

August 7, 2023

**EMISSIONS INVENTORY ID: 351** 

SD State University Attn: Lilly Sabet 5500 Campanile Dr Mail Code 1243 San Diego, CA 92182

#### 2021 CTR/TOXICS/CEI APPROVED EMISSIONS INVENTORY REPORT

On February 15, 2023, San Diego Air Pollution Control District had mailed you a revised final copy of the 2021 CTR/Toxics/CEI Emissions Inventory Report. The San Diego Air Pollution Control District has prepared the attached 2021 Approved Revised CTR/Toxics/CEI Emissions Inventory Report for SD State University located at 5500 Campanile Dr in the city of San Diego, CA. The District has evaluated the additional revisions requested by the facility and applied those approved to the Emissions report.

This report has been prepared as required by District Rule 19.3. The Emissions Inventory has been evaluated per the requirements of Criteria and Toxic Reporting Regulation (CTR, 17CCR 93400 et. Seq.), AB2588 "Hot Spots" Program (H&SC 44300 et. Seq.), Emissions Inventory Criteria and Guidelines Regulation (17CCR 93300.5) and/or District Rule 19.3.

This Emissions Inventory resulted in the following approved revised/refined prioritization scores: cancer = 12.54, chronic = 0.06, and acute = 3.82. Receptor distances are presented in the attached HHRP Specific Distance Report. Based on these scores, SD State University is not required to submit a health risk assessment (HRA) for the year 2021 at this time.

The approved report includes a summary of total facility emissions and the 2021 process data provided to the District by the facility. A summary of emissions by device and material with emission factors used by the District can be provided upon request.

Federal law requires a signed Emissions Statement from each facility that emits twenty-five (25) tons or more per year of oxides of nitrogen (NOx) or volatile organic compounds (VOC). If applicable, please sign and return the attached Emissions Statement form.

Please contact Hans Fritschen at 858-414-9097 or <u>hans.fritschen@sdapcd.org</u> if you have any questions or comments.

Attachments:

- 1. Facility Emissions
- 2. Completed Data Request Form
- 3. HHRP Specific Distance Report
- 4. Emissions Statement Note: email copy sent on August 7, 2023, care of: <u>lsabet@sdsu.edu</u>



#### FACILITY EMISSIONS 2021 EMISSIONS INVENTORY REPORT

The San Diego Air Pollution Control District has prepared emissions estimates for the facility below.

Facil	ity: SD State University		5500 Campanile Dr
EIF I	<b>D:</b> 351		San Diego, CA 92182
		Annual Emissions	Hourly Emissions
#	Criteria Pollutant	(tons/yr)	(lbs/hr)
1	Carbon Monoxide (CO)	1.773E+000	6.320E+001
2	Nitrogen Oxides (NOx)	1.658E+001	1.950E+002
3	Particulate Matter (PM10)	2.523E+000	9.713E+000
4	Sulfur Oxides (SOx)	2.220E-001	3.065E-001
5	Total Organic Gases (TOG)	4.251E+000	3.030E+001
6	Total Particulates (TSP)	2.523E+000	9.809E+000
7	Volatile Organic Compounds (VOC)	8.659E-001	1.410E+001
ш	Tauis Air Cantoninant	Annual Emissions	Hourly Emissions
Ħ	Toxic Air Contaminant	(lbs/yr)	(lbs/hr)
1	1,3-Butadiene	1.153E+000	1.178E-001
2	2,2,4-Trimethylpentane	1.856E-001	6.300E-003
3	Acetaldehyde	3.275E+001	4.366E-001
4	Acrolein	4.857E+000	2.024E-002
5	Arsenic (inorganic)	6.310E-003	8.648E-004
6	Benzene	9.799E+000	1.087E-001
7	Cadmium	5.915E-003	8.107E-004
8	Chlorobenzene	7.887E-004	1.081E-004
9	Chromium, Hexavalent	3.943E-004	5.405E-005
10	Chromium, Non-Hexavalent	1.972E-003	2.702E-004
11	Copper	1.617E-002	2.216E-003
12	Dichlorobenzene	1.473E-002	3.936E-005
13	Diesel Particulate	6.285E+001	7.530E+000
14	Ethyl Benzene	2.391E+001	1.612E-002
15	Formaldehyde	5.341E+002	1.157E+000
16	Hexane	2.259E+001	8.618E-002
17	Hydrogen Chloride	7.335E-001	1.005E-001
18	Lead (inorganic)	3.273E-002	4.486E-003
19	Manganese	1.222E-002	1.675E-003
20	Mercury (inorganic)	7.887E-003	1.081E-003
21	Methanol	2.945E-002	1.938E-003
22	Methylene Chloride	3.776E-004	2.484E-005
23	Naphthalene	1.031E+000	1.110E-002
24	Nickel (except nickel oxide)	1.538E-002	2.108E-003



#### FACILITY EMISSIONS 2021 EMISSIONS INVENTORY REPORT

25	PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	1.742E+000	2.028E-002
26	Propylene	1.842E+000	2.524E-001
27	Selenium	8.676E-003	1.189E-003
28	Toluene	9.778E+001	1.050E-001
29	Xylenes	4.791E+001	4.528E-002
30	Zinc	8.833E-002	1.211E-002



San Diego.County Air Pollution Control District

EIFID	351
SRID	APCD1976-SITE-00208
Facility	SD State University
Reporting Year	2021
Generated	2023-07-20

EIF ID	351	Site Name	SD State University
Site Ir	nformation	PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	0
Site Address:	5500 Campanile Dr	Permit Description:	NON-PERMITTED DEVICES
DEVICE II	NFORMATION	MATERIALI	NFORMATION
Device:	20000	Material:	1
Device Description:	IF APPLICABLE, FACILITY-WIDE WIPE SOLVENT OPERATIONS ON SITE, NOT ASSOCIATED WITH ANY PERMITTED	EQ Name:	J01-000
	OPERATIONS, NOTE REPORTED ELSEWHERE		
MATERIAL/PRO	CESS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Material Name:		RELEASE (FUGITIVE EMISSIONS)	
Manufacturer/Supplier:		Diameter (ft):	
Annual Material Usage (Ibs/year):	0	Exhaust Gas Temperature (F):	
Maximum Hourly Usage (lbs/hour):	0	Exhaust Gas Flowrate (CFM):	
Process Type:		Height Above Ground (ft):	
- GMAW (yes/no):	No	Control Device Description	
- SMAW (yes/no):	No	Capture Efficiency (%):	0
- MIG (yes/no):	No	Volatile Control Efficiency (%):	
- TIG (yes/no):	No	Non-Volatile Control Efficiency (%):	
- Other (please describe):		STACK (DUCTED EMISSIONS)	
Device Operating Schedule:		Emission Control Method:	
- Daily Operation (hours/day):	0	Volatile Control Efficiency (%):	
- Weekly Operation (days/week):	0	Non-Volatile Control Efficiency (%):	
- Annual Operation (days/year):	0	Additional Information:	
		Capture Efficiency (%):	100
		LOCATION	
		Longitude (Decimal Degrees)	
		Latitude (Decimal Degrees)	
		Datum	
		Is this location confidential?:	
Non-Default	Emission Factors	Non-Defau	t Speciations
Using only default values		Using only default values	

EIF ID	351	Site Name	SD State University
Site Inf	ormation	PERMIT INF	ORMATION
SRID	APCD1976-SITE-00208	Permit Number	0
Site Address:	5500 Campanile Dr	Permit Description:	NON-PERMITTED DEVICES
DEVICE INI	FORMATION	MATERIALIN	FORMATION
Device:	987762	Material:	1
Device Description:	CERTIFICATE OF EXEMPTION SOLVENT CLEANING OPERATION: ONE (1) REMOTE RESERVOIR CLEANER MANUFCTURER: HANDI-KLEEN MODEL PL36 DEGREASING SOLVENT: SEE ATTACHMENT AA (PREVIOUSLY PERMIT NUMBER 985066)	EQ Name:	E01-D01
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Material Name:	999	Height Above Ground (ft):	
Other:	STODDARD	Diameter (ft):	0
Manufacturer/Supplier:		Exhaust Gas Temperature (F):	0
Annual Material Usage (gals/year):	0	Exhaust Gas Flowrate (CFM):	0
Waste Shipped Off Site (gals/year):	0	Control Device Description	
Density (lbs/gal):	6.57	Capture Efficiency (%):	0
VOC Content (lbs/gal):	6.57	Volatile Control Efficiency (%):	0
Process Type:		Non-Volatile Control Efficiency (%):	0
- Surface Prep. (yes/no):	No	Emission Control Method:	
- Hand Wipe (yes/no):	No	Volatile Control Efficiency (%):	0
- Clean-up (yes/no):	No	Non-Volatile Control Efficiency (%):	0
- Other (describe):		Additional Information:	
Device Operating Schedule:		Capture Efficiency (%):	100
- Daily Operation (hours/day):	0	STACK (DUCTED EMISSIONS)	
- Weekly Operation (days/week):	0	RELEASE (FUGITIVE EMISSIONS)	
- Annual Operation (days/year):	0	LOCATION	
		Longitude (Decimal Degrees)	
		Latitude (Decimal Degrees)	
		Datum	
		Is this location confidential?:	
Non-Default F	mission Factors	Non-Defaul	t Speciations
Using only default values		Using only default values	

	251	Sita Nama	SD State University
		Site Maine	SD State Oniversity
Site In	formation	PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	1
Site Address:	5500 Campanile Dr	Permit Description:	FACILITY-WIDE PERMITTED DEVICES
			-
DEVICE IN	FORMATION	MATERIAL I	NFORMATION
Device:	3000	Material:	1
Device Description:	EMERGENCY ENGINE GENERATORS NATURAL GAS-FIRED (4 CYCLE, RICH-BURN, NO CONTROLS)	EQ Name:	A01-E18
MATERIAL/PROC	CESS INFORMATION	PHYSICAL SOUR	RCE INFORMATION
Fuel Type :	999	Height Above Ground (ft):	
Other Fuel Type :	NATURAL GAS	Diameter (ft):	0
Design Capacity		Exhaust Gas Temperature (F):	0
Design Capacity Units (mmBTU/hr,		Exhaust Gas Flowrate (CFM):	0
BHP, etc)		Control Device Description	
Annual Fuel Usage (million ft3/year):	0.00944	Volatile Control Efficiency (%):	0
Maximum Fuel Usage (ft3/min):	10.4	Non-Volatile Control Efficiency (%):	0
Fuel Sulfur Content (lbs/million ft3):	0	Emission Control Method:	
Regularly Source Tested (yes/no):	No	Volatile Control Efficiency (%):	0
Boilers		Non-Volatile Control Efficiency (%):	0
Boiler, please choose type:	998	Additional Information:	
Engines		STACK (DUCTED EMISSIONS)	
Engine Type :	999	RELEASE (FUGITIVE EMISSIONS)	
Engine Control:	999	LOCATION	
Engine Fuel Mixture	999	Longitude (Decimal Degrees)	
Flares		Latitude (Decimal Degrees)	
Flare, please choose type/control:	998	Datum	
Turbines		Is this location confidential?:	
Turbine Type:	999	Capture Efficiency (%):	100
Turbine control:	998	Capture Efficiency (%):	0
Equipped With:			
Other Controls (please describe):			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	39		
	<u> </u>		
Non-Default	Emission Factors	Non-Defau	lit Speciations
Using only default values		Using only default values	

EIFID	351	Site Name	SD State University
Site Inforr	nation	PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2000-PTO-001803
Site Address:	5500 Campanile Dr	Permit Description:	PAINT SPRAY BOOTH, 14'W X 8'H X 33'D; EXHAUST FILTERS; 2-HP EXHAUST FAN LOCATION: PHY PLANT PAINT SHOP NO APP
DEVICE INFO	RMATION	MATERIALI	NFORMATION
Device:	1803	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P08
MATERIAL/PROCES	SINFORMATION	PHYSICAL SOUR	CE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	MISC PAINTS	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	VARIOUS	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	0	Control Device Description	BOOTH WITH EXHAUST FILTER
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	100
Maximum Hourly Usage (gals/hour):	0	Volatile Control Efficiency (%):	0
Density (lbs/gal):	9.95	Non-Volatile Control Efficiency (%):	90
VOC Content (lbs/gal):	1.62	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:	AIR GUN	Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	50	Additional Information:	
Fallout Percent (%):	50	Capture Efficiency (%):	0
Type of Operation:	WOOD PRODUCTS	STACK (DUCTED EMISSIONS)	
Type of Material:		RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	Yes	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	0	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	0	Is this location confidential?:	
Non-Default Emi	ission Factors	Non-Defau	It Speciations

Using only default values

Using only default values

EIF ID	351	Site Name	SD State University
Site Info	rmation	PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2000-PTO-900967
Site Address:	5500 Campanile Dr	Permit Description:	WOOD COATING: ONE (1) WALK-IN PAINT SPRAY BOOTH INSIDE BUILDING 421 (3'D X 4'W X 7'H), EQUIPPED WITH DRY EXHAUST FILTERS.
	ORMATION	MATERIAL II	NEORMATION
	900967	Material	
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P08
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	MISC PAINTS	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	VARIOUS	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	0	Control Device Description	BOOTH WITH EXHAUST FILTERS
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	100
Maximum Hourly Usage (gals/hour):	0	Volatile Control Efficiency (%):	0
Density (lbs/gal):	9.2	Non-Volatile Control Efficiency (%):	90
VOC Content (lbs/gal):	4.02	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:	AIR GUN	Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	65	Additional Information:	
Fallout Percent (%):	30	Capture Efficiency (%):	0
Type of Operation:	WOOD COATING	STACK (DUCTED EMISSIONS)	
Type of Material:		RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	No	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	0	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	0	Is this location confidential?:	
Non-Default Er	nission Factors	Non-Defau	It Speciations
Using only default values		Using only default values	

EIF ID	351	Site Name	SD State University
Site Info	rmation	PERMITIN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2000-PTO-900969
Site Address:	5500 Campanile Dr	Permit Description:	WOOD AND FABRIC COATING: ONE
			(1) WALK-IN PAINT SPRAY BOOTH,
			3'D X 4'W X 7', LOCATED IN
			DRAMATIC ARTS 107B, EQUIPPED
			AD JOINING ROOM.
DEVICE INF	ORMATION	MATERIALI	NFORMATION
Device:	900969	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P08
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	MISC PAINTS	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	VARIOUS	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	0.5	Control Device Description	BOOTH AND FILTERS
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	100
Maximum Hourly Usage (gals/hour):	1	Volatile Control Efficiency (%):	0
Density (lbs/gal):	11.5	Non-Volatile Control Efficiency (%):	90
VOC Content (lbs/gal):	0.84	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:	AIR GUN	Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	50	Additional Information:	
Fallout Percent (%):	50	Capture Efficiency (%):	0
Type of Operation:	WOOD PRODUCTS	STACK (DUCTED EMISSIONS)	
Type of Material:		RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	Yes	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	1	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	0	Is this location confidential?:	
Non-Default Fr	nission Factors	Non-Defau	It Speciations
Using only default values		Using only default values	

EIFID	351	Site Name	SD State University
Site Info	rmation	PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2001-PTO-973015
Site Address:	5500 Campanile Dr	Permit Description:	ADHESIVE MATERIALS APPLICATION
			APPLICATION AREA USING
			SPRAYING SYSTEM CORP. SPRAY
			EQUIPMENT TO APPLY PIONITE
			P-10-T AND WESTECH AEROSOL
			WT-HSC13 CONTACT ADHESIVES.
			976950/973015(EZI)
DEVICE INF	ORMATION	MATERIALI	NFORMATION
Device:	973015	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P09
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	CONTACT ADHESIVE	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	NORTH STAR	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	0	Control Device Description	
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	0
Maximum Hourly Usage (gals/hour):	0	Volatile Control Efficiency (%):	0
Density (lbs/gal):	8.1	Non-Volatile Control Efficiency (%):	0
VOC Content (lbs/gal):	0.67	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:	AIRLESS SPRAY	Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	50	Additional Information:	
Fallout Percent (%):	65	Capture Efficiency (%):	100
Type of Operation:	ADHESIVE	STACK (DUCTED EMISSIONS)	
Type of Material:	ADHESIVE	RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	No	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	0	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	0	Is this location confidential?:	
	· ·		
Non-Default En	nission Factors	Non-Defau	IIT Speciations
Using only default values		Using only default values	

EIFID	351	Site Name	SD State University
Site Info	rmation	PERMITIN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2001-PTO-973015
Site Address:	5500 Campanile Dr	Permit Description:	ADHESIVE MATERIALS APPLICATION
			<b>OPERATION: ONE (1) ADHESIVE</b>
			APPLICATION AREA USING
			SPRAYING SYSTEM CORP. SPRAY
			EQUIPMENT TO APPLY PIONITE
			P-10-T AND WESTECH AEROSOL
			WI-HSC13 CONTACT ADHESIVES.
			976950/973015(EZI)
DEVICE INF	ORMATION	MATERIAL	INFORMATION
Device:	973015	Material:	2
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P09
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOU	RCE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	LACQUER THINNER	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	CSD/STARTEX	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	4.5	Control Device Description	
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	0
Maximum Hourly Usage (gals/hour):	0.5	Volatile Control Efficiency (%):	0
Density (lbs/gal):	6.8	Non-Volatile Control Efficiency (%):	0
VOC Content (lbs/gal):	6.8	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:		Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	0	Additional Information:	
Fallout Percent (%):	0	Capture Efficiency (%):	100
Type of Operation:		STACK (DUCTED EMISSIONS)	
Type of Material:		RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	No	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	0	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	9	Is this location confidential?:	
Non-Default En	nission Factors	Non-Defa	ult Speciations
Using only default values		Using only default values	

EIFID	351	Site Name	SD State University
Site	Information	PFR	MITINFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2003-PTO-975398
Site Address:	5500 Campanile Dr	Permit Description:	One (1) 60-T7300S GSC Solar Turbine
			Inc. Taurus Gas Turbine Engine, unit A.
			S/N 1128 T. S/N OHF15-T9157. natural
			gas fired, 59.48 million btu/hour, based
			upon lower heating value (lhv) at 46° F
			engine inlet temperature at 95% R.H,
			5.233 MW net output power, with dry
			low oxides of nitrogen (NOx) (SoLoNOx)
			technology including an augmented
			backside cooled/ thermal barrier
			coating ABC/TBC combustor liner. One
			(1) John Zink Company low NOx duct
			burner (duct burner A), s/n
			2001-68-1000, natural gas fired, 20
			million btu/hour based upon higher
			heating value, and one (1) heat recovery
			steam generator. One (1) 4.169 MW
			steam turbine-generator set, S/N
			T-5613 is driven by unit A and unit B.
			The combined net power output of this
			cogeneration facility, consisting of two
			(2) gas turbine engines, each equipped
			with a duct burner and waste heat
			recovery system to supply steam and
			drive the steam turbine is 14.47 MW.
			975398 EAD 12/11/03

DEVICE INFORMATION			MATERIAL INFORMATION
Device:	539801	Material:	
Device Description:	REPORT TOTAL FUEL USAGE FOR GAS TURBINE (UNIT A) WHEN OPERATED WITHOUT THE DUCT BURNER. CO AND NOX EMISSION FACTORS FOR NATURAL GAS COMBUSTION BASED ON LAST THREE SOURCE TESTS.	EQ Name:	

MATERIAL/PROCESS INFORMATION		
Fuel Type :	Natural Gas	
Other Fuel Type :	NATURAL GAS	
Design Capacity	59.5	
Design Capacity Units (mmBTU/hr, BHP, etc)	mmBTU/hr	
Annual Fuel Usage (million ft3/year):	300	
Maximum Fuel Usage (ft3/min):	1,000	
Fuel Sulfur Content (lbs/million ft3):	0	
Regularly Source Tested (yes/no):	Yes	
Boilers		
Boiler, please choose type:	NA	
Engines		
Engine Type :	NA	
Engine Control:	NA	
Engine Fuel Mixture	NA	
Flares		

PHYSICAL SOURCE INFORMATION		
Height Above Ground (ft):	0	
Diameter (ft):	0	
Exhaust Gas Temperature (F):	0	
Exhaust Gas Flowrate (CFM):	0	
Control Device Description	DUCT BURNER NOT OPERATED	
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Emission Control Method:		
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Additional Information:		
STACK (DUCTED EMISSIONS)		
RELEASE (FUGITIVE EMISSIONS)		
LOCATION		
Longitude (Decimal Degrees)		
Latitude (Decimal Degrees)		

A01-T11

MATERIAL/PROCESS INFORMATION	
Flare, please choose type/control:	NA
Turbines	
Turbine Type:	Natural Gas Fired
Turbine control:	With Lean Premix
Equipped With:	
Other Controls (please describe):	
Device Operating Schedule:	
- Daily Operation (hours/day):	24
- Weekly Operation (days/week):	7
- Annual Operation (days/year):	365

Datum		
Is this location confidential?:	No	
Capture Efficiency (%):	100	
Capture Efficiency (%):	0	

Non-Default Emission Factors	
Nitrogen Oxides (NOx)	50
Carbon Monoxide (CO)	2.31

Non-Default Speciations		
Using only default values		

EIF ID	351	Site Name	SD State University
Site	e Information	PER	MITINFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2003-PTO-975398
Site Address:	5500 Campanile Dr	Permit Description:	One (1) 60-T7300S GSC Solar Turbine
			Inc. Taurus Gas Turbine Engine, unit A,
			S/N 1128 T, S/N OHF15-T9157, natural
			gas fired, 59.48 million btu/hour, based
			upon lower heating value (lhv) at 46° F
			engine inlet temperature at 95% R.H,
			5.233 MW net output power, with dry
			low oxides of nitrogen (NOx) (SoLoNOx)
			technology including an augmented
			backside cooled/ thermal barrier
			coating ABC/TBC combustor liner. One
			(1) John Zink Company low NOx duct
			burner (duct burner A), s/n
			2001-68-1000, natural gas fired, 20
			million btu/hour based upon higher
			heating value, and one (1) heat recovery
			steam generator. One (1) 4.169 MW
			steam turbine-generator set, S/N
			T-5613 is driven by unit A and unit B.
			The combined net power output of this
			cogeneration facility, consisting of two
			(2) gas turbine engines, each equipped
			with a duct burner and waste heat
			recovery system to supply steam and
			drive the steam turbine is 14.47 MW.
			975398 EAD 12/11/03

DEVICE INFORMATION		MATERIAL IN	FORMATION
Device:	539802	Material:	1
Device Description:	REPORT TOTAL COMBINED FUEL USAGE FOR GAS TURBINE (UNIT A) AND DUCT BURNER (UNIT A) WHEN BOTH ARE OPERATED SIMULTANEOUSLY.	EQ Name:	A01-T11
	CO AND NOX EMISSION FACTORS FOR NATURAL GAS COMBUSTION BASED ON LAST THREE SOURCE TESTS.		

MATERIAL/PROCESS INFORMATION		
Fuel Type :	Natural Gas	
Other Fuel Type :	NATURAL GAS	
Design Capacity	79.5	
Design Capacity Units (mmBTU/hr, BHP, etc)	mmBTU/hr	
Annual Fuel Usage (million ft3/year):	17.9	
Maximum Fuel Usage (ft3/min):	1,400	
Fuel Sulfur Content (lbs/million ft3):	0	
Regularly Source Tested (yes/no):	Yes	
Boilers		
Boiler, please choose type:	NA	
Engines		
Engine Type :	NA	
Engine Control:	NA	
Engine Fuel Mixture	NA	

PHYSICAL SOURCE INFORMATION		
Height Above Ground (ft):	0	
Diameter (ft):	0	
Exhaust Gas Temperature (F):	0	
Exhaust Gas Flowrate (CFM):	0	
Control Device Description	DUCT BURNER OPERATING	
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Emission Control Method:		
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Additional Information:		
STACK (DUCTED EMISSIONS)		
RELEASE (FUGITIVE EMISSIONS)		
LOCATION		
Longitude (Decimal Degrees)		

MATERIAL/PROCESS INFORMATION		
Flares		
Flare, please choose type/control:	NA	
Turbines		
Turbine Type:	Natural Gas Fired	
Turbine control:	With Lean Premix	
Equipped With:		
Other Controls (please describe):		
Device Operating Schedule:		
- Daily Operation (hours/day):	24	
- Weekly Operation (days/week):	7	
- Annual Operation (days/year):	365	

PHYSICAL SOURCE INFORMATION		
Latitude (Decimal Degrees)		
Datum	1	
Is this location confidential?:	No	
Capture Efficiency (%):	100	
Capture Efficiency (%):	0	

Non-Default Emission Factors		
Nitrogen Oxides (NOx)	60.6	
Carbon Monoxide (CO)	11.4	

Non-Default Speciations			
Using only default values			

EIF ID	351	Site Name	SD State University
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2003-PTO-975399
Site Address:	5500 Campanile Dr	Permit Description:	One (1) 60-T7300S GSC Solar Turbine
			Inc. Taurus Gas Turbine Engine, unit B,
			S/N 1129 T, S/N OHF15-T0573, natural
			gas fired, 59.48 million btu/hour, based
			upon lower heating value (lhv) at 46° F
			engine inlet temperature at 95% R.H,
			5.233 MW net output power, with dry
		low oxides of nitrogen (NOx) (SoLoNOx)	
			technology including an augmented
			backside cooled/ thermal barrier
			coating ABC/TBC combustor liner. One
			(1) John Zink Company low NOx duct
			burner (duct burner B), s/n
			2001-70-1000, natural gas fired, 20
			million btu/hour based upon higher
			heating value, and one (1) heat recovery
			steam generator. One (1) 4.169 MW
			steam turbine-generator set, S/N
			T-5613 is driven by unit A and unit B.
			The combined net power output of this
			cogeneration facility, consisting of two
			(2) gas turbine engines, each equipped
			with a duct burner and waste heat
			recovery system to supply steam and
			drive the steam turbine is 14.47 MW.
			975399 EAD 12/11/03

DEVICE INFORMATION		MATERIAL INFORMATION	
Device:	539901	Material:	
Device Description:	REPORT TOTAL FUEL USAGE FOR GAS TURBINE (UNIT B) WHEN OPERATED WITHOUT THE DUCT BURNER. CO AND NOX EMISSION FACTORS FOR NATURAL GAS COMBUSTION BASED ON LAST THREE SOURCE TESTS.	EQ Name:	A01-T1:

MATERIAL/PROCESS INFORMATION		
Fuel Type :	Natural Gas	
Other Fuel Type :	NATURAL GAS	
Design Capacity	59.5	
Design Capacity Units (mmBTU/hr, BHP, etc)	mmBTU/hr	
Annual Fuel Usage (million ft3/year):	399	
Maximum Fuel Usage (ft3/min):	958	
Fuel Sulfur Content (lbs/million ft3):	0	
Regularly Source Tested (yes/no):	Yes	
Boilers		
Boiler, please choose type:	NA	
Engines		
Engine Type :	NA	
Engine Control:	NA	
Engine Fuel Mixture	NA	
Flares		

PHYSICAL SOURCE INFORMATION		
Height Above Ground (ft):	0	
Diameter (ft):	0	
Exhaust Gas Temperature (F):	0	
Exhaust Gas Flowrate (CFM):	0	
Control Device Description	DUCT BURNER NOT OPERATED	
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Emission Control Method:		
Volatile Control Efficiency (%):	0	
Non-Volatile Control Efficiency (%):	0	
Additional Information:		
STACK (DUCTED EMISSIONS)		
RELEASE (FUGITIVE EMISSIONS)		
LOCATION		
Longitude (Decimal Degrees)		
Latitude (Decimal Degrees)		

MATERIAL/PROCESS INFORMATION		
Flare, please choose type/control:	NA	
Turbines		
Turbine Type:	Natural Gas Fired	
Turbine control:	With Lean Premix	
Equipped With:		
Other Controls (please describe):		
Device Operating Schedule:		
- Daily Operation (hours/day):	24	
- Weekly Operation (days/week):	7	
- Annual Operation (days/year):	365	

PHYSICAL SOURCE INFORMATION		
1		
No		
100		
0		

Non-Default Emission Factors		
Nitrogen Oxides (NOx)	37.3	
Carbon Monoxide (CO)	2.31	

Non-Default Speciations			
Using only default values			

EIF ID	351	Site Name	SD State University
Sit	e Information	PFR	
SRID	APCD1976-SITE-00208	Permit Number	APCD2003-PTO-975399
Site Address:	5500 Campanile Dr	Permit Description:	Ope (1) 60-T7300S GSC Solar Turbine
Site / Idui ess.		r er nit Deseription.	Inc. Taurus Gas Turbine Engine unit B
			S/N 1129 T. S/N OHE15-T0573, natural
			gas fired 59.48 million btu/bour based
			upon lower heating value (lhv) at 46° F
			engine inlet temperature at 95% R.H.
			5.233 MW net output power, with dry
			low oxides of nitrogen (NOx) (SoLoNOx)
			technology including an augmented
			backside cooled/ thermal barrier
			coating ABC/TBC combustor liner. One
			(1) John Zink Company low NOx duct
			burner (duct burner B), s/n
			2001-70-1000, natural gas fired, 20
			million btu/hour based upon higher
			heating value, and one (1) heat recovery
			steam generator. One (1) 4.169 MW
			steam turbine-generator set, S/N
			T-5613 is driven by unit A and unit B.
			The combined net power output of this
			cogeneration facility, consisting of two
			(2) gas turbine engines, each equipped
			with a duct burner and waste heat
			recovery system to supply steam and
			drive the steam turbine is 14.47 MW.
			975399 EAD 12/11/03

DEVICE INFORMATION		MATERIAL IN	IFORMATION
Device:	539902	Material:	1
Device Description:	REPORT TOTAL COMBINED FUEL USAGE FOR GAS TURBINE (UNIT B) AND DUCT BURNER (UNIT B) WHEN BOTH ARE OPERATED SIMULTANEOUSLY.	EQ Name:	A01-T11
	CO AND NOX EMISSION FACTORS FOR NATURAL GAS COMBUSTION BASED ON LAST THREE SOURCE TESTS.		

MATERIAL/PROCESS INFORMATION	
Fuel Type :	Natural Gas
Other Fuel Type :	NATURAL GAS
Design Capacity	79.5
Design Capacity Units (mmBTU/hr, BHP, etc)	mmBTU/hr
Annual Fuel Usage (million ft3/year):	9.81
Maximum Fuel Usage (ft3/min):	1,400
Fuel Sulfur Content (lbs/million ft3):	0
Regularly Source Tested (yes/no):	Yes
Boilers	
Boiler, please choose type:	NA
Engines	
Engine Type :	NA
Engine Control:	NA
Engine Fuel Mixture	NA

PHYSICAL SOURCE INFORMATION	
Height Above Ground (ft):	0
Diameter (ft):	0
Exhaust Gas Temperature (F):	0
Exhaust Gas Flowrate (CFM):	0
Control Device Description	DUCT BURNER OPERATED
Volatile Control Efficiency (%):	0
Non-Volatile Control Efficiency (%):	0
Emission Control Method:	
Volatile Control Efficiency (%):	0
Non-Volatile Control Efficiency (%):	0
Additional Information:	
STACK (DUCTED EMISSIONS)	
RELEASE (FUGITIVE EMISSIONS)	
LOCATION	
Longitude (Decimal Degrees)	

MATERIAL/PROCESS INFORMATION	
Flares	
Flare, please choose type/control:	NA
Turbines	
Turbine Type:	Natural Gas Fired
Turbine control:	With Lean Premix
Equipped With:	
Other Controls (please describe):	
Device Operating Schedule:	
- Daily Operation (hours/day):	24
- Weekly Operation (days/week):	7
- Annual Operation (days/year):	365

PHYSICAL SOURCE INFORMATION		
Latitude (Decimal Degrees)		
Datum	1	
Is this location confidential?:	No	
Capture Efficiency (%):	100	
Capture Efficiency (%):	0	

Non-Default Emission Factors	
Nitrogen Oxides (NOx)	48.3
Carbon Monoxide (CO)	9.24

Non-Default Speciations	
Using only default values	

EIF ID	351	Site Name	SD State University
Site Info	ormation	PERMITIN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2004-PTO-000841
Site Address:	5500 Campanile Dr	Permit Description:	BOILER NO.3:12.6 MM BTU/HR INPUT:INTERNATIONAL BOILER WORKS/ UNIVERSAL ENERGY CORPORATION MODEL BF-350C-W12X, EQUIPPED WITH A LOW NOX BURNER, FGR, AND EXCESS OXYGEN CONTINUOUS MONITOR, NATURAL GAS-FIRED, AND ONLY USING DIESEL NO. 2 FUEL FOR BACKUP AND LIMITED USE. Gas flow meter: Manufacturer: Rosemount Inc., Make: 3051 SFC Compact Orifice Flowmeter, Model: 3051 SFC1 SC040N040T32JAIA3Q4E5M5, S/N 20SHFE0014015 40040 AS 0384 ID REPL 0295 DAS 972798 0999 EAD (08AUG2002 ADD CONDITION#
			2800) 978333 EAD 060404
DEVICE INF	ORMATION	MATERIALI	NFORMATION
Device:	841	Material:	1
Device Description:	FOR NATURAL GAS COMBUSTION FOR NATURAL GAS COMBUSTION BASED ON THE LAST THREE SOURCE TEST RESULTS.	EQ Name:	A01-B17
MATERIAL/PROCI	ESS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Fuel Type :	999	Height Above Ground (ft):	70
Other Fuel Type :	NATURAL GAS	Diameter (ft):	4
Design Capacity		Exhaust Gas Temperature (F):	300
Design Capacity Units (mmBTU/hr,		Exhaust Gas Flowrate (CFM):	4,100
BHP, etc)		Control Device Description	STACK
Annual Fuel Usage (million ft3/year):	3.04	Volatile Control Efficiency (%):	0
Maximum Fuel Usage (ft3/min):	182	Non-Volatile Control Efficiency (%):	0
Fuel Sulfur Content (Ibs/million ft3):	0	Emission Control Method:	
Regularly Source Tested (yes/no):	Yes	Volatile Control Efficiency (%):	0
Boilers		Non-Volatile Control Efficiency (%):	0
Boiler, please choose type:	998	Additional Information:	
Engines		STACK (DUCTED EMISSIONS)	
Engine Type :	999	RELEASE (FUGITIVE EMISSIONS)	
Engine Control:	999	LOCATION	
Engine Fuel Mixture	999	Longitude (Decimal Degrees)	
Flares		Latitude (Decimal Degrees)	
Flare, please choose type/control:	998	Datum	
Turbines		Is this location confidential?:	
Turbine Type:	999	Capture Efficiency (%):	100
Turbine control:	998	Capture Efficiency (%):	0
Equipped With:			
Other Controls (please describe):			
Device Operating Schedule:			
- Daily Operation (hours/day):	24		
- Weekly Operation (days/week):	7		
<ul> <li>Annual Operation (days/year):</li> </ul>	365		

Non-Default Emission Factors	
Nitrogen Oxides (NOx)	29.5
Carbon Monoxide (CO)	2.97

	Non-Default Speciations	
5	Using only default values	
7		

EIF ID	351	Site Name	SD State University
Site In	formation	PFRMIT	INFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2004-PTO-000841
Site Address:	5500 Campanile Dr	Permit Description:	BOILER NO.3:12.6 MM BTU/HR INPUT:INTERNATIONAL BOILER WORKS/ UNIVERSAL ENERGY CORPORATION MODEL BF-350C-W12X, EQUIPPED WITH A LOW NOX BURNER, FGR, AND EXCESS OXYGEN CONTINUOUS MONITOR, NATURAL GAS-FIRED, AND ONLY USING DIESEL NO. 2 FUEL FOR BACKUP AND LIMITED USE. Gas flow meter: Manufacturer: Rosemount Inc., Make: 3051 SFC Compact Orifice Flowmeter, Model: 3051 SFC1 SC040N040T32JAIA3Q4E5M5, S/N 20SHFE0014015 40040 AS 0384 ID REPL 0295 DAS 972798 0999 EAD
	IFORMATION	MATERIA	(08A0G2002 ADD CONDITION# 2800) 978333 EAD 060404
Device:	841	Material:	2
Device Description:	CO AND NOX EMISSION FACTORS FOR NATURAL GAS COMBUSTION BASED ON THE LAST THREE SOURCE TEST RESULTS.	EQ Name:	A02-B04
MATERIAL/PROG	CESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	70
Design Capacity		Diameter (ft):	4
Design Capacity Units (mmBTU/hr, BHP etc)		Exhaust Gas Temperature (F):	300
Annual Fuel Usage (gals/year):	0	Control Device Description	4,100
Maximum Fuel Usage (gals/hour):	0	Conture Efficiency (%):	51ACK
Fuel Sulfur Content (weight %):	+	Emission Control Mothod	100
Regularly Source Tested (ves/no):	Νο	Additional Information:	
Equipped With:		Canture Efficiency (%)	
Other Controls (please describe):			
Device Operating Schedule:			
- Daily Operation (hours/dav):	0		
- Weekly Operation (days/week):	0	Longitude (Decimal Degrees)	
- Annual Operation (days/vear):	0	Latitude (Decimal Degrees)	
	-	Datum	
		Is this location confidential?:	
			·
Non-Default	Emission Factors	Non-Det	fault Speciations

Non-Default Emission Factors	Non-Default Speciations	
Using only default values	Using only default values	

EIFID	351	Site Name	SD State University
Site Information		PERMIT IN	FORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2004-PTO-920191
Site Address:	5500 Campanile Dr	Permit Description:	BOILER NO.4:23.8 MM BTU/HR
			INPUT; CLEAVER-BROOKS MODEL
			D-34, UNIT W-3730, EQUIPPED WITH
			EXCESS OXYGEN CONTINUOUS
			MONITOR, NATURAL GAS-FIRED,
			AND ONLY USING DIESEL NO.2 FUEL
			FOR BACKUP AND LIMITED USE. Gas
			flow meter: Manufacturer: Rosemount
			Inc., Make: 3051 SFC Compact Orifice
			Flowmeter, Model: 3051 SFC1
			20SHFE0014014JCM 0395 920191:
			EAD 972799 9/99 (08AUG2002 ADD
			CONDITION #2800) 978334 EAD
			060404
DEVICE IN	FORMATION	MATERIALI	NFORMATION
Device:	920191	Material:	2
Device Description:	CO AND NOX EMISSION FACTORS	EQ Name:	A01-B17
	FOR NATURAL GAS COMBUSTION		
	BASED ON THE LAST THREE SOURCE		
	TEST RESULTS.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOUF	RCE INFORMATION
Fuel Type :	999	Height Above Ground (ft):	70
Other Fuel Type :	NATURAL GAS	Diameter (ft):	4
Design Capacity		Exhaust Gas Temperature (F):	589
Design Capacity Units (mmBTU/hr,		Exhaust Gas Flowrate (CFM):	2,200
BHP, etc)		Control Device Description	
Annual Fuel Usage (million ft3/year):	9.23	Volatile Control Efficiency (%):	0
Maximum Fuel Usage (ft3/min):	364	Non-Volatile Control Efficiency (%):	0
Fuel Sulfur Content (lbs/million ft3):	0	Emission Control Method:	
Regularly Source Tested (yes/no):	Yes	Volatile Control Efficiency (%):	0
Boilers		Non-Volatile Control Efficiency (%):	0
Boiler, please choose type:	998	Additional Information:	
Engines		STACK (DUCTED EMISSIONS)	
Engine Type :	999	RELEASE (FUGITIVE EMISSIONS)	
Engine Control:	999	LOCATION	
Engine Fuel Mixture	999	Longitude (Decimal Degrees)	
Flares		Latitude (Decimal Degrees)	
Flare, please choose type/control:	998	Datum	
Turbines		Is this location confidential?:	
Turbine Type:	999	Capture Efficiency (%):	100
Turbine control:	998	Capture Efficiency (%):	0
Equipped With:			
Other Controls (please describe):			
Device Operating Schedule:			
- Daily Operation (hours/day):	24		
- Weekly Operation (days/week):	7		
- Annual Operation (days/year):	365		
Non Default	mission Eastors	Non Defe	ult Speciations
		Non-Detal	
INU OSCII ONICES (INOX)	29.0	Using Univ derduit values	

Non-Default Emission Factors		Non-Default Speciations	
Carbon Monoxide (CO)	124	Using only default values	

EIF ID	351	Site Name	SD State University
Site Information			
SRID	APCD1976-SITE-00208	Permit Number	APCD2004-PTO-920191
Site Address:	5500 Campanile Dr	Permit Description:	BOILER NO.4:23.8 MM BTU/HR
			INPUT; CLEAVER-BROOKS MODEL
			D-34, UNIT W-3730, EQUIPPED WITH
			A LOW NOX BURNER, FGR, AND
			EXCESS OXYGEN CONTINUOUS
			MONITOR, NATURAL GAS-FIRED,
			AND ONLY USING DIESEL NO.2 FUEL
			FOR BACKUP AND LIMITED USE. Gas
			flow meter: Manufacturer: Rosemount
			Inc., Make: 3051 SFC Compact Orifice
			Flowmeter, Model: 3051 SFC1
			SC040N040T32JAIA3Q4E5M5, S/N
			20SHFE0014014JCM 0395 920191;
			EAD 9/2/99 9/99 (08AUG2002 ADD
			CONDITION #2800) 978334 EAD
			000-0-
DEVICE IN	FORMATION	MATERIAL	INFORMATION
Device:	920191	Material:	1
Device Description:	CO AND NOX EMISSION FACTORS	EQ Name:	A02-B04
	FOR NATURAL GAS COMBUSTION		
	BASED ON THE LAST THREE SOURCE		
	TEST RESULTS.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOU	RCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	70
Design Capacity		Diameter (ft):	4
Design Capacity Units (mmBTU/hr,		Exhaust Gas Temperature (F):	589
BHP, etc)		Exhaust Gas Flowrate (CFM):	2,200
Annual Fuel Usage (gals/year):	0	Control Device Description	
Maximum Fuel Usage (gals/hour):	0	Capture Efficiency (%):	100
Fuel Sulfur Content (weight %):		Emission Control Method:	
Regularly Source Tested (yes/no):	No	Additional Information:	
Equipped With:		Capture Efficiency (%):	0
Other Controls (please describe):		STACK (DUCTED EMISSIONS)	
Device Operating Schedule:		RELEASE (FUGITIVE EMISSIONS)	
- Daily Operation (hours/day):	0	LOCATION	
- Weekly Operation (days/week):	0	Longitude (Decimal Degrees)	
- Annual Operation (days/year):	0	Latitude (Decimal Degrees)	
		Datum	
		Is this location confidential?:	
Non-Default	-mission Factors	Non-Defa	ult Speciations
Using only default values		Using only default values	

EIEID	351	Site Name	SD State University
	551	Site Name	SD State Oniversity
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-951138
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR, 574 HP CATERPILLAR MODEL 3406B DIESEL ENGINE SERIAL NUMBER: 4PM00392, TURBOCHARGED, AFTERCOOLED. LOCATED AT COX ARENA. 951138 GDS 2/98 17 CCR 93115 SJE 10/05
DEVICEIN	FORMATION	MATERIALI	NFORMATION
Device:	951138	Material:	1
Device Description:	EMISSION FACTORS USED ARE NOX 6.29, CO 15.28, ROG 0.024, PM 4.43 G/BHP-HR PER APP ATCM SUBMITTAL. DIESEL PM EMISSION FACTOR CHANGED TO 1.0 G/BHP-HR PER AP-42 (BYRNES/PENEDA 2/2016).	EQ Name:	A05-E15
		Height Above Cround (ft):	
Fuel Type.		Diameter (ft):	12
Engine Mahulacturer.		Expanse Cas Tomporature (E):	1.035
Engine Make.	1 994	Exhaust Gas Femperature (F).	1,035
Engine Vear	1,774	Control Device Description	3,333
Engine Family Number:		Control Efficiency (%):	0
Engine Tier (1-4):	UNKNOWN		0
Engine Rating (hbn):	574	Other Control Type:	
Non-Emergency Operations	574		
- Appual Fuel Usage (gals/year):	249	Longitude (Decimal Degrees)	
- May Hourly Fuel Usage (gals/ year).	295	Latitude (Decimal Degrees)	
Renewable Diesel Used (ves/no):	27.3	Datum	
- Typical Load (%):	100	Is this location confidential?	
- Operating Hours (bours/year):	845		
Emergency Operations	0.10		
Annual Fuel Usage (gallons/year)	103		
Maximum Hourly Fuel Usage	29.5		
(gallons/hour)	27.5		
Typical Load (%)			
Operating Hours (hours/year)	3.5		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	16		
	· · · · · ·		
Non-Default l	Emission Factors	Non-Defau	It Speciations
Carbon Monoxide (CO)	271	Using only default values	
Nitrogen Oxides (NOx)	659		
Particulate Matter (PM10)	43.2		
Iotal Particulates (TSP)	43.2		
Volatile Organic Compounds (VOC)	1.04		
Diesel Particulate	43.2		

EIF ID	351	Site Name	SD State University
			,
Site Inf	ormation	PERMIT	INFORMATION
SRID Site Address:	APCD1976-SITE-00208 5500 Campanile Dr	Permit Number Permit Description:	APCD2005-PTO-961940 EMERGENCY ENGINE GENERATOR, 896 HP CATERPILLAR MODEL 3412 DITA DIESEL ENGINE, S/N: 81Z20989, TURBOCHARGED, AFTERCOOLED. LOCATED AT NORTH LIFE SCIENCE. 961940 GDS 2/98 17 CCR 93 115 SJE 10/05
	FORMATION	ΜΛΤΕΡΙΛ	
Device:	961940	Material:	
Device Description:	MISSION FACTORS USED ARE NOX 7.51, CO 0.28, ROG 0.066, PM 0.54 G/BHP-HR PER APP ATCM SUBMITTAL. DIESEL PM FACTOR CHANGED TO 0.2 G/BHP-HR PER MFG INFO(BYRNES/PENEDA 2/2016).	EQ Name:	A05-E10
MATERIAL/PROC	FSS INFORMATION	PHYSICAL SO	
Fuel Type:	DIESEL	Height Above Ground (ft):	
Engine Manufacturer:	CATERPILLAR	Diameter (ft):	0.67
Engine Make:	3412 DITA	Exhaust Gas Temperature (F):	906
Engine Model:	1.997	Exhaust Gas Flowrate (CFM):	4.986
Engine Year	,	Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	896	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	347	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	46.3	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	7.5		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	12		
Non-Default F	Emission Factors	Non-De	fault Speciations
Carbon Monoxide (CO)	12.1	Using only default values	
Nitrogen Oxides (NOx)	324		
Particulate Matter (PM10)	8.63		
Total Particulates (TSP)	8.63		
Volatile Organic Compounds (VOC)	2.85		
Diesel Particulate	8.63		

EIF ID	351	Site Name	SD State University
Site Info	ormation	PERMITIN	IFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-970555
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR, 830 HP DETROIT DIESEL MODEL 12V-92TA DIESEL ENGINE, S/N: 12VF012785. TURBOCHARGED, AFTERCOOLED. LOCATED AT SOUTH LIFE SCIENCE. 970555 GDS 2/98 17 CCR 93 115 SJE 10/05
		ΜΑΤΕΡΙΑΙΙ	NEODMATION
Device:	970555	Material:	
Device Description:	EMISSION FACTORS USED ARE NOX 13.05, CO 3.57, ROG 0.33, PM 1 G/BHP-HR PER APP ATCM SUBMITTAL. DIESEL PM FACTOR CHANGED TO 0.185 G/BHP-HR PER AP-42 (BYRNES/PENEDA 2/2016).	EQ Name:	A05-E10
MATERIAL/PROCE	ESS INFORMATION	PHYSICAL SOUR	RCFINFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	12
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0.67
Engine Make:	12V-92TA	Exhaust Gas Temperature (F):	810
Engine Model:	1,997	Exhaust Gas Flowrate (CFM):	4,750
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	830	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	298	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	41	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	7.27		•
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non-Default E	mission Factors	Non-Defau	Ilt Speciations
Carbon Monoxide (CO)	154	Using only default values	
Nitrogen Oxides (NOx)	563		•
Particulate Matter (PM10)	7.98		
Total Particulates (TSP)	7.98		
Volatile Organic Compounds (VOC)	14.2		
Diesel Particulate	7.98		

	054		
EIF ID	351	Site Name	SD State University
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971088
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR.
			233 HP CATERPILLAR MODEL 3208
			DIESEL ENGINE S/N: 3OA00786,
			TURBOCHARGED. ENGINE LOCATED
			AT A-LOT. 971088 GDS 3/98 17 CCR
			93115 SJE 10/05
DEVICE INF	ORMATION	MATERIALIN	IFORMATION
Device:	971088	Material:	1
Device Description:	FORMERLY OPERATED AS P/O	FO Name:	 A05-F15
	900971 (P/O 900971 RETIRED)		/ 11
	EMISSION FACTOR USED IS FROM		
	DIESEL PM DEFAULT AP-42 DIESEL		
	EMISSION FACTOR		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOURC	
Fuel Type:	DIESEL	Height Above Ground (ft):	30
Engine Manufacturer:	CATERPILLAR	Diameter (ft):	0.5
Engine Make:	3,208	Exhaust Gas Temperature (F):	1,000
Engine Model:	1,991	Exhaust Gas Flowrate (CFM):	1,300
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	233	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	105	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	9.7	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	10.8		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage			
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non-Dofault E	mission Factors	Non-Dofault	t Spaciations

Non-Default Emission Factors			
Using only default values			

Non-Default Speciations	
Using only default values	

	251	Sito Namo	SD State University
			SD State Oniversity
Site Inf	ormation	PERMIT	NFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971090
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR, 449 HP CATERPILLAR MODEL 3406BDI DIESEL ENGINE S/N 4RG01208, TURBOCHARGED. LOCATED AT STUDENT SERVICES EAST. 971090 GDS 3/98 17 CCR 93 115 SJE 10/05
DEVICE IN	FORMATION	MATERIAI	INFORMATION
Device:	971090	Material <sup>.</sup>	
Device Description:	EMISSION FACTORS LISED ARE NOX	FO Name:	ـــــــــــــــــــــــــــــــــــــ
	8.7, CO 0.808, ROG 0.303, PM 1 G/BHP-HR PER APP ATCM SUBMITTAL. DIESEL PM FACTOR CHANGED TO 0.31 G/BHP-HR PER MFG INFO (BYRNES/PENEDA 2/2016). REGISTERED ENGINE, FORMERLY P/O 910194		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOL	JRCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	12
Engine Manufacturer:	CATERPILLAR	Diameter (ft):	0.5
Engine Make:	3406BDI	Exhaust Gas Temperature (F):	1,000
Engine Model:	1,991	Exhaust Gas Flowrate (CFM):	2,426
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	449	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	71.8	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	8.65	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	8.3		•
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	12		
Non-Default I	mission Factors	Non-Def	ault Speciations
Carbon Monoxide (CO)	34.9	Using only default values	
Nitrogen Oxides (NOx)	375		
Particulate Matter (PM10)	134		

13.4

13.1

Total Particulates (TSP)

Volatile Organic Compounds (VOC)

Non-Default Emission Factors		Non-Default Speciations	
Diesel Particulate	13.4	Using only default values	

EIF ID	351	Site Name	SD State University
Site Inf	formation	PERMIT	INFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971091
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR, 423 HP DETROIT DIESEL MODEL 8063-7405 DIESEL ENGINE, TURBOCHARGED. S/N: 06VF192154. LOCATED AT CHAPULTEPEC RESIDENCE HALL. 971091 GDS 3/98 17 CCR 93 115 SJE 10/05
DEVICE IN	FORMATION	MATERIA	LINFORMATION
Device:	971091	Material:	1
Device Description:	EMISSION FACTORS USED ARE NOX	EO Name:	A05-E15
	10.83, CO 2.84, ROG 0.09, PM 1 G/BHP-HR PER APP ATCM SUBMITTAL. REGISTERED ENGINE, FORMERLY P/O 911343		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	8
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0.5
Engine Make:	6V-92TA	Exhaust Gas Temperature (F):	800
Engine Model:	1,991	Exhaust Gas Flowrate (CFM):	2,470
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	423	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	194	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	19.8	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	9.8		
Emergency Operations			
Annual Fuel Usage (gallons/year)	95.5		
Maximum Hourly Fuel Usage	19.8		
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)	4.83		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	15		
Non-Default	Emission Factors	Non-Def	fault Speciations
Carbon Monoxide (CO)	123	Using only default values	
Nitrogen Oxides (NOx)	467	<u> </u>	<u>_</u>
Particulate Matter (PM10)	43.2		
Total Particulates (TSP)	43.2		

3.88

43.2

Volatile Organic Compounds (VOC)

EIF ID	351	Site Name	SD State University
	Site Information	PER	MITINFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971093
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR,
			587 HP CATERPILLAR MODEL 3406B
			DIESEL ENGINE S/N 4PM00347,
			TURBOCHARGED, AFTERCOOLED.
			LOCATED AT EDUCATION AND
			<b>BUSINESS ADMIN BUILDING. 971093</b>
			GDS 2/98 17 CCR 93 115 SJE 10/05
-			
DEVICE INFORMATION		MATERIAL INFORMATION	
Device:	971093	Material:	1
Device Description:	EMISSION FACTORS USED ARE NOX	EQ Name:	A05-E15
	6.15, CO 14.9, ROG 0.023, PM 4.33		
	G/BHP-HR PER APP ATCM		
	SUBMITTAL.		
	REGISTERED ENGINE. FORMERLY P/O		
	950169		
	REGISTERED ENGINE, FORMERLY P/O		
	910193		
	DIESEL PM FACTOR CHANGED TO 1.0		
	G/BHP-HR PER AP-42		

MATERIAL/PROCESS INFORMATION DIESEL Fuel Type: Engine Manufacturer: CATERPILLAR Engine Make: 3406B Engine Model: 1,996 Engine Year UNKNOWN Engine Family Number: Engine Tier (1-4): Engine Rating (bhp): 587 Non-Emergency Operations 252 Annual Fuel Usage (gals/year): Max Hourly Fuel Usage (gals/hour): 29 Renewable Diesel Used (yes/no): no Typical Load (%): 100 Operating Hours (hours/year): 8.72 **Emergency Operations** Annual Fuel Usage (gallons/year) Maximum Hourly Fuel Usage (gallons/hour) Typical Load (%) Operating Hours (hours/year) Device Operating Schedule: Daily Operation (hours/day): 0 0 Weekly Operation (days/week): 13 Annual Operation (days/year):

(BYRNES/PENEDA 2/2016).

PHYSICAL SOURCE INFORMATION		
Height Above Ground (ft):	75	
Diameter (ft):	0.42	
Exhaust Gas Temperature (F):	1,036	
Exhaust Gas Flowrate (CFM):	3,323	
Control Device Description		
Control Efficiency (%):	0	
STACK (DUCTED EMISSIONS)		
Other Control Type:		
LOCATION		
Longitude (Decimal Degrees)		
Latitude (Decimal Degrees)		
Datum		
Is this location confidential?:		

	Non-Default Speciations		
643	Using only default values		
265			
12.2			

Non-Default Emission Factors			
Carbon Monoxide (CO)	643		
Nitrogen Oxides (NOx)	265		
Particulate Matter (PM10)	43.2		

Non-Default Emission Factors		
Total Particulates (TSP)	43.2	
Volatile Organic Compounds (VOC)	0.99	
Diesel Particulate	43.2	

	Non-Default Speciations		
3.2	Using only default values		
99			
3.2			

		<b></b>	
EIF ID	351	Site Name	SD State University
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971094
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR SET: CATERPILLAR ENGINE MODEL 3056, 166 BHP; S/N 7AK02298; OLYMPIAN GENERATOR, 100 KW MODEL 95A04660-S, S/N 2023634. LOCATED AT OPEN AIR THEATER. (971094 GDS 3/98) 17 CCR 93 115 SJE 10/05
	EORMATION	ΜΑΤΕΡΙΑΙ	
Device	971094		
Device Description:			1
	APP ATCM SUBMITTAL REGISTERED ENGINE, FORMERLY P/O 950170 EMISSION FACTOR USED IS FROM DIESEL PM DEFAULT AP-42 DIESEL EMISSION FACTOR		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOURCE INFORMATION	
Fuel Type:	DIESEL	Height Above Ground (ft):	8
Engine Manufacturer:	CATERPILLAR	Diameter (ft):	0
Engine Make:	3,056	Exhaust Gas Temperature (F):	0
Engine Model:	1,996	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	166	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	50.1	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	8.95	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	5.6		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	12		
Non Default	mission Factors	Non D-6	ult Cresistions
NON-DETAULT		Non-Deta	
Using only default values		Using only default values	

	251	Sita Nama	SD State University
EIFID	351	Site Name	SD State University
Site Inf	ormation	PERMITI	NFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-971095
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR,
	-		474 HP DETROIT DIESEL MODEL
			8036-7416 DIESEL ENGINE S/N:
			7A00043, TURBOCHARGED,
			AFTERCOOLED. LOCATED AT EAST
			COMMONS ADMINISTRATION.
			97 1095 GDS 3/98 17 CCR 93 115 5JE 10/05
			10,05
DEVICE IN	FORMATION	MATERIAL	INFORMATION
Device:	971095	Material:	1
Device Description:	EMISSION FACTOR USED ARE FROM	EQ Name:	A05-E15
	DIESEL PM DEFAULT AP-42 DIESEL		
	EMISSION FACTOR		
	REGISTERED ENGINE FORMERLY P/O		
	900970		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOL	JRCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	30
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0.5
Engine Make:	8036-7416	Exhaust Gas Temperature (F):	845
Engine Model:	1,991	Exhaust Gas Flowrate (CFM):	2,400
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	474	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	234	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	26.5	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	8.83		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage			
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)	<u> </u>		
Device Operating Schedule:	<u> </u>		
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non Default	mission Eastors	Non Def	ult Speciations
	Emission Factors	Non-Deta	auruspeciations

 Non-Default Speciations

 Using only default values

EIF ID	351	Site Name	SD State University
Cite Infe			
Site info	Srmation	PERMIT	
SRID	APCD1976-SITE-00208		
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY ENGINE GENERATOR, 66HP JOHN DIESEL ENGINE MODEL 4039D, S/N: C04039DF004 APPL# 974529 EFH 03/00. LOCATED AT PARKING STRUCTURE #5. 17 CCR 93 115 SJE 10/05
DEVICE INF	ORMATION	MATERIAI	LINFORMATION
Device:	974529	Material:	1
Device Description:	EMISSION FACTOR USED IS FROM	EQ Name:	A05-E15
	DIESEL PM DEFAULT AP-42 DIESEL EMISSION FACTOR		
MATERIAL/PROCI	ESS INFORMATION	PHYSICAL SOU	JRCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	JOHN DEERE	Diameter (ft):	0
Engine Make:	4039D	Exhaust Gas Temperature (F):	0
Engine Model:	1,997	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	66	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	28.7	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	3.56	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	8.05		
Emergency Operations			
Annual Fuel Usage (gallons/year)	14.5		
Maximum Hourly Fuel Usage (gallons/hour)	3.56		
Typical Load (%)			
Operating Hours (hours/year)	4.07		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		

Non-Default E	mission Factors
Using only default values	

Non-Default Speciations		
Using only default values		

EIF ID	351	Site Name	SD State University
Cite Inde			
Site Info		PERMITI	
SRID	APCD1976-SITE-00208		APCD2005-P10-975254
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY GENERATOR: 11/0 HP
			16V-92TA (8163-7406) DIESEL EIRED
			S/N: 16VF015819. DRIVES A 750 KW
			KOHLER MODEL 750ROZD
			GENERATOR. LOCATED AT
			CHEMICAL SCIENCES LAB. 975254
			EAD 9/1/01 17 CCR 93 115 SJE 10/05
DEVICE INF	ORMATION	MATERIAL	INFORMATION
Device:	975254	Material:	1
Device Description:	EMISSION FACTOR USED ARE FROM	EQ Name:	A05-E10
	DIESEL PM DEFAULT AP-42 DIESEL		
	EMISSION FACTOR		
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOL	IRCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0
Engine Make:	16V-92TA	Exhaust Gas Temperature (F):	0
Engine Model:	2,000	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	UNKNOWN	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	1,170	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	373	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	56.5	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	6.6		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage			
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	12		
Non-Default Fr	mission Factors	Non-Defa	ult Speciations
Using only default values		Using only default values	

Non-Default Emissio	tors N	on
Using only default values	Using only default values	

EIF ID	351	Site Name	SD State University
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-976684
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY STANDBY ENGINE: JOHN DEERE DIESEL ENGINE, MODEL 6068TF250, S/N T06068T872914, 166 BHP, EPA TIER CERTIFIED OF ENGINE FAMILY NUMBER YJDXL06.8014, EQUIPPED WITH TURBOCHARGER, DRIVING A 100 KW GENERATOR. (976684-CCN-11/01) LOCATED AT CUICACALI RESIDENCE HALL. 17 CCR 93 115 SJE 10/05
		MATED	
Device:	076494	Material	
		EO Namo:	1
	0.7, PM 0.2, NOX 5.4 G/BHP-HR PER ARB E.O. U-R-4-75. Upper bound of 0.3 g/bhp-hr (THC EF in U-R-4-75) used for ROG EF.		A05-E15
MATERIAL/PROCE	ESS INFORMATION	PHYSICAL S	OURCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	JOHN DEERE	Diameter (ft):	0
Engine Make:	6068TF250	Exhaust Gas Temperature (F):	0
Engine Model:	2,000	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	YJDXL06.8014	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	166	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	86.4	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	8	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	10.8		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	15		
Non-Default F	mission Factors	Non-D	efault Speciations
Carbon Monoxide (CO)	30.2	Using only default values	
Nitrogen Oxides (NOx)	233	<u> </u>	<b>I</b>
Particulate Matter (PM10)	8.63		
Total Particulates (TSP)	8.63		
Volatile Organic Compounds (VOC)	11.5		
Diesel Particulate	8.63		
Diesel Particulate	8.63		

EIFID	351	Site Name	SD State University
Site Information		PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-976851
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY STANDBY ENGINE:
	•		JOHN DEERE DIESEL ENGINE, MODEL
			4045TF150, S/N: TO4045T864018,
			100 BHP, EPA TIER 1 CERITIFED OF
			TURBOCHARGER DRIVING A 75 KW
			GENERATOR. (976851-CCN-3/02)
			LOCATED AT PARKING STRUCTURE
			#6. 17 CCR 93 115 SJE 10/05
	ORMATION	MATERIA	
Device:	976851	Material:	1
Device Description:	EMISSION FACTORS USED ARE CO	FO Name:	 A05-E15
Bevice Bescription.	0.7, PM 0.2, NOX 5.4 G/BHP-HR PER		705 215
	ARB E.O. U-R-4-75. Upper bound of 0.3		
	g/bhp-hr (THC EF in U-R-4-75) used for		
	ROG EF.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SC	OURCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	JOHN DEERE	Diameter (ft):	0
Engine Make:	4045TF150	Exhaust Gas Temperature (F):	0
Engine Model:	2,000	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	YJDXL06.8014	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	100	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	32.5	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	4.9	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	6.63		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage			
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	13		
Non-Default E	mission Factors	Non-De	fault Speciations
Carbon Monoxide (CO)	30.2	Using only default values	-
Nitrogen Oxides (NOx)	233		•
Particulate Matter (PM10)	8.63		
Total Particulates (TSP)	8.63		
Volatile Organic Compounds (VOC)	11.5		
Diesel Particulate	8.63		
		L	

EIFID	351	Site Name	SD State University
Site Info	ormation	PERMIT	
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-977645
Site Address:	5500 Campanile Dr	Permit Description:	INTERNAL COMBUSTION ENGINE. MAKE: DETROIT DIESEL/MTU. MODEL 12V-2000 G81. SERIAL NO.730919. BHP RATING; 1120 HP. DIESEL FUELED. EQUIPPED WITH A TURBOCHARGER AND AFTERCOOLER. DRIVES AN
			GENERATOR RATED AT 836 KW. BLACK START ENGINE LOCATED AT PHYSICAL PLANT. 17 CCR 93 115 SJE 10/05
DEVICE INF	ORMATION	MATERIA	
		Material:	1
Device Description:	EMISSION FACTORS USED ARE NOX	EQ Name:	A05-E10
	G/KW-HR PER ARB E.O. U-R-7-63		
MATERIAL/PROCI	ESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0
Engine Make:	12V-2000 G81	Exhaust Gas Temperature (F):	0
Engine Model:	2,001	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	1DDXL31.8XRE	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	1,120	Other Control Type:	
Non-Emergency Operations			
- Annual Fuel Usage (gals/year):	264	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	54.7	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	4.83		
Emergency Operations			
Annual Fuel Usage (gallons/year)	109		
Maximum Hourly Fuel Usage (gallons/hour)	54.7		
Typical Load (%)	<u> </u>		
Operating Hours (hours/year)	2		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non-Default E	mission Factors	Non-Def	ault Speciations
Carbon Monoxide (CO)	25.8	Using only default values	
Nitrogen Oxides (NOx)	286		
Particulate Matter (PM10)	2.57		
Total Particulates (TSP)	2.57		
Volatile Organic Compounds (VOC)	9.65		
Diesel Particulate	2.57		

EIFID	351	Site Name	SD State University
Site Information		PERMITI	NFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2005-PTO-980213
Site Address:	5500 Campanile Dr	Permit Description:	WOOD, METAL, AND
			MISCELLANEOUS COATING
			OPERATION: ONE (1) JBI MODEL
			IDB108, 12'2"L X 10'4"W X8'2"H,
			PAINT SPRAY BOOTH, EQUIPPED
			APPLY COATINGS, LOCATED AT THE
			TORNITORE LAD.
DEVICE INFO	ORMATION	MATERIAL	INFORMATION
Device:	980213	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	F01-P09
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SOU	RCE INFORMATION
Note: Report Transfer Efficiency (%) and		Height Above Ground (ft):	0
Fallout Percent (%) using the APCD refe		Diameter (ft):	0
Material Name:	MISC PAINT	Exhaust Gas Temperature (F):	0
Manufacturer/Supplier:	VARIOUS	Exhaust Gas Flowrate (CFM):	0
Annual Material Usage (gals/year):	4	Control Device Description	
Waste Shipped Off Site (gals/year):	0	Capture Efficiency (%):	0
Maximum Hourly Usage (gals/hour):	1	Volatile Control Efficiency (%):	0
Density (lbs/gal):	10	Non-Volatile Control Efficiency (%):	0
VOC Content (lbs/gal):	2.4	Emission Control Method:	
Percent Solids [%]		Volatile Control Efficiency (%):	0
Application Method:		Non-Volatile Control Efficiency (%):	0
Transfer Efficiency (%):	0	Additional Information:	
Fallout Percent (%):	0	Capture Efficiency (%):	100
Type of Operation:		STACK (DUCTED EMISSIONS)	
Type of Material:		RELEASE (FUGITIVE EMISSIONS)	
Water-based coating (yes/no):	No	LOCATION	
Device Operating Schedule:		Longitude (Decimal Degrees)	
- Daily Operation (hours/day):	0	Latitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Datum	
- Annual Operation (days/year):	8	Is this location confidential?:	
Non-Default En	hission Factors	Non-Defa	ult Speciations
Using only default values		Lising only default values	

EIF ID	351	Site Name	SD State University
Site Information		DEDMIT	
SRID	APCD1976-SITE-00208	Permit Number	APCD2006-PTO-030441
Site Address:	5500 Campanile Dr	Permit Description:	Gasoline dispensing facility (non-retail):
			one (1) Healy 900 nozzle with one (1)
			grade per nozzlePhase II: Healy vacuum
			assist per ARB EO VR-201-FCAS
			configuration: vertical position per
			Figure 2b-2, Exhibit 2 of EO
			VR-201-FPhase I: two point CNI per
			ARBEO VR-104-Alank: one (1) 12,000
			982802/PKM-10/02-Dec-2005)(App#
			986266/SH 12-Jan-2010)
			,00200,011 22 2011 20 20,
DEVICE INFO	ORMATION	MATERIA	L INFORMATION
Device:	30441	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	EQ Name:	L02-G11
Type of Operation (retail/non-retail) :	NON-RETAIL	STACK (DUCTED EMISSIONS)	
Annual Gasoline Thru-put (gal/year):	42.824	Height Above Ground (ft):	0
Max. Gasoline Delivery (gallons):	18.000	Diameter (ft):	0
Max. Storage Tank Capacity (gallons):	12,000	Exhaust Gas Temperature (F):	0
Underground Storage Tanks (yes/no):	Yes	Exhaust Gas Flowrate (CFM):	0
- Phase I Vapor Recovery (yes/no):	Yes	LOCATION	
- Pre-EVR (yes/no)	No	Longitude (Decimal Degrees)	
- EVR (yes/no):	No	Latitude (Decimal Degrees)	
- Phase II Vapor Recovery (yes/no):	Yes	Datum	
- Pre-EVR (yes/no)	No	Is this location confidential?:	
- EVR (yes/no):	No		
Aboveground Storage Tanks (yes/no):	No		
- CARB Protected Tank (yes/no):	No		
- Phase I Vapor Recovery (yes/no):	No		
- Pre-EVR (yes/no):	No		
- EVR (yes/no):	No		
- Phase II Vapor Recovery (yes/no):	No		
- Pre-EVR (yes/no):	No		
- EVR (yes/no):	No		
Device Operating Schedule:			
- Daily Operation (hours/day):	24		
- Weekly Operation (days/week):	7		
- Annual Operation (days/year):	365		
Non-Default En	nission Factors	Non-De	fault Speciations

Non-Default Speciations		
Using only default values		

EIFID	351	Site Name	SD State University
Site Info	ormation	PERMITIN	ORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2006-PTO-984091
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY STANDBY DIESEL ENGINE: DETROIT DIESEL SERIES 60-6063HV35, S/N: 06R0911198, 490 BHP, TURBOCHARGED,
			AFTERCOOLED, EPA TIER 3 CERTIFIED OF ENGINE FAMILY #5DDXL14.0VLD, CARB #U-R007-0103, DRIVING A 300 KW KOHLER GENERATOR. 984091-SJE-07/2006. LOCATED AT PUBLIC SAFETY.
DEVICE INF	ORMATION	MATERIALIN	FORMATION
Device:	984091	Material:	1
Device Description:	EMISSIONS FACTORS USED ARE NMHC+NOX 3.9, CO 1.2, PM 0.18 G/KW-HR PER ARB E.O. U-R-007-0103	EQ Name:	A05-E15
MATERIAL/PROCI	ESS INFORMATION	PHYSICAL SOUR	CE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0
Engine Make:	60-6063HV35	Exhaust Gas Temperature (F):	0
Engine Model:	2,005	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	5DDXL14.0VLD	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	490	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	161	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	22.6	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	7.12		4
Emergency Operations			
Annual Fuel Usage (gallons/year)	46.9		
Maximum Hourly Fuel Usage (gallons/hour)	22.6		
Typical Load (%)			
Operating Hours (hours/year)	2.07		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non-Default E	mission Factors	Non-Defaul	t Speciations
Carbon Monoxide (CO)	38.6	Using only default values	
Nitrogen Oxides (NOx)	119		
Particulate Matter (PM10)	5.79		
Total Particulates (TSP)	5.79		
Volatile Organic Compounds (VOC)	6.28		
Diesel Particulate	5.79		

EIF ID	351	Site Name	SD State University
Site Information		PERMI	ΤΙΝΕΩΡΜΑΤΙΩΝ
SRID		Permit Number	APCD2007-PTO-983770
Site Address:	5500 Campanile Dr	Permit Description:	EMERGENCY STANDBY ENGINE: 415 BHP DETROIT DIESEL MODEL SERIES 60 /6063-MK35 DIESEL FIRED ENGINE WITH AFTERCOOLING, TURBOCHARGING, CARB # U-R-007-0086; EPA # DDX-NR7-04-02, DRIVING A 265 KW GENERATOR, S/N: 2055095983770 EAD 3/19/07. LOCATED AT STUDENT HEALTH SERVICES.
DEVICE INF	ORMATION	MATERI	AL INFORMATION
Device:	983770	Material:	1
Device Description:	EMISSION FACTORS USED ARE	EO Name:	A05-E15
	NMHC+NOX 5.8, CO 0.8, PM 0.18 G/KW-HR PER ARB E.O. U-R-007-0086.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SC	OURCE INFORMATION
Fuel Type:	DIESEL	Height Above Ground (ft):	0
Engine Manufacturer:	DETROIT DIESEL	Diameter (ft):	0
Engine Make:	60/6063-MK35	Exhaust Gas Temperature (F):	0
Engine Model:	2,004	Exhaust Gas Flowrate (CFM):	0
Engine Year		Control Device Description	
Engine Family Number:	4DDXL12.7VGD	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	415	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	88.7	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	10.9	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	50	Is this location confidential?:	
- Operating Hours (hours/year):	8.13		
Emergency Operations			
Annual Fuel Usage (gallons/year)	29.1		
Maximum Hourly Fuel Usage	10.9		
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)	2.67		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
Non-Default F	mission Factors	Non-De	efault Speciations
Carbon Monoxide (CO)	25.8	Using only default values	
Nitrogen Oxides (NOx)	177		I
Particulate Matter (PM10)	5.79		
Total Particulates (TSP)	5.79		
Volatile Organic Compounds (VOC)	9.33		

5.79

EIF ID	351	Site Name	SD State University
Site Inf	ormation	PERMIT	INFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2015-PTO-002259
Site Address:	5500 Campanile Dr	Permit Description:	Abrasive Blast Cabinet: Clemco
			Industries Corp., Model BNP 220P
			900R&DF, S/N Z56853, equipped with a
			dust collector; and a Clemco Blast
			Machine, Model 1642, S/N C13140.
DEVICE IN	FORMATION	MATERIA	LINFORMATION
Device:	225900	Material:	1
Device Description:	Same as permit description	EQ Name:	D01-A10
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Material Name:	999	Height Above Ground (ft):	
Other:	50lbs	Diameter (ft):	
Annual Material Usage (tons/year):	0	Exhaust Gas Temperature (F):	
Max. Hourly Blast Rate (tons/hour):	0	Exhaust Gas Flowrate (CFM):	
Avg. Hourly Blast Rate (tons/hour):	0	Control Device Description	
Equipped With:		Capture Efficiency (%):	100
- Recycle System (yes/no):	No	Solids Control Efficiency (%):	0
- Other Controls (please describe):		Emission Control Method:	
Blasted Parts Coated With:		Solids Control Efficiency (%):	0
- Chromium Compounds (yes/no):	No	Additional Information:	
- Copper Compounds (yes/no):	No	Capture Efficiency (%):	0
- Lead Compounds (yes/no):	No	STACK (DUCTED EMISSIONS)	
- Nickel Compounds (yes/no):	No	RELEASE (FUGITIVE EMISSIONS)	
Device Operating Schedule:		LOCATION	
- Daily Operation (hours/day):	0	Longitude (Decimal Degrees)	
- Weekly Operation (days/week):	0	Latitude (Decimal Degrees)	
- Annual Operation (days/year):	0	Datum	
		Is this location confidential?:	
Non-Default F	mission Factors	Non-De	fault Speciations
Using only default values		Using only default values	

EIF ID	351	Site Name	SD State University
	·		
Site Inf	ormation	PERMIT	NFORMATION
SRID	APCD1976-SITE-00208	Permit Number	APCD2016-PTO-002751
Site Address:	5500 Campanile Dr	Permit Description:	Emergency standby engine: John Deere diesel engine, Model 6135HFG75, S/N RG6135G006769, rated at 755 bhp, Model Year 2015, Tier 2 certified of Engine Family Number FJDXL13.5132, driving a 500 KW generator.
DEVICE IN	FORMATION	MATERIAI	INFORMATION
Device:	2751	Material:	1
Device Description:	Same as Permit Description	EQ Name:	A05-E10
	EPA certified emission factors: PM, 0.05 g/bhp-hr; CO, 0.4 g/bhp-hr; NOx, 4.17 g/bhp-hr; NMHC, 0.089 g/bhp-hr.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SOU	JRCE INFORMATION
Fuel Type:	Diesel	Height Above Ground (ft):	
Engine Manufacturer:	John Deere	Diameter (ft):	
Engine Make:	6135HFG75	Exhaust Gas Temperature (F):	
Engine Model:	2,015	Exhaust Gas Flowrate (CFM):	
Engine Year		Control Device Description	
Engine Family Number:	FJDXL13.5132	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	755	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	252	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	39	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	6.47		
Emergency Operations			
Annual Fuel Usage (gallons/year)	95.6		
Maximum Hourly Fuel Usage (gallons/hour)	39		
Typical Load (%)			
Operating Hours (hours/year)	2.45		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	13		
Non-Default E	mission Factors	Non-Def	ault Speciations
	173	Using only default values	
Nitrogen Oxides (NOx)	180		
Particulate Matter (PM10)	2 16		
Total Particulates (TSP)	2.16		

3.84 2.16

Volatile Organic Compounds (VOC)

EIF ID	351	Site Name	SD State University
Site Inf	ormation	PERMIT INFORMATION	
SRID	APCD1976-SITE-00208	Permit Number	APCD2018-PTO-003037
Site Address:	5500 Campanile Dr	Permit Description:	Emergency Diesel Engine Generator: John Deere Model 6135HFG75, S/N RG6135G008326; Engine FamilyGJDXL13.5132; tier 2 certified; 755 bhp rated; turbocharged with air cooler; driving an emergency electrical generator
DEVICE IN	FORMATION	MATERIA	LINFORMATION
Device:	3037	Material:	1
Device Description:	SAME AS PERMIT DESCRIPTION	FO Name:	
	EPA certified emission factors: PM, 0.05 g/bhp-hr; CO, 0.4 g/bhp-hr; NOx, 4.17 g/bhp-hr; NMHC, 0.089 g/bhp-hr.		
MATERIAL/PROC	ESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Fuel Type:	Diesel	Height Above Ground (ft):	
Engine Manufacturer:	John Deere	Diameter (ft):	
Engine Make:	613HFG75	Exhaust Gas Temperature (F):	
Engine Model:	2,016	Exhaust Gas Flowrate (CFM):	
Engine Year		Control Device Description	
Engine Family Number:	GJDXL13.5132	Control Efficiency (%):	0
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	755	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	312	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	39	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	100	Is this location confidential?:	
- Operating Hours (hours/year):	8		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)			
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	12		
Non-Default I	Emission Factors	Non-Det	fault Speciations
Carbon Monoxide (CO)	17.3	Using only default values	
Nitrogen Oxides (NOx)	180		
Particulate Matter (PM10)	2.16		
Total Particulates (TSP)	2.16		

3.84

2.16

Volatile Organic Compounds (VOC)

Site Information SRID Site Address:	APCD1976-SITE-00208 5500 Campanile Dr	Permit Number Permit Description:	TINFORMATION  APCD2019-PTO-003308  Emergency Diesel Engine Generator:  Labor Darma Machel (1007)/5001.000	
Site Information SRID Site Address:	APCD1976-SITE-00208 5500 Campanile Dr	PERMIT Permit Number Permit Description:	TINFORMATION APCD2019-PTO-003308 Emergency Diesel Engine Generator:	
SRID Site Address:	APCD1976-SITE-00208 5500 Campanile Dr	Permit Number Permit Description:	APCD2019-PTO-003308 Emergency Diesel Engine Generator:	
Site Address:	5500 Campanile Dr	Permit Description:	Emergency Diesel Engine Generator:	
			Jonn Deere, Model 6135HFG84, S/N RG6135L035279; Model Year 2018; Engine Family JJDXL13.5146; Tier 3 certified; 538 bhp rated; equipped with a Miratech LTRV9-06-HSG-0 DPF; driving a 360 kW emergency electrical generator.	
	2209	Material		
Device.	ormit description		1	
EMISSIO 2.69, NM G/HP-HF CALCUL	N FACTORS USED ARE NOX HC 0.13, CO 1.12, PM 0.01 PER ENG EVAL ATIONS			
MATERIAL/PROCESS INF	ORMATION	PHYSICAL SOURCE INFORMATION		
Fuel Type:	Diesel	Height Above Ground (ft):		
Engine Manufacturer:	John Deere	Diameter (ft):		
Engine Make:	6135HFG84	Exhaust Gas Temperature (F):		
Engine Model:	2,018	Exhaust Gas Flowrate (CFM):		
Engine Year		Control Device Description	DPM EF built in with 85% control from	
Engine Family Number:	JJDXL13.5146		DPF	
Engine Tier (1-4):		Control Efficiency (%):	0	
Engine Rating (bhp):	538	STACK (DUCTED EMISSIONS)		
Non-Emergency Operations		Other Control Type:		
- Annual Fuel Usage (gals/year):	88	LOCATION		
- Max Hourly Fuel Usage (gals/hour):	26.5	Longitude (Decimal Degrees)		
Renewable Diesel Used (yes/no):	no	Latitude (Decimal Degrees)		
- Typical Load (%):	100	Datum		
- Operating Hours (hours/year):	3.32	Is this location confidential?:		
Emergency Operations				
Annual Fuel Usage (gallons/year)	102			
Maximum Hourly Fuel Usage (gallons/hour)	26.5			
Typical Load (%)				
Operating Hours (hours/year)	3.83			
Device Operating Schedule:				
- Daily Operation (hours/day):	0			
- Weekly Operation (days/week):	0			
- Annual Operation (days/year):	15			
	Fastara	Ne: D	fault Spaciations	
	raciors (0.0	Non-De		
	48.3	Using only default values	I	

0.43 0.43

5.61

0.43

Particulate Matter (PM10)

Volatile Organic Compounds (VOC)

Total Particulates (TSP)



San Diego.County Air Pollution Control District

EIFID	351
SRID	APCD2013-SITE-01322
Facility	SD State University
Reporting Year	2021
Generated	2023-07-20

EIF ID	351	Site Name	SD State University
Site Info	rmation	PERMIT	INFORMATION
SRID	APCD2013-SITE-01322	Permit Number	APCD2013-PTO-001693
Site Address:	5200 Campanile Dr	Permit Description:	Emergency standby engine: John Deere diesel engine, Model 6135HF485T (S/N: RG6135L027650), rated at 538 BHP, Model Year 2012 EPA Tier 3 certified Engine Family Number CJDXL13.5103, driving a 350 KW generator. Equipped with turbocharger and aftercooler.
DEVICE INF	ORMATION	MATERIA	AL INFORMATION
	1693	Material:	1
Device Description:	Same as permit description	FO Name:	۔ ۵۵۶-F15
	EPA certified emission factors: PM, 0.1 g/kW-hr; CO, 0.6 g/kW-hr; NOx, 3.31 g/kW-hr; NMHC, 0.11 g/kW-hr		
MATERIAL/PROCE	SS INFORMATION	PHYSICAL SC	OURCE INFORMATION
Fuel Type:	Diesel	Height Above Ground (ft):	
Engine Manufacturer:	John Deere	Diameter (ft):	
Engine Make:	6125HF485T	Exhaust Gas Temperature (F):	
Engine Model:	2,012	Exhaust Gas Flowrate (CFM):	
Engine Year		Control Device Description	
Engine Family Number:	CJDXL13.5103	Control Efficiency (%):	
Engine Tier (1-4):	3	STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	538	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	251	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	27.5	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):		Is this location confidential?:	
- Operating Hours (hours/year):	9.13		
Emergency Operations			
Annual Fuel Usage (gallons/year)			
Maximum Hourly Fuel Usage (gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)	3.67		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	15		
Non-Default Emission Factors		Non-De	fault Speciations
Carbon Monoxide (CO)	19.3	Using only default values	
Nitrogen Oxides (NOx)	107		•
Particulate Matter (PM10)	3.22		
Total Particulates (TSP)	3.22		
Volatile Organic Compounds (VOC)	3.54		
Diesel Particulate	3.22		



San Diego.County Air Pollution Control District

EIFID	351
SRID	APCD2014-SITE-01778
Facility	SD State University
Reporting Year	2021
Generated	2023-07-20

EIF ID	351	Site Name	SD State University
Site Inf	ormation	DEDMIT	
SRID	APCD2014-SITE-01778	Permit Number	APCD2015-PTO-002369
Site Address:	6124 Montezuma Road	Permit Description:	Emergency standby engine: Cummins diesel engine, Model QSB7-G5 NR3 (S/N: 73773495), rated at 324 BHP, Model Year 2014, EPA Tier 3 certified Engine Family Number ECEXL0409AAD, driving a 325 KW generator. Equipped with turbocharger and aftercooler.
DEVICE INF	ORMATION	MATERIA	
Device:	2369	Material:	
Device Description:	Same as permit description	FO Name:	 A05-F15
	EMISSION FACTORS USED ARE NOX+HC 2.7, CO 0.70, PM 0.07 G/HP-HR PER ENG EVAL CALCS		
MATERIAL/PROCI	ESS INFORMATION	PHYSICAL SO	URCE INFORMATION
Fuel Type:	Diesel	Height Above Ground (ft):	
Engine Manufacturer:	Cummins	Diameter (ft):	
Engine Make:	QSB7-G5	Exhaust Gas Temperature (F):	
Engine Model:	2,014	Exhaust Gas Flowrate (CFM):	
Engine Year		Control Device Description	
Engine Family Number:	ECEXL0409AAD	Control Efficiency (%):	
Engine Tier (1-4):		STACK (DUCTED EMISSIONS)	
Engine Rating (bhp):	324	Other Control Type:	
Non-Emergency Operations		LOCATION	
- Annual Fuel Usage (gals/year):	204	Longitude (Decimal Degrees)	
- Max Hourly Fuel Usage (gals/hour):	28	Latitude (Decimal Degrees)	
Renewable Diesel Used (yes/no):	no	Datum	
- Typical Load (%):	7.0	Is this location confidential?:	
- Operating Hours (nours/year):	7.3		
Emergency Operations			
Annual Fuel Osage (gallons/year)			
(gallons/hour)			
Typical Load (%)			
Operating Hours (hours/year)	1		
Device Operating Schedule:			
- Daily Operation (hours/day):	0		
- Weekly Operation (days/week):	0		
- Annual Operation (days/year):	14		
	·		
Non-Default Emission Factors		Non-De	fault Speciations
Carbon Monoxide (CO)	30.2	Using only default values	
Nitrogen Oxides (NOx)	111		
Particulate Matter (PM10)	3.02		
Total Particulates (TSP)	3.02		
Volatile Organic Compounds (VOC)	5.83		
Diesel Particulate	3.02		



Inventory: 2021 - 2021 Inventory Production

#### EIF ID: 351 Facility Name: SD State University

Site Record ID:	Device ID	Air Permit Number	Resident Distance (m)	Occupational Distance (m)	Acute Distance (m)
APCD2013-SITE- 01322	1693	APCD2013-PTO-001693	161	208	105
APCD1976-SITE- 00208	1803	APCD2000-PTO-001803	50	50	50
APCD1976-SITE- 00208	20000	0	50	50	50
APCD1976-SITE- 00208	225900	APCD2015-PTO-002259	350	479	350
APCD2014-SITE- 01778	2369	APCD2015-PTO-002369	50	50	50
APCD1976-SITE- 00208	2751	APCD2016-PTO-002751	214	161	106
APCD1976-SITE- 00208	3000	1	50	50	50
APCD1976-SITE- 00208	3037	APCD2018-PTO-003037	384	560	267
APCD1976-SITE- 00208	30441	APCD2006-PTO-030441	50	50	50
APCD1976-SITE- 00208	3308	APCD2019-PTO-003308	138	247	138
APCD1976-SITE- 00208	539801	APCD2003-PTO-975398	262	360	262
APCD1976-SITE- 00208	539802	APCD2003-PTO-975398	276	374	276
APCD1976-SITE- 00208	539901	APCD2003-PTO-975399	262	360	262
APCD1976-SITE- 00208	539902	APCD2003-PTO-975399	276	374	276



#### HHRP Specific Distance

Inventory: 2021 - 2021 Inventory Production

APCD1976-SITE- 00208	841	APCD2004-PTO-000841	286	383	286
APCD1976-SITE- 00208	900967	APCD2000-PTO-900967	50	50	50
APCD1976-SITE- 00208	900969	APCD2000-PTO-900969	50	50	50
APCD1976-SITE- 00208	920191	APCD2004-PTO-920191	286	383	286
APCD1976-SITE- 00208	951138	APCD2005-PTO-951138	412	360	360
APCD1976-SITE- 00208	961607	APCD2000-PTO-961607	414	422	219
APCD1976-SITE- 00208	961608	APCD2000-PTO-961608	308	422	308
APCD1976-SITE- 00208	961940	APCD2005-PTO-961940	363	461	348
APCD1976-SITE- 00208	970555	APCD2005-PTO-970555	417	541	335
APCD1976-SITE- 00208	971088	APCD2005-PTO-971088	216	424	216
APCD1976-SITE- 00208	971090	APCD2005-PTO-971090	210	213	134
APCD1976-SITE- 00208	971091	APCD2005-PTO-971091	129	238	129
APCD1976-SITE- 00208	971093	APCD2005-PTO-971093	135	142	107
APCD1976-SITE- 00208	971094	APCD2005-PTO-971094	490	427	158
APCD1976-SITE- 00208	971095	APCD2005-PTO-971095	262	281	143
APCD1976-SITE- 00208	973015	APCD2001-PTO-973015	50	50	50



#### HHRP Specific Distance

Inventory: 2021 - 2021 Inventory Production

APCD1976-SITE- 00208	974529	APCD2005-PTO-974529	247	84.3	84.3
APCD1976-SITE- 00208	975254	APCD2005-PTO-975254	236	317	149
APCD1976-SITE- 00208	976684	APCD2005-PTO-976684	251	248	132
APCD1976-SITE- 00208	976851	APCD2005-PTO-976851	131	141	131
APCD1976-SITE- 00208	977230	APCD2002-PTO-977230	50	50	50
APCD1976-SITE- 00208	977645	APCD2005-PTO-977645	246	345	246
APCD1976-SITE- 00208	980213	APCD2005-PTO-980213	50	50	50
APCD1976-SITE- 00208	983770	APCD2007-PTO-983770	268	304	106
APCD1976-SITE- 00208	984091	APCD2006-PTO-984091	303	231	231
APCD1976-SITE- 00208	987762	0	50	50	50