CERTIFIED MAIL # 7016 0910 0001 0029 0972

RETURN RECEIPT REQUESTED

May 26, 2016

Maricopa County Air Quality Department
Emission Inventory Unit
1001 North Central Avenue, Suite 125
Phoenix, Arizona 85004

Re: Air Permit # 970053 – 2016 Annual Emissions Inventory
Intel Corporation Chandler Campus

To Whom this May Concern,

Intel Corporation operates its Chandler campus at 5000 West Chandler Blvd., Chandler, Arizona 85226-3601 and holds Air Quality Permit # 970053 issued by Maricopa County Air Quality Department (MCAQD). Enclosed is the 2016 Maricopa County Annual Emissions Inventory for the Intel Chandler Campus.

If you have any questions or would like additional information, please feel free to contact Mr. Seth Fronk, Site Environmental Engineer, at 480-206-3781. Please include his mailstop CH7-332 on any written correspondence.

On behalf of Intel Corporation,

Julie Zambroski
Chandler Campus Corporate Services Manager

Attachment

cc. Internal File: 3321-Air-CH / 2016 Air Emissions Inventory

Intel Corporation
5000 W. Chandler Blvd
Chandler, AZ 85226
1.480.554.8080
www.intel.com

MARICOPA COUNTY
AIR QUALITY
DEPARTMENT

Emissions Inventory Unit
(602) 506-6790
(602) 506-6179 (FAX)

2016 Annual Emissions Inventory

Business Form

Due Date: 05/31/2017

Permit Number(s) 970053

1- Owner Name: **Intel Corporation**

2- Business Name: Intel Corp – Chandler Campus ~~(Fab 6)~~

3- Business Street Address (Physical Location): 5000 W Chandler Blvd

4- City: Chandler 5- ZIP Code: 85226

6- Number of Employees at this location: ~~5500~~ 8000 7- Property Size: 160 acres

8- SIC Code: Primary: 3674 Secondary: _____

9- NAICS Code: Primary: 334413 Secondary: _____

10- Preparer of the Inventory (primary contact for technical questions concerning this report):

Name: ~~Leila Kabiri~~ Seth Fronk

Title: Environmental Engineer

Employer: Intel Corporation

Telephone: ~~(480) 552-3781~~ (480)206-3781 Fax: _____

E-mail address of preparer: ~~Leila.kabiri-badr@intel.com~~ seth.a.fronk@intel.com

11- Who should receive the Annual Emissions Inventory Form next year?

Name: ~~Leila Kabiri~~ Seth Fronk

Title: Environmental Engineer

Employer: Intel Corporation

Address: 5000 W Chandler Blvd, MS CH7-332

City: Chandler State: AZ ZIP Code: 85226

Telephone: ~~(480) 552-3781~~ (480)206-3781 Fax: _____

Return the original copy of all completed forms to:
Maricopa County Air Quality Department
Emissions Inventory Unit
1001 N. Central Avenue, Suite 125
Phoenix AZ 85004

31617

For more information, contact the Maricopa County Emissions Inventory Unit at (602) 506-6790.
Detailed instructions, sample forms and reference materials are available at:
http://www.maricopa.gov/aq/divisions/planning_analysis/emissions_inventory/Default.aspx

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Stack Form 2016

Permit Number: **970053**

1	2	3	4	5a OR 5b		6a OR 6b and 6c		7
Stack ID	Stack Type Code*	Stack Height**	Exit Gas Temperature	Velocity feet/sec	Flow Rate acfm	Diameter inside inch	Length / Width inside inch	Stack Name/Description Include Lat/Long coordinates of stack (in decimal degrees)
1	V	59 ft	68 °F	~~70.2~~ 70	100,000	66	72 48	CH1 Fume Scrubber #1&2 (FS-01/02) 33.30773 -111.93095
2	V	42 ft	68 °F	17	1,800	18		RODI Scrubber (SC133-1-00)
4	V	44 ft	68 °F	64	12,000	24		CH4 Corrosive Fume Scrubber #3 (CH4-~~SF~~ FS-03) 33.31029 -111.93264
5	V	44 ft	68 °F	27	5,000	24		CH4 Corrosive Fume Scrubber #4 (Used As Exhaust Only, No water Running) 33.31029 -111.93264
6	V	~~8~~ 78 ft	68 °F	41	12,000	30		CH6 Corrosive Fume Scrubber (Used As Exhaust Only, No water Running) 33.31029 -111.93264
7	V	59 ft	68 °F	61	2,000	10		CH1 Cyanide Scrubber (CH1-R1-FS-01) 33.30773 -111.93095
8	V	90 ft	68 °F	~~146.2~~ 49	150,000	56		CH8 Fume Scrubbers, #1, 2 and 3 (CH8-SC1 33-01, CH8-SC1 33-02, and CH8-SC1 33-03) 33.31039 -111.93239
9	V	90 ft	68 °F	~~31.6~~ 32	5000	22		CH8 Ammonia Scrubber (CH8-SC1 42-01) 33.30978 -111.93151
10	V	90 ft	68 °F	~~31.2~~ 31	2000	14		CH8 Cyanide Scrubber (CH8-SC1 45-01) 33.30978 -111.93151
11	V	59 ft	68 °F	~~11.9~~ 12	1000	16		CH1 Ammonia Scrubber (CH1-SC142-21) 33.30773 -111.93095

* Stack Type Codes: V=Vertical unobstructed H=Horizontal unobstructed D=Downward unobstructed G=Gooseneck
W=Obstructed vertical (e.g. weather cap)

** Stack Height is calculated relative to the surrounding terrain. For example: The stack height of a 10 foot stack sitting on a 20 foot building is 30 feet.

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Control Device Form 2016

Permit Number: **970053**

1 Control ID	2 Installation/ Reconstruction* Date	3 Size or Rated Capacity**	4 Control Type Code	5 Control Device Name/Description	6 Stack ID (if applicable)
1	**7/1/2010**	100,000 cfm	141	CH1 Fume Scrubber #1 and 2 (FS-01/02)	1
2	**7/1/2010**	1000 cfm	038	CH1 Ammonia Scrubber (CH1-SC142-21)	11
6	**10/1/2013**	2000 cfm	141	CH1 Cyanide Scrubber (CH1-R1-FS-01)	7
7	**11/1/2013**	~~15000~~ 150000 cfm	141	CH8 Fume Scrubbers #1, 2, and 3 (CH8-SC1 33-01, CH8-SC1 33-02, and CH8-SC1 33-03)	8
8	**11/1/2013**	5000 cfm	038	CH8 Ammonia Scrubber (CH8-SC1 42-01)	9
9	**11/1/2013**	2000 cfm	141	CH8 Cyanide Scrubber (CH8-SC1 45-01)	10

* Reconstruction means any component of the control device was replaced and the cost (fixed capital) of the new component(s) was more than half of what it would have cost to purchase or construct a new control device.

** Air or water flow rate in cubic feet per minute.

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **1**

2- Process Type/Description: **EC1-B01/02/03; (Combined) BOILER**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020301** **Fuel Comb. Industrial: Gas - Natural**

5- SCC Code **10200603** *(8 digit number)* **Industrial: Nat Gas: <10 MMBTU/HR**

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Ye **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Natural Gas**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **91**

12- Fuel Sulfur Content (in percent) **0** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **MM CU FT**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	84	MM CU FT	N	5						7634 lbs
NOX	100	MM CU FT	N	5						9088 lbs
PM-10	7.6	MM CU FT	N	5						691 lbs
SOX	0.6	MM CU FT	N	5						55 lbs
VOC	5.5	MM CU FT	N	5						500 lbs
HAP&NON	1.89	MM CU FT	N	5						172 lbs
PM-2.5	7.6	MM CU FT	N	5						691 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **2**

2- Process Type/Description: **Boilers EC1-B04/05 (Combined)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020301** **Fuel Comb. Industrial: Gas - Natural**

5- SCC Code **10200602** *(8 digit number)* **Industrial: Nat Gas: 10-100 MMBTU/HR**

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Yea **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Natural Gas**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **58** 12- Fuel Sulfur Content (in percent) **0** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **MM CU FT**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	84	MM CU FT	N	5						4885 lbs
NOX	100	MM CU FT	N	5						5815 lbs
PM-10	7.6	MM CU FT	N	5						442 lbs
SOX	0.6	MM CU FT	N	5						35 lbs
VOC	5.5	MM CU FT	N	5						320 lbs
HAP&NON	1.89	MM CU FT	N	5						110 lbs
PM-2.5	7.6	MM CU FT	N	5						442 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **3**

☐ 2- Process Type/Description: **Boilers EC1-B01/02/03; (Combined)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020202** **Fuel Comb. Industrial: Oil - Distillate**

5- SCC Code **10200503** *(8 digit number)* **Industrial: Distillate Oil: <10 MMBTU/HR**

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

☐ 9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Diesel**

10- [X] Used (input) or [ ] Produced (output) or ☐ Existing(e.g. VMT, acres)

☐ 11- Annual Amount *(a number)* **0** 12- Fuel Sulfur Content (in percent) ____ %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **M GALS**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	5	M GALS	N	5						0.00 lbs
NOX	20	M GALS	N	5						0.00 lbs
PM-10	2	M GALS	N	5						0.00 lbs
SOX	7.2	M GALS	N	5						0.00 lbs
VOC	0.2	M GALS	N	5						0.00 lbs
PM-2.5	7.2	M GALS	N	5						0.00 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **4**

☐ 2- Process Type/Description: **Boilers EC1-B04/05; (Combined)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020202** **Fuel Comb. Industrial: Oil - Distillate**

5- SCC Code **10200502** *(8 digit number)* **Industrial: Distillate Oil: 10-100 MMBTU/HR**

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

☐ 9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Diesel**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

☐ 11- Annual Amount *(a number)* **0** 12- Fuel Sulfur Content (in percent) ____ %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **M GALS**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	5	M GALS	N	5						0.00 lbs
NOX	20	M GALS	N	5						0.00 lbs
PM-10	1	M GALS	N	5						0.00 lbs
SOX	7.1	M GALS	N	5						0.00 lbs
VOC	0.252	M GALS	N	5						0.00 lbs
PM-2.5	7.1	M GALS	N	5						0.00 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **5**

2- Process Type/Description: **CH8 and MSB NALCO Boilers (Combined)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020301** **Fuel Comb. Industrial: Gas - Natural**

5- SCC Code **10200603** *(8 digit number)* **Industrial: Nat Gas: <10 MMBTU/HR**

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Yea **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Natural Gas**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **75.3** (Sep-Dec) 12- Fuel Sulfur Content (in percent) **0** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **MM CU FT**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	20.8	MM CU FT	N	7						1566 lbs
NOX	28.8	MM CU FT	N	7						2168 lbs
PM-10	7.6	MM CU FT	N	5						572 lbs
SOX	0.6	MM CU FT	N	5						45 lbs
VOC	5.5	MM CU FT	N	5						414 lbs
HAP&NON	1.89	MM CU FT	N	5						142 lbs
PM-2.5	7.6	MM CU FT	N	5						572 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID **6**

2- Process Type/Description: **MicroTurbine**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: 020301 **Fuel Comb. Industrial: Gas - Natural**

5- SCC Code 10200603 *(8 digit number)* Industrial: Nat Gas: <10 MMBTU/HR

6- Seasonal Throughput Percent: Dec-Feb **30** % Mar-May **20** % Jun-Aug **20** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **Natural Gas**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **2.64** (Sep-Dec)

12- Fuel Sulfur Content (in percent) **0** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **MM CU FT**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor un* 77.1971 MWh / MMCU FT (use for CO, NOX, VOC only)

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	1.25	MWh	N	7						255 lbs
NOX	0.46	MWh	N	7						93 lbs
PM-10	6.73	MM CU FT	N	5						18 lbs
SOX	3.47	MM CU FT	N	5						9 lbs
VOC	0.1	MWh	N	7						20 lbs
HAP&NON	5.43	MM CU FT	N	5						14 lbs
PM-2.5	6.73	MM CU FT	N	5						18 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 67

2- Process Type/Description: **F6-EG-01 Emergency Generator (>600HP)**
(>600HP)

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599**

5- SCC Code **20200401** *(8 digit number)* **FUEL COMB. INDUSTRIAL: Internal Combustion**
INDUSTRIAL: LG. BORE ENGINE: DIESEL

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a numbe* **13.1**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.6	HRS OF OPERATION	N	7						8 lbs
NOX	3.0	HRS OF OPERATION	N	7						39 lbs
PM-10	0.13	HRS OF OPERATION	N	7						2 lbs
SOX	6.9 0.5	HRS OF OPERATION	N	5						7 lbs
VOC	11.2 0.8	HRS OF OPERATION	N	5						10 lbs
HAP&NON	0.03	HRS OF OPERATION	N	5						0.4 lbs
PM-2.5	0.13	HRS OF OPERATION	N	7						2 lbs

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**
1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 7 8

2- Process Type/Description: **F6-SG-01 Emergency Generator (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.1**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	3.0	HRS OF OPERATION	N	7						39 lbs
NOX	29.0	HRS OF OPERATION	N	7						380 lbs
PM-10	0.30	HRS OF OPERATION	N	7						4 lbs
SOX	6.9 0.5	HRS OF OPERATION	N	5						7 lbs
VOC	11.2 0.8	HRS OF OPERATION	N	5						10 lbs
HAP&NON	0.03	HRS OF OPERATION	N	5						0.4 lbs
PM-2.5	0.30	HRS OF OPERATION	N	7						4 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 8 9

2- Process Type/Description: **CH2 North Emergency Generator (C2-SG-01) (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.0**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	**3.9**	**HRS OF OPERATION**	**N**	**7**						**51 lbs**
NOX	**64.5**	**HRS OF OPERATION**	**N**	**7**						**839 lbs**
PM-10	**1.95**	**HRS OF OPERATION**	**N**	**7**						**25 lbs**
SOX	6.9 0.9	**HRS OF OPERATION**	**N**	**5**						**12 lbs**
VOC	11.2 1.6	**HRS OF OPERATION**	**N**	**5**						**21 lbs**
HAP&NON	**0.06**	**HRS OF OPERATION**	**N**	**5**						**0.8 lbs**
PM-2.5	**1.95**	**HRS OF OPERATION**	**N**	**7**						**25 lbs**

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 9 10

2- Process Type/Description: **CH2 North Emergency Generator (C2-SG-02) (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.0**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	3.9	HRS OF OPERATION	N	7						51 lbs
NOX	64.5	HRS OF OPERATION	N	7						839 lbs
PM-10	1.95	HRS OF OPERATION	N	7						25 lbs
SOX	6.9 0.9	HRS OF OPERATION	N	5						12 lbs
VOC	11.2 1.6	HRS OF OPERATION	N	5						21 lbs
HAP&NON	0.06	HRS OF OPERATION	N	5						1 lbs
PM-2.5	1.95	HRS OF OPERATION	N	7						25 lbs

51
839
25
7
10
0.8
25

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 10 11

2- Process Type/Description: **CH2 North Emergency Generator (C2-SG-03) (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.5**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	5.9	HRS OF OPERATION	N	7						80 lbs
NOX	55.1	HRS OF OPERATION	N	7						744 lbs
PM-10	0.36	HRS OF OPERATION	N	7						5 lbs
SOX	6.0 1.32	HRS OF OPERATION	N	5						18 lbs
VOC	11.2 2.29	HRS OF OPERATION	N	5						31 lbs
HAP&NON	0.09	HRS OF OPERATION	N	5						1 lbs
PM-2.5	0.36	HRS OF OPERATION	N	7						5 lbs

80
744
5
7
11
1.2
5

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 11 12

2- Process Type/Description: **RODI Generator (RODI-EG-01) (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **12.7**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	3.0	HRS OF OPERATION	N	7						38 lbs
NOX	29.0	HRS OF OPERATION	N	7						368 lbs
PM-10	0.30	HRS OF OPERATION	N	7						4 lbs
SOX	6.9 0.5	HRS OF OPERATION	N	5						6 lbs
VOC	11.2 0.8	HRS OF OPERATION	N	5						10 lbs
HAP&NON	0.03	HRS OF OPERATION	N	5						0.4 lbs
PM-2.5	0.30	HRS OF OPERATION	N	7						4 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 12 13

2- Process Type/Description: **CH4 Generator (C4-EG-01) (>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.3**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.7	HRS OF OPERATION	N	7						9 lbs
NOX	19.0	HRS OF OPERATION	N	7						253 lbs
PM-10	0.83	HRS OF OPERATION	N	7						11 lbs
SOX	6.9 0.3	HRS OF OPERATION	N	5						4 lbs
VOC	11.2 0.5	HRS OF OPERATION	N	5						7 lbs
HAP&NON	0.02	HRS OF OPERATION	N	5						0 lbs
PM-2.5	0.83	HRS OF OPERATION	N	7						11 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 13 14

2- Process Type/Description: **CH6 Generator (C6-EG-1)(>600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **15.1**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	**8.0**	**HRS OF OPERATION**	**N**	**7**						**121 lbs**
NOX	**46.6**	**HRS OF OPERATION**	**N**	**7**						**704 lbs**
PM-10	**0.66**	**HRS OF OPERATION**	**N**	**7**						**10 lbs**
SOX	6.9 0.6	**HRS OF OPERATION**	**N**	**5**						**9 lbs**
VOC	11.2 1.1	**HRS OF OPERATION**	**N**	**5**						**17 lbs**
HAP&NON	**0.04**	**HRS OF OPERATION**	**N**	**5**						**1 lbs**
PM-2.5	**0.66**	**HRS OF OPERATION**	**N**	**7**						**10 lbs**

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 14 15

2- Process Type/Description: **CH7 Generator (>600HP) (C7-EG-01)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.4**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	**1.5**	**HRS OF OPERATION**	**N**	**7**						**20 lbs**
NOX	**14.3**	**HRS OF OPERATION**	**N**	**7**						**192 lbs**
PM-10	**0.23**	**HRS OF OPERATION**	**N**	**7**						**3 lbs**
SOX	6.9 0.3	**HRS OF OPERATION**	**N**	**5**						**4 lbs**
VOC	11.2 0.5	**HRS OF OPERATION**	**N**	**5**						**7 lbs**
HAP&NON	**0.02**	**HRS OF OPERATION**	**N**	**5**						**0.3 lbs**
PM-2.5	**0.23**	**HRS OF OPERATION**	**N**	**7**						**3 lbs**

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 15 16

2- Process Type/Description: **CH7 Generator (>600HP) (C7-SG-02)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.70**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	3.9	HRS OF OPERATION	N	7						53 lbs
NOX	64.5	HRS OF OPERATION	N	7						884 lbs
PM-10	1.95	HRS OF OPERATION	N	7						27 lbs
SOX	6.9 0.9	HRS OF OPERATION	N	5						12 lbs
VOC	11.2 1.6	HRS OF OPERATION	N	5						22 lbs
HAP&NON	0.06	HRS OF OPERATION	N	5						1 lbs
PM-2.5	1.95	HRS OF OPERATION	N	7						27 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 16 17

2- Process Type/Description: **CH7 Generator (>600HP) (C7-SG-01)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **12.40**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	3.9	HRS OF OPERATION	N	7						48 lbs
NOX	64.5	HRS OF OPERATION	N	7						800 lbs
PM-10	1.95	HRS OF OPERATION	N	7						24 lbs
SOX	6.9 0.9	HRS OF OPERATION	N	5						11 lbs
VOC	11.2 1.6	HRS OF OPERATION	N	5						20 lbs
HAP&NON	0.06	HRS OF OPERATION	N	5						1 lbs
PM-2.5	1.95	HRS OF OPERATION	N	7						24 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 18 ~~117~~

2- Process Type/Description: **CH8 Generator (>600HP) (C8-EG-01)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **14.30**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.5	HRS OF OPERATION	N	7						7 lbs
NOX	8.1	HRS OF OPERATION	N	7						115 lbs
PM-10	0.08	HRS OF OPERATION	N	7						1 lbs
SOX	~~6.9~~ 0.31	HRS OF OPERATION	N	5						4 lbs
VOC	~~11.2~~ 0.53	HRS OF OPERATION	N	5						8 lbs
HAP&NON	0.02	HRS OF OPERATION	N	5						0.3 lbs
PM-2.5	0.08	HRS OF OPERATION	N	7						1 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

General Process Form **2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 19 ~~118~~

2- Process Type/Description: **CH8 Generator (>600HP) (C8-EG-02)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200401** *(8 digit number)* **INDUSTRIAL: LG. BORE ENGINE: DIESEL**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.20**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.5	HRS OF OPERATION	N	7						7 lbs
NOX	8.1	HRS OF OPERATION	N	7						106 lbs
PM-10	0.08	HRS OF OPERATION	N	7						1 lbs
SOX	~~6.9~~ 0.31	HRS OF OPERATION	N	5						4 lbs
VOC	~~11.2~~ 0.53	HRS OF OPERATION	N	5						7 lbs
PM-2.5	0.08	HRS OF OPERATION	N	7						1 lbs
HAP&NON	0.02	HRS OF OPERATION	N	5						0.3 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 50 20

☐ 2- Process Type/Description: **CH2 Emergency Generator C2-EG-1 (<600 HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

☐ 9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- ☒ Used (input) or ☐ Produced (output) or ☐ Existing(e.g. VMT, acres)

☐ 11- Annual Amount *(a number)* **16.9**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.5 0.42	HRS OF OPERATION	N	7						7 lbs
NOX	8.7 7.28	HRS OF OPERATION	N	7						123 lbs
PM-10	0.4 0.35	HRS OF OPERATION	N	7						6 lbs
SOX	39.7 0.13	HRS OF OPERATION	N	5						2 lbs
VOC	49.3 0.78	HRS OF OPERATION	N	5						13 lbs
HAP&NON	0.01	HRS OF OPERATION	N	5						0.2 lbs
PM-2.5	0.4 0.35	HRS OF OPERATION	N	7						6 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 51 21

2- Process Type/Description: **CH3 Emergency Generator C3-EG-1 (<600 HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Yea **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **12.8**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.2	HRS OF OPERATION	N	7						3 lbs
NOX	1.6	HRS OF OPERATION	N	7						20 lbs
PM-10	0.03	HRS OF OPERATION	N	7						0.4 lbs
SOX	39.7 0.1	HRS OF OPERATION	N	5						1 lbs
VOC	49.3 0.6	HRS OF OPERATION	N	5						8 lbs
HAP&NON	0.01	HRS OF OPERATION	N	5						0.1 lbs
PM-2.5	0.03	HRS OF OPERATION	N	7						0.4 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 52 22

2- Process Type/Description: **CH3 Emergency Generator C3-SG-1 (<600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **14.61** 12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	1.8	HRS OF OPERATION	N	7						26 lbs
NOX	6.6	HRS OF OPERATION	N	7						96 lbs
PM-10	0.22	HRS OF OPERATION	N	7						3 lbs
SOX	39.7 0.2	HRS OF OPERATION	N	5						3 lbs
VOC	49.3 1.3	HRS OF OPERATION	N	5						19 lbs
HAP&NON	0.02	HRS OF OPERATION	N	5						0.3 lbs
PM-2.5	0.22	HRS OF OPERATION	N	7						3 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 53 23

2- Process Type/Description: **Emergency Generator ND-EG-1 (<600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **14.4** 12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	0.2	HRS OF OPERATION	N	7						3 lbs
NOX	1.6	HRS OF OPERATION	N	7						23 lbs
PM-10	0.03	HRS OF OPERATION	N	7						0.43 lbs
SOX	39.7 0.1	HRS OF OPERATION	N	5						1 lbs
VOC	49.3 0.6	HRS OF OPERATION	N	5						9 lbs
HAP&NON	0.01	HRS OF OPERATION	N	5						0.1 lbs
PM-2.5	0.03	HRS OF OPERATION	N	7						0.43 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 54 24

2- Process Type/Description: **CH4 Emergency Generator C4-SG-2 (<600 HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye: **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **13.6**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	1.8	HRS OF OPERATION	N	7						24 lbs
NOX	6.6	HRS OF OPERATION	N	7						90 lbs
PM-10	0.22	HRS OF OPERATION	N	7						3 lbs
SOX	39.7 0.2	HRS OF OPERATION	N	5						3 lbs
VOC	49.3 1.3	HRS OF OPERATION	N	5						18 lbs
HAP&NON	0.02	HRS OF OPERATION	N	5						0.3 lbs
PM-2.5	0.22	HRS OF OPERATION	N	7						3 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 55 25

2- Process Type/Description: **East Fire Pump Emergency Generator (<600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **30.3**

12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information				Control Device Information					
15	16	17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)	EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	1.6	HRS OF OPERATION	N	7						48 lbs
NOX	7.4	HRS OF OPERATION	N	7						224 lbs
PM-10	0.53	HRS OF OPERATION	N	7						16 lbs
SOX	39.7 0.1	HRS OF OPERATION	N	5						3 lbs
VOC	49.3 0.6	HRS OF OPERATION	N	5						18 lbs
HAP&NON	0.01	HRS OF OPERATION	N	5						0.3 lbs
PM-2.5	0.53	HRS OF OPERATION	N	7						16 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Facto
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 56 26

2- Process Type/Description: **West Fire Pump Emergency Generator (<600HP)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: **020599** **FUEL COMB. INDUSTRIAL: Internal Combustion**

5- SCC Code **20200102** *(8 digit number)* **INDUSTRIAL: DISTILLATE OIL: RECIP**

6- Seasonal Throughput Percent: Dec-Feb **20** % Mar-May **10** % Jun-Aug **30** % Sep-Nov **40** %

7- Normal Operating Schedule: Hours/Day **1** Days/Week **1** Hours/Year **52** Weeks/Ye **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* **RUN TIME HOURS**

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)* **23.1** 12- Fuel Sulfur Content (in percent) **0.0015** %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* **HRS OF OPERATION**

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information					Control Device Information					
15	16		17	18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)		EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
CO	1.6		HRS OF OPERATION	N	7						37 lbs
NOX	7.4		HRS OF OPERATION	N	7						171 lbs
PM-10	0.53		HRS OF OPERATION	N	7						12 lbs
SOX	39.7 0.1		HRS OF OPERATION	N	5						2 lbs
VOC	49.3 0.6		HRS OF OPERATION	N	5						14 lbs
HAP&NON	0.01		HRS OF OPERATION	N	5						0.2 lbs
PM-2.5	0.53		HRS OF OPERATION	N	7						12 lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 17 27

2- Process Type/Description: **Cooling Towers (EC)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: 149999 140699

5- SCC Code **38500101** *(8 digit number)*

6- Seasonal Throughput Percent:

7- Normal Operating Schedule:

8- Typical Hours of Operation *(military time)*

9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")*

10- [X] Used (input) or [ ] Produced (output) or [ ] Existing(e.g. VMT, acres)

11- Annual Amount *(a number)*

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)*

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

Miscellaneous: Other (removed from Permit December 2015, see Permit Rev Number 2.0.3.0)

Cooling Towers: PROC Cooling: Mech Draft

Dec-Feb **10** % Mar-May **20** % Jun-Aug **40** % Sep-Nov **30** %

Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Yea **52**

Start **00:00** End **23:59**

Water Flow Rate W / TDS = 3936

12- Fuel Sulfur Content (in percent) ____ %

MM GALS

15	Emission Factor (EF) Information			18	19	Control Device Information					25
	16		17			20	21	22	23	24	
Pollutant	Emission Factor (EF) (number)		EF Units (lbs per)	Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
PM-10	19		MM GALS	N	5						lbs
HAP&NON	0.059		MM GALS	N	5						lbs
PM-2.5	2.528		MM GALS	N	5						lbs
											lbs
											lbs
											lbs
											lbs
											lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***4General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 18 28

☐ 2- Process Type/Description: **Cooling Towers (MSB)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: 149999 140699

5- SCC Code **38500101** *(8 digit number)*

Miscellaneous: Other (removed from Permit December 2015, see Permit Rev Number 2.0.3.0)

Cooling Towers: PROC Cooling: Mech Draft

6- Seasonal Throughput Percent: Dec-Feb **10** % Mar-May **20** % Jun-Aug **40** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

☐ 9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")*

Water Flow Rate W / TDS = 3922

10- ☒ Used (input) or ☐ Produced (output) or ☐ Existing(e.g. VMT, acres)

☐ 11- Annual Amount *(a number)*

12- Fuel Sulfur Content (in percent) ____ %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* MM GALS

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information					Control Device Information						
15	16		17		18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)		EF Units (lbs per)		Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
PM-10	19		MM GALS		N	5						lbs
HAP&NON	0.238		MM GALS		N	5						lbs
PM-2.5	1.265		MM GALS		N	5						lbs
												lbs
												lbs
												lbs
												lbs
												lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

***General Process Form* 2016**

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process ID 26 29

☐ 2- Process Type/Description: **Cooling Towers (CH8)**

3- Stack ID(s) *(only if required on Stack Form)*

4- Process TIER Code: 140999 140699

5- SCC Code **38500101** *(8 digit number)*

Miscellaneous: Other (removed from Permit December 2015, see Permit Rev Number 2.0.3.0)

Cooling Towers: PROC Cooling: Mech Draft

6- Seasonal Throughput Percent: Dec-Feb **10** % Mar-May **20** % Jun-Aug **40** % Sep-Nov **30** %

7- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

8- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

☐ 9- Emissions based on *(name of material or other parameter, e.g. "rock", "diesel", "vehicle miles traveled")* Water Flow Rate W / TDS = 2205

10- ☒ Used (input) or ☐ Produced (output) or ☐ Existing(e.g. VMT, acres)

☐ 11- Annual Amount *(a number)*

12- Fuel Sulfur Content (in percent) ____ %

13- Units of Measure *(for example: tons, gallons, million cu ft, acres, units produced, etc.)* MM GALS

14- Unit Conversion Factor *(if needed to convert Unit of Measure to correlate with emission factor units)*

	Emission Factor (EF) Information					Control Device Information						
15	16		17		18	19	20	21	22	23	24	25
Pollutant	Emission Factor (EF) (number)		EF Units (lbs per)		Controlled EF? Yes or No	Calculation Method Code*	Capture % Efficiency	Primary Control Device ID	Secondary Control Device ID	Control Device(s) % Efficiency	Efficiency Reference Code**	Estimated Actual Emissions
PM-10	19		MM GALS		Y	6						lbs
HAP&NON	0.238399		MM GALS		Y	6						lbs
PM-2.5	1.265		MM GALS		Y	6						lbs
												lbs
												lbs
												lbs
												lbs

*** Calculation Method Codes**

1 = Continuous Emissions Monitoring Measurements
2 = Best Guess/Engineering Judgement
3 = Material Balance
4 = Source Test Measurements (Stack Test)
5 = AP-42/FIRE Method or Emission Factor
6 = State or Local Agency Emission Factor
7 = Manufacturer Specifications
8 = Site-Specific Emission Factor
9 = Vendor Emission Factor
10 = Trade Group Emission Factor

**** Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best Guess / engineering estimate
5 = Calculated, based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Evaporative Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

1- Process Type/Description: **Chandler Sitewide**

2- Process TIER Code: **080599** **Solvent Use: Other Industrial**

3- Seasonal Throughput Percent: Dec-Feb **25** % Mar-May **25** % Jun-Aug **25** % Sep-Nov **25** %

4- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

5- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

6 Process ID	7 Stack ID(s)	8 Material Type	9 Annual Usage Input	lb or gal	10 VOC, HAP&NON or NHx	11 Emission Factor	EF Units (lbs per)	12 Pounds of pollutant* sent	13 Capture % Efficiency	14 Control ID	Control % Efficiency	Control Efficiency Code**	15 Estimated Emissions
101		IPA WIPES 6%	4946	LB	VOC	0.06	LB		100 %		0 %		297
102		IPA WIPES 100%	1768	LB	VOC	1	LB		100 %		0 %		1768
103		IPA (PROCESS/NONPROCESS)	810	LB	VOC	1	LB		100 %		0 %		810
104		FUGITIVE LAB CHEMISTRIES	848	LB	VOC	0.72 0.388	LB		100 %		0 %		329
105		FUGITIVE LAB CHEMISTRIES	81	LB	HAP&NON	0.62 0.41	LB		100 %		0 %		33

NOTE: Do NOT change pre-printed Process ID numbers. See the instructions for information on how to delete materials that are no longer used, or to assign Process ID numbers for new materials.

*If you have off-site recycling/disposal of any of the materials listed above, you must complete an Off-Site Recycling/Disposal Form to receive credit for reduced emissions.

** **Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best guess / engineering estimate
5 = Calculated based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Evaporative Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

☐ 1- Process Type/Description: **Process Encapsulation In Chandler Assembly Test; CH4**

2- Process TIER Code: **080599** **Solvent Use: Other Industrial**

3- Seasonal Throughput Percent: Dec-Feb **25** % Mar-May **25** % Jun-Aug **25** % Sep-Nov **25** %

4- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

5- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

6	7	8	9		10	11		12	13	14			15
Process ID	Stack ID(s)	Material Type	Annual Usage Input	lb or gal	VOC, HAP&NON or NHx	Emission Factor	EF Units (lbs per)	Pounds of pollutant* sent	Capture % Efficiency	Control ID	Control % Efficiency	Control Efficiency Code**	Estimated Emissions
201	1, 4, & 6	FLUX	2508	LB	VOC	0.218	LB		100 %		0 %		547
202	4 & 6	UNDERFILL	7750	LB	VOC	0.01 0.05	LB		100 %		0 %		388
203	4 & 6	SOLDER PASTE	2280	LB	VOC	0.2 0.166	LB		100 %		0 %		378
205	4 & 6	ADHESIVE	1324	LB	VOC	0.2 0.088	LB		100 %		0 %		117
206	4 & 6	SOLVENTS/ETCHANT/ PHOTORESIST	4890	LB	VOC	1	LB		100 %		0 %		4890
207	4	Ammonia Compounds	202	LB	NHx	1	LB		100 %		0 %		202

NOTE: Do NOT change pre-printed Process ID numbers. See the instructions for information on how to delete materials that are no longer used, or to assign Process ID numbers for new materials.

*If you have off-site recycling/disposal of any of the materials listed above, you must complete an Off-Site Recycling/Disposal Form to receive credit for reduced emissions.

** **Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best guess / engineering estimate
5 = Calculated based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Evaporative Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

☐ 1- Process Type/Description: **SUBSTRATE PACKAGING TECHNOLOGY DEVELOPMENT (SPTD), CH-1,CH8**

2- Process TIER Code: **080599** **SOLVENT USE: OTHER INDUSTRIAL**

3- Seasonal Throughput Percent: Dec-Feb **25** % Mar-May **25** % Jun-Aug **25** % Sep-Nov **25** %

4- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

5- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

6	7	8	9		10	11		12	13	14			15
Process ID	Stack ID(s)	Material Type	Annual Usage Input	lb or gal	VOC, HAP&NON or NHx	Emission Factor	EF Units (lbs per)	Pounds of pollutant* sent off	Capture % Efficiency	Control ID	Control % Efficiency	Control Efficiency Code**	Estimated Emissions (lbs/yr)
301	1, 8, and 11	AMMONIA COMPOUNDS	177	LB	NHx & VOC	1	LB		100%	2, 1 & 8	0.00% 0%	6 2	177
304	1 & 8	Glycol Ethers	51.00	LB	VOC	1	LB		100%	1 & 7	0%	4	51
305	1 & 8	ETHYLENE GLYCOL	95.00	LB	VOC	1	LB		100%	1 & 7	0%	4	95
307	1 ,8,9 & 11	FORMIC ACID	1941	LB	VOC	1	LB		100%	1 & 8	0%	4	1941
308	9 & 11	ACETIC ACID	955	LB	VOC	1	LB		100%	1 & 2	0%	4	955
311	1 & 8	NICKEL	132.00	LB	HAP&NON	1	LB		100%	1 & 7	100%	4	0
312	1 & 8	HCl	230	LB	HAP&NON	1	LB		100%	1 & 7	0%	4	230
313	1 & 8	METHANOL	1422	LB	VOC	1	LB		100%	1 & 7	0%	4	1422
314	1 & 8	FORMALDEHYDE	606.00	LB	VOC	1	LB		100%	1 & 7	9.4%	2	549
316	NA	Ethanol	11,088	LB	VOC	1	LB		100%	NA	0%	4 6	11,088

NOTE: Do NOT change pre-printed Process ID numbers. See the instructions for information on how to delete materials that are no longer used, or to assign Process ID numbers for new materials.

*If you have off-site recycling/disposal of any of the materials listed above, you must complete an Off-Site Recycling/Disposal Form to receive credit for reduced emissions.

** **Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best guess / engineering estimate
5 = Calculated based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Evaporative Process Form 2016

Permit number(s) **970053**

Place an X in any gray cell to mark data requested to be held confidential. See Instructions for requirements for information to be deemed confidential

☐ 1- Process Type/Description **SUBSTRATE PACKAGING TECHNOLOGY DEVELOPMENT (SPTD), CH-1,** CH8

2- Process TIER Code: **080599** **SOLVENT USE: OTHER INDUSTRIAL**

3- Seasonal Throughput Percent: Dec-Feb **25** % Mar-May **25** % Jun-Aug **25** % Sep-Nov **25** %

4- Normal Operating Schedule: Hours/Day **24** Days/Week **7** Hours/Year **8760** Weeks/Year **52**

5- Typical Hours of Operation *(military time)* Start **00:00** End **23:59**

6	7	8	9		10	11		12	13	14			15
Process ID	Stack ID(s)	Material Type	Annual Usage Input	lb or gal	VOC, HAP&NON or NHx	Emission Factor	EF Units (lbs per)	Pounds of pollutant* sent	Capture % Efficiency	Control ID	Control % Efficiency	Control Efficiency Code**	Estimated Emissions
317	1&8	MANGANESE COMPOUND	4473.00	LB	HAP&NON	1	LB		100%	1 & 7	100%	4	0
318	7	Cyanide Compound	540.00	LB	HAP&NON	1	LB		100%	6	100%	4	0
319	NA	Propanol	1774	LB	VOC	1	LB		100%	NA	0%	4	1774
320	NA	NOx	10600	LB	NA	1	LB		100%	NA	0%	4	10600

NOTE: Do NOT change pre-printed Process ID numbers. See the instructions for information on how to delete materials that are no longer used, or to assign Process ID numbers for new materials.

*If you have off-site recycling/disposal of any of the materials listed above, you must complete an Off-Site Recycling/Disposal Form to receive credit for reduced emissions.

** **Control Efficiency Reference Codes**

1 = Tested efficiency / EPA reference method
2 = Tested efficiency / other source test method
3 = Design value from manufacturer
4 = Best guess / engineering estimate
5 = Calculated based on material balance
6 = Estimated, based on a published value

Maricopa County
Air Quality Department

Emission Inventory Unit
1001 N. Central Ave., Ste. 595
Phoenix, AZ 85004
Phone (602) 506-6790

Data Certification Form 2016

Permit number(s) **970053**

For EACH pollutant listed, total up all emissions recorded on your General Process and Evaporative Process Forms. Enter these numbers in column 1, "Totals from Process Forms". Report any emissions from accidental releases in column 2. Add the figures in each row across, and enter the result in column 3, "Total Emissions."

Summary of 2015 Annual Emissions: (expressed in pounds)	**(1) Totals from Process Forms**	**(2) + Accidental Releases**	**(3) =TOTAL EMISSIONS**	Permit Limits (12 month Rolling) lb/yr
CO	15,021	0	15,021	46,700
NH_X	379	0	379	NA
Lead	0	0	0	NA
HAP&NON	710	0	710	7,631
VOC	28,423	0	28,423	40,000
NO_x	34,773	0	34,773	75,000
SO_x	269	0	269	1,100
PM_{10}	1,906	0	1,906	8,000
PM2.5	1,906	0	1,906	8,000

TO COMPLETE YOUR EMISSIONS INVENTORY REPORT:

- Complete the Confidentiality Statement below.
- Sign and date this form where indicated.
- Send the **original** copy of your completed forms to: Maricopa County Air Quality Dept., Emissions Inventory Unit, 1001 N. Central Avenue, Suite 125, Phoenix, AZ 85004.
- Keep a copy of all forms for your records.

CONFIDENTIALITY STATEMENT:

This annual emissions report contains requests to keep some data confidential. ☐ YES ☒ NO

If you check "YES", you must submit documentation and meet certain requirements before your data can be deemed confidential. See enclosed instructions for further details.

CERTIFICATION STATEMENT:

I declare under penalty of perjury that the data (e.g. inputs, emission factors, controls, and annual emission) presented herein represents the best available information and is true, accurate and complete to the best of my knowledge.

Julie Zambroski 5/25/17 **(480) 554-1574**

Signature of owner/business officer | Date of signature | Telephone number

Julie Zambroski | **Corporate Services Manager**

Type or print full name of owner/business officer | Type or print full title