EPA
VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One): Method 9 (circled) 203A 203B Other: _____

Company Name: Dayton Power and Light
Facility Name: DP&L - Stuart Station
Street Address: [redacted] US 52
City: Aberdeen | State: OH | Zip: 45101

Process: Coal-fired powerplant | Unit #: | Operating Mode:
Control Equipment: SCR, FGD, ESP | Operating Mode:

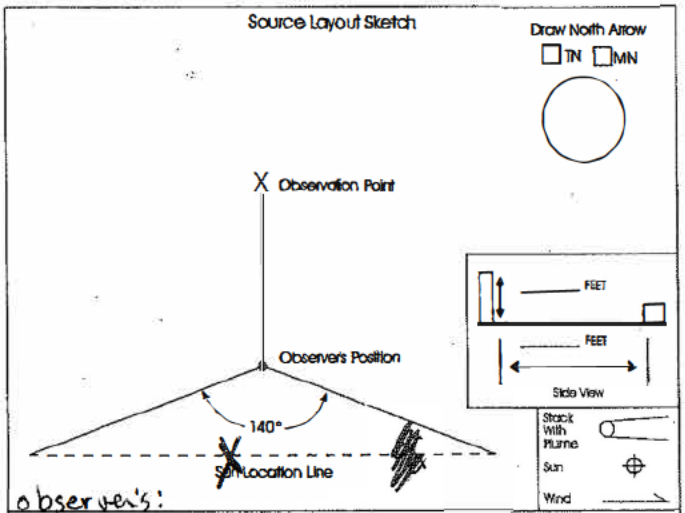
Describe Emission Point: Combined FGD Stack
Stack Height ≈ 800'
Height of Emiss. Pt. Start ~1,200' End ~1,200' | Height of Emiss. Pt. Rel. to Observer Start ~750' End
Distance to Emiss. Pt. Start ~7,000' End ~7,000' | Direction to Emiss. Pt. (Degrees) Start NW End

Vertical Angle to Obs. Pt. Start End | Direction to Obs. Pt. (Degrees) Start End
Distance and Direction to Observation Point from Emission Point Start End

Describe Emissions: Start steam plume w/ trailing white/bluish plume End
Emission Color: white/bluish Start End | Water Droplet Plume: Attached ☑ Detached ☑ None ☐

Describe Plume Background: Start blue sky End
Background Color: Start blue End | Sky Conditions: Start Clear End
Wind Speed: Start 8.1mph End 8.1mph | Wind Direction: Start West End West
Ambient Temp.: Start 53.2 End ~54.9 | Wet Bulb Temp. | RH Percent 60%-57%

Source Layout Sketch



observer's:
Longitude: 83° 39' 59.84" W | Latitude: 38° 37' 25.80" N | Declination:

Additional Information: Reading taken from across river on platform at Carmeuse plant

Form Number: 1 | Page 1 Of 1
Continued on VEO Form Number: NA

Observation Date: 11/10/16 | Time Zone: EST | Start Time: 11:38 | End Time: 12:08

Min \ Sec	0	15	30	45	Comments
1	50	60	50	55	
2	40	35	30	40	
3	25	25	40	45	
4	50	45	45	40	
5	35	35	35	30	
6	30	20	20	20	
7	25	30	25	25	
8	30	35	15	15	
9	15	20	20	20	
10	20	20	20	25	
11	15	15	20	30	
12	40	40	40	40	
13	35	35	35	40	
14	35	35	40	45	
15	50	55	55	60	
16	50	40	40	50	
17	45	30	30	35	
18	35	30	25	30	
19	35	20	20	20	
20	25	25	30	35	
21	40	45	40	40	
22	35	40	30	30	
23	50	50	50	40	
24	30	35	40	35	
25	35	25	25	30	
26	40	35	25	25	
27	30	45	30	20	
28	20	15	15	20	
29	25	20	25	30	
30	25	20	25	25	@12:08

Observer's Name (Print): Ethan Chatfield
Observer's Signature: Ethan Chatfield | Date: 11/10/16
Organization: US EPA
Certified By: Illinois EPA | Date: 10/12/16

VEOF1.1

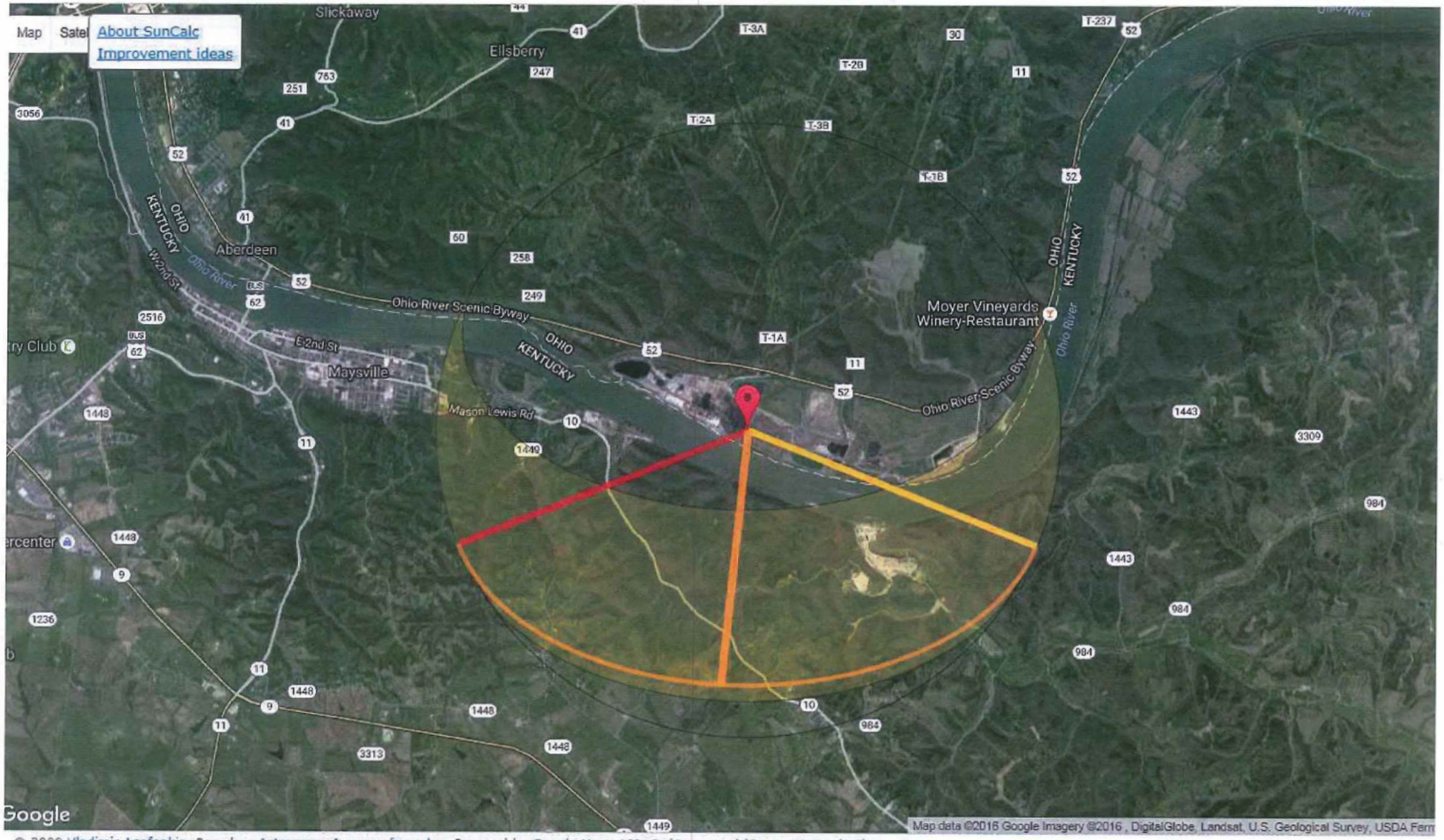
Weather Underground.com

Date - 11/10/16

Time (EST)	Temp.	Windchill	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
9:35 AM	45.9 °F	44.6 °F	44.4 °F	95%	30.26 in	10.0 mi	SW	3.5 mph	-	N/A		Clear
	METAR KI69 101435Z AUTO 23003KT 10SM CLR 08/07 A3026 RMK AO2 T00770069											
9:55 AM	48.4 °F	-	41.2 °F	76%	30.26 in	10.0 mi	SW	6.9 mph	-	N/A		Clear
	METAR KI69 101455Z AUTO 23006KT 10SM CLR 09/05 A3026 RMK AO2 T00910051											
10:14 AM	49.5 °F	-	41.0 °F	73%	30.25 in	10.0 mi	SW	6.9 mph	-	N/A		Clear
	METAR KI69 101514Z AUTO 23006KT 10SM CLR 10/05 A3025 RMK AO2 T00970050											
10:35 AM	50.2 °F	-	39.9 °F	68%	30.25 in	10.0 mi	West	6.9 mph	-	N/A		Clear
	METAR KI69 101535Z AUTO 26006KT 10SM CLR 10/04 A3025 RMK AO2 T01010044											
10:55 AM	51.1 °F	-	39.6 °F	65%	30.25 in	10.0 mi	SW	8.1 mph	-	N/A		Clear
	METAR KI69 101555Z AUTO 23007KT 10SM CLR 11/04 A3025 RMK AO2 T01060042											
11:14 AM	52.2 °F	-	39.9 °F	63%	30.24 in	10.0 mi	West	8.1 mph	-	N/A		Clear
	METAR KI69 101614Z AUTO 28007KT 10SM CLR 11/04 A3024 RMK AO2 T01120044											
11:35 AM	53.2 °F	-	39.7 °F	60%	30.23 in	10.0 mi	West	8.1 mph	-	N/A		Clear
	METAR KI69 101635Z AUTO 26007KT 10SM CLR 12/04 A3023 RMK AO2 T01180043											
11:55 AM	54.3 °F	-	39.9 °F	58%	30.22 in	10.0 mi	WSW	6.9 mph	-	N/A		Clear
	METAR KI69 101655Z AUTO 25006KT 10SM CLR 12/04 A3022 RMK AO2 T01240044											
12:14 PM	54.9 °F	-	39.7 °F	57%	30.21 in	10.0 mi	West	8.1 mph	-	N/A		Clear
	METAR KI69 101714Z AUTO 26007KT 10SM CLR 13/04 A3021 RMK AO2 T01270043											
12:35 PM	55.6 °F	-	39.6 °F	55%	30.20 in	10.0 mi	WSW	9.2 mph	-	N/A		Clear
	METAR KI69 101735Z AUTO 24008KT 10SM CLR 13/04 A3020 RMK AO2 T01310042											
12:55 PM	56.7 °F	-	39.7 °F	53%	30.18 in	10.0 mi	WSW	5.8 mph	-	N/A		Clear
	METAR KI69 101755Z AUTO 25005KT 10SM CLR 14/04 A3018 RMK AO2 T01370043 10137 20000											
1:14 PM	57.9 °F	-	38.8 °F	49%	30.17 in	10.0 mi	WSW	8.1 mph	-	N/A		Clear
	METAR KI69 101814Z AUTO 25007KT 10SM CLR 14/04 A3017 RMK AO2 T01440038											
1:35 PM	58.6 °F	-	36.7 °F	44%	30.16 in	10.0 mi	WSW	11.5 mph	-	N/A		Clear
	METAR KI69 101835Z AUTO 24010KT 10SM CLR 15/03 A3016 RMK AO2 T01480026											
1:54 PM	59.0 °F	-	37.2 °F	44%	30.16 in	10.0 mi	SW	9.2 mph	-	N/A		Clear

SunCalc for Stuart Station, DP&L on 11 Nov, 2016 now

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00



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