Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Rex Taylor, City Manager, Utilities Director

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: City of Vero Beach

Street Address: 1053 20th Place PO Box 1389

City: Vero Beach

State: FL

Zip Code: 32961-1389

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone:

(407) 567-5151

Fax: (407) 569-0130

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210,200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

* Attach letter of authorization if not currently on file.

4. Professional Engineer's Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here $[\chi]$ if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Manual 7. 14 m/g.
Signature

72/10905/ 1

Date

(seal) // /

^{*} Attach any exception to certification statement.

Emissions Unit Information Section	1	of	6

Steam Generator Unit.1

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode)
(limit to 500 characters):	·

External Combustion Boilers, Electric Generation, Distillate Oil, Grade No. 1 and 2

2. Source Classification Code (SCC):

1-01-005-01

3. SCC Units:

Thousand Gallons Burned (all liquid fuels)

4. Maximum Hourly Rate:

1.011

5. Maximum Annual Rate:

6. Estimated Annual Activity Factor:

7. Maximum Percent Sulfur: 0.25

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

139

10. Segment Comment (limit to 200 characters):

Million Btu per SCC Unit: 138.5. High heating value (HHV) reported for heat content.

Segment Description and Rate: Segment of			
1. Segment Description (Process/Fuel (limit to 500 characters):	Type and Associated Operating Method/Mode)		
External combustion boiler, Electric	External combustion boiler, Electric generation, Natural gas, Boilers > 100 MMBtu/hr		
·			
2. Source Classification Code (SCC)			
	1-01-006-01		
3. SCC Units:			
Million Cubic Feet Burned			
4. Maximum Hourly Rate:	5. Maximum Annual Rate:		
0.241	2,109		
6. Estimated Annual Activity Factor:			
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit:	1,030		
10. Segment Comment (limit to 200 o	,		
High Heating Value (HHV) reporte ft.	d for heat content. Max sulfur content: 1 grain/100 cubic		
·			
u.			

Segment Description and Rate: Segment 2 of 5

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode)
	(limit to 500 characters):

External combustion boilers, Electric generation, Residual oil, Grade 6 oil; normal firing

2. Source Classification Code (SCC):

1-01-004-01

3. SCC Units:

1000 gallons burned

4. Maximum Hourly Rate:

5. Maximum Annual Rate:

14,191

- 6. Estimated Annual Activity Factor:
- 7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

150

10. Segment Comment (limit to 200 characters):

1.5

1.62

Maximum percent sulfur based on small boiler BACT of 1.5% sulfur (<250 MMBtu/hr). High Heating Value (HHV) is reported for heat content.

Segment Description and Rate: Segment _____ of _____ 5

 Segment Description (Process/Fuel Ty (limit to 500 characters): 	pe and Associated Operating Method/Mode)			
External Combustion Boilers, Electric G	External Combustion Boilers, Electric Generation, Grade No.4 Oil, Normal Firing			
·				
2. Source Classification Code (SCC):	-01-005-04			
3. SCC Units:				
Thousand Gallons Burned				
4. Maximum Hourly Rate:	5. Maximum Annual Rate:			
1.688	14,783			
6. Estimated Annual Activity Factor:				
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:			
0.7	<u> </u>			
9. Million Btu per SCC Unit:	144			
10. Segment Comment (limit to 200 char	racters):			
High heating value (HHV) reported fo	r heat content.			
·				
	•			
;	·			

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fu	iel Type and	Associated	Operating 1	Method/Mode)
(limit to 500 characters):				

External Combustion Boilers, Electric Generation, Distillate Oil, Grade No.1 and No.2

2. Source Classification Code (SCC):

1-01-005-01

3. SCC Units:

1,000 Gallons

4. Maximum Hourly Rate:

1.78

5. Maximum Annual Rate:

15,629

- 6. Estimated Annual Activity Factor:
- 7. Maximum Percent Sulfur: 0.25

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

139

10. Segment Comment (limit to 200 characters):

Million Btu per SCC Unit: 138.5 High Heating Value (HHV) reported for maximum heat content of unit fuel will not increase emissions.

DEP Form No. 62-210.900(1) - Form Effective: 03-21-96

Segment Description and Rate: Segment ____5 of ___5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):			
Electric Utility Boiler - Liquified Petrole	um Gas (LPG) - Propane		
2. Source Classification Code (SCC):			
	-01-010-02		
3. SCC Units:			
Thousand Gallons Burned	••••••••••••••••••••••••••••••••••••••		
4. Maximum Hourly Rate:	5. Maximum Annual Rate:		
2.74	24,005		
6. Estimated Annual Activity Factor:			
·			
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit:	·* · · · · · · · · · · · · · · · · · ·		
	91		
10. Segment Comment (limit to 200 char	racters):		
Million Btu per SCC Unit: 90.5 (rounded to 91). Reported for maximum heat input of unit.			
Fuel does not increase emissions.			
·			
·			

DEP Form No. 62-210.900(1) - Form Effective: 03-21-96

ATTACHMENT VB-EU2-L2 FUEL ANALYSIS OR SPECIFICATION

			Maxim	ım % Weight	Content	
Fuel	Density (lb/gal) ^a	Moisture (%)	Sulfur	Nitrogen	Ash	Heat Capacity
Natural Gas	0.045 ^b	_	1°	0.43 ^d	_	23,100 BTU/lb 1,030 Btu/ft ³
Propane	4.27	-	_	<0.8	_	21,190 BTU/lb 90,500 BTU/gal
No. 2 Fuel Oil	7.1	0.01	0.25	0.02	<0.01	19,500 BTU/lb 138,500 BTU/gal
No. 4 Fuel Oil	7.6	0.05	0.7	0.18	<0.01	19,000 BTU/lb 144,000 Btu/gal
No. 6 Fuel Oil	8.15	0.20	2.5	0.32	0.05	18,400 BTU/lb 150,000 BTU/gal

<sup>At 60 degrees F.
Represented as lb/ft³. Based on heat capacities presented.
Represented as grains/100 ft³.
Atmospheric nitrogen.</sup>

Segment Description and Rate: Segment ____ of ___5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):		
External Combustion Boiler, Electric Ge	neration, Natural Gas, Boilers > 100 MMBtu/hr	
2. Source Classification Code (SCC):	24 222 24	
1	-01-006-01	
3. SCC Units:		
Million cubic feet burned		
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	
9.405		
	3,546	
6. Estimated Annual Activity Factor:		
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9. Million Btu per SCC Unit:	L	
2. Million Biu per 300 Ollit.	1,030	
10. Segment Comment (limit to 200 char	acters):	
High Heating Value (HHV) reported for heat content. Max. sulfur content: 1 grain/100 cubic foot.		
·		

Emissions Unit Information Section	3	_ of	6
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Steam Generator Unit.3

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel	Type and	Associated	Operating	Method/Mod	e)
(limit to 500 characters):					

External Combustion Boilers, Electric Generation, Grade 6 oil; Normal firing

2. Source Classification Code (SCC):

1-01-004-01

3. SCC Units:

1000 gallons burned

4. Maximum Hourly Rate:

2.733

5. Maximum Annual Rate:

23,944

- 6. Estimated Annual Activity Factor:
- 7. Maximum Percent Sulfur: 2.5

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

150

10. Segment Comment (limit to 200 characters):

Maximum percent sulfur based on permitted SO2 emission rate of 2.75 lb/MMBTU. High Heating Value (HHV) is reported for heat content.

DEP Form No. 62-210.900(1) - Form Effective: 03-21-96

14383Y/F1/TVEU3SI

Segment Description and Rate: Segment ____ of ____5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):					
External Combustion Boilers, Electric G	Generation, Distillate Oil, Grade No.4, Normal.				
•	•				
2. Source Classification Code (SCC):	I-01-005-04				
3. SCC Units:					
1000 gallons burned	 				
4. Maximum Hourly Rate:	5. Maximum Annual Rate:				
2.847	24,942				
6. Estimated Annual Activity Factor:					
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:				
0.7	•				
9. Million Btu per SCC Unit:					
	144				
10. Segment Comment (limit to 200 char	racters):				
High heating value (HHV) reported for heat content.					
g maxing value (inity) reported for near content.					
4					

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

External Combustion Boilers, Electric Generation, Distillate Oil, Grade No.1 and No.2

2. Source Classification Code (SCC):

1-01-005-01

3. SCC Units:

1,000 Gallons

4. Maximum Hourly Rate:

3.01

5. Maximum Annual Rate:

26,375

- 6. Estimated Annual Activity Factor:
- 7. Maximum Percent Sulfur: 0.25

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

139

10. Segment Comment (limit to 200 characters):

Million Btu per SCC Unit: 138.5 High Heating Value (HHV) reported for maximum heat content of unit fuel will not increase emissions.

Effective: 03-21-96

Segment Description and Rate: Segment ____ of ____

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):						
Electric Utility Boiler - Liquified Petroleum Gas (LPG) - Propane						
	·					
2. Source Classification Code (SCC):						
1	-01-010-02					
3. SCC Units:						
Thousand Gallons Burned						
4. Maximum Hourly Rate:	5. Maximum Annual Rate:					
4.61	40,364					
6. Estimated Annual Activity Factor:						
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:					
9. Million Btu per SCC Unit:						
	91					
10. Segment Comment (limit to 200 char	acters):					
Million Btu per SCC Unit: 90.5 (rounded to 91). Reported for maximum heat input of unit.						
Fuel does not increase emissions.						

Segment Description and Rate: Segment _____ of ____

- 1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):
- 2. Source Classification Code (SCC):
- 3. SCC Units:
- 4. Maximum Hourly Rate: 5. Maximum Annual Rate:
- 6. Estimated Annual Activity Factor:
- 7. Maximum Percent Sulfur:
- 8. Maximum Percent Ash:
- 9. Million Btu per SCC Unit:
- 10. Segment Comment (limit to 200 characters):

ATTACHMENT VB-EU3-L2 FUEL ANALYSIS OR SPECIFICATION

			Maximum % Weight Content			
Fuel	Density (lb/gal) ^a	Moisture (%)	Sulfur	Nitrogen	Ash	Heat Capacity
Natural Gas	0.045 ⁶	_	1°	0.43 ^d	_	23,100 BTU/lb 1,030 Btu/ft³
Propane	4.27	_		<0.8		21,190 BTU/lb 90,500 BTU/gal
No. 2 Fuel Oil	7.1	0.01	0.25	0.02	<0.01	19,500 BTU/lb 138,500 BTU/gal
No. 4 Fuel Oil	7.6	0.05	0.7	0.18	<0.01	19,000 BTU/lb 144,000 Btu/gal
No. 6 Fuel Oil	8.15	0.20	1.5	0.32	0.05	18,400 BTU/lb 150,000 BTU/gal

^a At 60 degrees F.
^b Represented as lb/ft³. Based on heat capacities presented.
^c Represented as grains/100 ft³.
^d Atmospheric nitrogen.

Emissions	Ilnit	Information	Section	4	οf	6
TH112210112	Unit	IIIIOI IIIAUUII	Section		UI	•

Steam Generator Unit.4

F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment _ 1 of _ 5

1. Segment Description (Process/Fuel (limit to 500 characters):	Type and Associated Operating Method/Mode)				
External Combustion Boilers, Electric Generation, Natural Gas, Boilers > 100 MMBtu/hr					
·					
·					
2 Course Classification Code (CCC):					
2. Source Classification Code (SCC):	1-01-006-01				
3. SCC Units:					
Million Cubic Feet Burned					
4. Maximum Hourly Rate:	5. Maximum Annual Rate:				
0.665	5,825				
6. Estimated Annual Activity Factor:					
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:				
9. Million Btu per SCC Unit:					
	1,030				
10. Segment Comment (limit to 200 c	haracters):				
	d for heat content. Max. sulfur content: 1 grain/100 cubic				
ft.					

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

External Combustion Boilers, Electric Generation, Residual oil, Grade 6 oil; Normal firing, Cofiring with gas

2. Source Classification Code (SCC):

1-01-004-01

3. SCC Units:

1000 gallons burned

4. Maximum Hourly Rate:

1.461

5. Maximum Annual Rate:

12,801

6. Estimated Annual Activity Factor:

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

150

10. Segment Comment (limit to 200 characters):

No.6 Fuel oil to be fired in combination with natural gas at a rate to meet SO2 emission limit. High Heating Value (HHV) reported for heat content.

Segment Description and Rate: Segment __3 __ of __5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):					
External Combustion Boilers, Electric G	eneration, Grade 4 oil; Normal Firing				
	,				
•					
2. Source Classification Code (SCC):					
	-01-005-04				
3. SCC Units:					
1000 gallons burned					
4. Maximum Hourly Rate:	5. Maximum Annual Rate:				
4.757	41,671				
6. Estimated Annual Activity Factor:					
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:				
0.7					
9. Million Btu per SCC Unit:					
	144				
10. Segment Comment (limit to 200 char	racters):				
No. 4 fuel oil permitted for use as a b	ackup fuel to natural gas. High Heating Value (HHV)				
reported for heat content.	and process and an arrange of the control				
<u> </u>	·				

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel	Type and	Associated	Operating	Method/Mode)
(limit to 500 characters):				

External Combustion Boilers, Electric Generation, Distillate Oil, Grade No.1 and No.2

2. Source Classification Code (SCC):

1-01-005-01

3. SCC Units:

1,000 Gallons

4. Maximum Hourly Rate:

4.95

5. Maximum Annual Rate:

43,326

6. Estimated Annual Activity Factor:

7. Maximum Percent Sulfur:

0.25

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

139

10. Segment Comment (limit to 200 characters):

Million Btu per SCC Unit: 138.5 High Heating Value (HHV) reported for maximum heat content of unit fuel will not increase emissions.

Emissions	Unit	Information	Section	4	οf	6
TH112210112	UIII	Inioi mation	Dection		O1	

Steam Generator Unit.4

F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment ____ of ____ 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):						
Electric Utility Boiler - Liquified Petroleum Gas (LPG) - Propane						
·						
	•					
2. Source Classification Code (SCC):	04.040.02					
	-01-010-02					
3. SCC Units:						
Thousand Gallons Burned						
4. Maximum Hourly Rate:	5. Maximum Annual Rate:					
7.54	66,086					
6. Estimated Annual Activity Factor:						
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:					
9. Million Btu per SCC Unit:						
-	91					
10. Segment Comment (limit to 200 characters):						
Million Btu per SCC Unit: 90.5 (rounded to 91). Reported for maximum heat input of unit. Fuel does not increase emissions.						

ATTACHMENT VB-EU4-L2

FUEL ANALYSIS OR SPECIFICATION

			Maximum % Weight Content			
Fuel	Density (lb/gal) ^a	Moisture (%)	Sulfur	Nitrogen	Ash	Heat Capacity
Natural Gas	0.045 ^b		1°	0.43 ^d	_	23,100 BTU/lb 1,030 Btu/ft³
Propane	4.27	_	_	<0.8	_	21,190 BTU/lb 90,500 BTU/gal
No. 2 Fuel Oil	7.1	0.01	0.25	0.02	<0.01	19,500 BTU/lb 138,500 BTU/gal
No. 4 Fuel Oil	7.6	0.05	0.7	0.18	<0.01	19,000 BTU/lb 144,000 Btu/gal
No. 6 Fuel Oil	8.15	0.20	2.5	0.32	0.05	18,400 BTU/lb 150,000 BTU/gal

<sup>At 60 degrees F.
Represented as lb/ft³. Based on heat capacities presented.
Represented as grains/100 ft³.
Atmospheric nitrogen.</sup>

ATTACHMENT VB-EU4-L10 ALTERNATE METHODS OF OPERATION

Fossil Fuel Steam Generator Unit 4

Unit 4 is authorized under 60.43(c) to burn either natural gas or a combination of natural gas and No. 6 or No. 4 fuel oils that is not to exceed the SO₂ emission limit of 0.8 lb/MMBtu. The unit may also burn low-sulfur No. 4 fuel oil (0.7 percent sulfur, maximum). The unit may operate continuously (i.e., 8,760 hours per year).