~

~~Requirements for plant protection shall mean such minimum volumes of gas as required to prevent physical harm to the plant facilities or danger to plant personnel when such protection cannot be afforded through the use of an alternate fuel. This includes the protection of such material in process as would otherwise be destroyed, but shall not include deliveries required to maintain plant production. For the purposes of this definition, propane and other gaseous fuels shall not be considered alternate fuels.~~

~~Requirements for services essential for public health and safety shall mean gas purchased for food processing and for use by or in connection with hospitals, convalescent homes, nursing homes, medical centers and clinics; water and sewage treatment and waste disposal facilities; civil defense centers and public utility buildings; newspapers, radio and television stations; fire stations, police stations, jails and penal institutions; and such other uses of gas as are found qualified by the Commission as requirements for services essential for public health and safety; provided, however, that requirements for boilers which have alternate fuel capability shall not qualify as requirements for services essential for public health and safety without the express authorization of the Commission after hearing.~~

~~Residential gas requirements shall include all direct natural gas usage for space heating, cooking, water heating, and other residential uses in a single family dwelling or in an individual flat or apartment; or to two or more households served by a single meter (one customer) in a multifamily dwelling, or portion thereof. A "multifamily dwelling" includes such living facilities as, for example, cooperatives, condominiums and apartments; provided each household within such multifamily dwelling has the normal household facilities such as bathroom, individual cooking and kitchen sink. A "multifamily dwelling" does not include such living facilities as, for example, penal or corrective institutions, motels, hotels, dormitories, nursing homes, tourist homes, military barracks, hospitals, special care facilities or any other facilities primarily associated with the purchase, sale or supplying (for profit or otherwise) of a commodity, product or service by a public or private person, entity, organization or institution.~~

~~Supply deficiency shall mean emergency situations whereby the Company is temporarily unable to procure gas supplies commensurate with its system requirements.~~

Decker:  
Page HJD-74, Lines 16-25;  
Page HJD-75, Lines 1-5  
Krynski:  
Page TJK-23, Lines 18-24

(Continued on Sheet No. C-16.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Clarify Order of Steps, Capitalize Defined Terms)

(Continued from Sheet No. C-15.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.42 Curtailment of Gas Service During an Emergency (Contd.)**

**A. Steps Prior to Curtailment**

When there is adequate time during an emergency situation, and if applicable, the following steps, not necessarily in this order, will be implemented by the Company prior to the enforcement of the curtailment plan established by this Rule.

- (1) Interrupt service provided under an “interruptible” rate or contract then in effect;
- (2) Implement contingency contracts for emergency gas supply purchases established in advance. Seek to purchase additional gas supplies at prices which shall be regarded as reasonable and prudent;
- (3) Curtail deliveries to any customer in excess of volumes allowed under contracts;
- (4) Request that End Use Customer~~transportation customers~~ balance deliveries with use and authorized storage withdrawal volumes on a daily basis;
- (5) Make a public service announcement for voluntary dial-down actions by ~~system supply customers~~System Supply Customers;
- (6) Ask End Use Customer~~transportation customers~~ to voluntarily reduce use and/or increase deliveries.

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Page HJD-72, Lines 9-14;  
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Page TJK-24, Lines 1-13

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DTE Gas Company  
(Capitalize, reflect change in Defined Terms )

Revised Sheet No. C-17.00

(Continued from Sheet No. C-16.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.24 Curtailment of Gas Service During an Emergency (Contd.)**

**B. Notice of Curtailment**

If a curtailment becomes necessary, Company shall provide notice to the Commission and all affected ~~customers~~Customers of the nature, probable duration and extent of such curtailment. Such notice will be given as far in advance as possible.

**C. Method of Curtailment**

- (1) If a curtailment becomes necessary due to ~~Capacity Restriction~~capacity restrictions, the Company shall determine the amount of firm service capacity that is available (residual firm capacity). The Company shall allocate that residual firm capacity between (i) transportation service provided pursuant to a FERC blanket certificate (Blanket Certificate Customers) and (ii) all other services (Other Customers), such allocation being made pro rata between such two classes of service, based upon the total volumes scheduled for service within each class on the applicable day.
- (2) The residual firm capacity which is allocated to Blanket Certificate Customers shall be allocated pro rata among the members of that class, based upon volumes scheduled for service by members of that class on the applicable day.

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(Continued from Sheet No. C-17.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.24 Curtailment of Gas Service During an Emergency (Contd.)**

- (3) The residual firm capacity which is allocated to the Other Customers shall be curtailed in accordance with the curtailment priority categories set forth in Section F of this Rule, beginning with Curtailment Priority Five and proceeding to the next highest priority category.
  - (a) Curtailments may be simultaneously instituted in more than one curtailment priority category provided that gas usage falling within a lower priority category is being completely curtailed.
  - (b) If system deliverability permits only partial delivery of gas to a given priority category of use, curtailment will be effected on the basis of a pro rata sharing using the base period deliveries to customers for that priority category. If a customer has entered into an arrangement for voluntary reduction of use and/or increase in deliveries pursuant to Paragraph B(6) above, the volumes associated with such voluntary reductions of use or increase in deliveries shall be attributed to that customer's pro rata share.
  - (c) Upon notice of a curtailment, the Company shall give customers with multiple locations, the option to select which location will be subject to the curtailment, consistent with the practical and physical operational constraints of the Company's system.
- (4) If curtailment becomes necessary due to an emergency situation resulting in a Supply Deficiency~~supply deficiency~~, with no associated Capacity Deficiency~~capacity deficiency~~, the Company shall curtail gas service in accordance with Section C3.24D(3)(b), subject to the following conditions.
  - (a) End Use Customers~~Transportation customers~~ shall have the option of having electronic remote metering installed or of establishing a means acceptable to the Company and the ~~customer~~ End Use Customer of determining daily consumption at the ~~customer's~~ End Use Customer's expense. Negative daily imbalances incurred shall be curtailed pursuant to priorities determined as in Section C3.24E, Base Period. Usage in balance with deliveries (flowing pipeline supplies) on a daily basis is exempt from curtailment under this paragraph.
  - (b) Blanket ~~certificate~~ Certificate Customer~~customers~~ are exempt from curtailment.

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DTE Gas Company  
(Renumber, Capitalize Defined Terms)

Revised Sheet No. C-19.00

(Continued from Sheet No. C-18.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.42 Curtailment of Gas Service During an Emergency (Contd.)**

- (5) If curtailment becomes necessary due to an emergency situation resulting in a Capacity Deficiency~~capacity deficiency~~, the Company shall curtail gas service in accordance with Section C3.24D(3)(b).

Blanket ~~certificate customers~~ Certificate Customers are exempt from curtailment.

**E. Base Period**

- (1) For the purpose of determining the customer's volumes within each curtailment priority category, a twelve month base period shall be established. Such base period shall be fixed for the term of the curtailment. The base period volumes shall consist of the twelve consecutive monthly deliveries ending June of each year. In those instances where the customer has encountered strikes, interruption of gas service or unavoidable operational abnormalities, the Company shall make reasonable adjustments to normalize the customer's requirements. Base period volumes shall be adjusted for equipment added or deleted and new loads.
- (2) In determining monthly deliveries, the Company shall determine the gas used during each month of the period described above for all buildings, parts of buildings, and equipment associated with each customer's gas billing in accordance with the Company's Rules and Regulations. Volumes specified in Curtailment Priorities One through Five shall apply in the aggregate for all equipment of the same end use rather than on a unit of equipment basis.
- (3) The monthly deliveries so determined, with such adjustments as provided above, shall then be used as the monthly requirement specified in the Curtailment Priority Categories. In determining a customer's Curtailment Priority Category, the applicable monthly requirement in the base period shall be used.

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Renumber, Remove Priorities, Capitalized Defined Terms)

Revised Sheet No. C-20.00

(Continued from Sheet No. C-19.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.42 Curtailment of Gas Service During an Emergency (Contd.)**

**F. Curtailment Priority Details Specific to Gas Service During an Emergency**

~~(1) For purposes of curtailment, firm end use sales and transportation customers (whose service is not provided pursuant to a blanket certificate issued by the FERC) will be treated equally in accordance with the curtailment priority categories set forth. Five categories are established with Priority Five being the first category to be curtailed and Priority One being the last. The Company will implement this curtailment plan throughout its system (except for its gathering systems) to the extent necessary and possible, consistent with its practical operation, considering such factors as system capacity and the extent to which curtailment of customers in a specific portion of the Company's system may remedy the emergency. Specifically, if curtailment of gas deliveries to a customer does not provide any relief to DTE Gas, then the Company may continue to provide gas service for the customer.~~

~~**Priority One** Residential gas requirements, commercial gas requirements of 1,250 Mcf or less per the base period month being curtailed, requirements for plant protection, and for services essential for public health and safety.~~

~~**Priority Two** Non-residential customers having commercial gas requirements of 1,250 Mcf to 8,334 Mcf per the base period month being curtailed and industrial gas requirements of 8,334 Mcf or less per the base period month being curtailed.~~

~~**Priority Three** Commercial and industrial gas requirements of 8,334 Mcf to 41,667 Mcf per the base period month being curtailed.~~

~~**Priority Four** Commercial and industrial gas requirements in excess of 41,667 Mcf per the base period month being curtailed.~~

~~**Priority Five** Commercial and industrial customers with gas requirements in excess of 41,667 Mcf per the base period month being curtailed and having installed alternate fuel capability available on short notice (only the alternate fuel load will be curtailed) and all sales of system supply gas to non-system supply customers.~~

~~(2)~~ The gas requirements for district heating systems shall be classified, to the extent practicable, into the same priority categories as the Company's ~~on-system~~ System Supply Customers sales and End Use Customer ~~transportation customers~~ if the operator of the district heating system provides the Company with the information necessary to make such a classification and an affidavit verifying the accuracy of such information. Information regarding such end use profile shall be provided for each priority category in a manner similar to the information regarding the base period volumes of other customers as set forth in paragraph E above.

~~(23)~~ The volumes of gas destined to end users of other local distribution companies (LDC) shall be classified into the same priority categories as the Company's System Supply ~~on-system sales~~ and End Use Customer ~~transportation customers~~ if the LDC provides the Company with the information necessary to make such a classification and an affidavit verifying the accuracy of such information. Such information shall be provided for each priority category in a manner similar to the information regarding the base period volumes of other customers as set forth in paragraph E above. Any volumes for which the LDC fails to provide such information shall be ~~presumed to be in Priority Five~~

Decker:  
Page HJD-72, Lines 9-14;  
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(Continued from Sheet No. C-21.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.24 Curtailment of Gas Service During an Emergency (Contd.)**

**G. Diversion of Customer-Owned Gas During Gas Emergencies**

If the Company determines that its ability to deliver gas is inadequate to support continuous service to its customers on its system and it diverts Customer gas for Company use under an OFO or enforces the curtailment plan established in this Rule, the Company shall give End User ~~end-user~~ ~~transportation customers~~ Customers the option to 1) have their curtailed deliveries injected into storage with the suspension of any penalties and with no other additional charges; or 2) within 90 days, sell to the Company their flowing pipeline supplies that have been curtailed. The price of the purchased gas will be negotiated between the End User Customers ~~transportation customer~~ and the Company but be limited to the higher of a) the customer's reasonable costs associated with using alternate fuels during the period of diversion, b) the actual cost of the customer's diverted gas, or c) the highest city gate price of gas for DTE Gas's End User Customers ~~end-users~~ contained in the publication Gas Daily, delivered into DTE Gas's system during the period of diversion. The Company shall not divert gas from End User Customers ~~transportation customers~~ who do not have title to the gas being transported unless the owner of such gas voluntarily agrees that its gas may be purchased, borrowed or otherwise diverted by the Company pursuant to Option 1 or 2 above. Nothing in these Rules relieves the Company from its obligation, under Act 304, of demonstrating the reasonableness and prudence of its gas purchases.

**H. Rate Adjustments**

A customer shall not be liable for any part of a monthly service charge provided in a Rate Schedule if such customer's consumption under that rate is completely curtailed for the entire billing period. No other rate adjustments will be permitted unless otherwise provided by contract.

**I. Enforcement**

- (1) The Company reserves the right to inspect the customer's equipment, to install special metering, and to immediately physically interrupt gas service for violations of this Rule, as provided by Rule B1, Technical Standards for Gas Service, R 460.2373, Shutoff of Service. Once gas service is terminated, the Company may withhold such service during the period of the curtailment until it is satisfied that the terms and conditions of this Rule will be observed.
- (2) There is nothing in this Rule that shall prevent a customer from challenging before the Commission the continuation of a curtailment or that shall abridge the customer's right to appeal any such determination to the Commission.
- (3) The Company shall, when acting reasonably and prudently in accordance with these Rules, not be liable for any loss, cost, damage, injury, or expense (incidental or consequential damages) that may be sustained by customer by reason of partial or complete curtailment of gas service.

(Continued on Sheet No. C-23.00)

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DTE Gas Company  
(Renumber, Removal of ANR, ML7 point, Add Billing Section)

(Continued from Sheet No. C-22.00)

**C3. CURTAILMENT OF GAS SERVICE (Contd.)**

**C3.42 Curtailment of Gas Service During an Emergency (Contd.)**

**J. Billing**

The Company shall have up to 6 months to assess adjustments to the customer's bill which may include applicable credits or excess charges.

**K. Penalties**

Any gas used by an End Use Customer~~end-use customer~~ in excess of the volumes authorized during the period when a curtailment has been instituted pursuant to this Rule shall be subject to Unauthorized Gas Use Charges. The charge for such Unauthorized Gas Usage shall be \$1.00 per 100 cubic feet plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7;~~ Chicago city-gates; Consumers city-gate; or MichCon city-gate. Unauthorized Gas Use Charges are in addition to those normal charges made under the applicable Rate Schedules, for all gas taken by Customer in excess of the cumulative volume delivered to Company (less Gas-in-Kind) on behalf of Customer. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service. Failure to pay an excess use charge when rendered shall subject the customer to termination of gas service.

**C4. APPLICATION OF RATES**

**C4.1 Service to Which Rates Apply**

The characteristics of and limitations on the service to which rates applicable in the Districts covered by these Rules and Regulations apply are described under the caption "Who May Take Service" in the respective Rate Schedules.

**C4.2 Choice of Rates**

Upon request, investigation will be made and assistance will be given to the customer to determine whether the rate under which the customer ~~he~~ is being billed is the most advantageous. The Company does not guarantee that each customer will be served under the most favorable rate at all times, and will not be responsible for notifying the customer of the most advantageous rate.

After the customer has selected the rate under which he elects to take service, the customer will not be permitted to change from that rate to another rate until at least twelve months have elapsed. Neither will the customer be permitted to evade this Rule by temporarily terminating service. However, the Company may, at its option, waive the provisions of this paragraph where it appears that an earlier change is requested for permanent rather than for temporary or seasonal advantage. The intent of this Rule is to prohibit frequent shifts from rate to rate.

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Page HJD-74, Lines 24-25;  
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(Continued from Sheet No. C-41.00)

**C8. CUSTOMER ATTACHMENT PROGRAM (Contd.)**

**C8.9 Model Assumptions**

**A. Incremental Revenues**

The incremental revenues will be calculated based on current rates and a forecast of the timing and number of Customer attachments as well as Customers' annual consumption levels.

**B. Incremental Costs**

**(1) Carrying Cost Rate**

The Carrying Cost Rate will be a pre-tax weighted rate of long-term debt and common equity. The cost will be equal to and weighted in proportion to those authorized in Company's most recent rate order. Based on DTE Gas's rate order in Case No. ~~UU-21291-20940~~, dated, ~~December 9~~, ~~2023~~, the Carrying Cost Rate is equal to ~~88.31-78~~%.

**(2) Plant in Service**

Plant in Service shall reflect Company's estimated cost to construct distribution mains, Customer service lines, meters and pressure regulators or regulating facilities for the Project. The timing of the facility investment, primarily service lines, will correspond with the projected timing of Customer attachments.

**(3) Carrying Costs**

The Carrying Costs will be the product of the average of beginning and end-of-year net plant, Plant in Service minus accumulated depreciation minus deferred taxes, multiplied by the Carrying Cost Rate, noted in paragraph (1) above.

(Continued on Sheet No. C-43.00)

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DTE Gas Company  
(To Update Discount Rate)

Revised Sheet No. C-43.00

(Continued from Sheet No. C-42.00)

**C8. CUSTOMER ATTACHMENT PROGRAM (Contd.)**

**C8.9 Model Assumptions (Contd.)**

**(4) Depreciation**

Depreciation expense will be the product of Plant in Service multiplied by the appropriate prescribed depreciation rates approved for Company.

**(5) Property Taxes and Other Operating Expenses**

Property Taxes will be the product of Plant in Service multiplied by Company’s average property tax rate. All Other Incremental Operating Expenses will be included as identified. Incremental O&M will, at a minimum, include a proportional cost for monthly meter reading, billing and mailing.

**(6) Discount Rate**

The Discount Rate will be a weighted rate of long-term debt and common equity. The cost will be equal to and weighted in proportion to those authorized in Company’s most recent rate order. Based on DTE Gas’s rate order in Case No. U-212591U-20940, dated 2023 December 9, 2021, the Discount Rate is equal to 7.446.99%.

**C8.10 Customer Attachment Project Areas**

All gas sold in any area specifically listed below is subject to the following Customer Attachment Project (CAP) charges. CAP areas and charges shall be added to or removed from the list from time to time by Company.

<u>CAP No</u>	<u>Charge</u>	<u>Cap Area</u>	<u>County</u>	<u>End</u>
05371	\$19.39	Bay Valley	Acme	11/2/2031
04872	\$40.99	SUB BUTTRICK PRESERVE	Ada	01/19/2032
00966	\$30.03	2134 S Us Highway 23 Greenbush	Alcona	09/18/2024
01136	\$45.53	Sunrise Dr Greenbush	Alcona	12/12/2024
01337	\$16.50	Crescent Rd, Harrisville	Alcona	09/11/2025
01700	\$23.03	155 S Barlow Harrisville	Alcona	12/13/2026
03648	\$64.25	N Lake Ritchie Rd, Fawn	Alcona	08/17/2030
04645	\$26.71	11614 187th Ave	Alcona	10/07/2023
01295	\$38.34	North Shore Road	Alger	08/17/2025
05451	\$16.40	Norlin Way,Au Train Revised	Alger	09/07/2031
05484	\$76.40	N Ridge Rd	Alger	11/18/2031
05995	\$14.76	E9725 OLD INDIAN TOWN RD	Alger	10/27/2032
01045	\$20.53	Lakewood Dr Alpena Mi	Alpena	08/26/2024
01047	\$42.48	Bayview Drive Alpena Michigan	Alpena	12/08/2024

(Continued on Sheet No. C-44.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(2025 IRM Rate Update)

Revised Sheet No. D-2.00

**D2. SURCHARGES AND INFRASTRUCTURE RECOVERY MECHANISM**

**D2.1 Surcharges**

<b>Rate Schedule No.</b>	<b>U-21206 Energy Waste Reduction Surcharge</b>	<b>U-20940U-21291 IRM Surcharge</b>
	<b>\$/Ccf</b>	<b>\$/Customer</b>
A Residential	\$0.03184	\$2,190.80
2A Multifamily Dwelling Class I		\$4,035.07
2A Multifamily Dwelling Class II	\$0.05498	\$4,035.07
GS-1 Non-Residential General Service	\$0.05498	\$4,063.77
GS-2 Large Volume		\$4,063.77
<100,000 Mcf	\$0.05498	
>100,000 Mcf	\$0.00470	
S School	\$0.05498	\$133,585.54
ST Small Volume Transportation	\$0.00470	\$507,241.89
LT Large Volume Transportation	\$0.00470	\$2,466,629.18
XLT Extra Large Volume Transportation	\$0.00470	\$4,011,305.34
XXLT Double Extra Large Volume Transportation	\$0.00470	\$3,502,512.43
C&I/EUT Exploratory Program	\$0.00243	

In addition to the above surcharges/ (credits), Rate Schedules A, 2A, GS-1, GS-2, and S are subject to Rule C7, Gas Cost Recovery, and may be subject to Rule C8, Customer Attachment Program.

The IRM is effective beginning with the first cycle of the January ~~2022~~-2025 billing month and will change on a bill cycle basis thereafter each January based on the tables on Sheet No. D-2.01.

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update IRM Surcharges)

Revised Sheet No. D-2.01

**D2. SURCHARGES AND INFRASTRUCTURE RECOVERY MECHANISM (Contd.)**

**D2.2 Infrastructure Recovery Mechanism (IRM)**

The IRM, approved in Case No. U-~~2094021291~~, is implemented on a bill cycle basis. The IRM is effective beginning with the first cycle of the January ~~2022-2025~~ billing month and will change on a bill cycle basis thereafter each January based on the tables on Sheet No. D-2.01. The IRM is subject to an annual reconciliation of spend process and rates below any applicable cap may change based on the outcome of this process. Once implemented, the rate will be applied on the same basis as the monthly Customer Charge. The IRM will not expire until a final rate order superseding the IRM is issued in a general rate proceeding, however the rate may be lowered as a result of the annual reconciliation.

**IRM for Sales Rate Schedule Customers:**

\$ per Month

	<b>A</b>	<b>2A I/2A II</b>	<b>GS-1/ GS-2</b>	<b>S</b>
<u>2025</u>	<u>\$0.80</u>	<u>\$5.07</u>	<u>\$3.77</u>	<u>\$57.54</u>
<u>2026</u>	<u>\$2.74</u>	<u>\$17.31</u>	<u>\$12.87</u>	<u>\$196.54</u>
<u>2027</u>	<u>\$4.75</u>	<u>\$29.10</u>	<u>\$21.67</u>	<u>\$328.60</u>
<u>2028</u>	<u>\$6.60</u>	<u>\$39.99</u>	<u>\$29.76</u>	<u>\$453.30</u>
<u>2029 beyond</u>	<u>\$8.25</u>	<u>\$49.79</u>	<u>\$36.97</u>	<u>\$569.98</u>
<del>2022</del>	<del>\$ 0.63</del>	<del>\$ 4.06</del>	<del>\$ 2.91</del>	<del>\$ 38.60</del>
<del>2023</del>	<del>\$ 2.19</del>	<del>\$ 14.03</del>	<del>\$ 10.06</del>	<del>\$ 133.58</del>
<del>2024</del>	<del>\$ 3.78</del>	<del>\$ 23.74</del>	<del>\$ 17.05</del>	<del>\$ 225.28</del>
<del>2025</del>	<del>\$ 5.36</del>	<del>\$ 33.14</del>	<del>\$ 23.83</del>	<del>\$ 313.73</del>
<del>2026 beyond</del>	<del>\$ 6.92</del>	<del>\$ 42.26</del>	<del>\$ 30.42</del>	<del>\$ 399.21</del>

**IRM for Transportation Rate Schedule Customers:**

\$ per Month

	<b>ST</b>	<b>LT</b>	<b>XLT</b>	<b>XXLT</b>
<u>2025</u>	<u>\$189.18</u>	<u>\$921.04</u>	<u>\$5,349.26</u>	<u>\$2,443.58</u>
<u>2026</u>	<u>\$646.23</u>	<u>\$3,146.48</u>	<u>\$18,274.62</u>	<u>\$7,479.91</u>
<u>2027</u>	<u>\$1,079.95</u>	<u>\$5,257.01</u>	<u>\$20,000.00</u>	<u>\$10,803.81</u>
<u>2028</u>	<u>\$1,492.50</u>	<u>\$7,279.44</u>	<u>\$20,000.00</u>	<u>\$13,762.59</u>
<u>2029 beyond</u>	<u>\$1,883.00</u>	<u>\$9,100.00</u>	<u>\$20,000.00</u>	<u>\$16,253.33</u>
<del>2022</del>	<del>\$ 146.55</del>	<del>\$ 712.40</del>	<del>\$ 4,046.38</del>	<del>\$ 998.54</del>
<del>2023</del>	<del>\$ 507.24</del>	<del>\$2,466.62</del>	<del>\$ 14,011.30</del>	<del>\$ 3,502.51</del>
<del>2024</del>	<del>\$ 855.24</del>	<del>\$4,158.81</del>	<del>\$ 17,250.00</del>	<del>\$ 5,923.43</del>
<del>2025</del>	<del>\$ 1,190.80</del>	<del>\$5,790.49</del>	<del>\$ 17,250.00</del>	<del>\$ 8,263.78</del>
<del>2026 beyond</del>	<del>\$ 1,515.00</del>	<del>\$6,780.00</del>	<del>\$ 17,250.00</del>	<del>\$10,531.34</del>

Krynski:  
Page TJK-25, Lines 4-24;  
Page TJK-26, Lines 1-7

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-9.00

**D5. RESIDENTIAL SERVICE RATE A**

**Character of Service**

**Who May Take Service**

Subject to limitations and restrictions contained in orders of the Commission in effect from time to time and in the Rules and Regulations of the Company, service is available under this Rate Schedule to any residential customer for residential service as hereinafter defined. As used in this Rate Schedule “residential service” means service to any residential customer for any purpose, including space heating, by individual meter in a single family dwelling or building; or in an individual flat or apartment, or to not over four households served by a single meter (one customer) in a multifamily dwelling, or portion thereof. Residential premises also used regularly for professional or business purposes (such as doctor’s office in a home, or where a small store is integral with the living space) are considered as residential where the residential use is half or more of the total gas volume; otherwise, these will be provided service under General Service Rate GS-1.

For purposes of rate application “residential usage” shall be usage consumed within an individual household, or reasonably appurtenant and related to, and normally with such a household, for such applications as space conditioning, cooking, water heating, refrigeration, clothes drying, incineration, lighting and other similar household applications.

**Hours of Service**

Twenty-four hours per day.

**Rate**

Customer Charge:	<del>\$13.50</del> <u>17.60</u> per Meter per month, plus
Distribution Charge:	<del>\$0.38859</del> <u>49395</u> per 100 cubic feet
Gas Cost Recovery Charge:	As set forth on Sheet No. D-3.00

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Page TJK-25 Lines 4-15

(Continued on Sheet No. D-10.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-10.00

(Continued from Sheet No. D-9.00)

**D5. RESIDENTIAL SERVICE RATE A (Contd.)**

**Low Income Energy Assistance Programs**

When service is supplied to a customer taking service under Rate A at their primary residence, where the total household income does not exceed 150% of the Federal poverty level, either the Residential Income Assistance Service Provision credit or the Low Income Assistance Credit shall be applied during all billing months. These credits will be distributed at the Company's discretion.

To qualify for the Residential income Assistance Service Provision credit or Income Assistance Service Provision credit, a customer must verify they meet at least one of the following requirements in the past 12 months:

1. Receipt of:
  - a. Home Heating Credit
  - b. State Emergency Relief;
  - c. Michigan Energy Assistance Program
  - d. Medicaid or
  - e. Supplementary Nutrition Assistance Program
2. If a low income customer cannot verify they meet any of the above requirements, a self-attestation form must be completed and provided to the utility.

If any Low Income Energy Assistance program results in a credit balance, that credit balance may only be applied to future billed amounts related to utility service provided to that customer under Rate A. In no case will a refund of such a balance be issued.

**Residential Income Assistance Service Provision**

The monthly credit for the residential Income Assistance Service Provision shall be applied as follows: Income Assistance Credit: \$(~~13.50~~17.60) per meter per month consistent with and equal to the Customer Charge.

**Low Income Assistance Credit Pilot**

This credit is available to up to 33,000 qualifying customers taking service under Rate A.

In addition to the income verification methods listed above, a customer may qualify for the Low Income Assistance Credit Pilot with proof of Enrollment in the Company's affordable payment plan as sanctioned under the Michigan Energy Assistance Program (MEAP) or having received one-time MEAP assistance in the past 12 months.

The monthly credit for the residential Low Income Assistance Credit shall be applied as follows: Income Assistance Credit: \$(~~30.00~~40.00) per meter per month, consistent with the Customer Charge.

**General Terms and Surcharges**

This Rate is subject to all General Terms and Conditions shown on Sheet No. D-1.00 and Surcharges shown on Sheet No. D-2.00.

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Sparks:  
Page JES-14, Lines 3-16  
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Page TJK-25 Lines 4-15

(Continued on Sheet No. D-11.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-11.00

(Continued from Sheet No. D-10.00)

**D5. RESIDENTIAL SERVICE RATE A (Contd.)**

**Low Income Assistance Credit Pilot (contd.)**

The monthly credit for the residential Low Income Assistance Credit shall be applied as follows: Income Assistance Credit: \$(~~30.00~~40.00) per meter per month

**General Terms and Surcharges**

This Rate is subject to all General Terms and Conditions shown on Sheet No. D-1.00 and Surcharges shown on Sheet No. D-2.00.

**Late Payment Charge and Due Date**

A late payment charge of 2% of the bill, net of taxes, not compounded, may be added to any bill which is delinquent. The due date shall be 21 days following the date the bill was sent. A late payment charge will not be assessed against Customers participating in the Winter Protection Plan.

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Page TJK-25 Lines 4-15

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-14.00

\_(Continued from Sheet No. D-13.00)

**D6. MULTIFAMILY DWELLING SERVICE RATE 2A (Contd.)**

**Rate**

Customer Charge (One of the following charges per Customer per month will be applied).

Meter Class I:	<del>\$13.50</del> <u>17.60</u> per Meter per month
Meter Class II:	<del>\$40.00</del> <u>50.00</u> per Meter per month
Distribution Charge:	<del>\$0.38859</del> <u>49395</u> per 100 cubic feet
Gas Cost Recovery Charge:	As set forth on Sheet No. D-3.00

**General Terms and Surcharges**

This Rate is subject to all General Terms and Conditions shown on Sheet No. D-1.00 and Surcharges shown on Sheet No. D-2.00.

**Late Payment Charge and Due Date**

A late payment charge of 2% of the bill, net of taxes, not compounded, may be added to any bill which is delinquent. The due date shall be 21 days following the date the bill was sent.

**Gas Cost Recovery**

This rate is subject to adjustments for fluctuations in the cost of gas as stated in Rule C7 of the applicable Rules and Regulations of Company.

**Customer Contract**

Applications for Gas Service shall be in writing upon application forms to be supplied by Company. Existing Customers who wish to connect space heating equipment must make written application for such service on forms to be provided by Company.

**Meter Classification**

For application of the Monthly Customer Charge in this Rate, Company's gas meters are designated in one of the following classifications:

- Meter Class I: Meters with a rating of 400 Cubic Feet per Hour (Cfh) or less:
- Meter Class II: Meters with a rating in excess of 400 Cubic Feet per Hour (Cfu)

\_(Continued on Sheet No. D-15.00)

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Page TJK-25 Lines 4-15

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-17.00

**D7. GENERAL SERVICE RATE GS-1 AND GS-2**

**Availability**

Subject to limitations and restrictions contained in orders of the Commission in effect from time to time and in the Rules and Regulations of Company, service is available under this Rate Schedule to any non-residential Customer, for any purpose.

**Rates and Charges**

<u>Service Category</u>	<u>Customer Charge per Month</u>	<u>Distribution Charge</u>
GS-1	<del>\$40.00</del> <u>50.00</u> per meter	<del>\$0.38069</del> <u>47970</u> per 100 cubic feet
GS-2	<del>\$750.00</del> <u>925.00</u> per Customer	<del>\$0.31984</del> <u>40470</u> per 100 cubic feet

Customer Charge for GS-2 is “per meter or Contiguous Facility.”

Optional Remote Meter Charge      \$25.00 per Meter per Month

Customers may choose the Service Category under which they take service, consistent with the provisions of Rules C4.1, Classes of Service, C4.2, Choice of Rates and C4.3, Gas Not to be Submetered for Resale. When a Customer is selecting its initial Service Category, Company must advise them that the economic break even point between GS-1 and GS-2 is approximately 14,000 Mcf per year. After the initial selection is made, then it is Customer’s responsibility to determine when it is appropriate to switch Service Categories, as permitted by Rule C4.2, Choice of Rates.

**Gas Cost Recovery Charge**

The gas cost recovery factors are shown on Sheet No. D-3.00. The rate is subject to adjustments for fluctuations in the cost of gas as stated in Rule C7 of the applicable Rules and Regulations of Company.

**General Terms and Surcharges**

This Rate is subject to all General Terms and Conditions shown on Sheet No. D-1.00 and Surcharges shown on Sheet No. D-2.00.

**Late Payment Charge and Due Date**

A late payment charge of 2% of the bill, net of taxes, not compounded, may be added to any bill which is not paid on or before 21 calendar days from the date of mailing.

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Regulatory Affairs

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Page TJK-25 Lines 8-9

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. D-19.00

\_(Continued from Sheet No. D-18.00)

## D8. SCHOOL SERVICE RATE S

### Character of Service

#### Who May Take Service

Subject to limitations and restrictions contained in orders of the Commission in effect from time to time and in the Rules and Regulations of Company, service is available under this Rate Schedule to each individual school which shall make application for service and which shall by contract in writing agree that the gas supplied hereunder shall, during the term of such contract, be used only in the following buildings:

- A. Buildings on property exempt from taxation under the laws of the State of Michigan which are located on the same site and used for school purposes to impart instruction to children, grades kindergarten through twelve, when provided by any public, private, denominational or parochial school, including all adjacent and appurtenant buildings owned by the same Customer which are located on the same site and which constitute an integral part of such school facilities.
- B. Buildings on property exempt from taxation under the laws of the State of Michigan which are located on the same campus and used to impart instruction provided by colleges and universities when being operated under the laws of said State, including all adjacent and appurtenant buildings owned by the same Customer which are located on the same campus and which constitute an integral part of such college or university facilities.

#### Rate

Customer Charge: ~~\$225.00~~ 275.00 per Customer per month, plus  
Distribution Charge: ~~\$0.277363~~ 2646 per 100 cubic feet  
Gas Cost Recovery Charge: As set forth on Sheet No. D-3.00

Customer Charge is “per meter or Contiguous Facility.”

Optional Remote Meter Charge \$25.00 per Meter per Month

### General Terms and Surcharges

This Rate is subject to all General Terms and Conditions shown on Sheet No. D-1.00 and Surcharges shown on Sheet No. D-2.00.

### Late Payment Charge and Due Date

A late payment charge of 2% of the bill, net of taxes, not compounded, may be added to any bill which is not paid on or before 21 calendar days from the date of mailing.

\_(Continued on Sheet No. D-20.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Clarify Exception to Load Balancing Rules)

Revised Sheet No. E-5.00

(Continued from Sheet No. E-4.00)

Applicable for End-Use Transportation Service

## E2. RECORDS, ACCOUNTING AND CONTROL

### E2.1 Transmittal of Notices, Bills and Payments

All notices, bills and payments required or permitted to be given in connection with service shall be transmitted as specified in Customer’s Contract shall be valid and sufficient if delivered in person, dispatched by first class mail, overnight mail, telex, facsimile or transmitted electronically.

### E2.2 Nominations, Accounting and Control

- A. Customer may designate a third party as agent for purposes of Nominating, and for giving and receiving notices related to Nominations. Customer shall provide Company with written notice of such designation. Any such designation shall be effective starting the Month following the receipt of the notice and will remain in effect until revoked in writing by Customer.
- B. All Nominations shall be submitted through Company’s electronic gas nomination system. Specific information to be included in the Nomination is posted on Company’s electronic gas nomination system.
- C. Customer, or its designated agent, shall notify Company’s Gas Nominations Department of the daily quantity of gas that Customer is Nominating for delivery to Company on behalf of Customer. Such Nominations shall be submitted by the North American Energy Standards Board (NAESB) Standard Timely Deadline Eastern Clock Time prior to the effective Gas Day. Nominations made within a NAESB Standard Intraday Cycle shall be accepted at the sole discretion of Company. Customer, or its designated agent, shall provide Company with a Nomination for each Gas Day. (If a single nomination is received it shall be assumed to apply for each subsequent day of the month unless otherwise stated).
- D. If Customer fails to provide a Nomination for any Month, the daily Nomination is assumed to be zero.
- E. For Transportation Service Rate Schedules, Customer or Customer’s authorized representative may transfer a portion of their load balancing storage account balance to another End-Use Gas Transportation Customer(s) (“Transferee Customer(s)”) served by the Company under the following conditions: 1) Gas transferred to the Transferee Customer’s load balancing storage account shall be considered as delivered to the Transferee Customer’s Receipt Point under their Gas Transportation Agreement or Contract with the Company; 2) such transactions are prospective and may not be used to avoid penalties once charged; 3) load balancing storage transfer notifications must be received by the Company ten (10) business days prior to the first day of the month of the transfer; and 4) load balancing storage transfers will not be allowed during October and November with the exception of Customers withdrawing their gas retained by Company following the termination of their EUT Contract.

### E2.3 Customer Access to Data

The Company will make Customer information available to Customer, or its designated agent, in accordance with the applicable provisions of Section C12 Customer Protections, Customer Access to Data and Section E11(F), Transportation Standards of Conduct, of its tariff. Customer information will be available to Customer, or its designated agent, through the Company’s electronic system within 10 days of such information becoming available to the Company. Customer information regarding gas delivered at the Delivery Point(s) by Company to Customer will be in compliance with Section E4.4B of Company’s

(Continued on Sheet No. E-6.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update for changes in operation of OFO)

Revised Sheet No. E-8.00

(Continued from Sheet No. E-7.00)

Applicable for End-Use Transportation Service

#### E4. SERVICE REQUIREMENTS (Contd.)

##### E4.4 Measurement (Contd.)

- B. All quantities of gas delivered at the Delivery Point(s) by Company to Customer, or for the account of Customer, shall be measured at the Delivery Point(s) by Company, or its designee, in accordance and in compliance with the measurement specifications contained in the Gas Measurement Report #3, Gas Measurement Report #7, Gas Measurement Report #8 and Gas Measurement Report #9.

##### E4.5 Notice of Operational Flow Order (OFO)

When there is adequate time during constrained operational conditions or an emergency situation, and if applicable, Company will implement an Operational Flow Order, or OFO. Unless specified otherwise in the Contract between the customer and Company, an OFO invokes the requirement that customers shall deliver at least the OFODQ Min or no more than the OFODQ Max as specified by the Company's OFO notice to customer.

- A. DTE shall deliver any OFO notices to the person the Company is in regular communication with about Customer's day-to-day operations as it pertains to Company. If said contact is no longer in that position or is not available, it is the Customer's responsibility to update DTE with current and accurate contacts. Company shall be deemed to have provided valid notice of the OFO if notice is provided to any person at Customer with whom Company has regular communications about Customer's day-to-day operations as it pertains to DTE.
- B. When Company has provided customer notification of an OFODQ Max, any nomination made by customer that is greater than customer's OFODQ Max shall be rejected by the Company.
- ~~CB.~~ When Company has provided customer notification of an OFODQ Min requirement, customer shall be deemed non-compliant and shall be charged for Unauthorized Gas Usage set forth in Sections E7 and E14, on any Gas Day customer has not nominated and delivered to the Receipt Point(s) quantities of natural gas equal to or greater than customer's required OFODQ Min. Should a customer determine the quantity nominated and delivered was equal to or greater than the customers' usage on the gas day(s), although nominated and delivered gas did not meet OFODQ min requirements, such a customer can seek an Unauthorized Gas Usage penalty waiver by providing Company with proof within 30 days of receiving the bill containing the Unauthorized Gas Use charges. The onus is entirely on the customer to identify and contact Company should they be a candidate for such a waiver.
- D. Should a customer assert that OFODQ Min compliance caused the customer to have Excess Storage at month-end, customer may request DTE to waive any related Excess Storage Charges for the month the OFO occurred and must provide documentation supporting their claim. The onus lies with the customer to notify DTE and provide evidence within 30 days of receiving the bill containing the Excess Storage charges. The Company reserves the right to waive such an Excess Storage Charge for the following month at its sole discretion.

The payment of Unauthorized Gas Usage Charge does not create the right to exceed the levels established by an OFO.

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates, Provide for exception to 12 month requirement)

Revised Sheet No. E-14.00

\_(Continued from Sheet No. E-13.00)

Applicable for End-Use Transportation Service

**E14. TRANSPORTATION SERVICE RATES ST, LT, XLT, XXL**

**Availability**

Subject to any restrictions, service under this Rate Schedule is available to any Customer who could otherwise purchase gas under any other Company Rate Schedule.

Customer that selects transportation service under this Rate Schedule must remain on this Rate Schedule for at least 12 Months before Customer is eligible for a non-Transportation Service Rate and shall continue on this rate Year to Year after the initial term of the Transportation Contract has expired unless otherwise agreed upon between Company and Customer. Customer eligible to request a return to sales rates must provide a minimum of 12 Months written notice to Company of its election to return to sales rates, unless otherwise agreed upon between company and customer.

Company reserves the right to deny a return to sales rates subject to Company’s Controlled Service Rule C2.

Under this Rate Schedule, Company will transport gas for Customer from the Receipt Point(s) to the Delivery Point(s).

**Rates and Charges**

	<u>Service Category</u>	
	<u>ST</u>	<u>LT</u>
Monthly Charges		
Customer Charge	<del>\$2,780</del> <u>3,300</u> -Per Customer	<del>\$6,780</del> <u>9,100</u> Per Customer
	Customer Charge is “per meter or Contiguous Facility.”	
Optional Remote Meter Charge	\$25.00 Per Meter	\$25.00 Per Meter
Transportation Rates		
Cost Based Rate	<del>\$0.14906</del> <u>19503</u> Per Ccf	<del>\$0.09427</del> <u>11663</u> Per Ccf
Optional Rates:		
Maximum Rate	<del>\$0.27512</del> <u>36706</u> Per Ccf	<del>\$0.16554</del> <u>21026</u> Per Ccf
Minimum Rate	\$0.02300 Per Ccf	\$0.02300 Per Ccf

\_(Continued on Sheet No. E-15.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update Rates)

Revised Sheet No. E-15.00

(Continued from Sheet No. E-14.00)

Applicable for End-Use Transportation Service

**E14. TRANSPORTATION SERVICE RATES ST, LT, XLT, XXLT (Contd.)**

**Rates and Charges**

	<u>Service Category</u>	
	<u>XLT</u>	<u>XXLT</u>
Monthly Charges		
Customer Charge	<del>\$17,250</del> <u>20,000</u> Per Customer	<del>\$169,835</del> <u>230,000</u> Per
Customer		
	Customer Charge is “per meter or Contiguous Facility.”	
Remote Meter Charge	\$100.00 Per Meter	\$100.00 Per Meter
Transportation Rates		
Cost Based Rate	<del>\$0.07060</del> <u>0.9039</u> Per Ccf	<del>\$0.01933</del> <u>0.1939</u> Per Ccf
Optional Rates:		
Maximum Rate	<del>\$0.12321</del> <u>1.6278</u> Per Ccf	<del>\$0.12321</del> <u>1.6278</u> Per Ccf
Minimum Rate	\$0.01800 Per Ccf	\$0.00500 Per Ccf

**Annual Contract Quantity or ACQ**

ACQ means an annual quantity of natural gas specified in the Contract between Customer and Company, that can be delivered to Company and is based on Customer’s average 12 Month usage (determined from the last 36 Months of data), plus adjustments, approved at Company’s sole discretion, for known or expected changes or special operating conditions (including Standby Service per Section C4.5). Company will utilize their best efforts to ensure that Customer’s ACQ is reflective of Customer’s annual consumption and allow Customer all reasonable opportunities to minimize the risk of Unauthorized Gas Usage Charges.

**Maximum Daily Quantity or MDQ**

MDQ means a daily quantity of natural gas specified in the Contract between Customer and Company, that can be delivered to Company and is based on Customer’s highest historical Month usage (determined from the last 36 Months of data) divided by the number of days during that Month and multiplied by 110%, plus adjustments, approved at Company’s sole discretion, for known or expected changes or special operating conditions (including Standby Service per Section C4.5). Provided, however, during September, October, and November, Customer’s MDQ will be based on the daily average of Customer’s September, October, and November, usage from the previous three years, plus 1.43% of Customer’s ACQ divided by 30 days. The MDQ may be calculated and changed independently from the ACQ. Company and Customer may agree to use a different MDQ as part of the negotiations for an optional discount from the cost based rates set forth in the tariff. Company will utilize their best efforts to ensure that Customer’s MDQ is reflective of Customer’s maximum daily consumption and allow Customer all reasonable opportunities to minimize the risk of Unauthorized Gas Usage Charges.

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Senior Vice President  
Regulatory Affairs

Decker:  
Page HJD-69, Lines 5-24;  
Page HJD-70, Lines 1-24  
Krysinski  
Page TJK-26, Lines 14-24

(Continued on Sheet No. E-16.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Add Unauthorized Usage Changes; Remove ANR, ML7 Point)

Revised Sheet No. E-17.01

Applicable for End-Use Transportation Service

E14. TRANSPORTATION SERVICE RATES ST, LT, XLT, XXL (Contd.)

Unauthorized Gas Usage (Contd.)

- A. If on any Gas Day the quantity of gas in customer's Load Balancing Storage is less than zero, then the quantity or imbalance of gas that is less than zero may be treated as unauthorized gas usage and may be charged an Unauthorized Gas Usage Charge.
- B. If customer is deemed non-compliant on any Gas Day during an OFO per Section E4.5.B, the difference between the required OFODQ Min specified for the customer and the actual quantities nominated and delivered by the customer to the Company will be treated as unauthorized gas usage and shall be charged an Unauthorized Gas Usage Charge (unless specified otherwise in the Contract between the customer and Company).

A Customer subject to Unauthorized Gas Usage Charges as defined under the transportation service rates shall be subject to shut off of service as provided in Sections C1.5 and E4.3 of the Rate Book.

Unauthorized Gas Usage Charge

If Customer uses Company's system supply, then Customer shall pay Unauthorized Gas Use Charges. The charge for such Unauthorized Gas Usage shall be \$1.00 per 100 cubic feet plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate. Unauthorized Gas Use Charges are in addition to those normal charges made under the applicable Rate Schedules, for all gas taken by Customer in excess of the cumulative volume delivered to Company (less Gas-in-Kind) on behalf of Customer. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

Any Unauthorized Gas Usage Charges and quantities relating to 1) non-compliance with a Notice of OFO or, 2) if Customer's Load Balancing Storage quantity on any Gas Day is less than zero during a Month, shall be taken into account when calculating total deliveries, Customer's unauthorized use of Company's system supply, and Unauthorized Gas Charges for the month (double counting of penalties shall not be allowed during a Month).

At the Company's sole discretion, Unauthorized Gas Use Charges may be waived if Customer experienced extenuating circumstance(s) or unusual operating condition(s) resulting in Unauthorized Gas Use Charge(s) and meets all the following criteria:

- 1. Customer takes corrective action promptly when Unauthorized Gas Usage is identified;
- 2. Company determines the Unauthorized Gas Use did not cause undue strain on the Company's system;
- 3. There is no evidence that Customer, its Supplier, or a third party may have financially benefitted from the Unauthorized gas use; and
- 4. Customer has not had Unauthorized charges waived in the previous 12 billing months

In the event Customer qualifies for such a waiver and Unauthorized Gas Use Charges are waived; the Customer is responsible for the cost of Unauthorized Gas Use which shall be equal to:

- 1. the higher of
  - a. the GCR factor in effect for the billing month the Unauthorized Gas Use occurred or
  - b. the Company's weighted average cost of gas purchased for the calendar month the unauthorized Gas Usage occurred
- 2. plus \$0.10 per 100 cubic feet.

(Continued on Sheet No. E-18.00)

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Page HJD-77, Lines 1-5  
Krysinski:  
Page TJK-26, Lines 14-24  
Page TJK-27, Lines 1-2

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove requirements; Add reference)

Revised Sheet No. E-26.00

(Continued from Sheet No. E-25.00)

Applicable for Off-System Storage and Transportation Service

## E17. GAS QUALITY

### E17.1 Quality

A. The gas delivered to Company shall meet the ~~following~~ requirements in Section E3:

- ~~(1) Gas shall not contain more than 0.0005 percent (5 ppm) oxygen by volume;~~
- ~~(2) Gas shall be commercially free from objectionable odors, solid or liquid matter, bacteria, dust, gum or gum forming constituents which might interfere with its merchantability or cause injury to or interference with proper operation of the lines, regulators, meters or other appliances through which it flows;~~
- ~~(3) Gas shall not contain more than 0.25 grain of hydrogen sulfide nor more than 0.5 grain of mercaptan sulfur per 100 cubic feet;~~
- ~~(4) Gas shall not contain more than 5.0 grains of total sulfur (including hydrogen sulfide and mercaptan sulfur) per 100 cubic feet;~~
- ~~(5) Gas shall not at any time have a carbon dioxide content in excess of two percent by volume;~~
- ~~(6) Gas shall not contain an amount of moisture that at any time exceeds five pounds per million cubic feet;~~
- ~~(7) Gas shall be fully interchangeable in accordance with the provisions of AGA Research Bulletin No. 36 and any subsequent modifications and amendments thereof;~~
- ~~(8) The temperature of the gas shall not exceed 100° F;~~
- ~~(9) The hydrocarbon dew point of the gas shall not exceed 0° F at 500 pounds per square inch.~~

Decker:  
Page HJD-77, Lines 15-22

Krynski  
Page TJK-27, Lines 10-18

(Continued on Sheet No. E-27.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update rate and remove ANR-ML7 price reporting location)

Revised Sheet No. E-35.00

(Continued from Sheet No. E-34.00)

Applicable for Off-System Storage and Transportation Service

**E25. TRANSPORTATION OFF-SYSTEM (FIRM) SERVICE RATE TOS-F (Contd.)**

**Imbalance**

Company and Customer shall work to keep the gas flow in balance at all times. If at any time, the volumes of gas received by Company at the Receipt Point(s) are greater or lesser than the gas delivered at the Delivery Point(s), Company may refuse, increase or decrease deliveries to correct the imbalances. If, upon termination of a Contract, Customer has not delivered to Company quantities of gas that are equal to those Customer has taken at the Delivery Point(s), Customer must deliver the deficient volumes to Company, within 60 days of the termination of Contract, at a mutually agreeable rate of delivery. If Customer fails to correct the imbalance within the 60 day period, then Customer shall pay an Unauthorized Gas Usage Charge to Company. The charge for such Unauthorized Gas Usage shall be \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

**Gas in Kind**

Company shall retain 1.00% of all gas received at the Receipt Point(s) to compensate it for the allowance for company-use and lost-and-unaccounted-for gas on Company's system. This volume shall not be included in the quantity available for delivery to Customer. In no event will Customer pay Gas-in-Kind more than once on the same volumes.

**Rates**

- A. For contracts less than 365 days, a rate as mutually agreed to by Customer and Company and set forth in Contract, consisting of a demand portion and/or a commodity portion.
- B. For contracts equal to or exceeding 365 days, a rate not to exceed ~~\$0.42335410~~ per MMBtu, consisting of a demand portion and/or a commodity portion shall be mutually agreed to by Customer and Company and set forth in Contract.

**Late Payment Charge and Due Date**

A late payment charge of 2% shall be applied to the unpaid balance outstanding if the bill is not paid in full on or before the date on which the bill is due. The due date of Customer's bill shall be 21 days from the date bill was sent.

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Senior Vice President  
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Page HJD-73, Lines 21-25;  
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Krynski  
Page TJK-23, Lines 13-16  
Page TJK-27, Lines 1-8

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. E-35.01

(Continued from Sheet No. E-35.00)

Applicable for Off-System Storage and Transportation Service

E25. TRANSPORTATION OFF-SYSTEM (FIRM) SERVICE RATE TOS-F (Contd.)

Penalty Charges:

Company is authorized to charge transportation customers Unauthorized Gas Usage Charge if Customer takes gas at one or more Delivery Points in excess of Customer's MDQ and/or ACQ without Company's prior consent. The charge for such Unauthorized Gas Usage shall be \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate for all gas taken by Customer in excess of MDQ and/or ACQ (less Gas-in-Kind). In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

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Krysinski  
Page TJK-23, Lines 13-16  
Page TJK-27, Lines 10-19

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Update rate and remove ANR-ML7 price reporting location)

Revised Sheet No. E-37.00

(Continued from Sheet No. E-36.00)

Applicable for Off-System Storage and Transportation Service

**E26. TRANSPORTATION OFF-SYSTEM (INTERRUPTIBLE) SERVICE RATE TOS-I (Contd.)**

**Imbalance**

Company and Customer shall work to keep the gas flow in balance at all times. If at any time, the volumes of gas received by Company at the Receipt Point(s) are greater or lesser than the gas delivered at the Delivery Point(s), Company may refuse, increase or decrease deliveries to correct the imbalances. If, upon termination of a Contract, Customer has not delivered to Company quantities of gas that are equal to those Customer has taken at the Delivery Point(s), Customer must deliver the deficient volumes to Company, within 60 days of the termination of Contract, at a mutually agreeable rate of delivery. If Customer fails to correct the imbalance within the 60 day period, then Customer shall pay an Unauthorized Gas Usage charge to Company. The charge for such Unauthorized Gas Usage shall be \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate for all gas taken by Customer in excess of the cumulative volume delivered to Company (less Gas-in-Kind) on behalf of Customer. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

**Gas in Kind**

Company shall retain 1.00% of all gas received at the Receipt Point(s) to compensate it for the allowance for company-use and lost-and-unaccounted-for gas on Company's system. This volume shall not be included in the quantity available for delivery to Customer. In no event will Customer pay Gas-in-Kind more than once on the same volumes.

**Rates**

- A. For contracts less than 365 days, a rate as mutually agreed to by Customer and Company and set forth in Contract, consisting of a demand portion and/or a commodity portion.
- B. For contracts equal to or exceeding 365 days, a rate not to exceed \$0.42335410 per MMBtu, consisting of a demand portion and/or a commodity portion shall be mutually agreed to by Customer and Company and set forth in Contract.

**Late Payment Charge and Due Date**

A late payment charge of 2% shall be applied to the unpaid balance outstanding if the bill is not paid in full on or before the date on which the bill is due. The due date of Customer's bill shall be 21 days from the date the bill was sent.

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Krynski  
Page TJK-23, Lines 13-16  
Page TJK-27, Lines 10-19

(Continued on Sheet No. E-37.01)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. E-37.01

(Continued from Sheet No. E-37.00)

Applicable for Off-System Storage and Transportation Service

E26. TRANSPORTATION OFF-SYSTEM (INTERRUPTIBLE) SERVICE RATE TOS-I (Contd.)

Penalty Charges:

Company is authorized to charge Transportation customers Unauthorized Gas Usage Charge if Customer takes gas at one or more Delivery Points in excess of Customer's MDQ and/or ACQ without Company's prior consent. The charge for such Unauthorized Gas Usage shall be \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate for all gas taken by Customer in excess of MDQ and/or ACQ (less Gas-in-Kind). In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

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Regulatory Affairs

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Page TJK-27, Lines 1-8

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. E-39.00

(Continued from Sheet No. E-37.01)

Applicable for Off-System Storage and Transportation Service

**E27. CONTRACT STORAGE (FIRM) SERVICE RATE CS-F (Contd.)**

**Penalty Charges**

Company is authorized to charge Storage Customers for Unauthorized Gas Use for any portion of Customer's injections into or withdrawals from storage that exceed the MDIQ, MDWQ, and/or MSQ set forth in the Customer's Storage Contract that is made by the Customer without Company's prior consent. Such a charge shall not apply to any gas tendered as Gas-in-Kind. In the event Customer withdraws gas from storage that is not in Customer's storage account prior to such withdrawal, Company is authorized to invoice Customer \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate for such gas. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

Customer shall request the withdrawal of all its gas in storage for delivery to the Delivery Point(s) on or before the last Gas Day on the term of the Contract. If, upon termination of the Contract, Customer has not requested the withdrawal of all its gas in storage, then Customer's remaining volumes shall be deemed sold to Company at a rate of the MichCon City Gate Index as published in Gas Daily less \$0.50 per MMBtu. Payment for the volumes left in storage shall appear as a credit on the last statement rendered by Company. To the extent that the credit exceeds the total charges in that statement, Company shall pay the difference to Customer.

(Continued on Sheet No. E-40.00)

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. E-41.00

(Continued from Sheet No. E-40.00)

Applicable for Off-System Storage and Transportation Service

**E28. CONTRACT STORAGE (INTERRUPTIBLE) SERVICE RATE CS-I (Contd.)**

**Gas in Kind**

Fuel for injection of 1.00% shall be paid for by Gas-in-Kind.

**Rates**

The Storage Charge shall be a rate as mutually agreed to by Customer and Company and set forth in Contract, consisting of a demand portion and/or a commodity portion.

**Late Payment Charge and Due Date:**

A late payment charge of 2% shall be applied to the unpaid balance outstanding if the bill is not paid in full on or before the date on which the bill is due. The due date of Customer's bill shall be 21 days from the date the bill was sent.

**Penalty Charges:**

Company is authorized to charge storage Customers for d Unauthorized Gas Use for any portion of Customer's injections into or withdrawals from storage that exceed the MDIQ, MDWQ, and/or MSQ set forth in the Customer's Storage Contract that is made by the Customer without Company's prior consent. Such a charge shall not apply to any gas tendered as Gas-in-Kind. In the event Customer withdraws gas from storage that is not in Customer's storage account prior to such withdrawal, Company is authorized to invoice Customer \$10.00 per MMBtu plus the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey for the following locations for the month in which the Unauthorized Gas Use occurred: Dawn, Ontario; ~~ANR, ML7~~; Chicago city-gates; Consumers city-gate; or MichCon city-gate for such gas. In the event Gas Daily discontinues its reporting such prices, the Company will select a comparable reporting service.

Customer shall request the withdrawal of all its gas in storage for delivery to the Delivery Point(s) on or before the last Gas Day on the term of the Contract. If, upon termination of the Contract, Customer has not requested the withdrawal of all its gas in storage, then Customer's remaining volumes shall be deemed sold to Company at a rate of the MichCon City Gate Index as published in Gas Daily less \$0.50 per MMBtu. Payment for the volumes left in storage shall appear as a credit on the last statement rendered by Company. To the extent that the credit exceeds the total charges in that statement, Company shall pay the difference to Customer.

(Continued on Sheet No. E-42.00)

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Page TJK-27, Line 19

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M.P.S.C. No. 1 – Gas  
DTE Gas Company  
(Remove ANR-ML7 price reporting location)

Revised Sheet No. F-3.00

\_(Continued from Sheet No. F-2.00)

**GENERAL PROVISIONS (Contd.)**

**F1.8** Gas delivered into the Company’s system shall comply with Rule B1, Technical Standards for Gas Service, Part 8, Gas Quality.

**F1.9** Each supplier shall notify the Company’s Gas Transportation Administration Department of the daily quantity of gas that the Supplier is nominating for delivery on behalf of each Supplier-designated Pricing Category. Such nominations shall be submitted in accordance with the Company’s existing nomination procedures.

**F1.10** A Supplier that falls short of the delivery schedule, described in F1.7, above, shall pay a per MMBtu “Failure Fee” for all shortages in the amount of \$6.00 per MMBtu (\$10.00 per MMBtu during periods of a Company-declared supply emergency in accordance with Rule C3.1, Curtailment of Gas Service for Gas Supply Deficiency plus the higher of (a) the cost of gas billed to sales customers pursuant to the Company’s Rule C7 or (b) the highest price reported in Gas Daily in the midpoint column of the Daily Price Survey, for the following locations for the month in which the breach occurred or the month following such breach: Dawn, Ontario; ~~ANR-ML7~~; Chicago city-gates; Consumers city-gates; or MichCon city-gates.

A Supplier that falls short of the required delivery schedule obligation to the extent that the cumulative unpaid Failure Fees exceed any cash deposit or alternative assurance described in F1.4, above, shall have its Alternative Supplier status revoked. Subject to Rule C2, Controlled Service, the Supplier’s customers shall become sales rate customers of the Company.

**F1.11** All customer billing and remittance processing functions for services provided under Rate CC will be performed by the Company. The Supplier will be charged a monthly fee of \$0.30 per customer account. The Company will be responsible for credit and collection activities for the amounts billed directly to the customer by the Company. The Supplier must, at least three business days prior to the start of each billing month, furnish to the Company, in a format acceptable to the Company, the price per Mcf or Ccf to be billed to each Supplier-designated Pricing Category on its behalf, or the most recently supplied price will be used.

(Continued on Sheet No. F-4.00)

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Michigan Public Service Commission  
DTE Gas Company  
Derivation of Transportation Cost of Service Rate  
For the 12 Months Ending September 30, 2025  
(\$000)

Case No: U-21291  
Exhibit: A-16  
Schedule: F6  
Witness: T. J. Krysinski  
Page: 1 of 1

(a)	(b)
Line No.	(Per WP TJK-6) Transmission Revenue Requirement
1	
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**Michigan Public Service Commission  
DTE Gas Company  
Current and Historical Credit Ratings**

Case No.: U-21291  
Exhibit: A-17  
Schedule: G1  
Witness: T. J. Lepczyk  
Page: 1 of 1

Line	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	<b>Standard &amp; Poor's</b>						
2		<b>Current</b>	<b>Ratings at Year End</b>				
3		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
4	<b>DTE Gas</b>						
5	Senior Secured Debt	A	A	A	A	A	A
6	Commercial Paper	A-2	A-2	A-2	A-2	A-2	A-2
7	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
8							
9	<b>DTE Energy</b>						
10	Senior Unsecured Debt	BBB	BBB	BBB	BBB	BBB	BBB
11	Commercial Paper	A-2	A-2	A-2	A-2	A-2	A-2
12	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
13							
14							
15							
16	<b>Moody's Investors Service</b>						
17		<b>Current</b>	<b>Ratings at Year End</b>				
18		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
19	<b>DTE Gas</b>						
20	Senior Secured Debt	A1	A1	A1	A1	A1	Aa3
21	Commercial Paper	P-2	P-2	P-2	P-2	P-2	P-1
22	Outlook	Stable	Stable	Stable	Stable	Stable	Negative
23							
24	<b>DTE Energy</b>						
25	Senior Unsecured Debt	Baa2	Baa2	Baa2	Baa2	Baa2	Baa1
26	Commercial Paper	P-2	P-2	P-2	P-2	P-2	P-2
27	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
28							
29							
30							
31	<b>Fitch Ratings</b>						
32		<b>Current</b>	<b>Ratings at Year End</b>				
33		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
34	<b>DTE Gas</b>						
35	Senior Secured Debt	A	A	A	A	A	A
36	Commercial Paper	F2	F2	F2	F2	F2	F2
37	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
38							
39	<b>DTE Energy</b>						
40	Senior Unsecured Debt	BBB	BBB	BBB	BBB	BBB+	BBB+
41	Commercial Paper	F2	F2	F2	F2	F2	F2
42	Outlook	Stable	Stable	Stable	Stable	Negative	Negative

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Recent Utility Corporate Bond Issuances**

Case No.: U-21291  
 Exhibit: A-17  
 Schedule: G2  
 Witness: T. J. Lepczyk  
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Line No.	(a) Offer Date	(b) Issuer	(c) Secured (?)	(d) Credit Ratings Moody's	(e) S&P	(f) Maturity	(g) Tenor	(h) Amount (\$MM)	(i) Coupon	(j) Spread
1	01/05/21	Southern California Edison Co	FMB	A3	A-	06/01/30	9 FXD	\$150	2.250%	85
2	01/05/21	Southern California Edison Co	FMB	A3	A-	02/01/51	30 FXD	\$750	2.950%	127
3	01/05/21	Ohio Power Co	Senior	A3	A-	01/15/31	10 FXD	\$450	1.625%	68
4	01/05/21	Southern Power Co	Senior	Baa1	BBB+	01/15/26	5 FXD	\$400	0.900%	57
5	02/01/21	National Rural Utilities Cooperative Finance Corp	Senior	A2	A	02/08/24	3 FXD	\$500	0.350%	20
6	02/09/21	National Fuel Gas Co	Senior	Baa3	BBB-	03/01/31	10 FXD	\$500	2.950%	180
7	02/17/21	NextEra Energy Capital Holdings Inc.	Senior	Baa1	BBB+	02/22/23	2NC1 FRN	\$1,650	0.000%	27
8	02/22/21	Public Service Company of Colorado	FMB	A1	A	06/15/31	10 FXD	\$750	1.875%	58
9	02/22/21	Georgia Power Co.	Senior	Baa2	A-	03/15/51	30 FXD	\$750	3.250%	107
10	02/22/21	National Rural Utilities Cooperative Finance Corp	Senior	A2	A	06/15/26	5 FXD	\$600	1.000%	45
11	02/23/21	Southern Co	Senior	Baa2	BBB+	02/26/24	3 FXD	\$600	0.600%	38
12	02/23/21	Southern Co	Senior	Baa2	BBB+	03/15/28	7 FXD	\$400	1.750%	80
13	02/23/21	Southwestern Public Service Co	Senior	A3	A	05/01/50	29 FXD	\$250	3.150%	95
14	02/24/21	Ameren Corp	Senior	Baa1	BBB	03/15/28	7 FXD	\$450	1.750%	75
15	02/26/21	Centerpoint Energy Respurces Corp	Senior	A3	BBB+	03/02/23	2NC1 FXC	\$700	0.700%	60
16	02/26/21	Centerpoint Energy Respurces Corp	Senior	A3	BBB+	03/02/23	2NC1 FRN	\$1,000	0.000%	50
17	03/01/21	PECO Energy Co	FMB	Aa3	A	03/15/51	30 FXD	\$375	3.050%	82
18	03/02/21	Commonwealth Edison Inc.	FMB	A1	A	03/15/51	30 FXD	\$700	3.125%	90
19	03/02/21	Entergy	Senior	Baa2	BBB	06/15/28	7 FXD	\$650	1.900%	87
20	03/02/21	Entergy	Senior	Baa2	BBB	06/15/31	10 FXD	\$650	2.400%	107
21	03/02/21	Public Service Electric & Gas Co.	Senior	Aa3	A	03/15/26	5 FXD	\$450	0.950%	32
22	03/02/21	Public Service Electric & Gas Co.	Senior	Aa3	A	03/01/51	30 FXD	\$450	3.000%	77
23	03/03/21	Atlantic City Electric	FMB	A2	A	03/15/31	10 FXD	\$350	2.300%	83
24	03/08/21	Eversource Energy	Senior	Baa1	BBB+	03/15/31	10 FXD	\$350	2.550%	100
25	03/08/21	One Gas	Senior	A3	BBB+	03/11/23	2NC1 FXC	\$1,000	0.850%	70
26	03/08/21	One Gas	Senior	A3	BBB+	03/11/23	2NC1 FRN	\$800	0.000%	61
27	03/08/21	One Gas	Senior	A3	BBB+	03/11/24	3NC1 FXC	\$700	1.100%	80
28	03/08/21	Piedmont Natural Gas Co Inc	Senior	A3	BBB+	03/15/31	10 FXD	\$350	2.500%	95
29	03/08/21	Southwestern Electric Power Co	Senior	Baa2	A-	03/15/26	5 FXD	\$500	1.650%	80
30	03/08/21	CenterPoint Energy Houston Electric LLC	Senior Secured	A2	A	04/01/31	10 FXD	\$400	2.350%	80
31	03/08/21	CenterPoint Energy Houston Electric LLC	Senior Secured	A2	A	04/01/51	30 FXD	\$700	3.350%	105
32	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	03/10/23	2NC1 FXC	\$1,500	1.367%	120
33	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	06/01/31	10 FXD	\$450	3.250%	167
34	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	06/01/41	20 FXD	\$450	4.200%	200
35	03/09/21	Appalachian Power Co	Senior	Baa1	A-	04/01/31	10 FXD	\$400	2.700%	120
36	03/09/21	Entergy Mississippi LLC	Senior Secured	A2	A	06/01/51	30 FXD	\$200	3.500%	115
37	03/15/21	NextEra Energy	Senior	Baa1	BBB+	03/01/23	2 FXD	\$2,000	0.650%	50
38	03/15/21	NextEra Energy	Senior	Baa1	BBB+	03/01/23	2 FRN	\$500	0.000%	54
39	03/15/21	Tampa Electric Co.	Senior	A3	BBB+	03/15/31	10 FXD	\$400	2.400%	83
40	03/15/21	Tampa Electric Co.	Senior	A3	BBB+	03/15/51	30 FXD	\$400	3.450%	108
41	03/16/21	WEC Energy Group Inc	Senior	Baa1	BBB+	03/15/24	3 FXD	\$600	0.800%	48
42	03/17/21	FirstEnergy Transmission LLC	Senior	Baa2	BB+	09/15/28	7 FXD	\$500	2.866%	0.02870
43	03/22/21	DTE Electric Company	FMB	Aa3	A	04/01/28	7 FXD	\$575	1.900%	58
44	03/22/21	DTE Electric Company	FMB	Aa3	A	04/01/51	30 FXD	\$425	3.250%	90
45	03/23/21	Northern States Power Co/MN	FMB	Aa3	A	04/01/31	10 FXD	\$425	2.250%	65
46	03/23/21	Northern States Power Co/MN	FMB	Aa3	A	04/01/52	31 FXD	\$425	3.200%	85
47	03/24/21	Entergy Arkansas LLC	FMB	A2	A	06/15/52	31 FXD	\$400	3.350%	105
48	03/24/21	Southern California Edison Co	FMB	A3	A-	04/03/23	2 FXD	\$350	0.700%	60
49	03/24/21	Southern California Edison Co	FMB	A3	A-	04/03/23	2 FRN	\$400	0.000%	64
50	03/24/21	Southern California Edison Co	FMB	A3	A-	04/01/24	3NC2 FXC	\$700	1.100%	80
51	03/24/21	Dominion Energy	Senior	Baa2	BBB	04/15/26	5 FXD	\$600	1.450%	65
52	03/24/21	Dominion Energy	Senior	Baa2	BBB	04/15/41	20 FXD	\$500	3.300%	110
53	03/24/21	Southern California Edison Co	Senior	A3	A-	04/01/24	3NC2 FRN	\$400	0.000%	83

**Michigan Public Service Commission  
DTE Gas Company  
Recent Utility Corporate Bond Issuances**

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
54	03/29/21	Duke Energy Carolinas LLC	FMB	Aa3	A	04/15/31	10 FXD	\$550	2.550%	85
55	03/29/21	Duke Energy Carolinas LLC	FMB	Aa3	A	04/15/51	30 FXD	\$450	3.450%	105
56	04/07/21	Monongahela Power Co	FMB	A3	BBB	05/15/27	6 FXD	\$200	3.550%	120
57	04/07/21	Northern Natural Gas Co	Senior	A2	A	10/16/51	31 FXD	\$550	3.400%	110
58	04/15/21	Essential Utilities Inc	Senior	Baa2	A-	05/01/31	10 FXD	\$400	2.400%	88
59	04/27/21	Indiana Michigan Power Co	Senior	A3	A-	05/01/51	30 FXD	\$450	3.250%	100
60	04/29/21	Toledo Edison Co/The	FMB	A2	BBB	05/01/28	7 FXD	\$150	2.650%	137.5
61	05/04/21	AEP Texas Inc	Senior	Baa2	A-	05/15/51	30 FXD	\$450	3.450%	120
62	05/05/21	Florida Power & Light Co	Senior	A1	A	05/10/23	2NC1 FRN	\$1,000	0.000%	25
63	05/06/21	Tucson Electric Power Co	Senior	A3	A-	05/01/51	30 FXD	\$325	3.250%	105
64	05/10/21	American Water Capital Corp	Senior	Baa1	A	06/01/31	10 FXD	\$550	2.300%	73
65	05/10/21	American Water Capital Corp	Senior	Baa1	A	06/01/51	30 FXD	\$550	3.250%	93
66	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	05/13/24	3NC1 FRN	\$700	0.000%	65
67	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	06/01/26	5 FXD	\$500	1.450%	70
68	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	06/01/31	10 FXD	\$500	2.650%	105
69	05/13/21	Spire Missouri Inc	Senior	A1	A	06/01/51	30 FXD	\$305	3.300%	90
70	05/20/21	Mid-Atlantic Interstate Transmission LLC	Senior	A3	BB+	05/15/28	7 FXD	\$150	4.100%	125
71	05/24/21	NSTAR Electric Co	Senior	A1	A	06/01/51	30 FXD	\$300	3.100%	83
72	05/24/21	OGE Energy Corp	Senior	Baa1	BBB+	05/26/23	2NC1 FXL	\$500	0.703%	55
73	05/24/21	Oklahoma Gas and Electric Co	Senior	A3	A-	05/26/23	2NC1 FXL	\$500	0.553%	40
74	05/25/21	Emera US Finance LP	Senior	Baa3	BBB-	06/15/24	3 FXD	\$300	0.833%	53
75	05/25/21	Emera US Finance LP	Senior	Baa3	BBB-	06/15/31	10 FXD	\$450	2.639%	108
76	06/01/21	Pacific Gas and Electric Co	FMB	Baa3	BBB-	06/15/28	7 FXD	\$800	3.000%	180
77	06/01/21	Public Service Co of New Hampshire	FMB	A1	A+	06/15/31	10 FXD	\$350	2.200%	62
78	06/02/21	NextEra Energy Capital Holdings Inc	Senior	Baa1	BBB+	06/15/28	7 FXD	\$1,500	1.900%	65
79	06/03/21	Puget Energy Inc	Secured	Baa3	BBB-	06/15/28	7 FXD	\$500	2.379%	108
80	06/03/21	Consolidated Edison Co of New York Inc	Senior	Baa1	A-	06/15/31	10 FXD	\$750	2.400%	80
81	06/03/21	Consolidated Edison Co of New York Inc	Senior	Baa1	A-	06/15/61	40 FXD	\$750	3.600%	130
82	06/07/21	Alabama Power Co	Senior	A1	A	07/15/51	30 FXD	\$600	3.125%	87.5
83	06/07/21	Baltimore Gas and Electric Co	Senior	A3	A	06/15/31	10 FXD	\$600	2.250%	70
84	06/07/21	Duke Energy	Senior	Baa2	BBB	06/10/23	2 FRN	\$500	0.000%	25
85	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/31	10 FXD	\$1,000	2.550%	100
86	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/41	20 FXD	\$750	3.300%	115
87	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/51	30 FXD	\$750	3.500%	125
88	06/08/21	Jersey Central Power & Light Co	Senior	A3	BB+	03/01/32	11 FXD	\$500	2.750%	125
89	06/08/21	Wisconsin Electric Power Co	Senior	A2	A-	06/15/28	7 FXD	\$300	1.700%	50
90	06/09/21	Southern California Edison Co	FMB	A3	A-	06/01/31	10 FXD	\$450	2.500%	105
91	06/09/21	Southern California Edison Co	FMB	A3	A-	06/13/22	1 FRN	\$475	0.000%	35
92	06/09/21	Southern California Edison Co	FMB	A3	A-	06/01/51	30 FXD	\$450	3.650%	148
93	06/09/21	Union Electric Co	FMB	A2	A	03/15/32	11 FXD	\$525	2.150%	67
94	06/21/21	Connecticut Light and Power Co/The	FMB	A1	A+	07/01/31	10 FXD	\$425	2.050%	60
95	06/21/21	PPL Electric Utilities Corp	FMB	A1	A	06/24/24	3NC1 FRN	\$650	0.000%	33
96	06/22/21	Ameren Illinois Co	FMB	A1	A	06/15/23	2 FXD	\$100	0.375%	15
97	06/22/21	Ameren Illinois Co	FMB	A1	A	06/15/51	30 FXD	\$350	2.900%	80
98	06/22/21	Duquesne Light Holdings Inc	Senior	Baa3	BBB-	01/07/32	11 FXD	\$400	2.775%	130
99	06/24/21	Mississippi Power Co	Senior	Baa1	A-	06/28/24	3 FRN	\$200	0.000%	30
100	06/24/21	Mississippi Power Co	Senior	Baa1	A-	07/30/51	30 FXD	\$325	3.100%	105
101	07/07/21	PacifiCorp	FMB	A1	A+	06/15/52	31 FXD	\$750	2.900%	98
102	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/26	5 FXD	\$1,250	1.375%	70
103	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/28	7 FXD	\$1,000	1.875%	85
104	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/31	10 FXD	\$1,000	2.250%	100
105	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/41	20 FXD	\$750	2.875%	110
106	07/20/21	MidAmerican Energy Co	Secured	A2	A+	08/01/52	31 FXD	\$500	2.700%	85
107	08/02/21	Consumers Energy	FMB	A1	A	08/15/52	31 FXD	\$300	2.650%	78

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
108	08/02/21	AEP Transmission Co LLC	Senior	A2	A-	08/15/51	30 FXD	\$450	2.750%	90
109	08/05/21	Commonwealth Edison Co.	FMB	A1	A	09/01/51	30 FXD	\$450	2.750%	87
110	08/05/21	Southern California Edison Co.	FMB	A3	A-	08/01/23	2 FXD	\$400	0.700%	50
111	08/05/21	Southern California Edison Co.	FMB	A3	BBB+	08/01/24	3 FXD	\$450	0.975%	60
112	08/09/21	Duke Energy Progress LLC	FMB	Aa3	A	08/15/31	10 FXD	\$650	2.000%	70
113	08/09/21	Duke Energy Progress LLC	FMB	Aa3	A	08/15/51	30 FXD	\$450	2.900%	93
114	08/09/21	San Diego Gas & Electric Co	FMB	A1	A	08/15/51	30 FXD	\$750	2.950%	100
115	08/10/21	Dominion Energy	Senior	Baa2	BBB	08/15/31	10 FXD	\$1,000	2.250%	92
116	08/10/21	Eversource Energy	Senior	Baa1	BBB+	08/15/23	2 FRN	\$350	0.000%	25
117	08/10/21	Eversource Energy	Senior	Baa1	BBB+	08/15/26	5 FXD	\$300	1.400%	60
118	08/10/21	NSTAR Electric Co	Senior	A1	A	08/15/31	10 FXD	\$300	1.950%	67
119	08/11/21	Arizona Public Service Co	Senior	A2	A-	12/15/31	10 FXD	\$450	2.200%	87.5
120	08/11/21	Entergy Texas Inc	Senior	Baa1	A	09/01/26	5 FXD	\$130	1.500%	75
121	08/11/21	Public Service Co of Oklahoma	Senior	Baa1	A-	08/15/31	10 FXD	\$400	2.200%	90
122	08/11/21	Public Service Co of Oklahoma	Senior	Baa1	A-	08/15/51	30 FXD	\$400	3.150%	115
123	08/17/21	Public Service Electric and Gas Co	Senior	Aa3	A	08/15/31	10 FXD	\$425	1.900%	68
124	08/18/21	Southwest Gas Corp	Senior	Baa1	A-	08/15/51	30 FXD	\$300	3.180%	128
125	08/23/21	Black Hills Corp	Senior	Baa2	BBB+	08/23/24	3NC1 FXL	\$600	1.037%	60
126	09/07/21	PECO Energy Co	FMB	Aa3	A	09/15/51	30 FXD	\$375	2.850%	88
127	09/07/21	Southern Co Gas Capital Corp	Senior	Baa1	A-	09/30/51	30 FXD	\$450	3.150%	123
128	09/08/21	Cleco Power	Senior	A3	BBB+	06/15/23	2 FRN	\$325	0.000%	50
129	09/08/21	Puget Sound Energy	Senior	A2	A-	09/15/51	30 FXD	\$450	2.893%	95
130	09/09/21	Ohio Power	Senior	A3	A-	10/01/51	30 FXD	\$600	2.900%	103
131	09/13/21	Wisconsin Power and Light	Senior	A3	A	09/16/31	10 FXD	\$300	1.950%	63
132	09/14/21	The Southern Co	Jr Sub	Baa3/BBB-		NA	1C6 FXD/F	\$1,250	1.875%	0.01875
133	09/21/21	Atmos Energy Corp	Senior	A1/A-		02/15/52	30 FXD	\$600	2.850%	103
134	09/21/21	New York State Electric & Gas Corp	Senior	Baa1/A-		10/01/31	10 FXD	\$350	2.150%	85
135	09/23/21	Duke Energy Corp	Jr Sub	Baa3/BBB-		01/15/82	1C5 FXD/F	\$500	3.250%	0.0325
136	09/28/21	Entergy Louisiana LLC	Secured	A2/A		10/01/24	3NC1 FXL	\$1,000	0.950%	45
137	10/18/21	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/18/24	3 FXD	\$400	1.000%	30
138	10/18/21	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/18/24	3 FRN	\$350	--	33
139	10/27/21	NextEra Energy Capital	Senior	Baa1/BBB+		11/03/23	2NC1 FRN	\$1,300	--	40
140	10/29/21	Xcel Energy Inc	Senior	Baa1/BBB+		03/15/27	5 FXD	\$500	1.750%	62
141	10/29/21	Xcel Energy Inc	Senior	Baa1/BBB+		11/15/31	10 FXD	\$300	2.350%	82
142	11/01/21	Southwestern Electric Power	Senior	Baa2/BBB+		11/01/51	30 FXD	\$650	3.250%	130
143	11/04/21	Edison International	Pref	Ba2/BB+		12/31/99	24 FXD/F	\$750	3.901%	0.05
144	11/04/21	Public Service Enterprise Group Inc	Senior	Baa2/BBB		11/08/23	2NC1 FXL	\$750	0.841%	43
145	11/04/21	Public Service Enterprise Group Inc	Senior	Baa2/BBB		11/15/31	10 FXD	\$750	2.450%	95
146	11/05/21	Southern Co / The	Senior	Baa2/BBB		NA	2NC1 FRN	\$600	--	37
147	11/08/21	Northwest Natural Gas	FMB	A2/AA-		12/01/51	30 FXD	\$130	3.078%	120
148	11/10/21	American Electric Power	Jr Sub	Baa3/BB+/BBB		02/15/62	1C5 FXD/F	\$750	3.875%	0.03875
149	11/10/21	Entergy Mississippi Llc	FMB	A2/A/A		12/01/33	12 FXD	\$200	2.550%	105
150	11/10/21	Oncor Electric Delivery	Senior	A2/A+		NA	10 FXD	\$300	--	58
151	11/10/21	Oncor Electric Delivery	FMB	A2/A+		11/15/51	30 FXD	\$500	2.700%	88
152	11/10/21	Pacific Gas & Electric	FMB	Baa3/BBB-		11/15/22	1 FRN	\$300	--	115
153	11/10/21	Pacific Gas and Electric Co	FMB	Baa3/BBB-		06/01/31	10 FXD	\$550	3.250%	158
154	11/10/21	Pacific Gas and Electric Co	FMB	Baa3/BBB-		11/15/23	2NC1 FXL	\$900	1.700%	125
155	11/10/21	Wisconsin Public Service	Senior	A2/A-		12/01/51	30 FXD	\$450	2.850%	95
156	11/15/21	Alabama Power Co	Senior	A1/A-		03/15/52	30 FXD	\$700	3.000%	100
157	11/15/21	Ameren Corp	Senior	Baa1/BBB		03/15/27	5 FXD	\$500	1.950%	70
158	11/15/21	DTE Energy Co	Jr Sub	Baa3/BBB-		12/01/81	10NC5 FXI	\$280	4.375%	0.04375
159	11/15/21	Sempra Energy	Jr Sub	Baa3/BBB-		04/01/52	1C5 FXD/F	\$1,000	4.125%	0.04125
160	11/15/21	Virginia Electric and Power	Senior	A2/BBB+		11/15/31	10 FXD	\$500	2.300%	70
161	11/15/21	Virginia Electric and Power	Senior	A2/BBB+		11/15/51	30 FXD	\$500	2.950%	95

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				Moody's	S&P					
162	11/16/21	Florida Light & Power Co	FMB	Aa2/A+		12/04/51	30 FXD	\$1,200	2.875%	85
163	11/16/21	Interstate Power and Light Co	Senior	Baa1/A-		11/30/51	30 FXD	\$300	3.100%	110
164	11/18/21	Dominion Energy South Carolina Inc	FMB	A3/A		12/01/31	10 FXD	\$300	2.300%	72
165	11/29/21	American Transmission Systems Inc	Senior	A3/BBB		01/15/32	10 FXD	\$600	2.650%	115
166	11/29/21	Consolidated Edison Co of New York	Senior	Baa1/A-		06/15/31	10 FXD	\$150	2.400%	87
167	11/29/21	Consolidated Edison Co of New York	Senior	Baa1/A-		12/01/51	30 FXD	\$600	3.200%	132
168	11/29/21	Duke Energy Florida LLC	FMB	A1/A		12/15/31	10 FXD	\$650	2.400%	90
169	11/29/21	Duke Energy Florida LLC	FMB	A1/A		12/15/51	30 FXD	\$500	3.000%	115
170	12/01/21	Dominion Energy Inc	Jr Sub	Ba1/BBB-		12/31/99	1NC5 FXD	\$750	4.350%	0.0435
171	12/01/21	Southern California Edison Co	FMB	A3/A-		12/02/22	1 FRN	\$550	--	47
172	12/01/21	Spire Missouri Inc	FMB	A1/A		12/02/24	3NC1 FRN	\$300	--	50
173	12/06/21	WEC Energy	Senior	Baa1/BBB+		12/15/28	7 FXD	\$500	2.200%	85
174	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/27	5 FXD	\$1,000	1.875%	62
175	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/32	10 FXD	\$1,000	2.440%	92
176	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/52	30 FXD	\$500	3.000%	112
177	12/09/21	NextEra Energy Capital Holdings Inc	Jr Sub	Baa2/BBB		03/15/82	1C5 FXD/F	\$600	3.800%	0.038
178	01/04/22	American Electric Power Co	Jr Sub	Baa3/BBB+		03/15/24	2 FXD	\$805	2.031%	85
179	01/05/22	Niagara Mohawk Power Corp	Senior	Baa1/BBB+		01/10/32	10 FXD	\$400	2.759%	105
180	01/05/22	Virginia Electric and Power Co	Senior	A2/BBB+		11/15/51	30 FXD	\$400	2.950%	98
181	01/05/22	Virginia Electric and Power Co	Senior	A2/BBB+		03/30/32	10 FXD	\$600	2.400%	70
182	01/06/22	Sempra Infrastructure Partners LP	Senior	Baa3/BBB-		NA	10 FXD	\$400	--	165
183	01/10/22	Southern California Edison Co	FMB	A3/A-		02/01/32	10 FXD	\$500	2.750%	98
184	01/10/22	Southern California Edison Co	FMB	A3/A-		02/01/52	30 FXD	\$700	3.450%	135
185	01/11/22	Atmos Energy Corp	Senior	A1/A-		09/15/29	10 FXD	\$200	2.625%	68
186	01/12/22	Algonquin Power & Utilities Corp	Jr Sub	NR/BB+		01/18/82	1C5 FXD/F	\$750	4.750%	0.0475
187	01/12/22	Florida Power & Light Co	FMB	Aa2/A+		02/03/32	10 FXD	\$1,500	2.450%	73
188	01/12/22	Florida Power & Light Co	Senior	Aa2/A+		01/12/24	2NC0 FRN	\$1,000	--	38
189	01/12/22	KeySpan Gas East Corp	Senior	Baa1/BBB+		01/18/52	30 FXD	\$400	3.586%	150
190	01/31/22	National Rural Utilities Cooperative Finance Corp	Secured	A1/A-		04/15/32	10 FXD	\$500	2.750%	100
191	01/31/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		08/07/23	2 FRN	\$400	--	40
192	01/31/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		02/07/25	3 FXD	\$600	1.875%	50
193	02/02/22	Fells Point Funding Trust / Constellation Energy	Senior	Baa2/BBB-		NA	5 FXD	\$1,000	--	145
194	02/15/22	Tuscon Electric Power Co	Senior	A3/A-		05/15/32	10 FXD	\$325	3.250%	125
195	02/16/22	DTE Electric Co	Secured	Aa3/A		03/01/32	10 FXD	\$500	3.000%	100
196	02/16/22	DTE Electric Co	Secured	Aa3/A		03/01/52	30 FXD	\$400	3.650%	130
197	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		02/16/24	2NC1 FXL	\$1,000	3.250%	175
198	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/29	7 FXD	\$400	4.200%	220
199	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/32	10 FXD	\$450	4.400%	240
200	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/52	30 FXD	\$550	5.250%	290
201	02/22/22	Eversource Energy	Senior	Baa1/BBB+		03/01/32	10 FXD	\$650	3.375%	145
202	02/22/22	Eversource Energy	Senior	Baa1/BBB+		03/01/27	5 FXD	\$650	2.900%	105
203	02/23/22	Alliant Energy Finance LLC	Senior	Baa2/BBB+		03/01/32	10 FXD	\$350	3.600%	165
204	02/23/22	CenterPoint Energy Houston Electric LLC	FMB	A2/A		03/01/32	10 FXD	\$300	3.000%	107
205	02/23/22	CenterPoint Energy Houston Electric LLC	FMB	A2/A		03/01/52	30 FXD	\$500	3.600%	137
206	03/01/22	Duke Energy Carolinas	FMB	Aa3/A		03/15/32	10 FXD	\$500	2.850%	115
207	03/01/22	Duke Energy Carolinas	FMB	Aa3/A		03/15/52	30 FXD	\$650	3.550%	145
208	03/02/22	Alabama Power Co	Senior	A1/A-		03/15/32	10 FXD	\$700	3.050%	120
209	03/02/22	Entergy Arkansas	FMB	A2/A-		04/01/49	30 FXD	\$200	4.200%	160
210	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/27	5 FXD	\$650	2.750%	100
211	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/32	10 FXD	\$650	3.350%	145
212	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/52	30 FXD	\$700	4.100%	180
213	03/07/22	San Diego Gas & Electric Co	FMB	A1/A		03/15/32	10 FXD	\$500	3.000%	128
214	03/07/22	San Diego Gas & Electric Co	FMB	A1/A		03/15/52	30 FXD	\$500	3.700%	155
215	03/08/22	Avista Corp	FMB	A3/A-		04/01/52	30 FXD	\$400	4.000%	175

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Line No.	Offer Date	Issuer	(c) Secured (?)	(e) Credit Ratings		(f) Maturity	(g) Tenor	(h) Amount (\$MM)	(i) Coupon	(j) Spread
				(d) Moody's	(e) S&P					
216	03/08/22	Commonwealth Edison Co	FMB	A1/A		03/15/52	30 FXD	\$450	3.850%	160
217	03/08/22	Commonwealth Edison Co	FMB	A1/A		03/15/32	10 FXD	\$300	3.150%	130
218	03/08/22	Southern California Gas Co	Senior	A2/A		04/15/27	5 FXD	\$700	2.950%	125
219	03/09/22	Public Service Electric and Gas Co	Secured	A1/A		03/15/32	10 FXD	\$500	3.100%	120
220	03/10/22	Evergy Missouri West Inc	FMB	A3/A		03/15/32	10 FXD	\$250	3.750%	175
221	03/11/22	Boston Gas Company	Senior	Baa1/BBB+		03/16/32	10 FXD	\$400	3.757%	175
222	03/14/22	Duke Energy Progress LLC	FMB	Aa3/A		04/01/32	10 FXD	\$500	3.400%	130
223	03/14/22	Duke Energy Progress LLC	FMB	Aa3/A		04/01/52	30 FXD	\$400	4.000%	155
224	03/14/22	Puget Energy Inc	Secured	Baa3/BBB-		03/15/32	10 FXD	\$450	4.224%	210
225	03/17/22	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		03/21/24	2NC1 FXL	\$1,100	2.940%	100
226	03/17/22	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		03/21/24	2NC1 FRN	\$400	--	102
227	03/17/22	Southwest Gas Corp	Senior	Baa1/BBB		03/15/32	10 FXD	\$600	4.050%	190
228	03/21/22	Sempra Energy	Senior	Baa2/BBB		04/01/25	3 FXD	\$750	3.300%	102
229	03/21/22	Sempra Energy	Senior	Baa2/BBB		04/01/29	7 FXD	\$500	3.700%	140
230	03/21/22	Union Electric Co	FMB	A2/A		04/01/52	30 FXD	\$525	3.900%	135
231	04/04/22	Oglethorpe Power Corp	FMB	Baa1/BBB+		04/01/47	25 FXD	\$500	4.500%	205
232	04/19/22	Berkshire Hathaway Energy Co	Senior	A3/A-		05/01/53	31 FXD	\$1,000	4.600%	162.5
233	04/27/22	National Rural Utilities Co	Senior	A2/A-		06/15/25	3 FXD	\$300	3.450%	75
234	05/02/22	American Water Capital Corp	Senior	Baa1/A		06/01/32	10 FXD	\$800	4.450%	150
235	05/02/22	Georgia Power Co	Senior	Baa1/BBB+		05/15/32	10 FXD	\$700	4.700%	175
236	05/02/22	Georgia Power Co	Senior	Baa1/BBB+		05/15/52	30 FXD	\$800	5.125%	210
237	05/02/22	Northern States Power Co/MN	FMB	Aa3/A		06/01/52	30 FXD	\$500	4.500%	148
238	05/03/22	Xcel Energy Inc	Senior	Baa1/BBB+		06/01/32	10 FXD	\$700	4.600%	167
239	05/05/22	Southern Company/The	Jr Sub	Baa3/BBB		NA	2 FXD	\$863	--	155
240	05/05/22	Southern Company/The	Jr Sub	Baa3/BBB		NA	5 FXD	\$863	--	200
241	05/10/22	Piedmont Natural Gas Co Inc	Senior	A3/BBB+		05/15/52	30 FXD	\$400	5.050%	197
242	05/10/22	Public Service Co of Colorado	FMB	A1/A		06/01/32	10 FXD	\$300	4.100%	120
243	05/10/22	Public Service Co of Colorado	FMB	A1/A		06/01/52	30 FXD	\$400	4.500%	145
244	05/10/22	Vistra Operations Co LLC	Secured	Baa3/BBB-		05/13/24	2NC1 FXL	\$400	4.875%	225
245	05/10/22	Vistra Operations Co LLC	Secured	Baa3/BBB-		05/13/25	3 FXD	\$1,100	5.125%	237.5
246	05/12/22	NSTAR Electric Co	Senior	A1/A		06/01/52	30 FXD	\$450	4.550%	157
247	05/16/22	AEP Texas Inc	Senior	Baa2/A-		05/15/32	10 FXD	\$500	4.700%	185
248	05/16/22	AEP Texas Inc	Senior	Baa2/A-		05/15/52	30 FXD	\$500	5.250%	215
249	05/16/22	Virginia Electric and Power Co	Senior	A2/BBB+		05/15/27	5 FXD	\$600	3.750%	98
250	05/16/22	Virginia Electric and Power Co	Senior	A2/BBB+		05/15/52	30 FXD	\$600	4.625%	160
251	05/17/22	Oncor Electric Delivery Co LLC	FMB	A2/A+		06/01/32	10 FXD	\$400	4.150%	122
252	05/17/22	Oncor Electric Delivery Co LLC	FMB	A2/A+		06/01/52	30 FXD	\$400	4.600%	147
253	05/17/22	PECO Energy Co	FMB	Aa3/A		05/15/52	30 FXD	\$350	4.600%	147
254	05/18/22	Essential Utilities Inc	Senior	Baa2/A-		05/01/52	30 FXD	\$500	5.300%	225
255	05/18/22	Southern California Edison Co	FMB	A3/A-		06/01/25	3 FXD	\$300	4.200%	140
256	05/18/22	Southern California Edison Co	FMB	A3/A-		06/01/27	5 FXD	\$600	4.700%	185
257	05/18/22	Southern California Edison Co	FMB	A3/A-		06/01/52	30 FXD	\$350	5.450%	240
258	05/23/22	Southwestern Public Service Co	FMB	A3/A		06/01/52	30 FXD	\$200	5.150%	210
259	06/01/22	Baltimore Gas and Electric Co	Senior	A3/A		06/01/52	30 FXD	\$500	4.550%	145
260	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-		06/08/25	3 FXD	\$450	4.950%	205
261	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-		06/15/27	5 FXD	\$450	5.450%	245
262	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-		06/15/32	10 FXD	\$600	5.900%	205
263	06/07/22	AEP Transmission Co	Senior	A2/A-		06/15/52	30 FXD	\$550	4.500%	140
264	06/07/22	Centerpoint Energy Resources	Senior	A3/BBB+		07/01/32	10 FXD	\$500	4.400%	145
265	06/07/22	NiSource Inc	Senior	Baa2/BBB+		06/15/52	30 FXD	\$350	5.000%	190
266	06/08/22	Enel Finance International	Senior	Baa1/BBB+		06/15/25	3 FXD	\$750	4.250%	145
267	06/08/22	Enel Finance International	Senior	Baa1/BBB+		06/15/27	5 FXD	\$750	4.625%	165
268	06/08/22	Enel Finance International	Senior	Baa1/BBB+		06/15/32	10 FXD	\$1,000	5.000%	215
269	06/08/22	Enel Finance International	Senior	Baa1/BBB+		06/15/52	30 FXD	\$1,000	5.500%	240

**Michigan Public Service Commission  
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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
270	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		06/20/24	2 FXD	\$750	4.200%	100
271	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		06/20/25	3 FXD	\$1,000	4.450%	110
272	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		07/15/27	5 FXD	\$1,250	4.625%	125
273	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		07/15/32	10 FXD	\$1,000	5.000%	170
274	06/22/22	Eversource Energy	Senior	Baa1/BBB+		07/01/27	5 FXD	\$600	4.600%	140
275	06/22/22	Eversource Energy	Senior	Baa1/BBB+		06/27/24	3 FXD	\$900	4.200%	115
276	07/07/22	Tampa Electric Co	Senior	A3/BBB+		07/12/24	2 FXD	\$300	3.875%	85
277	07/07/22	Tampa Electric Co	Senior	A3/BBB+		07/15/52	30 FXD	\$300	5.000%	180
278	07/28/22	Appalachian Power	Senior	Baa1/A-		04/01/32	10 FXD	\$500	4.500%	185
279	08/01/22	Consumers Energy Co	FMB	A1/A		08/15/32	10 FXD	\$350	3.600%	100
280	08/01/22	Consumers Energy Co	FMB	A1/A		09/01/52	30 FXD	\$450	4.200%	125
281	08/01/22	Edison International	Senior	Baa3/BBB-		08/15/25	3 FXD	\$400	4.700%	190
282	08/02/22	Brooklyn Union Gas Co/The	Senior	Baa2/BBB+		08/05/27	5 FXD	\$400	4.632%	177
283	08/02/22	Brooklyn Union Gas Co/The	Senior	Baa2/BBB+		08/05/32	10 FXD	\$400	4.866%	212
284	08/02/22	NextEra Energy Capital Holdings	Senior	Baa1/BBB+		09/01/24	2 FXD	\$1,500	4.255%	105
285	08/03/22	DTE Energy Co	Senior	Baa2/BBB		11/01/24	2 FXD	\$1,300	4.220%	112.5
286	08/04/22	ONE Gas Inc.	Senior	A3/BBB+		09/01/32	10 FXD	\$300	4.250%	165
287	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		03/15/28	5 FXD	\$900	4.300%	142
288	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		08/15/32	10 FXD	\$1,150	4.500%	177
289	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		08/15/52	30 FXD	\$1,150	5.000%	202
290	08/08/22	Wisconsin Power and Light Co	Senior	A3/A		09/01/32	10 FXD	\$600	3.950%	132
291	08/09/22	Alabama Power Co	Senior	A1/A-		09/01/27	5 FXD	\$550	3.750%	80
292	08/09/22	Alabama Power Co	Senior	A1/A-		09/01/32	10 FXD	\$450	3.940%	115
293	08/09/22	Dominion Energy Inc	Senior	Baa2/BBB		08/15/32	10 FXD	\$400	4.350%	165
294	08/09/22	Dominion Energy Inc	Senior	Baa2/BBB		08/15/52	30 FXD	\$600	4.850%	190
295	08/10/22	National Rural Utilities Cooperative Finance Corp	Senior	A1/A-		12/15/32	10 FXD	\$400	4.150%	140
296	08/15/22	Ameren Illinois Co	FMB	A1/A		09/01/32	10 FXD	\$500	3.850%	108
297	08/16/22	PECO Energy Co	FMB	Aa3/A		08/15/52	30 FXD	\$425	4.375%	127
298	08/18/22	Entergy Louisiana LLC	FMB	A2/A		09/15/52	30 FXD	\$500	4.750%	162.5
299	08/22/22	Entergy Texas, Inc.	FMB	A3/A-		09/15/52	30 FXD	\$325	5.000%	178
300	09/06/22	Oncor Electric Delivery Co LLC	Senior	A2/A+		09/15/32	10 FXD	\$700	4.550%	123
301	09/06/22	Oncor Electric Delivery Co LLC	Senior	A2/A+		09/15/52	30 FXD	\$500	4.950%	148
302	09/06/22	Southern Co Gas Capital Corp	Senior	Baa1/BBB+		09/15/32	10 FXD	\$500	5.150%	185
303	09/08/22	ITC Holdings Corp	Senior	Baa2/BBB+		09/22/27	5 FXD	\$600	4.950%	158
304	09/12/22	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/32	10 FXD	\$500	4.450%	115
305	09/12/22	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/52	30 FXD	\$300	4.850%	137.5
306	09/12/22	NSTAR Electric Co	Senior	A1/A		09/15/52	30 FXD	\$400	4.950%	147
307	09/12/22	Niagara Mohawk Power Corp	Senior	Baa1/BBB+		09/16/52	30 FXD	\$500	5.783%	225
308	09/14/22	Wisconsin Electric Power Co	Senior	A2/A-		09/30/32	10 FXD	\$500	4.750%	135
309	09/22/22	Ohio Edison Co	Senior	A3/BBB		01/15/33	10 FXD	\$300	5.500%	185
310	09/22/22	WEC Energy Group Inc	Senior	Baa1/BBB+		09/27/25	3 FXD	\$500	5.000%	90
311	09/22/22	WEC Energy Group Inc	Senior	Baa1/BBB+		10/01/27	5 FXD	\$400	5.150%	128
312	09/27/22	Atmos Energy Group	Senior	A1/A-		10/15/32	10 FXD	\$300	5.450%	152
313	09/27/22	Atmos Energy Group	Senior	A1/A-		10/15/52	30 FXD	\$500	5.750%	195
314	10/03/22	The Southern Co	Senior	Baa2/BBB		10/15/32	10 FXD	\$500	5.700%	205
315	10/03/22	The Southern Co	Senior	Baa2/BBB		10/06/25	3 FXD	\$500	5.150%	110
316	10/03/22	EDP Finance	Senior	Baa3/BBB		10/11/27	5 FXD	\$500	6.300%	245
317	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/52	30 FXD	\$1,000	7.750%	440
318	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/32	10 FXD	\$1,250	7.500%	400
319	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/25	3 FXD	\$750	6.800%	275
320	10/06/22	Enel Finance America LLC	Senior	Baa1/BBB+		10/14/27	5 FXD	\$1,000	7.100%	325
321	10/17/22	Nevada Power Co	Senior	A2/A+		05/01/53	30 FXD	\$400	5.900%	190
322	10/20/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/30/25	3 FXD	\$500	5.450%	85
323	10/20/22	National Rural Utilities Cooperative Finance Corp	CTB	A2/A-		01/15/33	10 FXD	\$350	5.800%	158

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
324	10/31/22	American Electric Power Company Inc	Senior	Baa2/BBB+		11/01/32	10 FXD	\$500	5.950%	195
325	10/31/22	American Electric Power Company Inc	Senior	Baa2/BBB+		11/01/27	5 FXD	\$500	5.750%	155
326	11/03/22	Southern California Edison Co	Senior	A3/A-		11/01/32	10 FXD	\$750	5.950%	190
327	11/03/22	Southern California Edison Co	Senior	A3/A-		11/01/27	5 FXD	\$750	5.850%	150
328	11/04/22	Public Service Enterprise	Senior	Baa2/BBB		11/15/27	5 FXD	\$700	5.850%	155
329	11/04/22	Arizona Public Service Co	Senior	A3/BBB+		12/15/32	10 FXD	\$400	6.350%	220
330	11/07/22	Wisconsin Public Service Corp	Senior	A2/A-		11/10/25	3 FXD	\$300	5.350%	72
331	11/07/22	Southern California Gas Co	FMB	Aa3/A+		11/15/52	30 FXD	\$600	6.350%	205
332	11/07/22	Edison	Senior	Baa3/BBB-		11/15/29	7 FXD	\$550	6.950%	280
333	11/07/22	Duke Energy Florida LLC	FMB	A1/A		11/15/52	30 FXD	\$500	5.950%	167
334	11/08/22	Indianapolis Power & Light Co	FMB	A2/A-		12/01/32	10 FXD	\$350	5.650%	155
335	11/08/22	Ameren Illinois CO	FMB	A1/A		12/01/52	30 FXD	\$350	5.900%	163
336	01/03/23	The Connecticut Light and Power Co	FMB	A1/A+		01/15/53	30 FXD	\$500	5.250%	135
337	01/03/23	Public Service Co of Oklahoma	Senior	Baa1/A-		01/15/33	10 FXD	\$475	5.250%	150
338	01/03/23	Oklahoma Gas and Electric Co	Senior	A3/A-		01/15/33	10 FXD	\$450	5.400%	165
339	01/03/23	Entergy Arkansas LLC	FMB	A2/A		01/15/33	10 FXD	\$425	5.150%	140
340	01/03/23	Duke Energy Carolinas LLC	FMB	Aa3/A		01/15/53	30 FXD	\$900	5.350%	145
341	01/03/23	Duke Energy Carolinas LLC	FMB	Aa3/A		01/15/33	10 FXD	\$900	4.950%	120
342	01/03/23	Consumers Energy Co	FMB	A1/A		03/01/28	5 FXD	\$425	4.650%	75
343	01/03/23	Commonwealth Edison Co	FMB	A1/A		02/01/53	30 FXD	\$575	5.300%	140
344	01/03/23	Commonwealth Edison Co	FMB	A1/A		02/01/33	10 FXD	\$400	4.900%	115
345	01/04/23	Public Service Co of New Hampshire	FMB	A1/A+		01/15/53	30 FXD	\$300	5.150%	133
346	01/04/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/33	10 FXD	\$750	6.150%	250
347	01/04/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/53	30 FXD	\$750	6.750%	295
348	01/09/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/15/28	5 FXD	\$450	4.750%	112.5
349	01/09/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/09/26	3 FXD	\$650	4.750%	85
350	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		03/13/26	3 FXD	\$600	4.450%	70
351	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		03/15/28	5 FXD	\$200	4.800%	95
352	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A1/A-		01/15/33	10 FXD	\$300	5.800%	123
353	02/06/23	Spire Missouri Inc	FMB	A1/A		02/15/33	10 FXD	\$400	4.800%	120
354	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/53	30 FXD	\$1,150	5.250%	155
355	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/33	10 FXD	\$1,000	5.050%	140
356	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/30	7 FXD	\$600	5.000%	125
357	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/28	5 FXD	\$1,250	4.900%	110
358	02/13/23	Tucson Electric Power Co	Senior	A3/A-		04/15/53	30 FXD	\$375	5.500%	175
359	02/13/23	Consumers Energy Co	FMB	A1/A		05/15/33	10 FXD	\$700	4.625%	97
360	02/16/23	Exelon	Senior	Baa2/BBB		03/15/53	30 FXD	\$650	5.600%	170
361	02/16/23	Exelon	Senior	Baa2/BBB		03/15/33	10 FXD	\$850	5.300%	145
362	02/16/23	Exelon	Senior	Baa2/BBB		03/15/28	5 FXD	\$1,000	5.150%	112.5
363	02/21/23	Constellation Energy Generation LLC	Senior	Baa2/BBB		03/01/33	10 FXD	\$600	5.800%	185
364	02/21/23	Constellation Energy Generation LLC	Senior	Baa2/BBB		03/01/28	5 FXD	\$750	5.600%	143
365	02/21/23	Consolidated Edison Co of New York Inc	Senior	Baa1/A-		03/01/33	10 FXD	\$500	5.200%	125
366	02/21/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/33	10 FXD	\$600	5.400%	145
367	02/21/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/28	5 FXD	\$600	5.250%	115
368	02/22/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		03/01/25	2 FXD	\$2,500	6.051%	120
369	02/27/23	Union Electric Co	FMB	A2/A		03/15/53	30 FXD	\$500	5.450%	155
370	02/27/23	Southern California Edison Co	FMB	A2/A-		03/01/53	30 FXD	\$450	5.700%	180
371	02/27/23	Southern California Edison Co	FMB	A2/A-		03/01/28	5 FXD	\$750	5.300%	115
372	02/27/23	PPL Electric Utilities Corp	FMB	A1/A+		05/15/53	30 FXD	\$750	5.250%	145
373	02/27/23	PPL Electric Utilities Corp	FMB	A1/A+		05/15/33	10 FXD	\$600	5.000%	120
374	02/27/23	DTE Electric Co	FMB	Aa3/A		04/01/53	30 FXD	\$600	5.400%	148
375	02/27/23	DTE Electric Co	FMB	Aa3/A		04/01/33	10 FXD	\$600	5.200%	130
376	02/27/23	American Electric Power	Senior	Baa2/BBB+		03/01/33	10 FXD	\$850	5.625%	175
377	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/53	30 FXD	\$750	5.300%	140

**Michigan Public Service Commission  
DTE Gas Company  
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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
378	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/33	10 FXD	\$750	5.100%	120
379	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/28	5 FXD	\$1,000	5.050%	90
380	03/01/23	KeySpan Gas East Corp	Senior	Baa1/BBB+		03/06/33	10 FXD	\$500	5.994%	200
381	03/01/23	Eversource Energy	Senior	Baa1/BBB+		03/01/28	5 FXD	\$750	5.450%	123
382	03/01/23	Edison	Jr Sub	Baa3/BB+		06/15/53	VC5 FXD/F	\$500	8.125%	0.1
383	03/02/23	Northwest Natural Gas Co	FMB	A2/AA-		03/15/33	10 FXD	\$100	5.750%	170
384	03/02/23	NRG Energy	Senior Secured	Baa3/BBB-		03/15/33	10 FXD	\$740	7.000%	310
385	03/02/23	Black Hills	Senior	Baa2/BBB+		03/15/28	5 FXD	\$350	5.950%	170
386	03/06/23	San Diego Gas & Electric Co	FMB	A1/A		04/01/53	30 FXD	\$800	5.350%	150
387	03/06/23	Duke Energy Progress LLC	FMB	Aa3/A		03/15/53	30 FXD	\$500	5.350%	148
388	03/06/23	Duke Energy Progress LLC	FMB	Aa3/A		03/15/33	10 FXD	\$500	5.250%	128
389	03/07/23	Eergy Kansas Central Inc	FMB	A2/A		03/15/53	30 FXD	\$400	5.700%	185
390	03/08/23	System Energy Inc	FMB	Baa1/A		04/15/28	5 FXD	\$325	6.000%	255
391	03/09/23	Louisville Gas and Electric Co	FMB	A1/A		04/15/33	10 FXD	\$400	5.450%	155
392	03/09/23	Kentucky Utilities Co	FMB	A1/A		04/15/33	10 FXD	\$400	5.450%	155
393	03/09/23	Idaho Power Co	FMB	A2/A-		03/15/53	30 FXD	\$400	5.500%	170
394	03/09/23	AEP Transmission Co LLC	Senior	A2/A-		03/15/53	30 FXD	\$700	5.400%	157
395	03/20/23	Duke Energy Ohio Inc	FMB	A2/A		04/01/53	30 FXD	\$375	5.650%	200
396	03/20/23	Duke Energy Ohio Inc	FMB	A2/A		04/01/33	10 FXD	\$375	5.250%	175
397	03/20/23	CenterPoint Energy Houston Electric LLC	FMB	A2/A		04/01/53	30 FXD	\$300	5.300%	165
398	03/20/23	CenterPoint Energy Houston Electric LLC	FMB	A2/A		04/01/33	10 FXD	\$600	4.950%	150
399	03/21/23	Southwest Gas Corp	Senior	Baa1/BBB		03/23/28	5 FXD	\$300	5.450%	175
400	03/21/23	Oklahoma Gas and Electric Co	Senior	A3/A-		04/01/53	30 FXD	\$350	5.600%	190
401	03/21/23	Nisource	Senior	Baa2/BBB+		03/30/28	5 FXD	\$750	5.250%	155
402	03/21/23	Indiana Michigan Power Co	Senior	A3/A-		04/01/53	30 FXD	\$500	5.625%	190
403	03/21/23	Duke Energy Indiana LLC	FMB	Aa3/A		04/01/53	30 FXD	\$500	5.400%	170
404	03/23/23	Public Service Electric and Gas Co	Senior	A1/A		03/15/53	30 FXD	\$400	5.125%	142
405	03/23/23	Public Service Electric and Gas Co	Senior	A1/A		03/15/33	10 FXD	\$500	4.650%	122
406	03/27/23	Wisconsin Power and Light Co	Senior	A3/A		04/01/33	10 FXD	\$300	4.950%	145
407	03/27/23	Public Service Co of Colorado	FMB	A1/A		04/01/53	30 FXD	\$850	5.250%	155
408	03/28/23	Virginia Electric and Power Co	Senior	A2/BBB+		04/01/53	30 FXD	\$750	5.450%	175
409	03/28/23	Virginia Electric and Power Co	Senior	A2/BBB+		04/01/33	10 FXD	\$750	5.000%	150
410	03/28/23	Southwestern Electric Power Co	Senior	Baa2/A-		04/01/33	10 FXD	\$350	5.300%	178
411	03/28/23	Pennsylvania Electric Co	Senior	Baa1/BBB		03/30/26	3 FXD	\$300	5.150%	140
412	03/28/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		04/01/53	30 FXD	\$750	6.700%	295
413	03/28/23	Metropolitan Edison Co	Senior	A3/BBB		04/01/28	5 FXD	\$425	5.200%	160
414	04/03/23	Eergy Metro Inc	Senior	A2/A+		04/15/33	10 FXD	\$300	4.950%	153
415	04/04/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/09/26	3 FXD	\$350	4.750%	100
416	05/01/23	Northern States Power Co/MN	FMB	Aa3/A		05/15/53	30 FXD	\$800	5.100%	135
417	05/01/23	Georgia Power Co	Senior	Baa1/BBB+		05/17/33	10 FXD	\$1,000	4.950%	140
418	05/01/23	Georgia Power Co	Senior	Baa1/BBB+		05/16/28	5 FXD	\$750	4.650%	105
419	05/01/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/28	5 FXD	\$300	5.250%	100
420	05/08/23	Oncor Electric Delivery Co LLC	Senior Secured	A2/A+		NA	5 FXD	\$600	--	85
421	05/08/23	Oncor Electric Delivery Co LLC	Senior Secured	A2/A+		NA	30 FXD	\$400	--	145
422	05/08/23	Ohio Power Co	Senior	Baa1/A-		06/01/33	10 FXD	\$400	5.000%	155
423	05/08/23	Eversource Energy	Senior	Baa1/BBB+		05/15/26	3 FXD	\$450	4.750%	105
424	05/08/23	Eversource Energy	Senior	Baa1/BBB+		05/15/33	10 FXD	\$800	5.125%	162.5
425	05/08/23	Eversource Energy	Senior	Baa1/BBB+		03/01/28	5 FXD	\$550	5.450%	130
426	05/08/23	DTE Energy Co	Senior	Baa2/BBB		06/01/28	5 FXD	\$800	4.875%	140
427	05/08/23	Baltimore Gas and Electric Co	Senior	A3/A		06/01/53	30 FXD	\$700	5.400%	158
428	05/09/23	Entergy Mississippi LLC	FMB	A2/A		09/01/33	10 FXD	\$300	5.000%	148
429	05/10/23	Edison	Senior	Baa2/BBB-		11/15/28	6 FXD	\$600	5.250%	190
430	05/15/23	Southern Co/The	Senior	Baa2/BBB		06/15/33	10 FXD	\$750	5.200%	173
431	05/15/23	Southern Co/The	Senior	Baa2/BBB		06/15/28	5 FXD	\$750	4.850%	143

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
432	05/15/23	Puget Sound Energy Inc	FMB	A2/A-		06/01/53	30 FXD	\$400	5.448%	160
433	05/15/23	PacifiCorp	FMB	A1/A+		05/15/54	31 FXD	\$1,200	5.500%	165
434	05/15/23	National Fuel Gas	Senior	Baa3/BBB-		10/01/26	3 FXD	\$300	5.500%	190
435	05/15/23	Florida Power & Light Co	Senior	A1/A		05/15/26	3 FXD	\$500	4.450%	80
436	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/33	10 FXD	\$750	4.800%	130
437	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/30	7 FXD	\$500	4.625%	115
438	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/28	5 FXD	\$750	4.400%	95
439	05/15/23	AES Corp/The	Senior	Baa3/BBB-		06/01/28	5 FXD	\$900	5.400%	200
440	05/17/23	Southern California Gas Co	FMB	Aa2/A+		06/01/33	10 FXD	\$500	5.200%	165
441	05/17/23	Southern California Gas Co	FMB	Aa2/A+		06/01/53	30 FXD	\$500	5.750%	190
442	05/17/23	Southern California Edison Co	FMB	A2/A-		12/01/53	30 FXD	\$700	5.875%	200
443	05/17/23	Southern California Edison Co	FMB	A2/A-		06/01/26	3 FXD	\$400	4.900%	112.5
444	05/17/23	National Rural Utilities Cooperative Finance Corp	Sub	A3/BBB		09/15/53	NC5 FXD/F	\$300	7.125%	0.0715
445	05/17/23	ITC Holdings Corp	Senior	Baa2/BBB+		NA	4 FXD	\$300	--	135
446	05/17/23	ITC Holdings Corp	Senior	Baa2/BBB+		06/01/33	10 FXD	\$500	5.400%	185
447	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/53	30 FXD	\$1,000	6.900%	310
448	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/33	10 FXD	\$1,000	6.250%	270
449	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/28	5 FXD	\$1,000	5.700%	215
450	05/22/23	AEP Texas Inc	Senior	Baa2/A-		06/01/33	10 FXD	\$450	5.400%	172
451	05/23/23	Ameren Illinois Co	FMB	A1/A		06/01/33	10 FXD	\$500	4.950%	127
452	05/30/23	Nisource	Senior	Baa2/BBB+		06/30/33	10 FXD	\$450	5.400%	175
453	05/30/23	Nisource	Senior	Baa2/BBB+		03/30/28	5 FXD	\$300	5.250%	135
454	05/31/23	American Electric Power	Jr Sub	Baa3/BBB+		08/15/25	2 FXD	\$850	5.699%	155
455	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		06/15/33	10 FXD	\$1,150	6.400%	280
456	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/29	5 FXD	\$850	6.100%	240
457	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/53	30 FXD	\$500	6.750%	315
458	06/05/23	Piedmont Natural Gas Co Inc	Senior	A3/BBB+		06/15/33	10 FXD	\$350	5.400%	170
459	06/07/23	National Grid PLC	Senior	Baa2/BBB		06/12/33	10 FXD	\$800	5.809%	202
460	06/07/23	National Grid PLC	Senior	Baa2/BBB		06/12/28	5 FXD	\$700	5.602%	167
461	06/08/23	Palomino Funding Trust I	Senior	Baa3/BBB-		NA	5 FXD	\$450	--	337.5
462	06/08/23	Electricite de France SA	Jr Sub	Ba2/B+		12/31/99	NC10 FXD	\$1,500	9.125%	0.09125
463	06/13/23	Duke Energy Carolinas LLC	FMB	Aa3/A		NA	30 FXD	\$500	4.875%	150
464	06/13/23	Duke Energy Carolinas LLC	Senior	Aa3/A		01/15/33	10 FXD	\$350	4.950%	130
465	06/15/23	PECO Energy Co	FMB	Aa3/A		06/15/33	10 FXD	\$575	4.900%	120
466	06/20/23	Sempra Energy	Senior	Baa2/BBB		08/01/33	10 FXD	\$700	5.500%	180
467	06/20/23	Sempra Energy	Senior	Baa2/BBB		08/01/26	3 FXD	\$550	5.400%	123
468	06/26/23	The Connecticut Light and Power Co	FMB	A1/A+		07/01/33	10 FXD	\$300	4.900%	120
469	06/26/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		09/15/28	5 FXD	\$400	5.050%	110
470	06/27/23	Arizona Public Service Co	Senior	A3/BBB+		08/01/33	10 FXD	\$500	5.550%	180
471	07/17/23	Boston Gas Co	Senior	Baa1/BBB+		07/20/53	30 FXD	\$400	6.119%	218
472	07/31/23	Xcel Energy	Senior	Baa1/BBB+		08/15/33	10 FXD	\$800	5.450%	153
473	07/31/23	Consumers Energy Co	FMB	A1/A		02/15/29	5 FXD	\$500	4.900%	75
474	08/03/23	Public Service Electric and Gas Co	FMB	A1/A		08/01/53	30 FXD	\$400	5.450%	115
475	08/03/23	Public Service Electric and Gas Co	FMB	A1/A		08/01/33	10 FXD	\$500	5.200%	103
476	08/03/23	New York State Electric & Gas Corp	Senior	Baa1/A-		08/15/33	10 FXD	\$400	5.850%	168
477	08/03/23	New York State Electric & Gas Corp	Senior	Baa1/A-		08/15/28	5 FXD	\$350	5.650%	140
478	08/07/23	San Diego Gas & Electric Co	FMB	A1/A		08/15/28	5 FXD	\$600	4.950%	90
479	08/08/23	Virginia Electric and Power Co	Senior	A2/BBB+		08/15/53	30 FXD	\$600	5.700%	150
480	08/08/23	Virginia Electric and Power Co	Senior	A2/BBB+		08/15/33	10 FXD	\$400	5.300%	128
481	08/08/23	Entergy Texas Inc	FMB	A3/A		09/01/53	30 FXD	\$350	5.800%	160
482	08/08/23	Centerpoint Energy	Senior	Baa2/BBB		08/10/26	3 FXD	\$400	5.250%	90
483	08/14/23	Entergy Arkansas LLC	FMB	A2/A		09/15/33	10 FXD	\$300	5.300%	120
484	08/15/23	Alexander Funding Trust II	Secured	Baa3/BBB-		NA	5 FXD	\$500	--	310
485	09/05/23	WEC Energy Group Inc	Senior	Baa1/BBB+		NA	3 FXD	\$600	--	93

Michigan Public Service Commission  
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Recent Utility Corporate Bond Issuances

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
486	09/05/23	The Southern Co	Senior	Baa2/BBB		03/15/34	10 FXD	\$700	5.700%	148
487	09/05/23	The Southern Co	Senior	Baa2/BBB		03/15/29	5 FXD	\$600	5.500%	113
488	09/05/23	MidAmerican Energy Co	FMB	Aa2/A+		09/15/54	31 FXD	\$1,000	5.850%	147
489	09/05/23	MidAmerican Energy Co	FMB	Aa2/A+		01/15/34	10 FXD	\$350	5.350%	110
490	09/05/23	Duke Energy	Senior	Baa2/BBB		09/15/53	30 FXD	\$750	6.100%	173
491	09/05/23	Duke Energy	Senior	Baa2/BBB		09/15/33	10 FXD	\$600	5.750%	150
492	09/06/23	Idaho Power Co	FMB	A2/A-		04/01/54	31 FXD	\$350	5.800%	150
493	09/06/23	Black Hills	Senior	Baa2/BBB+		05/15/34	10 FXD	\$450	6.150%	190
494	09/11/23	Southern Co Gas Capital Corp	Senior	Baa1/BBB+		09/15/33	10 FXD	\$500	5.750%	148
495	09/11/23	Nevada Power Co	Senior	A2/A+		03/15/54	30 FXD	\$500	6.000%	163
496	09/12/23	The Brooklyn Union Gas Co	Senior	Baa2/BBB+		NA	10 FXD	\$400	--	212
497	09/12/23	Monongahela Power Co	FMB	A3/A-		02/15/34	10 FXD	\$400	5.850%	160
498	09/13/23	Sierra Pacific Power Co	Senior	A2/A+		03/15/54	30 FXD	\$400	5.900%	160
499	09/13/23	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/28	5 FXD	\$500	5.200%	85

Michigan Public Service Commission  
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Peer Equity Ratio

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Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	<b>Year-end 2022</b>						
2	<b>In Thousands of USD</b>						
		<b>Long-Term Debt</b>	<b>Current Long-Term Debt</b>	<b>Total Long-Term Debt</b>	<b>Equity</b>	<b>Total Permanent Capitalization</b>	<b>Equity/Permanent Capitalization</b>
3	<i>Company Name</i>						
4	<b><u>Atmos Energy Corporation</u></b>						
5	Atmos Energy Corporation	5,710,254	2,200,000	7,910,254	9,419,091	17,329,345	54.4%
6							
7	<b><u>Chesapeake Utilities Corporation</u></b>						
8	Chesapeake Utilities Corporation	578,388	21,483	599,871	832,801	1,432,672	58.1%
9							
10	<b><u>New Jersey Resources</u></b>						
11	New Jersey Natural Gas Company	1,283,317	-	1,283,317	1,608,422	2,891,739	55.6%
12							
13	<b><u>Nisource Inc.</u></b>						
14	Columbia Gas of Maryland, Incorporated	105,355	-	105,355	113,951	219,306	52.0%
15	Columbia Gas of Ohio, Inc.	2,102,926	-	2,102,926	2,160,219	4,263,145	50.7%
16	Columbia Gas of Pennsylvania, Inc.	1,135,515	-	1,135,515	1,483,215	2,618,730	56.6%
17	Northern Indiana Public Service Company	2,923,936	-	2,923,936	3,863,257	6,787,193	56.9%
18							
19	<b><u>Northwest Natural Gas Company</u></b>						
20	Northwest Natural Gas Company	1,035,935	89,942	1,125,877	1,191,082	2,316,959	51.4%
21							
22	<b><u>ONE Gas, Inc.</u></b>						
23	ONE Gas	2,661,743	20,716	2,682,459	2,584,426	5,266,885	49.1%
24	Texas Gas Service Company, Inc.	723,850	-	723,850	1,004,983	1,728,833	58.1%
25							
26	<b><u>Southwest Gas Holdings, Inc.</u></b>						
27	Southwest Gas Corporation	3,251,296	-	3,251,296	2,569,175	5,820,471	44.1%
28							
29	<b><u>Spire Inc.</u></b>						
30	Spire Alabama Inc	571,500	-	571,500	906,000	1,477,500	61.3%
31	Spire Missouri Inc	1,387,700	250,000	1,637,700	1,745,400	3,383,100	51.6%
32							
33						<b>Average</b>	<b>53.8%</b>
34							
35	<b><u>DTE Energy Company</u></b>						
36	DTE Gas	2,240,000	75,000	2,315,000	2,402,000	4,717,000	50.9%

source: S&P Global Market Intelligence

**Michigan Public Service Commission  
DTE Gas Company  
Current and Historical Credit Ratings**

Case No.: U-21291  
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	(a)	(b)	(c)	(d)	(e)	(f)	(g)
<u>Line</u>							
1	<b>Standard &amp; Poor's</b>						
2		<b>Current</b>	<b>Ratings at Year End</b>				
3		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
4	<b>DTE Gas</b>						
5	Senior Secured Debt	A	A	A	A	A	A
6	Commercial Paper	A-2	A-2	A-2	A-2	A-2	A-2
7	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
8							
9	<b>DTE Energy</b>						
10	Senior Unsecured Debt	BBB	BBB	BBB	BBB	BBB	BBB
11	Commercial Paper	A-2	A-2	A-2	A-2	A-2	A-2
12	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
13							
14							
15							
16	<b>Moody's Investors Service</b>						
17		<b>Current</b>	<b>Ratings at Year End</b>				
18		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
19	<b>DTE Gas</b>						
20	Senior Secured Debt	A1	A1	A1	A1	A1	Aa3
21	Commercial Paper	P-2	P-2	P-2	P-2	P-2	P-1
22	Outlook	Stable	Stable	Stable	Stable	Stable	Negative
23							
24	<b>DTE Energy</b>						
25	Senior Unsecured Debt	Baa2	Baa2	Baa2	Baa2	Baa2	Baa1
26	Commercial Paper	P-2	P-2	P-2	P-2	P-2	P-2
27	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
28							
29							
30							
31	<b>Fitch Ratings</b>						
32		<b>Current</b>	<b>Ratings at Year End</b>				
33		<b>Ratings</b>	<b>2022</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>	<b>2018</b>
34	<b>DTE Gas</b>						
35	Senior Secured Debt	A	A	A	A	A	A
36	Commercial Paper	F2	F2	F2	F2	F2	F2
37	Outlook	Stable	Stable	Stable	Stable	Stable	Stable
38							
39	<b>DTE Energy</b>						
40	Senior Unsecured Debt	BBB	BBB	BBB	BBB	BBB+	BBB+
41	Commercial Paper	F2	F2	F2	F2	F2	F2
42	Outlook	Stable	Stable	Stable	Stable	Negative	Negative

Michigan Public Service Commission  
DTE Gas Company  
Recent Utility Corporate Bond Issuances

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Line No.	(a) Offer Date	(b) Issuer	(c) Secured (?)	(d) Credit Ratings Moody's	(e) S&P	(f) Maturity	(g) Tenor	(h) Amount (\$MM)	(i) Coupon	(j) Spread
1	01/05/21	Southern California Edison Co	FMB	A3	A-	06/01/30	9 FXD	\$150	2.250%	85
2	01/05/21	Southern California Edison Co	FMB	A3	A-	02/01/51	30 FXD	\$750	2.950%	127
3	01/05/21	Ohio Power Co	Senior	A3	A-	01/15/31	10 FXD	\$450	1.625%	68
4	01/05/21	Southern Power Co	Senior	Baa1	BBB+	01/15/26	5 FXD	\$400	0.900%	57
5	02/01/21	National Rural Utilities Cooperative Finance Corp	Senior	A2	A	02/08/24	3 FXD	\$500	0.350%	20
6	02/09/21	National Fuel Gas Co	Senior	Baa3	BBB-	03/01/31	10 FXD	\$500	2.950%	180
7	02/17/21	NextEra Energy Capital Holdings Inc.	Senior	Baa1	BBB+	02/22/23	2NC1 FRN	\$1,650	0.000%	27
8	02/22/21	Public Service Company of Colorado	FMB	A1	A	06/15/31	10 FXD	\$750	1.875%	58
9	02/22/21	Georgia Power Co.	Senior	Baa2	A-	03/15/51	30 FXD	\$750	3.250%	107
10	02/22/21	National Rural Utilities Cooperative Finance Corp	Senior	A2	A	06/15/26	5 FXD	\$600	1.000%	45
11	02/23/21	Southern Co	Senior	Baa2	BBB+	02/26/24	3 FXD	\$600	0.600%	38
12	02/23/21	Southern Co	Senior	Baa2	BBB+	03/15/28	7 FXD	\$400	1.750%	80
13	02/23/21	Southwestern Public Service Co	Senior	A3	A	05/01/50	29 FXD	\$250	3.150%	95
14	02/24/21	Ameren Corp	Senior	Baa1	BBB	03/15/28	7 FXD	\$450	1.750%	75
15	02/26/21	Centerpoint Energy Respurces Corp	Senior	A3	BBB+	03/02/23	2NC1 FXC	\$700	0.700%	60
16	02/26/21	Centerpoint Energy Respurces Corp	Senior	A3	BBB+	03/02/23	2NC1 FRN	\$1,000	0.000%	50
17	03/01/21	PECO Energy Co	FMB	Aa3	A	03/15/51	30 FXD	\$375	3.050%	82
18	03/02/21	Commonwealth Edison Inc.	FMB	A1	A	03/15/51	30 FXD	\$700	3.125%	90
19	03/02/21	Entergy	Senior	Baa2	BBB	06/15/28	7 FXD	\$650	1.900%	87
20	03/02/21	Entergy	Senior	Baa2	BBB	06/15/31	10 FXD	\$650	2.400%	107
21	03/02/21	Public Service Electric & Gas Co.	Senior	Aa3	A	03/15/26	5 FXD	\$450	0.950%	32
22	03/02/21	Public Service Electric & Gas Co.	Senior	Aa3	A	03/01/51	30 FXD	\$450	3.000%	77
23	03/03/21	Atlantic City Electric	FMB	A2	A	03/15/31	10 FXD	\$350	2.300%	83
24	03/08/21	Eversource Energy	Senior	Baa1	BBB+	03/15/31	10 FXD	\$350	2.550%	100
25	03/08/21	One Gas	Senior	A3	BBB+	03/11/23	2NC1 FXC	\$1,000	0.850%	70
26	03/08/21	One Gas	Senior	A3	BBB+	03/11/23	2NC1 FRN	\$800	0.000%	61
27	03/08/21	One Gas	Senior	A3	BBB+	03/11/24	3NC1 FXC	\$700	1.100%	80
28	03/08/21	Piedmont Natural Gas Co Inc	Senior	A3	BBB+	03/15/31	10 FXD	\$350	2.500%	95
29	03/08/21	Southwestern Electric Power Co	Senior	Baa2	A-	03/15/26	5 FXD	\$500	1.650%	80
30	03/08/21	CenterPoint Energy Houston Electric LLC	Senior Secured	A2	A	04/01/31	10 FXD	\$400	2.350%	80
31	03/08/21	CenterPoint Energy Houston Electric LLC	Senior Secured	A2	A	04/01/51	30 FXD	\$700	3.350%	105
32	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	03/10/23	2NC1 FXC	\$1,500	1.367%	120
33	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	06/01/31	10 FXD	\$450	3.250%	167
34	03/08/21	Pacific Gas and Electric Co	Senior Secured	Baa3	BBB-	06/01/41	20 FXD	\$450	4.200%	200
35	03/09/21	Appalachian Power Co	Senior	Baa1	A-	04/01/31	10 FXD	\$400	2.700%	120
36	03/09/21	Entergy Mississippi LLC	Senior Secured	A2	A	06/01/51	30 FXD	\$200	3.500%	115
37	03/15/21	NextEra Energy	Senior	Baa1	BBB+	03/01/23	2 FXD	\$2,000	0.650%	50
38	03/15/21	NextEra Energy	Senior	Baa1	BBB+	03/01/23	2 FRN	\$500	0.000%	54
39	03/15/21	Tampa Electric Co.	Senior	A3	BBB+	03/15/31	10 FXD	\$400	2.400%	83
40	03/15/21	Tampa Electric Co.	Senior	A3	BBB+	03/15/51	30 FXD	\$400	3.450%	108
41	03/16/21	WEC Energy Group Inc	Senior	Baa1	BBB+	03/15/24	3 FXD	\$600	0.800%	48
42	03/17/21	FirstEnergy Transmission LLC	Senior	Baa2	BB+	09/15/28	7 FXD	\$500	2.866%	0.02870
43	03/22/21	DTE Electric Company	FMB	Aa3	A	04/01/28	7 FXD	\$575	1.900%	58
44	03/22/21	DTE Electric Company	FMB	Aa3	A	04/01/51	30 FXD	\$425	3.250%	90
45	03/23/21	Northern States Power Co/MN	FMB	Aa3	A	04/01/31	10 FXD	\$425	2.250%	65
46	03/23/21	Northern States Power Co/MN	FMB	Aa3	A	04/01/52	31 FXD	\$425	3.200%	85
47	03/24/21	Entergy Arkansas LLC	FMB	A2	A	06/15/52	31 FXD	\$400	3.350%	105
48	03/24/21	Southern California Edison Co	FMB	A3	A-	04/03/23	2 FXD	\$350	0.700%	60
49	03/24/21	Southern California Edison Co	FMB	A3	A-	04/03/23	2 FRN	\$400	0.000%	64
50	03/24/21	Southern California Edison Co	FMB	A3	A-	04/01/24	3NC2 FXC	\$700	1.100%	80
51	03/24/21	Dominion Energy	Senior	Baa2	BBB	04/15/26	5 FXD	\$600	1.450%	65
52	03/24/21	Dominion Energy	Senior	Baa2	BBB	04/15/41	20 FXD	\$500	3.300%	110
53	03/24/21	Southern California Edison Co	Senior	A3	A-	04/01/24	3NC2 FRN	\$400	0.000%	83

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
54	03/29/21	Duke Energy Carolinas LLC	FMB	Aa3	A	04/15/31	10 FXD	\$550	2.550%	85
55	03/29/21	Duke Energy Carolinas LLC	FMB	Aa3	A	04/15/51	30 FXD	\$450	3.450%	105
56	04/07/21	Monongahela Power Co	FMB	A3	BBB	05/15/27	6 FXD	\$200	3.550%	120
57	04/07/21	Northern Natural Gas Co	Senior	A2	A	10/16/51	31 FXD	\$550	3.400%	110
58	04/15/21	Essential Utilities Inc	Senior	Baa2	A-	05/01/31	10 FXD	\$400	2.400%	88
59	04/27/21	Indiana Michigan Power Co	Senior	A3	A-	05/01/51	30 FXD	\$450	3.250%	100
60	04/29/21	Toledo Edison Co/The	FMB	A2	BBB	05/01/28	7 FXD	\$150	2.650%	137.5
61	05/04/21	AEP Texas Inc	Senior	Baa2	A-	05/15/51	30 FXD	\$450	3.450%	120
62	05/05/21	Florida Power & Light Co	Senior	A1	A	05/10/23	2NC1 FRN	\$1,000	0.000%	25
63	05/06/21	Tucson Electric Power Co	Senior	A3	A-	05/01/51	30 FXD	\$325	3.250%	105
64	05/10/21	American Water Capital Corp	Senior	Baa1	A	06/01/31	10 FXD	\$550	2.300%	73
65	05/10/21	American Water Capital Corp	Senior	Baa1	A	06/01/51	30 FXD	\$550	3.250%	93
66	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	05/13/24	3NC1 FRN	\$700	0.000%	65
67	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	06/01/26	5 FXD	\$500	1.450%	70
68	05/11/21	CenterPoint Energy Inc (CNP)	Senior	Baa2	BBB	06/01/31	10 FXD	\$500	2.650%	105
69	05/13/21	Spire Missouri Inc	Senior	A1	A	06/01/51	30 FXD	\$305	3.300%	90
70	05/20/21	Mid-Atlantic Interstate Transmission LLC	Senior	A3	BB+	05/15/28	7 FXD	\$150	4.100%	125
71	05/24/21	NSTAR Electric Co	Senior	A1	A	06/01/51	30 FXD	\$300	3.100%	83
72	05/24/21	OGE Energy Corp	Senior	Baa1	BBB+	05/26/23	2NC1 FXL	\$500	0.703%	55
73	05/24/21	Oklahoma Gas and Electric Co	Senior	A3	A-	05/26/23	2NC1 FXL	\$500	0.553%	40
74	05/25/21	Emera US Finance LP	Senior	Baa3	BBB-	06/15/24	3 FXD	\$300	0.833%	53
75	05/25/21	Emera US Finance LP	Senior	Baa3	BBB-	06/15/31	10 FXD	\$450	2.639%	108
76	06/01/21	Pacific Gas and Electric Co	FMB	Baa3	BBB-	06/15/28	7 FXD	\$800	3.000%	180
77	06/01/21	Public Service Co of New Hampshire	FMB	A1	A+	06/15/31	10 FXD	\$350	2.200%	62
78	06/02/21	NextEra Energy Capital Holdings Inc	Senior	Baa1	BBB+	06/15/28	7 FXD	\$1,500	1.900%	65
79	06/03/21	Puget Energy Inc	Secured	Baa3	BBB-	06/15/28	7 FXD	\$500	2.379%	108
80	06/03/21	Consolidated Edison Co of New York Inc	Senior	Baa1	A-	06/15/31	10 FXD	\$750	2.400%	80
81	06/03/21	Consolidated Edison Co of New York Inc	Senior	Baa1	A-	06/15/61	40 FXD	\$750	3.600%	130
82	06/07/21	Alabama Power Co	Senior	A1	A	07/15/51	30 FXD	\$600	3.125%	87.5
83	06/07/21	Baltimore Gas and Electric Co	Senior	A3	A	06/15/31	10 FXD	\$600	2.250%	70
84	06/07/21	Duke Energy	Senior	Baa2	BBB	06/10/23	2 FRN	\$500	0.000%	25
85	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/31	10 FXD	\$1,000	2.550%	100
86	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/41	20 FXD	\$750	3.300%	115
87	06/07/21	Duke Energy	Senior	Baa2	BBB	06/15/51	30 FXD	\$750	3.500%	125
88	06/08/21	Jersey Central Power & Light Co	Senior	A3	BB+	03/01/32	11 FXD	\$500	2.750%	125
89	06/08/21	Wisconsin Electric Power Co	Senior	A2	A-	06/15/28	7 FXD	\$300	1.700%	50
90	06/09/21	Southern California Edison Co	FMB	A3	A-	06/01/31	10 FXD	\$450	2.500%	105
91	06/09/21	Southern California Edison Co	FMB	A3	A-	06/13/22	1 FRN	\$475	0.000%	35
92	06/09/21	Southern California Edison Co	FMB	A3	A-	06/01/51	30 FXD	\$450	3.650%	148
93	06/09/21	Union Electric Co	FMB	A2	A	03/15/32	11 FXD	\$525	2.150%	67
94	06/21/21	Connecticut Light and Power Co/The	FMB	A1	A+	07/01/31	10 FXD	\$425	2.050%	60
95	06/21/21	PPL Electric Utilities Corp	FMB	A1	A	06/24/24	3NC1 FRN	\$650	0.000%	33
96	06/22/21	Ameren Illinois Co	FMB	A1	A	06/15/23	2 FXD	\$100	0.375%	15
97	06/22/21	Ameren Illinois Co	FMB	A1	A	06/15/51	30 FXD	\$350	2.900%	80
98	06/22/21	Duquesne Light Holdings Inc	Senior	Baa3	BBB-	01/07/32	11 FXD	\$400	2.775%	130
99	06/24/21	Mississippi Power Co	Senior	Baa1	A-	06/28/24	3 FRN	\$200	0.000%	30
100	06/24/21	Mississippi Power Co	Senior	Baa1	A-	07/30/51	30 FXD	\$325	3.100%	105
101	07/07/21	PacifiCorp	FMB	A1	A+	06/15/52	31 FXD	\$750	2.900%	98
102	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/26	5 FXD	\$1,250	1.375%	70
103	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/28	7 FXD	\$1,000	1.875%	85
104	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/31	10 FXD	\$1,000	2.250%	100
105	07/07/21	Enel Finance International NV	Senior	Baa1	BBB+	07/12/41	20 FXD	\$750	2.875%	110
106	07/20/21	MidAmerican Energy Co	Secured	A2	A+	08/01/52	31 FXD	\$500	2.700%	85
107	08/02/21	Consumers Energy	FMB	A1	A	08/15/52	31 FXD	\$300	2.650%	78

**Michigan Public Service Commission  
DTE Gas Company  
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Line No.	(a) Offer Date	(b) Issuer	(c) Secured (?)	(d) Credit Ratings Moody's	(e) S&P	(f) Maturity	(g) Tenor	(h) Amount (\$MM)	(i) Coupon	(j) Spread
108	08/02/21	AEP Transmission Co LLC	Senior	A2	A-	08/15/51	30 FXD	\$450	2.750%	90
109	08/05/21	Commonwealth Edison Co.	FMB	A1	A	09/01/51	30 FXD	\$450	2.750%	87
110	08/05/21	Southern California Edison Co.	FMB	A3	A-	08/01/23	2 FXD	\$400	0.700%	50
111	08/05/21	Southern California Edison Co.	FMB	A3	BBB+	08/01/24	3 FXD	\$450	0.975%	60
112	08/09/21	Duke Energy Progress LLC	FMB	Aa3	A	08/15/31	10 FXD	\$650	2.000%	70
113	08/09/21	Duke Energy Progress LLC	FMB	Aa3	A	08/15/51	30 FXD	\$450	2.900%	93
114	08/09/21	San Diego Gas & Electric Co	FMB	A1	A	08/15/51	30 FXD	\$750	2.950%	100
115	08/10/21	Dominion Energy	Senior	Baa2	BBB	08/15/31	10 FXD	\$1,000	2.250%	92
116	08/10/21	Eversource Energy	Senior	Baa1	BBB+	08/15/23	2 FRN	\$350	0.000%	25
117	08/10/21	Eversource Energy	Senior	Baa1	BBB+	08/15/26	5 FXD	\$300	1.400%	60
118	08/10/21	NSTAR Electric Co	Senior	A1	A	08/15/31	10 FXD	\$300	1.950%	67
119	08/11/21	Arizona Public Service Co	Senior	A2	A-	12/15/31	10 FXD	\$450	2.200%	87.5
120	08/11/21	Entergy Texas Inc	Senior	Baa1	A	09/01/26	5 FXD	\$130	1.500%	75
121	08/11/21	Public Service Co of Oklahoma	Senior	Baa1	A-	08/15/31	10 FXD	\$400	2.200%	90
122	08/11/21	Public Service Co of Oklahoma	Senior	Baa1	A-	08/15/51	30 FXD	\$400	3.150%	115
123	08/17/21	Public Service Electric and Gas Co	Senior	Aa3	A	08/15/31	10 FXD	\$425	1.900%	68
124	08/18/21	Southwest Gas Corp	Senior	Baa1	A-	08/15/51	30 FXD	\$300	3.180%	128
125	08/23/21	Black Hills Corp	Senior	Baa2	BBB+	08/23/24	3NC1 FXL	\$600	1.037%	60
126	09/07/21	PECO Energy Co	FMB	Aa3	A	09/15/51	30 FXD	\$375	2.850%	88
127	09/07/21	Southern Co Gas Capital Corp	Senior	Baa1	A-	09/30/51	30 FXD	\$450	3.150%	123
128	09/08/21	Cleco Power	Senior	A3	BBB+	06/15/23	2 FRN	\$325	0.000%	50
129	09/08/21	Puget Sound Energy	Senior	A2	A-	09/15/51	30 FXD	\$450	2.893%	95
130	09/09/21	Ohio Power	Senior	A3	A-	10/01/51	30 FXD	\$600	2.900%	103
131	09/13/21	Wisconsin Power and Light	Senior	A3	A	09/16/31	10 FXD	\$300	1.950%	63
132	09/14/21	The Southern Co	Jr Sub	Baa3/BBB-		NA	1C6 FXD/F	\$1,250	1.875%	0.01875
133	09/21/21	Atmos Energy Corp	Senior	A1/A-		02/15/52	30 FXD	\$600	2.850%	103
134	09/21/21	New York State Electric & Gas Corp	Senior	Baa1/A-		10/01/31	10 FXD	\$350	2.150%	85
135	09/23/21	Duke Energy Corp	Jr Sub	Baa3/BBB-		01/15/82	1C5 FXD/F	\$500	3.250%	0.0325
136	09/28/21	Entergy Louisiana LLC	Secured	A2/A		10/01/24	3NC1 FXL	\$1,000	0.950%	45
137	10/18/21	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/18/24	3 FXD	\$400	1.000%	30
138	10/18/21	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/18/24	3 FRN	\$350	--	33
139	10/27/21	NextEra Energy Capital	Senior	Baa1/BBB+		11/03/23	2NC1 FRN	\$1,300	--	40
140	10/29/21	Xcel Energy Inc	Senior	Baa1/BBB+		03/15/27	5 FXD	\$500	1.750%	62
141	10/29/21	Xcel Energy Inc	Senior	Baa1/BBB+		11/15/31	10 FXD	\$300	2.350%	82
142	11/01/21	Southwestern Electric Power	Senior	Baa2/BBB+		11/01/51	30 FXD	\$650	3.250%	130
143	11/04/21	Edison International	Pref	Ba2/BB+		12/31/99	24 FXD/F	\$750	3.901%	0.05
144	11/04/21	Public Service Enterprise Group Inc	Senior	Baa2/BBB		11/08/23	2NC1 FXL	\$750	0.841%	43
145	11/04/21	Public Service Enterprise Group Inc	Senior	Baa2/BBB		11/15/31	10 FXD	\$750	2.450%	95
146	11/05/21	Southern Co / The	Senior	Baa2/BBB		NA	2NC1 FRN	\$600	--	37
147	11/08/21	Northwest Natural Gas	FMB	A2/AA-		12/01/51	30 FXD	\$130	3.078%	120
148	11/10/21	American Electric Power	Jr Sub	Baa3/BB+/BBB		02/15/62	1C5 FXD/F	\$750	3.875%	0.03875
149	11/10/21	Entergy Mississippi Llc	FMB	A2/A/A		12/01/33	12 FXD	\$200	2.550%	105
150	11/10/21	Oncor Electric Delivery	Senior	A2/A+		NA	10 FXD	\$300	--	58
151	11/10/21	Oncor Electric Delivery	FMB	A2/A+		11/15/51	30 FXD	\$500	2.700%	88
152	11/10/21	Pacific Gas & Electric	FMB	Baa3/BBB-		11/15/22	1 FRN	\$300	--	115
153	11/10/21	Pacific Gas and Electric Co	FMB	Baa3/BBB-		06/01/31	10 FXD	\$550	3.250%	158
154	11/10/21	Pacific Gas and Electric Co	FMB	Baa3/BBB-		11/15/23	2NC1 FXL	\$900	1.700%	125
155	11/10/21	Wisconsin Public Service	Senior	A2/A-		12/01/51	30 FXD	\$450	2.850%	95
156	11/15/21	Alabama Power Co	Senior	A1/A-		03/15/52	30 FXD	\$700	3.000%	100
157	11/15/21	Ameren Corp	Senior	Baa1/BBB		03/15/27	5 FXD	\$500	1.950%	70
158	11/15/21	DTE Energy Co	Jr Sub	Baa3/BBB-		12/01/81	10NC5 FXL	\$280	4.375%	0.04375
159	11/15/21	Sempra Energy	Jr Sub	Baa3/BBB-		04/01/52	1C5 FXD/F	\$1,000	4.125%	0.04125
160	11/15/21	Virginia Electric and Power	Senior	A2/BBB+		11/15/31	10 FXD	\$500	2.300%	70
161	11/15/21	Virginia Electric and Power	Senior	A2/BBB+		11/15/51	30 FXD	\$500	2.950%	95

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
162	11/16/21	Florida Light & Power Co	FMB	Aa2/A+		12/04/51	30 FXD	\$1,200	2.875%	85
163	11/16/21	Interstate Power and Light Co	Senior	Baa1/A-		11/30/51	30 FXD	\$300	3.100%	110
164	11/18/21	Dominion Energy South Carolina Inc	FMB	A3/A		12/01/31	10 FXD	\$300	2.300%	72
165	11/29/21	American Transmission Systems Inc	Senior	A3/BBB		01/15/32	10 FXD	\$600	2.650%	115
166	11/29/21	Consolidated Edison Co of New York	Senior	Baa1/A-		06/15/31	10 FXD	\$150	2.400%	87
167	11/29/21	Consolidated Edison Co of New York	Senior	Baa1/A-		12/01/51	30 FXD	\$600	3.200%	132
168	11/29/21	Duke Energy Florida LLC	FMB	A1/A		12/15/31	10 FXD	\$650	2.400%	90
169	11/29/21	Duke Energy Florida LLC	FMB	A1/A		12/15/51	30 FXD	\$500	3.000%	115
170	12/01/21	Dominion Energy Inc	Jr Sub	Ba1/BBB-		12/31/99	10C5 FXD	\$750	4.350%	0.0435
171	12/01/21	Southern California Edison Co	FMB	A3/A-		12/02/22	1 FRN	\$550	--	47
172	12/01/21	Spire Missouri Inc	FMB	A1/A		12/02/24	3NC1 FRN	\$300	--	50
173	12/06/21	WEC Energy	Senior	Baa1/BBB+		12/15/28	7 FXD	\$500	2.200%	85
174	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/27	5 FXD	\$1,000	1.875%	62
175	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/32	10 FXD	\$1,000	2.440%	92
176	12/08/21	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		01/15/52	30 FXD	\$500	3.000%	112
177	12/09/21	NextEra Energy Capital Holdings Inc	Jr Sub	Baa2/BBB		03/15/82	1C5 FXD/F	\$600	3.800%	0.038
178	01/04/22	American Electric Power Co	Jr Sub	Baa3/BBB+		03/15/24	2 FXD	\$805	2.031%	85
179	01/05/22	Niagara Mohawk Power Corp	Senior	Baa1/BBB+		01/10/32	10 FXD	\$400	2.759%	105
180	01/05/22	Virginia Electric and Power Co	Senior	A2/BBB+		11/15/51	30 FXD	\$400	2.950%	98
181	01/05/22	Virginia Electric and Power Co	Senior	A2/BBB+		03/30/32	10 FXD	\$600	2.400%	70
182	01/06/22	Sempra Infrastructure Partners LP	Senior	Baa3/BBB-		NA	10 FXD	\$400	--	165
183	01/10/22	Southern California Edison Co	FMB	A3/A-		02/01/32	10 FXD	\$500	2.750%	98
184	01/10/22	Southern California Edison Co	FMB	A3/A-		02/01/52	30 FXD	\$700	3.450%	135
185	01/11/22	Atmos Energy Corp	Senior	A1/A-		09/15/29	10 FXD	\$200	2.625%	68
186	01/12/22	Algonquin Power & Utilities Corp	Jr Sub	NR/BB+		01/18/82	1C5 FXD/F	\$750	4.750%	0.0475
187	01/12/22	Florida Power & Light Co	FMB	Aa2/A+		02/03/32	10 FXD	\$1,500	2.450%	73
188	01/12/22	Florida Power & Light Co	Senior	Aa2/A+		01/12/24	2NC0 FRN	\$1,000	--	38
189	01/12/22	KeySpan Gas East Corp	Senior	Baa1/BBB+		01/18/52	30 FXD	\$400	3.586%	150
190	01/31/22	National Rural Utilities Cooperative Finance Corp	Secured	A1/A-		04/15/32	10 FXD	\$500	2.750%	100
191	01/31/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		08/07/23	2 FRN	\$400	--	40
192	01/31/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		02/07/25	3 FXD	\$600	1.875%	50
193	02/02/22	Fells Point Funding Trust / Constellation Energy	Senior	Baa2/BBB-		NA	5 FXD	\$1,000	--	145
194	02/15/22	Tuscon Electric Power Co	Senior	A3/A-		05/15/32	10 FXD	\$325	3.250%	125
195	02/16/22	DTE Electric Co	Secured	Aa3/A		03/01/32	10 FXD	\$500	3.000%	100
196	02/16/22	DTE Electric Co	Secured	Aa3/A		03/01/52	30 FXD	\$400	3.650%	130
197	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		02/16/24	2NC1 FXL	\$1,000	3.250%	175
198	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/29	7 FXD	\$400	4.200%	220
199	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/32	10 FXD	\$450	4.400%	240
200	02/16/22	Pacific Gas & Electric Co	FMB	Baaa3/BBB-		03/01/52	30 FXD	\$550	5.250%	290
201	02/22/22	Eversource Energy	Senior	Baa1/BBB+		03/01/32	10 FXD	\$650	3.375%	145
202	02/22/22	Eversource Energy	Senior	Baa1/BBB+		03/01/27	5 FXD	\$650	2.900%	105
203	02/23/22	Alliant Energy Finance LLC	Senior	Baa2/BBB+		03/01/32	10 FXD	\$350	3.600%	165
204	02/23/22	CenterPoint Energy Houston Electric LLC	FMB	A2/A		03/01/32	10 FXD	\$300	3.000%	107
205	02/23/22	CenterPoint Energy Houston Electric LLC	FMB	A2/A		03/01/52	30 FXD	\$500	3.600%	137
206	03/01/22	Duke Energy Carolinas	FMB	Aa3/A		03/15/32	10 FXD	\$500	2.850%	115
207	03/01/22	Duke Energy Carolinas	FMB	Aa3/A		03/15/52	30 FXD	\$650	3.550%	145
208	03/02/22	Alabama Power Co	Senior	A1/A-		03/15/32	10 FXD	\$700	3.050%	120
209	03/02/22	Entergy Arkansas	FMB	A2/A-		04/01/49	30 FXD	\$200	4.200%	160
210	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/27	5 FXD	\$650	2.750%	100
211	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/32	10 FXD	\$650	3.350%	145
212	03/02/22	Exelon Corp	Senior	Baa2/BBB		03/15/52	30 FXD	\$700	4.100%	180
213	03/07/22	San Diego Gas & Electric Co	FMB	A1/A		03/15/32	10 FXD	\$500	3.000%	128
214	03/07/22	San Diego Gas & Electric Co	FMB	A1/A		03/15/52	30 FXD	\$500	3.700%	155
215	03/08/22	Avista Corp	FMB	A3/A-		04/01/52	30 FXD	\$400	4.000%	175

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216	03/08/22	Commonwealth Edison Co	FMB	A1/A	03/15/52	30 FXD	\$450	3.850%	160
217	03/08/22	Commonwealth Edison Co	FMB	A1/A	03/15/32	10 FXD	\$300	3.150%	130
218	03/08/22	Southern California Gas Co	Senior	A2/A	04/15/27	5 FXD	\$700	2.950%	125
219	03/09/22	Public Service Electric and Gas Co	Secured	A1/A	03/15/32	10 FXD	\$500	3.100%	120
220	03/10/22	Evergy Missouri West Inc	FMB	A3/A	03/15/32	10 FXD	\$250	3.750%	175
221	03/11/22	Boston Gas Company	Senior	Baa1/BBB+	03/16/32	10 FXD	\$400	3.757%	175
222	03/14/22	Duke Energy Progress LLC	FMB	Aa3/A	04/01/32	10 FXD	\$500	3.400%	130
223	03/14/22	Duke Energy Progress LLC	FMB	Aa3/A	04/01/52	30 FXD	\$400	4.000%	155
224	03/14/22	Puget Energy Inc	Secured	Baa3/BBB-	03/15/32	10 FXD	\$450	4.224%	210
225	03/17/22	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+	03/21/24	2NC1 FXL	\$1,100	2.940%	100
226	03/17/22	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+	03/21/24	2NC1 FRN	\$400	--	102
227	03/17/22	Southwest Gas Corp	Senior	Baa1/BBB	03/15/32	10 FXD	\$600	4.050%	190
228	03/21/22	Sempra Energy	Senior	Baa2/BBB	04/01/25	3 FXD	\$750	3.300%	102
229	03/21/22	Sempra Energy	Senior	Baa2/BBB	04/01/29	7 FXD	\$500	3.700%	140
230	03/21/22	Union Electric Co	FMB	A2/A	04/01/52	30 FXD	\$525	3.900%	135
231	04/04/22	Oglethorpe Power Corp	FMB	Baa1/BBB+	04/01/47	25 FXD	\$500	4.500%	205
232	04/19/22	Berkshire Hathaway Energy Co	Senior	A3/A-	05/01/53	31 FXD	\$1,000	4.600%	162.5
233	04/27/22	National Rural Utilities Co	Senior	A2/A-	06/15/25	3 FXD	\$300	3.450%	75
234	05/02/22	American Water Capital Corp	Senior	Baa1/A	06/01/32	10 FXD	\$800	4.450%	150
235	05/02/22	Georgia Power Co	Senior	Baa1/BBB+	05/15/32	10 FXD	\$700	4.700%	175
236	05/02/22	Georgia Power Co	Senior	Baa1/BBB+	05/15/52	30 FXD	\$800	5.125%	210
237	05/02/22	Northern States Power Co/MN	FMB	Aa3/A	06/01/52	30 FXD	\$500	4.500%	148
238	05/03/22	Xcel Energy Inc	Senior	Baa1/BBB+	06/01/32	10 FXD	\$700	4.600%	167
239	05/05/22	Southern Company/The	Jr Sub	Baa3/BBB	NA	2 FXD	\$863	--	155
240	05/05/22	Southern Company/The	Jr Sub	Baa3/BBB	NA	5 FXD	\$863	--	200
241	05/10/22	Piedmont Natural Gas Co Inc	Senior	A3/BBB+	05/15/52	30 FXD	\$400	5.050%	197
242	05/10/22	Public Service Co of Colorado	FMB	A1/A	06/01/32	10 FXD	\$300	4.100%	120
243	05/10/22	Public Service Co of Colorado	FMB	A1/A	06/01/52	30 FXD	\$400	4.500%	145
244	05/10/22	Vistra Operations Co LLC	Secured	Baa3/BBB-	05/13/24	2NC1 FXL	\$400	4.875%	225
245	05/10/22	Vistra Operations Co LLC	Secured	Baa3/BBB-	05/13/25	3 FXD	\$1,100	5.125%	237.5
246	05/12/22	NSTAR Electric Co	Senior	A1/A	06/01/52	30 FXD	\$450	4.550%	157
247	05/16/22	AEP Texas Inc	Senior	Baa2/A-	05/15/32	10 FXD	\$500	4.700%	185
248	05/16/22	AEP Texas Inc	Senior	Baa2/A-	05/15/52	30 FXD	\$500	5.250%	215
249	05/16/22	Virginia Electric and Power Co	Senior	A2/BBB+	05/15/27	5 FXD	\$600	3.750%	98
250	05/16/22	Virginia Electric and Power Co	Senior	A2/BBB+	05/15/52	30 FXD	\$600	4.625%	160
251	05/17/22	Oncor Electric Delivery Co LLC	FMB	A2/A+	06/01/32	10 FXD	\$400	4.150%	122
252	05/17/22	Oncor Electric Delivery Co LLC	FMB	A2/A+	06/01/52	30 FXD	\$400	4.600%	147
253	05/17/22	PECO Energy Co	FMB	Aa3/A	05/15/52	30 FXD	\$350	4.600%	147
254	05/18/22	Essential Utilities Inc	Senior	Baa2/A-	05/01/52	30 FXD	\$500	5.300%	225
255	05/18/22	Southern California Edison Co	FMB	A3/A-	06/01/25	3 FXD	\$300	4.200%	140
256	05/18/22	Southern California Edison Co	FMB	A3/A-	06/01/27	5 FXD	\$600	4.700%	185
257	05/18/22	Southern California Edison Co	FMB	A3/A-	06/01/52	30 FXD	\$350	5.450%	240
258	05/23/22	Southwestern Public Service Co	FMB	A3/A	06/01/52	30 FXD	\$200	5.150%	210
259	06/01/22	Baltimore Gas and Electric Co	Senior	A3/A	06/01/52	30 FXD	\$500	4.550%	145
260	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-	06/08/25	3 FXD	\$450	4.950%	205
261	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-	06/15/27	5 FXD	\$450	5.450%	245
262	06/06/22	Pacific Gas and Electric	FMB	Baa3/BBB-	06/15/32	10 FXD	\$600	5.900%	205
263	06/07/22	AEP Transmission Co	Senior	A2/A-	06/15/52	30 FXD	\$550	4.500%	140
264	06/07/22	Centerpoint Energy Resources	Senior	A3/BBB+	07/01/32	10 FXD	\$500	4.400%	145
265	06/07/22	NiSource Inc	Senior	Baa2/BBB+	06/15/52	30 FXD	\$350	5.000%	190
266	06/08/22	Enel Finance International	Senior	Baa1/BBB+	06/15/25	3 FXD	\$750	4.250%	145
267	06/08/22	Enel Finance International	Senior	Baa1/BBB+	06/15/27	5 FXD	\$750	4.625%	165
268	06/08/22	Enel Finance International	Senior	Baa1/BBB+	06/15/32	10 FXD	\$1,000	5.000%	215
269	06/08/22	Enel Finance International	Senior	Baa1/BBB+	06/15/52	30 FXD	\$1,000	5.500%	240

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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
				Moody's	S&P					
270	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		06/20/24	2 FXD	\$750	4.200%	100
271	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		06/20/25	3 FXD	\$1,000	4.450%	110
272	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		07/15/27	5 FXD	\$1,250	4.625%	125
273	06/21/22	Nextera Energy Capital	Senior	Baa1/BBB+		07/15/32	10 FXD	\$1,000	5.000%	170
274	06/22/22	Eversource Energy	Senior	Baa1/BBB+		07/01/27	5 FXD	\$600	4.600%	140
275	06/22/22	Eversource Energy	Senior	Baa1/BBB+		06/27/24	3 FXD	\$900	4.200%	115
276	07/07/22	Tampa Electric Co	Senior	A3/BBB+		07/12/24	2 FXD	\$300	3.875%	85
277	07/07/22	Tampa Electric Co	Senior	A3/BBB+		07/15/52	30 FXD	\$300	5.000%	180
278	07/28/22	Appalachian Power	Senior	Baa1/A-		04/01/32	10 FXD	\$500	4.500%	185
279	08/01/22	Consumers Energy Co	FMB	A1/A		08/15/32	10 FXD	\$350	3.600%	100
280	08/01/22	Consumers Energy Co	FMB	A1/A		09/01/52	30 FXD	\$450	4.200%	125
281	08/01/22	Edison International	Senior	Baa3/BBB-		08/15/25	3 FXD	\$400	4.700%	190
282	08/02/22	Brooklyn Union Gas Co/The	Senior	Baa2/BBB+		08/05/27	5 FXD	\$400	4.632%	177
283	08/02/22	Brooklyn Union Gas Co/The	Senior	Baa2/BBB+		08/05/32	10 FXD	\$400	4.866%	212
284	08/02/22	NextEra Energy Capital Holdings	Senior	Baa1/BBB+		09/01/24	2 FXD	\$1,500	4.255%	105
285	08/03/22	DTE Energy Co	Senior	Baa2/BBB		11/01/24	2 FXD	\$1,300	4.220%	112.5
286	08/04/22	ONE Gas Inc.	Senior	A3/BBB+		09/01/32	10 FXD	\$300	4.250%	165
287	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		03/15/28	5 FXD	\$900	4.300%	142
288	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		08/15/32	10 FXD	\$1,150	4.500%	177
289	08/08/22	Duke Energy Corp	Senior	Baa2/BBB		08/15/52	30 FXD	\$1,150	5.000%	202
290	08/08/22	Wisconsin Power and Light Co	Senior	A3/A		09/01/32	10 FXD	\$600	3.950%	132
291	08/09/22	Alabama Power Co	Senior	A1/A-		09/01/27	5 FXD	\$550	3.750%	80
292	08/09/22	Alabama Power Co	Senior	A1/A-		09/01/32	10 FXD	\$450	3.940%	115
293	08/09/22	Dominion Energy Inc	Senior	Baa2/BBB		08/15/32	10 FXD	\$400	4.350%	165
294	08/09/22	Dominion Energy Inc	Senior	Baa2/BBB		08/15/52	30 FXD	\$600	4.850%	190
295	08/10/22	National Rural Utilities Cooperative Finance Corp	Senior	A1/A-		12/15/32	10 FXD	\$400	4.150%	140
296	08/15/22	Ameren Illinois Co	FMB	A1/A		09/01/32	10 FXD	\$500	3.850%	108
297	08/16/22	PECO Energy Co	FMB	Aa3/A		08/15/52	30 FXD	\$425	4.375%	127
298	08/18/22	Entergy Louisiana LLC	FMB	A2/A		09/15/52	30 FXD	\$500	4.750%	162.5
299	08/22/22	Entergy Texas, Inc.	FMB	A3/A-		09/15/52	30 FXD	\$325	5.000%	178
300	09/06/22	Oncor Electric Delivery Co LLC	Senior	A2/A+		09/15/32	10 FXD	\$700	4.550%	123
301	09/06/22	Oncor Electric Delivery Co LLC	Senior	A2/A+		09/15/52	30 FXD	\$500	4.950%	148
302	09/06/22	Southern Co Gas Capital Corp	Senior	Baa1/BBB+		09/15/32	10 FXD	\$500	5.150%	185
303	09/08/22	ITC Holdings Corp	Senior	Baa2/BBB+		09/22/27	5 FXD	\$600	4.950%	158
304	09/12/22	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/32	10 FXD	\$500	4.450%	115
305	09/12/22	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/52	30 FXD	\$300	4.850%	137.5
306	09/12/22	NSTAR Electric Co	Senior	A1/A		09/15/52	30 FXD	\$400	4.950%	147
307	09/12/22	Niagara Mohawk Power Corp	Senior	Baa1/BBB+		09/16/52	30 FXD	\$500	5.783%	225
308	09/14/22	Wisconsin Electric Power Co	Senior	A2/A-		09/30/32	10 FXD	\$500	4.750%	135
309	09/22/22	Ohio Edison Co	Senior	A3/BBB		01/15/33	10 FXD	\$300	5.500%	185
310	09/22/22	WEC Energy Group Inc	Senior	Baa1/BBB+		09/27/25	3 FXD	\$500	5.000%	90
311	09/22/22	WEC Energy Group Inc	Senior	Baa1/BBB+		10/01/27	5 FXD	\$400	5.150%	128
312	09/27/22	Atmos Energy Group	Senior	A1/A-		10/15/32	10 FXD	\$300	5.450%	152
313	09/27/22	Atmos Energy Group	Senior	A1/A-		10/15/52	30 FXD	\$500	5.750%	195
314	10/03/22	The Southern Co	Senior	Baa2/BBB		10/15/32	10 FXD	\$500	5.700%	205
315	10/03/22	The Southern Co	Senior	Baa2/BBB		10/06/25	3 FXD	\$500	5.150%	110
316	10/03/22	EDP Finance	Senior	Baa3/BBB		10/11/27	5 FXD	\$500	6.300%	245
317	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/52	30 FXD	\$1,000	7.750%	440
318	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/32	10 FXD	\$1,250	7.500%	400
319	10/06/22	Enel Finance International NV	Senior	Baa1/BBB+		10/14/25	3 FXD	\$750	6.800%	275
320	10/06/22	Enel Finance America LLC	Senior	Baa1/BBB+		10/14/27	5 FXD	\$1,000	7.100%	325
321	10/17/22	Nevada Power Co	Senior	A2/A+		05/01/53	30 FXD	\$400	5.900%	190
322	10/20/22	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		10/30/25	3 FXD	\$500	5.450%	85
323	10/20/22	National Rural Utilities Cooperative Finance Corp	CTB	A2/A-		01/15/33	10 FXD	\$350	5.800%	158

**Michigan Public Service Commission**  
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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
324	10/31/22	American Electric Power Company Inc	Senior	Baa2/BBB+		11/01/32	10 FXD	\$500	5.950%	195
325	10/31/22	American Electric Power Company Inc	Senior	Baa2/BBB+		11/01/27	5 FXD	\$500	5.750%	155
326	11/03/22	Southern California Edison Co	Senior	A3/A-		11/01/32	10 FXD	\$750	5.950%	190
327	11/03/22	Southern California Edison Co	Senior	A3/A-		11/01/27	5 FXD	\$750	5.850%	150
328	11/04/22	Public Service Enterprise	Senior	Baa2/BBB		11/15/27	5 FXD	\$700	5.850%	155
329	11/04/22	Arizona Public Service Co	Senior	A3/BBB+		12/15/32	10 FXD	\$400	6.350%	220
330	11/07/22	Wisconsin Public Service Corp	Senior	A2/A-		11/10/25	3 FXD	\$300	5.350%	72
331	11/07/22	Southern California Gas Co	FMB	Aa3/A+		11/15/52	30 FXD	\$600	6.350%	205
332	11/07/22	Edison	Senior	Baa3/BBB-		11/15/29	7 FXD	\$550	6.950%	280
333	11/07/22	Duke Energy Florida LLC	FMB	A1/A		11/15/52	30 FXD	\$500	5.950%	167
334	11/08/22	Indianapolis Power & Light Co	FMB	A2/A-		12/01/32	10 FXD	\$350	5.650%	155
335	11/08/22	Ameren Illinois CO	FMB	A1/A		12/01/52	30 FXD	\$350	5.900%	163
336	01/03/23	The Connecticut Light and Power Co	FMB	A1/A+		01/15/53	30 FXD	\$500	5.250%	135
337	01/03/23	Public Service Co of Oklahoma	Senior	Baa1/A-		01/15/33	10 FXD	\$475	5.250%	150
338	01/03/23	Oklahoma Gas and Electric Co	Senior	A3/A-		01/15/33	10 FXD	\$450	5.400%	165
339	01/03/23	Entergy Arkansas LLC	FMB	A2/A		01/15/33	10 FXD	\$425	5.150%	140
340	01/03/23	Duke Energy Carolinas LLC	FMB	Aa3/A		01/15/53	30 FXD	\$900	5.350%	145
341	01/03/23	Duke Energy Carolinas LLC	FMB	Aa3/A		01/15/33	10 FXD	\$900	4.950%	120
342	01/03/23	Consumers Energy Co	FMB	A1/A		03/01/28	5 FXD	\$425	4.650%	75
343	01/03/23	Commonwealth Edison Co	FMB	A1/A		02/01/53	30 FXD	\$575	5.300%	140
344	01/03/23	Commonwealth Edison Co	FMB	A1/A		02/01/33	10 FXD	\$400	4.900%	115
345	01/04/23	Public Service Co of New Hampshire	FMB	A1/A+		01/15/53	30 FXD	\$300	5.150%	133
346	01/04/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/33	10 FXD	\$750	6.150%	250
347	01/04/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/53	30 FXD	\$750	6.750%	295
348	01/09/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/15/28	5 FXD	\$450	4.750%	112.5
349	01/09/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/09/26	3 FXD	\$650	4.750%	85
350	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		03/13/26	3 FXD	\$600	4.450%	70
351	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		03/15/28	5 FXD	\$200	4.800%	95
352	02/02/23	National Rural Utilities Cooperative Finance Corp	Senior	A1/A-		01/15/33	10 FXD	\$300	5.800%	123
353	02/06/23	Spire Missouri Inc	FMB	A1/A		02/15/33	10 FXD	\$400	4.800%	120
354	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/53	30 FXD	\$1,150	5.250%	155
355	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/33	10 FXD	\$1,000	5.050%	140
356	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/30	7 FXD	\$600	5.000%	125
357	02/06/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		02/28/28	5 FXD	\$1,250	4.900%	110
358	02/13/23	Tucson Electric Power Co	Senior	A3/A-		04/15/53	30 FXD	\$375	5.500%	175
359	02/13/23	Consumers Energy Co	FMB	A1/A		05/15/33	10 FXD	\$700	4.625%	97
360	02/16/23	Exelon	Senior	Baa2/BBB		03/15/53	30 FXD	\$650	5.600%	170
361	02/16/23	Exelon	Senior	Baa2/BBB		03/15/33	10 FXD	\$850	5.300%	145
362	02/16/23	Exelon	Senior	Baa2/BBB		03/15/28	5 FXD	\$1,000	5.150%	112.5
363	02/21/23	Constellation Energy Generation LLC	Senior	Baa2/BBB		03/01/33	10 FXD	\$600	5.800%	185
364	02/21/23	Constellation Energy Generation LLC	Senior	Baa2/BBB		03/01/28	5 FXD	\$750	5.600%	143
365	02/21/23	Consolidated Edison Co of New York Inc	Senior	Baa1/A-		03/01/33	10 FXD	\$500	5.200%	125
366	02/21/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/33	10 FXD	\$600	5.400%	145
367	02/21/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/28	5 FXD	\$600	5.250%	115
368	02/22/23	NextEra Energy Capital Holdings Inc	Senior	Baa1/BBB+		03/01/25	2 FXD	\$2,500	6.051%	120
369	02/27/23	Union Electric Co	FMB	A2/A		03/15/53	30 FXD	\$500	5.450%	155
370	02/27/23	Southern California Edison Co	FMB	A2/A-		03/01/53	30 FXD	\$450	5.700%	180
371	02/27/23	Southern California Edison Co	FMB	A2/A-		03/01/28	5 FXD	\$750	5.300%	115
372	02/27/23	PPL Electric Utilities Corp	FMB	A1/A+		05/15/53	30 FXD	\$750	5.250%	145
373	02/27/23	PPL Electric Utilities Corp	FMB	A1/A+		05/15/33	10 FXD	\$600	5.000%	120
374	02/27/23	DTE Electric Co	FMB	Aa3/A		04/01/53	30 FXD	\$600	5.400%	148
375	02/27/23	DTE Electric Co	FMB	Aa3/A		04/01/33	10 FXD	\$600	5.200%	130
376	02/27/23	American Electric Power	Senior	Baa2/BBB+		03/01/33	10 FXD	\$850	5.625%	175
377	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/53	30 FXD	\$750	5.300%	140

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
378	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/33	10 FXD	\$750	5.100%	120
379	02/28/23	Florida Power & Light Co	FMB	Aa2/A+		04/01/28	5 FXD	\$1,000	5.050%	90
380	03/01/23	KeySpan Gas East Corp	Senior	Baa1/BBB+		03/06/33	10 FXD	\$500	5.994%	200
381	03/01/23	Eversource Energy	Senior	Baa1/BBB+		03/01/28	5 FXD	\$750	5.450%	123
382	03/01/23	Edison	Jr Sub	Baa3/BB+		06/15/53	VC5 FXD/F	\$500	8.125%	0.1
383	03/02/23	Northwest Natural Gas Co	FMB	A2/AA-		03/15/33	10 FXD	\$100	5.750%	170
384	03/02/23	NRG Energy	Senior Secured	Baa3/BBB-		03/15/33	10 FXD	\$740	7.000%	310
385	03/02/23	Black Hills	Senior	Baa2/BBB+		03/15/28	5 FXD	\$350	5.950%	170
386	03/06/23	San Diego Gas & Electric Co	FMB	A1/A		04/01/53	30 FXD	\$800	5.350%	150
387	03/06/23	Duke Energy Progress LLC	FMB	Aa3/A		03/15/53	30 FXD	\$500	5.350%	148
388	03/06/23	Duke Energy Progress LLC	FMB	Aa3/A		03/15/33	10 FXD	\$500	5.250%	128
389	03/07/23	Eergy Kansas Central Inc	FMB	A2/A		03/15/53	30 FXD	\$400	5.700%	185
390	03/08/23	System Energy Inc	FMB	Baa1/A		04/15/28	5 FXD	\$325	6.000%	255
391	03/09/23	Louisville Gas and Electric Co	FMB	A1/A		04/15/33	10 FXD	\$400	5.450%	155
392	03/09/23	Kentucky Utilities Co	FMB	A1/A		04/15/33	10 FXD	\$400	5.450%	155
393	03/09/23	Idaho Power Co	FMB	A2/A-		03/15/53	30 FXD	\$400	5.500%	170
394	03/09/23	AEP Transmission Co LLC	Senior	A2/A-		03/15/53	30 FXD	\$700	5.400%	157
395	03/20/23	Duke Energy Ohio Inc	FMB	A2/A		04/01/53	30 FXD	\$375	5.650%	200
396	03/20/23	Duke Energy Ohio Inc	FMB	A2/A		04/01/33	10 FXD	\$375	5.250%	175
397	03/20/23	CenterPoint Energy Houston Electric LLC	FMB	A2/A		04/01/53	30 FXD	\$300	5.300%	165
398	03/20/23	CenterPoint Energy Houston Electric LLC	FMB	A2/A		04/01/33	10 FXD	\$600	4.950%	150
399	03/21/23	Southwest Gas Corp	Senior	Baa1/BBB		03/23/28	5 FXD	\$300	5.450%	175
400	03/21/23	Oklahoma Gas and Electric Co	Senior	A3/A-		04/01/53	30 FXD	\$350	5.600%	190
401	03/21/23	Nisource	Senior	Baa2/BBB+		03/30/28	5 FXD	\$750	5.250%	155
402	03/21/23	Indiana Michigan Power Co	Senior	A3/A-		04/01/53	30 FXD	\$500	5.625%	190
403	03/21/23	Duke Energy Indiana LLC	FMB	Aa3/A		04/01/53	30 FXD	\$500	5.400%	170
404	03/23/23	Public Service Electric and Gas Co	Senior	A1/A		03/15/53	30 FXD	\$400	5.125%	142
405	03/23/23	Public Service Electric and Gas Co	Senior	A1/A		03/15/33	10 FXD	\$500	4.650%	122
406	03/27/23	Wisconsin Power and Light Co	Senior	A3/A		04/01/33	10 FXD	\$300	4.950%	145
407	03/27/23	Public Service Co of Colorado	FMB	A1/A		04/01/53	30 FXD	\$850	5.250%	155
408	03/28/23	Virginia Electric and Power Co	Senior	A2/BBB+		04/01/53	30 FXD	\$750	5.450%	175
409	03/28/23	Virginia Electric and Power Co	Senior	A2/BBB+		04/01/33	10 FXD	\$750	5.000%	150
410	03/28/23	Southwestern Electric Power Co	Senior	Baa2/A-		04/01/33	10 FXD	\$350	5.300%	178
411	03/28/23	Pennsylvania Electric Co	Senior	Baa1/BBB		03/30/26	3 FXD	\$300	5.150%	140
412	03/28/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		04/01/53	30 FXD	\$750	6.700%	295
413	03/28/23	Metropolitan Edison Co	Senior	A3/BBB		04/01/28	5 FXD	\$425	5.200%	160
414	04/03/23	Eergy Metro Inc	Senior	A2/A+		04/15/33	10 FXD	\$300	4.950%	153
415	04/04/23	WEC Energy Group Inc	Senior	Baa1/BBB+		01/09/26	3 FXD	\$350	4.750%	100
416	05/01/23	Northern States Power Co/MN	FMB	Aa3/A		05/15/53	30 FXD	\$800	5.100%	135
417	05/01/23	Georgia Power Co	Senior	Baa1/BBB+		05/17/33	10 FXD	\$1,000	4.950%	140
418	05/01/23	Georgia Power Co	Senior	Baa1/BBB+		05/16/28	5 FXD	\$750	4.650%	105
419	05/01/23	CenterPoint Energy Resources Corp	Senior	A3/BBB+		03/01/28	5 FXD	\$300	5.250%	100
420	05/08/23	Oncor Electric Delivery Co LLC	Senior Secured	A2/A+		NA	5 FXD	\$600	--	85
421	05/08/23	Oncor Electric Delivery Co LLC	Senior Secured	A2/A+		NA	30 FXD	\$400	--	145
422	05/08/23	Ohio Power Co	Senior	Baa1/A-		06/01/33	10 FXD	\$400	5.000%	155
423	05/08/23	Eversource Energy	Senior	Baa1/BBB+		05/15/26	3 FXD	\$450	4.750%	105
424	05/08/23	Eversource Energy	Senior	Baa1/BBB+		05/15/33	10 FXD	\$800	5.125%	162.5
425	05/08/23	Eversource Energy	Senior	Baa1/BBB+		03/01/28	5 FXD	\$550	5.450%	130
426	05/08/23	DTE Energy Co	Senior	Baa2/BBB		06/01/28	5 FXD	\$800	4.875%	140
427	05/08/23	Baltimore Gas and Electric Co	Senior	A3/A		06/01/53	30 FXD	\$700	5.400%	158
428	05/09/23	Entergy Mississippi LLC	FMB	A2/A		09/01/33	10 FXD	\$300	5.000%	148
429	05/10/23	Edison	Senior	Baa2/BBB-		11/15/28	6 FXD	\$600	5.250%	190
430	05/15/23	Southern Co/The	Senior	Baa2/BBB		06/15/33	10 FXD	\$750	5.200%	173
431	05/15/23	Southern Co/The	Senior	Baa2/BBB		06/15/28	5 FXD	\$750	4.850%	143

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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
432	05/15/23	Puget Sound Energy Inc	FMB	A2/A-		06/01/53	30 FXD	\$400	5.448%	160
433	05/15/23	PacifiCorp	FMB	A1/A+		05/15/54	31 FXD	\$1,200	5.500%	165
434	05/15/23	National Fuel Gas	Senior	Baa3/BBB-		10/01/26	3 FXD	\$300	5.500%	190
435	05/15/23	Florida Power & Light Co	Senior	A1/A		05/15/26	3 FXD	\$500	4.450%	80
436	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/33	10 FXD	\$750	4.800%	130
437	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/30	7 FXD	\$500	4.625%	115
438	05/15/23	Florida Power & Light Co	FMB	Aa2/A+		05/15/28	5 FXD	\$750	4.400%	95
439	05/15/23	AES Corp/The	Senior	Baa3/BBB-		06/01/28	5 FXD	\$900	5.400%	200
440	05/17/23	Southern California Gas Co	FMB	Aa2/A+		06/01/33	10 FXD	\$500	5.200%	165
441	05/17/23	Southern California Gas Co	FMB	Aa2/A+		06/01/53	30 FXD	\$500	5.750%	190
442	05/17/23	Southern California Edison Co	FMB	A2/A-		12/01/53	30 FXD	\$700	5.875%	200
443	05/17/23	Southern California Edison Co	FMB	A2/A-		06/01/26	3 FXD	\$400	4.900%	112.5
444	05/17/23	National Rural Utilities Cooperative Finance Corp	Sub	A3/BBB		09/15/53	NC5 FXD/F	\$300	7.125%	0.0715
445	05/17/23	ITC Holdings Corp	Senior	Baa2/BBB+		NA	4 FXD	\$300	--	135
446	05/17/23	ITC Holdings Corp	Senior	Baa2/BBB+		06/01/33	10 FXD	\$500	5.400%	185
447	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/53	30 FXD	\$1,000	6.900%	310
448	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/33	10 FXD	\$1,000	6.250%	270
449	05/17/23	Electricite de France SA	Senior	Baa1/BBB		05/23/28	5 FXD	\$1,000	5.700%	215
450	05/22/23	AEP Texas Inc	Senior	Baa2/A-		06/01/33	10 FXD	\$450	5.400%	172
451	05/23/23	Ameren Illinois Co	FMB	A1/A		06/01/33	10 FXD	\$500	4.950%	127
452	05/30/23	Nisource	Senior	Baa2/BBB+		06/30/33	10 FXD	\$450	5.400%	175
453	05/30/23	Nisource	Senior	Baa2/BBB+		03/30/28	5 FXD	\$300	5.250%	135
454	05/31/23	American Electric Power	Jr Sub	Baa3/BBB+		08/15/25	2 FXD	\$850	5.699%	155
455	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		06/15/33	10 FXD	\$1,150	6.400%	280
456	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/29	5 FXD	\$850	6.100%	240
457	06/01/23	Pacific Gas and Electric Co	FMB	Baa3/BBB-		01/15/53	30 FXD	\$500	6.750%	315
458	06/05/23	Piedmont Natural Gas Co Inc	Senior	A3/BBB+		06/15/33	10 FXD	\$350	5.400%	170
459	06/07/23	National Grid PLC	Senior	Baa2/BBB		06/12/33	10 FXD	\$800	5.809%	202
460	06/07/23	National Grid PLC	Senior	Baa2/BBB		06/12/28	5 FXD	\$700	5.602%	167
461	06/08/23	Palomino Funding Trust I	Senior	Baa3/BBB-		NA	5 FXD	\$450	--	337.5
462	06/08/23	Electricite de France SA	Jr Sub	Ba2/B+		12/31/99	NC10 FXD	\$1,500	9.125%	0.09125
463	06/13/23	Duke Energy Carolinas LLC	FMB	Aa3/A		NA	30 FXD	\$500	4.875%	150
464	06/13/23	Duke Energy Carolinas LLC	Senior	Aa3/A		01/15/33	10 FXD	\$350	4.950%	130
465	06/15/23	PECO Energy Co	FMB	Aa3/A		06/15/33	10 FXD	\$575	4.900%	120
466	06/20/23	Sempra Energy	Senior	Baa2/BBB		08/01/33	10 FXD	\$700	5.500%	180
467	06/20/23	Sempra Energy	Senior	Baa2/BBB		08/01/26	3 FXD	\$550	5.400%	123
468	06/26/23	The Connecticut Light and Power Co	FMB	A1/A+		07/01/33	10 FXD	\$300	4.900%	120
469	06/26/23	National Rural Utilities Cooperative Finance Corp	Senior	A2/A-		09/15/28	5 FXD	\$400	5.050%	110
470	06/27/23	Arizona Public Service Co	Senior	A3/BBB+		08/01/33	10 FXD	\$500	5.550%	180
471	07/17/23	Boston Gas Co	Senior	Baa1/BBB+		07/20/53	30 FXD	\$400	6.119%	218
472	07/31/23	Xcel Energy	Senior	Baa1/BBB+		08/15/33	10 FXD	\$800	5.450%	153
473	07/31/23	Consumers Energy Co	FMB	A1/A		02/15/29	5 FXD	\$500	4.900%	75
474	08/03/23	Public Service Electric and Gas Co	FMB	A1/A		08/01/53	30 FXD	\$400	5.450%	115
475	08/03/23	Public Service Electric and Gas Co	FMB	A1/A		08/01/33	10 FXD	\$500	5.200%	103
476	08/03/23	New York State Electric & Gas Corp	Senior	Baa1/A-		08/15/33	10 FXD	\$400	5.850%	168
477	08/03/23	New York State Electric & Gas Corp	Senior	Baa1/A-		08/15/28	5 FXD	\$350	5.650%	140
478	08/07/23	San Diego Gas & Electric Co	FMB	A1/A		08/15/28	5 FXD	\$600	4.950%	90
479	08/08/23	Virginia Electric and Power Co	Senior	A2/BBB+		08/15/53	30 FXD	\$600	5.700%	150
480	08/08/23	Virginia Electric and Power Co	Senior	A2/BBB+		08/15/33	10 FXD	\$400	5.300%	128
481	08/08/23	Entergy Texas Inc	FMB	A3/A		09/01/53	30 FXD	\$350	5.800%	160
482	08/08/23	Centerpoint Energy	Senior	Baa2/BBB		08/10/26	3 FXD	\$400	5.250%	90
483	08/14/23	Entergy Arkansas LLC	FMB	A2/A		09/15/33	10 FXD	\$300	5.300%	120
484	08/15/23	Alexander Funding Trust II	Secured	Baa3/BBB-		NA	5 FXD	\$500	--	310
485	09/05/23	WEC Energy Group Inc	Senior	Baa1/BBB+		NA	3 FXD	\$600	--	93

Michigan Public Service Commission  
DTE Gas Company  
Recent Utility Corporate Bond Issuances

Case No.: U-21291  
Exhibit: A-17  
Schedule: G2  
Witness: T. J. Lepczyk  
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Line No.	Offer Date	Issuer	Secured (?)	Credit Ratings		Maturity	Tenor	Amount (\$MM)	Coupon	Spread
				Moody's	S&P					
486	09/05/23	The Southern Co	Senior	Baa2/BBB		03/15/34	10 FXD	\$700	5.700%	148
487	09/05/23	The Southern Co	Senior	Baa2/BBB		03/15/29	5 FXD	\$600	5.500%	113
488	09/05/23	MidAmerican Energy Co	FMB	Aa2/A+		09/15/54	31 FXD	\$1,000	5.850%	147
489	09/05/23	MidAmerican Energy Co	FMB	Aa2/A+		01/15/34	10 FXD	\$350	5.350%	110
490	09/05/23	Duke Energy	Senior	Baa2/BBB		09/15/53	30 FXD	\$750	6.100%	173
491	09/05/23	Duke Energy	Senior	Baa2/BBB		09/15/33	10 FXD	\$600	5.750%	150
492	09/06/23	Idaho Power Co	FMB	A2/A-		04/01/54	31 FXD	\$350	5.800%	150
493	09/06/23	Black Hills	Senior	Baa2/BBB+		05/15/34	10 FXD	\$450	6.150%	190
494	09/11/23	Southern Co Gas Capital Corp	Senior	Baa1/BBB+		09/15/33	10 FXD	\$500	5.750%	148
495	09/11/23	Nevada Power Co	Senior	A2/A+		03/15/54	30 FXD	\$500	6.000%	163
496	09/12/23	The Brooklyn Union Gas Co	Senior	Baa2/BBB+		NA	10 FXD	\$400	--	212
497	09/12/23	Monongahela Power Co	FMB	A3/A-		02/15/34	10 FXD	\$400	5.850%	160
498	09/13/23	Sierra Pacific Power Co	Senior	A2/A+		03/15/54	30 FXD	\$400	5.900%	160
499	09/13/23	CenterPoint Energy Houston Electric LLC	Secured	A2/A		10/01/28	5 FXD	\$500	5.200%	85

Michigan Public Service Commission  
DTE Gas Company  
Peer Equity Ratio

Case No.: U-21291  
Exhibit: A-17  
Schedule: G3  
Witness: T.J. Lepczyk  
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Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	<b>Year-end 2022</b>						
2	<b>In Thousands of USD</b>						
		<b>Long-Term Debt</b>	<b>Current Long-Term Debt</b>	<b>Total Long-Term Debt</b>	<b>Equity</b>	<b>Total Permanent Capitalization</b>	<b>Equity/Permanent Capitalization</b>
3	<i>Company Name</i>						
4	<b><u>Atmos Energy Corporation</u></b>						
5	Atmos Energy Corporation	5,710,254	2,200,000	7,910,254	9,419,091	17,329,345	54.4%
6							
7	<b><u>Chesapeake Utilities Corporation</u></b>						
8	Chesapeake Utilities Corporation	578,388	21,483	599,871	832,801	1,432,672	58.1%
9							
10	<b><u>New Jersey Resources</u></b>						
11	New Jersey Natural Gas Company	1,283,317	-	1,283,317	1,608,422	2,891,739	55.6%
12							
13	<b><u>Nisource Inc.</u></b>						
14	Columbia Gas of Maryland, Incorporated	105,355	-	105,355	113,951	219,306	52.0%
15	Columbia Gas of Ohio, Inc.	2,102,926	-	2,102,926	2,160,219	4,263,145	50.7%
16	Columbia Gas of Pennsylvania, Inc.	1,135,515	-	1,135,515	1,483,215	2,618,730	56.6%
17	Northern Indiana Public Service Company	2,923,936	-	2,923,936	3,863,257	6,787,193	56.9%
18							
19	<b><u>Northwest Natural Gas Company</u></b>						
20	Northwest Natural Gas Company	1,035,935	89,942	1,125,877	1,191,082	2,316,959	51.4%
21							
22	<b><u>ONE Gas, Inc.</u></b>						
23	ONE Gas	2,661,743	20,716	2,682,459	2,584,426	5,266,885	49.1%
24	Texas Gas Service Company, Inc.	723,850	-	723,850	1,004,983	1,728,833	58.1%
25							
26	<b><u>Southwest Gas Holdings, Inc.</u></b>						
27	Southwest Gas Corporation	3,251,296	-	3,251,296	2,569,175	5,820,471	44.1%
28							
29	<b><u>Spire Inc.</u></b>						
30	Spire Alabama Inc	571,500	-	571,500	906,000	1,477,500	61.3%
31	Spire Missouri Inc	1,387,700	250,000	1,637,700	1,745,400	3,383,100	51.6%
32							
33						<b>Average</b>	<b>53.8%</b>
34							
35	<b><u>DTE Energy Company</u></b>						
36	DTE Gas	2,240,000	75,000	2,315,000	2,402,000	4,717,000	50.9%

source: S&P Global Market Intelligence

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Main Replacement  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H1  
Witness: K. M. Vangilder  
Page: 1 of 2

Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029	(h) Total
1	<b>Capital Investment</b>							
2	Main Replacement	Exh. A-12, Sch. B5.3, L2	\$ 274,000	\$ 274,000	\$ 274,000	\$ 274,000	\$ 274,000	\$ 1,370,000
3	<b>Net Rate Base</b>							
4	Cumulative Capital Investment	Prior Yr plus Line2	\$ 274,000	\$ 548,000	\$ 822,000	\$ 1,096,000	\$ 1,370,000	
5	Accumulated Depreciation	Prior Yr plus Line -11	(3,384)	(13,536)	(30,455)	(54,142)	(84,598)	
6	Accum. Deferred Taxes	Exh A-18, Sch H1, P2, L6	(1,805)	(7,020)	(15,255)	(26,151)	(39,375)	
7	Ending Net Rate Base	Sum of Line 4 thru L6	268,811	527,444	776,290	1,015,707	1,246,027	
8	Average Net Rate Base	L7 (PY+CY)/2	134,405	398,127	651,867	895,998	1,130,867	
9	<b>Total Cost of Service</b>							
10	Return on Net Rate Base	L8 * 9.31% (1)	12,517	37,077	60,707	83,443	105,316	299,059
11	Depreciation (1/2 yr conv.)	(2)	3,384	10,152	16,920	23,687	30,455	84,598
12	Property Taxes	Exh A-18, Sch H1, P2, L25	-	7,453	14,426	20,918	27,009	69,806
13	Total Cost of Service (COS) Requirement	L10 thru L12	\$ 15,901	\$ 54,682	\$ 92,053	\$ 128,048	\$ 162,780	\$ 453,463

(1) Pre-tax rate of return  
Exhibit A-14, Schedule D1

	Weighted Cost	Pre-tax Multiplier	Pre-tax Rate of Return
Long-Term Debt	2.16%	1.000	2.16%
Common Equity	5.28%	1.355	7.15%
Total	7.44%		9.31%

(2) Depreciation rate for Distribution Mains-Plastic is 2.47% based on the proposed rates within 2023 DTE Gas Depreciation Case U-21384

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Main Replacement  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H1  
Witness: K. M. Vangilder  
Page: 2 of 2

Line No.	(a) Description	(b) Source	(c)	(d)	(e)	(f)	(g)
			Year 1 2025	Year 2 2026	Year 3 2027	Year 4 2028	Year 5 2029
1	<b>Deferred Tax Expense</b>						
2	Tax Depreciation	Line 14	10,275	30,055	48,350	65,275	80,929
3	Book Depreciation	Exh A-18, Sch H1, P1, L11	3,384	10,152	16,920	23,687	30,455
4	Timing Difference	Line 2 - Line 3	6,891	19,903	31,431	41,588	50,474
5	Deferred Tax Expense	Line 4 X 26.2%	1,805	5,215	8,235	10,896	13,224
6	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ 1,805	\$ 7,020	\$ 15,255	\$ 26,151	\$ 39,375
7	<b>Tax Depreciation</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
8	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%	6.677%	6.177%	5.713%
9	Year 1 Additions	Cost x MACRS Tax Rate	10,275	19,780	18,295	16,925	15,654
10	Year 2 Additions	Cost x MACRS Tax Rate		10,275	19,780	18,295	16,925
11	Year 3 Additions	Cost x MACRS Tax Rate			10,275	19,780	18,295
12	Year 4 Additions	Cost x MACRS Tax Rate				10,275	19,780
13	Year 5 Additions	Cost x MACRS Tax Rate	-	-	-	-	10,275
14	Total Tax Depreciation	Sum of L9 thru L13	\$ 10,275	\$ 30,055	\$ 48,350	\$ 65,275	\$ 80,929
15	<b>Property Tax</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
16	Factor	WP-SLW-1	0.93	0.87	0.81	0.76	0.71
17	Year 1 Taxable Value	Cost x Factor x 50%	127,410	119,190	110,970	104,120	97,270
18	Year 2 Taxable Value	Cost x Factor x 50%		127,410	119,190	110,970	104,120
19	Year 3 Taxable Value	Cost x Factor x 50%			127,410	119,190	110,970
20	Year 4 Taxable Value	Cost x Factor x 50%				127,410	119,190
21	Year 5 Taxable Value	Cost x Factor x 50%	-	-	-	-	127,410
22	Total Taxable Value	Sum of L17 thru L21	\$ 127,410	\$ 246,600	\$ 357,570	\$ 461,690	\$ 558,960
23	Millage	Exh. A-13, Sch C7.1	58.500	58.500	58.500	58.500	58.500
24	Property Tax Assessed	L22 x L23	\$ 7,453	\$ 14,426	\$ 20,918	\$ 27,009	\$ 32,699
25	Property Tax Expense (Year lag)			\$ 7,453	\$ 14,426	\$ 20,918	\$ 27,009

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Meter Move-out  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H2  
Witness: K. M. Vangilder  
Page: 1 of 2

Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029	(h) Total
1	<b>Capital Investment</b>							
2	Meter Move-out	Exh. A-12, Sch. B5.3, L3	\$ 47,545	\$ 47,545	\$ 47,545	\$ 16,705	\$ 16,705	\$ 176,045
3	MMO MAC Initiative	Exh. A-12, Sch. B5.3, L5	-	-	-	-	-	-
4	Total Meter Move-out	L2 + L3	\$ 47,545	\$ 47,545	\$ 47,545	\$ 16,705	\$ 16,705	\$ 176,045
5	<b>Net Rate Base</b>							
6	Cumulative Capital Investment	Prior Yr plus L4	\$ 47,545	\$ 95,090	\$ 142,635	\$ 159,340	\$ 176,045	
7	Accumulated Depreciation	Prior Yr plus - L13	(799)	(3,195)	(7,189)	(12,262)	(17,896)	
8	Accum. Deferred Taxes	Exh A-18, Sch H2, P2, L6	(258)	(996)	(2,148)	(3,484)	(4,800)	
9	Ending Net Rate Base	Sum of L6 thru L8	\$ 46,488	\$ 90,899	\$ 133,298	\$ 143,594	\$ 153,348	
10	Average Net Rate Base	L9 (PY+CY)/2	23,244	68,693	112,098	138,446	148,471	
11	<b>Total Cost of Service</b>							
12	Return on Net Rate Base	L10 * 9.31% (1)	2,165	6,397	10,440	12,893	13,827	45,722
13	Depreciation (1/2 yr conv.)	(2)	799	2,396	3,994	5,073	5,634	17,896
14	Property Taxes	Exh A-18, Sch H2, P2, L25	-	1,293	2,503	3,630	3,848	11,274
15	Total Cost of Service (COS) Requirement	L12 thru L14	\$ 2,963	\$ 10,087	\$ 16,937	\$ 21,596	\$ 23,309	\$ 74,892

(1) Pre-tax rate of return  
Exhibit A-14, Schedule D1

	Weighted Cost	Pre-tax Multiplier	Pre-tax Rate of Return
Long-Term Debt	2.16%	1.000	2.16%
Common Equity	5.28%	1.355	7.15%
Total	7.44%		9.31%

(2) Depreciation rate for Distribution Meters is 3.36% based on the proposed rates within 2023 DTE Gas Depreciation Case U-21384

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Meter Move-out  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H2  
Witness: K. M. Vangilder  
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Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029
1	<b>Deferred Tax Expense</b>						
2	Tax Depreciation	Line 14	1,783	5,215	8,390	10,170	10,660
3	Book Depreciation	Exh A-18, Sch H2, P1, L13	799	2,396	3,994	5,073	5,634
4	Timing Difference	Line 2 - Line 3	984	2,819	4,396	5,097	5,026
5	Deferred Tax Expense	Line 4 X 26.2%	\$ 258	\$ 739	\$ 1,152	\$ 1,335	\$ 1,317
6	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ 258	\$ 996	\$ 2,148	\$ 3,484	\$ 4,800
7	<b>Tax Depreciation</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
8	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%	6.677%	6.177%	5.713%
9	Year 1 Additions	Cost x MACRS Tax Rate	1,783	3,432	3,175	2,937	2,716
10	Year 2 Additions	Cost x MACRS Tax Rate		1,783	3,432	3,175	2,937
11	Year 3 Additions	Cost x MACRS Tax Rate			1,783	3,432	3,175
12	Year 4 Additions	Cost x MACRS Tax Rate				626	1,206
13	Year 5 Additions	Cost x MACRS Tax Rate					626
14	Total Tax Depreciation	Sum of L9 thru L13	\$ 1,783	\$ 5,215	\$ 8,390	\$ 10,170	\$ 10,660
15	<b>Property Tax</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
16	Factor	WP-SLW-1	0.93	0.87	0.81	0.76	0.71
17	Year 1 Taxable Value	Cost x Factor x 50%	22,108	20,682	19,256	18,067	16,878
18	Year 2 Taxable Value	Cost x Factor x 50%		22,108	20,682	19,256	18,067
19	Year 3 Taxable Value	Cost x Factor x 50%			22,108	20,682	19,256
20	Year 4 Taxable Value	Cost x Factor x 50%				7,768	7,267
21	Year 5 Taxable Value	Cost x Factor x 50%					7,768
22	Total Taxable Value	Sum of L17 thru L21	\$ 22,108	\$ 42,791	\$ 62,046	\$ 65,773	\$ 69,236
23	Millage	Exh. A-13, Sch C7.1	58.500	58.500	58.500	58.500	58.500
24	Property Tax Assessed	L22 x L23	\$ 1,293	\$ 2,503	\$ 3,630	\$ 3,848	\$ 4,050
25	Property Tax Expense (Year lag)			\$ 1,293	\$ 2,503	\$ 3,630	\$ 3,848

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Pipeline Integrity  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H3  
Witness: K. M. Vangilder  
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Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029	(h) Total
1	<b>Capital Investment</b>							
2	Pipeline Integrity	Exh. A-12, Sch. B5.3, L6	\$ 23,060	\$ 13,400	\$ 13,400	\$ 11,100	\$ 11,100	\$ 72,060
3	<b>Net Rate Base</b>							
4	Cumulative Capital Investment	Prior Yr plus Line2	\$ 23,060	\$ 36,460	\$ 49,860	\$ 60,960	\$ 72,060	
5	Accumulated Depreciation	Prior Yr plus Line -11	(186)	(665)	(1,360)	(2,252)	(3,323)	
6	Accum. Deferred Taxes	Exh A-18, Sch H3, P2, L6	(178)	(620)	(1,227)	(1,963)	(2,798)	
7	Ending Net Rate Base	Sum of Line 4 thru L6	22,696	35,175	47,274	56,745	65,939	
8	Average Net Rate Base	L7 (PY+CY)/2	11,348	28,936	41,224	52,009	61,342	
9	<b>Total Cost of Service</b>							
10	Return on Net Rate Base	L8 * 9.31% (1)	1,057	2,695	3,839	4,844	5,713	18,147
11	Depreciation (1/2 yr conv.)	(2)	186	479	695	892	1,071	3,323
12	Property Taxes	Exh A-18, Sch H3, P2, L25	-	627	951	1,252	1,473	4,303
13	Total Cost of Service (COS) Requirement	L10 thru L12	\$ 1,242	\$ 3,801	\$ 5,485	\$ 6,987	\$ 8,257	\$ 25,773

(1) Pre-tax rate of return  
Exhibit A-14, Schedule D1

	Weighted Cost	Pre-tax Multiplier	Pre-tax Rate of Return
Long-Term Debt	2.16%	1.000	2.16%
Common Equity	5.28%	1.355	7.15%
Total	7.44%		9.31%

(2) Depreciation rate for Transmission Mains is 1.61% based on the proposed rates within 2023 DTE Gas Depreciation Case U-21384

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Pipeline Integrity  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H3  
Witness: K. M. Vangilder  
Page: 2 of 2

Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029
1	<b>Deferred Tax Expense</b>						
2	Tax Depreciation	Line 14	865	2,167	3,010	3,703	4,257
3	Book Depreciation	Exh A-18, Sch H3, P1, L11	186	479	695	892	1,071
4	Timing Difference	Line 2 - Line 3	679	1,688	2,315	2,811	3,186
5	Deferred Tax Expense	Line 4 X 26.2%	178	442	607	736	835
6	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ 178	\$ 620	\$ 1,227	\$ 1,963	\$ 2,798
7	<b>Tax Depreciation</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
8	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%	6.677%	6.177%	5.713%
9	Year 1 Additions	Cost x MACRS Tax Rate	865	1,665	1,540	1,424	1,317
10	Year 2 Additions	Cost x MACRS Tax Rate		503	967	895	828
11	Year 3 Additions	Cost x MACRS Tax Rate			503	967	895
12	Year 4 Additions	Cost x MACRS Tax Rate				416	801
13	Year 5 Additions	Cost x MACRS Tax Rate	-	-	-	-	416
14	Total Tax Depreciation	Sum of L9 thru L13	\$ 865	\$ 2,167	\$ 3,010	\$ 3,703	\$ 4,257
15	<b>Property Tax</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
16	Factor	WP-SLW-1	0.93	0.87	0.81	0.76	0.71
17	Year 1 Taxable Value	Cost x Factor x 50%	10,723	10,031	9,339	8,763	8,186
18	Year 2 Taxable Value	Cost x Factor x 50%		6,231	5,829	5,427	5,092
19	Year 3 Taxable Value	Cost x Factor x 50%			6,231	5,829	5,427
20	Year 4 Taxable Value	Cost x Factor x 50%				5,162	4,829
21	Year 5 Taxable Value	Cost x Factor x 50%	-	-	-	-	5,162
22	Total Taxable Value	Sum of L17 thru L21	\$ 10,723	\$ 16,262	\$ 21,399	\$ 25,180	\$ 28,695
23	Millage	Exh. A-13, Sch C7.1	58.500	58.500	58.500	58.500	58.500
24	Property Tax Assessed	L22 x L23	\$ 627	\$ 951	\$ 1,252	\$ 1,473	\$ 1,679
25	Property Tax Expense (Year lag)			\$ 627	\$ 951	\$ 1,252	\$ 1,473

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
2025 Year 1  
(\$000)

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 1 of 6

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon
<u>Allocation Factors</u>											
1	Average & Peak (Alloc. 3)	1.0000	0.1659	0.4678	0.0155	0.0067	0.0454	0.0445	0.0612	0.1644	0.0288
2	A&P w/o XXLT (Alloc. 3a)	1.0000	0.1985	0.5598	0.0185	0.0080	0.0543	0.0532	0.0732	-	0.0344
3	Weighted Customers - All (Alloc. 5)	1.0000	0.2248	0.7386	0.0180	0.0030	0.0112	0.0027	0.0010	0.0003	0.0004
4	Customers - All (Alloc. 8)	1.0000	0.0683	0.9265	0.0046	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
<u>Revenue Requirement</u>											
5	GRP - Main Replacement (1)	15,901	3,156	8,902	294	127	863	846	1,164	-	548
6	GRP - Meter Move-Out (2)	2,963	666	2,189	53	9	33	8	3	1	1
7	Pipeline Integrity (3)	1,242	206	581	19	8	56	55	76	204	36
8	Cathodic Protection (4)	561	111	314	10	4	30	30	41	-	19
9	Total - Revenue Requirement	20,668	4,140	11,986	377	149	983	939	1,284	205	604
10	Customers (5)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
11	Monthly Charge \$/Meter		\$ 3.77	\$ 0.80	\$ 5.07	\$ 57.54	\$ 189.18	\$ 921.04	\$ 5,349.26	\$ 2,443.58	
12	<b>Maximum customer charge</b>						<b>\$ 3,300</b>	<b>\$ 9,100</b>	<b>\$ 20,000</b>	<b>\$ 230,000</b>	
13	Adjustment for Maximum Cap	-	-	-	-	-	-	-	-	-	-
14	Reallocate using Customers (Line 7)	-	-	-	-	-	-	-	-	-	-
15	Revised Rev Req (Lines 13, 22 & 24)	20,668	4,140	11,986	377	149	983	939	1,284	205	604
16	Customers (Line 14)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
17	Revised Monthly Charge \$/Meter		<b>\$ 3.77</b>	<b>\$ 0.80</b>	<b>\$ 5.07</b>	<b>\$ 57.54</b>	<b>\$ 189.18</b>	<b>\$ 921.04</b>	<b>\$ 5,349.26</b>	<b>\$ 2,443.58</b>	

(1) Col. (b): Exhibit A-18, Schedule H1, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(2) Col. (b): Exhibit A-18, Schedule H2, Page 1, Line 15; Cols. (c)-(g): Col. (b) \* line 3  
(3) Col. (b): Exhibit A-18, Schedule H3, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 1  
(4) Col. (b): Exhibit A-18, Schedule H7, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(5) Per Exhibit A-16, Schedule F1.2, Page 8, Column (b)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
2026 Year 2  
(\$000)

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 2 of 6

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon
<u>Allocation Factors</u>											
1	Average & Peak (Alloc. 3)	1.0000	0.1659	0.4678	0.0155	0.0067	0.0454	0.0445	0.0612	0.1644	0.0288
2	A&P w/o XXLT (Alloc. 3a)	1.0000	0.1985	0.5598	0.0185	0.0080	0.0543	0.0532	0.0732	-	0.0344
3	Weighted Customers - All (Alloc. 5)	1.0000	0.2248	0.7386	0.0180	0.0030	0.0112	0.0027	0.0010	0.0003	0.0004
4	Customers - All (Alloc. 8)	1.0000	0.0683	0.9265	0.0046	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
<u>Revenue Requirement</u>											
5	GRP - Main Replacement (1)	54,682	10,854	30,613	1,012	438	2,968	2,910	4,003	-	1,884
6	GRP - Meter Move-Out (2)	10,087	2,267	7,450	182	30	113	28	10	3	4
7	Pipeline Integrity (3)	3,801	630	1,778	59	25	172	169	232	625	109
8	Cathodic Protection (4)	1,927	382	1,079	36	15	105	103	141	-	66
9	Total - Revenue Requirement	70,497	14,134	40,921	1,288	509	3,358	3,209	4,386	628	2,063
10	Customers (5)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
11	Monthly Charge \$/Meter		\$ 12.87	\$ 2.74	\$ 17.31	\$ 196.54	\$ 646.23	\$ 3,146.48	\$ 18,274.62	\$ 7,479.91	
12	<b>Maximum customer charge</b>						<b>\$ 3,300</b>	<b>\$ 9,100</b>	<b>\$ 20,000</b>	<b>\$ 230,000</b>	
13	Adjustment for Maximum Cap	-	-	-	-	-	-	-	-	-	-
14	Reallocate using Customers (Line 7)	-	-	-	-	-	-	-	-	-	-
15	Revised Rev Req (Lines 13, 22 & 24)	70,497	14,134	40,921	1,288	509	3,358	3,209	4,386	628	2,063
16	Customers (Line 14)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
17	Revised Monthly Charge \$/Meter		<b>\$ 12.87</b>	<b>\$ 2.74</b>	<b>\$ 17.31</b>	<b>\$ 196.54</b>	<b>\$ 646.23</b>	<b>\$ 3,146.48</b>	<b>\$ 18,274.62</b>	<b>\$ 7,479.91</b>	

(1) Col. (b): Exhibit A-18, Schedule H1, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(2) Col. (b): Exhibit A-18, Schedule H2, Page 1, Line 15; Cols. (c)-(g): Col. (b) \* line 3  
(3) Col. (b): Exhibit A-18, Schedule H3, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 1  
(4) Col. (b): Exhibit A-18, Schedule H7, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(5) Per Exhibit A-16, Schedule F1.2, Page 8, Column (b)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
2027 Year 3  
(\$000)

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 3 of 6

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon
<u>Allocation Factors</u>											
1	Average & Peak (Alloc. 3)	1.0000	0.1659	0.4678	0.0155	0.0067	0.0454	0.0445	0.0612	0.1644	0.0288
2	A&P w/o XXLT (Alloc. 3a)	1.0000	0.1985	0.5598	0.0185	0.0080	0.0543	0.0532	0.0732	-	0.0344
3	Weighted Customers - All (Alloc. 5)	1.0000	0.2248	0.7386	0.0180	0.0030	0.0112	0.0027	0.0010	0.0003	0.0004
4	Customers - All (Alloc. 8)	1.0000	0.0683	0.9265	0.0046	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
<u>Revenue Requirement</u>											
5	GRP - Main Replacement (1)	92,053	18,272	51,535	1,704	738	4,996	4,899	6,738	-	3,171
6	GRP - Meter Move-Out (2)	16,937	3,807	12,510	305	50	190	46	16	6	6
7	Pipeline Integrity (3)	5,485	910	2,566	85	37	249	244	336	902	158
8	Cathodic Protection (4)	3,243	644	1,815	60	26	176	173	237	-	112
9	Total - Revenue Requirement	117,717	23,632	68,427	2,154	851	5,611	5,362	7,327	908	3,447
10	Customers (5)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
11	Monthly Charge \$/Meter		\$ 21.51	\$ 4.59	\$ 28.95	\$ 328.44	\$ 1,079.79	\$ 5,256.85	\$ 30,530.58	\$ 10,803.66	
12	<b>Maximum customer charge</b>						<b>\$ 3,300</b>	<b>\$ 9,100</b>	<b>\$ 20,000</b>	<b>\$ 230,000</b>	
13	Adjustment for Maximum Cap	(2,527)					-	-	(2,527)	-	
14	Reallocate using Customers (Line 7)	2,527	173	2,342	12	0	1	0	-	0	0
15	Revised Rev Req (Lines 13, 22 & 24)	117,717	23,805	70,768	2,166	851	5,611	5,362	4,800	908	3,447
16	Customers (Line 14)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
17	Revised Monthly Charge \$/Meter		<b>\$ 21.67</b>	<b>\$ 4.75</b>	<b>\$ 29.10</b>	<b>\$ 328.60</b>	<b>\$ 1,079.95</b>	<b>\$ 5,257.01</b>	<b>\$ 20,000.00</b>	<b>\$ 10,803.81</b>	

(1) Col. (b): Exhibit A-18, Schedule H1, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(2) Col. (b): Exhibit A-18, Schedule H2, Page 1, Line 15; Cols. (c)-(g): Col. (b) \* line 3  
(3) Col. (b): Exhibit A-18, Schedule H3, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 1  
(4) Col. (b): Exhibit A-18, Schedule H7, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(5) Per Exhibit A-16, Schedule F1.2, Page 8, Column (b)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
2028 Year 4  
(\$000)

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 4 of 6

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon
<u>Allocation Factors</u>											
1	Average & Peak (Alloc. 3)	1.0000	0.1659	0.4678	0.0155	0.0067	0.0454	0.0445	0.0612	0.1644	0.0288
2	A&P w/o XXLT (Alloc. 3a)	1.0000	0.1985	0.5598	0.0185	0.0080	0.0543	0.0532	0.0732	-	0.0344
3	Weighted Customers - All (Alloc. 5)	1.0000	0.2248	0.7386	0.0180	0.0030	0.0112	0.0027	0.0010	0.0003	0.0004
4	Customers - All (Alloc. 8)	1.0000	0.0683	0.9265	0.0046	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
<u>Revenue Requirement</u>											
5	GRP - Main Replacement (1)	128,048	25,416	71,687	2,370	1,026	6,950	6,815	9,373	-	4,411
6	GRP - Meter Move-Out (2)	21,596	4,854	15,952	389	64	242	59	21	7	8
7	Pipeline Integrity (3)	6,987	1,159	3,269	108	47	317	311	427	1,149	201
8	Cathodic Protection (4)	4,510	895	2,525	83	36	245	240	330	-	155
9	Total - Revenue Requirement	161,141	32,325	93,432	2,951	1,173	7,753	7,425	10,151	1,156	4,775
10	Customers (5)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
11	Monthly Charge \$/Meter		\$ 29.43	\$ 6.27	\$ 39.66	\$ 452.97	\$ 1,492.17	\$ 7,279.10	\$ 42,296.87	\$ 13,762.26	
12	<b>Maximum customer charge</b>						<b>\$ 3,300</b>	<b>\$ 9,100</b>	<b>\$ 20,000</b>	<b>\$ 230,000</b>	
13	Adjustment for Maximum Cap	(5,351)					-	-	(5,351)	-	
14	Reallocate using Customers (Line 7)	5,351	365	4,958	25	1	2	0	-	0	0
15	Revised Rev Req (Lines 13, 22 & 24)	161,141	32,690	98,390	2,976	1,174	7,755	7,425	4,800	1,156	4,775
16	Customers (Line 14)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
17	Revised Monthly Charge \$/Meter		<b>\$ 29.76</b>	<b>\$ 6.60</b>	<b>\$ 39.99</b>	<b>\$ 453.30</b>	<b>\$ 1,492.50</b>	<b>\$ 7,279.44</b>	<b>\$ 20,000.00</b>	<b>\$ 13,762.59</b>	

(1) Col. (b): Exhibit A-18, Schedule H1, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(2) Col. (b): Exhibit A-18, Schedule H2, Page 1, Line 15; Cols. (c)-(g): Col. (b) \* line 3  
(3) Col. (b): Exhibit A-18, Schedule H3, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 1  
(4) Col. (b): Exhibit A-18, Schedule H7, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(5) Per Exhibit A-16, Schedule F1.2, Page 8, Column (b)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
2029 Year 5  
(\$000)

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 5 of 6

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon
<u>Allocation Factors</u>											
1	Average & Peak (Alloc. 3)	1.0000	0.1659	0.4678	0.0155	0.0067	0.0454	0.0445	0.0612	0.1644	0.0288
2	A&P w/o XXLT (Alloc. 3a)	1.0000	0.1985	0.5598	0.0185	0.0080	0.0543	0.0532	0.0732	-	0.0344
3	Weighted Customers - All (Alloc. 5)	1.0000	0.2248	0.7386	0.0180	0.0030	0.0112	0.0027	0.0010	0.0003	0.0004
4	Customers - All (Alloc. 8)	1.0000	0.0683	0.9265	0.0046	0.0002	0.0003	0.0001	0.0000	0.0000	0.0000
<u>Revenue Requirement</u>											
5	GRP - Main Replacement (1)	162,780	32,310	91,131	3,013	1,305	8,835	8,664	11,915	-	5,607
6	GRP - Meter Move-Out (2)	23,309	5,239	17,217	420	69	261	64	23	8	8
7	Pipeline Integrity (3)	8,257	1,369	3,862	128	55	374	367	505	1,357	238
8	Cathodic Protection (4)	5,732	1,138	3,209	106	46	311	305	420	-	197
9	Total - Revenue Requirement	200,078	40,057	115,420	3,667	1,475	9,781	9,399	12,862	1,365	6,051
10	Customers (5)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
11	Monthly Charge \$/Meter		\$ 36.46	\$ 7.74	\$ 49.28	\$ 569.47	\$ 1,882.49	\$ 9,215.06	\$ 53,592.89	\$ 16,252.82	
12	<b>Maximum customer charge</b>						<b>\$ 3,300</b>	<b>\$ 9,100</b>	<b>\$ 20,000</b>	<b>\$ 230,000</b>	
13	Adjustment for Maximum Cap	(8,180)					-	(117)	(8,062)	-	
14	Reallocate using Customers (Line 7)	8,180	558	7,579	38	1	3	-	-	0	0
15	Revised Rev Req (Lines 13, 22 & 24)	200,078	40,615	122,999	3,705	1,476	9,784	9,282	4,800	1,365	6,051
16	Customers (Line 14)	1,340,887	91,545	1,242,379	6,201	216	433	85	20	7	1
17	Revised Monthly Charge \$/Meter		<b>\$ 36.97</b>	<b>\$ 8.25</b>	<b>\$ 49.79</b>	<b>\$ 569.98</b>	<b>\$ 1,883.00</b>	<b>\$ 9,100.00</b>	<b>\$ 20,000.00</b>	<b>\$ 16,253.33</b>	

(1) Col. (b): Exhibit A-18, Schedule H1, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(2) Col. (b): Exhibit A-18, Schedule H2, Page 1, Line 15; Cols. (c)-(g): Col. (b) \* line 3  
(3) Col. (b): Exhibit A-18, Schedule H3, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 1  
(4) Col. (b): Exhibit A-18, Schedule H7, Page 1, Line 13; Cols. (c)-(g): Col. (b) \* line 2  
(5) Per Exhibit A-16, Schedule F1.2, Page 8, Column (b)

Michigan Public Service Commission  
DTE Gas Company  
Calculation of Monthly Charges for Proposed Infrastructure Recovery Mechanism  
Summary of Monthly Per Meter Charges by Year

Case No: U-21291  
Exhibit: A-18  
Schedule: H4  
Witness: T. J. Krynski  
Page: 6 of 6

Line No.	(a) Description	(b) Rate GS-1/GS-2	(c) Rate A	(d) Rate 2A	(e) Rate S	(f) Rate ST	(g) Rate LT	(h) Rate XLT	(i) Rate XXLT	(j) Source
1	Year									
2	2025	\$ 3.77	\$ 0.80	\$ 5.07	\$ 57.54	\$ 189.18	\$ 921.04	\$ 5,349.26	\$ 2,443.58	Page 1
3	2026	\$ 12.87	\$ 2.74	\$ 17.31	\$ 196.54	\$ 646.23	\$ 3,146.48	\$ 18,274.62	\$ 7,479.91	Page 2
4	2027	\$ 21.67	\$ 4.75	\$ 29.10	\$ 328.60	\$ 1,079.95	\$ 5,257.01	\$ 20,000.00	\$ 10,803.81	Page 3
5	2028	\$ 29.76	\$ 6.60	\$ 39.99	\$ 453.30	\$ 1,492.50	\$ 7,279.44	\$ 20,000.00	\$ 13,762.59	Page 4
6	2029	\$ 36.97	\$ 8.25	\$ 49.79	\$ 569.98	\$ 1,883.00	\$ 9,100.00	\$ 20,000.00	\$ 16,253.33	Page 5

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
Rate Class: Residential  
Rate Schedule: A

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krysinski  
Page: 1 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 18.86	\$ 18.40	\$ (0.46)	-2.42%		
2	5	\$ 60.20	\$ 65.01	\$ 4.81	7.99%	\$ 12.04	\$ 13.00
3	10	\$ 101.53	\$ 111.61	\$ 10.08	9.93%	\$ 10.15	\$ 11.16
4	20	\$ 184.20	\$ 204.82	\$ 20.62	11.19%	\$ 9.21	\$ 10.24
5	25	\$ 225.54	\$ 251.42	\$ 25.88	11.48%	\$ 9.02	\$ 10.06
6	30	\$ 266.87	\$ 298.02	\$ 31.15	11.67%	\$ 8.90	\$ 9.93
7	40	\$ 349.54	\$ 391.23	\$ 41.69	11.93%	\$ 8.74	\$ 9.78
8	50	\$ 432.21	\$ 484.44	\$ 52.22	12.08%	\$ 8.64	\$ 9.69
9	<b>Customer Charge (per Month) /1</b>		<b>\$ 18.86</b>	<b>\$ 18.40</b>			
10	<b>Distribution Charge (per Mcf)</b>		<b>\$ 3.8859</b>	<b>\$ 4.9395</b>			
11	<b>GCR Factor (per Mcf)</b>		<b>\$ 4.381</b>	<b>\$ 4.381</b>			

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
**Rate Class: Residential**  
**Rate Schedule: 2A Meter Class 1**  
**Multiple Family Dwelling Service**

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krysinski  
Page: 2 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 46.64	\$ 22.67	\$ (23.97)	-51.39%		
2	5	\$ 87.98	\$ 69.27	\$ (18.70)	-21.26%	\$ 17.60	\$ 13.85
3	10	\$ 129.31	\$ 115.88	\$ (13.43)	-10.39%	\$ 12.93	\$ 11.59
4	20	\$ 211.98	\$ 209.08	\$ (2.90)	-1.37%	\$ 10.60	\$ 10.45
5	25	\$ 253.32	\$ 255.69	\$ 2.37	0.94%	\$ 10.13	\$ 10.23
6	30	\$ 294.65	\$ 302.29	\$ 7.64	2.59%	\$ 9.82	\$ 10.08
7	40	\$ 377.32	\$ 395.50	\$ 18.18	4.82%	\$ 9.43	\$ 9.89
8	50	\$ 459.99	\$ 488.70	\$ 28.71	6.24%	\$ 9.20	\$ 9.77
9	60	\$ 542.66	\$ 581.91	\$ 39.25	7.23%	\$ 9.04	\$ 9.70
10	70	\$ 625.33	\$ 675.12	\$ 49.78	7.96%	\$ 8.93	\$ 9.64
11	80	\$ 708.00	\$ 768.32	\$ 60.32	8.52%	\$ 8.85	\$ 9.60
12	90	\$ 790.67	\$ 861.53	\$ 70.86	8.96%	\$ 8.79	\$ 9.57
13	100	\$ 873.35	\$ 954.74	\$ 81.39	9.32%	\$ 8.73	\$ 9.55
14	<b>Customer Charge (per Month) /1</b>	<b>\$ 46.64</b>	<b>\$ 22.67</b>				
15	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8859</b>	<b>\$ 4.9395</b>				
16	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.381</b>	<b>\$ 4.381</b>				

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
**Rate Class: Residential**  
**Rate Schedule: 2A Meter Class 2**  
**Multiple Family Dwelling Service**

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krysinski  
Page: 3 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 73.14	\$ 55.07	\$ (18.07)	-24.71%		
2	100	\$ 899.85	\$ 987.14	\$ 87.29	9.70%	\$ 9.00	\$ 9.87
3	200	\$ 1,726.55	\$ 1,919.20	\$ 192.65	11.16%	\$ 8.63	\$ 9.60
4	300	\$ 2,553.26	\$ 2,851.27	\$ 298.02	11.67%	\$ 8.51	\$ 9.50
5	400	\$ 3,379.96	\$ 3,783.34	\$ 403.38	11.93%	\$ 8.45	\$ 9.46
6	500	\$ 4,206.67	\$ 4,715.41	\$ 508.74	12.09%	\$ 8.41	\$ 9.43
7	600	\$ 5,033.37	\$ 5,647.47	\$ 614.10	12.20%	\$ 8.39	\$ 9.41
8	700	\$ 5,860.08	\$ 6,579.54	\$ 719.46	12.28%	\$ 8.37	\$ 9.40
9	800	\$ 6,686.78	\$ 7,511.61	\$ 824.82	12.34%	\$ 8.36	\$ 9.39
10	900	\$ 7,513.49	\$ 8,443.67	\$ 930.19	12.38%	\$ 8.35	\$ 9.38
11	1000	\$ 8,340.19	\$ 9,375.74	\$ 1,035.55	12.42%	\$ 8.34	\$ 9.38
12	1500	\$ 12,473.72	\$ 14,036.07	\$ 1,562.36	12.53%	\$ 8.32	\$ 9.36
13	2000	\$ 16,607.24	\$ 18,696.41	\$ 2,089.17	12.58%	\$ 8.30	\$ 9.35
14	<b>Customer Charge (per Month) /1</b>	<b>\$ 73.14</b>	<b>\$ 55.07</b>				
15	<b>Distribution Charge (per Mcf)</b>	<b>\$ 3.8859</b>	<b>\$ 4.9395</b>				
16	<b>GCR Factor (per Mcf)</b>	<b>\$ 4.3812</b>	<b>\$ 4.3812</b>				

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
Rate Class: Non-Residential General Service  
Rate Schedule: GS-1

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krysinski  
Page: 4 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 63.83	\$ 53.77	\$ (10.06)	-15.76%		
2	5	\$ 104.77	\$ 99.66	\$ (5.11)	-4.88%	\$ 20.95	\$ 19.93
3	10	\$ 145.71	\$ 145.55	\$ (0.16)	-0.11%	\$ 14.57	\$ 14.56
4	20	\$ 227.59	\$ 237.33	\$ 9.74	4.28%	\$ 11.38	\$ 11.87
5	25	\$ 268.53	\$ 283.22	\$ 14.69	5.47%	\$ 10.74	\$ 11.33
6	30	\$ 309.47	\$ 329.11	\$ 19.64	6.35%	\$ 10.32	\$ 10.97
7	40	\$ 391.35	\$ 420.90	\$ 29.54	7.55%	\$ 9.78	\$ 10.52
8	50	\$ 473.23	\$ 512.68	\$ 39.44	8.34%	\$ 9.46	\$ 10.25
9	60	\$ 555.11	\$ 604.46	\$ 49.35	8.89%	\$ 9.25	\$ 10.07
10	70	\$ 636.99	\$ 696.24	\$ 59.25	9.30%	\$ 9.10	\$ 9.95
11	80	\$ 718.87	\$ 788.02	\$ 69.15	9.62%	\$ 8.99	\$ 9.85
12	90	\$ 800.75	\$ 879.80	\$ 79.05	9.87%	\$ 8.90	\$ 9.78
13	100	\$ 882.64	\$ 971.59	\$ 88.95	10.08%	\$ 8.83	\$ 9.72
14	<b>Customer Charge (per Month) /1</b>		<b>\$ 63.83</b>	<b>\$ 53.77</b>			
15	<b>Distribution Charge (per Mcf)</b>		<b>\$ 3.8069</b>	<b>\$ 4.7970</b>			
16	<b>GCR Factor (per Mcf)</b>		<b>\$ 4.3812</b>	<b>\$ 4.3812</b>			

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
Rate Class: General Service (Large Volume)  
Rate Schedule: GS-2

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krynski  
Page: 5 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 773.83	\$ 928.77	\$ 154.94	20.02%		
2	100	\$ 1,531.79	\$ 1,771.59	\$ 239.80	15.65%	\$ 15.32	\$ 17.72
3	200	\$ 2,289.74	\$ 2,614.40	\$ 324.66	14.18%	\$ 11.45	\$ 13.07
4	300	\$ 3,047.70	\$ 3,457.22	\$ 409.53	13.44%	\$ 10.16	\$ 11.52
5	400	\$ 3,805.65	\$ 4,300.04	\$ 494.39	12.99%	\$ 9.51	\$ 10.75
6	500	\$ 4,563.61	\$ 5,142.86	\$ 579.25	12.69%	\$ 9.13	\$ 10.29
7	600	\$ 5,321.56	\$ 5,985.67	\$ 664.11	12.48%	\$ 8.87	\$ 9.98
8	700	\$ 6,079.52	\$ 6,828.49	\$ 748.98	12.32%	\$ 8.69	\$ 9.75
9	800	\$ 6,837.47	\$ 7,671.31	\$ 833.84	12.20%	\$ 8.55	\$ 9.59
10	900	\$ 7,595.43	\$ 8,514.13	\$ 918.70	12.10%	\$ 8.44	\$ 9.46
11	1000	\$ 8,353.38	\$ 9,356.95	\$ 1,003.56	12.01%	\$ 8.35	\$ 9.36

12	Customer Charge (per Month) /1	\$ 773.83	\$ 928.77
13	Distribution Charge (per Mcf)	\$ 3.1984	\$ 4.0470
14	GCR Factor (per Mcf)	\$ 4.381	\$ 4.381

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

Michigan Public Service Commission  
DTE Gas Company  
Comparison of Typical Bills Under Current and Proposed Rates Including IRM  
Rate Class: Schools  
Rate Schedule: S

Case No: U-21291  
Exhibit: A-18  
Schedule: H5  
Witness: T. J. Krysinski  
Page: 6 of 6

Line No.	(a) Distribution Volumes (Mcf)	(b) Current Monthly Bill	(c) Proposed Monthly Bill	(d) Increase/ (Decrease) (Col. c - Col. b)	(e) Percent Change (Col. d / Col. b)	(f) Current Unit Costs Per MCF (Col. b / Col. a)	(g) Proposed Unit Costs Per MCF (Col. c / Col. a)
1	0	\$ 538.73	\$ 332.54	\$ (206.19)	-38.27%		
2	100	\$ 1,254.21	\$ 1,097.12	\$ (157.09)	-12.52%	\$ 12.54	\$ 10.97
3	200	\$ 1,969.68	\$ 1,861.69	\$ (107.99)	-5.48%	\$ 9.85	\$ 9.31
4	300	\$ 2,685.16	\$ 2,626.27	\$ (58.89)	-2.19%	\$ 8.95	\$ 8.75
5	400	\$ 3,400.63	\$ 3,390.84	\$ (9.79)	-0.29%	\$ 8.50	\$ 8.48
6	500	\$ 4,116.11	\$ 4,155.42	\$ 39.31	0.96%	\$ 8.23	\$ 8.31
7	600	\$ 4,831.58	\$ 4,919.99	\$ 88.41	1.83%	\$ 8.05	\$ 8.20
8	700	\$ 5,547.06	\$ 5,684.57	\$ 137.51	2.48%	\$ 7.92	\$ 8.12
9	800	\$ 6,262.53	\$ 6,449.14	\$ 186.61	2.98%	\$ 7.83	\$ 8.06
10	900	\$ 6,978.01	\$ 7,213.72	\$ 235.71	3.38%	\$ 7.75	\$ 8.02
11	1000	\$ 7,693.48	\$ 7,978.29	\$ 284.81	3.70%	\$ 7.69	\$ 7.98

12	Customer Charge (per Month) /1	\$ 538.73	\$ 332.54
13	Distribution Charge (per Mcf)	\$ 2.7736	\$ 3.2646
14	GCR Factor (per Mcf)	\$ 4.381	\$ 4.381

/1 - Current charge includes the 2025 IRM charge approved in U-20940; Proposed charge includes 2025 IRM charge per line 1, page 6 of Exhibit A-18, Schedule H4

**Michigan Public Service Commission**  
**DTE Gas Company**  
**Infrastructure Recovery Mechanism - Under Spend Impact**  
**(\$000)**

Case No.: U-21291  
 Exhibit: A-18  
 Schedule: H6  
 Witness: K. M. Vangilder  
 Page: 1 of 2

Line No.	(a) Description	(b) Source	(c) Year 1	(d) Year 2
1	<b>Capital Investment</b>			
2	Capital Under Spend		\$ (1,000)	\$ -
3	<b>Net Rate Base</b>			
4	Cumulative Capital Investment	Prior Yr plus L2	\$ (1,000)	\$ (1,000)
5	Accumulated Depreciation	Prior Yr plus - L11	13	38
6	Accum. Deferred Taxes	Exh A-18, Sch H6, P2, L6	7	19
7	Ending Net Rate Base	Sum of L4 thru L6	\$ (981)	\$ (943)
8	Average Net Rate Base	L7 (PY+CY)/2	(490)	(962)
9	<b>Total Cost of Service</b>			
10	Return on Net Rate Base	L8 * 9.31% (1)	(46)	(90)
11	Depreciation (1/2 yr conv.)	(2)	(13)	(25)
12	Property Taxes	Exh A-18, Sch H6 ,P2, L20	-	(27)
13	Total Cost of Service (COS) Requirement	L10 thru L12	\$ (58)	\$ (142)
14	Number of Customers	Exh A-13, Sch C3.1, L7	1,340,341	1,340,341
15	Monthly cost reduction per customer	L13 / L14 /12 * 1000	\$ (0.0036)	\$ (0.0088)
16	Summation of Year 1 and Year 2	Line 15, Col (c) + Col (d)		\$ (0.0125)
17	Average Rate Reduction	(Line 15 + Line 16)/2		\$ (0.0106)

(1) Pre-tax rate of return  
 Exhibit A-14, Schedule D1

	<u>Weighted Cost</u>	<u>Pre-tax Multiplier</u>	<u>Pre-tax Rate of Return</u>
Long-Term Debt	2.16%	1.000	2.16%
Common Equity	<u>5.28%</u>	1.355	<u>7.15%</u>
Total	7.44%		9.31%

(2) Depreciation rates based on the proposed rates within this case on workpaper TMU-10

		<u>Program Spend (\$000)</u>	<u>Weighting</u>
Distribution Mains-Plastic	2.47%	Main Replacement 1,370,000	82.2%
Distribution Meters	3.36%	Meter Moveout 176,045	10.6%
Distribution Mains - Metallic	2.55%	Cathodic Protection 48,000	2.9%
Transmission Mains	<u>1.61%</u>	Pipeline Integrity 72,060	4.3%
Weighted Rate	2.53%	1,666,105	

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Under Spend Impact  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H6  
Witness: K. M. Vangilder  
Page: 2 of 2

Line No.	(a) Description	(b) Source	(c) (d)	
			Year 1	Year 2
1	<b><u>Deferred Tax Expense</u></b>			
2	Tax Depreciation	Line 11	(38)	(72)
3	Book Depreciation	Exh A-18, Sch H6, P1, L11	(13)	(25)
4	Timing Difference	Line 2 - Line 3	(25)	(47)
5	Deferred Tax Expense	Line 4 X 26.2%	\$ (7)	\$ (12)
6	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ (7)	\$ (19)
7	<b><u>Tax Depreciation</u></b>		<b><u>Year 1</u></b>	<b><u>Year 2</u></b>
8	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%
9	Year 1 Additions	Cost x MACRS Tax Rate	(38)	(72)
10	Year 2 Additions	Cost x MACRS Tax Rate	-	-
11	Total Tax Depreciation	Sum of L9 thru L10	<u>\$ (38)</u>	<u>\$ (72)</u>
12	<b><u>Property Tax</u></b>		<b><u>Year 1</u></b>	<b><u>Year 2</u></b>
13	Factor	WP-SLW-1	0.93	0.87
14				
15	Year 1 Taxable Value	Cost x Factor x 50%	(465)	(435)
16	Year 2 Taxable Value	Cost x Factor x 50%	-	-
17	Total Taxable Value	Sum of L15 thru L16	\$ (465)	\$ (435)
18	Millage	Exh. A-13, Sch C7.1	58.500	58.500
19	Property Tax Assessed	L17 x L18	\$ (27)	\$ (25)
20	Property Tax Expense (Year lag)		\$ -	\$ (27)

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Cathodic Protection  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H7  
Witness: K. M. Vangilder  
Page: 1 of 2

Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029	(h) Total
1	<b>Capital Investment</b>							
2	Cathodic Protection	Exh. A-12, Sch. B5.3, L7	\$ 9,600	\$ 9,600	\$ 9,600	\$ 9,600	\$ 9,600	\$ 48,000
3	<b>Net Rate Base</b>							
4	Cumulative Capital Investment	Prior Yr plus Line2	\$ 9,600	\$ 19,200	\$ 28,800	\$ 38,400	\$ 48,000	
5	Accumulated Depreciation	Prior Yr plus Line -11	(122)	(490)	(1,102)	(1,958)	(3,060)	
6	Accum. Deferred Taxes	Exh A-18, Sch H3, P2, L6	(62)	(242)	(525)	(900)	(1,354)	
7	Ending Net Rate Base	Sum of Line 4 thru L6	9,415	18,468	27,173	35,541	43,586	
8	Average Net Rate Base	L7 (PY+CY)/2	4,708	13,942	22,821	31,357	39,564	
9	<b>Total Cost of Service</b>							
10	Return on Net Rate Base	L8 * 9.31% (1)	438	1,298	2,125	2,920	3,684	10,467
11	Depreciation (1/2 yr conv.)	(2)	122	367	612	857	1,102	3,060
12	Property Taxes	Exh A-18, Sch H3, P2, L25	-	261	505	733	946	2,446
13	Total Cost of Service (COS) Requirement	L10 thru L12	\$ 561	\$ 1,927	\$ 3,243	\$ 4,510	\$ 5,732	\$ 15,973

(1) Pre-tax rate of return  
Exhibit A-14, Schedule D1

	Weighted Cost	Pre-tax Multiplier	Pre-tax Rate of Return
Long-Term Debt	2.16%	1.000	2.16%
Common Equity	5.28%	1.355	7.15%
Total	7.44%		9.31%

(2) Depreciation rate for Distribution Mains - Metallic is 2.55% based on the proposed rates within 2023 DTE Gas Depreciation Case U-21384

Michigan Public Service Commission  
DTE Gas Company  
Infrastructure Recovery Mechanism - Cathodic Protection  
Incremental Revenue Requirement  
(\$000)

Case No.: U-21291  
Exhibit: A-18  
Schedule: H7  
Witness: K. M. Vangilder  
Page: 2 of 2

Line No.	(a) Description	(b) Source	(c) Year 1 2025	(d) Year 2 2026	(e) Year 3 2027	(f) Year 4 2028	(g) Year 5 2029
1	<b>Deferred Tax Expense</b>						
2	Tax Depreciation	Line 14	360	1,053	1,694	2,287	2,835
3	Book Depreciation	Exh A-18, Sch H3, P1, L11	122	367	612	857	1,102
4	Timing Difference	Line 2 - Line 3	238	686	1,082	1,430	1,733
5	Deferred Tax Expense	Line 4 X 26.2%	62	180	283	375	454
6	Accum. Deferred Tax Expense	Prior Yr plus L5	\$ 62	\$ 242	\$ 525	\$ 900	\$ 1,354
7	<b>Tax Depreciation</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
8	MACRS Tax Depr Rate (20 Year)		3.750%	7.219%	6.677%	6.177%	5.713%
9	Year 1 Additions	Cost x MACRS Tax Rate	360	693	641	593	548
10	Year 2 Additions	Cost x MACRS Tax Rate		360	693	641	593
11	Year 3 Additions	Cost x MACRS Tax Rate			360	693	641
12	Year 4 Additions	Cost x MACRS Tax Rate				360	693
13	Year 5 Additions	Cost x MACRS Tax Rate	-	-	-	-	360
14	Total Tax Depreciation	Sum of L9 thru L13	\$ 360	\$ 1,053	\$ 1,694	\$ 2,287	\$ 2,835
15	<b>Property Tax</b>		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
16	Factor	WP-SLW-1	0.93	0.87	0.81	0.76	0.71
17	Year 1 Taxable Value	Cost x Factor x 50%	4,464	4,176	3,888	3,648	3,408
18	Year 2 Taxable Value	Cost x Factor x 50%		4,464	4,176	3,888	3,648
19	Year 3 Taxable Value	Cost x Factor x 50%			4,464	4,176	3,888
20	Year 4 Taxable Value	Cost x Factor x 50%				4,464	4,176
21	Year 5 Taxable Value	Cost x Factor x 50%	-	-	-	-	4,464
22	Total Taxable Value	Sum of L17 thru L21	\$ 4,464	\$ 8,640	\$ 12,528	\$ 16,176	\$ 19,584
23	Millage	Exh. A-13, Sch C7.1	58.500	58.500	58.500	58.500	58.500
24	Property Tax Assessed	L22 x L23	\$ 261	\$ 505	\$ 733	\$ 946	\$ 1,146
25	Property Tax Expense (Year lag)			\$ 261	\$ 505	\$ 733	\$ 946



Michigan Public Service Commission  
DTE Gas Company  
2023 Annual Incentive Plan and Rewarding Employees Plan Metrics:  
DTE Gas Company

Case No.: U-21291  
Exhibit: A-19  
Schedule: I2  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Category	(b) Measure	(c) Weight		(e) Threshold	(f) Target	(g) Maximum
			AIP	REP			
1	Financial Performance						
2		DTE Gas Operating Earnings	15.00%	15.00%	\$265	\$275	\$285
3							
4		DTE Gas Cash From Operations	15.00%	15.00%	\$536	\$595	\$655
5							
6		DTE Energy Operating Earnings Per Share	10.00%	10.00%	\$6.10	\$6.25	\$6.40
7							
8	Total Financial Measures		40.00%	40.00%			
9							
10	Customer Satisfaction						
11		Net Promoter Score	12.00%	12.00%	35	39	43
12							
13		MPSC Customer Complaints	8.00%	8.00%	2,008	1,912	1,816
14							
15			20.00%	20.00%			
16	Safety & Engagement						
17		DTE Gas Employee Engagement-Gallup	5.00%	0.00%	4.17	4.26	4.45
18							
19		DTE Gas OSHA Recordable Incident Rate	5.00%	10.00%	1.15	0.80	0.59
20							
21		DTE Energy High Energy Serious Injury or Fatality	5.00%	5.00%	4	2	0
22							
23			15.00%	15.00%			
24	Operating Excellence						
25		Gas Open Leak Balance	5.00%	5.00%	2,498	1,922	1,345
26							
27		Gas Distribution Response Time	5.00%	5.00%	22.35	21.25	20.15
28							
29		% of HCA Miles Assessable by In Line Inspection	10.00%	10.00%	95.4%	95.5%	95.8%
30							
31		% of High Population Miles with TVC					
32		Pressure Test Records Remediated	5.00%	5.00%	8.07%	8.15%	8.95%
33							
34			25.00%	25.00%			
35							
36	Total Operating Measures		60.00%	60.00%			
37							
38	Total		100.00%	100.00%			

Michigan Public Service Commission  
DTE Gas Company  
2023 Annual Incentive Plan and Rewarding Employees Plan Metrics:  
DTE Energy Corporate Services LLC

Case No.: U-21291  
Exhibit: A-19  
Schedule: I3  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Category	(b) Measure	(c) Weight		(d)	(e) Threshold	(f) Target	(g) Maximum
			AIP	REP				
1	Financial Performance							
2		DTE Energy Operating Earnings Per Share	20.00%	20.00%	\$6.10	\$6.25	\$6.40	
3								
4		DTE Energy Cash From Operations	20.00%	20.00%	\$2,746	\$3,051	\$3,356	
5								
6	Total Financial Measures		40.00%	40.00%				
7								
8	Customer Satisfaction							
9		Net Promoter Score	12.00%	12.00%	35	39	43	
10								
11		MPSC Customer Complaints	8.00%	8.00%	2,008	1,912	1,816	
12								
13			20.00%	20.00%				
14	Safety & Engagement							
15		DTE Energy Employee Engagement-Gallup	5.00%	0.00%	4.17	4.26	4.45	
16								
17		DTE Energy OSHA Recordable Incident Rate	5.00%	10.00%	0.68	0.55	0.42	
18								
19		DTE Energy High Energy Serious Injury or Fatality	5.00%	5.00%	4	2	0	
20								
21			15.00%	15.00%				
22	Operating Excellence:Gas							
23		% of HCA Miles Assessable by In Line Inspection	25.00%	25.00%	95.4%	95.5%	95.8%	
24								
25			25.00%	25.00%				
26								
27	Total Operating Measures		60.00%	60.00%				
28								
29	Total		100.00%	100.00%				

Michigan Public Service Commission  
DTE Gas Company  
2023 Long-Term Incentive Plan Metrics

Case No.: U-21291  
Exhibit: A-19  
Schedule: I4  
Witness: M. S. Cooper  
Page: 1 of 1

<u>Line No.</u>	<u>Description</u>	<u>Weight</u>		<u>Threshold</u>	<u>Target</u>	<u>Maximum</u>
		<u>DTE Gas</u>	<u>DTE Energy Corporate Services LLC</u>			
1	Total DTE Energy Shareholder Return vs. Peer Group	80%	80%	25th Percentile	55th Percentile	80th Percentile
2	Three Year Cumulative Operating EPS	20%	20%	Board Approved	Board Approved	Board Approved
3	Total	100%	100%			

Michigan Public Service Commission  
DTE Gas Company  
2023 Incentive Plans Cost/Benefit Analysis  
(\$000's)

Case No.: U-21291  
Exhibit: A-19  
Schedule: I5  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Description	(b) Long Term Incentive Plan			(e) Annual Incentive Plan			(h) Rewarding Employees Plan			(k) Total Incentive Plans		
		(c) Expense	(c) Benefit	(d) Net	(e) Expense	(f) Benefit	(g) Net	(h) Expense	(i) Benefit	(j) Net	(k) Expense	(l) Benefit	(m) Net
1	Financial Performance												
2	Total DTE Energy Shareholder Return vs. Peer Group	4,651	0	4,651							4,651	0	4,651
3													
4	Three Year Cumulative Operating EPS	1,163	0	1,163							1,163	0	1,163
5													
6	DTE Gas Operating Earnings				77	0	77	935	0	935	1,012	0	1,012
7													
8	DTE Gas Cash From Operations				77	(1,818)	(1,740)	935	(4,316)	(3,381)	1,012	(6,133)	(5,121)
9													
10	DTE Energy Operating Earnings Per Share				653	0	653	1,747	0	1,747	2,400	0	2,400
11													
12	DTE Energy Cash From Operations				601	0	601	1,124	0	1,124	1,725	0	1,725
13													
14	Total Financial Measures	5,814	0	5,814	1,408	(1,818)	(409)	4,741	(4,316)	425	11,963	(6,133)	5,830
15													
16	Customer Satisfaction												
17	Net Promoter Score				329	(492)	(163)	925	(1,031)	(106)	1,254	(1,523)	(270)
18													
19	MPSC Customer Complaints				219	(19)	200	617	(39)	577	836	(58)	778
20													
21	Total Customer Satisfaction Measures				548	(511)	37	1,542	(1,071)	471	2,090	(1,581)	508
22													
23	Safety & Engagement												
24	Employee Engagement-Gallup				137	(2,618)	(2,481)	0	0	0	137	(2,618)	(2,481)
25													
26	OSHA Recordable Incident Rate				137	(183)	(46)	771	(384)	387	908	(567)	341
27													
28	DTE Energy High Energy Serious Injury or Fatality				137	(183)	(46)	385	(384)	2	522	(567)	(44)
29													
30	Total Employee Engagement Measures				411	(2,984)	(2,573)	1,156	(768)	389	1,567	(3,752)	(2,185)
31													
32	Operating Excellence												
33	Gas Open Leak Balance				13	(400)	(388)	153	(3,201)	(3,048)	166	(3,602)	(3,436)
34													
35	Gas Distribution Response Time				13	(6)	6	153	(51)	102	166	(57)	109
36													
37	Percent of HCA Miles Assessable by In Line Inspection				25	(808)	(782)	306	(1,388)	(1,082)	331	(2,195)	(1,864)
38													
39	Percent of High Population Miles with TVC												
40	Pressure Test Records Remediated				634	(197)	437	1,315	(1,558)	(243)	1,949	(1,755)	194
41													
42	Total Operating Excellence				685	(1,411)	(727)	1,927	(6,197)	(4,270)	2,612	(7,609)	(4,997)
43													
44	Total Operating Measures				1,644	(4,906)	(3,263)	4,625	(8,036)	(3,411)	6,269	(12,942)	(6,673)
45													
46	Total	5,814	0	5,814	3,052	(6,724)	(3,672)	9,366	(12,351)	(2,986)	18,232	(19,075)	(844)



Michigan Public Service Commission  
DTE Gas Company  
2023 Annual Incentive Plan and Rewarding Employees Plan Metrics:  
DTE Gas Company

Case No.: U-21291  
Exhibit: A-19  
Schedule: I2  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Category	(b) Measure	(c) Weight		(e) Threshold	(f) Target	(g) Maximum
			AIP	REP			
1	Financial Performance						
2		DTE Gas Operating Earnings	15.00%	15.00%	\$265	\$275	\$285
3							
4		DTE Gas Cash From Operations	15.00%	15.00%	\$536	\$595	\$655
5							
6		DTE Energy Operating Earnings Per Share	10.00%	10.00%	\$6.10	\$6.25	\$6.40
7							
8	Total Financial Measures		40.00%	40.00%			
9							
10	Customer Satisfaction						
11		Net Promoter Score	12.00%	12.00%	35	39	43
12							
13		MPSC Customer Complaints	8.00%	8.00%	2,008	1,912	1,816
14							
15			20.00%	20.00%			
16	Safety & Engagement						
17		DTE Gas Employee Engagement-Gallup	5.00%	0.00%	4.17	4.26	4.45
18							
19		DTE Gas OSHA Recordable Incident Rate	5.00%	10.00%	1.15	0.80	0.59
20							
21		DTE Energy High Energy Serious Injury or Fatality	5.00%	5.00%	4	2	0
22							
23			15.00%	15.00%			
24	Operating Excellence						
25		Gas Open Leak Balance	5.00%	5.00%	2,498	1,922	1,345
26							
27		Gas Distribution Response Time	5.00%	5.00%	22.35	21.25	20.15
28							
29		% of HCA Miles Assessable by In Line Inspection	10.00%	10.00%	95.4%	95.5%	95.8%
30							
31		% of High Population Miles with TVC					
32		Pressure Test Records Remediated	5.00%	5.00%	8.07%	8.15%	8.95%
33							
34			25.00%	25.00%			
35							
36	Total Operating Measures		60.00%	60.00%			
37							
38	Total		100.00%	100.00%			

Michigan Public Service Commission  
DTE Gas Company  
2023 Annual Incentive Plan and Rewarding Employees Plan Metrics:  
DTE Energy Corporate Services LLC

Case No.: U-21291  
Exhibit: A-19  
Schedule: I3  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Category	(b) Measure	(c) Weight		(d)	(e) Threshold	(f) Target	(g) Maximum
			AIP	REP				
1	Financial Performance							
2		DTE Energy Operating Earnings Per Share	20.00%	20.00%	\$6.10	\$6.25	\$6.40	
3								
4		DTE Energy Cash From Operations	20.00%	20.00%	\$2,746	\$3,051	\$3,356	
5								
6	Total Financial Measures		40.00%	40.00%				
7								
8	Customer Satisfaction							
9		Net Promoter Score	12.00%	12.00%	35	39	43	
10								
11		MPSC Customer Complaints	8.00%	8.00%	2,008	1,912	1,816	
12								
13			20.00%	20.00%				
14	Safety & Engagement							
15		DTE Energy Employee Engagement-Gallup	5.00%	0.00%	4.17	4.26	4.45	
16								
17		DTE Energy OSHA Recordable Incident Rate	5.00%	10.00%	0.68	0.55	0.42	
18								
19		DTE Energy High Energy Serious Injury or Fatality	5.00%	5.00%	4	2	0	
20								
21			15.00%	15.00%				
22	Operating Excellence:Gas							
23		% of HCA Miles Assessable by In Line Inspection	25.00%	25.00%	95.4%	95.5%	95.8%	
24								
25			25.00%	25.00%				
26								
27	Total Operating Measures		60.00%	60.00%				
28								
29	Total		100.00%	100.00%				

Michigan Public Service Commission  
DTE Gas Company  
2023 Long-Term Incentive Plan Metrics

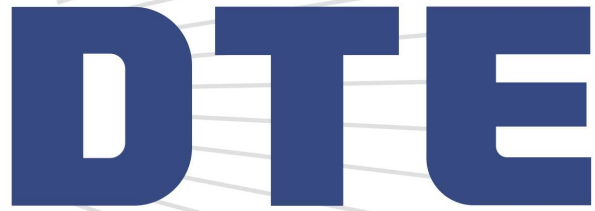
Case No.: U-21291  
Exhibit: A-19  
Schedule: I4  
Witness: M. S. Cooper  
Page: 1 of 1

<u>Line No.</u>	<u>Description</u>	<u>Weight</u>		<u>Threshold</u>	<u>Target</u>	<u>Maximum</u>
		<u>DTE Gas</u>	<u>DTE Energy Corporate Services LLC</u>			
1	Total DTE Energy Shareholder Return vs. Peer Group	80%	80%	25th Percentile	55th Percentile	80th Percentile
2	Three Year Cumulative Operating EPS	20%	20%	Board Approved	Board Approved	Board Approved
3	Total	100%	100%			

Michigan Public Service Commission  
DTE Gas Company  
2023 Incentive Plans Cost/Benefit Analysis  
(\$000's)

Case No.: U-21291  
Exhibit: A-19  
Schedule: I5  
Witness: M. S. Cooper  
Page: 1 of 1

Line No.	(a) Description	(b) Long Term Incentive Plan			(e) Annual Incentive Plan			(h) Rewarding Employees Plan			(k) Total Incentive Plans		
		(c) Expense	(c) Benefit	(d) Net	(e) Expense	(f) Benefit	(g) Net	(h) Expense	(i) Benefit	(j) Net	(k) Expense	(l) Benefit	(m) Net
1	Financial Performance												
2	Total DTE Energy Shareholder Return vs. Peer Group	4,651	0	4,651							4,651	0	4,651
3													
4	Three Year Cumulative Operating EPS	1,163	0	1,163							1,163	0	1,163
5													
6	DTE Gas Operating Earnings				77	0	77	935	0	935	1,012	0	1,012
7													
8	DTE Gas Cash From Operations				77	(1,818)	(1,740)	935	(4,316)	(3,381)	1,012	(6,133)	(5,121)
9													
10	DTE Energy Operating Earnings Per Share				653	0	653	1,747	0	1,747	2,400	0	2,400
11													
12	DTE Energy Cash From Operations				601	0	601	1,124	0	1,124	1,725	0	1,725
13													
14	Total Financial Measures	5,814	0	5,814	1,408	(1,818)	(409)	4,741	(4,316)	425	11,963	(6,133)	5,830
15													
16	Customer Satisfaction												
17	Net Promoter Score				329	(492)	(163)	925	(1,031)	(106)	1,254	(1,523)	(270)
18													
19	MPSC Customer Complaints				219	(19)	200	617	(39)	577	836	(58)	778
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21	Total Customer Satisfaction Measures				548	(511)	37	1,542	(1,071)	471	2,090	(1,581)	508
22													
23	Safety & Engagement												
24	Employee Engagement-Gallup				137	(2,618)	(2,481)	0	0	0	137	(2,618)	(2,481)
25													
26	OSHA Recordable Incident Rate				137	(183)	(46)	771	(384)	387	908	(567)	341
27													
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30	Total Employee Engagement Measures				411	(2,984)	(2,573)	1,156	(768)	389	1,567	(3,752)	(2,185)
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34													
35	Gas Distribution Response Time				13	(6)	6	153	(51)	102	166	(57)	109
36													
37	Percent of HCA Miles Assessable by In Line Inspection				25	(808)	(782)	306	(1,388)	(1,082)	331	(2,195)	(1,864)
38													
39	Percent of High Population Miles with TVC												
40	Pressure Test Records Remediated				634	(197)	437	1,315	(1,558)	(243)	1,949	(1,755)	194
41													
42	Total Operating Excellence				685	(1,411)	(727)	1,927	(6,197)	(4,270)	2,612	(7,609)	(4,997)
43													
44	Total Operating Measures				1,644	(4,906)	(3,263)	4,625	(8,036)	(3,411)	6,269	(12,942)	(6,673)
45													
46	Total	5,814	0	5,814	3,052	(6,724)	(3,672)	9,366	(12,351)	(2,986)	18,232	(19,075)	(844)



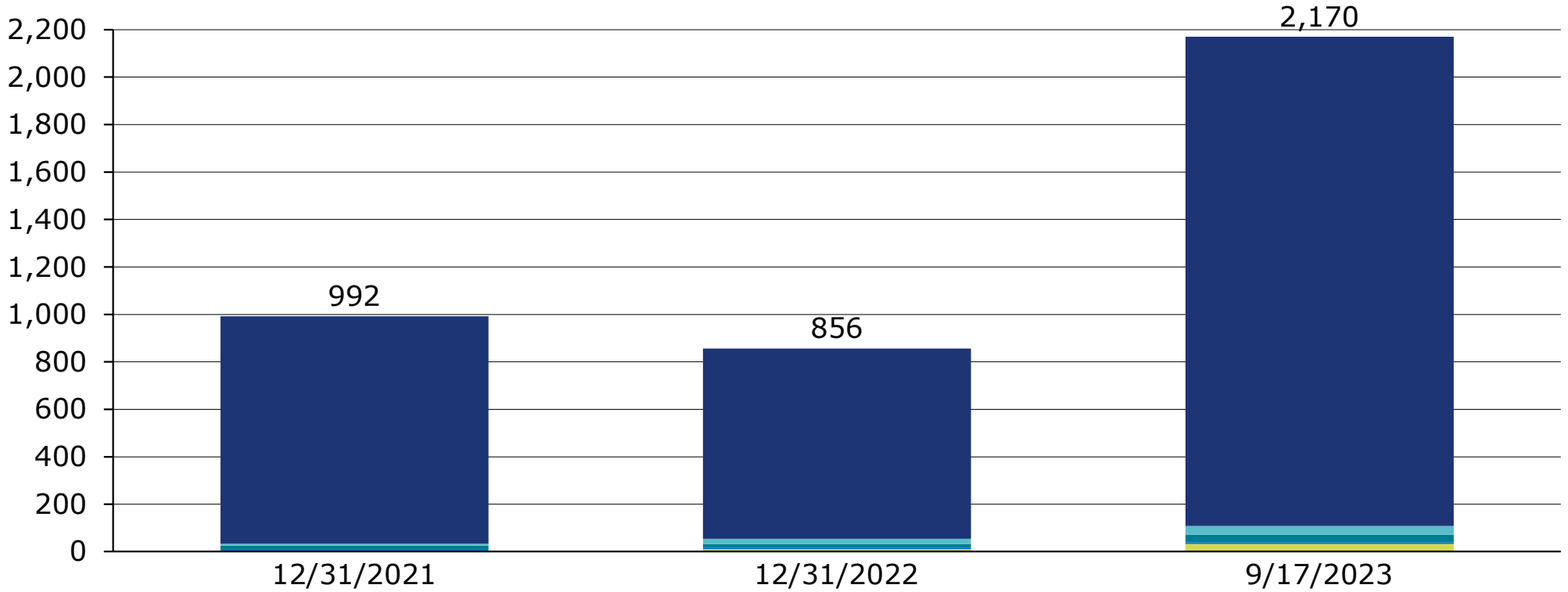
## Leak Status

September 2023

Leak Remediation Plan	2021	2022	2023*	2024*
Beginning Inventory Balance	2,066	992	856	1,922
Incoming Leaks	5,924	5,303	6,556	6,031
Incoming Leaks Repaired	5,924	5,303	5,490	6,031
Inventory Leaks Repaired	1,074	136	-	672
Total Leaks Repaired	6,998	5,439	5,490	6,703
Ending Inventory Balance	992	856	1,922	1,250

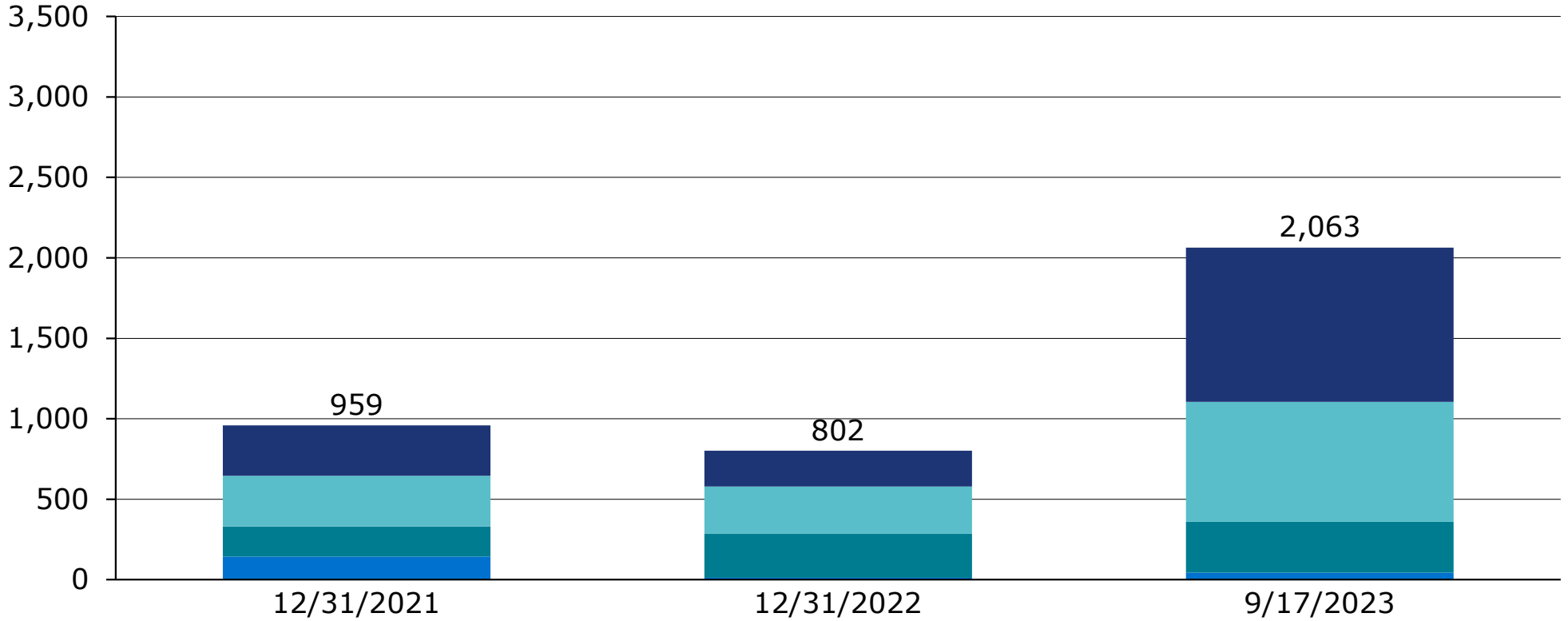
\*- Forecast

## Total Pending Leaks Statewide by Region



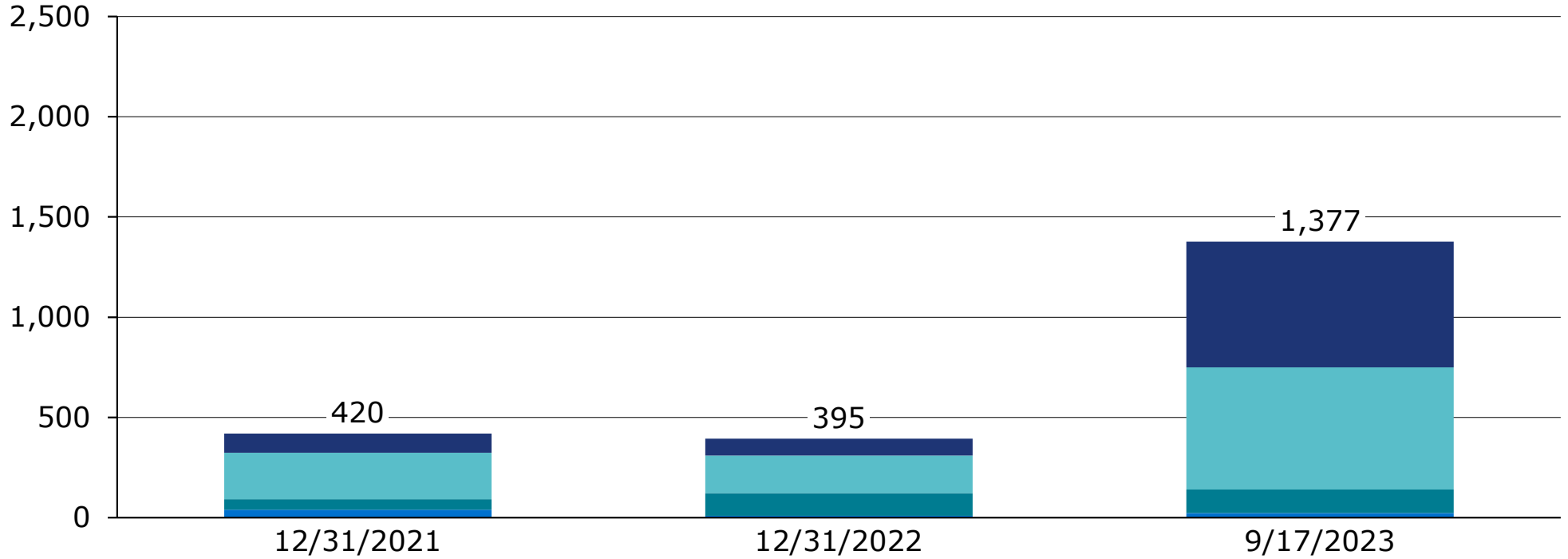
<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> Southeast	959	802	2,063
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Grand Rapids	9	24	37
<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> Western	17	15	31
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> Central	4	6	8
<span style="display:inline-block; width:15px; height:15px; background-color:yellowgreen;"></span> Northern	3	9	31
<b>Total</b>	<b>992</b>	<b>856</b>	<b>2,170</b>

## Total Pending Leaks Southeast Region

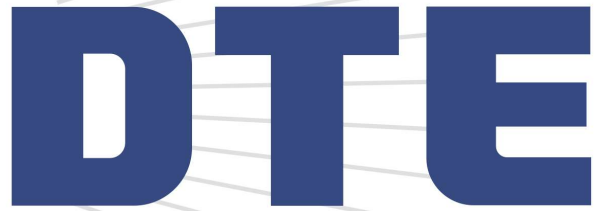


Allen Road	313	222	957
Lynch Road	315	294	746
Michigan Avenue	188	275	318
ICM	143	11	42
<b>Total</b>	<b>959</b>	<b>802</b>	<b>2,063</b>

## Total Pending Main Leaks Southeast Region



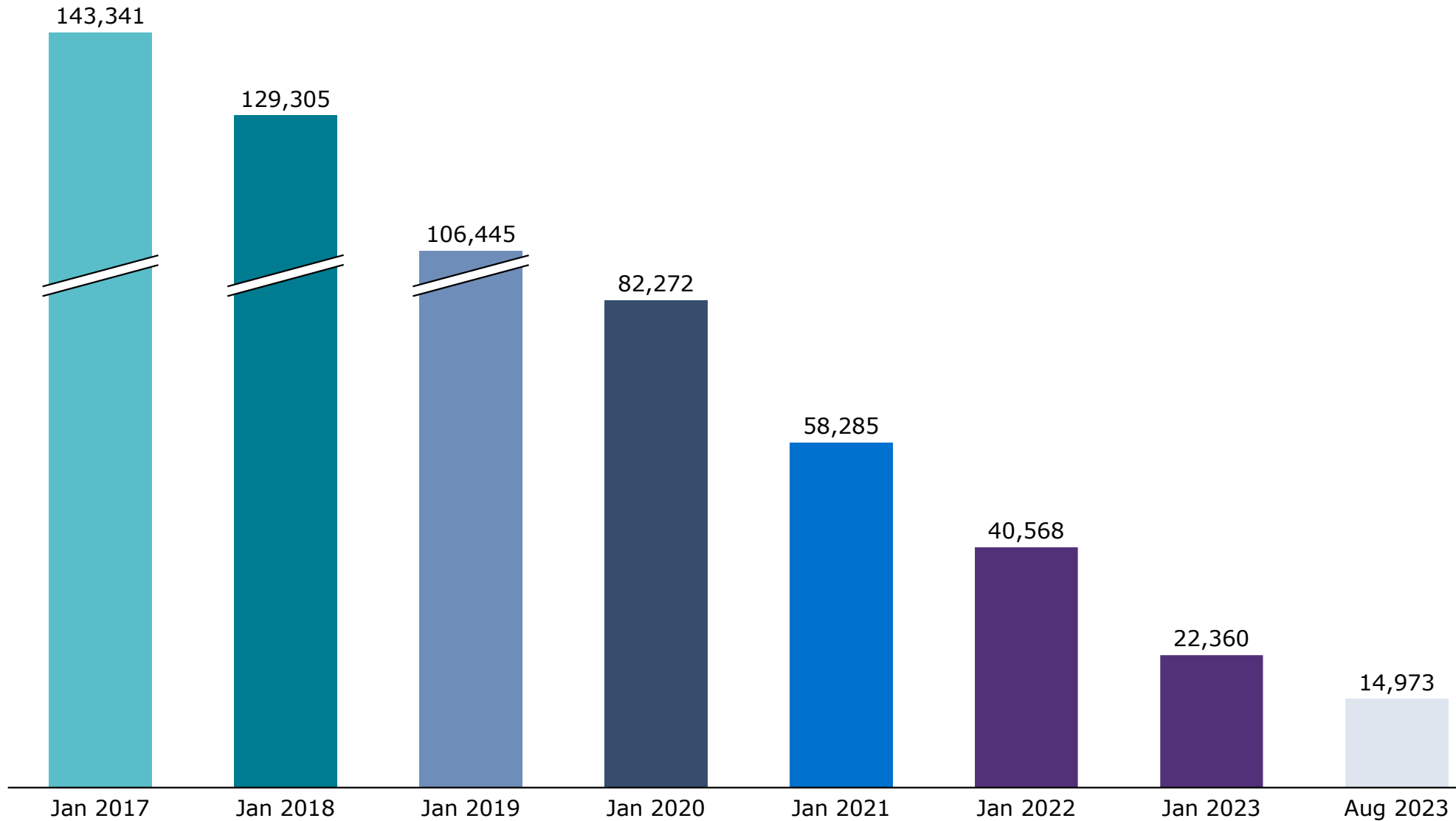
Allen Road	95	84	627
Lynch Road	234	189	610
Michigan Avenue	52	113	117
ICM	39	9	23
<b>Total</b>	<b>420</b>	<b>395</b>	<b>1,377</b>



## Meter Assembly Check Status

August 2023

## Trending Meter Assembly Check backlog



**Michigan Public Service Commission**  
**DTE Gas Company**  
**Advanced Metering Infrastructure (AMI)**  
**Annualized and Monetized Benefit Projection**  
**(\$000)**

Case No.: U-21291  
 Exhibit: A21  
 Schedule: K1  
 Witness: S. Kehoe  
 Page: 1 of 1

Line No.	(a) Description	(b) Account	(c) Program Expenses /(Savings)		
			(d) Historical 12 Months Ending 12/31/23	(e) Bridge 21 Months 01/01/23 to 09/30/24	(f) Projected Test Period 10/01/24 to 09/30/25
1	<b>Distribution Expenses</b>				
2	AMI Meter Expenses		859	1,326	767
3	Meter Expenses & Other Distribution Savings		(5,021)	(9,249)	(5,534)
4	Total Distribution - Net O&M Cost/(Savings)	878	(4,162)	(7,923)	(4,767)
5	<b>Customer Service and Marketing</b>				
6	AMI Customer Service & Marketing Expenses		1,177	1,430	818
7	Meter Reading & Other Customer Service Savings		(9,019)	(16,593)	(9,924)
8	Total Cust. Service & Mkting - Net O&M Cost/(Savings)	902 / 903	(7,842)	(15,163)	(9,106)
9	<b>Total AMI - Net O&amp;M Cost/(Savings)</b>		<b>(12,004)</b>	<b>(23,086)</b>	<b>(13,873)</b>

DTE Gas Company  
 Advanced Metering Infrastructure (AMI) - Benefit Analysis  
 (\$000)

Case No.: U-21291  
 Exhibit: A21  
 Schedule: K2  
 Witness: S. Kehoe  
 Page: 1 of 1

(a)

Line	Description	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Model	Total	
		Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Realized	Forecast	Forecast	Forecast
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
1	Distribution Expenses																				
2	AMI Meter Expenses																				
3	PMO	-	-	43	135	319	437	499	610	575	658	1,131	287	299	311	323	215	222	228	7,541	
4	IT	634	-	132	187	199	403	435	449	412	458	514	523	528	533	537	539	540	540	7,564	
5	Total	\$ 634	\$ -	\$ 175	\$ 322	\$ 517	\$ 840	\$ 934	\$ 1,058	\$ 987	\$ 1,116	\$ 1,644	\$ 810	\$ 827	\$ 844	\$ 859	\$ 754	\$ 762	\$ 769	\$ 15,105	
6	Meter Expenses & Other Distribution Savings																				
7	Hex Savings	\$ (1)	\$ (2)	\$ (4)	\$ (8)	\$ (22)	\$ (73)	\$ (158)	\$ (261)	\$ (326)	\$ (341)	\$ (377)	\$ (421)	\$ (449)	\$ (475)	\$ (502)	\$ (528)	\$ (551)	\$ (572)	(5,071)	
8	Meter Reading	\$ -	\$ -	\$ -	\$ (245)	\$ (830)	\$ (1,214)	\$ (1,872)	\$ (2,658)	\$ (3,073)	\$ (3,654)	\$ (3,940)	\$ (4,079)	\$ (4,218)	\$ (4,366)	\$ (4,519)	\$ (4,677)	\$ (4,841)	\$ (5,010)	(49,198)	
9	Total	\$ (1)	\$ (2)	\$ (4)	\$ (253)	\$ (853)	\$ (1,287)	\$ (2,030)	\$ (2,919)	\$ (3,399)	\$ (3,995)	\$ (4,318)	\$ (4,499)	\$ (4,668)	\$ (4,841)	\$ (5,021)	\$ (5,205)	\$ (5,392)	\$ (5,582)	\$ (54,269)	
10																					
11	Total Distribution - Net O&M Cost/(Savings)	\$ 633	\$ (2)	\$ 171	\$ 69	\$ (335)	\$ (448)	\$ (1,096)	\$ (1,861)	\$ (2,413)	\$ (2,878)	\$ (2,673)	\$ (3,689)	\$ (3,840)	\$ (3,997)	\$ (4,162)	\$ (4,451)	\$ (4,630)	\$ (4,813)	(30,972)	
12																					
13	Customer Service and Marketing																				
14	AMI Customer Service & Marketing Expenses																				
15	Marketing Communications	\$ -	\$ -	\$ 176	\$ 435	\$ 879	\$ 680	\$ 680	\$ 324	\$ 324	\$ 583	\$ 324	\$ 334	\$ 344	\$ 354	\$ 365	\$ -	\$ -	\$ -	5,801	
16	Maint. Fees and Telecom	\$ -	\$ -	\$ 39	\$ 82	\$ 432	\$ 353	\$ 493	\$ 616	\$ 609	\$ 689	\$ 775	\$ 789	\$ 798	\$ 806	\$ 812	\$ 816	\$ 818	\$ 818	9,746	
17	Total	\$ -	\$ -	\$ 215	\$ 517	\$ 1,311	\$ 1,034	\$ 1,174	\$ 940	\$ 933	\$ 1,272	\$ 1,099	\$ 1,123	\$ 1,142	\$ 1,160	\$ 1,177	\$ 816	\$ 818	\$ 818	15,548	
18																					
19	Meter Reading & Other Customer Service Savings																				
20	Consumer Affairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (13)	\$ (15)	\$ (14)	\$ (16)	\$ (19)	\$ (20)	\$ (21)	\$ (22)	\$ (23)	\$ (24)	\$ (25)	\$ (26)	(238)	
21	Billing	\$ -	\$ -	\$ -	\$ (6)	\$ (20)	\$ (46)	\$ (88)	\$ (139)	\$ (150)	\$ (195)	\$ (226)	\$ (238)	\$ (249)	\$ (260)	\$ (271)	\$ (282)	\$ (293)	\$ (303)	(2,767)	
22	Meter Reading	\$ (950)	\$ (983)	\$ (1,216)	\$ (1,272)	\$ (1,456)	\$ (2,039)	\$ (5,497)	\$ (3,766)	\$ (4,602)	\$ (5,513)	\$ (6,694)	\$ (7,304)	\$ (7,635)	\$ (7,580)	\$ (7,845)	\$ (8,120)	\$ (8,404)	\$ (8,698)	(89,573)	
23	Cust Care - Call Center	\$ -	\$ -	\$ -	\$ (8)	\$ (28)	\$ (66)	\$ (126)	\$ (197)	\$ (214)	\$ (278)	\$ (322)	\$ (339)	\$ (355)	\$ (371)	\$ (386)	\$ (402)	\$ (417)	\$ (431)	(3,941)	
24	Cust Care - Misc Reads	\$ (0)	\$ (1)	\$ (1)	\$ (15)	\$ (44)	\$ (77)	\$ (127)	\$ (198)	\$ (248)	\$ (298)	\$ (381)	\$ (433)	\$ (454)	\$ (474)	\$ (493)	\$ (513)	\$ (532)	\$ (551)	(4,840)	
25	Total	\$ (951)	\$ (984)	\$ (1,216)	\$ (1,301)	\$ (1,548)	\$ (2,228)	\$ (5,852)	\$ (4,315)	\$ (5,229)	\$ (6,300)	\$ (7,642)	\$ (8,335)	\$ (8,715)	\$ (8,707)	\$ (9,019)	\$ (9,340)	\$ (9,670)	\$ (10,009)	\$(101,359)	
26																					
	Total Cust. Service & Mktg - Net O&M Cost/(Savings)	\$ (951)	\$ (984)	\$ (1,001)	\$ (783)	\$ (237)	\$ (1,194)	\$ (4,678)	\$ (3,375)	\$ (4,295)	\$ (5,028)	\$ (6,543)	\$ (7,212)	\$ (7,573)	\$ (7,547)	\$ (7,842)	\$ (8,524)	\$ (8,852)	\$ (9,191)	(85,811)	
	Total AMI - Net O&M Cost/(Savings)	\$ (317)	\$ (986)	\$ (830)	\$ (714)	\$ (572)	\$ (1,642)	\$ (5,774)	\$ (5,236)	\$ (6,708)	\$ (7,906)	\$ (9,217)	\$ (10,901)	\$ (11,413)	\$ (11,544)	\$ (12,004)	\$ (12,975)	\$ (13,482)	\$ (14,004)	(126,226)	

February 28, 2022



Dear Responsibly Sourced Gas (RSG) Suppliers,

**Request for Information (RFI)**

DTE Energy continues to work toward the [commitment](#) made by both its Gas and Electric utilities to achieve Net Zero by 2050. Procuring lower emission certified natural gas is a critical component of DTE's effort to reduce its carbon footprint through the entire value chain. We invite you to participate by responding to this invitation.

Emissions reduction efforts currently underway at DTE Gas include:

- Replacing old pipe, implementing new technologies to detect leaks more quickly, reducing vented gas.
- Offering a voluntary Natural Gas Balance program to customers, increasing efficiency targets, incorporating renewable natural gas into our system supply.
- Advancing transparency and consistency in methane intensity reporting and encouraging our suppliers to do the same. DTE has adopted - and is publicly reporting under - the Natural Gas Sustainability Initiative (NGSI) [Methane Emissions Intensity Protocol](#)<sup>2</sup> created in partnership with AGA and EEI (see DTE's report [here](#)<sup>3</sup>).
- Exploring the incorporation of Responsibly Sourced Gas (RSG) into our supply portfolio.

DTE Gas Company is soliciting offers for RSG via this non-binding RFI. We are interested in purchasing up to 2 BCF during the summer of April thru October of 2022. If, you are interested in participating in this RFI please reply with the [information](#) below by 4 PM Eastern Standard Time on Wednesday March 9, 2022.

1. **RSG Supply Type Firm:** Yes or No
2. **RSG Purchase Start Date:** April 1, 2022 or \_\_\_\_\_
3. **RSG Purchase Location:** (Circle &/or enter alternate point) ANR SW Field, PEPL Field, Emerson GLGT or Viking, Vector Alliance, ANR Alliance, Nexus Kensington, Nexus TCP Interconnection, Nexus Teal M2, MichCon City Gate primary point, Other \_\_\_\_\_
4. **RSG Supply Volume:** \_\_\_\_\_ Dth/d
5. **RSG Pricing Type(s):** (Circle) Fix Price, NYMEX +/- basis, FOM Index +/-, or GDD
6. **RSG Pricing Premium:** \_\_\_\_\_ \$/MMBTU (if any)
7. **RSG Supply Certification Type:** \_\_\_\_\_ (e.g. IES Trustwell, EO100, MiQ, Platts, other)\*

**RFI response notes:**

- DTE Gas is planning to use our current or any newly executed NAESB with mutually agreeable RSG language in the Exhibit A Special Section – Confirm
- Prior to the execution of any transaction and as a condition precedent to the sale of RSG, Seller shall certify through a reputable third party, approved by DTE Gas Company, that the proposed gas has the purported environmental attributes/certification as indicated from Seller

DTE values your partnership as we work toward fulfilling our commitment to sustainable business practices and doing the right thing for the environment and our communities. Please reply via email or call Mike Wiegand (313.680.4098) with any questions.

<sup>1</sup><https://dtecleanenergy.com>

<sup>2</sup><https://www.aqa.org/about/investor-relations/natural-gas-sustainability-initiative-nqsi/>

<sup>3</sup><https://geq2a4cqqdz35lnem46az2tb-wpengine.netdna-ssl.com/wp-content/uploads/MethaneIntensityReport.pdf>



February 28, 2023

Dear Responsibly Sourced Gas (RSG) Suppliers,

**Request for Information (RFI)**

DTE Energy continues to work toward the [commitment](#)<sup>1</sup> made by both its Gas and Electric utilities to achieve Net Zero by 2050. Procuring lower emission certified natural gas is a critical component of DTE's effort to reduce its carbon footprint through the entire value chain. We invite you to participate by responding to this invitation.

Emissions reduction efforts currently underway at DTE Gas include:

- Replacing old, leak-prone pipe and implementing new technologies to detect leaks more quickly, reducing vented gas
- Offering a voluntary Natural Gas Balance program to customers, increasing efficiency targets, incorporating renewable natural gas into our system supply
- Joining [ONE Future](#)<sup>2</sup>, a coalition of 56 companies representing the natural gas value chain focused on implementing innovative performance-based approaches to managing methane emissions. The ONE Future methane intensity goal of less than 1% of total produced natural gas by 2025 has been consistently met by members for 5 consecutive years
- Advancing transparency and consistency in methane intensity reporting and encouraging our suppliers to do the same. DTE is working with industry associations to encourage the use of the Natural Gas Sustainability Initiative (NGSI) [Methane Emissions Intensity Protocol](#)<sup>3</sup> to standardize reporting of methane emissions across the natural gas value chain
- Incorporating Responsibly Sourced Gas (RSG) into our supply portfolio
- DTE's emissions data and more about our path toward Net Zero may be found [here](#)<sup>4</sup>

DTE Gas Company is soliciting offers for RSG via this non-binding RFI. We are interested in purchasing up to **1 BCF (approximately 4,600 Dth/day) during the summer of April thru October of 2023**. If you are interested in participating in this RFI please reply with the information below by 4 PM Eastern Standard Time on **Friday March 3, 2023**.

1. **RSG Supply Type Firm:** (Circle) Yes or No
2. **RSG Purchase Start Date:** April 1, 2023 or \_\_\_\_\_
3. **RSG Purchase Location:** (Circle &/or enter alternate point) ANR SW Field, PEPL Field, Emerson GLGT or Viking, Vector Alliance, ANR Alliance, Nexus Kensington, Nexus TGP Interconnection, Nexus Teal M2/Clarington,, MichCon City Gate primary point, Other \_\_\_\_\_
4. **RSG Supply Volume:** \_\_\_\_\_ Dth/d
5. **RSG Pricing Type(s):** (Circle) Fix Price, NYMEX +/- basis, FOM Index +/-, or GDD
6. **RSG Pricing Premium:** \_\_\_\_\_ \$/MMBTU (if any)

7. **RSG Certification Type:** \_\_\_\_\_ (e.g. Trustwell, EO100, MiQ, other. Please include letter grade or quality rating, if applicable)
8. **RSG Methane Intensity:** \_\_\_\_\_
9. **RSG Carbon Dioxide Intensity:** \_\_\_\_\_ (if available)

**RFI response notes:**

- *DTE Gas is planning to use our current or any newly executed NAESB with mutually agreeable RSG language in the Exhibit A Special Section – Confirm*
- *Prior to the execution of any transaction and as a condition precedent to the sale of RSG, Seller shall provide documentation of certification through a reputable third party, approved by DTE Gas Company, that the proposed gas has the purported environmental attributes (methane intensity, CO<sub>2</sub>, etc.)/certification as indicated from Seller*

DTE values your partnership as we work toward fulfilling our commitment to sustainable business practices and doing the right thing for the environment and our communities. Please reply via email or call Mike Wiegand (313.680.4098) with any questions.

<sup>1</sup><https://dtecleanenergy.com>

<sup>2</sup><https://onefuture.us>

<sup>3</sup><https://www.aga.org/research-policy/natural-gas-esg-sustainability/natural-gas-sustainability-initiative-ngsi/>

<sup>4</sup><https://dteempowermi.wpenginepowered.com/wp-content/uploads/2021SustainabilityReport-1.pdf#12>

**RSG Summary for 2022 - Actually purchased and included in 2022-23 GCR Plan**

<u>Supplier</u>	<u>Deal</u>	<u>Purchase Point</u>	<u>Purchase Period</u>	<u>MDQ</u>	<u>TOTAL Volume</u>	<u>Basis Price \$/Dth</u>	<u>Basis Adder \$/Dth</u>	RSG	<u>Commodity Costs</u>	RSG	Estimated
								<u>Premium Price \$/Dth</u>		<u>Costs</u>	<u>Costs</u>
A	03/23/22	Clarington RSG	A22-O22	3,300	706,200	\$6.4386	\$0.1400	\$0.0400	4,645,794	28,248	4,674,042
B	02/23/22	Falcon RSG	A22-O22	2,000	428,000	\$7.3905	\$0.0300	\$0.0200	3,175,961	8,560	3,184,521
<b>Total =</b>				<b>5,300</b>	<b>1,134,200</b>				<b>7,821,754</b>	<b>36,808</b>	<b>7,858,562</b>

**RSG Summary for 2023 - Actually purchased and will be included in 2023-24 GCR Reconciliation Case**

<u>Supplier</u>	<u>Deal</u>	<u>Purchase Point</u>	<u>Purchase Period</u>	<u>MDQ</u>	<u>TOTAL Volume</u>	<u>Fixed Price Price \$/Dth</u>	RSG	<u>Commodity Costs</u>	RSG	Estimated
							<u>Premium Price \$/Dth</u>		<u>Costs</u>	<u>Costs</u>
A	03/10/23	PEPL Field	A23-O23	9,300	1,990,200	\$2.2050	\$0.0150	4,388,391	29,853	4,418,244
<b>Total =</b>				<b>9,300</b>	<b>1,990,200</b>			<b>4,388,391</b>	<b>29,853</b>	<b>4,418,244</b>

**Projected Test Period - RSG Premium (Rate Case)**

<u>Supplier</u>	<u>Deal</u>	<u>Purchase Point</u>	<u>Purchase Period</u>	<u>MDQ</u>	<u>TOTAL Volume</u>	<u>Basis Price \$/Dth</u>	<u>Basis Adder \$/Dth</u>	RSG	<u>Commodity Costs</u>	RSG	Estimated
								<u>Premium Price \$/Dth</u>		<u>Costs</u>	<u>Costs</u>
C	TBD	TBD	O23-S24		4,000,000	TBD	TBD	\$0.0450	TBD	180,000	TBD
<b>Total =</b>				<b>-</b>	<b>4,000,000</b>					<b>180,000</b>	<b>-</b>

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Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Plant In Service  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynsinski  
Page: 1 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Plant In Service</b>												
1	Production Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage Plant	661,786	134,949	376,840	12,833	5,383	20,384	19,550	26,311	53,069	12,467	4
3	Transmission Plant	1,111,067	184,281	519,767	17,186	7,441	50,388	49,412	67,958	182,653	31,980	3
<b>Distribution Plant</b>												
5	Distribution Plant - Other	326,509	57,562	162,385	5,368	2,326	15,682	12,157	19,105	41,999	9,925	3T
6	Mains - Hi Pressure	395,641	69,750	196,767	6,504	2,818	19,002	14,731	23,150	50,892	12,027	3T
7	Mains - Low Pressure	2,517,614	535,530	1,546,174	50,861	21,840	128,155	78,645	53,052	23,585	79,770	3H
<b>Customer Related Plant</b>												
9	Services	2,038,785	458,285	1,505,913	36,732	6,036	22,854	5,558	1,976	692	739	5
10	Meters	427,601	97,642	320,848	7,826	1,286	-	-	-	-	-	6
11	Meter/Reg Installation	549,450	125,465	412,276	10,056	1,652	-	-	-	-	-	6
12	Large Volume Installation	1,841	-	-	-	-	1,322	322	114	40	43	7
13												
14	Subtotal - CRP	\$ 3,017,678	\$ 681,392	\$ 2,239,036	\$ 54,614	\$ 8,974	\$ 24,177	\$ 5,880	\$ 2,091	\$ 732	\$ 782	
15												
16	Subtotal - Dist. Plant	\$ 6,257,441	\$ 1,344,233	\$ 4,144,362	\$ 117,347	\$ 35,959	\$ 187,016	\$ 111,414	\$ 97,398	\$ 117,208	\$ 102,504	
17												
18	Total - Plant in Service	\$ 8,030,294	\$ 1,663,463	\$ 5,040,970	\$ 147,366	\$ 48,783	\$ 257,788	\$ 180,377	\$ 191,667	\$ 352,930	\$ 146,951	

Source: Col. (b): WP TJK-7 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Base O&M  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynski  
Page: 2 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Base O&amp;M</b>												
1	O&M Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage	15,207	3,101	8,659	295	124	468	449	605	1,219	286	4
3	Transmission	89,727	14,882	41,975	1,388	601	4,069	3,990	5,488	14,751	2,583	3
4	Distribution	141,924	30,488	93,998	2,662	816	4,242	2,527	2,209	2,658	2,325	12
5	Lost & Company Use Gas	43,209	11,132	30,548	1,094	435	-	-	-	-	-	1
6	Customer Accounts - Supv.	2,030	456	1,499	37	6	23	6	2	1	1	5
7	Meter Reading Expenses	4,953	1,113	3,659	89	15	56	14	5	2	2	5
8	Customer Records	41,648	9,362	30,763	750	123	467	114	40	14	15	5
9	Merchant Fees	6,260	2,165	3,995	47	53	-	-	-	-	-	Direct
10	Customer Accts. - Other	58,383	3,986	54,093	270	9	19	4	1	0	0	8
11	Customer Assistance - Supv.	0	0	0	0	0	0	0	0	0	0	8
12	Customer Services	2,999	205	2,778	14	0	1	0	0	0	0	8
13	Customer Communications	(3)	-	(2)	(0)	-	-	-	-	-	-	10
14	Misc Customer Exp	3,076	210	2,850	14	0	1	0	0	0	0	8
15												
16	Total; Base O&M	\$ 409,414	\$ 77,101	\$ 274,816	\$ 6,659	\$ 2,182	\$ 9,345	\$ 7,103	\$ 8,350	\$ 18,645	\$ 5,212	

Source: Col. (b): WP TJK-3, Col. f; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Rate Base  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynski  
Page: 3 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Rate Base</b>												
1	Production Plant	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage Plant	661,786	134,949	376,840	12,833	5,383	20,384	19,550	26,311	53,069	12,467	4
3	Transmission Plant	1,111,067	184,281	519,767	17,186	7,441	50,388	49,412	67,958	182,653	31,980	3
4	Distribution Plant - Other	326,509	57,562	162,385	5,368	2,326	15,682	12,157	19,105	41,999	9,925	3T
5	Mains - Hi Pressure	395,641	69,750	196,767	6,504	2,818	19,002	14,731	23,150	50,892	12,027	3T
6	Mains - Low Pressure	2,517,614	535,530	1,546,174	50,861	21,840	128,155	78,645	53,052	23,585	79,770	3H
7	Services	2,038,785	458,285	1,505,913	36,732	6,036	22,854	5,558	1,976	692	739	5
8	Meters	427,601	97,642	320,848	7,826	1,286	-	-	-	-	-	6
9	Meter/Reg Installation	549,450	125,465	412,276	10,056	1,652	-	-	-	-	-	6
10	Large Volume Installation	1,841	-	-	-	-	1,322	322	114	40	43	7
11	Intangible Plant	(5,020)	(1,040)	(3,152)	(92)	(30)	(161)	(113)	(120)	(221)	(92)	13
12	General Plant	448,928	92,995	281,812	8,238	2,727	14,411	10,084	10,715	19,730	8,215	13
13	Intang. Plt. - MARS	6,111	1,014	2,859	95	41	277	272	374	1,005	176	3
14	Intang. Plt. - Other	44,628	3,047	41,350	206	7	14	3	1	0	0	8
15	Intang. Plt. - Transmission	3,376	560	1,579	52	23	153	150	206	555	97	3
16	Intang. Plt. - HPP	960	206	636	18	6	29	17	15	18	16	12
17	Plant Held FFU- Prod	-	-	-	-	-	-	-	-	-	-	13
18	Plant Held FFU- Transm	-	-	-	-	-	-	-	-	-	-	13
19	Plant Held FFU- Dist	-	-	-	-	-	-	-	-	-	-	13
20	CWIP Storage	10,975	2,238	6,250	213	89	338	324	436	880	207	4
21	CWIP Transmission	80,643	13,375	37,725	1,247	540	3,657	3,586	4,932	13,257	2,321	3
22	CWIP Distribution	77,587	16,667	51,387	1,455	446	2,319	1,381	1,208	1,453	1,271	12
23	CWIP Distribution - Main	82,683	17,762	54,762	1,551	475	2,471	1,472	1,287	1,549	1,354	12
24	CWIP General	30,261	6,268	18,996	555	184	971	680	722	1,330	554	13
25	CWIP Intangible	16,393	3,396	10,291	301	100	526	368	391	720	300	13
26	Accum. Depr. - Production	-	-	-	-	-	-	-	-	-	-	1
27	Accum. Depr. - Storage	(237,695)	(48,470)	(135,351)	(4,609)	(1,933)	(7,321)	(7,022)	(9,450)	(19,061)	(4,478)	4
28	Accum. Depr. - Transmission	(367,250)	(60,912)	(171,803)	(5,681)	(2,460)	(16,655)	(16,333)	(22,463)	(60,374)	(10,571)	3
29	Accum. Depr. - Distribution	(947,805)	(203,609)	(627,740)	(17,774)	(5,447)	(28,327)	(16,876)	(14,753)	(17,753)	(15,526)	12
30	Accum. Depr. - Dist. Mains	(1,010,052)	(216,981)	(668,967)	(18,942)	(5,804)	(30,187)	(17,984)	(15,722)	(18,919)	(16,546)	12
31	Accum. Depr. - Intangible	(37,282)	(7,723)	(23,403)	(684)	(226)	(1,197)	(837)	(890)	(1,639)	(682)	13
32	Accum. Depr. - General	(156,653)	(32,450)	(98,338)	(2,875)	(952)	(5,029)	(3,519)	(3,739)	(6,885)	(2,867)	13
33	Accum. Depr. - Future Use	-	-	-	-	-	-	-	-	-	-	13
34	WC-Taxes	846,267	175,303	531,239	15,530	5,141	27,167	19,009	20,199	37,193	15,486	13
35	WC-Rev Rec&Pay	12,797	2,906	8,485	274	92	306	204	195	235	101	15
36	WC- Sales Storage	13,816	3,560	9,768	350	139	-	-	-	-	-	1
37												
38	Total Rate Base	\$ 6,943,963	\$ 1,431,575	\$ 4,369,354	\$ 126,795	\$ 41,940	\$ 221,551	\$ 155,244	\$ 165,213	\$ 306,004	\$ 126,288	

Source: Col. (b): WP TJK-7 and Company Books and Records (Plant) TJK-4 (Working Capital); Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Operating Expense Allocation  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynski  
Page: 4 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
<b>Operating Expenses</b>												
1	O&M Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1
2	Storage	15,207	3,101	8,659	295	124	468	449	605	1,219	286	4
3	Transmission	89,727	14,882	41,975	1,388	601	4,069	3,990	5,488	14,751	2,583	3
4	Distribution	141,924	30,488	93,998	2,662	816	4,242	2,527	2,209	2,658	2,325	12
5	Lost & Company Use Gas	43,209	11,132	30,548	1,094	435	-	-	-	-	-	1
6	Customer Accounts - Supv.	2,030	456	1,499	37	6	23	6	2	1	1	5
7	Meter Reading Expenses	4,953	1,113	3,659	89	15	56	14	5	2	2	5
8	Customer Records	41,648	9,362	30,763	750	123	467	114	40	14	15	5
9	Merchant Fees	6,260	2,165	3,995	47	53	-	-	-	-	-	Direct
10	Customer Accts. - Other	58,383	3,986	54,093	270	9	19	4	1	0	0	8
11	Customer Assistance - Supv.	0	0	0	0	0	0	0	0	0	0	8
12	Customer Services	2,999	205	2,778	14	0	1	0	0	0	0	8
13	Customer Communications	(3)	-	(2)	(0)	-	-	-	-	-	-	10
14	Misc Customer Exp	3,076	210	2,850	14	0	1	0	0	0	0	8
15	A&G Expense	172,046	30,993	114,759	2,615	821	4,390	3,337	3,923	8,760	2,448	17
16	Depr Production	-	-	-	-	-	-	-	-	-	-	1
17	Storage	15,350	3,130	8,741	298	125	473	453	610	1,231	289	4
18	Transmission	20,873	3,462	9,764	323	140	947	928	1,277	3,431	601	3
19	Distribution	89,873	19,307	59,524	1,685	516	2,686	1,600	1,399	1,683	1,472	12
20	Distribution - Mains	95,776	20,575	63,433	1,796	550	2,862	1,705	1,491	1,794	1,569	12
21	General	18,513	3,835	11,622	340	112	594	416	442	814	339	13
22	Amort. of Intangible Plt.	7,214	1,494	4,528	132	44	232	162	172	317	132	13
23	Amort. of Reg. Debits	(4,380)	(789)	(2,922)	(67)	(21)	(112)	(85)	(100)	(223)	(62)	17
24	Property Taxes	114,068	23,629	71,606	2,093	693	3,662	2,562	2,723	5,013	2,087	13
25	Other Taxes	3,263	676	2,048	60	20	105	73	78	143	60	13
26	Payroll Taxes	13,608	2,451	9,077	207	65	347	264	310	693	194	17
27	State/City Income Taxes	8,889	1,833	5,593	162	54	284	199	211	392	162	18
28												
29	Operating Expenses	\$ 964,507	\$ 187,696	\$ 632,590	\$ 16,304	\$ 5,302	\$ 25,815	\$ 18,719	\$ 20,886	\$ 42,694	\$ 14,502	

Source: Col. (b): WP TJK-3 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Revenue Requirement By Rate Class  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krysinski  
Page: 5 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXL	(k) Exelon	(l) Allocation Schedule
<b>Revenue Requirement</b>												
1	Operating Expenses	\$ 964,507	\$ 187,696	\$ 632,590	\$ 16,304	\$ 5,302	\$ 25,815	\$ 18,719	\$ 20,886	\$ 42,694	\$ 14,502	
2	Amort. Of Debt Disc.	1,756	362	1,105	32	11	56	39	42	77	32	18
3	AFUDC	(4,680)	(936)	(2,812)	(83)	(29)	(161)	(122)	(141)	(301)	(94)	14
4	Income Required	489,217	100,858	307,831	8,933	2,955	15,609	10,937	11,640	21,559	8,897	18
5	Federal Income Tax	20,664	5,634	9,802	608	76	2,569	1,527	1,093	(804)	159	22
6	TCJA Amortization	(11,716)	(2,415)	(7,372)	(214)	(71)	(374)	(262)	(279)	(516)	(213)	18
7	Subtotal - COS	\$ 1,459,748	\$ 291,198	\$ 941,143	\$ 25,579	\$ 8,244	\$ 43,514	\$ 30,838	\$ 33,240	\$ 62,709	\$ 23,283	
8	Uncollectibles	35,149	7,672	23,369	704	249	709	503	542	1,022	379	20
9	Total Cost of Service	\$ 1,494,897	\$ 298,871	\$ 964,512	\$ 26,284	\$ 8,492	\$ 44,223	\$ 31,341	\$ 33,782	\$ 63,731	\$ 23,662	
10												
11	Storage Revenue	\$ (38,469)	\$ (7,844)	\$ (21,905)	\$ (746)	\$ (313)	\$ (1,185)	\$ (1,136)	\$ (1,529)	\$ (3,085)	\$ (725)	4
12	Off System Transp. Revenue	(73,175)	(12,137)	(34,232)	(1,132)	(490)	(3,319)	(3,254)	(4,476)	(12,030)	(2,106)	3
13	Subtotal - Midstream	\$ (111,644)	\$ (19,981)	\$ (56,137)	\$ (1,878)	\$ (803)	\$ (4,503)	\$ (4,391)	\$ (6,005)	\$ (15,114)	\$ (2,831)	
14	Appliance Service Programs	\$ (99,257)	\$ (21,323)	\$ (65,739)	\$ (1,861)	\$ (570)	\$ (2,966)	\$ (1,767)	\$ (1,545)	\$ (1,859)	\$ (1,626)	12
15	Gas-in-Kind Revenue	(28,646)	(7,380)	(20,252)	(725)	(288)	-	-	-	-	-	1
16	Other Revenue	(11,721)	(2,338)	(7,557)	(205)	(66)	(349)	(248)	(267)	(503)	(187)	19
17	Blue Lake Pipeline	(1,291)	(257)	(832)	(23)	(7)	(38)	(27)	(29)	(55)	(21)	19
18	Vector Pipeline	(2,870)	(573)	(1,850)	(50)	(16)	(86)	(61)	(65)	(123)	(46)	19
19	Subtotal - Other Revenue	\$ (143,784)	\$ (31,871)	\$ (96,230)	\$ (2,865)	\$ (948)	\$ (3,440)	\$ (2,103)	\$ (1,907)	\$ (2,541)	\$ (1,879)	
20												
21	Low Income Assist. Pilot	\$ 30,624	\$ 6,685	\$ 20,360	\$ 614	\$ 217	\$ 618	\$ 438	\$ 472	\$ 890	\$ 331	20
22	Low Income Assist. Credit	(30,624)		(30,624)								
23	Cust. Discount											
24	Re Alloc Cust. Discount											
25	Standby Chgs. / Min Vol. Rev.	(1,914)	(11)	-	-	-	(76)	(1,579)	(247)	-	-	Direct
26	Subtotal - Other Dist. Rev.	\$ (1,914)	\$ 6,673	\$ (10,264)	\$ 614	\$ 217	\$ 542	\$ (1,141)	\$ 225	\$ 890	\$ 331	
27												
28	Revenue Requirement	\$ 1,237,555	\$ 253,692	\$ 801,881	\$ 22,155	\$ 6,958	\$ 36,821	\$ 23,706	\$ 26,095	\$ 46,965	\$ 19,283	

Source: Col. (b): WP TJK-3 and Company Books and Records; Cols. (c) to (l) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Revenue Requirement \$ 1,237,555 \$ 253,692 \$ 801,881 \$ 22,155 \$ 6,958 \$ 36,821 \$ 23,706 \$ 26,095 \$ 46,965 \$ 19,283

Michigan Public Service Commission  
DTE Gas Company  
Service Charge - Staff Method  
(\$000)

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynski  
Page: 6 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S
1	<b>Plant</b>					
2	Services	\$ 2,038,785	\$ 458,285	\$ 1,505,913	\$ 36,732	\$ 6,036
3	Meters	427,601	97,642	320,848	7,826	1,286
4	Meter/Reg	549,450	125,465	412,276	10,056	1,652
5	Industrial Meters	1,841	-	-	-	-
6	Total Plant	\$ 3,017,678	\$ 681,392	\$ 2,239,036	\$ 54,614	\$ 8,974
7	Cost Rate	7.53%	7.53%	7.53%	7.53%	7.53%
8	Annual Plant Cost	\$ 227,126	\$ 51,285	\$ 168,521	\$ 4,111	\$ 675
9	<b>Expense</b>					
10	Customer Accounts - Supv.	\$ 2,030	\$ 456	\$ 1,499	\$ 37	\$ 6
11	Meter Reading Expenses	4,953	1,113	3,659	89	15
12	Customer Records	41,648	9,362	30,763	750	123
13	Merchant Fees	6,260	2,165	3,995	47	53
14	Customer Accts. - Other	58,383	3,986	54,093	270	9
15	Total Expenses	\$ 113,274	\$ 17,082	\$ 94,010	\$ 1,193	\$ 206
16	<b>Cost Per Customer</b>					
17	Total Cost	\$ 340,400	\$ 68,367	\$ 262,531	\$ 5,303	\$ 882
18	Customer Count	1,340,887	91,545	1,242,379	6,201	216
19	Annual Cost	253.86	746.81	211.31	855.24	4,086.04
20	Monthly Cost	\$ 21.2	\$ 62.2	\$ 17.6	\$ 71.3	\$ 340.5

Source: Col. (b): WP TJK-3 and Company Books and Records; Colc. (c) = Col. (b) \* Alloc. Factor Percentage on Page 7.

Michigan Public Service Commission  
DTE Gas Company  
Cost of Service Study for the Projected Test Year Ending 09/30/2025  
Allocation Factors

Case No: U-21291 Alternate COSS  
Exhibit: A-24  
Schedule: N1  
Witness: T. J. Krynsinski  
Page: 7 of 7

Line No.	(a) Description	(b) Total Company	(c) Rate GS-1/GS-2	(d) Rate A	(e) Rate 2A	(f) Rate S	(g) Rate ST	(h) Rate LT	(i) Rate XLT	(j) Rate XXLT	(k) Exelon	(l) Allocation Schedule
1	Commodity	100.0000%	25.764%	70.698%	2.532%	1.006%	0.000%	0.000%	0.000%	0.000%	0.000%	1
2	Throughput	100.0000%	12.734%	34.943%	1.251%	0.497%	5.301%	5.981%	9.250%	26.302%	3.740%	2
3	Average & Peak	100.0000%	16.586%	46.781%	1.547%	0.670%	4.535%	4.447%	6.116%	16.439%	2.878%	3
3T	A&P no Trans. Volume	100.0000%	17.630%	49.734%	1.644%	0.712%	4.803%	3.723%	5.851%	12.863%	3.040%	3T
3H	A&P no Trans & Hi-Pressure	100.0000%	21.271%	61.414%	2.020%	0.868%	5.090%	3.124%	2.107%	0.937%	3.168%	3H
4	Storage	100.0000%	20.392%	56.943%	1.939%	0.813%	3.080%	2.954%	3.976%	8.019%	1.884%	4
5	Weighted Customers - All	100.0000%	22.478%	73.863%	1.802%	0.296%	1.121%	0.273%	0.097%	0.034%	0.036%	5
6	Weighted Customers - R & C	100.0000%	22.835%	75.034%	1.830%	0.301%	0.000%	0.000%	0.000%	0.000%	0.000%	6
7	Weighted Customers - LV	100.0000%	0.000%	0.000%	0.000%	0.000%	71.824%	17.469%	6.211%	2.174%	2.323%	7
8	Customer - All	100.0000%	6.827%	92.654%	0.462%	0.016%	0.032%	0.006%	0.001%	0.001%	0.000%	8
9	Customer - R & C	100.0000%	6.830%	92.691%	0.463%	0.016%	0.000%	0.000%	0.000%	0.000%	0.000%	9
10	Customer - Res.	100.0000%	0.000%	99.503%	0.497%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	10
11	Customer Related Plant	100.0000%	22.580%	74.197%	1.810%	0.297%	0.801%	0.195%	0.069%	0.024%	0.026%	11
12	Distribution Plant	100.0000%	21.482%	66.231%	1.875%	0.575%	2.989%	1.781%	1.557%	1.873%	1.638%	12
12A	Dist Plant no XXLT											12A
13	Plant in Service	100.0000%	20.715%	62.774%	1.835%	0.607%	3.210%	2.246%	2.387%	4.395%	1.830%	13
14	CWIP	100.0000%	20.000%	60.095%	1.783%	0.614%	3.444%	2.617%	3.007%	6.428%	2.012%	14
15	Revenue	100.0000%	22.705%	66.300%	2.144%	0.720%	2.392%	1.595%	1.523%	1.834%	0.787%	15
16	Revenue Less Cost of Gas	100.0000%	20.515%	63.153%	1.866%	0.515%	4.104%	2.737%	2.614%	3.147%	1.350%	16
17	O&M Expense Less Gas	100.0000%	18.014%	66.703%	1.520%	0.477%	2.552%	1.940%	2.280%	5.091%	1.423%	17
18	Rate Base	100.0000%	20.616%	62.923%	1.826%	0.604%	3.191%	2.236%	2.379%	4.407%	1.819%	18
19	COSS Allocation	100.0000%	19.949%	64.473%	1.752%	0.565%	2.981%	2.113%	2.277%	4.296%	1.595%	19
20	COSS + COG Allocation	100.0000%	21.828%	66.485%	2.004%	0.707%	2.018%	1.430%	1.541%	2.908%	1.080%	20
21	Uncollectibles - Net Write-offs	0.0000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	21
22	Pre-Tax NOI	100.0000%	27.265%	47.438%	2.942%	0.369%	12.431%	7.391%	5.288%	-3.891%	0.767%	22

Source: Exh. A-16, Sch. F1.2

Michigan Public Service Commission  
DTE Electric Company  
Assistance Disconnect Rates

CaseNo: U-21291  
Exhibit A-25  
Schedule O1  
Witness: J.E. Sparks  
Page 1 of 1

\*Note: 2022 Data is refreshed as of 10/31/2023 and hence shut offs are counted only until that point

LSP Program Year	2018			2019			2020			2021			2022		
MEAP combinations and Shut off rate within 12 mos (Non-LSP)	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only
a. MEAP	32%	29%	6%	19%	18%	6%	30%	27%	15%	23%	23%	9%	25%	26%	2%
b. MEAP and LIA	31%	21%	9%	18%	18%	3%	23%	22%	15%	18%	14%	9%	20%	18%	3%
c. MEAP and RIA	33%	27%	6%	22%	21%	7%	32%	30%	19%	24%	24%	10%	26%	27%	2%
d. MEAP and HHC	35%	36%	5%	21%	27%	6%	29%	13%	11%	22%	20%	5%	25%	21%	1%
e. MEAP + HHC + LIA	32%		0%	21%		8%	22%		0%	18%		14%	18%		0%
f. MEAP + HHC + RIA	35%	100%	5%	21%	27%	6%	30%	14%	11%	23%	20%	5%	26%	23%	1%
g. MEAP + LIA + RIA	31%		0%	19%	19%	5%	26%	18%	12%	22%	10%	28%	22%	17%	0%
h. MEAP + LIA + RIA + HHC	33%		0%	21%		0%	25%			22%		40%	22%		0%

LSP Program Year	2018			2019			2020			2021			2022		
Shut-off rate	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only	Combo	Elec only	Gas only
a. LSP & shutoff															
0-75	10%	11%	6%	11%	10%	5%	9%	10%	6%	12%	10%	7%	13%	11%	6%
76-110	8%	9%	4%	9%	6%	5%	7%	7%	9%	10%	8%	3%	10%	8%	2%
111-150	8%	7%	3%	9%	7%	2%	8%	9%	11%	10%	8%	8%	10%	10%	5%
b. LSP and LIA & shutoff															
0-75	10%	11%	5%	11%	10%	4%	9%	10%	6%	11%	9%	7%	13%	11%	6%
76-110	8%	9%	0%	9%	7%	5%	7%	7%	9%	10%	8%	2%	10%	8%	2%
111-150	8%	7%	2%	9%	7%	3%	8%	9%	12%	9%	7%	7%	10%	9%	4%
c. LSP and RIA & shutoff															
0-75	14%	0%	6%	12%	18%	4%	20%	21%	8%	22%	22%	14%	23%	21%	8%
76-110	13%	0%	6%	9%	13%	6%	17%	14%	14%	20%	16%	7%	17%	15%	4%
111-150	14%	0%	5%	10%	17%	2%	19%	17%	15%	20%	19%	11%	17%	20%	7%
d. LSP and HHC & shutoff															
0-75	10%	0%	4%	11%	0%	2%	8%	0%	4%	10%	0%	3%	12%	0%	3%
76-110	8%	0%	3%	10%	0%	0%	5%	0%	16%	7%	0%	0%	8%	25%	0%
111-150	7%		5%	9%		0%	6%	0%	15%	8%		6%	11%	0%	3%
e. LSP + HHC + LIA & shutoff															
0-75	10%	0%	9%	11%		1%	7%		4%	9%	0%	1%	11%		3%
76-110	8%		0%	10%		0%	5%		17%	7%	0%	0%	7%		0%
111-150	8%		11%	8%		0%	5%		17%	8%		6%	11%	0%	3%
f. LSP + HHC + RIA & shutoff															
0-75	11%		4%	12%	0%	3%	16%	0%	5%	19%	0%	7%	20%	0%	5%
76-110	9%		3%	10%	0%	0%	12%	0%	16%	15%	0%	0%	14%	25%	0%
111-150	8%		4%	10%		0%	13%	0%	22%	14%		13%	16%	0%	4%
g. LSP + LIA + RIA & shutoff															
0-75	14%	0%	7%	12%	19%	3%	20%	22%	8%	22%	23%	12%	22%	23%	8%
76-110	13%	0%	0%	9%	13%	6%	17%	12%	14%	20%	16%	7%	17%	16%	4%
111-150	14%	0%	0%	9%	17%	2%	18%	15%	16%	19%	20%	10%	16%	21%	6%
h. LSP + LIA + RIA + HHC & shutoff															
0-75	11%		13%	12%		2%	15%		5%	18%		2%	19%		4%
76-110	9%		0%	10%		0%	12%		17%	15%		0%	13%		0%
111-150	8%		0%	8%		0%	11%		25%	15%		17%	16%		4%

<u>Line</u> <u>No.</u>	(a) Description	(b) 2021	(c) 2022	(d) 2023	(e) Total
	Gas DR Expenses				
1	Labor	\$ 55,724	\$ 105,023	\$ 143,858	\$ 304,606
2	Contractors/Outside Service	\$ 680,099	\$ 815,442	\$ 671,165	\$ 2,166,706
3	Other Non-Labor	\$ 6,953	10,924	11,470	\$ 29,347
4	<b>Total Gas DR Expenses</b>	<b>\$ 742,775</b>	<b>\$ 931,389</b>	<b>\$ 826,493</b>	<b>\$ 2,500,658</b>

Line No.	Process Type <sup>1</sup>	Cost Descriptions	2024	Rate Case Test Year	2025	2026	2027	Average 25-27
			O&M	O&M	O&M	O&M	O&M	O&M
1	1	Leak Repair (repairing all existing grade 3 leaks)		\$1,201,151	\$2,070,950	\$2,070,950	\$2,070,950	\$2,070,950
2	1	Leak Repair (repairing all new grade 3 leaks)		\$1,608,586	\$2,773,424	\$2,773,424	\$2,773,424	\$2,773,424
3	1	Leak Repair (repair all existing grade 3 meter leaks)		\$135,333	\$233,333	\$233,333	\$233,333	\$233,333
4	1	Accelerated Leak Investigations (grade 2 and grade 3)		\$484,888	\$836,013	\$836,013	\$836,013	\$836,013
5	1	Weather Event/Land Movement Survey		\$116,000	\$200,000	\$200,000	\$200,000	\$200,000
6	1	Post Repair Inspections to confirm 0 reads		\$3,635,223	\$6,267,625	\$6,267,625	\$6,267,625	\$6,267,625
7	1	Increased admin headcount to cover additional leak survey		\$240,120	\$414,000	\$289,800	\$289,800	\$331,200
8	1	Transmission Grade 3 Leak Repairs						\$0
9	2	Accelerated Leak Survey (outside business districts)		\$117,776	\$203,062	\$203,062	\$203,062	\$203,062
10	2	Additional Transmission Line Patrols (12x/year)		\$0	\$0	\$0	\$0	\$0
11	2	Additional Transmission Leak Survey		\$150,936	\$260,234	\$260,234	\$260,234	\$260,234
12	3	Advanced Methane Detection Devices (Picarro)						\$0
13	3	Advanced Leak Detection Program Development		\$232,000	\$400,000	\$400,000	\$400,000	\$400,000
14	3	Updated Handheld Leak Detection Equipment (5 ppm sensitivity)						\$0
15	4	Minimizing Emissions on Transmission Line Blowdowns						\$0
16	5	Pressure Relief Device Study		\$2,030,000	\$3,500,000			\$1,166,667
17	5	Pressure Relief Device Updates/Maintenance						\$0
18	6	Training/OQ Requirements		\$323,617	\$557,960			\$185,987
		<b>Total</b>	<b>\$0</b>	<b>\$10,275,629</b>	<b>\$17,716,601</b>	<b>\$13,534,441</b>	<b>\$13,534,441</b>	<b>\$14,928,494</b>

1/ Process type coordinates to Table 23 in S. Kehoe's direct testimony