

Michigan Public Service Commission  
DTE Electric Company  
Projected Capital Expenditures  
Steam, Hydraulic and  
Other Power Generation  
(\$000)

Case No.: U-20162  
Exhibit: A-12  
Schedule: B5.1  
Witness: M. T. Paul  
Page: 1 of 9

		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Capital Expenditures						
Line No.	Description	Historical	Projected Bridge Period			Projected Test Year	Reference	
		12 mos. ended 12/31/2017	12 mos. ending 12/31/2018	4 mos. ending 4/30/2019	16 mos. ending 4/30/2019 <i>col. (c)+(d)</i>	12 mos. ending 4/30/2020		
1	Steam Power Generation							
2	Routine	216,167	152,894	50,445	203,339	148,436	Exh A-12, B5.1 page 4	
3	Non-Routine	31,994	35,318	28,627	63,945	75,572	Exh A-12, B5.1 page 2	
4	Total Steam Power Generation	248,162	188,212	79,072	267,284	224,008		
5	Hydraulic Power Generation							
6	Routine	2,529	3,242	2,257	5,499	5,397	Exh A-12, B5.1 page 4	
7	Non-Routine	58,591	43,980	13,029	57,009	35,579	Exh A-12, B5.1 page 2	
8	Total Hydraulic Power Generation	61,120	47,222	15,286	62,508	40,976		
9	Other Power Generation							
10	Routine	26,456	28,123	4,275	32,398	20,008	Exh A-12, B5.1 page 4	
11	Non-Routine	32,497	130,237	273,612	403,849	275,564	Exh A-12, B5.1 page 2	
12	Total Other Power Generation	58,953	158,359	277,887	436,246	295,572		
13	Grand Total	368,234	393,793	372,245	766,038	560,556		

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DTE Electric Company  
Projected Capital Expenditures  
Steam, Hydraulic, and  
Other Power Generation -- Non-Routine  
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Line No.	Description	(a)	(b)	(c)	(d)	(e)	(f)
		Historical	Capital Expenditures			Projected Test Year	
		12 mos. ended	Projected Bridge Period			12 mos. ending	
		12/31/2017	12 mos. ending	4 mos. ending	16 mos. ending	4/30/2019	
			12/31/2018	4/30/2019	4/30/2019		
						col. (c)+(d)	
1	<b>Steam Power Generation - Non-Routine Additions:</b>						
2	Monroe Dry Fly Ash Basin	3,301	124	-	124		-
3	Monroe Fly Ash Basin Vertical Extension	4,232	115	-	115		-
4	Monroe Coal Combustible Residuals Transfer Pad	3,377	428	-	428		-
5	Monroe ELG Fly Ash Dry Conversion	2,419	11,250	8,927	20,177		21,437
6	Monroe Dry Fly Ash Processing	-	1,100	8,333	9,433		24,667
7	Monroe Site Security	7,539	3,644	1,333	4,978		2,667
8	DSI/ACI Control Projects	1,129	285	-	285		-
9	316b	1,225	1,000	118	1,118		160
10	St Clair Fire Restoration	24,786	-	-	-		-
11	St Clair Fire Insurance Recovery	(23,850)	(14,850)	-	(14,850)		-
12	Trenton Channel Aux Boiler & Main Steam Reducing Station	817	(18)	-	(18)		-
13	Trenton Channel Ash Handling & Sibley Quarry Landfill	788	1,011	-	1,011		-
14	Total Steam Power Generation - Non-Routine	<u>25,762</u>	<u>4,088</u>	<u>18,711</u>	<u>22,799</u>		<u>48,930</u>
15	<b>Steam Power Generation - Non-Routine Removals:</b>						
16	River Rouge Bottom Ash Remediation	282	2,728	-	2,728		-
17	St. Clair Scrubber Basin Remediation	398	3,841	-	3,841		-
18	Monroe Inactive Impoundment Remediation	841	2,220	7,595	9,815		5,405
19	Harbor Beach Decommissioning	2,111	9,480	-	9,480		-
20	Conners Creek Decommissioning	601	11,050	1,973	13,023		18,332
21	River Rouge Decommissioning	998	1,000	191	1,191		1,942
22	Trenton Channel Decommissioning	1,001	910	157	1,067		963
23	Steam Power Generation - Non-Routine Removals - TOTALS	<u>6,232</u>	<u>31,229</u>	<u>9,916</u>	<u>41,146</u>		<u>26,642</u>
24	Steam Power Generation - Non-Routine - TOTALS	<u>31,994</u>	<u>35,318</u>	<u>28,627</u>	<u>63,945</u>		<u>75,572</u>
25	<b>Hydraulic Power Generation - Non-Routine:</b>						
26	Ludington Upgrades	50,831	36,980	12,959	49,939		27,189
27	Ludington Transformers	7,759	7,000	70	7,070		8,390
28	Hydraulic Power Generation - Non-Routine - TOTALS	<u>58,591</u>	<u>43,980</u>	<u>13,029</u>	<u>57,009</u>		<u>35,579</u>
29	<b>Other Power Generation - Non-Routine:</b>						
30	Combined Cycle - 2022	31,871	92,425	271,191	363,616		252,414
31	Peaker Site Security & Blackstart	626	83	333	416		667
32	Ford CHP Unit	-	37,729	2,088	39,817		22,483
33	Other Power Generation - Non-Routine - TOTALS	<u>32,497</u>	<u>130,237</u>	<u>273,612</u>	<u>403,849</u>		<u>275,564</u>
34	TOTAL NON-ROUTINE	<u>123,082</u>	<u>209,534</u>	<u>315,269</u>	<u>524,803</u>		<u>386,715</u>

**Michigan Public Service Commission**  
**DTE Electric Company**  
**Projected Capital Expenditures**  
**Steam, Hydraulic, Environmental**  
**and Other Power Generation - St. Clair Outage Event**  
**(\$000)**

Case No.: U-20162  
 Exhibit: A-12  
 Schedule: B5.1  
 Witness: M. T. Paul  
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(a)			(b)
			<b>Capital Expenditures</b>
<b>Line No.</b>	<b>Description</b>	<b>Unit</b>	<b>Historical 12 mos. ended 12/31/2017</b>
1	Boiler House Window Replacement	Common	2,719
2	Bridge Crane Restoration	Common	-
3	Turbine Area Lead and Asbestos Abatement	Common	-
4	Turbine Deck Lighting Replacement	Common	-
5	Turbine Vent Fans Replacement	Common	-
6	Turbine Window Replacement	Common	-
7	Turbine Roof Replacement	Common	-
8	Unit 1 to 3 Power Batteries (North and South) Replacement	Common	4
9	Misc Electrical Panels, Breakers and Transformers Replacement	Common	289
10	Asbestos and Lead Abatement/Removal	Common	3,360
11	Computer Equipment Replacement	Common	25
12	Plant Radio System Replacement	Common	184
13	Central Control Room Annunciator Replacement	Common	40
14	Sub Total	Common	6,621
15	Unit 1 LP Generator Brush Holder Assembly Replacement	Unit 1	-
16	Unit 1 HP and LP Exciter Cables Replacement	Unit 1	-
17	Unit 1 Generators Neutral Bus Cable Replacement	Unit 1	-
18	Unit 5 Asbestos Removal	Unit 5	-
19	Unit 6 Uninterruptible Power Supply (UPS) Replacement	Unit 6	-
20	Unit 6 Control Battery Chargers Replacement	Unit 6	-
21	Unit 6 Control Battery DC Distribution System Replacement	Unit 6	152
22	Unit 6 Replace #1 Boiler Water Circulating Pump	Unit 6	-
23	Unit 6 Replace #1 Boiler Water Circulating Pump	Unit 6	409
24	Unit 6 Replace #2 Boiler Water Circulating Pump	Unit 6	-
25	Unit 6 Replace #3 Boiler Water Circulating Pump	Unit 6	9
26	Unit 6 Replace #4 Boiler Water Circulating Pump	Unit 6	(5)
27	Unit 7 turbine dissembly, reassembly and inspection	Unit 7	10,708
28	Unit 7 Replace #2 Boiler Water Circulating Pump	Unit 7	425
29	Unit 7 Condenser Expansion Joints	Unit 7	67
30	Unit 7 MTG Front Standard Control & Monitoring System	Unit 7	6,073
31	Unit 7 MTG Restoration (other than LP1)	Unit 7	328
32	Sub Total	Units	18,165
33	Total		24,786

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Steam, Hydraulic, and  
Other Power Generation -- Routine  
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	(a)	(b)	(c)	(d)	(e)	(f)
		Capital Expenditures				
		Historical	Projected Bridge Period			Projected Test Year
Line No.	Total Capital - Routine	12 mos. ended 12/31/2017	12 mos. ending 12/31/2018	4 mos. ending 4/30/2019	16 mos. ending 4/30/2019	12 mos. ending 4/30/2020
	<b>DATA BY SITE</b>				<i>col. (c)+(d)</i>	
1	Fleet Support Services	3,156	2,832	257	3,088	770
2	Greenwood	6,956	1,826	600	2,426	2,500
3	Belle River/Range Road	29,945	11,571	8,747	20,317	27,983
4	St. Clair	32,446	15,626	4,259	19,885	11,373
5	River Rouge	5,371	3,076	467	3,543	1,400
6	Trenton Channel/Sibley Quarry	7,917	6,027	1,700	7,727	4,200
7	Monroe	130,376	111,936	34,416	146,352	100,210
8	Subtotal Steam Power Generation	216,167	152,894	50,445	203,339	148,436
9	Hydraulic Power Generation	2,529	3,242	2,257	5,499	5,397
10	Other Power Generation	26,456	28,123	4,275	32,398	20,008
11	Total by Site	245,152	184,259	56,976	241,235	173,841
	<b>DATA BY MAJOR CATEGORY</b>					
12	Reliability Tier 1 Units	132,466	92,744	33,824	126,568	103,289
13	Reliability Tier 2 Units	40,298	20,136	4,759	24,895	13,640
14	Fleet Support Services	3,156	2,832	257	3,088	770
15	Safety/Combustible Dust	25,029	25,493	7,812	33,306	20,021
16	Minor Environmental	15,219	11,689	3,793	15,482	10,717
17	Hydraulic Power Generation - Ludington	2,529	3,242	2,257	5,499	5,397
18	Other Power Generation - Peakers	26,456	28,123	4,275	32,398	20,008
19	Total by Major Category	245,152	184,259	56,976	241,235	173,841

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	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
Line No.	Facility	Calendar Year	Unit	High Level Breakdown	Lower Level Breakdown	Description	Key Concept	Amount	
1	Belle River/Range Road	2017	2	Reliability	Reliability Boiler	Unit 2 Expansion Joints	Flue Gas	1,284,449	
2	Belle River/Range Road	2017	2	Combustible Dust	Common System	Fuel Supply Unit 2 Coal Silo and Conveyor Belt Dust Collector	Fuel System	1,391,299	
3	Belle River/Range Road	2017	2	Safety	Reliability Turbine	Unit 2 HP & IP Turbine Valves	Turbine	2,268,501	
4	Belle River/Range Road	2017	2	Reliability	Reliability Turbine	Unit 2 HP Turbine	Turbine	4,357,466	
5	Belle River/Range Road	2017	2	Reliability	Reliability Boiler	Unit 2 Waterwall and Lower Slope Tubes	WW Tubes	7,448,930	
6	Belle River/Range Road	2017	Common	Minor Environmental	Common System	Range Road Landfill Capping	Land	1,352,322	
7	Belle River/Range Road	2017	Common	Reliability	Common System	Fuel Supply Coal Crusher 1	Fuel System	2,057,959	
8	Greenwood	2017	1	Safety	Reliability Turbine	Unit 1 Turbine Valves	Turbine	2,268,048	
9	Monroe without Large Enviro.	2017	1	Reliability	Reliability Boiler	Unit 1 Waterwall Tubes	WW Tubes	1,023,415	
10	Monroe without Large Enviro.	2017	1	Reliability	Reliability Turbine	Unit 1 South Boiler Feed Pump Turbine Blades	Turbine	1,355,185	
11	Monroe without Large Enviro.	2017	1	Minor Environmental	Air Quality	Unit 1 SCR Catalyst Layers 2 & 4	Boiler Emissions	1,376,299	
12	Monroe without Large Enviro.	2017	1	Reliability	Reliability Turbine	Unit 1 North Boiler Feed Pump Turbine Blades	Turbine	1,385,904	
13	Monroe without Large Enviro.	2017	1	Reliability	Reliability Boiler	Unit 1 Secondary Superheat Inlet Pendants	SH/RH Tubes	1,988,287	
14	Monroe without Large Enviro.	2017	1	Reliability	Common System	Unit 1 Coal Mill 1-2, 1-4 and 1-5 Silos	Fuel System	2,458,553	
15	Monroe without Large Enviro.	2017	2	Reliability	Reliability Boiler	Unit 2 Economizer Tubes	Econ Tubes	1,768,425	
16	Monroe without Large Enviro.	2017	2	Reliability	Reliability Boiler	Unit 2 Reheat Outlet Pendant Dutchmen	SH/RH Tubes	2,100,366	
17	Monroe without Large Enviro.	2017	2	Minor Environmental	Air Quality	Unit 2 SCR Catalyst Layers 2 & 4	Boiler Emissions	2,557,554	
18	Monroe without Large Enviro.	2017	2	Reliability	Reliability Boiler	Unit 2 Horizontal Reheater Tubes	SH/RH Tubes	2,661,027	
19	Monroe without Large Enviro.	2017	2	Reliability	Reliability Turbine	Unit 2 Generator	Generator	3,994,771	
20	Monroe without Large Enviro.	2017	2	Reliability	Common System	Unit 2 Dynamic Classifiers for Coal Mills 1-7	Fuel System	6,773,278	
21	Monroe without Large Enviro.	2017	2	Reliability	Reliability Boiler	Unit 2 Secondary Superheat Inlet Pendants	SH/RH Tubes	11,169,618	
22	Monroe without Large Enviro.	2017	2	Reliability	Reliability Boiler	Unit 2 Waterwall Tubes	WW Tubes	15,470,599	
23	Monroe without Large Enviro.	2017	3	Reliability	Common System	Unit 3 Coal Mill 3-4	Fuel System	1,188,738	
24	Monroe without Large Enviro.	2017	3	Reliability	Reliability Boiler Feedwater System	Unit 3 Main Unit Condenser	Condenser	1,805,902	
25	Monroe without Large Enviro.	2017	4	Minor Environmental	Air Quality	Unit 4 SCR Catalyst Layer 2	Boiler Emissions	1,201,747	
26	Monroe without Large Enviro.	2017	4	Reliability	Reliability Turbine	Unit 4 North Boiler Feed Pump Turbine Blades	Turbine	1,202,189	
27	Monroe without Large Enviro.	2017	Common	Safety	Common System	Fuel Supply Street Lighting	Lighting	1,175,053	
28	Monroe without Large Enviro.	2017	Common	Reliability	Common System	Fuel Supply Caterpillar D10 Dozer	Fuel System	1,398,009	
29	Monroe without Large Enviro.	2017	Common	Reliability	Common System	Fuel Supply Caterpillar D10 Dozer	Fuel System	1,408,953	
30	Monroe without Large Enviro.	2017	Common	Combustible Dust	Common System	Fuel Supply Coal Crusher Sizing Grid & Bypass Chute	Fuel System	1,452,340	
31	Monroe without Large Enviro.	2017	Common	Combustible Dust	Common System	Fuel Supply Unit 1 & 2 Cascade Counterweight Room	Fuel System	1,637,279	
32	Monroe without Large Enviro.	2017	Common	Combustible Dust	Common System	Fuel Supply Dust Collector 1	Fuel System	3,317,392	
33	Monroe without Large Enviro.	2017	Common	Reliability	Capacity Electrical	Fuel Supply Control System	Fuel System	3,609,547	
34	Monroe without Large Enviro.	2017	Common	Reliability	Common System	Outlet Canal Gates	Water	1,229,027	
35	Monroe without Large Enviro.	2017	Common	Reliability	Common System	Make-Up Water System	Water	1,784,890	
36	Monroe without Large Enviro.	2017	Common	Reliability	Common System	#8 Sootblowing Air Compressor	Plant Air	4,185,225	
37	Peakers	2017	Belle River	Reliability	Capacity Electrical	Belle River 12-1, 12-2 & 13-1 Peakers Control System	Peakers	1,805,737	
38	Peakers	2017	Delray	Reliability	Reliability Turbine	Delray 12-1 Peaker Generator Field	Peakers	1,711,751	
39	Peakers	2017	Delray	Reliability	Reliability Turbine	Delray 11-1 Peaker Turbine Hot Gas Path	Peakers	3,955,931	
40	Peakers	2017	Delray	Reliability	Reliability Turbine	Delray 12-1 Peaker Turbine Hot Gas Path	Peakers	4,046,178	
41	Peakers	2017	Northeast	Reliability	Reliability Turbine	Northeast 12-1 Peaker Turbine Combustion Cans & Hot Gas Path	Peakers	3,597,118	
42	Peakers	2017	Renaissance	Reliability	Reliability Turbine	Renaissance Unit 2 Peaker Combustion Cans	Peakers	2,417,370	
43	Peakers	2017	Superior	Reliability	Reliability Turbine	Superior 11-4 Peaker Turbine Combustion Cans & Hot Gas Path	Peakers	2,884,787	
44	St. Clair	2017	6	Reliability	Reliability Turbine	Unit 6 LP1 & LP2 Turbine L-0 Blades	Turbine	2,344,827	
45	St. Clair	2017	7	Reliability	Common System	Unit 7 Coal Mill D	Fuel System	1,025,211	
46	St. Clair	2017	7	Reliability	Common System	Unit 7 Coal Bunker Walls	Fuel System	1,082,849	
47	St. Clair	2017	7	Reliability	Reliability Boiler	Unit 7 North & South Air Preheater Baskets (Cold End)	Air Heater	1,119,316	
48	St. Clair	2017	7	Safety	Air Quality	Unit 7 Stack Liner Insulation	Boiler Emissions	1,120,690	
49	St. Clair	2017	7	Reliability	Reliability Turbine	Unit 7 MTG Low Pressure Turbine LP1 Blades	Turbine	1,278,107	
50	St. Clair	2017	7	Reliability	Reliability Boiler	Unit 7 Front & Rear Reheat Pendants	SH/RH Tubes	2,886,668	
51	St. Clair	2017	7	Reliability	Reliability Boiler	Unit 7 Waterwall Tubes	WW Tubes	3,387,643	
52	St. Clair	2017	7	Reliability	Reliability Turbine	Unit 7 MTG Low Pressure Turbine LP2 Blades	Turbine	3,985,782	
53	St. Clair	2017	Common	Reliability	Common System	Fuel Supply Caterpillar D10 Dozer	Fuel System	1,487,172	
54	Total 2017 Projects								145,245,684

**Michigan Public Service Commission  
DTE Electric Company  
Projected Capital Expenditures  
Years 2017 to 2020  
Routine Maintenance Projects greater than \$1M**

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Line No.	Facility	Calendar Year	Unit	High Level Breakdown	Lower Level Breakdown	Description	Key Concept	Amount
55	Belle River/Range Road	2018	1	Reliability	Reliability Turbine	Unit 1 HP Turbine	Turbine	3,700,067
56	Monroe without Large Enviro.	2018	1	Reliability	Reliability Turbine	Unit 1 North Boiler Feed Pump Turbine Condenser	Condenser	1,008,659
57	Monroe without Large Enviro.	2018	1	Safety	Reliability Turbine	Unit 1 Turbine Valves	Turbine	1,200,000
58	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler Feedwater System	Unit 1 Feedwater Heater 3	Feedwater Heater	2,148,382
59	Monroe without Large Enviro.	2018	1	Safety	Common System	Unit 1 ID Fan Discharge Dampers	Fans	2,617,601
60	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler	Unit 1 Economizer Tubes	Econ Tubes	2,900,000
61	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler	Unit 1 Horizontal Reheat Tubes	SH/RH Tubes	2,900,000
62	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler	Unit 1 Expansion Joints	Flue Gas	3,296,966
63	Monroe without Large Enviro.	2018	1	Reliability	Common System	Unit 1 Coal Mill 1-2, 1-4 and 1-5 Silos	Fuel System	3,328,991
64	Monroe without Large Enviro.	2018	1	Minor Environmental	Air Quality	Unit 1 SCR Catalyst Layers 2 & 4	Boiler Emissions	3,777,281
65	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler	Unit 1 Secondary Superheat Inlet Pendants	SH/RH Tubes	11,853,710
66	Monroe without Large Enviro.	2018	1	Reliability	Reliability Boiler	Unit 1 Waterwall Tubes	WW Tubes	11,928,188
67	Monroe without Large Enviro.	2018	3	Reliability	Reliability Turbine	Unit 3 South Boiler Feed Pump Turbine Blades	Turbine	1,329,391
68	Monroe without Large Enviro.	2018	3	Reliability	Reliability Boiler	Unit 3 Secondary Superheat Inlet Pendants	SH/RH Tubes	1,752,145
69	Monroe without Large Enviro.	2018	3	Reliability	Common System	Unit 3 Coal Mill 3-3 & 3-4 Silos	Fuel System	2,213,505
70	Monroe without Large Enviro.	2018	3	Minor Environmental	Air Quality	Unit 3 SCR Catalyst Layers 1 & 3	Boiler Emissions	2,244,606
71	Monroe without Large Enviro.	2018	4	Reliability	Reliability Boiler	Unit 4 Secondary Superheat Inlet Pendants	SH/RH Tubes	1,100,000
72	Monroe without Large Enviro.	2018	4	Reliability	Common System	Unit 4 Coal Mill 4-5 Silo	Fuel System	1,800,000
73	Monroe without Large Enviro.	2018	4	Minor Environmental	Air Quality	Unit 4 SCR Catalyst Layer 2	Boiler Emissions	2,342,869
74	Monroe without Large Enviro.	2018	Common	Combustible Dust	Common System	Fuel Supply Coal Crusher Sizing Grid & Bypass Chute	Fuel System	1,715,128
75	Monroe without Large Enviro.	2018	Common	Safety	Capacity Electrical	Fuel Supply 480V Breakers	Fuel System	2,121,390
76	Monroe without Large Enviro.	2018	Common	Combustible Dust	Common System	Fuel Supply Train Unloading Tripper Car Chute	Fuel System	2,200,000
77	Monroe without Large Enviro.	2018	Common	Combustible Dust	Common System	Fuel Supply Dust Collector 2	Fuel System	2,638,854
78	Monroe without Large Enviro.	2018	Common	Combustible Dust	Common System	Fuel Supply Dust Collector 3	Fuel System	2,682,819
79	Monroe without Large Enviro.	2018	Common	Reliability	Capacity Electrical	Fuel Supply Control System	Fuel System	8,321,538
80	Monroe without Large Enviro.	2018	Common	Safety	Common System	Unit 1 & 2 Precipitator SIR Lifting Rails & Trolleys	Flue Gas	1,024,486
81	Monroe without Large Enviro.	2018	Common	Reliability	Common System	Make-Up Water System	Water	1,356,873
82	Monroe without Large Enviro.	2018	Common	Reliability	Common System	#8 SBAC Compressor	Plant Air	1,490,264
83	Monroe without Large Enviro.	2018	Common	Reliability	Common System	Station Air Compressors	Plant Air	2,629,558
84	Peakers	2018	Belle River	Minor Environmental	Air Quality	Belle River Peakers CEMS	Peakers	1,000,000
85	Peakers	2018	Dean	Reliability	Capacity Electrical	Dean 11-1, 11-2, 12-1 & 12-2 Peakers Control System	Peakers	2,352,762
86	Peakers	2018	Delray	Reliability	Reliability Turbine	Delray 12-1 Peaker Turbine Hot Gas Path	Peakers	2,430,034
87	Peakers	2018	Greenwood	Reliability	Reliability Turbine	Greenwood 11-1 Peaker Turbine Combustion Cans	Peakers	1,800,000
88	Peakers	2018	Greenwood	Reliability	Capacity Electrical	Greenwood 11-1, 11-2 & 12-1 Peakers Control System	Peakers	1,933,456
89	Peakers	2018	Hancock	Reliability	Reliability Turbine	Hancock 11-3 Peaker Generator Field	Peakers	1,000,000
90	Peakers	2018	Hancock	Reliability	Capacity Electrical	Hancock 12-1 & 12-2 Peakers Control System	Peakers	1,144,708
91	Peakers	2018	Northeast	Reliability	Capacity Electrical	Northeast 11-1, 11-2, 11-3, 11-4, & 12-1 Peakers Control System	Peakers	4,000,000
92	Peakers	2018	Renaissance	Minor Environmental	Air Quality	Renaissance Peakers CEMS Monitoring	Peakers	1,000,000
93	Peakers	2018	Renaissance	Reliability	Reliability Turbine	Renaissance Unit 4 Peaker Turbine Combustion Cans	Peakers	2,594,642
94	Peakers	2018	Renaissance	Reliability	Capacity Electrical	Renaissance Units 1-4 Peakers Main Unit Transformer Insulators	Peakers	3,110,608
95	River Rouge	2018	3	Safety	Reliability Turbine	Unit 3 Reheat Stop and Intercept Turbine Valves	Turbine	1,614,358
96	St. Clair	2018	6	Safety	Reliability Turbine	Unit 6 Turbine Valves	Turbine	1,500,000
97	St. Clair	2018	6	Reliability	Reliability Turbine	Unit 6 LP1 & LP2 Turbine L-0 Blades	Turbine	4,065,268
98	Trenton Channel	2018	9	Reliability	Reliability Boiler	Unit 9 Main Steam Piping Tee	Boiler Piping	1,571,493
99	Trenton Channel	2018	9	Reliability	Reliability Turbine	Unit 9 South Boiler Feed Pump Turbine Blades	Turbine	1,696,073
100	Total 2018 Projects							122,436,673







**Michigan Public Service Commission**  
**DTE Electric Company**  
**Projected Capital Expenditures**  
**Allowance for Funds Used During Construction (AFUDC)**  
**Fossil Generation**  
**(\$000)**

Case No.: U-20162  
 Exhibit: A-12  
 Schedule: B5.1  
 Witness: M. T. Paul  
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		(a)	(b)	(c)
Line No.	Description		Adjusted Historical 12 mos. ended 12/31/2017	Projected 12 mos. ending 4/30/2020
1	Fossil Generation - Routine Expenditures 1/		<u>2,756</u>	<u>1,879</u>
2	Fossil Generation - Project Specific:			
3	Ludington		6,432	2,176
4	Combined Cycle		654	-
5	Other Small Projects		-	-
6	Subtotal Project Specific		<u>7,086</u>	<u>2,176</u>
7	Total AFUDC - Fossil Generation 2/		<u>9,842</u>	<u>4,055</u>

1/ AFUDC estimates for routine projects are developed at a high level based on historical trend

2/ The projected AFUDC amounts are based on the authorized U-18255 rate of 5.34%