

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . fax (415) 749-5030  
 Website: [www.baaqmd.gov](http://www.baaqmd.gov)

**Data Form C**  
**FUEL COMBUSTION SOURCE**

(for District use only)

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New  Modified  Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: <u>Mirant Marsh landing, LLC</u>	Plant No: <u>19169</u> Source No. <u>S-1</u>
2. Equipment Name & Number, or Description: <u>Natural Gas-Fired CTG #1</u>	
3. Make, Model : <u>Siemens SGT6 5000F Natural Gas-Fired CTG</u> Maximum firing rate: <u>2202MM</u> Btu/hr	
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one): <input checked="" type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ <small>If unknown leave blank</small>	
7. Equipment type (check one) <b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine <input checked="" type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b> <input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b> <input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: _____ <input type="checkbox"/> open burning <input type="checkbox"/> kiln <input type="checkbox"/> other _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no    Make, Model <u>Siemens, Ultra Low NOx Combustor</u>	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>3,159,287</u> acfm at <u>750</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752 hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>A</b> _____ <b>A</b> _____ <b>A</b> _____ With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? <b>S</b> _____ <b>S</b> _____ <b>A</b> <u>1</u> <b>A</b> <u>2</u> <b>P</b> <u>1</u> <b>P</b> _____	

Person completing this form: Mark Strehlow

Date: October 23, 2009

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.	Natural Gas		3.86E+7	2202 MM	N/A	N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

**Note:** \* MSCF = thousand standard cubic feet  
 \* m gal = thousand gallons  
 \* therm = 100,000 BTU  
 \*\* See tables below for Fuel and Basis Codes  
 \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

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**Data Form C**  
**FUEL COMBUSTION SOURCE**

(for District use only)

\_\_\_\_\_

New  Modified  Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Mirant Marsh landing, LLC	Plant No: 19169 Source No. S-2
2. Equipment Name & Number, or Description: Natural Gas-Fired CTG #2	
3. Make, Model : Siemens SGT6 5000F Natural Gas-Fired CTG	Maximum firing rate: 2202MM Btu/hr
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one): <input checked="" type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ If unknown leave blank	
7. Equipment type (check one) <b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine <input checked="" type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b> <input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b> <input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: <input type="checkbox"/> open burning <input type="checkbox"/> kiln    _____ <input type="checkbox"/> other _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no    Make, Model <u>Siemens, Ultra Low NOx Combustor</u>	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>3,159,287</u> acfm at <u>750</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>A</b> _____ <b>A</b> _____ <b>A</b> _____ With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? <b>S</b> _____ <b>S</b> _____ <b>A</b> <u>3</u> <b>A</b> <u>4</u> <b>P</b> <u>2</u> <b>P</b> _____	

Person completing this form: Mark Strehlow

Date: October 23, 2009

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.	Natural Gas		3.86E+7	2202 MM		N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

- Note:**
- \* MSCF = thousand standard cubic feet
  - \* m gal = thousand gallons
  - \* therm = 100,000 BTU
  - \*\* See tables below for Fuel and Basis Codes
  - \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

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**Data Form C**  
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New  Modified  Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: <u>Mirant Marsh landing, LLC</u>	Plant No: <u>19169</u> Source No. <u>S-3</u>
2. Equipment Name & Number, or Description: <u>Natural Gas-Fired CTG #3</u>	
3. Make, Model : <u>Siemens SGT6 5000F Natural Gas-Fired CTG</u> Maximum firing rate: <u>2202MM</u> Btu/hr	
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one): <input checked="" type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ <small>If unknown leave blank</small>	
7. Equipment type (check one) <b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine <input checked="" type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b> <input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b> <input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: _____ <input type="checkbox"/> open burning <input type="checkbox"/> kiln <input type="checkbox"/> other _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no    Make, Model <u>Siemens, Ultra Low NOx Combustor</u>	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>3,159,287</u> acfm at <u>750</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752 hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>A</b> _____ <b>A</b> _____ <b>A</b> _____ With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? <b>S</b> _____ <b>S</b> _____ <b>A</b> <u>5</u> <b>A</b> <u>6</u> <b>P</b> <u>3</u> <b>P</b> _____	

Person completing this form: Mark Strehlow

Date: October 23, 2009

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.	Natural Gas		3.86E+7	2202 MM	N/A	N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

- Note:**
- \* MSCF = thousand standard cubic feet
  - \* m gal = thousand gallons
  - \* therm = 100,000 BTU
  - \*\* See tables below for Fuel and Basis Codes
  - \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
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33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

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Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Mirant Marsh landing, LLC	Plant No: 19169 Source No. S-4
2. Equipment Name & Number, or Description: Natural Gas-Fired CTG #4	
3. Make, Model : Siemens SGT6 5000F Natural Gas-Fired CTG Maximum firing rate: 2202MM Btu/hr	
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one): <input checked="" type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ <small>If unknown leave blank</small>	
7. Equipment type (check one) <b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine <input checked="" type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b> <input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b> <input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: <input type="checkbox"/> open burning <input type="checkbox"/> kiln    _____ <input type="checkbox"/> other _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no    Make, Model <u>Siemens, Ultra Low NOx Combustor</u>	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>3,159,287</u> acfm at <u>750</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752 hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>S</b> _____ <b>A</b> _____ <b>A</b> _____ <b>A</b> _____ With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? <b>S</b> _____ <b>S</b> _____ <b>A</b> <u>7</u> <b>A</b> <u>8</u> <b>P</b> <u>4</u> <b>P</b> _____	

Person completing this form: Mark Strehlow

Date: October 23, 2009

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	<i>Fuel Name</i>	<i>Fuel Code**</i>	<i>Total Annual Usage***</i>	<i>Maximum Possible Fuel Use Rate</i>	<i>Typical Heat Content</i>	<i>Sulfur Content</i>	<i>Nitrogen Content (optional)</i>	<i>Ash Content (optional)</i>
1.	Natural Gas		3.86E+7	2202 MM	N/A	N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	<i>Fuel Name</i>	<i>Fuel Code**</i>	<i>Particulates</i>		<i>NOx</i>		<i>CO</i>	
			<i>Emission Factor</i>	<i>**Basis Code</i>	<i>Emission Factor</i>	<i>**Basis Code</i>	<i>Emission Factor</i>	<i>**Basis Code</i>
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

**Note:** \* MSCF = thousand standard cubic feet  
 \* m gal = thousand gallons  
 \* therm = 100,000 BTU  
 \*\* See tables below for Fuel and Basis Codes  
 \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

<b>**Fuel Codes</b>				<b>**Basis Codes</b>	
<i>Code</i>	<i>Fuel</i>	<i>Code</i>	<i>Fuel</i>	<i>Code</i>	<i>Method</i>
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				



**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

939 Ellis Street . . . San Francisco, CA 94109. . . (415) 749-4990 . . . fax (415) 749-5030  
Website: www.baaqmd.gov

**Data Form C  
FUEL COMBUSTION SOURCE**

(for District use only)

\_\_\_\_\_

New  Modified  Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Mirant Marsh landing, LLC	Plant No: 19169 Source No. S-5
2. Equipment Name & Number, or Description: Natural Gas-Fired Fuel Preheater (Serving S-1 and S-2)	
3. Make, Model : TBD	Maximum firing rate: 5MM Btu/hr
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one):	
<input type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input checked="" type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ If unknown leave blank	
7. Equipment type (check one)	
<b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine	
<input type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b>	
<input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b>	
<input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: <input type="checkbox"/> open burning <input type="checkbox"/> kiln <input checked="" type="checkbox"/> other <u>Nat Gas Fired Fuel Preheater</u> _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Make, Model _____	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>1048</u> acfm at <u>415</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752 hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM? S _____ S _____ S _____ S _____ S _____ S _____ A _____ A _____ A _____	
With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM? S _____ S _____ A _____ A _____ P <u>5</u> _____ P _____	

Person completing this form: Mark Strehlow

Date: October 23, 2009

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.	Natural Gas		87,600	5MM	N/A	N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

**Note:** \* MSCF = thousand standard cubic feet  
 \* m gal = thousand gallons  
 \* therm = 100,000 BTU  
 \*\* See tables below for Fuel and Basis Codes  
 \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
47	Brown coal	238	Process gas - RMG	4	Material balance by plant using engineering expertise and knowledge of process
242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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 Website: [www.baaqmd.gov](http://www.baaqmd.gov)

**Data Form C  
 FUEL COMBUSTION SOURCE**

(for District use only)

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New  Modified  Retro

Form C is for all operations which burn fuel except for internal combustion engines (use [Form ICE](#) unless it is a gas turbine; for gas turbines use this form). If the operation also involves evaporation of any organic solvent, complete [Form S](#) and attach to this form. If the operation involves a process which generates any other air pollutants, complete [Form G](#) and attach to this form.

Check box if this source has a secondary function as an abatement device for some other source(s); complete lines 1, 2, and 7-13 on Form A (using the source number below for the Abatement Device No.) and attach to this form.

(If unknown, leave blank)	
1. Company Name: Mirant Marsh landing, LLC	Plant No: 19169 Source No. S-6
2. Equipment Name & Number, or Description: Natural Gas-Fired Fuel Preheater (Serving S-3 and S-4)	
3. Make, Model : TBD	Maximum firing rate: 5MM Btu/hr
4. Date of modification or initial operation: _____ (if unknown, leave blank)	
5. Primary use (check one):	
<input type="checkbox"/> electrical generation <input type="checkbox"/> space heat <input type="checkbox"/> waste disposal <input type="checkbox"/> testing <input type="checkbox"/> abatement device <input type="checkbox"/> cogeneration <input type="checkbox"/> resource recovery <input type="checkbox"/> other <input checked="" type="checkbox"/> process heat; material heated _____	
6. SIC Number _____ <small>If unknown leave blank</small>	
7. Equipment type (check one)	
<b>Internal combustion</b> Use <a href="#">Form ICE (Internal Combustion Engine)</a> unless it is a gas turbine <input type="checkbox"/> gas turbine <input type="checkbox"/> other _____ hp	
<b>Incinerator</b> <input type="checkbox"/> salvage operation <input type="checkbox"/> pathological waste    Temperature _____ °F <input type="checkbox"/> liquid waste <input type="checkbox"/> other _____    Residence time _____ Sec	
<b>Others</b> <input type="checkbox"/> boiler <input type="checkbox"/> dryer <input type="checkbox"/> afterburner <input type="checkbox"/> oven <input type="checkbox"/> flare <input type="checkbox"/> furnace    Material dried, baked, or heated: <input type="checkbox"/> open burning <input type="checkbox"/> kiln <input checked="" type="checkbox"/> other <u>Nat Gas Fired Fuel Preheater</u> _____	
8. Overfire air? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
9. Flue gas recirculation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    If yes, what percent _____ %	
10. Air preheat? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Temperature _____ °F	
11. Low NO <sub>x</sub> burners? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no    Make, Model _____	
12. Maximum flame temperature _____ °F	
13. Combustion products: Wet gas flowrate <u>1048</u> acfm at <u>415</u> °F Typical Oxygen Content _____ dry volume % or _____ wet volume % or _____ % excess air	
14. Typical Use <u>24</u> hours/day <u>7</u> days/week <u>10.4</u> weeks/year (1,752 hrs/yr)	
15. Typical % of annual total: Dec-Feb <u>25%</u> Mar-May <u>25%</u> Jun-Aug <u>25%</u> Sep-Nov <u>25%</u>	
16. With regard to air pollutant flow, what source(s) or abatement device(s) are immediately UPSTREAM?	
S _____ S _____ S _____ S _____ S _____ S _____ A _____ A _____ A _____	
With regard to air pollutant flow, what source(s) or abatement device(s), and/or emission points are immediately DOWNSTREAM?	
S _____ S _____ A _____ A _____ P <u>6</u> P _____	

Person completing this form: Mark Strehlow	Date: October 23, 2009
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(revised 4/05)

## FUELS

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means "Not Applicable."

### SECTION A: FUEL DATA

	Fuel Name	Fuel Code**	Total Annual Usage***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (optional)	Ash Content (optional)
1.	Natural Gas		87,600	5MM	N/A	N/A	N/A	N/A
2.								
3.								
4.								
5.								

<i>Use the appropriate units for each fuel</i>	Natural Gas	therm*	Btu/hr	N/A	N/A	N/A	N/A
	Other Gas	MSCF*	MSCF/hr	Btu/MSCF	ppm	N/A	N/A
	Liquid	m gal*	m gal/hr	Btu/m gal	wt%	wt%	wt%
	Solid	ton	ton/hr	Btu/ton	wt%	wt%	wt%

### SECTION B: EMISSION FACTORS (optional)

	Fuel Name	Fuel Code**	Particulates		NOx		CO	
			Emission Factor	**Basis Code	Emission Factor	**Basis Code	Emission Factor	**Basis Code
1.								
2.								
3.								
4.								

*Use the appropriate units for each fuel:* Natural Gas = lb/therm\*  
 Other Gas = lb/MSCF\*  
 Liquid = lb/m gal\*  
 Solid = lb/ton

**Note:** \* MSCF = thousand standard cubic feet  
 \* m gal = thousand gallons  
 \* therm = 100,000 BTU  
 \*\* See tables below for Fuel and Basis Codes  
 \*\*\* Total annual usage is: - Projected usage over next 12 months if equipment is new or modified.  
 - Actual usage for last 12 months if equipment is existing and unchanged.

**Fuel Codes				**Basis Codes	
Code	Fuel	Code	Fuel	Code	Method
25	Anthracite coal	189	Natural Gas	0	Not applicable for this pollutant
33	Bagasse	234	Process gas - blast furnace	1	Source testing or other measurement by plant (attach copy)
35	Bark	235	Process gas - CO	2	Source testing or other measurement by BAAQMD (give date)
43	Bituminous coal	236	Process gas - coke oven gas	3	Specifications from vendor (attach copy)
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242	Bunker C fuel oil	237	Process gas - other	5	Material balance by BAAQMD
80	Coke	242	Residual oil	6	Taken from AP-42 (compilation of Air Pollutant Emission Factors, EPA)
89	Crude oil	495	Refuse derived fuel	7	Taken from literature, other than AP-42 (attach copy)
98	Diesel oil	511	Landfill gas	8	Guess
493	Digester gas	256	Solid propellant		
315	Distillate oil	466	Solid waste		
392	Fuel oil #2	304	Wood - hogged		
551	Gasoline	305	Wood - other		
158	Jet fuel	198	Other - gaseous fuels		
160	LPG	200	Other - liquid fuels		
165	Lignite	203	Other - solid fuels		
167	Liquid waste				
494	Municipal solid waste				

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

939 Ellis Street . . . San Francisco, CA . . . 94109. . . (415) 749-4990 . . . Fax (415) 749-5030

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 1

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 1      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_  
 S- \_\_\_\_\_      A- 1      A- 2      A- \_\_\_\_\_      A- \_\_\_\_\_      A- \_\_\_\_\_

Exit cross-section area: 770.53 sq. ft.      Height above grade: 150.25 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	3,159,287      cfm	3,048,718      cfm
<i>Percent Water Vapor</i>	8.32      Vol %	8.9      Vol %
<i>Temperature</i>	750      °F	750      °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?       yes       no

What pollutants are monitored? NO<sub>x</sub>, CO, O<sub>2</sub>

Person completing this form Mark Strehlow Date October 23, 2009

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 2

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 2      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_  
 S- \_\_\_\_\_      A- 3      A- 4      A- \_\_\_\_\_      A- \_\_\_\_\_      A- \_\_\_\_\_

Exit cross-section area: 770.53 sq. ft.      Height above grade: 150.25 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	3,159,287 cfm	3,048,718 cfm
<i>Percent Water Vapor</i>	8.32 Vol %	8.9 Vol %
<i>Temperature</i>	750 °F	750 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?     yes     no

What pollutants are monitored? NO<sub>x</sub>, CO, O<sub>2</sub>

Person completing this form Mark Strehlow Date October 23, 2009

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 3

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 3      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_  
 S- \_\_\_\_\_      A- 5      A- 6      A- \_\_\_\_\_      A- \_\_\_\_\_      A- \_\_\_\_\_

Exit cross-section area: 770.53 sq. ft.      Height above grade: 150.25 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	3,159,287 cfm	3,048,718 cfm
<i>Percent Water Vapor</i>	8.32 Vol %	8.9 Vol %
<i>Temperature</i>	750 °F	750 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?       yes       no

What pollutants are monitored? NO<sub>x</sub>, CO, O<sub>2</sub>

Person completing this form Mark Strehlow Date October 23, 2009

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 4

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 4      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_      S- \_\_\_\_\_  
 S- \_\_\_\_\_      A- 7      A- 8      A- \_\_\_\_\_      A- \_\_\_\_\_      A- \_\_\_\_\_

Exit cross-section area: 770.53 sq. ft.      Height above grade: 150.25 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	3,159,287      cfm	3,048,718      cfm
<i>Percent Water Vapor</i>	8.32      Vol %	8.9      Vol %
<i>Temperature</i>	750      °F	750      °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?       yes       no

What pollutants are monitored? NO<sub>x</sub>, CO, O<sub>2</sub>

Person completing this form Mark Strehlow Date October 23, 2009



**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 5

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 5    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
 S- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

Exit cross-section area: 0.35 sq. ft.                      Height above grade: 26 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1,048                      cfm	1,048,                      cfm
<i>Percent Water Vapor</i>	Vol %	Vol %
<i>Temperature</i>	415                      °F	415                      °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?     yes     no

What pollutants are monitored? \_\_\_\_\_

Person completing this form Mark Strehlow Date October 23, 2009

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.


Business Name: Mirant Marsh landing, LLC Plant No: 19169

Emission Point No: P- 6

With regard to air pollutant flow into this emission point, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 6    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
 S- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

Exit cross-section area: 0.35 sq. ft.                      Height above grade: 26 ft.

**Effluent Flow from Stack**

	<i>Typical Operating Condition</i>	<i>Maximum Operating Condition</i>
<i>Actual Wet Gas Flowrate</i>	1,048 cfm	1,048, cfm
<i>Percent Water Vapor</i>	Vol %	Vol %
<i>Temperature</i>	415 °F	415 °F

If this stack is equipped to measure (monitor) the emission of any air pollutants,

Is monitoring continuous?     yes     no

What pollutants are monitored? \_\_\_\_\_

Person completing this form Mark Strehlow Date October 23, 2009



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)

2. Name or Description CO Catalyst System Abatement Device No: A- 1

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 1    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
 S- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics	< 1 ppmvd@15%O2	
9.	Nitrogen Oxides (as NO <sub>2</sub> )		
10.	Sulfur Dioxide		
11.	Carbon Monoxide	< 2 ppmvd@15%O2	
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_    A- 2    \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    P- 1    P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)

2. Name or Description Selective Catalytic Reduction Abatement Device No: A- 2

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 1    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
 S- \_\_\_\_\_    A- 1    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics		
9.	Nitrogen Oxides (as NO <sub>2</sub> )	2.5 ppmvd	
10.	Sulfur Dioxide		
11.	Carbon Monoxide		
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 1 P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>0</sub> 4 Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>0</sub> 4 Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)
2. Name or Description CO Catalyst System Abatement Device No: A- 3
3. Make, Model, and Rated Capacity TBD
4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_
5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?  

S- <u>2</u>	S- _____	S- _____	S- _____	S- _____	
S- _____	A- _____	A- _____	A- _____	A- _____	A- _____
6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics	< 1 ppmvd@15%O2	
9.	Nitrogen Oxides (as NO <sub>2</sub> )		
10.	Sulfur Dioxide		
11.	Carbon Monoxide	< 2 ppmvd@15%O2	
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.
15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- 4 \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 2 P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess





## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)

2. Name or Description Selective Catalytic Reduction Abatement Device No: A- 4

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 2    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
 S- \_\_\_\_\_    A- 3    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics		
9.	Nitrogen Oxides (as NO <sub>2</sub> )	2.5 ppmvd	
10.	Sulfur Dioxide		
11.	Carbon Monoxide		
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    P- 2    P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)
2. Name or Description CO Catalyst System Abatement Device No: A- 5
3. Make, Model, and Rated Capacity TBD
4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_
5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?  

S- <u>3</u>	S- _____	S- _____	S- _____	S- _____	
S- _____	A- _____	A- _____	A- _____	A- _____	A- _____
6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics	< 1 ppmvd@15%O2	
9.	Nitrogen Oxides (as NO <sub>2</sub> )		
10.	Sulfur Dioxide		
11.	Carbon Monoxide	< 2 ppmvd@15%O2	
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.
15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- 6 \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 3 P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)
2. Name or Description Selective Catalytic Reduction Abatement Device No: A- 6
3. Make, Model, and Rated Capacity TBD
4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_
5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?  

S- <u>3</u>	S- _____	S- _____	S- _____	S- _____	
S- _____	A- <u>5</u>	A- _____	A- _____	A- _____	A- _____
6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics		
9.	Nitrogen Oxides (as NO <sub>2</sub> )	2.5 ppmvd	
10.	Sulfur Dioxide		
11.	Carbon Monoxide		
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.
15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 3 P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>June 19, 2008</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess



## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street . . . San Francisco, CA 94109 . . . (415) 749-4990 . . . FAX (415) 749-5030

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)
2. Name or Description CO Catalyst System Abatement Device No: A- 7
3. Make, Model, and Rated Capacity TBD
4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_
5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?  

S- <u>4</u>	S- _____	S- _____	S- _____	S- _____	
S- _____	A- _____	A- _____	A- _____	A- _____	A- _____
6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics	< 1 ppmvd@15%O2	
9.	Nitrogen Oxides (as NO <sub>2</sub> )		
10.	Sulfur Dioxide		
11.	Carbon Monoxide	< 2 ppmvd@15%O2	
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.
15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- 8 \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 4 P- \_\_\_\_\_

Person completing this form: <u>Mark Strehlow</u>	Date: <u>October 23, 2009</u>
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**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
3	Specifications from vendor
4	Material balance by plant using engineering expertise and knowledge of process
5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess





## BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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*for office use only*

**Abatement Device:** Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

1. Business Name: Mirant Marsh landing, LLC Plant No: 19169  
(If unknown, leave blank)

2. Name or Description Selective Catalytic Reduction Abatement Device No: A- 8

3. Make, Model, and Rated Capacity TBD

4. Abatement Device Code (See table\*) 2 Date of Initial Operation \_\_\_\_\_

5. With regard to air pollutant flow into this abatement device, what sources(s) and/or abatement device(s) are **immediately** upstream?

S- 4    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_    S- \_\_\_\_\_  
S- \_\_\_\_\_    A- 7    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_    A- \_\_\_\_\_

6. Typical gas stream temperature at inlet: 750 °F

If this form is being submitted as part of an application for an **Authority to Construct**, completion of the following table is mandatory. If not, and the Abatement Device is *already in operation*, completion of the table is requested but not required.

	Pollutant	Weight Percent Reduction (at typical operation)	Basis Codes (See Table**)
7.	Particulate		
8.	Organics		
9.	Nitrogen Oxides (as NO <sub>2</sub> )	2.5 ppmvd	
10.	Sulfur Dioxide		
11.	Carbon Monoxide		
12.	Other:		
13.	Other:		

14.  Check box if this Abatement Device burns fuel; complete lines 1, 2 and 15-36 on Form C (using the Abatement Device No. above for the Source No.) and attach to this form.

15. With regard to air pollutant flow from this abatement device, what sources(s), abatement device(s) and/or emission point(s) are **immediately** downstream?

S- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ A- \_\_\_\_\_ P- 4 P- \_\_\_\_\_

Person completing this form: Mark Strehlow Date: October 23, 2009

**\*ABATEMENT DEVICE CODES**

Code	DEVICE
	ADSORBER (See Vapor Recovery)
	AFTERBURNER
1	CO Boiler
2	Catalytic
3	Direct Flame
4	Flare
5	Furnace-firebox
6	Other
	BAGHOUSE (See Dry Filter)
	CYCLONE (See Dry Inertial Collector and Scrubber)
	DUST CONTROL
68	Water Spray
	DRY FILTER
7	Absolute
8	Baghouse, Pulse Jet
9	Baghouse, Reverse Air
10	Baghouse, Reverse Jet
11	Baghouse, Shaking
12	Baghouse, Simple
13	Baghouse, Other
14	Envelope
15	Moving Belt
16	Other
	DRY INERTIAL COLLECTOR
17	Cyclone, Dynamic
18	Cyclone, Multiple (12 inches dia. or more)
19	Cyclone, Multiple (less than 12 inches dia.)
20	Cyclone, Simple
21	Settling Chamber, Baffled/Louvered
22	Settling Chamber, Simple
23	Other
	ELECTROSTATIC PRECIPITATOR
24	Single Stage
25	Single Stage, Wet
26	Two Stage
27	Two Stage, Wet
28	Other
	INCINERATOR (See Afterburner)
	INTERNAL COMBUSTION ENGINE CONTROL
69	Catalyzed Diesel Particulate Filter
70	Non-Cat. Diesel Part. Filter w/ Active Regeneration
71	Diesel Oxidation Catalyst
72	Oxidation Catalyst
	INCINERATOR (See Afterburner)
	KNOCK-OUT POT (See Liquid Separator)
	LIQUID SEPARATOR
29	Knock-out Pot
30	Mist Eliminator, Horizontal Pad, Dry
31	Mist Eliminator, Panel, Dry
32	Mist Eliminator, Spray/Irrigated
33	Mist Eliminator, Vertical Tube, Dry
34	Mist Eliminator, Other
35	Other
	MIST ELIMINATOR (See Liquid Separator)

Code	DEVICE
	NO <sub>x</sub> CONTROL
66	Selective Catalytic Reduction (SCR)
67	Non-Selective Catalytic Reduction (NSCR)
73	Selective Non-Catalytic Reduction (SNCR)
	SCRUBBER
36	Baffle and Secondary Flow
37	Centrifugal
38	Cyclone, Irrigated
39	Fibrous Packed
40	Impingement Plate
41	Impingement and Entrainment
42	Mechanically Aided
43	Moving Bed
44	Packed Bed
45	Preformed Spray
46	Venturi
47	Other
	SETTLING CHAMBER (See Dry Inertial Collector)
	SULFUR DIOXIDE CONTROL
48	Absorption and Regeneration, for Sulfur Plant
49	Claus Solution Reaction, for Sulfur Plant
50	Dual Absorption, for H <sub>2</sub> S <sub>04</sub> Plant
51	Flue Gas Desulfurization, for Fossil Fuel Combustion
52	Reduction and Solution Regeneration, for Sulfur Plant
53	Reduction and Stretford Process, for Sulfur Plant
54	Sodium Sulfite-Bisulfite Scrubber, for H <sub>2</sub> S <sub>04</sub> Plant
55	Other
	VAPOR RECOVERY
56	Adsorption, Activated Carbon/Charcoal
57	Adsorption, Silica
58	Adsorption, Other
59	Balance
60	Compression/Condensation/Absorption
61	Compression/Refrigeration
62	Condenser, Water-Cooled
63	Condenser, Other
64	Other
	MISCELLANEOUS
65	Not classified above

**\*\*BASIS CODES**

Code	Method
0	Not applicable for this pollutant
1	Source testing or other measurement <b>by plant</b>
2	Source testing or other measurement <b>by BAAQMD</b>
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5	Material balance <b>by BAAQMD</b> using engineering expertise and knowledge of process
6	Taken from AP-42 ("Compilation of Air Pollutant Emission Factors," EPA)
7	Taken from literature, other than AP-42
8	Guess