

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-1. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - NOx																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MEC SOUTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined cycle power plant (Two Plants: North and South)	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	3064	MMBTU/H	Nominal 500 MW electricity production. Turbine rating of 3064 MMBTU/H (HHV) and HRSG duct burner rating of 889 MMBTU/H (HHV). A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Nitrogen Oxides (NOx)	SCR with DLNB [Selective Catalytic Reduction with Dry Low NOx Burners]	2	PPM	24-HR ROLLING AVG
LIQUEFACTION PLANT	ALASKA GASLINE DEVELOPMENT CORPORATION	KENAI PENNINSULA BOROUGH	AK	7/7/2022	The Liquefaction Plant is planned to encompass 921 acres, including 901 acres onshore for the liquefied natural gas (LNG) Plant as well as 20 acres offshore for the Marine Terminal. The Liquefaction Plant will be the terminus of an approximately 807-mile gas pipeline, allowing natural gas from Alaska’s North Slope to be shipped to outside markets. The stationary source will consist of structures and equipment associated with processing, storage, and loading of LNG. There will be three liquefaction trains combining to process up to approximately 20 million metric tons per annum of LNG.		Four Combined Cycle Gas-Fired Turbines	15.21	Natural Gas	384	MMBtu/hr	EUs 7 - 10 are combined cycle gas turbines used for power generation at LNG facility	Nitrogen Oxides (NOx)	SCR, DLN combustors, and good combustion practices	2	PPMV @ 15% O2	3-HOURS
LINCOLN LAND ENERGY CENTER	LINCOLN LAND ENERGY CENTER (A/K/A EMBERCLEAR)	SANGAMON	IL	7/29/2022	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, with each a Siemens combustion turbine (3,647 mmBtu/hr) and a heat recovery steam generator (HRSG) with duct burners (35 mmBtu/hr); fired by natural gas only. Other units at the facility include an auxiliary boiler, engines, piping and piping components, circuit breakers and roadways.	Additional facility-wide pollutants, in tons/year: PM10/PM 2.5: 131.7 and 131.6 (respectively); sulfuric acid mist (SAM): 17.2; greenhouse gasses (GHG): 3,586,918	Combined-Cycle Combustion Turbines	15.21	Natural Gas	3647	mmBtu/hour	Combined-cycle comustion turbines and heat recovery steam generators (HRSG) with a 35 mmBtu/hr duct burner. Turbine inlets would have evaporative cooling systems to cool the inlet air during warm weather to increase power output.	Nitrogen Oxides (NOx)	Dry low-NOx combustion with ultra-low NOx combustors; low-NOx duct burners; and selective catalytic reduction (SCR)	2	PPMV @ 15% O2	SEE NOTES
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL’s existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1- A nominally rated 667 MMBtu/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR), and oxidation catalyst.	15.21	Natural gas	667	MMBTU/H		Nitrogen Oxides (NOx)	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD

Table D-1. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - NOx

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2- A nominally rated 667 MMBtu/hr natural gas-fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR, and oxidation catalyst.	Nitrogen Oxides (NOx)	Dry low NOx burners and selective catalytic reduction for NOx control for each CTG/HRSG unit.	3	PPM	@15%OX; 24-HR ROLL AVG EXCEPT START/SHUT
MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND	MI	2/1/2023	Electric and steam generation		EUCTGHRSG1	15.21	Natural gas	4197.6	MMBTU/H		Nitrogen Oxides (NOx)	Selective catalytic regeneration	2	PPM	PPMVD AT 15%O2; 24-HR ROLL AVG EXC SU/SD
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGB	15.21	natural gas	4200	MMBtu per hour	Option 2 GE Model 7HA.03 Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 4,200 MMBtu per hour, equipped with a GE combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO. □  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Nitrogen Oxides (NOx)	Selective Catalytic Reduction system and dry-low-NOx combustors.	2	PPMVD	15% O2 BASED ON A 3-HR AVERAGE
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA SU/SD	15.21	Natural gas	3800	MMBtu per hour	Startup and Shutdown Limitations for Combustion Turbine Option 1: Siemens Model SCC6-9000HL Turbine.	Nitrogen Oxides (NOx)		20.7	TONS PER YEAR	FOR DURATION OF THE COMBINED SU/SD EVENT

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA	15.21	Natural Gas	3800	MMBtu per hour	Option 1 Siemens Model SCC6-9000HL Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 3,800 MMBtu per hour, equipped with a Siemens combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO. □  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Nitrogen Oxides (NOx)	Selective catalytic reduction system and dry-low-NOx combustors	0.0085	POUND PER MMBTU	
WABASH VALLEY RESOURCES, LLC		VIGO	IN	1/11/2024			Integrated Gasification Combined Cycle Combustion Turbine	15.21	Natural Gas	2292	MMBtu/hr	Can also combust hydrogen syngas and mixtures of natural gas/hydrogen syngas	Nitrogen Oxides (NOx)	Steam Injection/SCR and Good Combustion Practices	2	PPMV	15% OXYGEN WHEN COMBUSTING >50% NAT. GAS

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
COLORADO BEND ENERGY CENTER	COLORADO BEND II POWER, LLC	WHARTON	TX	4/1/2015	Combined cycle combustion turbine electric generating facility. These will be the first two General Electric (GE) Model 7HA.02 Combustion Turbines in a combined cycle power plant that uses two combustion turbines and one steam turbine using air-cooled condensers and controlled with Selective catalytic reduction (SCR) and oxidation catalyst.		Combined-cycle gas turbine electric generating facility	15.21	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	Particulate matter, total (TPM)	efficient combustion, natural gas fuel	43	LB/H	
COLORADO BEND ENERGY CENTER	COLORADO BEND II POWER, LLC	WHARTON	TX	4/1/2015	Combined cycle combustion turbine electric generating facility. These will be the first two General Electric (GE) Model 7HA.02 Combustion Turbines in a combined cycle power plant that uses two combustion turbines and one steam turbine using air-cooled condensers and controlled with Selective catalytic reduction (SCR) and oxidation catalyst.		Combined-cycle gas turbine electric generating facility	15.21	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	Particulate matter, total &lt; 10 Åµ (TPM10)	efficient combustion, natural gas fuel	43	LB/H	
COLORADO BEND ENERGY CENTER	COLORADO BEND II POWER, LLC	WHARTON	TX	4/1/2015	Combined cycle combustion turbine electric generating facility. These will be the first two General Electric (GE) Model 7HA.02 Combustion Turbines in a combined cycle power plant that uses two combustion turbines and one steam turbine using air-cooled condensers and controlled with Selective catalytic reduction (SCR) and oxidation catalyst.		Combined-cycle gas turbine electric generating facility	15.21	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	efficient combustion, natural gas fuel	43	LB/H	
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2022	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total (TPM)	good combustion practices along with clean fuels	0.0068	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2022	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total &lt; 10 Åµ (TPM10)	good combustion practices along with clean fuels	0.0068	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2022	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	good combustion practices along with clean fuels	0.0068	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2144	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total (TPM)	good combustion practices along with clean fuels	0.0085	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2144	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total &lt; 10 Åµ (TPM10)	good combustion practices along with clean fuels	0.0085	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	<div>Note: The proposed modification was not installed.❑</div> <div>Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.❑</div> <div>Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input &amp; 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input &amp; 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.❑</div> <div>Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.</div>	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2144	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	good combustion practices along with clean fuels	0.0085	LB/MMBTU	HHV, 3 HR AVG. SEE NOTES.

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two combined cycle turbines with out duct burner	15.21	Natural Gas	2291.64	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode, the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. (Operational limits are for each CCCT NG-fired without duct burner)	Particulate matter, total (TPM)	Good combustion practices and low sulfur fuels	0.0068	LB/MMBTU	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two combined cycle turbines with out duct burner	15.21	Natural Gas	2291.64	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode, the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. (Operational limits are for each CCCT NG-fired without duct burner)	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and low sulfur fuels	0.0068	LB/MMBTU	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two combined cycle turbines with out duct burner	15.21	Natural Gas	2291.64	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode, the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. (Operational limits are for each CCCT NG-fired without duct burner)	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and low sulfur fuels	0.0068	LB/MMBTU	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two Combine Cycle Combustion Turbine with Duct Burner	15.21	Natural Gas	3001.57	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. . (Operational limits are for each CCCT NG-fired with duct burner)	Particulate matter, total (TPM)	Good combustion practices and low sulfur fuels	0.0066	LB/MMBTU	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two Combine Cycle Combustion Turbine with Duct Burner	15.21	Natural Gas	3001.57	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. . (Operational limits are for each CCCT NG-fired with duct burner)	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and low sulfur fuels	0.0066	LB/MMBTU	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two Combine Cycle Combustion Turbine with Duct Burner	15.21	Natural Gas	3001.57	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controled by SCR and oxidation catalyst. . (Operational limits are for each CCCT NG-fired with duct burner)	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and low sulfur fuels	0.0066	LB/MMBTU	

Appendix D - RBLC Search Results Oglethorpe Power Corporation																		
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																		
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition	
EAGLE MOUNTAIN STEAM ELECTRIC STATION	EAGLE MOUNTAIN POWER COMPANY LLC	TARRANT	TX	6/18/2015	Eagle is proposing to construct two new combined cycle combustion turbines (CTG) which will generate electric power for sale on the wholesale electric market. The ancillary equipment includes an auxiliary boiler, a firewater pump, an emergency generator, a steam turbine, and various support facilities.		Combined Cycle Turbines (>25 MW) natural gas	15.21	natural gas	210	MW	Two power configuration options authorized Siemens 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE 210 MW + 349.2 MMBtu/hr duct burner	Particulate matter, total < 10 µm (TPM10)		35.47	LB/H		
EAGLE MOUNTAIN STEAM ELECTRIC STATION	EAGLE MOUNTAIN POWER COMPANY LLC	TARRANT	TX	6/18/2015	Eagle is proposing to construct two new combined cycle combustion turbines (CTG) which will generate electric power for sale on the wholesale electric market. The ancillary equipment includes an auxiliary boiler, a firewater pump, an emergency generator, a steam turbine, and various support facilities.		Combined Cycle Turbines (>25 MW) natural gas	15.21	natural gas	210	MW	Two power configuration options authorized Siemens 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE 210 MW + 349.2 MMBtu/hr duct burner	Particulate matter, total < 2.5 µm (TPM2.5)		35.47	LB/H		
THE EMPIRE DISTRICT ELECTRIC COMPANY	THE EMPIRE DISTRICT ELECTRIC COMPANY	CHEROKEE	KS	7/14/2015	The Empire District Electric Company Riverton Plant (EDEC) (Source ID: 0210002) is a fossil fuel electricity generation facility located in Cherokee County, Kansas.	This PSD permit with tracking number C-12987 is a modification of PSD permits C-12670 (Administrative Amendment, issued on 2/19/2015) and C-10913 (original PSD Permit for the proposed project, issued on 7/11/2013).	Combined cycle combustion turbine	15.21	Natural gas	250	MW	Combined cycle combustion unit; this unit includes a heat recovery steam generator (HRSG) with supplemental natural gas duct firing (duct burners) and a condensing steam turbine generator with SCR and CO catalyst.	Particulate matter, total < 2.5 µm (TPM2.5)	dry low NOx burners heat recovery steam generator (HRSG)	30.2	LB/H		
THE EMPIRE DISTRICT ELECTRIC COMPANY	THE EMPIRE DISTRICT ELECTRIC COMPANY	CHEROKEE	KS	7/14/2015	The Empire District Electric Company Riverton Plant (EDEC) (Source ID: 0210002) is a fossil fuel electricity generation facility located in Cherokee County, Kansas.	This PSD permit with tracking number C-12987 is a modification of PSD permits C-12670 (Administrative Amendment, issued on 2/19/2015) and C-10913 (original PSD Permit for the proposed project, issued on 7/11/2013).	Combined cycle combustion turbine	15.21	Natural gas	250	MW	Combined cycle combustion unit; this unit includes a heat recovery steam generator (HRSG) with supplemental natural gas duct firing (duct burners) and a condensing steam turbine generator with SCR and CO catalyst.	Particulate matter, total < 10 µm (TPM10)	dry low NOx burners heat recovery steam generator (HRSG)	30.2	LB/H		
THE EMPIRE DISTRICT ELECTRIC COMPANY	THE EMPIRE DISTRICT ELECTRIC COMPANY	CHEROKEE	KS	7/14/2015	The Empire District Electric Company Riverton Plant (EDEC) (Source ID: 0210002) is a fossil fuel electricity generation facility located in Cherokee County, Kansas.	This PSD permit with tracking number C-12987 is a modification of PSD permits C-12670 (Administrative Amendment, issued on 2/19/2015) and C-10913 (original PSD Permit for the proposed project, issued on 7/11/2013).	Combined cycle combustion turbine	15.21	Natural gas	250	MW	Combined cycle combustion unit; this unit includes a heat recovery steam generator (HRSG) with supplemental natural gas duct firing (duct burners) and a condensing steam turbine generator with SCR and CO catalyst.	Particulate matter, total (TPM)	dry low NOx burners heat recovery steam generator (HRSG)	30.2	LB/H		
CLEAN ENERGY FUTURE - LORDSTOWN, LLC	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	TRUMBULL	OH	8/25/2015	962 MW (gross winter output) combined cycle gas turbine (CCGT) facility	Initial installation permit for the construction of the Lordstown Energy Center - a nominal 940 MW combined cycle gas turbine (CCGT) facility.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	2725	MMBTU/H	Combined cycle combustion turbine (2,725 MMBtu/hr heat input turbine at ISO conditions and 179 MMBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. Limits and throughputs are for single turbine.	Particulate matter, total < 10 µm (TPM10)	Low sulfur fuel	14.9	LB/H	WITH DUCT BURNER. SEE NOTES.	
CLEAN ENERGY FUTURE - LORDSTOWN, LLC	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	TRUMBULL	OH	8/25/2015	962 MW (gross winter output) combined cycle gas turbine (CCGT) facility	Initial installation permit for the construction of the Lordstown Energy Center - a nominal 940 MW combined cycle gas turbine (CCGT) facility.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	2725	MMBTU/H	Combined cycle combustion turbine (2,725 MMBtu/hr heat input turbine at ISO conditions and 179 MMBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. Limits and throughputs are for single turbine.	Particulate matter, total < 2.5 µm (TPM2.5)	Low sulfur fuel	14.9	LB/H	WITH DUCT BURNER. SEE NOTES.	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MOXIE FREEDOM GENERATION PLANT	MOXIE FREEDOM LLC	LUZERNE	PA	9/1/2015	<p>The Project is for the construction and operation of two identical 1 x 1 power blocks, each consisting of a combustion gas turbine (CGT or CT) and a steam turbine (ST) configured in single shaft alignment, where each CT and ST train share one common electric generator. The turbines to be used for this project are Two General Electric (GE) 7HA.02 CTs, each in 1 x 1 single shaft combined- cycle power islands.</p> <p>Each CT and duct burner will exclusively fire pipeline-quality natural gas. The HRSGs will be equipped with selective catalytic reduction (SCR) to minimize nitrogen oxide (NOx) emissions and oxidation catalysts to minimize carbon monoxide (CO) and volatile organic compound (VOC) emissions from the CTs and DBâ€™s. The Project will also include several pieces of ancillary equipment. The list of equipment includes:</p> <p>One fuel gas dew-point heater - natural gas fired, common for all CTs</p> <p>Two CT inlet evaporative coolers - one for each CT (not emissions sources)</p> <p>Two air-cooled condensers (ACCs) - one for each HRSG (not emissions sources)</p> <p>One auxiliary boiler, natural gas-fired</p> <p>One diesel engine powered emergency generator</p> <p>One diesel engine powered fire water pump</p> <p>Diesel fuel, lubricating oil, and aqueous ammonia storage tanks</p> <p>The project once operational will produce 1050 MW Electric Generation</p>		Combustion Turbine With Duct Burner	15.21	Natural Gas	3727	MMBtu/hr	<p>DLN burner, SCR, Oxidation Catalyst and shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice. shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, carbon dioxide, and ammonia emissions on the exhaust of each combined-cycle powerblock. □</p> <p>Emissions limits are for each combustion turbine/duct burner block.</p>	Particulate matter, total (TPM)		0.0063	LB/MMBTU	
MOXIE FREEDOM GENERATION PLANT	MOXIE FREEDOM LLC	LUZERNE	PA	9/1/2015	<p>The Project is for the construction and operation of two identical 1 x 1 power blocks, each consisting of a combustion gas turbine (CGT or CT) and a steam turbine (ST) configured in single shaft alignment, where each CT and ST train share one common electric generator. The turbines to be used for this project are Two General Electric (GE) 7HA.02 CTs, each in 1 x 1 single shaft combined- cycle power islands.</p> <p>Each CT and duct burner will exclusively fire pipeline-quality natural gas. The HRSGs will be equipped with selective catalytic reduction (SCR) to minimize nitrogen oxide (NOx) emissions and oxidation catalysts to minimize carbon monoxide (CO) and volatile organic compound (VOC) emissions from the CTs and DBâ€™s. The Project will also include several pieces of ancillary equipment. The list of equipment includes:</p> <p>One fuel gas dew-point heater - natural gas fired, common for all CTs</p> <p>Two CT inlet evaporative coolers - one for each CT (not emissions sources)</p> <p>Two air-cooled condensers (ACCs) - one for each HRSG (not emissions sources)</p> <p>One auxiliary boiler, natural gas-fired</p> <p>One diesel engine powered emergency generator</p> <p>One diesel engine powered fire water pump</p> <p>Diesel fuel, lubricating oil, and aqueous ammonia storage tanks</p> <p>The project once operational will produce 1050 MW Electric Generation</p>		Combustion Turbine With Duct Burner	15.21	Natural Gas	3727	MMBtu/hr	<p>DLN burner, SCR, Oxidation Catalyst and shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice. shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, carbon dioxide, and ammonia emissions on the exhaust of each combined-cycle powerblock. □</p> <p>Emissions limits are for each combustion turbine/duct burner block.</p>	Particulate matter, total &lt; 10 Åµ (TPM10)		0.0063	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MOXIE FREEDOM GENERATION PLANT	MOXIE FREEDOM LLC	LUZERNE	PA	9/1/2015	<p>The Project is for the construction and operation of two identical 1 x 1 power blocks, each consisting of a combustion gas turbine (CGT or CT) and a steam turbine (ST) configured in single shaft alignment, where each CT and ST train share one common electric generator. The turbines to be used for this project are Two General Electric (GE) 7HA.02 CTs, each in 1 x 1 single shaft combined- cycle power islands.</p> <p>Each CT and duct burner will exclusively fire pipeline-quality natural gas. The HRSGs will be equipped with selective catalytic reduction (SCR) to minimize nitrogen oxide (NOx) emissions and oxidation catalysts to minimize carbon monoxide (CO) and volatile organic compound (VOC) emissions from the CTs and DBs™s. The Project will also include several pieces of ancillary equipment. The list of equipment includes:</p> <p>One fuel gas dew-point heater - natural gas fired, common for all CTs</p> <p>Two CT inlet evaporative coolers - one for each CT (not emissions sources)</p> <p>Two air-cooled condensers (ACCs) - one for each HRSG (not emissions sources)</p> <p>One auxiliary boiler, natural gas-fired</p> <p>One diesel engine powered emergency generator</p> <p>One diesel engine powered fire water pump</p> <p>Diesel fuel, lubricating oil, and aqueous ammonia storage tanks</p> <p>The project once operational will produce 1050 MW Electric Generation</p>		Combustion Turbine With Duct Burner	15.21	Natural Gas	3727	MMBtu/hr	DLN burner, SCR, Oxidation Catalyst and shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice. shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, carbon dioxide, and ammonia emissions on the exhaust of each combined-cycle powerblock.□ Emissions limits are for each combustion turbine/duct burner block.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		0.0063	LB/MMBTU	
LON C. HILL POWER STATION	LON C. HILL, L.P.	NUECES	TX	10/2/2015	<p>The Lon C. Hill Power Station (LCHP) will include two natural gas-fired combined cycle combustion turbines (CTGs) equipped with dry low NOx burners (DLNs), heat recovery steam generators (HRSG), and natural gas-fired duct burners (DBs). Ancillary equipment includes evaporative coolers or inlet chillers, a single steam turbine (ST), auxiliary boiler, emergency generator, firewater pump, two cooling towers, oil water separator, degreaser, two diesel storage tanks, gasoline storage tank, selective catalytic reduction (SCR) and ammonia (NH3) handling systems including an NH3 storage tank, and two water tanks. The LCHP will be a 2x1 combined cycle power plant consisting of two CTGs, two HRSGs and one ST. The CTGs and ST will be one of two options: two Siemens SCC6-5000 CTGs and a SST6-5000 ST, or two General Electric 7FA CTGs and a D-11 ST.</p>		Combined Cycle Turbines (&gt;25 MW)	15.21	natural gas	195	MW	Two power configuration options authorized□ Siemens &€" 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner□ GE &€" 195 MW + 670 MMBtu/hr duct burner	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and use of pipeline quality natural gas	16	LB/HR	
LON C. HILL POWER STATION	LON C. HILL, L.P.	NUECES	TX	10/2/2015	<p>The Lon C. Hill Power Station (LCHP) will include two natural gas-fired combined cycle combustion turbines (CTGs) equipped with dry low NOx burners (DLNs), heat recovery steam generators (HRSG), and natural gas-fired duct burners (DBs). Ancillary equipment includes evaporative coolers or inlet chillers, a single steam turbine (ST), auxiliary boiler, emergency generator, firewater pump, two cooling towers, oil water separator, degreaser, two diesel storage tanks, gasoline storage tank, selective catalytic reduction (SCR) and ammonia (NH3) handling systems including an NH3 storage tank, and two water tanks. The LCHP will be a 2x1 combined cycle power plant consisting of two CTGs, two HRSGs and one ST. The CTGs and ST will be one of two options: two Siemens SCC6-5000 CTGs and a SST6-5000 ST, or two General Electric 7FA CTGs and a D-11 ST.</p>		Combined Cycle Turbines (&gt;25 MW)	15.21	natural gas	195	MW	Two power configuration options authorized□ Siemens &€" 240 MW + 250 million British thermal units per hour (MMBtu/hr) duct burner□ GE &€" 195 MW + 670 MMBtu/hr duct burner	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and use of pipeline quality natural gas	16	LB/HR	
FGE EAGLE PINES PROJECT	FGE EAGLE PINES, LLC	CHEROKEE	TX	11/4/2015	<p>The FGEEP Project will include three natural gas-fired combined cycle (NGCC) power blocks, each block comprised of two gas-fired combustion turbines, two supplemental fired duct burners (DBs) heat recovery steam generators (HRSGs), and one steam turbine. FGEEP selected Alstom GT36 combustion turbines (CTs), each nominally rated at 321 megawatts (MW). Each HRSG is equipped with DBs that will have a maximum design heat input capacity of 799 million British thermal units per hour (MMBtu/hr). The CTs and DBs are fueled with pipeline quality natural gas. Each power block will also have a steam turbine generator designed to produce approximately 502 MW with the additional duct firing. Each of the three blocks will include the following ancillary equipment: one multi-cell condenser/cooling tower, one emergency generator, one firewater pump, two diesel storage tanks, and pressurized aqueous ammonia storage tanks.</p>		Combined Cycle Turbines (&gt;25 MW)	15.21	natural gas	321	MW	Alstom GT36 combustion turbines (321 MW)+ 799 million British thermal units per hour (MMBtu/hr) duct burner	Particulate matter, total &lt; 10 Åµ (TPM10)		21.4	LB/H	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
FGE EAGLE PINES PROJECT	FGE EAGLE PINES, LLC	CHEROKEE	TX	11/4/2015	The FGEEP Project will include three natural gas-fired combined cycle (NGCC) power blocks, each block comprised of two gas-fired combustion turbines, two supplemental fired duct burners (DBs) heat recovery steam generators (HRSGs), and one steam turbine. FGEEP selected Alstom GT36 combustion turbines (CTs), each nominally rated at 321 megawatts (MW). Each HRSG is equipped with DBs that will have a maximum design heat input capacity of 799 million British thermal units per hour (MMBtu/hr). The CTs and DBs are fueled with pipeline quality natural gas. Each power block will also have a steam turbine generator designed to produce approximately 502 MW with the additional duct firing. Each of the three blocks will include the following ancillary equipment: one multi-cell condenser/cooling tower, one emergency generator, one firewater pump, two diesel storage tanks, and pressurized aqueous ammonia storage tanks.		Combined Cycle Turbines (>25 MW)	15.21	natural gas	321	MW	Alstom GT36 combustion turbines (321 MW)+ 799 million British thermal units per hour (MMBtu/hr) duct burner	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		21.4	LB/H	
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-800UH VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST. □ □ HEAT RATE LIMITED TO 6,793 BTU/KWH (NET) AT ALL TIMES WHEN THE CTS/HRSGS ARE OPERATING (LHV). INITIAL COMPLIANCE WITH THE HEAT RATE LIMITATION SHALL BE DEMONSTRATED USING ASME PTC-46 TEST METHOD. ANNUAL THERMAL EFFICIENCY TEST CONDUCTED ACCORDING TO ASME PTC-46, OR ANOTHER METHODOLOGY APPROVED BY MDE-ARMA, AND COMPARE RESULTS TO DESIGN THERMAL EFFICIENCY VALUE. AN EXCEEDANCE OF THE HEAT RATE LIMIT IS NOT CONSIDERED A VIOLATION OF THIS PERMIT, BUT TRIGGERS A REQUIREMENT FOR MATTAWOMAN TO SUBMIT A MAINTENANCE PLAN TO MDE-ARMA WHICH SPECIFIES THE ACTIONS MATTAWOMAN PLANS TO TAKE IN ORDER TO ACHIEVE THE HEAT RATE LIMIT. THE PLAN SHALL INCLUDE A TIMEFRAME THAT THE HEAT	Particulate matter, filterable (FPM)	USE OF PIPELINE-QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICE	8.9	LB/H	3-HOUR BLOCK AVERAGE (W/OUT DUCT FIRING)
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-800UH VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST. □ □ HEAT RATE LIMITED TO 6,793 BTU/KWH (NET) AT ALL TIMES WHEN THE CTS/HRSGS ARE OPERATING (LHV). INITIAL COMPLIANCE WITH THE HEAT RATE LIMITATION SHALL BE DEMONSTRATED USING ASME PTC-46 TEST METHOD. ANNUAL THERMAL EFFICIENCY TEST CONDUCTED ACCORDING TO ASME PTC-46, OR ANOTHER METHODOLOGY APPROVED BY MDE-ARMA, AND COMPARE RESULTS TO DESIGN THERMAL EFFICIENCY VALUE. AN EXCEEDANCE OF THE HEAT RATE LIMIT IS NOT CONSIDERED A VIOLATION OF THIS PERMIT, BUT TRIGGERS A REQUIREMENT FOR MATTAWOMAN TO SUBMIT A MAINTENANCE PLAN TO MDE-ARMA WHICH SPECIFIES THE ACTIONS MATTAWOMAN PLANS TO TAKE IN ORDER TO ACHIEVE THE HEAT RATE LIMIT. THE PLAN SHALL INCLUDE A TIMEFRAME THAT THE HEAT	Particulate matter, total &lt; 10 Åµ (TPM10)	USE OF PIPELINE QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICES	17.9	LB/H	W/OUT DUCT FIRING, AVG. OF 3 STACK TESTS

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-800UH VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST. □ □ HEAT RATE LIMITED TO 6,793 BTU/KWH (NET) AT ALL TIMES WHEN THE CTS/HRSGS ARE OPERATING (LHV). INITIAL COMPLIANCE WITH THE HEAT RATE LIMITATION SHALL BE DEMONSTRATED USING ASME PTC-46 TEST METHOD. ANNUAL THERMAL EFFICIENCY TEST CONDUCTED ACCORDING TO ASME PTC-46, OR ANOTHER METHODOLOGY APPROVED BY MDE-ARMA, AND COMPARE RESULTS TO DESIGN THERMAL EFFICIENCY VALUE. AN EXCEEDANCE OF THE HEAT RATE LIMIT IS NOT CONSIDERED A VIOLATION OF THIS PERMIT, BUT TRIGGERS A REQUIREMENT FOR MATTAWOMAN TO SUBMIT A MAINTENANCE PLAN TO MDE-ARMA WHICH SPECIFIES THE ACTIONS MATTAWOMAN PLANS TO TAKE IN ORDER TO ACHIEVE THE HEAT RATE LIMIT. THE PLAN SHALL INCLUDE A TIMEFRAME THAT THE HEAT	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	USE OF PIPELINE QUALITY NATURAL GAS EXCLUSIVELY AND GOOD COMBUSTION PRACTICES.	17.9	LB/H	W/OUT DUCT FIRING, AVG. OF 3 STACK TESTS
CPV TOWANTIC, LLC	CPV TOWANTIC, LLC	NEW HAVEN	CT	11/30/2015	805 MW Combined Cycle Power Plant		Combined Cycle Power Plant	15.21	Natural Gas	21200000	MMBtu/12 months		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		9.73	LB/H	
CPV TOWANTIC, LLC	CPV TOWANTIC, LLC	NEW HAVEN	CT	11/30/2015	805 MW Combined Cycle Plant		Combined Cycle Power Plant	15.21	Natural Gas	21200000	MMBtu/yr		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		9.73	LB/H	
LACKAWANNA ENERGY CTR/JESSUP	LACKAWANNA ENERGY CENTER, LLC	LACKAWANNA	PA	12/23/2015	This plan approval is for the construction and temporary operation of three (3) identical General Electric Model 7HA.02 natural gas fired combustion turbines and heat recovery steam generator with duct burners (CT/HRSG). Each CT/HRSG combined-cycle process block includes one (1) combustion gas turbine and one (1) heat recovery steam generator with duct burners with all three (3) CT/HRSG sharing one (1) steam turbine. The entire power block is rated at 1,500 MW. Additional equipment includes: one (1) 2,000 kW diesel-fired emergency generator one (1) 315 HP diesel-fired emergency fire water pump one (1) 184.8 MM BTU/hr natural gas fired boiler one (1) 12 MMBTU/hr natural gas fuel gas heater two (2) Diesel fuel storage tanks four (4) lubricating oil tanks one (1) aqueous ammonia storage tank		Combustion turbine with duct burner	15.21	Natural gas	3304.3	MMBtu/hr	Limits are for each CCCT and yearly limits are for cumulative turbine and duct burner. Duct burner throughput is 637.9 MMBtu/hr.	Particulate matter, filterable (FPM)	Exclusive natural gas, high-efficiency inlet air filters and DLN	0.003	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LACKAWANNA ENERGY CTR/JESSUP	LACKAWANNA ENERGY CENTER, LLC	LACKAWANNA	PA	12/23/2015	This plan approval is for the construction and temporary operation of three (3) identical General Electric Model 7HA.02 natural gas fired combustion turbines and heat recovery steam generator with duct burners (CT/HRSG). Each CT/HRSG combined-cycle process block includes one (1) combustion gas turbine and one (1) heat recovery steam generator with duct burners with all three (3) CT/HRSG sharing one (1) steam turbine. The entire power block is rated at 1,500 MW. Additional equipment includes: one (1) 2,000 kW diesel-fired emergency generator one (1) 315 HP diesel-fired emergency fire water pump one (1) 184.8 MM BTU/hr natural gas fired boiler one (1) 12 MMBTU/hr natural gas fuel gas heater two (2) Diesel fuel storage tanks four (4) lubricating oil tanks one (1) aqueous ammonia storage tank		Combustion turbine with duct burner	15.21	Natural gas	3304.3	MMBtu/hr	Limits are for each CCCT and yearly limits are for cumulative turbine and duct burner. Duct burner throughput is 637.9 MMBtu/hr.	Particulate matter, total &lt; 10 Åµ (TPM10)	Exclusive natural gas, high-efficiency inlet air filters and DLN	0.0059	LB/MMBTU	
LACKAWANNA ENERGY CTR/JESSUP	LACKAWANNA ENERGY CENTER, LLC	LACKAWANNA	PA	12/23/2015	This plan approval is for the construction and temporary operation of three (3) identical General Electric Model 7HA.02 natural gas fired combustion turbines and heat recovery steam generator with duct burners (CT/HRSG). Each CT/HRSG combined-cycle process block includes one (1) combustion gas turbine and one (1) heat recovery steam generator with duct burners with all three (3) CT/HRSG sharing one (1) steam turbine. The entire power block is rated at 1,500 MW. Additional equipment includes: one (1) 2,000 kW diesel-fired emergency generator one (1) 315 HP diesel-fired emergency fire water pump one (1) 184.8 MM BTU/hr natural gas fired boiler one (1) 12 MMBTU/hr natural gas fuel gas heater two (2) Diesel fuel storage tanks four (4) lubricating oil tanks one (1) aqueous ammonia storage tank		Combustion turbine with duct burner	15.21	Natural gas	3304.3	MMBtu/hr	Limits are for each CCCT and yearly limits are for cumulative turbine and duct burner. Duct burner throughput is 637.9 MMBtu/hr.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Exclusive natural gas, high-efficiency inlet air filters and DLN	0.0059	LB/MMBTU	
TENASKA PA PARTNERS/WESTMORE LAND GEN FAC	TENASKA PA PARTNERS LLC	WESTMORELAND	PA	2/12/2016	The plan approval will allow construction and temporary operation of a power plant is a single 2 on 1 combined cycle turbine configuration with 2 combustion turbines serving a single steam turbine generator equipped with heat recovery steam generator with supplemental 400MMBTu/hr natural gas fired duct burners. The approximate maximum plant nominal generating capacity is 930-1065 MW. Additional facilities will include 245 MMBtu/hr Auxiliary Boiler, one cooling tower, one diesel-fired emergency generator, and one diesel-fired emergency fire pump engine.	Application for plan approval 65-00990E received on 12/10/2015 from Tenaska to reduce the facility wide PTE authorized under plan approval 65-00990C based on revised emission information for startup and shutdown from the manufacturer.	Large combustion turbine	15.21	Natural Gas	0		This process entry is for operations with the duct burner. Limits entered are for each turbine.	Particulate matter, total (TPM)	Good combustion practices with the use of low ash/sulfer fuels	0.0039	LB/MMBTU	
TENASKA PA PARTNERS/WESTMORE LAND GEN FAC	TENASKA PA PARTNERS LLC	WESTMORELAND	PA	2/12/2016	The plan approval will allow construction and temporary operation of a power plant is a single 2 on 1 combined cycle turbine configuration with 2 combustion turbines serving a single steam turbine generator equipped with heat recovery steam generator with supplemental 400MMBTu/hr natural gas fired duct burners. The approximate maximum plant nominal generating capacity is 930-1065 MW. Additional facilities will include 245 MMBtu/hr Auxiliary Boiler, one cooling tower, one diesel-fired emergency generator, and one diesel-fired emergency fire pump engine.	Application for plan approval 65-00990E received on 12/10/2015 from Tenaska to reduce the facility wide PTE authorized under plan approval 65-00990C based on revised emission information for startup and shutdown from the manufacturer.	Large combustion turbine	15.21	Natural Gas	0		This process entry is for operations with the duct burner. Limits entered are for each turbine.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices with the use of low ash/sulfer fuels	0.0039	LB/MMBTU	
TENASKA PA PARTNERS/WESTMORE LAND GEN FAC	TENASKA PA PARTNERS LLC	WESTMORELAND	PA	2/12/2016	The plan approval will allow construction and temporary operation of a power plant is a single 2 on 1 combined cycle turbine configuration with 2 combustion turbines serving a single steam turbine generator equipped with heat recovery steam generator with supplemental 400MMBTu/hr natural gas fired duct burners. The approximate maximum plant nominal generating capacity is 930-1065 MW. Additional facilities will include 245 MMBtu/hr Auxiliary Boiler, one cooling tower, one diesel-fired emergency generator, and one diesel-fired emergency fire pump engine.	Application for plan approval 65-00990E received on 12/10/2015 from Tenaska to reduce the facility wide PTE authorized under plan approval 65-00990C based on revised emission information for startup and shutdown from the manufacturer.	Large combustion turbine	15.21	Natural Gas	0		This process entry is for operations with the duct burner. Limits entered are for each turbine.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices	0.0039	LB/MMBTU	
DECORDOVA STEAM ELECTRIC STATION	DECORDOVA II POWER COMPANY LLC	HOOD	TX	3/8/2016	The DeCordova Station will consist of two combustion turbine generators (CTGs) operating in simple cycle or combined cycle modes. The gas turbines will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE). Simple cycle operations limited to 2,500 hr/yr.	Particulate matter, total &lt; 10 Åµ (TPM10)	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	LB/H	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
DECORDOVA STEAM ELECTRIC STATION	DECORDOVA II POWER COMPANY LLC	HOOD	TX	3/8/2016	The DeCordova Station will consist of two combustion turbine generators (CTGs) operating in simple cycle or combined cycle modes. The gas turbines will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE). Simple cycle operations limited to 2,500 hr/yr.	Particulate matter, total & 2.5 Åµ (TPM2.5)	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	35.47	LB/H	
OKEECHOBEE CLEAN ENERGY CENTER	FLORIDA POWER & LIGHT	OKEECHOBEE	FL	3/9/2016	Fossil-fueled power plant, consisting of a 3-on-1 combined cycle unit and auxiliary equipment. The combined cycle unit consists of three GE 7HA.02 turbines, each with nominal generating capacity of 350 MW. The total generating capacity for the combined cycle unit is 1,600 MW.	Technical evaluation of project available at □ <a href="http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]">http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]</a>	Combined-cycle electric generating unit	15.21	Natural gas	3096	MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Particulate matter, total (TPM)	Use of clean fuels	2	GRAIN S/100 SCF GAS	FOR NATURAL GAS
OKEECHOBEE CLEAN ENERGY CENTER	FLORIDA POWER & LIGHT	OKEECHOBEE	FL	3/9/2016	Fossil-fueled power plant, consisting of a 3-on-1 combined cycle unit and auxiliary equipment. The combined cycle unit consists of three GE 7HA.02 turbines, each with nominal generating capacity of 350 MW. The total generating capacity for the combined cycle unit is 1,600 MW.	Technical evaluation of project available at □ <a href="http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]">http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]</a>	Combined-cycle electric generating unit	15.21	Natural gas	3096	MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Particulate matter, total & 10 Åµ (TPM10)	Use of clean fuels	2	GR. S/100 SCF GAS	FOR NATURAL GAS
OKEECHOBEE CLEAN ENERGY CENTER	FLORIDA POWER & LIGHT	OKEECHOBEE	FL	3/9/2016	Fossil-fueled power plant, consisting of a 3-on-1 combined cycle unit and auxiliary equipment. The combined cycle unit consists of three GE 7HA.02 turbines, each with nominal generating capacity of 350 MW. The total generating capacity for the combined cycle unit is 1,600 MW.	Technical evaluation of project available at □ <a href="http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]">http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin_g_Authorization]</a>	Combined-cycle electric generating unit	15.21	Natural gas	3096	MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base-load equivalent of 500 hr/yr per turbine on ULSD.	Particulate matter, total & 2.5 Åµ (TPM2.5)	Use of clean fuels	2	GR. S/100 SCF GAS	FOR NATURAL GAS
NECHES STATION	APEX TEXAS POWER LLC	CHEROKEE	TX	3/24/2016	either 4 simple cycle combustion turbine generators (CTGs) or two CTGs operating in simple cycle or combined cycle modes. The CTGs will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE) Simple cycle operations limited to 2,500 hr/yr.	Particulate matter, total & 10 Åµ (TPM10)	GOOD COMBUSTION PRACTICES, LOW SULFUR FUEL	19.35	LB/H	
NECHES STATION	APEX TEXAS POWER LLC	CHEROKEE	TX	3/24/2016	either 4 simple cycle combustion turbine generators (CTGs) or two CTGs operating in simple cycle or combined cycle modes. The CTGs will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE) Simple cycle operations limited to 2,500 hr/yr.	Particulate matter, total & 2.5 Åµ (TPM2.5)	GOOD COMBUSTION PRACTICES AND LOW SULFUR FUEL	19.35	LB/H	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
JOHNSONVILLE COGENERATION	TENNESSEE VALLEY AUTHORITY	HUMPHREYS	TN	4/19/2016	Existing gas-fired combustion turbine with new heat recovery steam generator (HRSG) with duct burner and two new gas-fired auxiliary boilers.	Facility-wide emissions increases do not include decreases due to shutdown of coal-fired units.	Natural Gas-Fired Combustion Turbine with HRSG	15.21	Natural Gas	1339	MMBtu/hr	Turbine throughput is 1019.7 MMBtu/hr when burning natural gas and 1083.7 MMBtu/hr when burning No. 2 oil. Duct burner throughput is 319.3 MMBtu/hr. Duct burner firing will occur during natural gas combustion only.	Particulate matter, total (TPM)	Good combustion design and practices	0.005	LB/MMBTU	
GREENSVILLE POWER STATION	VIRGINIA ELECTRIC AND POWER COMPANY	GREENSVILLE	VA	6/17/2016	The proposed project will be a new, nominal 1,600 MW combined-cycle electrical power generating facility utilizing three combustion turbines each with a duct-fired heat recovery steam generator (HRSG) with a common reheat condensing steam turbine generator (3 on 1 configuration). The proposed fuel for the turbines and duct burners is pipeline-quality natural gas.		COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	15.21	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)	Pipeline Quality Natural Gas	0.0039	LB/MMBTU	AVG OF 3 TEST RUNS
GREENSVILLE POWER STATION	VIRGINIA ELECTRIC AND POWER COMPANY	GREENSVILLE	VA	6/17/2016	The proposed project will be a new, nominal 1,600 MW combined-cycle electrical power generating facility utilizing three combustion turbines each with a duct-fired heat recovery steam generator (HRSG) with a common reheat condensing steam turbine generator (3 on 1 configuration). The proposed fuel for the turbines and duct burners is pipeline-quality natural gas.		COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	15.21	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Particulate matter, total &lt; 10 Åµ (TPM10)	Low sulfur/carbon fuel and good combustion practices	0.0039	LB/MMBTU	AVG OF 3 TEST RUNS

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	15.21	natural gas	4000	h/yr		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	COMPLIANCE BY STACK TESTING	18.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	15.21	natural gas	4000	h/yr		Particulate matter, filterable (FPM)	USE OF NATURAL GAS A CLEAN BURNING FUEL	10.4	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	15.21	natural gas	4000	h/yr		Particulate matter, total &lt; 10 Åµ (TPM10)	COMPLIANCE BY STACK TESTING	18.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	15.21	Natural Gas	8040	H/YR		Particulate matter, filterable (FPM)	USE OF NATURAL GAS A CLEAN BURNING FUEL	4.4	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	15.21	Natural Gas	8040	H/YR		Particulate matter total &lt; 10 Åµ (TPM10)	USE OF NATURAL GAS A CLEAN BURNING FUEL	11.7	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL  OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	15.21	Natural Gas	8040	H/YR		Particulate matter total &lt; 2.5 Åµ (TPM2.5)	USE OF NATURAL GAS A CLEAN BURNING FUEL	11.7	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1A	15.21	Natural Gas	3625	MMBTU/hr		Particulate matter, filterable &lt; 10 Åµ (FPM10)	Good combustion practices and clean burning fuels (natural gas)	17.52	LB/H	HOURLY MAXIMUM
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1A	15.21	Natural Gas	3625	MMBTU/hr		Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)	Good combustion practices and clean burning fuels (natural gas)	17.52	LB/H	HOURLY MAXIMUM
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1B	15.21	Natural Gas	3625	MMBTU/hr		Particulate matter, filterable &lt; 10 Åµ (FPM10)	Good combustion practices and clean burning fuels (natural gas)	17.52	LB/H	HOURLY MAXIMUM
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1B	15.21	Natural Gas	3625	MMBTU/hr		Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)	Good combustion practices and clean burning fuel (natural gas)	17.52	LB/H	HOURLY MAXIMUM
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric (&amp;quot;GE&amp;quot;) 7HA.02 &amp;quot;H&amp;quot;-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-eKW diesel-fired emergency genset engines.</p> <p>- One (1) 422-hhp diesel-fired fire water pump engine.</p>		Combustion turbine and HRSG with duct burner NG only	15.21	Natural Gas	3338	MMBTu/hr	<p>Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2. □</p> <p>Each CCCT and duct burner have 5 operational scenarios: □</p> <p>1 CCCT with duct burner fired - fueled by NG only □</p> <p>2 CCCT with duct burner fired - fueled by NG blend with ethane □</p> <p>3 CCCT without duct burner fired - fueled by NG only □</p> <p>4 CCCT without duct burner fired - fueled by NG blend with ethane □</p> <p>5 CCCT without duct burner fired - fueled by ULSD (limited to emergency use only)</p>	Particulate matter, total (TPM)	Low sulfur fuel, good combustion practices	0.005	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric ("GE") 7HA.02 "H"-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-eKW diesel-fired emergency genset engines.</p>		Combustion turbine and HRSG with duct burner NG only	15.21	Natural Gas	3338	MMBtu/hr	<p>Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2.</p> <p>Each CCCT and duct burner have 5 operational scenarios:</p> <p>1 CCCT with duct burner fired - fueled by NG only</p> <p>2 CCCT with duct burner fired - fueled by NG blend with ethane</p> <p>3 CCCT without duct burner fired - fueled by NG only</p> <p>4 CCCT without duct burner fired - fueled by NG blend with ethane</p> <p>5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)</p>	Particulate matter, total < 10 µm (TPM10)	Low sulfur fuel, good combustion practices	0.005	LB/MMBTU	
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric ("GE") 7HA.02 "H"-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-eKW diesel-fired emergency genset engines.</p>		Combustion turbine and HRSG with duct burner NG only	15.21	Natural Gas	3338	MMBtu/hr	<p>Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2.</p> <p>Each CCCT and duct burner have 5 operational scenarios:</p> <p>1 CCCT with duct burner fired - fueled by NG only</p> <p>2 CCCT with duct burner fired - fueled by NG blend with ethane</p> <p>3 CCCT without duct burner fired - fueled by NG only</p> <p>4 CCCT without duct burner fired - fueled by NG blend with ethane</p> <p>5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)</p>	Particulate matter, total < 2.5 µm (TPM2.5)	Low sulfur fuel, good combustion practices	0.005	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric (&amp;quot;GE&amp;quot;;) 7HA.02 &amp;quot;H&amp;quot;-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-eKW diesel-fired emergency genset engines.</p> <p>One (1) 422 hp diesel-fired fire water pump engine.</p>		Combustion turbine and HRSG without duct burner NG only	15.21	Natural gas	0		Emission limits are for each turbine fueled by NG and operating without duct burner being fired and do not include startup/shutdown emissions.	Particulate matter, total (TPM)	Low sulfur fuels and good combustion practices	0.0068	LB/MMBTU	
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric (&amp;quot;GE&amp;quot;;) 7HA.02 &amp;quot;H&amp;quot;-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-eKW diesel-fired emergency genset engines.</p> <p>One (1) 422 hp diesel-fired fire water pump engine.</p>		Combustion turbine and HRSG without duct burner NG only	15.21	Natural gas	0		Emission limits are for each turbine fueled by NG and operating without duct burner being fired and do not include startup/shutdown emissions.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Low sulfur fuels and good combustion practices	0.0068	LB/MMBTU	

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	<p>This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.</p> <p>Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:</p> <p>A combined cycle electric generating unit consisting of two (2) General Electric ("GE") 7HA.02 "H"-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).</p> <p>- One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator.</p> <p>- One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr.</p> <p>- One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr.</p> <p>- Two (2) 1,500-ekW diesel-fired emergency genset engines.</p> <p>- One (1) 422-hp diesel-fired fire water pump engine.</p>		Combustion turbine and HRSG without duct burner NG only	15.21	Natural gas	0		Emission limits are for each turbine fueled by NG and operating without duct burner being fired and do not include startup/shutdown emissions.	Particulate matter, total < 10 Åµ (TPM10)	Low sulfur fuels and good combustion practices	0.0068	LB/MMBTU	
SOUTH FIELD ENERGY LLC	SOUTH FIELD ENERGY LLC	COLUMBIANA	OH	9/23/2016	1150 MW combined-cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the South Field Energy facility, a nominal 1,150 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in Wellsville, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3131	MMBTU/H	<p>Two identical combined cycle combustion turbine (3,131 MMBtu/hr heat input turbine at ISO conditions, natural gas firing with evaporative cooler on and 800 MMBtu/hr maximum heat input natural gas-fired duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), catalytic oxidizer, and wet injection for ULSD firing. Heat input for ULSD firing at ISO conditions, with evaporative cooler on is 3,173 MMBtu/hr. □</p> <p>Throughputs and limits are for single turbine except as noted.</p>	Particulate matter, total < 10 Åµ (TPM10)	Good combustion controls	25	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
SOUTH FIELD ENERGY LLC	SOUTH FIELD ENERGY LLC	COLUMBIANA	OH	9/23/2016	1150 MW combined-cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the South Field Energy facility, a nominal 1,150 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in Wellsville, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3131	MMBTU/H	<p>Two identical combined cycle combustion turbine (3,131 MMBtu/hr heat input turbine at ISO conditions, natural gas firing with evaporative cooler on and 800 MMBtu/hr maximum heat input natural gas-fired duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), catalytic oxidizer, and wet injection for ULSD firing. Heat input for ULSD firing at ISO conditions, with evaporative cooler on is 3,173 MMBtu/hr. □</p> <p>Throughputs and limits are for single turbine except as noted.</p>	Particulate matter, total < 2.5 Åµ (TPM2.5)	Good combustion controls	25	LB/H	NAT GAS, WITH DUCT BURNER. SEE NOTES.
HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	HOLLAND BOARD OF PUBLIC WORKS	OTTAWA	MI	12/5/2016	Natural gas combined heat and power plant.	<p>Permit Number 107-13E revised Permit 107-13C as follows: □</p> <p>1) All ppmdv limits were changed to ppmvd in the CTGHRSG section for NOx, CO and VOC. □</p> <p>Also, □</p> <p>2) The process notes for the natural gas emergency engine and the diesel fire pump emergency engine were revised as well. No other changes were made. As such, this RBLC entry includes the updated information as identified above. □</p> <p>□</p> <p>Additionally, this is an updated determination for this facility, which is still under construction and has not yet operated. The original RBLC determination for the facility is identified as MI-0412.</p>	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	15.21	Natural gas	554	MMBTU/H, each	<p>Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 &amp; EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.</p>	Particulate matter, filterable (FPM)	Good combustion practices and the use of pipeline quality natural gas.	0.007	LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	HOLLAND BOARD OF PUBLIC WORKS	OTTAWA	MI	12/5/2016	Natural gas combined heat and power plant.	<p>Permit Number 107-13E revised Permit 107-13C as follows: <input type="checkbox"/></p> <p>1) All ppmdv limits were changed to ppmvd in the CTGHRSG section for NOx, CO and VOC. <input type="checkbox"/> Also, <input type="checkbox"/></p> <p>2) The process notes for the natural gas emergency engine and the diesel fire pump emergency engine were revised as well. No other changes were made. As such, this RBLC entry includes the updated information as identified above.<input type="checkbox"/></p> <p>Additionally, this is an updated determination for this facility, which is still under construction and has not yet operated. The original RBLC determination for the facility is identified as MI-0412.</p>	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	15.21	Natural gas	554	MMBTU/H, each	Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME
HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	HOLLAND BOARD OF PUBLIC WORKS	OTTAWA	MI	12/5/2016	Natural gas combined heat and power plant.	<p>Permit Number 107-13E revised Permit 107-13C as follows: <input type="checkbox"/></p> <p>1) All ppmdv limits were changed to ppmvd in the CTGHRSG section for NOx, CO and VOC. <input type="checkbox"/> Also, <input type="checkbox"/></p> <p>2) The process notes for the natural gas emergency engine and the diesel fire pump emergency engine were revised as well. No other changes were made. As such, this RBLC entry includes the updated information as identified above.<input type="checkbox"/></p> <p>Additionally, this is an updated determination for this facility, which is still under construction and has not yet operated. The original RBLC determination for the facility is identified as MI-0412.</p>	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	15.21	Natural gas	554	MMBTU/H, each	Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and the use of pipeline quality natural gas.	0.014	LB/MMBTU	TEST PROTOCOL WILL SPECIFY AVG TIME
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	1/4/2017	Natural gas combined cycle power plant.	The permit includes equipment not entered into the RBLC due to a lack of emission limits or material limits; these include a cold cleaner, a number of space heaters, and two fuel tanks.	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	15.21	Natural gas	8322	MMBTU/H	<p>There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 &amp; EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period. <input type="checkbox"/></p> <p>The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.</p>	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	9.9	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	1/4/2017	Natural gas combined cycle power plant.	The permit includes equipment not entered into the RBLC due to a lack of emission limits or material limits; these include a cold cleaner, a number of space heaters, and two fuel tanks.	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	15.21	Natural gas	8322	MMBTU/H	There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period. The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	1/4/2017	Natural gas combined cycle power plant.	The permit includes equipment not entered into the RBLC due to a lack of emission limits or material limits; these include a cold cleaner, a number of space heaters, and two fuel tanks.	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	15.21	Natural gas	8322	MMBTU/H	There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period. The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME
HILLTOP ENERGY CENTER, LLC	HILLTOP ENERGY CENTER, LLC	GREENE	PA	4/12/2017	The project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	The project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	Combustion Turbine without Duct Burner	15.21	Natural Gas	3509	MMBTu/hr	Particulate matter, total (TPM)	0.0072	LB	MMBTU		

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
HILLTOP ENERGY CENTER, LLC	HILLTOP ENERGY CENTER, LLC	GREENE	PA	4/12/2017	the project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	the project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	Combustion Turbine without Duct Burner	15.21	Natural Gas	3509	MMBtu/hr		Particulate matter, total < 10 µ (TPM10)		0.0072	LB	MMBTU
HILLTOP ENERGY CENTER, LLC	HILLTOP ENERGY CENTER, LLC	GREENE	PA	4/12/2017	the project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	the project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST). One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst. One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler. One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater. One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine. One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine. Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators. One (1) 3,000 gallon emergency generator diesel storage tank. One (1) 500 gallon firewater pump diesel storage tank. One (1) 35,000 gallon 19% aqueous ammonia storage tank. Lubricating oil storage tanks. Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	Combustion Turbine without Duct Burner	15.21	Natural Gas	3509	MMBtu/hr		Particulate matter, total < 2.5 µ (TPM2.5)		0.0072	LB	MMBTU
GAINES COUNTY POWER PLANT	SOUTHWESTERN PUBLIC SERVICE COMPANY		TX	4/28/2017	constructed in phases, with natural gas-fired simple cycle combustion turbines (SCCTs) with dry low nitrogen oxide (NOx) burners (DLN) to be converted into 2-on-1 combined cycle combustion turbines (CCCTs) with selective catalytic reduction (SCRs), heat recovery steam generators (HRSGs, one per combustion turbine) and one steam turbine per two CCCTs. Federal control review only applies to the turbines and HRSGs.		Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	15.21	NATURAL GAS	426	MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Particulate matter, total (TPM)	Pipeline quality natural gas; good combustion practices	0		
GAINES COUNTY POWER PLANT	SOUTHWESTERN PUBLIC SERVICE COMPANY		TX	4/28/2017	constructed in phases, with natural gas-fired simple cycle combustion turbines (SCCTs) with dry low nitrogen oxide (NOx) burners (DLN) to be converted into 2-on-1 combined cycle combustion turbines (CCCTs) with selective catalytic reduction (SCRs), heat recovery steam generators (HRSGs, one per combustion turbine) and one steam turbine per two CCCTs. Federal control review only applies to the turbines and HRSGs.		Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	15.21	NATURAL GAS	426	MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Particulate matter, total < 10 µ (TPM10)	Pipeline quality natural gas; good combustion practices	0		

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
GAINES COUNTY POWER PLANT	SOUTHWESTERN PUBLIC SERVICE COMPANY		TX	4/28/2017	constructed in phases, with natural gas-fired simple cycle combustion turbines (SCCTs) with dry low nitrogen oxide (NOx) burners (DLN) to be converted into 2-on-1 combined cycle combustion turbines (CCCTs) with selective catalytic reduction (SCRs), heat recovery steam generators (HRSGs, one per combustion turbine) and one steam turbine per two CCCTs. Federal control review only applies to the turbines and HRSGs.		Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	15.21	NATURAL GAS	426	MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas; good combustion practices	0		
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/o Duct Firing	15.21	Natural Gas	2969	MMBtu/hr	Throughput is for turbine only	Particulate matter, total &lt; 10 Åµ (TPM10)	Good Combustion	0.044	LB/MMBTU	
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/o Duct Firing	15.21	Natural Gas	2969	MMBtu/hr	Throughput is for turbine only	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good Combustion	0.0044	LB/MMBTU	
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/Duct Firing	15.21	Natural Gas	2639	MMBtu/hr	Duct burner MRC is 946 MMBtu/hr	Particulate matter, total &lt; 10 Åµ (TPM10)	Good Combustion	0.005	LB/MMBTU	
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/Duct Firing	15.21	Natural Gas	2639	MMBtu/hr	Duct burner MRC is 946 MMBtu/hr	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good Combustion	0.005	LB/MMBTU	
TRUMBULL ENERGY CENTER	TRUMBULL ENERGY CENTER	TRUMBULL	OH	9/7/2017	940 MW combined cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the Trumbull Energy Center, a nominal 940 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in the Village of Lordstown, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3025	MMBTU/H	Two identical combined cycle combustion turbine (3,025 mmBtu/hr heat input turbine at ISO conditions and 237 mmBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. Throughputs and limits are for single turbine except as noted.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion controls and low sulfur fuel	15.2	LB/H	WITH DUCT BURNER. SEE NOTES.
TRUMBULL ENERGY CENTER	TRUMBULL ENERGY CENTER	TRUMBULL	OH	9/7/2017	940 MW combined cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the Trumbull Energy Center, a nominal 940 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in the Village of Lordstown, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3025	MMBTU/H	Two identical combined cycle combustion turbine (3,025 mmBtu/hr heat input turbine at ISO conditions and 237 mmBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. Throughputs and limits are for single turbine except as noted.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion controls and low sulfur fuel	15.2	LB/H	WITH DUCT BURNER. SEE NOTES.
OREGON ENERGY CENTER	OREGON ENERGY CENTER	LUCAS	OH	9/27/2017	Combined cycle gas turbine (CCGT) facility	Installation of natural gas-fired combined cycle combustion turbine power plant.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3055	MMBTU/H	Combined cycle combustion turbine (3,055 mmBtu/hr heat input turbine at ISO conditions and 221.3 mmBtu/hr heat input duct burner) with dry low NOX combustors, selective catalytic reduction (SCR), and catalytic oxidation. All heat values are on a HHV basis. □  Throughputs and limits are for single turbine except as noted.	Particulate matter, total &lt; 10 Åµ (TPM10)	good combustion practices and pipeline quality natural gas	15.4	LB/H	WITH DUCT BURNER. SEE NOTES.

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
OREGON ENERGY CENTER	OREGON ENERGY CENTER	LUCAS	OH	9/27/2017	Combined cycle gas turbine (CCGT) facility	Installation of natural gas-fired combined cycle combustion turbine power plant.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3055	MMBTU/H	Combined cycle combustion turbine (3,055 mmBtu/hr heat input turbine at ISO conditions and 221.3 mmBtu/hr heat input duct burner) with dry low NOX combustors, selective catalytic reduction (SCR), and catalytic oxidation. All heat values are on a HHV basis. □  Throughputs and limits are for single turbine except as noted.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	good combustion practices and pipeline quality natural gas	15.4	LB/H	WITH DUCT BURNER. SEE NOTES.
GUERNSEY POWER STATION LLC	GUERNSEY POWER STATION LLC	GUERNSEY	OH	10/23/2017	1,650 MW combined cycle combustion turbine electrical generating facility	Installation PTI for a new 1,650 MW combined cycle natural-gas fired turbine plant and associated auxiliary boiler, firewater pumps, emergency generators and fuel gas heaters	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	15.21	Natural gas	3516	MMBTU/H	Three identical Combustion Turbines; GE 7HA.02 natural gas-fired lean pre-mix combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,516 MMBtu/hr HHV at 100% load and -18Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 997 MMBtu/hr HHV controlled with catalytic oxidation and selective catalytic reduction (SCR) and cooled with an air-cooled condenser (ACC) used to generate electricity. Throughputs and limits are for a single turbine except as noted.	Particulate matter, total (TPM)	pipeline quality natural gas	0.0073	LB/MMBTU	SEE NOTES.
GUERNSEY POWER STATION LLC	GUERNSEY POWER STATION LLC	GUERNSEY	OH	10/23/2017	1,650 MW combined cycle combustion turbine electrical generating facility	Installation PTI for a new 1,650 MW combined cycle natural-gas fired turbine plant and associated auxiliary boiler, firewater pumps, emergency generators and fuel gas heaters	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	15.21	Natural gas	3516	MMBTU/H	Three identical Combustion Turbines; GE 7HA.02 natural gas-fired lean pre-mix combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,516 MMBtu/hr HHV at 100% load and -18Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 997 MMBtu/hr HHV controlled with catalytic oxidation and selective catalytic reduction (SCR) and cooled with an air-cooled condenser (ACC) used to generate electricity. Throughputs and limits are for a single turbine except as noted.	Particulate matter, total &lt; 10 Åµ (TPM10)	pipeline quality natural gas	0.0073	LB/MMBTU	SEE NOTES.
GUERNSEY POWER STATION LLC	GUERNSEY POWER STATION LLC	GUERNSEY	OH	10/23/2017	1,650 MW combined cycle combustion turbine electrical generating facility	Installation PTI for a new 1,650 MW combined cycle natural-gas fired turbine plant and associated auxiliary boiler, firewater pumps, emergency generators and fuel gas heaters	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	15.21	Natural gas	3516	MMBTU/H	Three identical Combustion Turbines; GE 7HA.02 natural gas-fired lean pre-mix combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,516 MMBtu/hr HHV at 100% load and -18Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 997 MMBtu/hr HHV controlled with catalytic oxidation and selective catalytic reduction (SCR) and cooled with an air-cooled condenser (ACC) used to generate electricity. Throughputs and limits are for a single turbine except as noted.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	pipeline quality natural gas	0.0073	LB/MMBTU	SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □  The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	General Electric Combustion Turbine (P004)	15.21	Natural gas	3544	MMBTU/H	General Electric model 7HA.02 natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,544 MMBtu/hr at 100% load and -5Å° F exhausting through a heat recovery steam generator (HRSG) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity. □  The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	Particulate matter, natural gas or a natural gas and filterable (FPM) ethane mixture only	0.0036	LB/MMBTU		

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	General Electric Combustion Turbine (P004)	15.21	Natural gas	3544	MMBTU/H	<p>General Electric model 7HA.02 natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,544 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 10 Åµ (TPM10)	natural gas or a natural gas and ethane mixture only	0.0036	LB/MMBTU	
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	General Electric Combustion Turbine (P004)	15.21	Natural gas	3544	MMBTU/H	<p>General Electric model 7HA.02 natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,544 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	natural gas or a natural gas and ethane mixture only	0.0036	LB/MMBTU	
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Mitsubishi Combustion Turbine (P005)	15.21	Natural gas	3320	MMBTU/H	<p>Mitsubishi Model 501JAC natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,320 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 108 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, filterable (FPM)	natural gas or a natural gas and ethane mixture only	0.004	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Mitsubishi Combustion Turbine (P005)	15.21	Natural gas	3320	MMBTU/H	<p>Mitsubishi Model 501JAC natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,320 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 108 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity.□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 10 Åµ (TPM10)	natural gas or a natural gas and ethane mixture only	0.004	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Mitsubishi Combustion Turbine (P005)	15.21	Natural gas	3320	MMBTU/H	<p>Mitsubishi Model 501JAC natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,320 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 108 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	natural gas or a natural gas and ethane mixture only	0.004	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Siemens Combustion Turbine (P006)	15.21	Natural gas	3602	MMBTU/H	<p>Siemens Model SCC6-8000H natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,602 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 667 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, filterable (FPM)	natural gas or a natural gas and ethane mixture only	0.0057	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Siemens Combustion Turbine (P006)	15.21	Natural gas	3602	MMBTU/H	<p>Siemens Model SCC6-8000H natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,602 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 667 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 10 Åµ (TPM10)	natural gas or a natural gas and ethane mixture only	0.0057	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Siemens Combustion Turbine (P006)	15.21	Natural gas	3602	MMBTU/H	<p>Siemens Model SCC6-8000H natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,602 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 667 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	natural gas or a natural gas and ethane mixture only	0.0057	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
FILER CITY STATION	FILER CITY STATION LIMITED PARTNERSHIP	MANISTEE	MI	11/17/2017	New natural gas combined heat and power plant proposed at existing cogenerating power plant permitted to burn wood, coal and tire derived fuel.		EUCCT (Combined cycle CTG with unfired HRSG)	15.21	Natural gas	1934.7	MMBTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	Particulate matter, filterable (FPM)	Good combustion practices and the use of pipeline quality natural gas, combustion inlet air filter.	0.0025	LB/MMBTU	
FILER CITY STATION	FILER CITY STATION LIMITED PARTNERSHIP	MANISTEE	MI	11/17/2017	New natural gas combined heat and power plant proposed at existing cogenerating power plant permitted to burn wood, coal and tire derived fuel.		EUCCT (Combined cycle CTG with unfired HRSG)	15.21	Natural gas	1934.7	MMBTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and the use of pipeline quality natural gas, combustion inlet air filter.	0.0066	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
FILER CITY STATION	FILER CITY STATION LIMITED PARTNERSHIP	MANISTEE	MI	11/17/2017	New natural gas combined heat and power plant proposed at existing cogenerating power plant permitted to burn wood, coal and tire derived fuel.		EUCCT (Combined cycle CTG with unfired HRSG)	15.21	Natural gas	1934.7	MMBTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and the use of pipeline quality natural gas, combustion inlet air filter.	0.0066	LB/MMBTU	
DANIA BEACH ENERGY CENTER	FLORIDA POWER AND LIGHT COMPANY	BROWARD	FL	12/4/2017	1200 megawatt 2-on-1 combined cycle facility, natural gas-fired, with limited ULSD use. GE 7HA turbines	Technical evaluation available at <a href="https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP">https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP</a>	2-on-1 combined cycle unit (GE 7HA)	15.21	Natural gas	4000	MMBTu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Particulate matter, filterable (FPM)	Clean fuels	0		
DANIA BEACH ENERGY CENTER	FLORIDA POWER AND LIGHT COMPANY	BROWARD	FL	12/4/2017	1200 megawatt 2-on-1 combined cycle facility, natural gas-fired, with limited ULSD use. GE 7HA turbines	Technical evaluation available at <a href="https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP">https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP</a>	2-on-1 combined cycle unit (GE 7HA)	15.21	Natural gas	4000	MMBTu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Particulate matter, total &lt; 10 Åµ (TPM10)	Clean fuels	0		
DANIA BEACH ENERGY CENTER	FLORIDA POWER AND LIGHT COMPANY	BROWARD	FL	12/4/2017	1200 megawatt 2-on-1 combined cycle facility, natural gas-fired, with limited ULSD use. GE 7HA turbines	Technical evaluation available at <a href="https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP">https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP</a>	2-on-1 combined cycle unit (GE 7HA)	15.21	Natural gas	4000	MMBTu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Clean fuels	0		
TVA - JOHNSONVILLE COGENERATION	TENNESSEE VALLEY AUTHORITY	HUMPHREYS	TN	2/1/2018	Combustion turbines and combined cycle plant	Permit 972969 adds startup and shutdown limits to the requirements established in PSD permit 970816F.	Dual-fuel CT and HRSG with duct burner	15.21	Natural Gas	1020	MMBTu/hr	Rated input capacity is 1020 MMBtu/hr (CT) and 319 MMBtu/hr (duct burner) when burning natural gas and 1084 MMBtu/hr when burning #2 oil.	Particulate matter, filterable (FPM)	Good combustion design & practice	0.005	LB/MMBTU	WHEN BURNING NATURAL GAS
HARRISON COUNTY POWER PLANT	ESC HARRISON COUNTY POWER, LLC	HARRISON	WV	3/27/2018	Nominal 640 mWe natural gas-fired combined-cycle power plant. Small sources: Emergency Generator, Fire Water Pump, Fuel Gas Heater not included in RBLC - may request info or see permit for details.		GE 7HA.02 Turbine	15.21	Natural Gas	3496.2	mmBtu/hr	Nominal 640 mWe All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation Short Term startup and shutdown limits in lb/event given in permit.	Particulate matter, total (TPM)	Air Filter, Use of Natural Gas, Good Combustion Practices	18.2	LB/HR	

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MONTGOMERY COUNTY POWER STATIOIN	ENTERGY TEXAS INC	MONTGOMERY	TX	3/30/2018			Combined Cycle Turbine	15.21	NATURAL GAS	2635	MMBTU/HR/U NIT	Two Mitsubishi M501GAC turbines (without fast start)	Particulate matter, total (TPM)	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7	TON/YR	
MONTGOMERY COUNTY POWER STATIOIN	ENTERGY TEXAS INC	MONTGOMERY	TX	3/30/2018			Combined Cycle Turbine	15.21	NATURAL GAS	2635	MMBTU/HR/U NIT	Two Mitsubishi M501GAC turbines (without fast start)	Particulate matter, total &lt; 10 Åµ (TPM10)	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7	TON/YR	
MONTGOMERY COUNTY POWER STATIOIN	ENTERGY TEXAS INC	MONTGOMERY	TX	3/30/2018			Combined Cycle Turbine	15.21	NATURAL GAS	2635	MMBTU/HR/U NIT	Two Mitsubishi M501GAC turbines (without fast start)	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	PIPELINE NATURAL GAS, GOOD COMBUSTION	125.7	TON/YR	
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	General Electric (GE) Combustion Turbines (P005 &P006)	15.21	Natural gas	3459.6	MMBTU/H	Two identical GE Combustion Turbines 1 and 2; GE model 7HA.02 natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,459.6 MMBtu/hr (HHV) at 100% load and -2Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 570.45 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and pipeline quality natural gas	0.0052	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	General Electric (GE) Combustion Turbines (P005 &P006)	15.21	Natural gas	3459.6	MMBTU/H	Two identical GE Combustion Turbines 1 and 2; GE model 7HA.02 natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,459.6 MMBtu/hr (HHV) at 100% load and -2Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 570.45 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and pipeline quality natural gas	0.0052	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	General Electric (GE) Combustion Turbines (P005 & P006)	15.21	Natural gas	3459.6	MMBTU/H	Two identical GE Combustion Turbines 1 and 2; GE model 7HA.02 natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,459.6 MMBtu/hr (HHV) at 100% load and -2Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 570.45 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total (TPM)	Good combustion practices and pipeline quality natural gas	0.0052	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	15.21	Natural gas	3231	MMBTU/H	Two identical MHPS Combustion Turbines 1 and 2; Mitsubishi Model M501JAC natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,231 MMBtu/hr (HHV) at 100% load and 51Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 306 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total (TPM)	Good combustion practices and pipeline quality natural gas	0.005	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	15.21	Natural gas	3231	MMBTU/H	Two identical MHPS Combustion Turbines 1 and 2; Mitsubishi Model M501JAC natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,231 MMBtu/hr (HHV) at 100% load and 51Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 306 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and pipeline quality natural gas	0.005	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	15.21	Natural gas	3231	MMBTU/H	Two identical MHPS Combustion Turbines 1 and 2; Mitsubishi Model M501JAC natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,231 MMBtu/hr (HHV) at 100% load and 51Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 306 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □  Limits and throughputs are for single turbine except as noted.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and pipeline quality natural gas	0.005	LB/MMBTU	WITH DUCT BURNER. SEE NOTES.
PALMDALE ENERGY PROJECT	PALMDALE ENERGY, LLC	LOS ANGELES	CA	4/25/2018	645 MW (nominal) Natural Gas-fired Combined Cycle Power Plant, 2 x 1 configuration, auxiliary boiler for faster startup	See also docket: <a href="https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473">https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473</a> . □  Permit decision was appealed to EPA's Environmental Appeals Board. Board denied review on October 23, 2018. Information available through <a href="http://www.epa.gov/eab">www.epa.gov/eab</a> and <a href="https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument">https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument</a> . □  1/31/20 -- SYS MGR -- Link to permit is □ < <a href="https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028">https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028</a> >	Combustion Turbines (GEN1 and GEN2)	15.21	Natural Gas	2217	MMBTU/H	Each combustion turbine rated at 214 MW, with a □ maximum heat input rate of 2,217 MMBtu/H (HHV, at ISO □ conditions); natural gas-fired Siemens SGT6-5000F; each vents to □ dedicated Heat Recovery Steam Generator and a shared 276 □ MW Steam Turbine Generator; 160-ft □ stack height; 22-ft stack diameter	Particulate matter, filterable (FPM)	Clean fuel and good combustion practices	0.0048	LB/MMBTU	TEST AVERAGE
PALMDALE ENERGY PROJECT	PALMDALE ENERGY, LLC	LOS ANGELES	CA	4/25/2018	645 MW (nominal) Natural Gas-fired Combined Cycle Power Plant, 2 x 1 configuration, auxiliary boiler for faster startup	See also docket: <a href="https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473">https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473</a> . □  Permit decision was appealed to EPA's Environmental Appeals Board. Board denied review on October 23, 2018. Information available through <a href="http://www.epa.gov/eab">www.epa.gov/eab</a> and <a href="https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument">https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument</a> . □  1/31/20 -- SYS MGR -- Link to permit is □ < <a href="https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028">https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028</a> >	Combustion Turbines (GEN1 and GEN2)	15.21	Natural Gas	2217	MMBTU/H	Each combustion turbine rated at 214 MW, with a □ maximum heat input rate of 2,217 MMBtu/H (HHV, at ISO □ conditions); natural gas-fired Siemens SGT6-5000F; each vents to □ dedicated Heat Recovery Steam Generator and a shared 276 □ MW Steam Turbine Generator; 160-ft □ stack height; 22-ft stack diameter	Particulate matter, total &lt; 2.5 Åµ (TPM10)	Clean fuel and good combustion practices	0.0048	LB/MMBTU	TEST AVERAGE
PALMDALE ENERGY PROJECT	PALMDALE ENERGY, LLC	LOS ANGELES	CA	4/25/2018	645 MW (nominal) Natural Gas-fired Combined Cycle Power Plant, 2 x 1 configuration, auxiliary boiler for faster startup	See also docket: <a href="https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473">https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473</a> . □  Permit decision was appealed to EPA's Environmental Appeals Board. Board denied review on October 23, 2018. Information available through <a href="http://www.epa.gov/eab">www.epa.gov/eab</a> and <a href="https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument">https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument</a> . □  1/31/20 -- SYS MGR -- Link to permit is □ < <a href="https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028">https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028</a> >	Combustion Turbines (GEN1 and GEN2)	15.21	Natural Gas	2217	MMBTU/H	Each combustion turbine rated at 214 MW, with a □ maximum heat input rate of 2,217 MMBtu/H (HHV, at ISO □ conditions); natural gas-fired Siemens SGT6-5000F; each vents to □ dedicated Heat Recovery Steam Generator and a shared 276 □ MW Steam Turbine Generator; 160-ft □ stack height; 22-ft stack diameter	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Clean fuel and good combustion practices	0.0048	LB/MMBTU	TEST AVERAGE
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: □ Option 1 - GE 7HA.02 □ Option 2 - Siemens SGT6-8000H □ Facility Wide Pollutants for Siemens: □ CO: 293.5 □ NOx: 295.8 □ PM: 253.8 □ SOx: 39.3 □ VOC: 113.7	GE Combustion Turbine - Option 1 - Normal Operation	15.21	natural gas	34000	MMCF/YR	Option 1: □ Two on one configuration: 3,482 MMBtu/hr combustion turbine with 475 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.	Particulate matter, total &lt; 10 Åµ (TPM10)	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0069	LB/MMBTU WITHOUT DUC	AV OF 3 TEST RUNS

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: ☐ Option 1 - GE 7HA.02☐ Option 2 - Siemens SGT6-8000H☐ Facility Wide Pollutants for Siemens: ☐ CO: 293.5☐ NOx: 295.8☐ PM: 253.8☐ SOx: 39.3☐ VOC: 113.7	GE Combustion Turbine - Option 1 - Normal Operation	15.21	natural gas	34000	MMCF/YR	Option 1: ☐ Two on one configuration: 3,482 MMBtu/hr combustion turbine with 475 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0069	LB/MMBTU WITHOUT DUC	AV OF 3 TEST RUNS
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: ☐ Option 1 - GE 7HA.02☐ Option 2 - Siemens SGT6-8000H☐ Facility Wide Pollutants for Siemens: ☐ CO: 293.5☐ NOx: 295.8☐ PM: 253.8☐ SOx: 39.3☐ VOC: 113.7	Siemens Combusion Turbine - Option 2 - Normal Operation	15.21	Natural Gas	35000	MMCF/YR	Option 2: ☐ Two on one configuration: 3,116 MMBtu/hr combustion turbine with 991 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.	Particulate matter, total &lt; 10 Åµ (TPM10)	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12 mo rolling av.	0.0065	LB/MMBTU	AV OF 3 TEST RUNS/WITHOUT DUCT BURNING
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: ☐ Option 1 - GE 7HA.02☐ Option 2 - Siemens SGT6-8000H☐ Facility Wide Pollutants for Siemens: ☐ CO: 293.5☐ NOx: 295.8☐ PM: 253.8☐ SOx: 39.3☐ VOC: 113.7	Siemens Combusion Turbine - Option 2 - Normal Operation	15.21	Natural Gas	35000	MMCF/YR	Option 2: ☐ Two on one configuration: 3,116 MMBtu/hr combustion turbine with 991 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	good combustion practices and the use of pipeline quality natural gas with a maximum sulfur content of 0.4 gr/100 scf on a 12-month rolling average.	0.0065	LB/MMBTU	AV OF 3 TEST RUNS/WITHOUT DUCT BURNING
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.8	LB/H	HOURLY

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).  A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.8	LB/H	HOURLY
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).  A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (North Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	Nominal 500 MW electricity production. Turbine rating of 3,080 MMBTU/hr (HHV) and HRSG duct burner rating of 755 MMBTU/hr (HHV).  A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/hr (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
BELLE RIVER COMBINED CYCLE POWER PLANT	DTE ELECTRIC COMPANY	ST. CLAIR	MI	7/16/2018	Natural gas combined-cycle power plant	The new combined cycle plant is proposed to be located near DTE's existing Belle River and St. Clair coal fired power plants. The three plants will be considered a single stationary source. It will have a capacity of 1,150 megawatts.	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	15.21	Natural gas	0		Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG).  Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H.  The HRSGs are not capable of operating independently from the CTGs.	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT
BELLE RIVER COMBINED CYCLE POWER PLANT	DTE ELECTRIC COMPANY	ST. CLAIR	MI	7/16/2018	Natural gas combined-cycle power plant	The new combined cycle plant is proposed to be located near DTE's existing Belle River and St. Clair coal fired power plants. The three plants will be considered a single stationary source. It will have a capacity of 1,150 megawatts.	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	15.21	Natural gas	0		Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG).  Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H.  The HRSGs are not capable of operating independently from the CTGs.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
BELLE RIVER COMBINED CYCLE POWER PLANT	DTE ELECTRIC COMPANY	ST. CLAIR	MI	7/16/2018	Natural gas combined-cycle power plant	The new combined cycle plant is proposed to be located near DTE's existing Belle River and St. Clair coal fired power plants. The three plants will be considered a single stationary source. It will have a capacity of 1,150 megawatts.	FGCTGHRSG (EUCTGHRSG1 & EUCTGHRSG2)	15.21	Natural gas	0		Two (2) combined-cycle natural gas-fired combustion turbine generators, each with a heat recovery steam generator (CTGHRSG). Plant nominal 1,150 MW electricity production. Turbines are each rated at 3,658 MMBTU/H and HRSG duct burners are each rated at 800 MMBTU/H. The HRSGs are not capable of operating independently from the CTGs.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	16	LB/H	HOURLY; EACH UNIT
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	7/27/2018	A 573-megawatt (MW) (winter) 1-on-1 combined cycle plant which includes a heat recovery steam generator with duct firing, along with supporting equipment. Natural gas is the only permitted fuel for the combined cycle unit.	THIS PROJECT WAS SUPERSEDED BY PERMIT NO. 1010524-003-AC UNDER RBLC ID FL-0371	1-on-1 combined cycle unit (GE 7HA)	15.21	Natural Gas	3266.9	MMBTu/hour	One nominal 385 MW GE 7HA.02 CTG and one HRSG with duct firing [approximately 210 MMBtu/hour], and one nominal 210 MW steam turbine generator (STG)	Particulate matter, filterable (FPM)	Clean fuels	0		
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	7/27/2018	A 573-megawatt (MW) (winter) 1-on-1 combined cycle plant which includes a heat recovery steam generator with duct firing, along with supporting equipment. Natural gas is the only permitted fuel for the combined cycle unit.	THIS PROJECT WAS SUPERSEDED BY PERMIT NO. 1010524-003-AC UNDER RBLC ID FL-0371	1-on-1 combined cycle unit (GE 7HA)	15.21	Natural Gas	3266.9	MMBTu/hour	One nominal 385 MW GE 7HA.02 CTG and one HRSG with duct firing [approximately 210 MMBtu/hour], and one nominal 210 MW steam turbine generator (STG)	Particulate matter, total &lt; 10 Åµ (TPM10)	Clean fuels	0		
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	7/27/2018	A 573-megawatt (MW) (winter) 1-on-1 combined cycle plant which includes a heat recovery steam generator with duct firing, along with supporting equipment. Natural gas is the only permitted fuel for the combined cycle unit.	THIS PROJECT WAS SUPERSEDED BY PERMIT NO. 1010524-003-AC UNDER RBLC ID FL-0371	1-on-1 combined cycle unit (GE 7HA)	15.21	Natural Gas	3266.9	MMBTu/hour	One nominal 385 MW GE 7HA.02 CTG and one HRSG with duct firing [approximately 210 MMBtu/hour], and one nominal 210 MW steam turbine generator (STG)	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Clean fuels	0		
CPV THREE RIVERS ENERGY CENTER	CPV THREE RIVERS, LLC	GRUNDY	IL	7/30/2018	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, each with a combustion turbine and associated heat recovery steam generator (HRSG). The turbines would burn natural gas and ultra-low sulfur diesel (ULSD) as a backup fuel. Other units include an auxiliary boiler, fuel heater, engines, natural gas piping and components, circuit breakers and roadways.		Combined Cycle Combustion Turbines	15.21	Natural Gas	3474	mmBtu/hr	Throughput of ultra-low sulfur diesel (ULSD) is 3798 mmBtu/hr. Combined cycle combustion turbines w/ heat recovery steam generator (HRSG). Turbine inlets will have inlet evaporative cooling systems to cool inlet air during warm weather to increase power output.	Particulate matter, filterable (FPM)	Good combustion practices	0.0037	LB/MMBTU	3-HOUR BLOCK AVERAGE
CPV THREE RIVERS ENERGY CENTER	CPV THREE RIVERS, LLC	GRUNDY	IL	7/30/2018	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, each with a combustion turbine and associated heat recovery steam generator (HRSG). The turbines would burn natural gas and ultra-low sulfur diesel (ULSD) as a backup fuel. Other units include an auxiliary boiler, fuel heater, engines, natural gas piping and components, circuit breakers and roadways.		Combined Cycle Combustion Turbines	15.21	Natural Gas	3474	mmBtu/hr	Throughput of ultra-low sulfur diesel (ULSD) is 3798 mmBtu/hr. Combined cycle combustion turbines w/ heat recovery steam generator (HRSG). Turbine inlets will have inlet evaporative cooling systems to cool inlet air during warm weather to increase power output.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practice	0.0069	LB/MMBTU	3-HOUR BLOCK AVERAGE

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
NEW COVERT GENERATING FACILITY	NEW COVERT GENERATING COMPANY, LLC	VAN BUREN	MI	7/30/2018	Power plant	The equipment consists of three advanced firing temperature Mitsubishi 501G combustion turbines, three heat recovery steam generators supplemented with gas-fired duct burners each with a max firing rate of 256 million British thermal units per hour (MMBtu/hr), three steam turbine generators. Auxiliary equipment includes three mechanical draft evaporative cooling towers, one natural gas auxiliary boiler, one diesel emergency generator, one diesel fire water pump, one aqueous parts cleaner, and one gas heater.	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	15.21	Natural gas	1230	MW	Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	Particulate matter, total &lt; 10 Åµ (TPM10)	Use clean fuel (natural gas) and good combustion practices.	10.7	LB/H	HOURLY; EACH CT/HRSG TRAIN
NEW COVERT GENERATING FACILITY	NEW COVERT GENERATING COMPANY, LLC	VAN BUREN	MI	7/30/2018	Power plant	The equipment consists of three advanced firing temperature Mitsubishi 501G combustion turbines, three heat recovery steam generators supplemented with gas-fired duct burners each with a max firing rate of 256 million British thermal units per hour (MMBtu/hr), three steam turbine generators. Auxiliary equipment includes three mechanical draft evaporative cooling towers, one natural gas auxiliary boiler, one diesel emergency generator, one diesel fire water pump, one aqueous parts cleaner, and one gas heater.	FG-TURB/DB1-3 (3 combined cycle combustion turbine and heat recovery steam generator trains)	15.21	Natural gas	1230	MW	Three (3) combined-cycle combustion turbine (CT) / heat recovery steam generator (HRSG) trains. Each CT is a natural gas fired Mitsubishi model 501G, equipped with dry low NOx combustor and inlet air evaporative cooling. Each HRSG includes a natural gas fired duct burner with a 256 MMBtu/hr heat input capacity and a dry low NOx burner.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Use clean fuel (natural gas) and good combustion practices.	10.7	LB/H	HOURLY; EACH CT/HRSG TRAIN
RENAISSANCE ENERGY CENTER	APV RENAISSANCE PARTNERS	GREENE	PA	8/27/2018	This Plan Approval is to allow the construction and temporary operation of a natural gas-fired combined cycle power plant to be located in Monongahela Township, Greene County. with  Two (2) Siemens, SGT6-8000H (or equivalent), natural gas-fired combustion turbines 3,580 MMBtu/hr heat input rating (LHV) each (controlled with low NOx burners), including natural gas-fired duct burners, 914.1 MMBtu/hr heat input rating each; controlled by Ultra-low NOx combustors, SCR, and oxidation catalysts; 1,127 MW total net generating capacity. One (1) natural gas-fired auxiliary boiler, 90 MMBtu/hr heat input rating. One (1) Cummins model #CFP15E-F20 (or equivalent), diesel-fired fire pump engine, 411 bhp rating; including One (1) diesel fuel storage tank, 2,175 gallons One (1) Caterpillar 3516 (or equivalent), diesel-fired emergency generator engine rated at 2000 kW. Miscellaneous components in natural gas service, and circuit breakers; controlled by leak detection and repair (â€œLDARâ€œ) One (1) aqueous ammonia (19%) storage vessel rated at 19,000 gallons (or as determined during final design).		COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	15.21	Natural Gas	2665.9	MMBtu/hr		Particulate matter, total (TPM)		0.0043	LB/MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
RENAISSANCE ENERGY CENTER	APV RENAISSANCE PARTNERS	GREENE	PA	8/27/2018	<p>This Plan Approval is to allow the construction and temporary operation of a natural gas-fired combined cycle power plant to be located in Monongahela Township, Greene County. with</p> <p>Two (2) Siemens, SGT6-8000H (or equivalent), natural gas-fired combustion turbines 3,580 MMBtu/hr heat input rating (LHV) each (controlled with low NOx burners), including natural gas-fired duct burners, 914.1 MMBtu/hr heat input rating each; controlled by Ultra-low NOx combustors, SCR, and oxidation catalysts; 1,127 MW total net generating capacity.</p> <p>One (1) natural gas-fired auxiliary boiler, 90 MMBtu/hr heat input rating.</p> <p>One (1) Cummins model #CFP15E-F20 (or equivalent), diesel-fired fire pump engine, 411 bhp rating; including One (1) diesel fuel storage tank, 2,175 gallons</p> <p>One (1) Caterpillar 3516 (or equivalent), diesel-fired emergency generator engine rated at 2000 kW.</p> <p>Miscellaneous components in natural gas service, and circuit breakers; controlled by leak detection and repair (â€œLDARâ€œ)</p> <p>One (1) aqueous ammonia (19%) storage vessel rated at 19,000 gallons (or as determined during final design).</p>		COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	15.21	Natural Gas	2665.9	MMBtu/hr		Particulate matter, total &lt; 10 Åµ (TPM10)		0.0043	LB/MMBTU	HR
RENAISSANCE ENERGY CENTER	APV RENAISSANCE PARTNERS	GREENE	PA	8/27/2018	<p>This Plan Approval is to allow the construction and temporary operation of a natural gas-fired combined cycle power plant to be located in Monongahela Township, Greene County. with</p> <p>Two (2) Siemens, SGT6-8000H (or equivalent), natural gas-fired combustion turbines 3,580 MMBtu/hr heat input rating (LHV) each (controlled with low NOx burners), including natural gas-fired duct burners, 914.1 MMBtu/hr heat input rating each; controlled by Ultra-low NOx combustors, SCR, and oxidation catalysts; 1,127 MW total net generating capacity.</p> <p>One (1) natural gas-fired auxiliary boiler, 90 MMBtu/hr heat input rating.</p> <p>One (1) Cummins model #CFP15E-F20 (or equivalent), diesel-fired fire pump engine, 411 bhp rating; including One (1) diesel fuel storage tank, 2,175 gallons</p> <p>One (1) Caterpillar 3516 (or equivalent), diesel-fired emergency generator engine rated at 2000 kW.</p> <p>Miscellaneous components in natural gas service, and circuit breakers; controlled by leak detection and repair (â€œLDARâ€œ)</p> <p>One (1) aqueous ammonia (19%) storage vessel rated at 19,000 gallons (or as determined during final design).</p>		COMBUSTION TURBINE UNIT w/o DUCT BURNERS UNIT	15.21	Natural Gas	2665.9	MMBtu/hr		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		0.0043	LB/MMBTU	HR
BROOKE COUNTY POWER PLANT	ESC BROOKE COUNTY POWER I, LLC	BROOKE	WV	9/18/2018	Nominal 925 mWe natural gas-fired combined-cycle power plant. Small sources: Emergency Generator, Fire Water Pump, Fuel Gas Heater not included in RBLC - may request info or see permit for details.		GE 7HA.01 Turbine	15.21	Natural Gas/Ethane	2737.7	mmBtu/hr	Facility has 2 identical units, only 1 entry in RBLC. Nominal 462.5 mWe. All emission limits steady-state and include 424 mmBtu/hr Duct Burner in operation. Short Term startup and shutdown limits in lb/event given in permit.	Particulate matter, total (TPM)	Air Filter, Use of Natural Gas, Good Combustion Practices	16.9	LB/HR	
CALCASIEU PASS LNG PROJECT	VENTURE GLOBAL CALCASIEU PASS, LLC	CAMERON	LA	9/21/2018	New Liquefied Natural Gas (LNG) production, storage, and export terminal.	Application Received September 2, 2015.	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	15.21	Natural Gas	921	MM BTU/h		Particulate matter, total &lt; 10 Åµ (TPM10)	Exclusive Combustion of Fuel Gas and Good Combustion Practices.	9.53	LB/H	3 HOUR AVERAGE
CALCASIEU PASS LNG PROJECT	VENTURE GLOBAL CALCASIEU PASS, LLC	CAMERON	LA	9/21/2018	New Liquefied Natural Gas (LNG) production, storage, and export terminal.	Application Received September 2, 2015.	Combined Cycle Combustion Turbines (CCCT1 to CCCT5)	15.21	Natural Gas	921	MM BTU/h		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Exclusive Combustion of Fuel Gas and Good Combustion Practices.	9.53	LB/H	3 HOUR AVERAGE

Appendix D - RBLC Search Results  
Oglethorpe Power Corporation

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines ( Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/21/2018	Natural gas combined-cycle power plant.	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2 is a nominally rated 667 MMBTU/H natural gas fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas fired duct burner rated at 204 MMBTU/h to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/21/2018	Natural gas combined-cycle power plant.	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2--A 667 MMBTU/H natural gas fired CTG with a HRSG.	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2 is a nominally rated 667 MMBTU/H natural gas fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas fired duct burner rated at 204 MMBTU/h to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/21/2018	Natural gas combined-cycle power plant.	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	15.21	Natural gas	667	MMBTU/H	A nominally rated 667 MMBTU/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR) and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/21/2018	Natural gas combined-cycle power plant.	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1--A 667 MMBTU/H NG fired combustion turbine generator coupled with a heat recovery steam generator (HRSG)	15.21	Natural gas	667	MMBTU/H	A nominally rated 667 MMBTU/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR) and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning and good combustion practices.	6.02	LB/H	HOURLY
JACKSON ENERGY CENTER	JACKSON GENERATION, LLC	WILL	IL	12/31/2018	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, each with a combustion turbine and associated heat recovery steam generator (HRSG). The turbines would only burn natural gas. Other units include an auxiliary boiler, fuel heater, emergency engines, natural gas piping and components, circuit breakers and roadways	Additional pollutants: Sulfuric Acid Mist: 48 tons/year; GHG as CO2e: 4,752,085 tons/year	Combined-Cycle Combustion Turbine	15.21	Natural Gas	3864	mmBtu/hr	Combined-cycle combustion turbines with heat recovery steam generator (HRSG). Turbines will have inlet evaporative cooling systems to cool inlet air during warm weather to increase power output.	Particulate matter, total (TPM)	Good combustion practices	0.0026	LB/MMBTU	3-HR BLOCK AVERAGE
JACKSON GENERATING STATION	CONSUMERS ENERGY COMPANY	JACKSON	MI	4/2/2019	Natural gas combined-cycle power plant		FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	15.21	natural gas	420	MW	FGLMDB1-6 is 6 combined cycle natural gas fired combustion turbine generators (CTG) each equipped with a heat recovery steam generator (HRSG). Nominal rating 420 MW. Each combustion turbine (CT) is a GE LM6000 with a rating of 440 MMBTU/HR (HHV) and a duct burner rating of 222 MMBTU/HR (HHV). A combined cycle natural gas fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 420 MW electricity production. The HRSG is not capable of operating independently from the CTG.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Combustion inlet air filters, good combustion practices and only combust natural gas.	4.9	LB/HR	24 HR AVG DET.EACH OPERATING HR; EACH
JACKSON GENERATING STATION	CONSUMERS ENERGY COMPANY	JACKSON	MI	4/2/2019	Natural gas combined-cycle power plant		FGLMDB1-6 (6 combined cycle natural gas fired CTG each equipped with a HRSG)	15.21	natural gas	420	MW	FGLMDB1-6 is 6 combined cycle natural gas fired combustion turbine generators (CTG) each equipped with a heat recovery steam generator (HRSG). Nominal rating 420 MW. Each combustion turbine (CT) is a GE LM6000 with a rating of 440 MMBTU/HR (HHV) and a duct burner rating of 222 MMBTU/HR (HHV). A combined cycle natural gas fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 420 MW electricity production. The HRSG is not capable of operating independently from the CTG.	Particulate matter, total &lt; 10 Åµ (TPM10)	Combustion inlet air filters, good combustion practices and only combust natural gas.	4.9	LB/H	24-HR AVG, EACH HR UNIT OPERATES, EACH

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
CHICKAHOMINY POWER LLC	CHICKAHOMINY POWER LLC	CHARLES CITY	VA	6/24/2019	Natural gas-fired combined cycle power plant, three 1 x1 configuration, 310 MW each, no duct firing, air cooled with two 84 MMBtu/H natural gas-fired auxiliary boilers, three fuel gas heaters, an emergency generator, fire water pump, and circuit breakers.	<p>The proposed project will be a new combined-cycle electrical power generating facility utilizing three power blocks consisting of a combustion turbine with a heat recovery steam generator (HRSG) and a reheat condensing steam turbine generator (three 1 x 1 configuration). The turbine model proposed is a MHPS M501JAC turbine. The project will have a nominal net generating capacity of 1,650 MW. The proposed fuel for the turbines is pipeline-quality natural gas. Emissions from the turbines will be controlled by the use of low carbon fuels and high efficiency design (for GHG), clean fuels and GCPs (for PM, PM10 and PM2.5), SCR and dry low NOx burners (for NOx), and oxidation catalyst (for CO and VOC). Other equipment at the site, including two natural gas-fired auxiliary boilers, three fuel gas heaters, a diesel-fired emergency fire water pump, and a diesel-fired emergency generator, are also proposed and will be subject to emission controls. Natural gas piping components and electrical circuit breakers potentially emit GHG pollutants (expressed as carbon dioxide equivalents, or CO2e) and they will also be covered in the permit.□</p> <p>This facility is not proposing duct firing in the HRSGs and is proposing air-cooled turbines that will not require cooling towers.</p>	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	15.21	natural gas	35000	MMCF/YR	One on one configuration: 4,066 MMBtu/H combustion turbine. Emission limits reflect the operation of each of the three turbines.	Particulate matter, filterable (FPM)	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052	LB/MMBTU	AVG. OF 3 TEST RUNS
CHICKAHOMINY POWER LLC	CHICKAHOMINY POWER LLC	CHARLES CITY	VA	6/24/2019	Natural gas-fired combined cycle power plant, three 1 x1 configuration, 310 MW each, no duct firing, air cooled with two 84 MMBtu/H natural gas-fired auxiliary boilers, three fuel gas heaters, an emergency generator, fire water pump, and circuit breakers.	<p>The proposed project will be a new combined-cycle electrical power generating facility utilizing three power blocks consisting of a combustion turbine with a heat recovery steam generator (HRSG) and a reheat condensing steam turbine generator (three 1 x 1 configuration). The turbine model proposed is a MHPS M501JAC turbine. The project will have a nominal net generating capacity of 1,650 MW. The proposed fuel for the turbines is pipeline-quality natural gas. Emissions from the turbines will be controlled by the use of low carbon fuels and high efficiency design (for GHG), clean fuels and GCPs (for PM, PM10 and PM2.5), SCR and dry low NOx burners (for NOx), and oxidation catalyst (for CO and VOC). Other equipment at the site, including two natural gas-fired auxiliary boilers, three fuel gas heaters, a diesel-fired emergency fire water pump, and a diesel-fired emergency generator, are also proposed and will be subject to emission controls. Natural gas piping components and electrical circuit breakers potentially emit GHG pollutants (expressed as carbon dioxide equivalents, or CO2e) and they will also be covered in the permit.□</p> <p>This facility is not proposing duct firing in the HRSGs and is proposing air-cooled turbines that will not require cooling towers.</p>	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	15.21	natural gas	35000	MMCF/YR	One on one configuration: 4,066 MMBtu/H combustion turbine. Emission limits reflect the operation of each of the three turbines.	Particulate matter, total &lt; 10 Åµ (TPM10)	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052	LB/MMBTU	AVG OF 3 TEST RUNS
CHICKAHOMINY POWER LLC	CHICKAHOMINY POWER LLC	CHARLES CITY	VA	6/24/2019	Natural gas-fired combined cycle power plant, three 1 x1 configuration, 310 MW each, no duct firing, air cooled with two 84 MMBtu/H natural gas-fired auxiliary boilers, three fuel gas heaters, an emergency generator, fire water pump, and circuit breakers.	<p>The proposed project will be a new combined-cycle electrical power generating facility utilizing three power blocks consisting of a combustion turbine with a heat recovery steam generator (HRSG) and a reheat condensing steam turbine generator (three 1 x 1 configuration). The turbine model proposed is a MHPS M501JAC turbine. The project will have a nominal net generating capacity of 1,650 MW. The proposed fuel for the turbines is pipeline-quality natural gas. Emissions from the turbines will be controlled by the use of low carbon fuels and high efficiency design (for GHG), clean fuels and GCPs (for PM, PM10 and PM2.5), SCR and dry low NOx burners (for NOx), and oxidation catalyst (for CO and VOC). Other equipment at the site, including two natural gas-fired auxiliary boilers, three fuel gas heaters, a diesel-fired emergency fire water pump, and a diesel-fired emergency generator, are also proposed and will be subject to emission controls. Natural gas piping components and electrical circuit breakers potentially emit GHG pollutants (expressed as carbon dioxide equivalents, or CO2e) and they will also be covered in the permit.□</p> <p>This facility is not proposing duct firing in the HRSGs and is proposing air-cooled turbines that will not require cooling towers.</p>	Three (3) Mitsubishi Hitachi Power Systems combustion turbine generators	15.21	natural gas	35000	MMCF/YR	One on one configuration: 4,066 MMBtu/H combustion turbine. Emission limits reflect the operation of each of the three turbines.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Controlled by good combustion practices (e.g. controlled fuel/air mixing, adequate temperature, and gas residence time) and the use of pipeline-quality natural gas with a maximum sulfur content of 0.4 grains per 100 scf, on a 12-month rolling average.	0.0052	LB/MMBTU	AVG OF 3 TEST RUNS

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
BIG CAJUN I POWER PLANT	LOUISIANA GENERATING, LLC	POINTE COUPEE	LA	6/27/2019	Electric power generating station using two natural gas fed turbines (120 MW each)		Combustion Turbine #1 (EQT0002, CTG-1)	15.21	Natural Gas	1679	MM BTU/hr		Particulate matter, total &lt; 10 Åµ (TPM10)	Good Combustion Controls	19	LB/HR	HOURLY MAXIMUM
BIG CAJUN I POWER PLANT	LOUISIANA GENERATING, LLC	POINTE COUPEE	LA	6/27/2019	Electric power generating station using two natural gas fed turbines (120 MW each)		Combustion Turbine #2 (EQT0003, CTG-2)	15.21	Natural Gas	1679	MM BTU/hr		Particulate matter, total &lt; 10 Åµ (TPM10)	Good Combustion Controls	19	LB/HR	HOURLY MAXIMUM
COGEN TECH LINDEN VENTURE LP	COGEN TECH LINDEN VENTURE LP	UNION	NJ	7/30/2019	1182 megawatts (MW) electric and steam generating plant	New 250 MW General Electric (GE) 7F.05 CCCT with unfired heat recovery steam generator combusting natural gas (primary fuel) and back up ULSD equivalent to 800 hours per year.	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	15.21	Natural Gas	21042	MMCubic ft/yr	One New 250 MW General Electric 7F.05 Combined cycle combustion turbine with a Maximum heat Input rate of Size: 2517 MMBtu/hr (HHV) at 10 degrees F, equipped with add-on controls and SCR and Oxidation Catalyst.	Particulate matter, filterable (FPM)	USE OF CLEAN NATURAL GAS AND ULSD CLEAN BURNING FUELS	9.3	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
COGEN TECH LINDEN VENTURE LP	COGEN TECH LINDEN VENTURE LP	UNION	NJ	7/30/2019	1182 megawatts (MW) electric and steam generating plant	New 250 MW General Electric (GE) 7F.05 CCCT with unfired heat recovery steam generator combusting natural gas (primary fuel) and back up ULSD equivalent to 800 hours per year.	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	15.21	Natural Gas	21042	MMCubic ft/yr	One New 250 MW General Electric 7F.05 Combined cycle combustion turbine with a Maximum heat Input rate of Size: 2517 MMBtu/hr (HHV) at 10 degrees F, equipped with add-on controls and SCR and Oxidation Catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	11.58	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR
COGEN TECH LINDEN VENTURE LP	COGEN TECH LINDEN VENTURE LP	UNION	NJ	7/30/2019	1182 megawatts (MW) electric and steam generating plant	New 250 MW General Electric (GE) 7F.05 CCCT with unfired heat recovery steam generator combusting natural gas (primary fuel) and back up ULSD equivalent to 800 hours per year.	250 MW COMBINED CYCLE COMBUSTION TURBINE FIRING NATURAL GAS	15.21	Natural Gas	21042	MMCubic ft/yr	One New 250 MW General Electric 7F.05 Combined cycle combustion turbine with a Maximum heat Input rate of Size: 2517 MMBtu/hr (HHV) at 10 degrees F, equipped with add-on controls and SCR and Oxidation Catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	USE OF NATURAL GAS AND ULSD; BOTH CLEAN BURNING FUELS	11.58	LB/H	AV OF THREE ONE H STACK TESTS EVERY 5 YR

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
THOMAS TOWNSHIP ENERGY, LLC	THOMAS TOWNSHIP ENERGY, LLC	SAGINAW	MI	8/21/2019	New power plant	Thomas Township Energy is proposing to install two combustion turbine generators (CTG). Each CTG is connected to a heat recovery steam generator (HRSG), together referred to as a CTGHRSG. To reduce emissions of nitrogen oxides (NOx), the high-efficiency CTGHRSGs will be equipped with dry low-NOx burners and selective catalytic reduction (SCR). To reduce the emissions of carbon monoxide (CO) and volatile organic compounds (VOCs), each CTGHRSG will be equipped with an oxidation catalyst.	FGCTGHRSG	15.21	Natural gas	625	MW	Two (2) combined-cycle natural gas-fired combustion turbine generators (CTGs), each with a heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG). Each CTGHRSG has a combined nominal 625 MW electricity production (ISO) and a maximum combined heat input rating of 4,200 MMBTU/hr (HHV). Each HRSG is equipped with a natural gas-fired duct burner with a maximum rating of 560 MMBTU/hr (HHV) (ISO) to provide heat for additional steam production.	Particulate matter, total (TPM)	Low sulfur fuel and good combustion practices.	0.0034	LB/MMBTU	HOURLY; EACH UNIT
THOMAS TOWNSHIP ENERGY, LLC	THOMAS TOWNSHIP ENERGY, LLC	SAGINAW	MI	8/21/2019	New power plant	Thomas Township Energy is proposing to install two combustion turbine generators (CTG). Each CTG is connected to a heat recovery steam generator (HRSG), together referred to as a CTGHRSG. To reduce emissions of nitrogen oxides (NOx), the high-efficiency CTGHRSGs will be equipped with dry low-NOx burners and selective catalytic reduction (SCR). To reduce the emissions of carbon monoxide (CO) and volatile organic compounds (VOCs), each CTGHRSG will be equipped with an oxidation catalyst.	FGCTGHRSG	15.21	Natural gas	625	MW	Two (2) combined-cycle natural gas-fired combustion turbine generators (CTGs), each with a heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG). Each CTGHRSG has a combined nominal 625 MW electricity production (ISO) and a maximum combined heat input rating of 4,200 MMBTU/hr (HHV). Each HRSG is equipped with a natural gas-fired duct burner with a maximum rating of 560 MMBTU/hr (HHV) (ISO) to provide heat for additional steam production.	Particulate matter, total &lt; 10 Åµ (TPM10)	Low sulfur fuel and good combustion practices.	0.006	LB/MMBTU	HOURLY; EACH UNIT
THOMAS TOWNSHIP ENERGY, LLC	THOMAS TOWNSHIP ENERGY, LLC	SAGINAW	MI	8/21/2019	New power plant	Thomas Township Energy is proposing to install two combustion turbine generators (CTG). Each CTG is connected to a heat recovery steam generator (HRSG), together referred to as a CTGHRSG. To reduce emissions of nitrogen oxides (NOx), the high-efficiency CTGHRSGs will be equipped with dry low-NOx burners and selective catalytic reduction (SCR). To reduce the emissions of carbon monoxide (CO) and volatile organic compounds (VOCs), each CTGHRSG will be equipped with an oxidation catalyst.	FGCTGHRSG	15.21	Natural gas	625	MW	Two (2) combined-cycle natural gas-fired combustion turbine generators (CTGs), each with a heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG). Each CTGHRSG has a combined nominal 625 MW electricity production (ISO) and a maximum combined heat input rating of 4,200 MMBTU/hr (HHV). Each HRSG is equipped with a natural gas-fired duct burner with a maximum rating of 560 MMBTU/hr (HHV) (ISO) to provide heat for additional steam production.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Low sulfur fuel and good combustion practices.	0.006	LB/MMBTU	HOURLY; EACH UNIT
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	11/26/2019	Natural gas combined cycle power plant		FGCTGHRSG	15.21	Natural gas	3421	MMBTU/H	3421 MMBTU/H for each turbine 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.  Two combined-cycle natural gas-fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSG) (EUCTGHRSG1 & EUCTGHRSG2 in FGCTGHRSG). The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period.	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	9.9	LB/H	HOURLY; EACH CTGHRSG

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	11/26/2019	Natural gas combined cycle power plant		FGCTGHRSG	15.21	Natural gas	3421	MMBTU/H	3421 MMBTU/H for each turbine 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.  Two combined-cycle natural gas-fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSG) (EUCTGHRSG1 & EUCTGHRSG2 in FGCTGHRSG). The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	HOURLY; EACH CTGHRSG
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	11/26/2019	Natural gas combined cycle power plant		FGCTGHRSG	15.21	Natural gas	3421	MMBTU/H	3421 MMBTU/H for each turbine 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.  Two combined-cycle natural gas-fired combustion turbine generators (CTGs) with Heat Recovery Steam Generators (HRSG) (EUCTGHRSG1 & EUCTGHRSG2 in FGCTGHRSG). The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.8	LB/H	HOURLY; EACH CTGHRSG
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01)	15.21	Natural Gas	4671	MMBTU/H	One Natural-Gas-Fired Siemens SGT6-8000 H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil], Selective Catalytic Reduction (SCR) (C01a) and Oxidation Catalyst (C01b)	Particulate matter, total (TPM)	Only combust pipeline quality natural gas and diesel fuel oil and use good combustion control according to the manufacturerâ€™s recommendations.	36.3	LB/H	NATURAL GAS, DUCT FIRING
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01)	15.21	Natural Gas	4671	MMBTU/H	One Natural-Gas-Fired Siemens SGT6-8000 H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil], Selective Catalytic Reduction (SCR) (C01a) and Oxidation Catalyst (C01b)	Particulate matter, total &lt; 10 Åµ (TPM10)	Only pipeline quality natural gas and diesel fuel oil may be combusted and use good combustion control according to the manufacturerâ€™s recommendations.	36.3	LB/H	NATURAL GAS, DUCT FIRING
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01)	15.21	Natural Gas	4671	MMBTU/H	One Natural-Gas-Fired Siemens SGT6-8000 H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil], Selective Catalytic Reduction (SCR) (C01a) and Oxidation Catalyst (C01b)	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Only combust pipeline quality natural gas and diesel fuel oil and use good combustion control according to the manufacturerâ€™s recommendations.	36.3	LB/H	NATURAL GAS, DUCT FIRING
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil	Particulate matter, total (TPM)		43.6	LB/START-UP	

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines ( Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil	Particulate matter, total &lt; 10 Åµ (TPM10)		43.6	LB/START-UP	
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural Gas-Fired Combined-Cycle Turbine (P01) Start-up and Shutdown (Natural Gas)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		43.6	LB/START-UP	
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil],	Particulate matter, total (TPM)		78.9	LB/START-UP	
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil],	Particulate matter, total &lt; 10 Åµ (TPM10)		78.9	LB/START-UP	
NEMADJI TRAIL ENERGY CENTER	NEMADJI TRAIL ENERGY CENTER	DOUGLAS	WI	9/1/2020	Natural gas-fired power plant		Natural-Gas-Fired Combined-Cycle Turbine (P01) Start-Up and Shutdown (diesel)	15.21	Natural Gas	0		One Natural-Gas-Fired Siemens SGT6-8000H Combined-Cycle Turbine with Natural Gas-Fired Duct Burner and Diesel Fuel Oil Back-Up [Maximum continuous rating: 4,671 MMBtu/hr higher heating value (HHV) when combusting natural gas, 4,027 MMBtu/hr, HHV when combusting diesel fuel oil],	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		78.9	LB/START-UP	
PLANT BARRY	ALABAMA POWER COMPANY	MOBILE	AL	11/9/2020			Two 744 MW Combined Cycle Units	15.21	Natural Gas	744	MW		Particulate matter, total &lt; 10 Åµ (TPM10)		0.004	LB/MMBTU	3 HOUR AVG
PLANT BARRY	ALABAMA POWER COMPANY	MOBILE	AL	11/9/2020			Two 744 MW Combined Cycle Units	15.21	Natural Gas	744	MW		Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)		0.004	LB/MMBTU	3 HOUR AVG
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	1/7/2021	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG1--A nominally rated 667 MMBTU/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR), and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES

Appendix D - RBLC Search Results  
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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	1/7/2021	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG1--A nominally rated 667 MMBTU/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR), and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	1/7/2021	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2--A nominally rated 667 MMBTU/hr natural gas-fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR, and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
LBWL--ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	1/7/2021	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2--A nominally rated 667 MMBTU/hr natural gas-fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBTU/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR, and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
UNIT 5	NRG CEDAR BAYOU LLC	CHAMBERS	TX	3/17/2021	UNIT 5		COMBINED CYCLE TURBINE	15.21	NATURAL GAS	0			Particulate matter, filterable (FPM)	Low sulfur natural gas fuel	0		
UNIT 5	NRG CEDAR BAYOU LLC	CHAMBERS	TX	3/17/2021	UNIT 5		COMBINED CYCLE TURBINE	15.21	NATURAL GAS	0			Particulate matter, filterable &lt; 10 Åµ (FPM10)	Low sulfur natural gas fuel	0		

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
UNIT 5	NRG CEDAR BAYOU LLC	CHAMBERS	TX	3/17/2021	UNIT 5		COMBINED CYCLE TURBINE	15.21	NATURAL GAS	0			Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)	Low sulfur natural gas fuel	0		
RENOVO ENERGY CENTER LLC/RENOVO PLT	RENOVO ENERGY CENTER LLC	CLINTON	PA	4/29/2021		This plan approval is for the construction and operation of a 1,240-Megawatt natural gas/ultra-low sulfur diesel-fired combustion turbine, combined-cycle power plant with ancillary equipment.	COMBUSTION TURBINE w DUCT BURNER #2 (Natural Gas)	15.21	Natural Gas	4546	MMBtu/Hr	The air contaminants from each power block will be controlled by a selective catalytic reduction (SCR) system and an oxidation catalyst.	Particulate matter, total (TPM)	SCR, CATALYTIC OXIDIZER	0.005	LB/MMBTU	
RENOVO ENERGY CENTER LLC/RENOVO PLT	RENOVO ENERGY CENTER LLC	CLINTON	PA	4/29/2021		This plan approval is for the construction and operation of a 1,240-Megawatt natural gas/ultra-low sulfur diesel-fired combustion turbine, combined-cycle power plant with ancillary equipment.	COMBUSTION TURBINE w DUCT BURNER #1 (Natural Gas)	15.21	Natural Gas	4546	MMBtu/Hr	The air contaminants from each power block will be controlled by a selective catalytic reduction (SCR) system and an oxidation catalyst.	Particulate matter, total (TPM)	SCR, Catalytic Oxidizer	0.005	LB/MMBTU	
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	6/7/2021	The Shady Hills Combined Cycle Facility (SHCCF), a new 573-megawatt (MW) (winter) 1-on-1 combined cycle electrical generating facility to be owned and operated by Shady Hills Energy Center, LLC, which will be located at 14350 Merchant Energy Way, Spring Hill, Florida. The proposed work will be conducted on an approximately 14-acre parcel east of and located adjacent to the existing Shady Hills Generating Station (SHGS) power plant, which is owned and operated by Shady Hills Power Company, L.L.C.		GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	15.21	Natural Gas	3622.1	MMBtu/hour	Throughput based on a compressor inlet air temperature of 59Å° F, the higher heating value (HHV) of natural gas, and 100% load	Particulate matter, filterable (FPM)	Low sulfur fuel	1.4	GR. S/100 SCF NG	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	6/7/2021	The Shady Hills Combined Cycle Facility (SHCCF), a new 573-megawatt (MW) (winter) 1-on-1 combined cycle electrical generating facility to be owned and operated by Shady Hills Energy Center, LLC, which will be located at 14350 Merchant Energy Way, Spring Hill, Florida. The proposed work will be conducted on an approximately 14-acre parcel east of and located adjacent to the existing Shady Hills Generating Station (SHGS) power plant, which is owned and operated by Shady Hills Power Company, L.L.C.		GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	15.21	Natural Gas	3622.1	MMBtu/hour	Throughput based on a compressor inlet air temperature of 59Â° F, the higher heating value (HHV) of natural gas, and 100% load	Particulate matter, total &lt; 10 Åµ (TPM10)	Clean fuels	1.4	GR. S/100 SCF NG	
SHADY HILLS COMBINED CYCLE FACILITY	SHADY HILLS ENERGY CENTER, LLC	PASCO	FL	6/7/2021	The Shady Hills Combined Cycle Facility (SHCCF), a new 573-megawatt (MW) (winter) 1-on-1 combined cycle electrical generating facility to be owned and operated by Shady Hills Energy Center, LLC, which will be located at 14350 Merchant Energy Way, Spring Hill, Florida. The proposed work will be conducted on an approximately 14-acre parcel east of and located adjacent to the existing Shady Hills Generating Station (SHGS) power plant, which is owned and operated by Shady Hills Power Company, L.L.C.		GE 7HA.02 Combustion Turbine and HRSG with Duct Firing	15.21	Natural Gas	3622.1	MMBtu/hour	Throughput based on a compressor inlet air temperature of 59Â° F, the higher heating value (HHV) of natural gas, and 100% load	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Clean fuels	1.4	GR. S/100 SCF NG	
MAIDSVILLE	MOUNTAIN STATE CLEAN ENERGY, LLC	MONONGALIA	WV	1/5/2022	This project consist of constructing two combined cycle combustion turbine with duct burners, two fuel gas heaters, two emergency engines (emergency generator and fire water pump), and cooling tower. The configuration of these combustion turbines with heat recovery steam generators will be a 2X1. This facility will be co-located next to existing EGU (Longview Power LLC). The CCCTs with duct burners and fuel gas heaters will operate only on natural gas. Both emergency engines will be diesel fired units.	A bi-direction steam line between the Mountain State Clean Energy and Longview Power will be use to provide startup steam in lieu of a auxiliary boiler.□ No limits on operating hours or fuel use for the duct burners.□ Applicant proposed two different model combustion turbine (GE 7HA.03 and MHPS M501JAC).□ Gross Generation for the facility is 1275 MWh.	Combustion Turbine & Duct Burner (CT-01/HRSG1 & Duct CT-02/HRSG2)	15.21	Pipeline Natural Gas	1275	mw	CT - 3,875 MMBtu/hr DB - 586 MMBtu/hr Gross Generation - 1275 MW	Particulate matter, total (TPM)	Clean Fuels and Good Combustion Practice	0.006	LB/MMBTU	AVG OF 3 4-HR TEST RUNS
MAIDSVILLE	MOUNTAIN STATE CLEAN ENERGY, LLC	MONONGALIA	WV	1/5/2022	This project consist of constructing two combined cycle combustion turbine with duct burners, two fuel gas heaters, two emergency engines (emergency generator and fire water pump), and cooling tower. The configuration of these combustion turbines with heat recovery steam generators will be a 2X1. This facility will be co-located next to existing EGU (Longview Power LLC). The CCCTs with duct burners and fuel gas heaters will operate only on natural gas. Both emergency engines will be diesel fired units.	A bi-direction steam line between the Mountain State Clean Energy and Longview Power will be use to provide startup steam in lieu of a auxiliary boiler.□ No limits on operating hours or fuel use for the duct burners.□ Applicant proposed two different model combustion turbine (GE 7HA.03 and MHPS M501JAC).□ Gross Generation for the facility is 1275 MWh.	Combustion Turbine & Duct Burner (CT-01/HRSG1 & Duct CT-02/HRSG2)	15.21	Pipeline Natural Gas	1275	mw	CT - 3,875 MMBtu/hr DB - 586 MMBtu/hr Gross Generation - 1275 MW	Particulate matter, total (TPM)	Good Combustion Practice and Clean Fuel	0.006	LB/MMBTU	AVG OF 3 4-HR TEST RUNS

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																		
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition	
MAGNOLIA POWER GENERATING STATION UNIT 1	MAGNOLIA POWER LLC	IBERVILLE	LA	6/3/2022	Magnolia Power LLC (Magnolia Power) is proposing to construct and operate a power plant, Magnolia Power Generating Station Unit 1, consisting of a natural gas-fired combined cycle gas turbine (CCGT Unit) in Iberville Parish, Louisiana. The CCGT Unit (EQT001), which includes a heat recovery steam generator (HRSG) equipped with duct burners, will have a predicted net nominal output of 730 megawatts (MW)		Combined Cycle Gas Turbine w/ Duct Burners and HRSG	15.21	Natural Gas	5081	mm BTU/h	Normal operating rate is 4930 MMBTU/h.	Particulate matter, total &lt; 10 Åµ (TPM10)	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.008	LB/MM BTU	3 ONE-HOUR TEST AVERAGE	
MAGNOLIA POWER GENERATING STATION UNIT 1	MAGNOLIA POWER LLC	IBERVILLE	LA	6/3/2022	Magnolia Power LLC (Magnolia Power) is proposing to construct and operate a power plant, Magnolia Power Generating Station Unit 1, consisting of a natural gas-fired combined cycle gas turbine (CCGT Unit) in Iberville Parish, Louisiana. The CCGT Unit (EQT001), which includes a heat recovery steam generator (HRSG) equipped with duct burners, will have a predicted net nominal output of 730 megawatts (MW)		Combined Cycle Gas Turbine w/ Duct Burners and HRSG	15.21	Natural Gas	5081	mm BTU/h	Normal operating rate is 4930 MMBTU/h.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Use of gaseous fuel (pipeline-quality natural gas) and good combustion practices.	0.008	LB/MM BTU	3 ONE-HOUR TEST AVERAGE	
MAGNOLIA POWER GENERATING STATION UNIT 1	MAGNOLIA POWER LLC	IBERVILLE	LA	6/3/2022	Magnolia Power LLC (Magnolia Power) is proposing to construct and operate a power plant, Magnolia Power Generating Station Unit 1, consisting of a natural gas-fired combined cycle gas turbine (CCGT Unit) in Iberville Parish, Louisiana. The CCGT Unit (EQT001), which includes a heat recovery steam generator (HRSG) equipped with duct burners, will have a predicted net nominal output of 730 megawatts (MW)		Combined Cycle Gas Turbine Startup and Shutdown	15.21	Natural Gas	5081	mm BTU/h	Startup and shutdown emissions from the combined cycle gas turbine.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices.	18	LB/HR		
MAGNOLIA POWER GENERATING STATION UNIT 1	MAGNOLIA POWER LLC	IBERVILLE	LA	6/3/2022	Magnolia Power LLC (Magnolia Power) is proposing to construct and operate a power plant, Magnolia Power Generating Station Unit 1, consisting of a natural gas-fired combined cycle gas turbine (CCGT Unit) in Iberville Parish, Louisiana. The CCGT Unit (EQT001), which includes a heat recovery steam generator (HRSG) equipped with duct burners, will have a predicted net nominal output of 730 megawatts (MW)		Combined Cycle Gas Turbine Startup and Shutdown	15.21	Natural Gas	5081	mm BTU/h	Startup and shutdown emissions from the combined cycle gas turbine.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices	18	LB/HR		
MEC NORTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined-cycle power plant (two plants: north and south).	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	15.21	Natural gas	3064	MMBTU/H	Throughput Information: Nominal 500 MW electricity production. Turbine rating of 3,064 MMBTU/hr (HHV) and HRSG duct burner rating of 889 MMBTU/Hr (HHV). A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, filterable (FPM)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	5.7	LB/H	HOURLY	
MEC NORTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined-cycle power plant (two plants: north and south).	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	15.21	Natural gas	3064	MMBTU/H	Throughput Information: Nominal 500 MW electricity production. Turbine rating of 3,064 MMBTU/hr (HHV) and HRSG duct burner rating of 889 MMBTU/Hr (HHV). A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices, inlet air conditioning and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY	

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines ( Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MEC NORTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined-cycle power plant (two plants: north and south).	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (North Plant): A combined cycle natural gas fired combustion turbine generator with heat recovery steam generator	15.21	Natural gas	3064	MMBTU/H	Throughput Information: Nominal 500 MW electricity production. Turbine rating of 3,064 MMBTU/hr (HHV) and HRSG duct burner rating of 889 MMBTU/Hr (HHV). □ A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices, inlet air conditioning, and the use of pipeline quality natural gas.	19.1	LB/H	HOURLY
MEC SOUTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined cycle power plant (Two Plants: North and South)	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	3064	MMBTU/H	Nominal 500 MW electricity production. Turbine rating of 3064 MMBTU/H (HHV) and HRSG duct burner rating of 889 MMBTU/H (HHV). □ A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, filterable (FPM)	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	5.7	LB/H	HOURLY
MEC SOUTH, LLC	MARSHALL ENERGY CENTER, LLC	CALHOUN	MI	6/23/2022	Natural gas combined cycle power plant (Two Plants: North and South)	The two plants (MEC North, LLC and MEC South, LLC) will operate as separate entities but they are considered a single stationary source and the installation of the two new plants was reviewed as a single project.	EUCTGHRSG (South Plant): A combined-cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	3064	MMBTU/H	Nominal 500 MW electricity production. Turbine rating of 3064 MMBTU/H (HHV) and HRSG duct burner rating of 889 MMBTU/H (HHV). □ A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,064 MMBTU/hr (HHV). The HRSG is equipped with a natural gas fired duct burner, with a maximum heat input rating of 889 MMBTU/hr (HHV) and rated at 874 MMBTU/hr (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR, and an oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good Combustion Practices, inlet air conditioning, and the use of pipeline quality natural gas	19.1	LB/H	HOURLY

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LIQUEFACTION PLANT	ALASKA GASLINE DEVELOPMENT CORPORATION	KENAI PENNINSULA BOROUGH	AK	7/7/2022	The Liquefaction Plant is planned to encompass 921 acres, including 901 acres onshore for the liquefied natural gas (LNG) Plant as well as 20 acres offshore for the Marine Terminal. The Liquefaction Plant will be the terminus of an approximately 807-mile gas pipeline, allowing natural gas from Alaska’s North Slope to be shipped to outside markets. The stationary source will consist of structures and equipment associated with processing, storage, and loading of LNG. There will be three liquefaction trains combining to process up to approximately 20 million metric tons per annun of LNG.		Four Combined Cycle Gas-Fired Turbines	15.21	Natural Gas	384	MMBTu/hr	EUs 7 - 10 are combined cycle gas turbines used for power generation at LNG facility	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
LIQUEFACTION PLANT	ALASKA GASLINE DEVELOPMENT CORPORATION	KENAI PENNINSULA BOROUGH	AK	7/7/2022	The Liquefaction Plant is planned to encompass 921 acres, including 901 acres onshore for the liquefied natural gas (LNG) Plant as well as 20 acres offshore for the Marine Terminal. The Liquefaction Plant will be the terminus of an approximately 807-mile gas pipeline, allowing natural gas from Alaska’s North Slope to be shipped to outside markets. The stationary source will consist of structures and equipment associated with processing, storage, and loading of LNG. There will be three liquefaction trains combining to process up to approximately 20 million metric tons per annun of LNG.		Four Combined Cycle Gas-Fired Turbines	15.21	Natural Gas	384	MMBTu/hr	EUs 7 - 10 are combined cycle gas turbines used for power generation at LNG facility	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
LIQUEFACTION PLANT	ALASKA GASLINE DEVELOPMENT CORPORATION	KENAI PENNINSULA BOROUGH	AK	7/7/2022	The Liquefaction Plant is planned to encompass 921 acres, including 901 acres onshore for the liquefied natural gas (LNG) Plant as well as 20 acres offshore for the Marine Terminal. The Liquefaction Plant will be the terminus of an approximately 807-mile gas pipeline, allowing natural gas from Alaska’s North Slope to be shipped to outside markets. The stationary source will consist of structures and equipment associated with processing, storage, and loading of LNG. There will be three liquefaction trains combining to process up to approximately 20 million metric tons per annun of LNG.		Four Combined Cycle Gas-Fired Turbines	15.21	Natural Gas	384	MMBTu/hr	EUs 7 - 10 are combined cycle gas turbines used for power generation at LNG facility	Particulate matter, total (TPM)	Good combustion practices and burning clean fuel (natural gas)	0.007	LB/MMBTU	3-HOURS
LINCOLN LAND ENERGY CENTER	LINCOLN LAND ENERGY CENTER (A/K/A EMBERCLEAR)	SANGAMON	IL	7/29/2022	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, with each a Siemens combustion turbine (3,647 mmBtu/hr) and a heat recovery steam generator (HRSG) with duct burners (35 mmBtu/hr); fired by natural gas only. Other units at the facility include an auxiliary boiler, engines, piping and piping components, circuit breakers and roadways.	Additional facility-wide pollutants, in tons/year: PM10/PM 2.5: 131.7 and 131.6 (respectively); sulfuric acid mist (SAM): 17.2; greenhouse gasses (GHG): 3,586,918	Combined-Cycle Combustion Turbines	15.21	Natural Gas	3647	mmBtu/hour	Combined-cycle comustion turbines and heat recovery steam generators (HRSG) with a 35 mmBtu/hr duct burner. Turbine inlets would have evaporative cooling systems to cool the inlet air during warm weather to increase power output.	Particulate matter, total (TPM)	Good combustion practices	0.0032	POUNDS/MM BTU	WITH DUCT BURNER; ROLLING 3-OPERATING HR
LINCOLN LAND ENERGY CENTER	LINCOLN LAND ENERGY CENTER (A/K/A EMBERCLEAR)	SANGAMON	IL	7/29/2022	The proposed facility is designed to generate baseload power. It will consist of two combined-cycle generating units, with each a Siemens combustion turbine (3,647 mmBtu/hr) and a heat recovery steam generator (HRSG) with duct burners (35 mmBtu/hr); fired by natural gas only. Other units at the facility include an auxiliary boiler, engines, piping and piping components, circuit breakers and roadways.	Additional facility-wide pollutants, in tons/year: PM10/PM 2.5: 131.7 and 131.6 (respectively); sulfuric acid mist (SAM): 17.2; greenhouse gasses (GHG): 3,586,918	Combined-Cycle Combustion Turbines	15.21	Natural Gas	3647	mmBtu/hour	Combined-cycle comustion turbines and heat recovery steam generators (HRSG) with a 35 mmBtu/hr duct burner. Turbine inlets would have evaporative cooling systems to cool the inlet air during warm weather to increase power output.	Particulate matter, total &lt; 10 Åµ (TPM10)	Good combustion practices.	0.0041	POUNDS/MM BTU	ROLLING 3-OPERATING HOUR

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG1- A nominally rated 667 MMBtu/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR), and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPER. MODES
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG1	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG1- A nominally rated 667 MMBtu/hr natural gas-fired combustion turbine generator (CTG) coupled with a heat recovery steam generator (HRSG). The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a dry low NOx burner (DLNB), selective catalytic reduction (SCR), and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL OPERAT. MODES
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2- A nominally rated 667 MMBtu/hr natural gas-fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR, and oxidation catalyst.	Particulate matter, total &lt; 10 Åµ (TPM10)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY; APPLIES DURING ALL MODES

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LBWL-ERICKSON STATION	LANSING BOARD OF WATER AND LIGHT	EATON	MI	12/20/2022	Natural gas combined-cycle power plant	The proposed new plant will be replacing the electrical generating capacity of both BWL's existing coal-fired power plants. BWL intends to retire those coal-fired power plants from service by 2025. However, before they can be retired, the new natural gas power plant must be operational. Emissions in the area will increase for a short period if the new combined-cycle plant is built. However, there will be overall reductions in emissions when the existing coal fired power plants are taken out of service.	EUCTGHRSG2	15.21	Natural gas	667	MMBTU/H	EUCTGHRSG2- A nominally rated 667 MMBtu/hr natural gas-fired CTG coupled with a HRSG. The HRSG is equipped with a natural gas-fired duct burner rated at 204 MMBtu/hr to provide heat for additional steam production. The CTG is capable of operating in combined-cycle mode where the exhaust is routed to the HRSG or in simple-cycle mode where the HRSG is bypassed. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with a DLNB, SCR, and oxidation catalyst.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Pipeline quality natural gas, inlet air conditioning, and good combustion practices.	6.02	LB/H	HOURLY, APPLY DURING ALL OPERATING MODES
MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND	MI	2/1/2023	Electric and steam generation		EUCTGHRSG1	15.21	Natural gas	4197.6	MMBTU/H		Particulate matter, filterable (FPM)	Use of pipeline quality natural gas and good combustion practices.	34.4	LB/H	HOURLY
MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND	MI	2/1/2023	Electric and steam generation		EUCTGHRSG1	15.21	Natural gas	4197.6	MMBTU/H		Particulate matter, total &lt; 10 Åµ (TPM10)	Use of pipeline quality natural gas and good combustion practices.	34.4	LB/H	HOURLY

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND COGENERATION VENTURE LIMITED PARTNERSHIP	MIDLAND	MI	2/1/2023	Electric and steam generation		EUCTGHRSG1	15.21	Natural gas	4197.6	MMBTU/H		Particulate matter, total &lt; 2.5 Åµ (TPM2.5)	Use of pipeline quality natural gas and good combustion practices.	34.4	LB/H	HOURLY
ORANGE COUNTY ADVANCED POWER STATION	ENTERGY TEXAS, INC.	ORANGE	TX	3/13/2023	Entergy Texas, Inc. proposes construction of a power plant consisting of two natural gas-fired combined cycle turbines with a maximum total nominal output of 1,215 MW. The turbines can also be fired with up to 30% volume hydrogen co-firing (blended fuel). Emergency engines, a cooling tower, storage tanks, and maintenance activities support operation of the turbines.		Combined Cycle Turbines	15.21	NATURAL GAS	1215	MW	2 Mitsubishi M501JAC combustion turbines 1,215 MW (in a 2x1 configuration) output and 6,762 Btu/kW-hr (with a 9% degradation) gross heat rate.	Particulate matter, filterable &lt; (FPM)	good combustion practices	0.005	LB/MMBTU	
ORANGE COUNTY ADVANCED POWER STATION	ENTERGY TEXAS, INC.	ORANGE	TX	3/13/2023	Entergy Texas, Inc. proposes construction of a power plant consisting of two natural gas-fired combined cycle turbines with a maximum total nominal output of 1,215 MW. The turbines can also be fired with up to 30% volume hydrogen co-firing (blended fuel). Emergency engines, a cooling tower, storage tanks, and maintenance activities support operation of the turbines.		Combined Cycle Turbines	15.21	NATURAL GAS	1215	MW	2 Mitsubishi M501JAC combustion turbines 1,215 MW (in a 2x1 configuration) output and 6,762 Btu/kW-hr (with a 9% degradation) gross heat rate.	Particulate matter, filterable &lt; 10 Åµ (FPM10)	good combustion practices	0.005	LB/MMBTU	
ORANGE COUNTY ADVANCED POWER STATION	ENTERGY TEXAS, INC.	ORANGE	TX	3/13/2023	Entergy Texas, Inc. proposes construction of a power plant consisting of two natural gas-fired combined cycle turbines with a maximum total nominal output of 1,215 MW. The turbines can also be fired with up to 30% volume hydrogen co-firing (blended fuel). Emergency engines, a cooling tower, storage tanks, and maintenance activities support operation of the turbines.		Combined Cycle Turbines	15.21	NATURAL GAS	1215	MW	2 Mitsubishi M501JAC combustion turbines 1,215 MW (in a 2x1 configuration) output and 6,762 Btu/kW-hr (with a 9% degradation) gross heat rate.	Particulate matter, filterable &lt; 2.5 Åµ (FPM2.5)	good combustion practices	0.005	LB/MMBTU	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGB	15.21	natural gas	4200	MMBtu per hour	Option 2 GE Model 7HA.03 Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 4,200 MMBtu per hour, equipped with a GE combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO. □  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total &lt; 10 Åµ (TPM10)		0.0074	LB PER MMBTU	

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Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGB	15.21	natural gas	4200	MMBtu per hour	Option 2 GE Model 7HA.03 Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 4,200 MMBtu per hour, equipped with a GE combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO.☐  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		0.0074	LB PER MMBTU	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGB	15.21	natural gas	4200	MMBtu per hour	Option 2 GE Model 7HA.03 Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 4,200 MMBtu per hour, equipped with a GE combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO.☐  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total (TPM)		0.0074	POUND PER MMBTU	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA SU/SD	15.21	Natural gas	3800	MMBtu per hour	Startup and Shutdown Limitations for Combustion Turbine Option 1: Siemens Model SCC6-9000HL Turbine.	Particulate matter, total &lt; 10 Åµ (TPM10)		5.3	LB/EVENT	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA SU/SD	15.21	Natural gas	3800	MMBtu per hour	Startup and Shutdown Limitations for Combustion Turbine Option 1: Siemens Model SCC6-9000HL Turbine.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		5.3	LB/EVENT	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA	15.21	Natural Gas	3800	MMBtu per hour	Option 1 Siemens Model SCC6-9000HL Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 3,800 MMBtu per hour, equipped with a Siemens combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO.☐  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total (TPM)		0.0049	POUND PER MMBTU	
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA	15.21	Natural Gas	3800	MMBtu per hour	Option 1 Siemens Model SCC6-9000HL Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 3,800 MMBtu per hour, equipped with a Siemens combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO.☐  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total &lt; 10 Åµ (TPM10)		0.0049	LB PER MMBTU	

Table D-2. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - PM

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MAPLE CREEK ENERGY LLC		SULLIVAN	IN	6/19/2023			Combined Cycle Turbine CTGA	15.21	Natural Gas	3800	MMBtu per hour	Option 1 Siemens Model SCC6-9000HL Turbine - natural gas-fired combined cycle system with a maximum heat input capacity of 3,800 MMBtu per hour, equipped with a Siemens combustion turbine generator (CTG) exhausting to a heat recovery steam generator (HRSG) which will feed steam to one steam turbine generator (STG), using dry-low-NOx (DLN) combustors and selective catalytic reduction (SCR) for control of NOx emissions, and an oxidation catalyst as VOC and CO control, and exhausting to stack CTG with continuous emissions monitors for NOx and CO. □  Facility will install only one turbine, but at the time of permitting had not decided which turbine would be used.	Particulate matter, total &lt; 2.5 Åµ (TPM2.5)		0.0049	LB PER MMBTU	

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Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO																		
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition	
CEDAR BAYOU ELECTRIC GENERATING STATION	NRG TEXAS POWER LLC	CHAMBERS COUNTY	TX	3/31/2015	NRG operates the Cedar Bayou 4 Electric Generating Station in Chambers County, consisting of two natural gas-fired combustion turbines, Emission Point Numbers (EPNs) CBY41 and CBY42, and associated ancillary equipment. NRG’s amendment application requests an increase in the annual carbon monoxide (CO) and a small increase in the volatile organic compounds (VOC) emission rates for both turbines, due to an increase in the number of startups per year. NRG requests to install oxidation catalysts to each unit.		Combined cycle turbines	15.21	Natural Gas	187	MW/turbine		Carbon Monoxide	Oxidation catalysts	15	PPMVD	15%O2	
COLORADO BEND ENERGY CENTER	COLORADO BEND II POWER, LLC	WHARTON	TX	4/1/2015	Combined cycle combustion turbine electric generating facility. These will be the first two General Electric (GE) Model 7HA.02 Combustion Turbines in a combined cycle power plant that uses two combustion turbines and one steam turbine using air-cooled condensers and controlled with Selective catalytic reduction (SCR) and oxidation catalyst.		Combined-cycle gas turbine electric generating facility	15.21	natural gas	1100	MW	combined cycle power plant that uses two combustion turbines and one steam turbine, model GE 7HA.02	Carbon Monoxide	SCR and oxidation catalyst	4	PPMVD @ 15% O2	3-HR AVERAGE	
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	Note: The proposed modification was not installed.  Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.  Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.  Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.	Combustion Turbines, Scenario 1 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2022	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Carbon Monoxide	Oxidation catalyst	10.4	LB/H	WITHOUT DUCT BURNERS. SEE NOTES.	
ROLLING HILLS GENERATING, LLC		VINTON	OH	5/20/2015	Electrical services	Note: The proposed modification was not installed.  Chapter 31 major modification to convert four of the existing five simple cycle peaking units, SW501F turbines nominally rated at 209 megawatts (MW) each, to combined cycle configuration consisting of two 2x1 combined cycle blocks, the addition of four heat recovery steam generators (HRSGs), each of which will be equipped with duct burners, and two steam turbine generators.  Permit includes 2 options for the units. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner. Emissions increase noted below is for scenario 1.  Scenario 2 = 5101.7 CO, 449.31 NOx, 346.8 PM and 600.62 VOC.	Combustion Turbines, Scenario 2 (4, identical) (P001, P002, P004, P005)	15.21	Natural gas	2144	MMBTU/H	Scenario 1 only. Other scenario added as separate process. Siemens Westinghouse Power Corp. SW501F, (Scenario 1: 200 MW, with 2022 MMBtu/hr input & 550 MMBtu/hr duct burner. Scenario 2: 207.5 MW with 2144 MMBtu/hr input & 550 MMBtu/hr duct burner.) combined cycle natural gas fired turbine with Dry Low-NOX combusters, SCR and duct burner.	Carbon Monoxide	Oxidation catalyst	12	LB/H	WITH DUCT BURNER. SEE NOTES.	
YORK ENERGY CENTER BLOCK 2 ELECTRICITY GENERATION PROJECT	CALPINE MID-MERIT, LLC	YORK	PA	6/15/2015	Calpine Mid-Merit, LLC. currently operates Block 1 of the York Energy Center under Title V operating permit 67-05083 with a rated capacity of 565 MW. This plan approval is for the construction and temporary operation of Block 2 Electricity Generation Project having a nominal generating capacity of 835 MW. Block 2 consists of two combined cycle NG/USLD fuel fired combustion turbines, one NG-fired auxiliary boiler, one cooling tower, NG piping componets, circuit breaker upgrades, five NG condensate tanks, and additional ULSD fuel oil storage tank. Each CT will be limited to 4500 hr/yr with duct firing; 480 hr/yr of ULSD		Two Combine Cycle Combustion Turbine with Duct Burner	15.21	Natural Gas	3001.57	MCF/hr	Two (2) Combustion Turbine, 235 MW / 2512.5 MMBtu/hr, will fire NG and with the design having no bypasss from the CT to HRSG the CT will always be in combined cycle mode the HRSG with NG-fired Duct Burner maximum rated heat input capacity 722 MMBtu/hr. CT will employ dry low NOx burner technology (NG firing), controlled by SCR and oxidation catalyst. . (Operational limits are for each CCCT NG-fired with duct burner)	Carbon Monoxide	Oxidation catalyst and good combustion practices	2	PPMDV @ 15% O2		
EAGLE MOUNTAIN STEAM ELECTRIC STATION	EAGLE MOUNTAIN POWER COMPANY LLC	TARRANT	TX	6/18/2015	Eagle is proposing to construct two new combined cycle combustion turbines (CTG) which will generate electric power for sale on the wholesale electric market. The ancillary equipment includes an auxiliary boiler, a firewater pump, an emergency generator, a steam turbine, and various support facilities.		Combined Cycle Turbines (>25 MW) – natural gas	15.21	natural gas	210	MW	Two power configuration options authorized Siemens – 231 MW + 500 million British thermal units per hour (MMBtu/hr) duct burner GE – 210 MW + 349.2 MMBtu/hr duct burner	Carbon Monoxide	Oxidation catalyst	2	PPM	ROLLING 24-HR AVERAGE	

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Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
CLEAN ENERGY FUTURE - LORDSTOWN, LLC	CLEAN ENERGY FUTURE - LORDSTOWN, LLC	TRUMBULL	OH	8/25/2015	962 MW (gross winter output) combined cycle gas turbine (CCGT) facility	Initial installation permit for the construction of the Lordstown Energy Center - a nominal 940 MW combined cycle gas turbine (CCGT) facility.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	2725	MMBTU/H	Combined cycle combustion turbine (2,725 MMBtu/hr heat input turbine at ISO conditions and 179 MMBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. □ Limits and throughputs are for single turbine.	Carbon Monoxide	Good combustion controls and oxidation catalyst	14.3	LB/H	WITH DUCT BURNER. SEE NOTES.
MOXIE FREEDOM GENERATION PLANT	MOXIE FREEDOM LLC	LUZERNE	PA	9/1/2015	The Project is for the construction and operation of two identical 1 x 1 power blocks, each consisting of a combustion gas turbine (CGT or CT) and a steam turbine (ST) configured in single shaft alignment, where each CT and ST train share one common electric generator. The turbines to be used for this project are Two General Electric (GE) 7HA.02 CTs, each in 1 x 1 single shaft combined- cycle power islands. Each CT and duct burner will exclusively fire pipeline-quality natural gas. The HRSGs will be equipped with selective catalytic reduction (SCR) to minimize nitrogen oxide (NOx) emissions and oxidation catalysts to minimize carbon monoxide (CO) and volatile organic compound (VOC) emissions from the CTs and DBâ€™s. The Project will also include several pieces of ancillary equipment. The list of equipment includes: One fuel gas dew-point heater - natural gas fired, common for all CTs Two CT inlet evaporative coolers - one for each CT (not emissions sources) Two air-cooled condensers (ACCs) - one for each HRSG (not emissions sources) One auxiliary boiler, natural gas-fired One diesel engine powered emergency generator One diesel engine powered fire water pump Diesel fuel, lubricating oil, and aqueous ammonia storage tanks The project once operational will produce 1050 MW Electric Generation		Combustion Turbine With Duct Burner	15.21	Natural Gas	3727	MMBTu/hr	DLN burner, SCR, Oxidation Catalyst and shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice. shall install, certify, maintain and operate continuous emission monitoring systems (CEMS) for nitrogen oxides, carbon monoxide, carbon dioxide, and ammonia emissions on the exhaust of each combined-cycle powerblock. □ Emissions limits are for each combustion turbine/duct burner block.	Carbon Monoxide	Oxidation catalyst and good combustion practices	2	PPMDV @ 15% O2	
MOXIE FREEDOM GENERATION PLANT	MOXIE FREEDOM LLC	LUZERNE	PA	9/1/2015	The Project is for the construction and operation of two identical 1 x 1 power blocks, each consisting of a combustion gas turbine (CGT or CT) and a steam turbine (ST) configured in single shaft alignment, where each CT and ST train share one common electric generator. The turbines to be used for this project are Two General Electric (GE) 7HA.02 CTs, each in 1 x 1 single shaft combined- cycle power islands. Each CT and duct burner will exclusively fire pipeline-quality natural gas. The HRSGs will be equipped with selective catalytic reduction (SCR) to minimize nitrogen oxide (NOx) emissions and oxidation catalysts to minimize carbon monoxide (CO) and volatile organic compound (VOC) emissions from the CTs and DBâ€™s. The Project will also include several pieces of ancillary equipment. The list of equipment includes: One fuel gas dew-point heater - natural gas fired, common for all CTs Two CT inlet evaporative coolers - one for each CT (not emissions sources) Two air-cooled condensers (ACCs) - one for each HRSG (not emissions sources) One auxiliary boiler, natural gas-fired One diesel engine powered emergency generator One diesel engine powered fire water pump Diesel fuel, lubricating oil, and aqueous ammonia storage tanks The project once operational will produce 1050 MW Electric Generation		Combustion Turbine without Duct Burner	15.21		0			Carbon Monoxide	Oxidation catalyst, good engineering practice	2	PPMDV @ 15% O2	
LON C. HILL POWER STATION	LON C. HILL, L.P.	NUECES	TX	10/2/2015	The Lon C. Hill Power Station (LCHP) will include two natural gas-fired combined cycle combustion turbines (CTGs) equipped with dry low NOx burners (DLNs), heat recovery steam generators (HRSG), and natural gas-fired duct burners (DBs). Ancillary equipment includes evaporative coolers or inlet chillers, a single steam turbine (ST), auxiliary boiler, emergency generator, firewater pump, two cooling towers, oil water separator, degreaser, two diesel storage tanks, gasoline storage tank, selective catalytic reduction (SCR) and ammonia (NH3) handling systems including an NH3 storage tank, and two water tanks. The LCHP will be a 2x1 combined cycle power plant consisting of two CTGs, two HRSGs and one ST. The CTGs and ST will be one of two options: two Siemens SCC6-5000 CTGs and a SST6-5000 ST, or two General Electric 7FA CTGs and a D-11 ST.		Combined Cycle Turbines (>25 MW)	15.21	natural gas	195	MW	Two power configuration options authorized □ Siemens â€™ 240 MW + 250 million British thermal units per hour (MMBTu/hr) duct burner □ GE â€™ 195 MW + 670 MMBtu/hr duct burner	Carbon Monoxide	Oxidation Catalyst	2	PPM	ROLLING 24-HR AVERAGE

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
PSO COMANCHE POWER STATION	PUBLIC SERVICE COMPANY OF OKLAHOMA	COMANCHE	OK	10/8/2015	The facility is an electric utility plant, which burns natural gas to generate electricity. The Comanche Power Plant was constructed in 1971 and has operated continuously since that time without significant modification. The facility produces power using two Westinghouse gas combustion turbines(94 MW), Model W-501B, to supply a single steam turbine(120 MW). The turbines are fueled by Natural Gas and operate continuously.	American Electric Power (AEP) has requested a construction permit for their Comanche Power Station (SIC 4911, NAIC Code 221112) to install Dry Low-NOX burners (DLNB) to Units No. 1 and No. 2 to reduce emissions of NOX for the purpose of meeting Best Available Retrofit Technology (BART) requirements and Regional Haze Rule.	COMBINED CYCLE COMBUSTION TURBINE	15.21	NATURAL GAS	1250	MMBTUH	Two (2) turbines without duct burner that support one (1) steam turbine.	Carbon Monoxide	Controlled Startup and Shutdown procedures with respect to Dry Low NOx Burners.	0.0785	LB/MMBTU	3-HR AVG NORMAL OPERATION
FGE EAGLE PINES PROJECT	FGE EAGLE PINES, LLC	CHEROKEE	TX	11/4/2015	The FGEEP Project will include three natural gas-fired combined cycle (NGCC) power blocks, each block comprised of two gas-fired combustion turbines, two supplemental fired duct burners (DBs) heat recovery steam generators (HRSGs), and one steam turbine. FGEEP selected Alstom GT36 combustion turbines (CTs), each nominally rated at 321 megawatts (MW). Each HRSG is equipped with DBs that will have a maximum design heat input capacity of 799 million British thermal units per hour (MMBtu/hr). The CTs and DBs are fueled with pipeline quality natural gas. Each power block will also have a steam turbine generator designed to produce approximately 502 MW with the additional duct firing. Each of the three blocks will include the following ancillary equipment: one multi-cell condenser/cooling tower, one emergency generator, one firewater pump, two diesel storage tanks, and pressurized aqueous ammonia storage tanks.		Combined Cycle Turbines (>25 MW)	15.21	natural gas	321	MW	Alstom GT36 combustion turbines (321 MW)+ 799 million British thermal units per hour (MMBtu/hr) duct burner	Carbon Monoxide	Oxidation Catalyst	2	PPM	3-HR AVERAGE
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES - COLD STARTUP	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-8000H VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	Carbon Monoxide	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1772	LB/EVENT	COLD STARTUP
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-8000H VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST. □  HEAT RATE LIMITED TO 6,793 BTU/KWH (NET) AT ALL TIMES WHEN THE CTS/HRSGS ARE OPERATING (LHV). INITIAL COMPLIANCE WITH THE HEAT RATE LIMITATION SHALL BE DEMONSTRATED USING ASME PTC-46 TEST METHOD. ANNUAL THERMAL EFFICIENCY TEST CONDUCTED ACCORDING TO ASME PTC-46, OR ANOTHER METHODOLOGY APPROVED BY MDE-ARMA, AND COMPARE RESULTS TO DESIGN THERMAL EFFICIENCY VALUE. AN EXCEEDANCE OF THE HEAT RATE LIMIT IS NOT CONSIDERED A VIOLATION OF THIS PERMIT, BUT TRIGGERS A REQUIREMENT FOR MATTAWOMAN TO SUBMIT A MAINTENANCE PLAN TO MDE-ARMA WHICH SPECIFIES THE ACTIONS MATTAWOMAN PLANS TO TAKE IN ORDER TO ACHIEVE THE HEAT RATE LIMIT. THE PLAN SHALL INCLUDE A TIMEFRAME THAT THE HEAT	Carbon Monoxide	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	2	PPMVD @ 15% O2	3-HOUR BLOCK AVERAGE (EXCLUDING SU/SD)
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES - WARM STARTUP	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-8000H VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	Carbon Monoxide	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1461	LB/EVENT	WARM STARTUP
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES - HOT STARTUP	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-8000H VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	Carbon Monoxide	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	1216	LB/EVENT	HOT STARTUP

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MATTAWOMAN ENERGY CENTER	MATTAWOMAN ENERGY, LLC	PRINCE GEORGE'S	MD	11/13/2015	990 MW COMBINED-CYCLE NATURAL GAS-FIRED POWER PLANTNOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE)	NOTE: PARTICULATE MATTER FACILITYWIDE EMISSIONS ARE PARTICULATE MATTER (FILTERABLE). THE FACILITY INCLUDES A WET MECHANICAL DRAFT COOLING TOWER (12 CELL) with 0.0005% RECIRCULATING WATER FLOW.	2 COMBINED-CYCLE COMBUSTION TURBINES - SHUTDOWN	15.21	NATURAL GAS	286	MW	TWO SIEMENS H-CLASS (SGT-8000H VERSION 1.4-OPTIMIZED) COMBINED CYCLE COMBUSTION TURBINES (CTS) WITH A NOMINAL GENERATING CAPACITY OF 286 MW (EACH), COUPLED WITH A HEAT RECOVERY STEAM GENERATOR (HRSG) EQUIPPED WITH DUCT BURNERS, DRY LOW-NOX BURNERS, SCR, OXIDATION CATALYST	Carbon Monoxide	GOOD COMBUSTION PRACTICES AND OXIDATION CATALYST	156	LB/EVENT	SHUTDOWN
CPV TOWANTIC, LLC	CPV TOWANTIC, LLC	NEW HAVEN	CT	11/30/2015	805 MW Combined Cycle Power Plant		Combined Cycle Power Plant	15.21	Natural Gas	21200000	MMBtu/12 months		Carbon Monoxide	Oxidation Catalyst	0.9	PPMVD @15% O2	1 HR BLOCK
CPV TOWANTIC, LLC	CPV TOWANTIC, LLC	NEW HAVEN	CT	11/30/2015	805 MW Combined Cycle Plant		Combined Cycle Power Plant	15.21	Natural Gas	21200000	MMBtu/yr		Carbon Monoxide	Oxidation Catalyst	0.9	PPMVD @15% O2	1 HR BLOCK
LACKAWANNA ENERGY CTR/JESSUP	LACKAWANNA ENERGY CENTER, LLC	LACKAWANNA	PA	12/23/2015	This plan approval is for the construction and temporary operation of three (3) identical General Electric Model 7HA.02 natural gas fired combustion turbines and heat recovery steam generator with duct burners (CT/HRSG). Each CT/HRSG combined-cycle process block includes one (1) combustion gas turbine and one (1) heat recovery steam generator with duct burners with all three (3) CT/HRSG sharing one (1) steam turbine. The entire power block is rated at 1,500 MW. Additional equipment includes: one (1) 2,000 kW diesel-fired emergency generator one (1) 315 HP diesel-fired emergency fire water pump one (1) 184.8 MM BTU/hr natural gas fired boiler one (1) 12 MMBTU/hr natural gas fuel gas heater two (2) Diesel fuel storage tanks four (4) lubricating oil tanks one (1) aqueous ammonia storage tank		Combustion turbine with duct burner	15.21	Natural gas	3304.3	MMBtu/hr	Limits are for each CCCT and yearly limits are for cumulative turbine and duct burner. Duct burner throughput is 637.9 MMBtu/hr.	Carbon Monoxide	Oxidation catalyst, combustion controls, exclusive natural gas	2	PPMDV @ 15 % O2	
TENASKA PA PARTNERS/WESTMORE LAND GEN FAC	TENASKA PA PARTNERS LLC	WESTMORELAND	PA	2/12/2016	The plan approval will allow construction and temporary operation of a power plant is a single 2 on 1 combined cycle turbine configuration with 2 combustion turbines serving a single steam turbine generator equipped with heat recovery steam generator with supplemental 400MMBtu/hr natural gas fired duct burners. The approximate maximum plant nominal generating capacity is 930-1065 MW. Additional facilities will include 245 MMBtu/hr Auxiliary Boiler, one cooling tower, one diesel-fired emergency generator, and one diesel-fired emergency fire pump engine.	Application for plan approval 65-00990E received on 12/10/2015 from Tenaska to reduce the facility wide PTE authorized under plan approval 65-00990C based on revised emission information for startup and shutdown from the manufacturer.	Large combustion turbine	15.21	Natural Gas	0		This process entry is for operations with the duct burner. Limits entered are for each turbine.	Carbon Monoxide	Oxidation Catalyst and good combustion practice	15.9	LB/HR	3 HR AVERAGE
DECORDOVA STEAM ELECTRIC STATION	DECORDOVA II POWER COMPANY LLC	HOOD	TX	3/8/2016	The DeCordova Station will consist of two combustion turbine generators (CTGs) operating in simple cycle or combined cycle modes. The gas turbines will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE). Simple cycle operations limited to 2,500 hr/yr.	Carbon Monoxide	OXIDATION CATALYST	4	PPM	
OKEECHOBEE CLEAN ENERGY CENTER	FLORIDA POWER & LIGHT	OKEECHOBEE	FL	3/9/2016	Fossil-fueled power plant, consisting of a 3-on-1 combined cycle unit and auxiliary equipment. The combined cycle unit consists of three GE 7HA.02 turbines, each with nominal generating capacity of 350 MW. The total generating capacity for the combined cycle unit is 1,600 MW.	Technical evaluation of project available at <a href="http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin g_Authorization]">http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&amp;[guid=75.89000.1]&amp;[profile=Permittin g_Authorization]</a>	Combined-cycle electric generating unit	15.21	Natural gas	3096	MMBtu/hr per turbine	3-on-1 combined cycle unit. GE 7HA.02 turbines, approximately 350 MW per turbine. Total unit generating capacity is approximately 1,600 MW. Primarily fueled with natural gas. Permitted to burn the base load equivalent of 500 hr/yr per turbine on ULSD.	Carbon Monoxide	Clean burners that prevent CO formation	4.3	PPMVD@15% O2	3-HR AVERAGE, NATURAL GAS OPERATION

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
NECHES STATION	APEX TEXAS POWER LLC	CHEROKEE	TX	3/24/2016	either 4 simple cycle combustion turbine generators (CTGs) or two CTGs operating in simple cycle or combined cycle modes. The CTGs will be one of two options: Siemens or General Electric.		Combined Cycle & Cogeneration	15.21	natural gas	231	MW	2 CTGs to operate in simple cycle & combined cycle modes. 231 MW (Siemens) or 210 MW (GE) Simple cycle operations limited to 2,500 hr/yr.	Carbon Monoxide	OXIDATION CATALYST	4	PPM	HOURLY
JOHNSONVILLE COGENERATION	TENNESSEE VALLEY AUTHORITY	HUMPHREYS	TN	4/19/2016	Existing gas-fired combustion turbine with new heat recovery steam generator (HRSG) with duct burner and two new gas-fired auxiliary boilers.	Facility-wide emissions increases do not include decreases due to shutdown of coal-fired units.	Natural Gas-Fired Combustion Turbine with HRSG	15.21	Natural Gas	1339	MMBtu/hr	Turbine throughput is 1019.7 MMBtu/hr when burning natural gas and 1083.7 MMBtu/hr when burning No. 2 oil. Duct burner throughput is 319.3 MMBtu/hr. Duct burner firing will occur during natural gas combustion only.	Carbon Monoxide	Good combustion design and practices, oxidation catalyst	2	PPMVD @ 15% O2	30 UNIT-OPERATING-DAY MOVING AVERAGE
GREENSVILLE POWER STATION	VIRGINIA ELECTRIC AND POWER COMPANY	GREENSVILLE	VA	6/17/2016	The proposed project will be a new, nominal 1,600 MW combined-cycle electrical power generating facility utilizing three combustion turbines each with a duct-fired heat recovery steam generator (HRSG) with a common reheat condensing steam turbine generator (3 on 1 configuration). The proposed fuel for the turbines and duct burners is pipeline-quality natural gas.		COMBUSTION TURBINE GENERATOR WITH DUCT-FIRED HEAT RECOVERY STEAM GENERATORS (3)	15.21	natural gas	3227	MMBTU/HR	3227 MMBTU/HR CT with 500 MMBTU/HR Duct Burner, 3 on 1 configuration.	Carbon Monoxide	Oxidation Catalyst	1.6	PPMVD	3 HR AVG
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 COGT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: 0.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS 0.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas with Duct Burner	15.21	natural gas	4000	h/yr		Carbon Monoxide	Oxidation Catalyst and good combustion practices	2	PPMVD@15% O2	3 H ROLLING AV BASED ON ONE H BLOCK AV

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
MIDDLESEX ENERGY CENTER, LLC	STONEGATE POWER, LLC	MIDDLESEX	NJ	7/19/2016	NEW 633 MEGAWATT (MW) GROSS FACILITY CONSISTING OF 1.ONE GENERAL ELECTRIC (GE) 7HA.02 CCCT NOMINALLY RATED AT 380 MW AT ISO CONDITIONS WITHOUT DUCT FIRING WITH A MAXIMUM HEAT INPUT RATE OF: O.3,462 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING NATURAL GAS O.3,613 MMBTU/HR(HHV) AT (0) DEGREES F, 100% LOAD COMBUSTING ULSD WHICH WILL BE THE BACKUP FUEL OTHER EQUIPMENT INCLUDES: 2.ONE NATURAL GAS-FIRED DUCT BURNER (MAXIMUM HEAT INPUT OF 599 MMBTU/HR(HHV)) FOR SUPPLEMENTAL FIRING. 3.ONE 97.5 MMBTU/HR(HHV) NATURAL GAS FIRED AUXILIARY BOILER, EQUIPPED WITH LOW NOX BURNERS AND FLUE GAS RECIRCULATION FOR CONTROL OF NOX EMISSIONS; 4.ONE 2.25 MMBTU/HR(HHV), 327 BRAKE HORSEPOWER, ULSD FIRED EMERGENCY FIRE PUMP; 5.ONE 14.4 MMBTU/HR(HHV), APPROXIMATELY 1,500 KW ULSD FIRED EMERGENCY GENERATOR; AND 6.ONE 8-CELL, 124,800 GALLON PER MINUTE (GPM) MECHANICAL INDUCED DRAFT COOLING TOWER.		Combined Cycle Combustion Turbine firing Natural Gas without Duct Burner	15.21	Natural Gas	8040	H/YR		Carbon Monoxide	OXIDATION CATALYST AND GOOD COMBUSTION PRACTICES	2	PPMVD@15% O2	3 H ROLLING AV BASED ON ONE H BLOCK AV
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1A	15.21	Natural Gas	3625	MMBTU/hr		Carbon Monoxide	Catalytic Oxidation and good combustion practices during normal operations, and good combustion practices during startup/shutdown operations.	125.21	LB/H	HOURLY MAXIMUM
ST. CHARLES POWER STATION	ENTERGY LOUISIANA, LLC	ST. CHARLES	LA	8/31/2016	The St. Charles Power Station (SCPS) is a new electric power generating facility consisting of two (2) natural gas-fired combined cycle gas turbines, each with a heat recovery stem generator unit equipped with duct burners, and one (1) steam generator turbine. The SCPS will will have a predicted net nominal output of 980 MW at ISO conditions with supplemental duct firing.		SCPS Combined Cycle Unit 1B	15.21	Natural Gas	3625	MMBTU/hr		Carbon Monoxide	Catalytic oxidation and good combustion practices during normal operations, and good combustion practices during startup/shutdown operations.	125.21	LB/H	HOURLY MAXIMUM
CPV FAIRVIEW ENERGY CENTER	CPV FAIRVIEW, LLC	CAMBRIA	PA	9/2/2016	This plan approval authorizes CPV Fairview, LLC to construct and temporarily operate the Fairview Energy Center.  Air contamination sources and air cleaning devices authorized for construction and temporary operation under this plan approval include:  A combined cycle electric generating unit consisting of two (2) General Electric ("GE") 7HA.02 "H"-class combustion turbines each with maximum fuel type-based heat input of 3,338-MMBtu/hr (natural gas), 3,274-MMBtu/hr (ULSD), 3,199 MMBtu/hr (ethane blend), and equipped with dry low-NOx combustors and evaporative turbine intake cooling; two (2) heat recovery steam generators (HRSGs) each equipped with a low-NOx duct burner with maximum heat input of 425-MMBtu/hr, and a common steam turbine generator. Exhaust emissions from each combined cycle electric generating unit will be controlled by oxidation catalyst and selective catalytic reduction (SCR).  - One (1) up to 12-cell mechanical draft wet cooling tower with high-efficiency drift eliminator. - One (1) natural gas-fired auxiliary boiler with maximum heat input of 92.4 MMBtu/hr. - One (1) natural gas-fired dew point heater with maximum heat input of 12.8 MMBtu/hr. - One (1) natural gas-fired dew point heater with maximum heat input of 3.2 MMBtu/hr. - Two (2) 1,500-eKW diesel-fired emergency genset engines. One (1) 432-hhp diesel-fired fire water pump engine.		Combustion turbine and HRSG with duct burner NG only	15.21	Natural Gas	3338	MMBTu/hr	Emission limits are for each turbine operating with duct burner and do not include startup/shutdown emissions. Tons per year limits is a cumulative value for all three CCCT. CEMS for NOx, CO, and O2. Each CCCT and duct burner have 5 operational scenarios: 1 CCCT with duct burner fired - fueled by NG only 2 CCCT with duct burner fired - fueled by NG blend with ethane 3 CCCT without duct burner fired - fueled by NG only 4 CCCT without duct burner fired - fueled by NG blend with ethane 5 CCCT without duct burner fired - fueled by ULSD (Limited to emergency use only)	Carbon Monoxide	Oxidation catalyst operated at all steady state operating loads and good combustion practices	2	PPMDV @ 15% O2	

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines ( Combined-Cycle) - CO																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
SOUTH FIELD ENERGY LLC	SOUTH FIELD ENERGY LLC	COLUMBIANA	OH	9/23/2016	1150 MW combined-cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the South Field Energy facility, a nominal 1,150 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in Wellsville, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3131	MMBTU/H	Two identical combined cycle combustion turbine (3,131 MMBtu/hr heat input turbine at ISO conditions, natural gas firing with evaporative cooler on and 800 MMBtu/hr maximum heat input natural gas-fired duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), catalytic oxidizer, and wet injection for ULSD firing. Heat input for ULSD firing at ISO conditions, with evaporative cooler on is 3,173 MMBtu/hr. □  Throughputs and limits are for single turbine except as noted.	Carbon Monoxide	Good combustion controls and oxidation catalyst	18.57	LB/H	WITH DUCT BURNER. SEE NOTES.
HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	HOLLAND BOARD OF PUBLIC WORKS	OTTAWA	MI	12/5/2016	Natural gas combined heat and power plant.	Permit Number 107-13E revised Permit 107-13C as follows: □ □ 1) All ppmdv limits were changed to ppmvd in the CTGHRSG section for NOx, CO and VOC. □ Also, □ 2) The process notes for the natural gas emergency engine and the diesel fire pump emergency engine were revised as well. No other changes were made. As such, this RBLC entry includes the updated information as identified above.□ □ Additionally, this is an updated determination for this facility, which is still under construction and has not yet operated. The original RBLC determination for the facility is identified as MI-0412.	FGCTGHRSG (2 Combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	15.21	Natural gas	554	MMBTU/H, each	Two combined cycle natural gas fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period.	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	4	PPM	EACH EU; 24-H ROLL AVG EXCEPT
HOLLAND BOARD OF PUBLIC WORKS - EAST 5TH STREET	HOLLAND BOARD OF PUBLIC WORKS	OTTAWA	MI	12/5/2016	Natural gas combined heat and power plant.	Permit Number 107-13E revised Permit 107-13C as follows: □ □ 1) All ppmdv limits were changed to ppmvd in the CTGHRSG section for NOx, CO and VOC. □ Also, □ 2) The process notes for the natural gas emergency engine and the diesel fire pump emergency engine were revised as well. No other changes were made. As such, this RBLC entry includes the updated information as identified above.□ □ Additionally, this is an updated determination for this facility, which is still under construction and has not yet operated. The original RBLC determination for the facility is identified as MI-0412.	FGCTGHRSG--Startup/Shutdown (2 combined cycle CTGs with HRSGs; EUCTGHRSG10 & EUCTGHRSG11)	15.21	Natural gas	554	MMBTU/H; EACH	Two combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) (EUCTGHRSG10 & EUCTGHRSG11 in FGCTGHRSG). The total hours for both units combined for startup and shutdown shall not exceed 635 hours per 12-month rolling time period. □ □ This process group is to identify emission limits during startup and shutdown.	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	247.3	LB/H	OPERATING HOUR DURING STARTUP

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
INDECK NILES, LLC	INDECK NILES, LLC	CASS	MI	1/4/2017	Natural gas combined cycle power plant.	The permit includes equipment not entered into the RBLCL due to a lack of emission limits or material limits; these include a cold cleaner, a number of space heaters, and two fuel tanks.	FGCTGHRSG (2 Combined Cycle CTGs with HRSGs)	15.21	Natural gas	8322	MMBTU/H	There are 2 combined cycle natural gas-fired combustion turbine generators (CTGs) with heat recovery steam generators (HRSG) identified as EUCTGHRSG1 & EUCTGHRSG2 in the flexible group FGCTGHRSG. The total hours for startup and shutdown for each train shall not exceed 500 hours per 12-month rolling time period.  The throughput capacity is 3421 MMBTU/H for each turbine, and 740 MMBTU/H for each duct burner for a combined throughput of 4161 MMBTU/H or 8322 MMBTU/H for both trains.	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	24.7	LB/H	24-H ROLLING AVG
HILLTOP ENERGY CENTER, LLC	HILLTOP ENERGY CENTER, LLC	GREENE	PA	4/12/2017	The project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST).  One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst.  One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler.  One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater.  One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine.  One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine.  Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators.  One (1) 3,000 gallon emergency generator diesel storage tank.  One (1) 500 gallon firewater pump diesel storage tank.  One (1) 35,000 gallon 19% aqueous ammonia storage tank.  Lubricating oil storage tanks.  Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	The project consists of a single power block in a one-on-one (1x1), combined cycle, single shaft configuration, including a combustion turbine (CT) and heat recovery steam generator (HRSG) with a steam turbine (ST).  One (1) 3,509 MMBtu/hr General Electric International, Inc. (GE) model no. GE 7HA.02 natural gas-fired combined cycle combustion turbine equipped with a heat recovery steam generator (HRSG) with supplemental 981.4 MMBtu/hr natural gas fired duct burners; controlled by selective catalytic reduction and oxidation catalyst.  One (1) 42 MMBtu/hr natural gas-fired auxiliary boiler.  One (1) 6.4 MMBtu/hr natural gas-fired fuel gas heater.  One (1) 2.95 MMBtu/hr, 422 hp diesel-fired emergency firewater pump engine.  One (1) 18.77 MMBtu/hr, 2,682 hp diesel-fired emergency generator engine.  Eight-cell, mechanical draft, evaporative cooling tower controlled by drift eliminators.  One (1) 3,000 gallon emergency generator diesel storage tank.  One (1) 500 gallon firewater pump diesel storage tank.  One (1) 35,000 gallon 19% aqueous ammonia storage tank.  Lubricating oil storage tanks.  Miscellaneous components in natural gas service, and SF6 containing circuit breakers; controlled by leak detection and repair (LDAR).	Combustion Turbine without Duct Burner	15.21	Natural Gas	3509	MMBTu/hr	Carbon Monoxide	Oxidation Catalyst	2	PPMDV	CORRECTED TO 15% O2	
GAINES COUNTY POWER PLANT	SOUTHWESTERN PUBLIC SERVICE COMPANY		TX	4/28/2017	constructed in phases, with natural gas-fired simple cycle combustion turbines (SCCTs) with dry low nitrogen oxide (NOx) burners (DLN) to be converted into 2-on-1 combined cycle combustion turbines (CCCTs) with selective catalytic reduction (SCRs), heat recovery steam generators (HRSGs, one per combustion turbine) and one steam turbine per two CCCTs. Federal control review only applies to the turbines and HRSGs.		Combined Cycle Turbine with Heat Recovery Steam Generator, fired Duct Burners, and Steam Turbine Generator	15.21	NATURAL GAS	426	MW	Four Siemens SGT6-5000F5 natural gas fired combustion turbines with HRSGs and Steam Turbine Generators	Carbon Monoxide	Selective Catalytic Reduction (SCR) and Dry Low NOx burners	2	PPMVD	15% O2 3-H AVG
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/o Duct Firing	15.21	Natural Gas	2969	MMBTu/hr	Throughput is for turbine only	Carbon Monoxide	Oxidation Catalyst	0.9	PPMVD @15% O2	1 HOUR BLOCK
KILLINGLY ENERGY CENTER	NTE CONNECTICUT, LLC	WINDHAM	CT	6/30/2017	550 MW Combined Cycle Plant		Natural Gas w/Duct Firing	15.21	Natural Gas	2639	MMBTu/hr	Duct burner MRC is 946 MMBtu/hr	Carbon Monoxide	Oxidation Catalyst	1.7	LB/MMBTU	1 HOUR BLOCK

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
TRUMBULL ENERGY CENTER	TRUMBULL ENERGY CENTER	TRUMBULL	OH	9/7/2017	940 MW combined cycle gas turbine (CCGT) facility	Permit-to-install for the construction of the Trumbull Energy Center, a nominal 940 megawatt (MW) combined cycle gas turbine (CCGT) facility to be located in the Village of Lordstown, Ohio.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3025	MMBTU/H	Two identical combined cycle combustion turbine (3,025 mmBtu/hr heat input turbine at ISO conditions and 237 mmBtu/hr heat input duct burner) with dry low NOx combustors, selective catalytic reduction (SCR), and catalytic oxidizer. Throughputs and limits are for single turbine except as noted.	Carbon Monoxide	Good combustion controls and oxidation catalyst	15.5	LB/H	WITH DUCT BURNER. SEE NOTES.
OREGON ENERGY CENTER	OREGON ENERGY CENTER	LUCAS	OH	9/27/2017	Combined cycle gas turbine (CCGT) facility	Installation of natural gas-fired combined cycle combustion turbine power plant.	Combined Cycle Combustion Turbines (two, identical) (P001 and P002)	15.21	Natural gas	3055	MMBTU/H	Combined cycle combustion turbine (3,055 mmBtu/hr heat input turbine at ISO conditions and 221.3 mmBtu/hr heat input duct burner) with dry low NOX combustors, selective catalytic reduction (SCR), and catalytic oxidation. All heat values are on a HHV basis. □ Throughputs and limits are for single turbine except as noted.	Carbon Monoxide	oxidation catalyst and good combustion control	15.5	LB/H	WITH DUCT BURNER. SEE NOTES.
GUERNSEY POWER STATION LLC	GUERNSEY POWER STATION LLC	GUERNSEY	OH	10/23/2017	1,650 MW combined cycle combustion turbine electrical generating facility	Installation PTI for a new 1,650 MW combined cycle natural-gas fired turbine plant and associated auxiliary boiler, firewater pumps, emergency generators and fuel gas heaters	Combined Cycle Combustion Turbines (3, identical) (P001 to P003)	15.21	Natural gas	3516	MMBTU/H	Three identical Combustion Turbines; GE 7HA.02 natural gas-fired lean pre-mix combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,516 MMBtu/hr HHV at 100% load and -18Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 997 MMBtu/hr HHV controlled with catalytic oxidation and selective catalytic reduction (SCR) and cooled with an air-cooled condenser (ACC) used to generate electricity. Throughputs and limits are for a single turbine except as noted.	Carbon Monoxide	oxidation catalyst and good combustion practices as recommended by the manufacturer	20.76	LB/H	WITH DUCT BURNER. SEE NOTES.
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □ The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	General Electric Combustion Turbine (P004)	15.21	Natural gas	3544	MMBTU/H	General Electric model 7HA.02 natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,544 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity. □ The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	Carbon Monoxide	Oxidation catalyst and good combustion practices as recommended by the manufacturer.	15.9	LB/H	EXCEPT STARTUP AND SHUTDOWN. SEE NOTES
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower. □ The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	Mitsubishi Combustion Turbine (P005)	15.21	Natural gas	3320	MMBTU/H	Mitsubishi Model 501JAC natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,320 MMBtu/hr at 100% load and -5Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 108 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □ The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.	Carbon Monoxide	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	15.3	LB/H	WITH DUCT BURNER. SEE NOTES.

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	LONG RIDGE ENERGY GENERATION LLC - HANNIBAL POWER	MONROE	OH	11/7/2017	Combined cycle combustion turbine power generation facility	<p>Initial installation permit for a 485 MW combined cycle electric generating facility in Monroe County. The emissions units include a combustion turbine with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, emergency fire pump engine, and an eight-cell mechanical draft low-mist wet cooling tower.□</p> <p>□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Siemens Combustion Turbine (P006)	15.21	Natural gas	3602	MMBTU/H	<p>Siemens Model SCC6-8000H natural gas or natural gas+ethane fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,602 MMBtu/hr at 100% load and -5Å° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 667 MMBtu/hr controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity.□</p> <p>□</p> <p>The Project will use either a GE Model 7HA.02 (P004), Mitsubishi Model 501JAC (P005) or Siemens Model SCC6-8000H (P006) combustion turbine (CT) with duct firing in the HRSG to increase steam generation in the steam turbine. Only one turbine will be built but each of these turbines are included in this RBLC entry.</p>	Carbon Monoxide	oxidation catalyst and shall operate the emissions unit in accordance with good combustion practices as recommended by the manufacturer	16.5	LB/H	WITH DUCT BURNER. SEE NOTES.
FILER CITY STATION	FILER CITY STATION LIMITED PARTNERSHIP	MANISTEE	MI	11/17/2017	New natural gas combined heat and power plant proposed at existing cogenerating power plant permitted to burn wood, coal and tire derived fuel.		EUCCT (Combined cycle CTG with unfired HRSG)	15.21	Natural gas	1934.7	MMBTU/H	A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	4	PPM	24-H ROLL.AVG., EXCEPT STARTUP/SHUTDOWN
FILER CITY STATION	FILER CITY STATION LIMITED PARTNERSHIP	MANISTEE	MI	11/17/2017	New natural gas combined heat and power plant proposed at existing cogenerating power plant permitted to burn wood, coal and tire derived fuel.		EUCCT (Startup/Shutdown)	15.21	Natural gas	1934.7	MMBTU/H	<p>This emission unit is being entered as a separate process to account for the emission limits associated with startup/shutdown events, which could not be included within the previous EUCCT original process name.□</p> <p>□</p> <p>A 1,934.7 MMBTU/H natural gas fired heavy frame industrial combustion turbine. The turbine operates in combined-cycle with an unfired heat recovery steam generator (HRSG).</p>	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	1580	POUNDS	POUNDS PER EVENT

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
DANIA BEACH ENERGY CENTER	FLORIDA POWER AND LIGHT COMPANY	BROWARD	FL	12/4/2017	1200 megawatt 2-on-1 combined cycle facility, natural gas-fired, with limited ULSD use. GE 7HA turbines	Technical evaluation available at <a href="https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP">https://arm-permit2k.dep.state.fl.us/nontv/0110037.017.AC.D.ZIP</a>	2-on-1 combined cycle unit (GE 7HA)	15.21	Natural gas	4000	MMBtu/hr	Two nominal 430 MW combustion turbines, coupled to a steam turbine generator	Carbon Monoxide	Clean burning fuel with lean pre-mix turbines	4.3	PPMVD@15% O2	AT LOADS > 90%
TVA - JOHNSONVILLE COGENERATION	TENNESSEE VALLEY AUTHORITY	HUMPHREYS	TN	2/1/2018	Combustion turbines and combined cycle plant	Permit 972969 adds startup and shutdown limits to the requirements established in PSD permit 970816F.	Dual-fuel CT and HRSG with duct burner	15.21	Natural Gas	1020	MMBtu/hr	Rated input capacity is 1020 MMBtu/hr (CT) and 319 MMBtu/hr (duct burner) when burning natural gas and 1084 MMBtu/hr when burning #2 oil.	Carbon Monoxide	Oxidation catalyst, good combustion design & practice	2	PPMVD @ 15% O2	30-DAY AVG WHEN BURNING NATURAL GAS
HARRISON COUNTY POWER PLANT	ESC HARRISON COUNTY POWER, LLC	HARRISON	WV	3/27/2018	Nominal 640 mWe natural gas-fired combined-cycle power plant.  Small sources: Emergency Generator, Fire Water Pump, Fuel Gas Heater not included in RBLC - may request info or see permit for details.		GE 7HA.02 Turbine	15.21	Natural Gas	3496.2	mmBtu/hr	Nominal 640 mWe All emission limits steady-state and include 1000 mmBtu/hr Duct Burner in operation Short Term startup and shutdown limits in lb/event given in permit.	Carbon Monoxide	Oxidation Catalyst, Good Combustion Practices	20	LB/HR	1-HOUR AVERAGE
MONTGOMERY COUNTY POWER STATIOIN	ENTERGY TEXAS INC	MONTGOMERY	TX	3/30/2018			Combined Cycle Turbine	15.21	NATURAL GAS	2635	MMBTU/HR/UNIT	Two Mitsubishi M501GAC turbines (without fast start)	Carbon Monoxide	OXIDATION CATALYST	2	PPMVD	15% O2 3 HOUR AVERAGE
MONTGOMERY COUNTY POWER STATIOIN	ENTERGY TEXAS INC	MONTGOMERY	TX	3/30/2018			COMBINED CYCLE TURBINE MSS REDUCED LOAD	15.21	NATURAL GAS	0		9 HOURS STARTUP, 1 HOUR SHUTDOWN	Carbon Monoxide	minimizing duration of startup / shutdown events, engaging the pollution control equipment as soon as practicable (based on vendor recommendations and guarantees), and meeting the emissions limits on the MAERT	8000	LB/H	
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine.  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5	General Electric (GE) Combustion Turbines (P005 & P006)	15.21	Natural gas	3459.6	MMBTU/H	Two identical GE Combustion Turbines 1 and 2; GE model 7HA.02 natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,459.6 MMBtu/hr (HHV) at 100% load and -2Â° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 570.45 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate additional electricity.  The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001).  Limits and throughputs are for single turbine except as noted.	Carbon Monoxide	Good combustion practices and oxidation catalyst	17.9	LB/H	WITH DUCT BURNER. SEE NOTES.

Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO

Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
HARRISON POWER	HARRISON POWER	HARRISON	OH	4/19/2018	1000 MW natural gas-fired combined cycle combustion turbine plant	<p>Initial installation permit for a 1000 MW combined cycle electric generating facility in Harrison County that includes two (2) combustion turbines with a heat recovery stream generator (HRSG) and duct burners, auxiliary boiler, emergency diesel generator engine, and emergency fire pump engine. □</p> <p>The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). The facility-wide pollutants table below is for the GE turbines. The Mitsubishi emissions are as follows: PM10/2.5 155.2, SO2 59.2, NOx 249.9, CO 219.7, VOC 169.5</p>	Mitsubishi Hitachi Power Systems (MHPS) Combustion Turbines (P007 & P008)	15.21	Natural gas	3231	MMBTU/H	<p>Two identical MHPS Combustion Turbines 1 and 2; Mitsubishi Model M501JAC natural gas-fired combined cycle combustion turbine generator equipped with dry low-NOx (DLN) burners nominally rated at 3,231 MMBtu/hr (HHV) at 100% load and 51A° F exhausting through a heat recovery steam generator (HRSG) with supplemental natural gas-fired duct burners nominally rated at 306 MMBtu/hr (HHV) controlled with catalytic oxidation and selective catalytic reduction (SCR) used to generate electricity. □</p> <p>The permit includes the option to install either General Electric turbines (with 80 MMBTU aux boiler B002) or Mitsubishi turbines (with 44.55 MMBTU aux boiler B001). □</p> <p>Limits and throughputs are for single turbine except as noted.</p>	Carbon Monoxide	Good combustion practices and oxidation catalyst	17.1	LB/H	WITH DUCT BURNER. SEE NOTES.
PALMDALE ENERGY PROJECT	PALMDALE ENERGY, LLC	LOS ANGELES	CA	4/25/2018	645 MW (nominal) Natural Gas-fired Combined Cycle Power Plant, 2 x 1 configuration, auxiliary boiler for faster startup	<p>See also docket: <a href="https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473">https://www.regulations.gov/docket?D=EPA-R09-OAR-2017-0473</a>. □</p> <p>Permit decision was appealed to EPA's Environmental Appeals Board. Board denied review on October 23, 2018. Information available through <a href="http://www.epa.gov/eab">www.epa.gov/eab</a> and <a href="https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument">https://yosemite.epa.gov/oa/EAB_Web_Docket.nsf/f22b4b245fab46c6852570e6004df1bd/ad735c0b822500258525829d004217eb!OpenDocument</a>. □</p> <p>1/31/20 -- SYS MGR -- Link to permit is &lt;<a href="https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028">https://www.regulations.gov/document?D=EPA-R09-OAR-2017-0473-0028</a>&gt;</p>	Combustion Turbines (GEN1 and GEN2)	15.21	Natural Gas	2217	MMBTU/H	<p>Each combustion turbine rated at 214 MW, with a □ maximum heat input rate of 2,217 MMBtu/H (HHV, at ISO □ conditions); natural gas-fired Siemens SGT6-5000F; each vents to □ dedicated Heat Recovery Steam Generator and a shared 276 □ MW Steam Turbine Generator; 160-ft □ stack height; 22-ft stack diameter</p>	Carbon Monoxide	Oxidation Catalyst	1.5	PPM @ 15% O2	1-HR, DEMO LIMIT, W/O DUCT FIRING
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	<p>The permit was written with two options for the turbines: □</p> <p>Option 1 - GE 7HA.02 □</p> <p>Option 2 - Siemens SGT6-8000H □</p> <p>Facility Wide Pollutants for Siemens: □</p> <p>CO: 293.5 □</p> <p>NOx: 295.8 □</p> <p>PM: 253.8 □</p> <p>SOx: 39.3 □</p> <p>VOC: 113.7</p>	GE Combustion Turbine - Option 1 - Normal Operation	15.21	natural gas	34000	MMCF/YR	<p>Option 1: □</p> <p>Two on one configuration: 3,482 MMBtu/hr combustion turbine with 475 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.</p>	Carbon Monoxide	Oxidation catalyst and good combustion practices	1	PPMVD@ 15% O2	3 HR AV/WITHOUT DB
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	<p>The permit was written with two options for the turbines: □</p> <p>Option 1 - GE 7HA.02 □</p> <p>Option 2 - Siemens SGT6-8000H □</p> <p>Facility Wide Pollutants for Siemens: □</p> <p>CO: 293.5 □</p> <p>NOx: 295.8 □</p> <p>PM: 253.8 □</p> <p>SOx: 39.3 □</p> <p>VOC: 113.7</p>	Siemens Combustion Turbine - Option 2 - Normal Operation	15.21	Natural Gas	35000	MMCF/YR	<p>Option 2: □</p> <p>Two on one configuration: 3,116 MMBtu/hr combustion turbine with 991 MMBtu/hr duct-fired HRSG. Emission limits reflect the operation of one turbine with or without duct firing.</p>	Carbon Monoxide	Oxidation catalyst & good combustion practice	1.8	PPMVD @ 15% O2	3 H AV/WITH OR WITHOUT DB
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	<p>The permit was written with two options for the turbines: □</p> <p>Option 1 - GE 7HA.02 □</p> <p>Option 2 - Siemens SGT6-8000H □</p> <p>Facility Wide Pollutants for Siemens: □</p> <p>CO: 293.5 □</p> <p>NOx: 295.8 □</p> <p>PM: 253.8 □</p> <p>SOx: 39.3 □</p> <p>VOC: 113.7</p>	GE Combustion Turbine - Tuning & Water Washing	15.21	natural gas	34000	MMCF/YR	Alternative operating scenario: during periods of tuning and water washing	Carbon Monoxide	Oxidation catalyst and good combustion practices	194	LB/TURBINE/ DAY	24 HR AV

Appendix D - RBLC Search Results Oglethorpe Power Corporation																	
Table D-3. RBLC Search Results for Large Natural Gas Fired Turbines (Combined-Cycle) - CO																	
Facility Name	Corporate or Company Name	Facility County	Facility State	Permit Issuance Date	Facility Description	Permit Notes	Process Name	Process Type	Primary Fuel	Throughput	Throughput Units	Process Notes	Pollutant	Control Method Description	Emission Limit	Emission Limit Unit	Emission Limit 1 Average Time Condition
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: <input type="checkbox"/> Option 1 - GE 7HA.02 <input type="checkbox"/> Option 2 - Siemens SGT6-8000H <input type="checkbox"/> Facility Wide Pollutants for Siemens: <input type="checkbox"/> CO: 293.5 <input type="checkbox"/> NOx: 295.8 <input type="checkbox"/> PM: 253.8 <input type="checkbox"/> SOx: 39.3 <input type="checkbox"/> VOC: 113.7	GE Combustion Turbine - Startup and Shutdown	15.21	natural gas	34000	MMCF/YR	Startup and Shutdown	Carbon Monoxide	Oxidation catalyst and good combustion practice	840	LB/TURBINE/ EVENT	COLD START 60 MIN OR LESS
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: <input type="checkbox"/> Option 1 - GE 7HA.02 <input type="checkbox"/> Option 2 - Siemens SGT6-8000H <input type="checkbox"/> Facility Wide Pollutants for Siemens: <input type="checkbox"/> CO: 293.5 <input type="checkbox"/> NOx: 295.8 <input type="checkbox"/> PM: 253.8 <input type="checkbox"/> SOx: 39.3 <input type="checkbox"/> VOC: 113.7	Siemens Combustion Turbine - Tuning & Water Washing	15.21	Natural Gas	35000	MMCF/YR	Alternative operating scenario: during periods of tuning and water washing	Carbon Monoxide	Oxidation catalyst and good combustion practices	309	LB/TURBINE/ DAY	24 HR AV
C4GT, LLC	NOVI ENERGY	USA	VA	4/26/2018	Natural gas-fired combined cycle power plant	The permit was written with two options for the turbines: <input type="checkbox"/> Option 1 - GE 7HA.02 <input type="checkbox"/> Option 2 - Siemens SGT6-8000H <input type="checkbox"/> Facility Wide Pollutants for Siemens: <input type="checkbox"/> CO: 293.5 <input type="checkbox"/> NOx: 295.8 <input type="checkbox"/> PM: 253.8 <input type="checkbox"/> SOx: 39.3 <input type="checkbox"/> VOC: 113.7	Siemens Combustion Turbine - Startup & Shutdown	15.21	Natural Gas	35000	MMCF/YR	Startup and Shutdown	Carbon Monoxide	Oxidation catalyst and good combustion practices	434	LB/TURBINE/ EVENT	COLD START 55 MIN OR LESS
MEC NORTH, LLC AND MEC SOUTH LLC	MARSHALL ENERGY CENTER LLC	CALHOUN	MI	6/29/2018	Natural gas combined cycle power plant (two plants: north and south)	There are two plants that will operate as separate entities and each received a separate Air Permit to Install, but they are considered one stationary source and were reviewed as one project.	EUCTGHRSG (South Plant): A combined cycle natural gas-fired combustion turbine generator with heat recovery steam generator.	15.21	Natural gas	500	MW	A combined-cycle natural gas-fired combustion turbine generator (CTG) with heat recovery steam generator (HRSG) in a 1x1 configuration with a steam turbine generator (STG) for a nominal 500 MW electricity production. The CTG is a H-class turbine with a rating of 3,080 MMBTU/H (HHV). The HRSG is equipped with a natural gas-fired duct burner rated at 755 MMBTU/H (HHV) at ISO conditions to provide heat for additional steam production. The HRSG is not capable of operating independently from the CTG. The CTG/HRSG is equipped with dry low NOx burner (DLNB), SCR and an oxidation catalyst.	Carbon Monoxide	Oxidation catalyst technology and good combustion practices.	4	PPMV	AT 15%O2; 240HR ROLL AVG; NOT S.S.