Refined Modeling Inputs - GWF Tracy 8-14-0'
BEEST file name GWF_Tracy_Final4.BST

I-hr NO_X
BEEST Source Group EGEN_1

Source ID	Easting (m)	Northing (m)	Base Elevation (ft above MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_1	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	1.07
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	18.37
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	18.37

BEEST Source Group 1H_NOX

Source ID	Easting (m)	Northing (m)	Base Elevation (ft above MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
1_15_6_1	633083.79	4174618.24	177.17	100	850	92	17	20.16
1_15_6_2	633123.58	4174587.99	177.17	100	850	92	17	20.16

1-hr CO
BEEST Source Group EGEN_1

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_1	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	0.24
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	7.64
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	7.64

BEEST Source Group 1H_CO

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
1_11_6_1	633083.79	4174618.24	177.17	100	850	90	17	25.12
1_11_6_2	633123.58	4174587.99	177.17	100	850	90	17	25.12

1-hr SO_2
BEEST Source Group EGEN_1

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_1	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	0.17
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	0.55
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	0.55

BEEST Source Group 1H_SO2

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
1_15_0_1	633083.79	4174618.24	177.17	100	850	123	17	0.61
1_15_0_2	633123.58	4174587.99	177.17	100	850	123	17	0.61

3-hr SO_2
BEEST Source Group EGEN_3

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_3	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	0.06
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	0.55
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	0.55

BEEST Source Group 3H_SO2

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
3_15_0_1	633083.79	4174618.24	177.17	100	850	123	17	0.61
3_15_0_2	633123.58	4174587.99	177.17	100	850	123	17	0.61

8-hr CO
BEEST Source Group EGEN_8

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_8	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	3.00E-02
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	7.64
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	7.64

BEEST Source Group 8H_CO

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
8_11_6_1	633083.79	4174618.24	177.17	100	850	90	17	10.34
8_11_6_2	633123.58	4174587.99	177.17	100	850	90	17	10.34

24-hr SO_2
BEEST Source Group EGEN_24

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_24	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	7.00E-03
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	0.55
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	0.55

BEEST Source Group24H_SO2

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
4_15_0_1	633083.79	4174618.24	177.17	100	850	123	17	0.61
4_15_0_2	633123.58	4174587.99	177.17	100	850	123	17	0.61

24-hr PM_{10}
BEEST Source Group EGEN_24

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
E_GEN_24	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	1.00E-03
A_59_0_1	633083.79	4174618.24	177.17	100	850	119	17	10.3
A_59_0_2	633123.58	4174587.99	177.17	100	850	119	17	10.3

BEEST Source Group 24H_PM10

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	Emission Rate (lb/hr)
4_15_6_1	633083.79	4174618.24	177.17	100	850	92	17	10.26
4_15_6_2	633123.58	4174587.99	177.17	100	850	92	17	10.26

Annual SO_2, CO, NO_X & PM_{10}
BEEST Source Group ALL_ANN

Source ID	Easting (m)	Northing (m)	Base Elevation (ft, MSL)	Stack Height (ft)	Temp. (°F)	Exit Vel. (ft/s)	Stack Diam. (ft)	NO_X Emission Rate (lb/hr)	CO Emission Rate (lb/hr)	SO_2 Emission Rate (lb/hr)	PM_{10} Emission Rate (lb/hr)

ANNUAL1	633083.79	4174618.24	177.17	100	850	119	17	17.52	8.18	0.51	9.59
ANNUAL2	633123.58	4174587.99	177.17	100	850	119	17	17.52	8.18	0.51	9.59
E_GEN_AN	632966.78	4174596.93	183.07	20	1020	174.00941	0.5	6.00E-03	1.00E-03	1.00E-03	2.00E-03

Assumptions:

1 Turbine source name convention is as follows:
(Averaging period)_(Ambient Temperature)_(% load)_(turbine number)
2 Emergency Generator name convention is as follows:
E-GEN_(Averaging period)
3 Emergency generator operates 15 continuous minutes per week for testing while turbines are at 100% load.
4 Turbine startups last 20 minutes and turbine shutdowns last 30 minutes
5 Annual emissions consider 250 startups, 250 shutdowns, and 8000 hours of 100% operation at 59 oF
6 1-, 3-, 8-, and 24-hr emissions consider 1 startup occurring within the period for each turbine.
7 Stack parameters for each source are based on the temperature and averaging period indicated.
8 Two source groups are listed to account for emissions during emergency generator testing.