PETITION FOR VARIANCE BEFORE THE HEARING BOARD OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

IV	12/14/22
RV	12/28/22

ETITIONER: Walnut Creek Energy, LLC	CASE NO: 6230-1
	FACILITY ID:_146536
ACILITY ADDRESS: 911 Bixby Dr location of equipment/site of violation; specify busine	ss/corporate address, if different, under Item 2, below
city, State, Zip: City of Industry, CA, 91745	· · · · · · · · · · · · · · · · · · ·
selecting)	ne box may be checked; see Attachment A, Item 1, before BEMERGENCY BEX PARTE EMERGENCY
<u>CONTACT</u> : Name, title, company (if different to authorized to receive notices regarding this Petition	han Petitioner), address, and phone number of persons n (no more than two authorized persons).
Greg Wolffe	George Piantka
Principal Scientist, Yorke Engineering, LLC	Senior Director, NRG
31726 Rancho Viejo Rd, Suite 218	4600 Carlsbad Blvd
San Juan Capistrano, CA Zip 92675	Carlsbad, CA Zip 92008
☎ (909) 861-2729	☎ (760) 707-6833 Ext.
Fax ()	Fax_()
E-mail_ GWolffe@YorkeEngr.com	E-mailGeorge,Piantka@nrg.com
3. RECLAIM Permit 🛛 Yes 🔲 No	Title V Permit ⊠ Yes ☐ No
Persons with disabilities may request this a the Clerk of the Board at 909-396-2500 or	locument in an alternative format by contacting by e-mail at clerkofboard@aamd.gov.

[ALL DOCUMENTS FILED WITH CLERK'S OFFICE BECOME PUBLIC RECORD]

4. GOOD CAUSE: Explain why your petition was not filed in sufficient time to issue the required public notice. (Required only for Emergency and Interim Variances; see Attachment A, Item 4)

Walnut Creek Energy LLC (Facility ID 146536) holds an active Title V facility permit and is a RECLAIM facility for emissions of NOx and SOx.

On September 25, 2022, Unit 2 (Device D7, Application No: 636709, Permit No: G70321) at Walnut Creek Energy Park (WCEP), a GE LMS100 simple cycle gas turbine, experienced damage to the SuperCore and Power Turbine that will require repair. After investigations by Walnut Creek Energy and General Electric (GE, equipment manufacturer), it has been determined that Unit 2 will not be repaired and tested to confirm commercial availability by December 31, 2022. Therefore, Walnut Creek is seeking permit relief of Condition D29.3 for Unit 2 (device D7), which requires that testing be completed every three years, with the current testing due no later than December 31, 2022.

Walnut Creek Energy has diligently sought options with GE to expedite the turbine repairs to return to service this valuable electricity generation unit, which would enable source testing to be completed by December 31, 2022. These options have included renting identical replacement turbine parts (specifically a SuperCore and/or a Power Turbine), but as of November 14, GE has not found a path that would guarantee the repairs to the Unit 2 turbine (or renting identical parts) so that it can be returned to service and tested in 2022.

An Interim Variance is needed for immediate coverage ahead of January 1, 2023, when Unit 2 will be in violation of Condition D29.3. An Interim Variance is sought out of an abundance of caution if the Regular Variance public notification and hearing could not completed/scheduled before December 31, 2022, in particular due to the holiday season. The variance process was not sought sooner since it was not certain until now that Unit 2 would be in violation of Condition D29.2 due to the inability to repair Unit 2 turbine or obtain/install rental parts in time to complete source testing by December 31, 2022.

5. Briefly describe the type of business and processes at your facility.

Walnut Creek Energy is a 500-megawatt natural gas-fired, simple cycle electrical generating facility, designed to quickly meet electric generation demand in California.

6. List the equipment and/or activity(s) that are the subject of this petition (see Attachment A, Item 6, Example #1). Attach copies of the Permit(s) to Construct and/or Permit(s) to Operate for the subject equipment. For RECLAIM or Title V facilities, attach only the relevant sections of the Facility Permit showing the equipment or process and conditions that are subject to this petition. You must bring the entire Facility Permit to the hearing.

The Unit 2 gas turbine is one of five units at the facility that is the surrounding area via the California Independent System Celectrical power as required by existing contracts. In the unit 2 gas turbine is one of five units at the facility that is the surrounding area via the California Independent System Celectrical power as required by existing contracts. In the unit 2 gas turbine is one of five units at the facility that is the surrounding area via the California Independent System Celectrical power as required by existing contracts.	626700	A production	Application/Plan Denied (if relevant)
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initial inspection revealed more substantial damage that nece	e identical m	odel 878 as cu	urrently installed, bu
Pokerefield CA and Houston TV	ssitated offs	ite inspection :	at GE locations in
Bakersfield, CA and Houston, TX.			

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7.

8.

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

	explain how you are or will be in v	violation of each rule or condition (see Attachment A, Item 9, Example #2).
	Rule	Explanation
	Permit Condition # D29.3 of Facility Permit 146536 (Rev. 6), applicable to Device D7	Condition D29.3 requires that a source test be conducted at least once every three years. This required triennial source test, due 12/31/2022, cannot be conducted for Unit 2 (device D7) until the necessary repairs are completed and
	[SCAQMD rule reference: 1303(b)(2) & 1703(a)(2)]	the unit has been cleared for operational dispatch by CAISO. Unit 2 repairs are expected to be completed in 2023.
		1.
	Are the equipment or activities su	ubject to this request currently under variance coverage? Yes \(\subseteq \) No \(\subseteq \)
	Case No. Date of	Action Final Compliance Explanation
	-	
		vities at this location currently (or within the last six months) under variance
	Case No. Date of	Action Final Compliance Explanation
		of Violation or Notice(s) to Comply concerning this equipment or activity within the
	If yes, you must attach a copy of	f each notice.
		nts from the public regarding the operation of the subject equipment or activity Yes No No
	If yes, you should be prepared to	o present details at the hearing.
	Explain why it is beyond your rea specific event(s) and date(s) of o	asonable control to comply with the rule(s) and/or permit condition(s). Provide occurrence(s), if applicable.
V	MAY ATTACH ADDITIONAL PAGES IF NEC	CESSARY] PAGE 4 OF 12

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- On September 14, 2022, Walnut Creek Energy sent an email notification to the SCAQMD of the source testing schedule at the facility to satisfy permit condition D29.3 for triennial testing for SOx, VOC, and PM10. The testing for Unit 2 was scheduled for November 17, 2022.
- On September 25, 2022, the turbine blades in Unit 2 became dislodged, causing significant internal damage to the turbine. The unit was immediately shut down with no emissions exceedances.
- During the week of September 25, 2022, a preliminary damage assessment was completed by plant
 operations and the turbine manufacturer (GE). Damage was found in the SuperCore for which a
 spare SuperCore has been available for immediate replacement. The initially damage was thought to
 have been isolated to the SuperCore. After removal of the SuperCore, further damage was observed
 which included damage to the Power Turbine, which is uncommon with these turbines. Walnut Creek
 does not have a spare Power Turbine, but GE is looking for a spare Power Turbine.
- By the second week of October 2022, the Power Turbine was removed and driven to Houston, Texas
 for an assessment by GE. Due to excess backlog at GE's Houston facility, GE has not yet completed
 the assessment of the Power Turbine, which was initially projected to be completed by midNovember 2022.
- As of November 14, 2022, GE expects the assessment of the Power Turbine will not be completed
 until December 28, which forecloses any potential for timely repair of the Power Turbine ahead of the
 December 31, 2022 deadline to source test Unit 2. Furthermore, GE has not identified an identical
 replacement Power Turbine that could be timely inspected, installed and operation tested ahead of
 the December 31, 2022 deadline for source testing.
- Walnut Creek and GE have concluded that repair of Unit 2 SuperCore and Power Turbine that sustained damage at the end of September will not be completed until sometime in 2023 and identical replacement of the Power Turbine may or may not be available sometime in 2023. Nonetheless, repair, operation testing and subsequent source testing cannot be completed ahead of the December 31, 2022 deadline to complete Unit 2 source testing. Given the uncertainty on timing of the remedies, Walnut Creek must seek a Regular Variance. An Interim Variance is necessary due to the uncertainty on completion of the public notification process and completion of a Regular Variance in December, in particular during the holiday season.
- 15. When and how did you first become aware that you would not be in compliance with the rule(s) and/or permit condition(s)? Provide specific event(s) and date(s) of occurrence(s).
 - On November 8, 2022, GE confirmed that its assessment of the Power Turbine would not be completed until December 28, 2022, which foreclosed the potential for repair, installation, operation test, and source testing Unit 2 by December 31, 2022.
 - On November 14, 2022, Walnut Creek and GE confirmed that an identical replacement rental Power Turbine is not available foreclosing the potential for replacement, operating test and source testing Unit 2 by December 31, 2022.
 - Repair and operation testing of Unit 2 as well as follow up inspection of repaired equipment are all
 necessary before source testing can be scheduled, which includes scheduling the specific generation
 loads/test parameters with CAISO and scheduling the testing company.
 - Walnut Creek Energy and GE have now concluded that timely source testing by December 31, 2022
 is not possible. Walnut Creek cannot accurately estimate when Unit 2 will first become available for
 scheduling source testing (generation loads and testing company); hence the Regular Variance
 timeline (up to 1 year) is necessary.

	On October 20, Walnut Creek Energy contacted the SCAQMD seeking guidance on how to exter
•	the timeframe for testing Unit 2 due to the extended outage for repair. On October 25, SCAQMD replied by email that a variance request would be needed to delay test On November 10, Yorke Engineering contacted SCAQMD on behalf of Walnut Creek Energy to
	inquire when a variance would need to be filed to receive a hearing before the end of 2023. Repairs are expected to be completed in 2023.
	Once complete, the unit will undergo operational testing to receive clearance from CAISO to retu service in 2023.
•	Once Unit 2 is cleared to return to service, Walnut Creek can then work with CAISO to schedule specific operating loads/duration and in parallel work with the testing company to schedule the te equipment. These scheduling steps can take months to execute.
•	Source testing as required by permit condition D29.3 is expected to be completed by May 31, 20 per terms of a Regular Variance, if approved. A Short Variance will not provide ample time to complete the above action to come into compliance with Condition D29.3. Walnut Creek recognize that a Regular Variance can be granted up to 1-year or December 31, 2023. At this time, Walnut Creek believes that the return to service and completion of source testing can be accomplished by May 31, 2023.
	uld be the harm to your business during and/or after the period of the variance if the variance wer
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PAGE 6 OF 12

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

testing before the end of 2022. Therefore, a 2023. The unit will not resume normal operacleared by CAISO.		eeded to allow for tes	ting to be delayed
		_	
Estimate excess emissions, if any, on a daily total opacity above 20% during the variance pounds. "N/A" here and skip to No. 20.	pasis, including, if appli eriod). If the variance	icable, excess opacity will result in no exces	/ (the percentage of semissions, inser
Pollutant	Total Estimated Excess Emissions (lbs/day)	(B) Reduction Due to Mitigation	Net Emissions A Mitigation (lbs/da
N/A	E(IDS/Gdy) - Chill A set of Header	E(lus/day)amas, ee aaro	
	L		
* Column A minus Column B = Column C Excess Opacity: %			
Excess Opacity: % Show calculations used to estimate quantities	in No. 19, or explain w	hy there will be no ex	- Kcess
	will operate in complia	ance with its emission s. The repairs are not	s requirements ba

	Unit 2 CEMS will operate to monitor emissions once the turbine is repaired and operational. Source testing will be scheduled as soon as practicable to come into compliance with permit condition D29.3.
22.	How do you plan to monitor or quantify emission levels from the equipment or activity(s) during the variance period, and to make such records available to the District? Any proposed monitoring does not relieve RECLAIM facilities from applicable missing data requirements.
	Unit 2 CEMS will monitor its emissions once the unit is repaired and operational.
23.	How do you intend to achieve compliance with the rule(s) and/or permit condition(s)? Include a detailed description of any equipment to be installed, modifications or process changes to be made, permit conditions to be amended, etc., dates by which the actions will be completed, and an estimate of total costs.
	 Turbine blades and other portions of the turbine damaged in the failure will be replaced. Unit 2 will undergo of operational testing to clear it for service. Source testing will be scheduled as soon as practicable after the unit is cleared for service. Walnut Creek anticipates source testing to be completed by May 31, 2023, to come into compliance with permit condition D29.3. Walnut Creek recognizes that a Regular Variance, if approved, can be granted up to 1 year or December 31, 2023.
24.	State the date you are requesting the variance to begin:January 1, 2023; and the date by which you expect to achieve final compliance: May 31, 2023
	If the regular variance is to extend beyond one year, you must include a Schedule of Increments of Progress, specifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definition of Increments of Progress (see Attachment A, Item 24, Example #3).
	List Increments of Progress here:
	N/A

 List the names of any Divariance petition or any 	istrict personnel with whom related Notice of Violation o	r Notice to Comply.		
Chris Perri		Ext	2696	
Christer Baluyot		Ext	3054	
Ryan Richards		Ext	2265	
Rosalinda Diaz	-	Ext	2815	
If the petition was comp Greg Wolffe Name	pleted by someone other that Yorke Eng Company	an the petitioner, please p		
The undersigned, unde therein set forth, is true	er penalty of perjury, states to and correct.	hat the above petition, inc	luding attachments and	the items
Executed on: Novemb	er 16, 2022	, at <u>San Clemente</u>	, Calif	fornia
	I Pearth			
Signature	<u> </u>	Print Name		
Title: Senior Director, I	Environmental			
	or tner or owner of the petition make the representations s		ized agent of the petitio	ener
If you selected 1a, a	above, skip item 2.			
2. The petitioner is				
•	at meets the following defin			
	ESS means a business whi ia, or if affiliated with anothe			
, ,	e number of employees is 1			
	e total gross annual receipts			
(III) the	e facility is a not-for-profit tra	aining center. -OR-		
b) \square an entity with	total gross annual receipts			
	the petitioner qualifies for reaccordance with Rule 303(h		f filing fees and excess	emission
	of perjury that the foregoing	•		
•		_		الماناد
xecuted on	, at			, Californ
	-			
YOU MAY ATTACH ADDITIONAL PA	GES IF NECESSARY		Page 9 of 1	2

Signature	Print Name	
Title	<u> </u>	
•	ATTACHMENT A	

ITEM 1

Type of Variance Requested:

- (a) SHORT: If compliance with District rule(s) can be achieved in <u>90 days or less</u>, request a short variance. (Hearing will be held approximately 21 days from date of filing--10-day posted notice required.)
- (b) REGULAR: If compliance with District rule(s) will take <u>more than 90 days</u>, request a regular variance. If the variance request will extend beyond one year, you <u>must</u> include a specific detailed schedule of increments of progress [see Page 8, No. 24] under which you will achieve final compliance. (Hearing will be held approximately 45 days from date of filing—30-day published notice required.)
- (c) EMERGENCY: If non-compliance is the result of an unforeseen emergency, such as a sudden equipment breakdown, power failure, or accidental fire, you may request an emergency variance. You may request an ex parte emergency variance in addition to an emergency variance. An emergency variance cannot be granted for more than 30 days. (Hearing will be held within 2 working days from the date of filing, whenever possible, excluding Mondays, weekends, and holidays.) If you request an emergency variance, you must answer No. 4 on page 1.
- (d) **EX PARTE EMERGENCY:** If variance coverage is required on a weekend or when the Board is not in session, and you cannot wait until an emergency variance hearing can be held, you may request an ex parte emergency variance. An ex parte emergency variance will be granted or denied solely on the information contained in the petition and the District's response to the petition. Under most circumstances, an ex parte emergency variance will remain in effect only until a hearing can be held. If you request an ex parte variance, you must answer No. 4 on page 1.
- (e) INTERIM: If you require immediate relief (other than for emergencies) to cover the time until a short or regular variance hearing can be held, request an interim variance. If you request an interim variance, you must also request a short or a regular variance on the same petition. (Hearing will be held approximately 2 working days from date of filing, whenever possible, excluding Mondays, weekends and holidays.) If you request an interim variance, you must answer No. 4 on page 1.

ITEM 4

GOOD CAUSE: The Hearing Board is required to provide public notice of variance hearings, as the public has a right to attend and testify at such hearings. In order for the Hearing Board to hold an Interim, Ex Parte Emergency or Emergency Variance hearing without the required public notice, a petitioner must present facts which will support a determination by the Board that "good cause" exists to hear a variance without notifying the public about the variance and providing the public with an opportunity to present evidence concerning the variance.

ITEM 6

Example #1:

Equipment/Activity	Application/ Permit No.	RECLAIM Device No.	Date Application/Plan Denied (if relevant)*-
Tenter frame		D32	-
Chrome-plating tank	M99999		
Bake oven	123456		
Create special effects (fog)	N/A	N/A	N/A

5 1 4 4	NUA	AI/A	12/10/95
Mfg., sale, distribution, use of non-compliant coating	N/A	l N/A	12/10/95
might only the state of the sta			

ITEM 9

- a) If you are requesting relief from Rule 401 and the excess opacity during the variance period will reach or exceed 40%, you should also request relief from California Health and Safety Code Section 41701.
- b) If you are requesting relief from a permit condition(s), you should also request relief from the rule requiring compliance with conditions of the permit: 202(a), (b) or (c) Temporary Permit to Operate; 203(b) Permit to Operate; 2004(f)(1) RECLAIM Permit; 3002(c) Title V Permit.

Example #2:

Rule	Explanation
404(a)	tenter frame is vented to damaged air pollution control equipment
2004 (f)(1) [Condition No. 28-2 of Facility P/O No. 099999]	source test cannot be conducted as required until new ESP is installed
1113(c)(2)	petitioner manufactures and sells clear wood finishes with VOCs in excess of 350 grams per liter
401(a) & California H&S Code Section 41701	Opacity will exceed 45%.

ITEM 24

Example #3:

Sample Schedule of Increments of Progress

- Permit application(s) will be submitted to the District by [date].
- Contracts for the purchase of emission control systems will be awarded by [date].
- On-site construction will be completed by [date].

				
(Petition for Variance: Revised February 22, 2011)				
		1		
[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]		PAGE 12 OF 12		

English	"If you require a language interpreter in order to participate in the hearing, contact
	the Clerk of the Board at least five (5) calendar days before your hearing at 909-396-
	2500 or by e-mail at <u>clerkofboard@aqmd.gov</u> . Specify the case name and number,
	hearing date, and the language for which you are requesting an interpreter." الكر براى شركت در جلمه استماع به مترجم نياز داريد, حد الكل بنج (5) روز تقويمي قبل از جلسه استماع , با منشى هينت توسط شماره ثلفن
Farsi	امر برای سرت در جمعه استعام به مرجم نیاز دارید, که این پذج (د) روز تعویمی بین از جمعه استعام , به مصلی مینت نوسط سماره نطق 909-396-396 یا بوسیله نامه الکترونیکی با نشاتی <u>clerkofboard@aqmd.gov</u> تمامن بگیرد. نام پرونده و شماره آن, تاریخ جلسه استماع و زبانی را که برای آن مترجم درخواست کرده اید, مشخص کنید"
Arabic	"إِذَا كُنتَ في حاجةً لمترجم من أَجل المشاركة في جلسة الاستماع، اتصل بكاتب المحكمة قبل موعد جلسة الاستماع بغمسة (5) أيام على هاتف
	. هند اسم ورقم القضية و تاريخ الاستماع واللغة £2500 <u>clerkofboard@aqmd.gov - 396- 909</u> او بالبريد الإلكتروني على التي تريد في مترجم لها."
Armenian	"Ունկնդրության մասնակցելու համար, եթե թարգմանչի կարիրն ունենար, նախրան ձեր ունկնդրությունը, ամենաբիչն հինգ (5) օրացույցային օրից առաջ կապվեր հանձնախմբի բարուսալուրի հետ, 909–396–2600 հեռախոսահամարով կամ ելեկտ՝ նամակով հետևյալ հասցետվ <u>clerkofboard@aqmd.gov</u> ։ Նջեր գործի անունն և համարն, ունկնդրության թվականը, և լեզուն, որի համար թարգմանիչ եր ցանկանում"
Vietname	"Nếu quý vị cần Thông Dịch Viên cho buổi điều trần, xin vui lòng điện-thoại cho Thư Ký Hội Đồng tại số
se	909-396-2500 trễ nhất là năm [5] ngày, không tính hai ngày Thứ Bảy và Chủ Nhật, trước buổi điều trần
	hoặc gửi điện thư đến <u>clerkofboard@aqmd.gov</u> . Nhớ ghi rõ tên và số hồ sơ, ngày điều trần, và
	ngôn ngữ quý vị cần có người để thông dịch."
Chinese	如果你要求翻譯來協助你參加聽證會,請在你的聽證會前至少提前五天(5個日曆日)打
	電話到909-396-2500或發電子郵件到 <u>clerkofboard@agmd.gov</u> 與局裏的辦事人員聯絡。
	並且明確説明你的案子的名稱和號碼,聽證日期,以及你要求的翻譯的語種。
Japanese	公聴会 (ヒアリング) に参加するために通訳が必要な場合、少なくとも5日前までに事務局 (Clerk of the Board) にご連絡ください。電話でのご連絡は 909-396-2500、ε-メールでのご連絡は <u>clerkofboard@aqmd.gov</u> . までお願いします。その際、案件名 (case name) と案件番号 (case number)、 ヒアリングの日付、通訳が必要な言語を特定して下さい。
Korean	"만약 귀하나 귀하의 증인들이 심리에 참여하기 위해 통역사가 필요하시면, 심리일 5일 전까지 기관부서의 서기에게 909-396-2500으로 연락하시거나, clerkofboard@aqmd.gov 로 연락 하십시오. 통역이 필요하신 사건의 이름, 심리날짜, 그리고 언어를 정확하게 말씀해
C : -1-	주십시오."
Spanish	Si usted requiere un intérprete para poder participar en la audiencia, favor de comunicarse con el Secretario de la Junta cuando menos cinco (5) días hábiles antes de su audiencia al teléfono (909) 396-2500 ó por correo electrónico al <u>clerkofboard@aqmd.gov</u> . Especifique el nombre y el número de su causa, la fecha de la audiencia y el idioma del cual está solicitando el intérprete.
Tagalog	"Kung kailangan ninyo nang interpreter sa Pilipino para makasali kayo sa pagdinig sa kaso, tumawag lang po kayo sa Clerk of the Board sa numero 909-396-2500 or kung hindi mag-email kayo sa email clerkofboard@aqmd.gov . Kailangan na tumawag kayo sa loob nang limang araw (5 days) bago ang inyong hearing date at ibigay and inyong pangalan at case number, araw nang inyong pagdinig sa kaso at inyong gusto na may lenguahe na interpreter".
Thai	หากคุณต้องการล่ามในการขึ้นศาล ให้ติคต่อเจ้าหน้าที่ ล่วงหน้าอย่างน้อย 5 วันก่อนวันขึ้นศาล โดยติคต่อที่เบอร์โทร 909-396-2500 หรือโดยe-mailที่
	clerkofboard@aqmd.gov ให้บอกชื่อและหมายเลกของคดี พร้อมทั้งวันเวลาในการขึ้นศาล และระบุภาษาที่คุณต้องการล่าม



South Coast Air Quality Management District 21865 Copley Drive, Diamond Bar, CA 91765-4178

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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID	Connected	RECLAIM	Emissions*	Conditions
· ·	No.	To	Source Type/	And Requirements	
	i		Monitoring Unit	-	
Process 1: MINITERNAL GO	МBU	STION			
GAS TURBINE, UNIT NO.2,	D7	C9	NOX: MAJOR	CO: 4 PPMV NATURAL GAS	A63.1,
NATURAL GAS, GENERAL			SOURCE**; SOX:	(4) [RULE 1703(a)(2) -	A195.1,
ELECTRIC, MODEL LMS100PA,			PROCESS UNIT**	PSD-BACT, 10-7-1988]; CO:	A195.2,
SIMPLE CYCLE, INTERCOOLED,				2000 PPMV NATURAL GAS (5)	A195.3,
891.7 MMBTU/HR AT 30 DEGREES F,				[RULE 407, 4-2-1982]; NOX: 2.5	A327.1, C1.1,
WITH WATER INJECTION WITH				PPMV NATURAL GAS (4)	D12.1, D29.2,
A/N: 636709	1			[RULE 1703(a)(2) - PSD-BACT,	D29.3, D82.1,
	1			10-7-1988; RULE 2005,	D82.2, E57.1,
•				12-4-2015; RULE 2005,	E193.1, H23.1,
				11-5-2021]; NOX: 15 PPMV	1298.2, 1298.8,
				NATURAL GAS (8) [40CFR 60	K67.5
				Subpart KKKK, 3-20-2009]; PM:	
	ļ			0.01 GRAINS/SCF NATURAL	ļ
-				GAS (5) [RULE 475, 10-8-1976;	}
				RULE 475, 8-7-1978]; PM: 0.1	
3				GRAINS/SCF NATURAL GAS	
_				(5B) [RULE 409, 8-7-1981]; PM:	
				11 LBS/HR NATURAL GAS (5A)	
				[RULE 475, 10-8-1976; RULE	
				475, 8-7-1978]; SO2: (9) [40CFR	
	İ			72 - Acid Rain Provisions,	
,				11-24-1997]; SOX: 0.06	
·				LBS/MMBTU NATURAL GAS	ļ
	ĺ			(8) [40CFR 60 Subpart KKKK,	ŀ
	1			3-20-2009]; SOX: 0.67	
	1			LBS/MMSCF (1) [RULE 2011,	
				5-6-2005]; VOC: 2 PPMV	1
				NATURAL GAS (4) [RULE	1
[1			1303(a)(1)-BACT, 5-10-1996;	
				RULE 1303(a)(1)-BACT	
				12-6-2002]	
				1	
GENERATOR, 100:1 NET MW (104					
GROSS MW)	<u> </u>	<u>l </u>	<u> </u>	<u></u>	<u>L</u>

*	-(1) (1A)	(1B) Denotes	RECLAIM	l emission factor	
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Denotes RECLAIM concentration limit (4)

(3) (5) (5A) (5B) Denotes command and control emission limit (6)

Denotes NSR applicability limit

(2) (2A) (2B) Denotes RECLAIM emission rate

Denotes BACT emission limit

Denotes air toxic control rule limit

(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)

See App B for Emission Limits

(10)See section J for NESHAP/MACT requirements

Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The South Coast AQMD shall be notified of the date and time of the test at least 7 days prior to the test

The test shall be performed at least annually. If the results of any annual test show noncompliance then quarterly tests shall be conducted until at least 4 consecutive quarterly tests show compliance, at which time annual tests may be resumed.

The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using District Method 100.1 measured over a 60 minute averaging time period

The test shall be conducted to determine compliance with the Rule 1303 BACT concentration limit.

Source test results shall be submitted to the District no later than 60 days after the source test was conducted. Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis) and mass rate (lb/hr). All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute. All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

Devices subject to this condition: D1, D7, D13, D19, D25

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to	Required Test Method(s)	Averaging Time	Test Location
be tested	-1	ļ	ļ



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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

SOX emissions	AQMD Laboratory Method 307-91	Not Applicable	Fuel sample
VOC emissions	District Method 25.3	1 hour	Outlet of the SCR serving this equipment
PM10 emissions	District method 5.1	District-approved averaging time	Outlet of the SCR serving this equipment
PM2.5	District method 5.1	District-approved averaging time	Outlet of the SCR serving this equipment



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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test(s) shall be conducted at least once every three years. The SCAQMD shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted in accordance with an SCAQMD approved test protocol. The protocol shall be submitted to the SCAQMD engineer no later than 45 days before the proposed test date and shall be approved by the SCAQMD before the test commences unless otherwise specified by the Executive Officer.

The test protocol shall include the proposed operating conditions of the turbine during the tests, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304, and a description of all sampling and analytical procedures.

The test shall be conducted when this equipment is operating at loads of 100, 75, and 50 percent, with the exception of PM10 and PM2.5 testing. For PM10 and PM2.5. the test shall be conducted when this equipment is operating at a load of 100 percent. A single test may be conducted for both PM10 and PM2.5. The results of the test shall be assumed to be all PM2.5 and smaller.

For natural gas fired turbines only, for the purpose of demonstrating compliance with VOC BACT limits as determined by SCAQMD, the operator shall use Method 25.3 modified as follows:

- a) Triplicate stack gas samples extracted directly into Summa canisters, maintaining a final canister pressure between 400-500 mmHg absolute,
- b) Pressurization of the Summa canisters with zero gas analyzed/certified to contain less than 0.05 ppmv total hydrocarbons as carbon, and
- c) Analysis of Summa canisters per the canister analysis portion of SCAQMD Method 25.3 with a minimum detection limit of 0.3 ppmv or less and reported to two significant figures. The temperature of the Summa canisters when extracting samples for analysis shall not be below 70 degrees Fahrenheit.

The use of this alternative method for VOC compliance determination does not mean



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FACILITY PERMIT TO OPERATE WALNUT CREEK ENERGY, LLC



SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

that it is more accurate than unmodified SCAQMD method 25.3, nor does it mean that it may be used in lieu of SCAQMD Method 25.3 without prior approval, except for the determination of compliance with the BACT level of 2.0 ppmv VOC calculated as carbon for natural gas fired turbines.

The test results shall be reported with two significant digits

For the purpose of this condition, alternative test method may be allowed for each of the above pollutants upon concurrence of SCAQMD, EPA, and CARB.

Source test results shall be submitted to the District no later than 60 days after the source test was conducted. Emission data shall be expressed in terms of concentration (ppmv) corrected to 15 percent oxygen (dry basis), mass rate (lb/hr), and lb/MMCF. All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute. All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include the oxygen levels in the exhaust, fuel flow rate (CFH), the flue gas temperature, and the generator power output (MW) under which the test was conducted.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1703(a)(2) - PSD-BACT, 10-7-1988]

[Devices subject to this condition: D1, D7, D13, D19, D25]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters: