2018 Emission Inventory
Southwest Clean Air Agency

11815 NE 99th Street, Suite 1294, Vancouver, WA 98682-2322
Voice: (360) 574-3058 Fax: (360) 576-0925

Facility Name ~~PacifiCorp Energy~~ LLC Rocky Mountain Power
Chehalis Generating Facility

SWCAA ID No. **1900**
EPA EIS ID No. **9091111**
AIRS Plant No. **053-041-00005**
SWCAA Inspector Clint Lamoreaux

Physical Address	Mailing Address
1813 Bishop Road Chehalis, WA 98532	1813 Bishop Rd Chehalis, WA 98532

Facility Contact and Title: Mr. Jeremy Smith, Environmental Analyst

Phone: 360-827-6471
Fax: 360-740-1891
E-mail: Jeremy.Smith@PacifiCorp.com

Unified Business Identifier (UBI): ~~601-047-276~~ 409-000-070

Standard Industrial Classification (SIC)	North American Industry Classification System (NAICS)
4911: ELECTRIC SERVICES	221112: Fossil Fuel Electric Power Generation

Geographical Coordinates:		UTM Coordinates:		
Latitude:	46° 37' 20.550"	Vertical:	5163205.0	Zone: 10
Longitude:	122° 54' 51.470"	Horizontal:	506561.4	

Emissions for 2018

	Tons per Year
Nitrogen Oxides (NOx):	70.15
Carbon Monoxide (CO):	25.33
Volatile Organic Compounds (VOC):	6.52
Sulfur Dioxide (SO_2):	6.54
Lead (Pb):	Not Applicable
Particulate Matter (PM):	47.52
Particulate Matter (PM_{10}):	47.52
Particulate Matter ($PM_{2.5}$):	47.52
Ammonia (NH_3):	10.53
Ozone (O_3):	Not Applicable
	Pounds per Year
Toxic Air Pollutants (TAP):	1,977.26
Hazardous Air Pollutants (HAP):	32,629.56

CERTIFICATION OF DATA ACCURACY
Consistent with SWCAA 400-100(2)(c), I certify as the owner, operator, or designated representative, that the data presented here and in the accompanying forms is accurate to the best of my knowledge.

P7545

Signature

Mark A. Miller

Printed Name and Title

3/12/2019

Date

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Release Point Information

Local & EPA IDs	Release Point	Release Point Description	Release Point Type	Stack Height	Stack Diameter	Stack Flow Rate	Stack O_2	Stack H_2O	Release Point Temp	Fugitive Release Height	Release Point Latitude and Longitude
243 *51113012*	01	Combustion turbine generator 1 - nat gas/ox cat/SCR stack	Stack Release	149 ft 11-3/16 in	19 ft 4 in	1,248,435 acfm	15 %	6 %	245 °F		46° 37' 21.090" 122° 54' 52.480"
244 *58406912*	02	Combustion turbine generator 2 - nat gas/ox cat/SCR stack	Stack Release	149 ft 11-3/16 in	19 ft 4 in	1,262,510 acfm	15 %	6 %	245 °F		46° 37' 19.880" 122° 54' 52.460"
7334 *86425412*	03	Startup boiler - Cleaver Brooks low NOx burner stack	Stack Release	88 ft 1-1/2 in	2 ft 6 in	5,490 acfm	3 %	15 %	383 °F		46° 37' 18.170" 122° 54' 58.460"

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Emission Unit Information

Local & EPA IDs	Emission Unit	Emission Unit Description	EPA Emission Unit Classification	Maximum Design Capacity (Fuel Burning Equipment Only)	Emission Unit Comment
2839 *55096613*	01	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/SCR stack	120: Turbine	2067 MMBtu/hr	
2840 *55096713*	02	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/SCR stack	120: Turbine	2067 MMBtu/hr	
17496 *90422013*	03	Startup boiler low Nox burner - Cleaver Brooks stack	100: Boiler	16.9 MMBtu/hr	

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Emission Process – Operational Schedule

Local & EPA IDs	Emission Unit & Process	Process Description	Operation by Season				Typical Operating Schedule			Actual Operating Hours for 2018	Process Comment
			% Jan-Mar	% Apr-Jun	% Jul-Sep	% Oct-Dec	Hours per Day	Days per Week	Weeks per Year		
2866 *71808414*	01 – 01	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack nat gas	26.15	17.07	48.58	8.20	24	7	50	4073.0	
26522 *88398414*	01 – 02	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack diesel	0	0	0	0	0	0	0	0.0	
2864 *71808514*	02 – 01	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack nat gas	21.80	21.38	43.97	12.85	24	7	50	4926.5	
26523 *88398514*	02 – 02	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack diesel	0	0	0	0	0	0	0	0.0	
17659 *122612014*	03 – 01	Startup boiler low NOx burner - Cleaver Brooks stack nat gas	35.63	27.95	6.17	30.24	24	7	50	5981.0	

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Emission Process – Production Details

Local & EPA IDs	Emission Unit & Process	Process Description	Source Classification Code	Annual Production/Rate for 2018		Maximum Hourly Production/Rate for 2018		Fuel Information: Sulfur and Ash Content in Liquid and Solid Fuels		Fuel Information: Fuel Heat Content
2866 *71808414*	01 – 01	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack nat gas	2-01-002-01	5358.4	Million Cubic Feet of Natural Gas Burned/YR	1.64	Million Cubic Feet of Natural Gas Burned/HR	17.9 ppm	N/A	1070.9 BTU/SCF
26522 *88398414*	01 – 02	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack diesel	2-01-001-09	0	1000 Gallons of Fuel Oil Burned/YR	0	1000 Gallons of Fuel Oil Burned/HR	15 ppm	N/A	137000 BTU/GAL
2864 *71808514*	02 – 01	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack nat gas	2-01-002-01	6440.5	Million Cubic Feet of Natural Gas Burned/YR	1.63	Million Cubic Feet of Natural Gas Burned/HR	17.9 ppm	N/A	1070.9 BTU/SCF
26523 *88398514*	02 – 02	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack diesel	2-01-001-09	0	1000 Gallons of Fuel Oil Burned/YR	0	1000 Gallons of Fuel Oil Burned/HR	15 ppm	N/A	137000 BTU/GAL
17659 *122612014*	03 – 01	Startup boiler low NOx burner - Cleaver Brooks stack nat gas	1-02-006-02	54.59	Million Cubic Feet of Natural Gas Burned/YR	0.00002	Million Cubic Feet of Natural Gas Burned/HR	17.9 ppm	N/A	1070.9 BTU/SCF

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Emission Process – Criteria Pollutant Emissions

Local & EPA IDs	Emission Unit & Process	Process Description	PM (TSP)		PM_{10}		$PM_{2.5}$		VOC		NOx		CO		SO_2	
			Est. Code	2018 TPY	Est. Code	2018 TPY	Est. Code	2018 TPY	Est. Code	2018 TPY	Est. Code	2018 TPY	Est. Code	2018 TPY	Est. Code	2018 TPY
2866 *71808414*	01 – 01	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack nat gas	4	26.43	4	26.43	4	26.43	4	2.94	1	33.19	1	12.53	3	3.01
26522 *88398414*	01 – 02	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack diesel	8	0	8	0	8	0	8	0	1	0	1	0	3	0
2864 *71808514*	02 – 01	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack nat gas	4	20.79	4	20.79	4	20.79	4	3.47	1	36.64	1	12.78	3	3.51
26523 *88398514*	02 – 02	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack diesel	8	0	8	0	8	0	8	0	1	0	1	0	3	0
17659 *122612014*	03 – 01	Startup boiler low NOx burner - Cleaver Brooks stack nat gas	11	0.30	11	0.30	11	0.30	11	0.12	4	0.32	4	0.02	3	0.03

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Emission Process – Toxic Pollutant Emissions

Local & EPA IDs	Emission Unit & Process	Process Description
2866 *71808414*	01 – 01	Gas comb turbine gen 1 (CT1) - GE 7FA - cat ox/scr stack nat gas

CAS Number	Pollutant Name	HAP?	Est. Code	2018 Emissions	
106-99-0	1,3-BUTADIENE	Yes	8	0.38	LB/YR
75-07-0	ACETALDEHYDE	Yes	8	35.24	LB/YR
107-02-8	ACROLEIN	Yes	8	5.64	LB/YR
7664-41-7	AMMONIA	No	1	9020.40	LB/YR
71-43-2	BENZENE	Yes	8	10.57	LB/YR
100-41-4	ETHYL BENZENE	Yes	8	28.19	LB/YR
50-00-0	FORMALDEHYDE	Yes	8	625.44	LB/YR
91-20-3	NAPHTHALENE	Yes	8	1.15	LB/YR
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	Yes	8	1.94	LB/YR
75-56-9	PROPYLENE OXIDE	Yes	8	25.55	LB/YR
7664-93-9	SULFURIC ACID	No	4	4510.50	LB/YR
108-88-3	TOLUENE	Yes	8	114.52	LB/YR
1330-20-7	XYLENE (m-, o-, p-isomers - sum of isomers)	Yes	8	56.38	LB/YR

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Emission Process – Toxic Pollutant Emissions

Local & EPA IDs	Emission Unit & Process	Process Description
2864 *71808514*	02 – 01	Gas comb turbine gen 2 (CT2) - GE 7FA - cat ox/scr stack nat gas

CAS Number	Pollutant Name	HAP?	Est. Code	2018 Emissions	
106-99-0	1,3-BUTADIENE	Yes	8	0.4	LB/YR
75-07-0	ACETALDEHYDE	Yes	8	41.6	LB/YR
107-02-8	ACROLEIN	Yes	4	6.7	LB/YR
7664-41-7	AMMONIA	No	1	11060.9	LB/YR
71-43-2	BENZENE	Yes	8	12.5	LB/YR
100-41-4	ETHYL BENZENE	Yes	8	33.3	LB/YR
50-00-0	FORMALDEHYDE	Yes	8	730.2	LB/YR
91-20-3	NAPHTHALENE	Yes	8	1.4	LB/YR
130498-29-2	POLYCYCLIC AROMATIC HYDROCARBONS	Yes	8	2.3	LB/YR
75-56-9	PROPYLENE OXIDE	Yes	8	30.2	LB/YR
7664-93-9	SULFURIC ACID	No	4	5260.5	LB/YR
108-88-3	TOLUENE	Yes	8	135.2	LB/YR
1330-20-7	XYLENE (m-, o-, p-isomers - sum of isomers)	Yes	8	66.5	LB/YR

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Emission Process – Toxic Pollutant Emissions

Local & EPA IDs	Emission Unit & Process	Process Description
17659 *122612014*	03 – 01	Startup boiler low NOx burner - Cleaver Brooks stack nat gas

CAS Number	Pollutant Name	HAP?	Est. Code	2018 Emissions	
71-43-2	BENZENE	Yes	8	0.11	LB/YR
50-00-0	FORMALDEHYDE	Yes	8	4.09	LB/YR

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