Site ID:

R7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

						Monitoring	- Monitoring		g & ==
آج آ	Type of	Emission Limit	FE ¹	Future Effective	Section 1 and 1 an	Requirements	Frequency ²	and the contract of the contra	Z 2 0
Item	Limit	Citation		Date	Emission Limits	Citation		Monitoring Type	Com
Soi		rces_		The second secon			y granity was		1
-			T	1	Ground level SO2 concentrations (0.5 ppm	9-1-501 requires			
					for 3 min; 0.25 ppm for 60 min; 0.05 ppm for	compliance with			
1	SO2	BAAQMD 9-1-301	Y		24 hr)	BAAQMD 1-510	С	SO2 GLM	Υ
Г		BAAQMD Condition		1		BAAQMD Condition	İ		
2	NH3	23181, part A.2	Υ		Ammonia solution less than 20% by weight	23181, part A.2	P/E	Records	Υ
ĺ	Organic				Emission streams with 15 lb/day AND 300				
3		BAAQMD 8-2-301	Y		ppm total carbon on a dry basis prohibited	None	l N	None	Y
		drogen Plant	1071-114		The second secon		- 100,000	The second secon	
300	il ce. Sil:-illy	drogeneriance. As a se-	T -	T	100	1			
ĺ	İ				Abatement of emissions from process vessel				
			1		depressurization is required until pressure is	8-10-401.2 (SIP) and 8-			
4	POC	BAAQMD 8-10-301	Y		reduced to less than 1000 mm Hg	10-501 & 502 (non-SIP)	P/E	Records	Y
÷	100	BAAQMD Condition			Todasco to 1000 trial 1000 trial 15	BAAQMD Condition			
2	POC	23178, part 4	Y	1	Deaerator vent POC emissions < 4.35 lb/day	23178, part 9a	P/A	Source test	Υ ΄
_	1.00	BAAQMD Condition				BAAQMD Condition		Inspection and	
3	POC	23178, part 6	Y		Fugitive mass emissions < 3,000 lb/yr	23178, part 18	P/Q	calculations	Υ
	1		1	1				Annual source tests,	
	į	BAAQMD Condition				BAAQMD Condition		inspection data, and	
4	POC	23181, part 2d	Y		13.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Υ
							İ		
	Organic				Emission streams with 15 lb/day AND 300	BAAQMD Condition	P/A	Course toot	¥
5	compounds	BAAQMD 8-2-301	Y		ppm total carbon on a dry basis prohibited	23178, part 9a	PIA	Source test	1
_	<u> </u>	BAAQMD Condition	١.,		400 MM - f UO/dess amount asserts	BAAQMD Condition 23178, part 1	P/D	Records	Y
6	Throughput	23178, part 1	Y	-	120 MMscf H2/day, annual average	BAAQMD Condition		records	<u>'</u>
7	LILI2	BAAQMD 7-303	N		5000 ppm	23178, part 9b	P/A	Source test	Y
⊬-	NH3	BAAQMD 7-303 BAAQMD Condition	N		5000 ppm	BAAQMD Condition	 	Courto tost	·-
8	NH3	23178, part 5	l N		0.64 lb/hr	23178, part 9b	P/A	Source test	·Υ
۴_	Electrical	BAAQMD Condition	I IN	+	0.04 10/111	BAAQMD Condition			
9	production	23178, part 2	Ιγ		< 12 MW	23178, part 2	l c	Records	Y
٣	Hydrogen	BAAOMD Condition	 '	_		BAAQMD Condition	1 -	Hydrogen flow	
10	production	23178, part 1	Y		120 MMscf H2/day	23178, part 1	l c	monitoring	Y

Air Liquide Large Industries US LP - Rodeo Hydrogen Plant

Page 1 of 9

Site ID:

B7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

	11								
								THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE	5.0
5.5		THE CANCELLAND AND CONTROL OF THE PROPERTY OF			The state of the s	Monitoring	Monitoring		Monitorin Complian Y or N?
Item	Type of	Emission Limit	FE1	Future Effective		Requirements	Frequency ²		11 0 0
₹	Limit	Citation	Y/N?	Date	Emission Limits	Citation	(P/C/N)	Monitoring Type	žΰ×
		BAAQMD Condition				BAAQMD Condition		CEM data and	
11	NOx	23181, part 2a	L Y		30.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
		BAAQMD Condition				BAAQMD Condition		CEM and	
12	SO2	23181, part 2b	Y		5.0 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
		1						Annual source test	
		BAAQMD Condition				BAAQMD Condition		at S2 and	l I
13	PM10	23181, part 2c	Y		13.8 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
								CO CEM, annual	
		BAAQMD Condition		ļ		BAAQMD Condition		source tests, and	
14	co	23181, part 2e	Y_		46.2 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
		BAAQMD Condition				BAAQMD Condition		Annual source tests,	
		23181, part 2f	ΙY	İ	0.43 tons per year for S1, S2, and S3	23181, part 4	P/A	and calculations	Y
Sou	ırce: S2 - Hy	drogen Plant Furnace		The second secon	The second control of the control of	1 Amount 1 Column	A CONTRACTOR OF THE PARTY OF TH	A ST I LEADY A COMMITTEE OF THE ST I LEADY A COMMITTEE OF THE ST I LEADY AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE AND A COMMITTEE OF THE ST IN LINE A	
								Fuel meters, fuel	
1		BAAQMD Condition				BAAQMD Condition		analyzers, and	
1	Heat input	23179, part 2	Υ		9,636,000 MMbtu (HHV) in any 12 months	23179, part 20	С	records	Y
								Fuel meters, fuel	
		BAAQMD Condition				BAAQMD Condition		analyzers, and	
2	Heat input	23179, part 3	Y		1,072 MMbtu (HHV) during any clock hour	23179, part 20	С	records	Y
		-	1		5 ppmv @ 3% O2 on a clock hour basis		1		
İ		BAAQMD Condition			except during startup, shutdown, or drying of	BAAQMD Condition			
3	NOx	23179, part 5a	Υ		refractory	23179, part 13		CEM	Y
		BAAQMD Condition			7.5 lb/clock hour except during startup,	BAAQMD Condition			
4	NOx	23179, part 7a.1	Y		shutdown, or drying of refractory	23179, part 13	С	CEM	Y
		BAAQMD Condition				BAAQMD Condition	l _	l	l ,
5		23179, part 7b	Y		50 lb per clock hour	23179, part 13	С	CEM	Y
		BAAQMD Condition				BAAQMD Condition	l _	l	
6	NOx	23179, part 10a	Υ		28.1 tons per any consecutive 12 months	23179, part 13	С	CEM	Υ
		BAAQMD Condition				BAAQMD Condition	I	CEM data and	,
7	NOx	23181, part 2a	Υ		30.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
					40 ppmv, dry, @ 0% O2 on a 24-hr rolling				l
8	NOx	40 CFR 60.102a(g)(2)	Y		average basis	40 CFR 60.107a(c)	C	CEM	N
					10 ppmv @ 3% O2 on a clock hour basis		1		
		BAAQMD Condition			except during startup, shutdown, or drying of	BAAQMD Condition	_	1	ا ر
9	co	23179, part 5b			refractory	23179, part 19b		CEM	Y

Site ID:

B7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

							Monitoring		P=0
		The state of the s			Comparison Com	Monitoring		TO A LANGE TO THE PARTY OF THE	Monitoring Compliand Y or N2
Te T	1.9 P	Emission Limit		Future Effective	Parties of the control of the contro	Requirements	Frequency	Ad an ideal and Town	8 8 5
=		Citation	Y/N?-		Emission Limits	Citation	(P/C/N)	Monitoring Type	₹ 0 ≻
	1	BAAQMD Condition			9.1 lb/clock hour except during startup,	BAAQMD Condition		0=11	,
10		23179, part 7a.2	Υ			23179, part 19b	C	CEM	Y
		BAAQMD Condition				BAAQMD Condition		СЕМ	,
11	co	23179, part 10b	Υ		34.2 tons per any consecutive 12 months	23179, part 19b	С	CO CEM, annual	T
						BAAQMD Condition	İ	source tests, and	
1		BAAQMD Condition	١			23181, part 4	P/A	calculations	_Y
12	CO	23181, part 2e	ΥΥ		46.2 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	l
		544645 G			0.0012 lb/MMbtu on a clock hour basis except	BAAQMD Condition			
1	1	BAAQMD Condition	Y		during startup, shutdown, or drying of refractory	23179, part 17	P/A	Source test	_Y
13		23179, part 5e BAAQMD Condition	- Y			BAAOMD Condition	11/0	Source test	
1		23179, part 7a.5	Y		shutdown, or drying of refractory	23179, part 17	P/A	Source test	Y
14		BAAQMD Condition	'		Shudown, or drying or remactory	BAAQMD Condition	-177	Octarios tost	,
15	1	23179, part 10	Е		5.0 tons per any consecutive 12 months	23179, part 17	P/A	Source test	Y
113	302	23179, part 10	-		3.0 tons per any consecutive 12 months	20175, part 11		Sulfur monitoring or	-
1		BAAQMD Condition				BAAQMD Condition		CEM and	
16	SO2	23181, part 2b	Υ		5.0 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
10		20101, part 20	<u> </u>		20 ppmdy @ 0% O2 on a rolling 3 clock hour				
	-				basis; 8 ppmdv @ 0% O2 on a rolling 365				
17	SO2	40 CFR 60.102a(g) (1)	Y		calendar day basis	40 CFR 60.107a(a)(1)	С	CEM	N
H		BAAOMD Condition		-		BAAQMD Condition			
18		23179, part 9	Y		0.098 lb/clock hour	23179, part 17	P/A	Source test	Y
<u> </u>	<u> </u>	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	Sulfuric acid	BAAQMD Condition				BAAQMD Condition	<u> </u>	Annual source tests,	
19	mist	23179, part 12	Υ		860 lb per any consecutive 12 months	23179, part 17	P/A	and calculations	Y
							i		
	Sulfuric acid	BAAQMD Condition				BAAQMD Condition	1	Annual source tests,	l
20	mist	23181, part 2f	Υ		0.43 tons per year for S1, S2, and S3	23181, part 4	_P/A	and calculations	Y
\Box									
		BAAQMD Condition				BAAQMD Condition	l	Annual source tests	,
21	mist	23181, part 3	Y		2.35 lb/day for S1, S2, and S3	23181, part 4	P/A	and calculations	Υ
					0.0027 lb/MMbtu on a clock hour basis except				
		BAAQMD Condition	l		during startup, shutdown, or drying of	BAAQMD Condition	J 5/4	Sauras tast	_Y
22		23179, part 5c	Y		refractory	23179, part 17	P/A	Source test	T -
	1	BAAQMD Condition	١		3.5 lb/clock hour except during startup,	BAAQMD Condition	P/A	Course toot	Y
23	POC	23179, part 7a.3	Υ		shutdown, or drying of refractory	23179, part 17	I P/A	Source test	

Air Łiquide Łarge Industries US LP - Rodeo Hydrogen Plant

Page 3 of 9

Site ID:

B7419

Address:

1391 San Pablo Avenue Rodeo, CA 94572

Date:

Period:

September 30, 2013 March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

						The second secon		The second secon	- 6 ° -
70.75					Control of the Cont	Monitoring -	Monitoring		Monitoring Compliance Y or N?
tem	Type of	Emission Limit	FE1	Future Effective		Requirements	Frequency ²	情感性 经输出 強	\$ 6 Z
<u>₽</u>	Limit	Citation	Y/N?	Date	Emission Limits	Citation	(P/C/N)	Monitoring Type	£ 8 ×
						BAAQMD Condition			
ľ	1	BAAQMD Condition				23179, part 17 and			l
24	POC	23179, part 10c	Y		11.5 tons per any consecutive 12 months	28181, part B.4.f	P/A	Source test	Y
						"			
								Annual source tests,	
		BAAQMD Condition				BAAQMD Condition		inspection data, and	l
25	POC	23181, part 2d	Y		13.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
		BAAQMD Condition				BAAQMD Condition			
26	NH3	23179, parts 6 and 21	N		10 ppmv @ 3% O2, 1-hr average	23179, part 17a	P/A	Source test	Υ
								Monitoring of	
						BAAQMD Condition		ammonia injection	ĺ
27	NH3	N/A	N		None	23179, part 22	С	rates	Y
		BAAQMD Condition				BAAQMD Condition			
28	NH3	23179, part 8	N		6.5 lb/clock hour	23179, part 17a	P/A	Source test	Υ
								Annual or quarterly	
		BAAQMD Condition				BAAQMD Condition	P/A or 4 times	source tests and	
29	NH3	23179, part 11	N		48,200 lb per any consecutive 12 months	23179, part 23	per year	calculations	Y
								Ammonia injection	
		BAAQMD Condition	l			BAAQMD Condition		and heat input	İ
30	NH3	23181, part 2g	N		26.9 tons per year for S1, S2, and S3	23181, part 4	P/A	monitoring	Y
31	O2		Υ		No limit	BAAQMD 1-520.1	С	O2 Monitor	Υ
					Ringelmann 1 for no more than 3 minutes in				
32	Opacity	BAAQMD 6-1-301	N		any hour	None	N	None	Y
		-			Ringelmann 1 for no more than 3 minutes in				
33	Opacity	SIP 6-301	Υ		any hour	None	N	None	Υ
34	FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	None	Y
35	FP	SIP 6-305	Υ		Prohibition of nuisance	None	N	None	Υ
						None for gaseous fired			
36	FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	sources	N .	None	Y
						None for gaseous fired			
37	FP	SIP 6-310.3	Υ		0.15 grain/dscf @ 6% O2	sources	N	None	Y
					0.037 lb/MMbtu on a clock hour basis except				
		BAAQMD Condition			during startup, shutdown, or drying of	BAAQMD Condition			
38		23179, part 5d			refractory	23179, part 17	P/A	Source test	Y
		BAAQMD Condition			4.8 lb/clock hour except during startup,	BAAQMD Condition			
39	PM10	23179, part 7a.4	Υ		shutdown, or drying of refractory	23179, part 17	P/A	Source test	Y

Air Liquide Large Industries US LP - Rodeo Hydrogen Plant

Page 4 of 9

Site ID:

B7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

27		The second secon			Annual Property of the Control of th	Monitoring	Monitoring		Monitoring Compliance Y or N7
Ë	Type of	Emission Limit	FE'	Future Effective	The second secon	Requirements	Frequency2		a a z
tem	Limit	Citation		Date _	Emission Limits	Citation	(P/C/N)	Monitoring Type	, 0 ×
=-		Olladon	12111			BAAOMD Condition		<u> </u>	
		BAAOMD Condition				23179, part 17, and part		Source test and	1
40	PM10	23179, part 10d	Υ		13.8 tons per any consecutive 12 months	28181, part B.4.f	P/A	calculations	Y
40	FINITO	23179, part 100	- '-		13.0 tons per any consecutive 12 months	Editor, part E. v.		Annual source test	<u> </u>
ŀ		BAAQMD Condition				BAAQMD Condition		at S2 and	1
144	PM10	23181, part 2c	Υ		13.8 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	l y
		drogen Plant Flare			13.8 tons per year for 31, 32, and 33	120101, part 4		Carolianono	
300	rce: 33 - ny	urogen: Flanti Flare:			Ringelmann 1 for no more than 3 minutes in	BAAQMD Condition		Visible emissions	I
		BAAGUB 6 4 304			, ▼	23180, parts 8-10	P/E	monitoring	l y
1	Opacity	BAAQMD 6-1-301	N_		any hour Ringelmann 1 for no more than 3 minutes in	BAAQMD Condition	F/E	Visible emissions	
_	l	0.00	١.,			23180, parts 8-10	P/E	monitoring	Y
2	Opacity	SIP 6-301	Y		any hour Prohibition of nuisance	None	N N	None	
3	FP	BAAQMD 6-1-305	N.			None	N	None	'
4_	FP	SIP 6-305	Y_		Prohibition of nuisance	None for gaseous fired	114	None	
l_	l		١				N	None	l v
5	FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	sources	IN	None	-
	i				L	None for gaseous fired			V
6	FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	sources	N	None	
			1			60.100a(3)(iii)			1
						Exemption from			AVA Danidatani
						monitoring for gas			N/A - Regulatory
						streams from hydrogen		l	references not
7	SO2	60.100a(g)(1)	Υ		(Standard stayed until further notice)	plants	N _	None	valid
		BAAQMD Condition	l			BAAQMD Condition		Flow data and	1
8	NOx	23180, part 4a	Y		2.8 tons per any consecutive 12 months	23180, part 5	P/M	calculations	Y
		BAAQMD Condition				BAAQMD Condition		Flow data and	1
9	NOx	23180, part 4c	Y		129 lb per any consecutive 60 minutes	23180, part 5	P/M	calculations	Y
"		BAAQMD Condition				BAAQMD Condition		CEM data and	l .,
10	NOx	23181, part 2a	Υ		30.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
			l					Annual source tests,	
		BAAQMD Condition				BAAQMD Condition		inspection data, and	l
11	POC	23181, part 2d	Y		13.9 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
								Annual source test	
		BAAQMD Condition	l			BAAQMD Condition		at S2 and	
12	PM10	23181, part 2c	ΙΥ		13.8 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y

Air Liquide Large Industries US LP - Rodeo Hydrogen Plant

Page 5 of 9

Site ID:

Address:

1391 San Pablo Avenue Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

-		The second secon							
200						Monitoring	Monitoring		Monitoring Compliano Y or N?
tem		Emission Limit		Future Effective		Requirements	Frequency ²	30 - 1	1 6 7 N
활	Limit	Citation	Y/N?	Date	Emission Limits	Citation	(P/C/N)	Monitoring Type	° S >
		BAAQMD Condition				BAAQMD Condition		Flow data and	
13	co	23180, part 4b	Υ		12.1 tons per any consecutive 12 months	23180, part 5	P/M	calculations	. Y
					-			CO CEM, annual	-
1		BAAQMD Condition				BAAQMD Condition		source tests, and	
14	co	23181, part 2e	Υ		46.2 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
								Sulfur monitoring or	
1		BAAQMD Condition				BAAQMD Condition		CEM and	
15	SO2	23181, part 2b	Y		5.0 tons per year for S1, S2, and S3	23181, part 4	P/A	calculations	Y
1	Sulfuric acid	BAAQMD Condition				BAAQMD Condition		annual source tests,	
16	mist	23181, part 2F	Y		0.43 tons per year for S1, S2, and S3	23181, part 4	P/A	and calculations	Y
		-1			No visible emissions except for 5 min in any				
17	VE	40 CFR 60.18(c)(1)	Y		two hours	40 CFR 60.18(f)(1)	₽/E	Method 22	_Y
	Presence of	1_//						Thermocouple or	
18	flame	40 CFR 60.18(c)(2)	Y		Flame present at all times	40 CFR 60.18(f)(2)	С	equivalent device	Y
19	Velocity and heat content requirements	40 CFR 60.18(c)(3) (i) OR 40 CFR 60.18(c)(3) (ii) & (c)(4)(i) OR 40 CFR 60.18(c)(3) (ii) & (c)(4)(ii)			1) If hydrogen content is equal to or greater than 8% by volume, velocity must be less than 122 ft/sec and less than Vmax, OR; 2) Net heating value of gas greater than 300 btu/scf and less than 1000 btu/scf and velocity less than 60 ft/sec; OR 3) Net heating value of gas greater than 1000 btu/scf and velocity greater than 60 ft/sec and less than 400 ft/sec	40 CFR 60.18(f)(3), (4). and 5	С	Volume measurements gas analysis	Y
So	urce: S4 - Co	oling Tower		Control of the Contro		A Company of the Comp	Constitution of the consti	The second secon	
\Box		BAAQMD Regulation 6-1			Ringelmann No. 1 for no more than 3				
1		301	N			None	N .	None	Y
	1 ' '				Ringelmann 1 for no more than 3 minutes in	·			
2	Opacity	SIP 6-301	Y			None	N	None	Y
3	- F	BAAQMD 6-1-310	N			None	N	None	Υ
4		SIP 6-310	Y			None	N	None	Y
5		BAAQMD 6-1-311	N			None	N	None	Y

Site ID:

B7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

==								THE PARTY OF THE PARTY OF THE PARTY OF	114 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
الألاث		The second secon			The second secon	Comments of the comments of th		The part of the pa	စ္မွာ စို
i 1	1. 1.					Monitoring	Monitoring		Montoring Compliance Y or N?
Item		Emission Limit	1 2	Future Effective		Requirements	Frequency ²		1 1 2
윤	Limit	Citation	Y/N?	Date	Emission Limits	Citation	" (P/C/N)	Monitoring Type	≅ ບິ≻ັ
\Box					4.10P0.67 lb/hr, where P is process weight,				
6	FP	SIP 6-311	Y		ton/hr	None	N	None	Y
П		BAAQMD Condition				BAAQMD Condition		Analysis total	
7	РМ	23414, part 2	Υ_		Dissolved solids < 3000 ppm	23414, part 6	P/M	dissolved solids	Y
\sqcap	Organic				300 ppm as carbon and 15 lb organic	BAAQMD Condition			
8	compounds	BAAQMD 8-2-301	Y		compounds/day	23414, part 3	P/D	Visual inspection	ΥΥ
\Box	Organic				300 ppm as carbon and 15 lb organic	BAAQMD Condition	P/3 times per	Analysis of chlorine	
9	compounds	BAAQMD 8-2-301	Υ		compounds/day	23414, part 4	week	content	Y
	Organic				300 ppm as carbon and 15 lb organic	BAAQMD Condition		Analysis of VOC	
10	compounds	BAAQMD 8-2-301	Υ		compounds/day	23414, part 4	_P/M	content	Υ
\Box							P/W, after		
. 1							indication of		
1 1	Organic				300 ppm as carbon and 15 lb organic	BAAQMD Condition	hydrocarbon	Estimate of daily	
11	compounds	BAAQMD 8-2-301	Υ		compounds/day	23414, part 8	leak	VOC loss	Y
\Box		-				BAAQMD Condition		Records of NaOCI	
12	Chloroform				None	23414, part 5	P/M	usage	Y
Sou	rce: Compo	nents	1,000	ABOUT TO THE RESIDENCE OF THE PARTY OF THE P	A STATE OF THE PARTY OF THE PAR	Approximate the second		Control of the contro	3 - 1 - 1 - 1 - 1
1		BAAQMD 8-18-301	Υ		General equipment leak < 100 ppm	BAAQMD 8-18-401.2	P/Q	Inspection	Y
2	POC	BAAQMD 8-18-302	Y	T	Valve leak < 100 ppm	BAAQMD 8-18-401.2	P/Q	Inspection	Y
	POC	BAAQMD 8-18-303	Υ		Pump and compressor leak < 500 ppm	BAAQMD 8-18-401.2	P/Q	Inspection	Y
\vdash						BAAQMD 8-18-401.2e &	·		
i	ŀ					BAAQMD Condition			
i4	POC	BAAQMD 8-18-304	Y		Connection leak < 100 ppm	23178, part 18	P/Q	Inspection	Y
	POC	BAAQMD 8-18-305	Y		Pressure relief valve leak < 500 ppm	BAAQMD 8-18-401.2	P/Q	Inspection	Υ
					Valve, pressure relief, pump or compressor				
. 1					must be repaired within 5 years or at the next				
6	POC	BAAQMD 8-18-306.1	Υ		scheduled turnaround	BAAQMD 8-18-502.4	P/quarterly	Report	Y
\sqcap					Awaiting repair Valves: < 0.5% Pressure		P/within 24		
7	POC	BAAQMD 8-18-306.2	Υ		Relief < 1% Pump and Connector < 1%	BAAQMD 8-18-401.5	hours	Inspection	. Y
\vdash									
, I			l		Mass emissions & non-repairable equipment				
اا					allowed: Valve < 0.1 lb/day & <1.0%;				
i 1	ŀ		1		Pressure Relief < 0.2 lb/day & < 5%; and				
	POC	BAAQMD 8-18-306.3.2	l v		Pump and Connector < 0.2 lb/day & < 5%	BAAQMD 8-18-401.3	P/D	Inspection	Y

Air I	iguide l	arna	Industrias	1121	P - Pc	den F	-lydrogen I	Plant

Site ID:

B7419

Address:

1391 San Pablo Avenue

Rodeo, CA 94572

Date:

September 30, 2013

Period:

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

Item	Type of Limit	Emission Limit Citation		Future Effective Date	Emission Limits	Monitoring Requirements Citation	Monitoring Frequency ² (P/C/N)	Monitoring Type	Monitoring	Y or N?
9	POC	BAAQMD 8-18-306.3.3	Y		repaired maker auge	BAAQMD 8-18-502.4	P/Q	Sampling or equivalent	Y	
10	POC -	BAAQMD 8-28-303	Y		Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency or Meet Prevention Measures Procedures	BAAQMD 8-28-405	P/turn-around	None	Y	,
					PHA within 90 days and meet Prevention Measures Procedures. After 2nd release Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control	D4 4 O 4 D 0 0 0 4 D 5	P/release per 5 calendar	Name		,
11	POC	BAAQMD 8-28-304	Υ		efficiency.	BAAQMD 8-28-405	year	None	<u> </u>	
12	POC	40 CFR 60 Subpart VVa 60.482-2a (b)(1)	Y		Pump leak less than 2,000 ppm	40 CFR 60.482-2a (a)(1)	P/M	Measure for leaks	Y	
13	POC	40 CFR 60 Subpart VVa - 60.482-2a (b)(2)	Y		Pump leak Indicated by dripping liquid	40 CFR 60.482-2a (a)(2)	P/W_	Visual Inspection	Y	,
14	POC	40 CFR 60 Subpart VVa 60.482-2a (e)	Y		Designated "No detectable emissions" less than 500 ppm	40 CFR 60.482-2(e)(3)	P/A_	Measure for leaks	Y	
15	POC	40 CFR 60 Subpart VVa 60.482-3a (f)	Y		Leak is failure of seal or barrier system	40 CFR 60.482-3a(d)-(f)	С	Sensor for detection of seal or barrier system failure	Υ	,
		40 CFR 60 Subpart VVa				40 CFR 60.482-7a (a)(1)	P/M unless 2 successive months w/o leak	Measure for leaks	Y	,
16	POC	60.482-7a (b)	Y		Valve leak > 500 ppm	40 CFR 60.462-78 (8)(1)	P/Q unless leak found.	INICASUIC IOI ICANS		
17	POC	40 CFR 60 Subpart VVa - 60.482-7a	Y		Valve leak < 500 ppm; 2 successive months w/o leaking	40 CFR 60.482-7(c)	then monthly	Measure for leaks	Y	,
		40 CFR 60 Subpart VVa - 60.482-7(f)	Y	_	Designated "No detectable emissions" < 500 ppm	40 CFR 60.482-7 (f)(3)	P/A	Measure for leaks	Y	

Page 8 of 9

Site ID:

B7419

Address:

1391 San Pablo Avenue Rodeo, CA 94572

Date: Period: September 30, 2013

March 1, 2013 to August 31, 2013

During the reporting period specifed above, all required monitoring of the applicable limits as listed in Section VII of the Title V Major Facility Review Permit was conducted, except where indicated below. If a "No" is indicated in the column "Monitoring Compliance (Y or N)," see Attachment A for the deviation details.

			-17-						
Item	Type of Limit	Emission Limit Citation		Future Effective Date	Emission Limits	Monitoring Requirements Citation	Monitoring Frequency ² (P/C/N)	Monitoring Type	Monitoring Compliance Y or N?
		40 CFR 60 Subpart VVa			Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured		D/5	Visible, Audible, or	v
19	POC	60.482- 8a(a)	<u>Y</u>		for leak in 5 days if detected by inspection	40 CFR 60.482-8a(a)	P/E	olfactory Inspection	¥
20	POC	40 CFR 60 Subpart VVa - 60.482- 8a(b)	Υ		Pressure Relief devices (liquid), Flanges, Connectors leak > 10,000 ppm	40 CFR 60.482-8a(a)	P/E	Measure for leaks	Υ
21	POC	BAAQMD Condition 23178, part 6	Υ		Fugitive emissions of POC from hydrogen plant components < 3,000 lb/yr	BAAQMD Condition 23178, part 18	P/Q	Method 21 and calculations	Υ
22	тос	BAAQMD Condition 23178, part 11b	Y		< 100 ppm of TOC (measured as C1) at valves	BAAQMD Condition 23178, part 17	P/Q	Method 21	Υ
23	тос	BAAQMD Condition 23178, part 15	Υ	l .	< 100 ppm of TOC (measured as C1) at pumps and compressors	BAAQMD Condition 23178, part 17	P/Q	Method 21	Y

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete. Jared Wittry Plant Manager Print Name

Air Liquide Large Industries US LP - Rodeo Hydrogen Plant

Page 9 of 9

Monitoring Frequency: P = Periodic; C = Continuous: N = None. Under Periodic, A = Annual; Q = Quarterly; M = Monthly; W = Weekly; D = Daily; H = Hourly; E = Per Event

Monitoring Compliance: Y = All required monitoring of the applicable limit was conducted: N = Not all required monitoring of the applicable limit was conducted. See noted deviation in Attachment A for details.