SOUTH COAST AOMD CLERK OF THE BOARDS PETITION FOR VARIANCE BEFORE THE HEARING BOARD OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 2024 FEB 23 PM 4: 38

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PETIT	TIONER: GOODRICH CORPORATION	CASE NO: 6253-1
		FACILITY ID: <u>11998</u>
	.ITY ADDRESS: <u>11120 S Norwalk Blvd</u> tion of equipment/site of violation; specify business.	/corporate address, if different, under Item 2, below
City, S	State, Zip <u>: Santa Fe Springs, CA 90670</u>	
1.		box may be checked; see Attachment A, Item 1, before
	selecting)  INTERIM SHORT REGULAR	EMERGENCY EX PARTE EMERGENCY
2.	CONTACT: Name, title, company (if different than authorized to receive notices regarding this Petition (r	n Petitioner), address, and phone number of persons no more than two authorized persons).
	Mark Ruiz	Sandra Perez
	Associate Director of Operations/Site Lead	Env. Health & Safety Manager
	11120 S. Norwalk Blvd	11120 S. Norwalk Blvd
	Santa Fe Springs Zip 90670	Santa Fe Springs Zip 90670
	<b>(</b> 562 )906-7342 Ext.	<b>☎</b> (562)906-6534
	Fax_()	Fax_()
	E-mail_mark.a.ruiz@collins.com	E-mail_sandra.m.perez@collins.com
3.	RECLAIM Permit  Yes  No	Title V Permit Yes No
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Persons with disabilities may request this document in an alternative format by contacting the Clerk of the Board at 909-396-2500 or by e-mail at clerkofboard@aqmd.gov.

If you require disability-related accommodations to facilitate participating in the hearing, contact the Clerk of the Board at least five (5) calendar days prior to the hearing.

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

	ch copy of denial letter			
	Emergency Flare	G30825	N/A	N/A
	Equipment/Activity	Application/ Permit No.	RECLAIM Device No.	Date Application/Plane Denied (if relevant)*
R	ist the equipment and/or activity(s) that are the attach copies of the Permit(s) to Construct and ECLAIM or Title V facilities, attach only the quipment or process and conditions that are termit to the hearing.	nd/or Permit(s) to Op- relevant sections of t	erate for the subj he Facility Permi	ect equipment. F
	components for aircraft. Carbon fiber textile m brake production process. The furnace deck p machine shop process includes machining an	process includes densited hardware assembly.	fication, heat treatr	ment, and coating.
	The Goodrich Corporation facility on Norwalk	Blvd in Santa Fe Sprin	gs manufactures of	carbon brakes and
Е	Briefly describe the type of business and proces	sses at your facility.		
	Basis for Variance Request: There is a possoccur that would result in the need to use the operated for 10 minutes in connection with a interim and regular variance to operate the er	short duration boiler of	example, on Febru	ary 16th, the flare
	ceramic vapor deposition (CVD) furnace resinormally combusted. The gas instead vente. The event resulted in an exceedance of the offlare permit (#G30825).	d to the emergency fla	bypassing the pro	n unanticipated and pid valve in a carbor cess boilers where mbusted, as design lling) in the emerge

	bber and boiler while in operation for VOC and toxic air corcy flare, there is a potential for direct venting of process gas istion of these gases.					
If yes, how often: Annual	and/or inspection schedule for this equipment? Yes  ly Date of last maintenance and/or inspection inspection that was performed.					
This is the annual preventativ	e maintenance procedure:					
FLARE:	NT. DECLARE A DILOT TO- AO NEEDED					
	MANDATORY PER PERMIT: REPLACE 2 PILOT TCs AS NEEDED					
	MANDATORY PER PERMIT: REPLACE 1 BODY TCs AS NEEDED  TC SAP VENDOR#51335 OMEGA ENGINEERING CO PART#HKQIN-14U-24					
TC TYPE K, 32 to 2100°F						
CHECK PERMIT PRESENCE. REPLACE IF MISSING OR UNREADABLE.						
		NO AND COPPECT				
CHECK TEMPERATURE TRANSMITTERS 13-TI-113A,B, AND C AND SURE EACH FUNCTIONING AND CORRECT.  CALIBRATE TRANSMITTERS AS NEEDED.						
ENSURE ALL EQUIPMENT FUNCTIONING AND NO LEAK IS DETECTED. USE HANDHELD AROUND FLARE BASE AND						
FLAME ARRESTOR.						
	R VISIBLE DEFORMATIONS AND WELD CRACKS. REPLACE IN KIND	IF NECESSARY.				
	2. INSPECT IGNITION LINES FOR LOW POINTS AND SAGGING.					
	3. CHECK PILOT GAS ROTOMETER FOR 8 TO 10 SCFM OF FLOW.					
	4. INSPECT MIXING AND IGNITING SIGHT GLASS OR CRACKS OR POOR VISIBILITY					
5. INSPECT LINE LEADING	5. INSPECT LINE LEADING TO FLARE FOR CORROSION, PITTING OR BURNT PAINT. WRITE OBSERVATIONS HERE:					
are seeking variance relief (if received) explain how you are or will be in	nit conditions [indicating the specific section(s) and subsect questing variance from Rule 401 or permit condition, see At violation of each rule or condition (see Attachment A, Item	tachment A) Briefly				
Rule	Explanation					
Permit Condition No. 3	The equipment malfunction/ emergency event resulted in hours of the emergency flare exceeding the current 13 hours of the emergency flare exceeding the current 13 hours of the emergency flare exceeding the current 13 hours	16 total run time				

The Emergency Flare line is used as a backup air pollution control system to exhaust process gas from ceramic vapor deposition furnaces during emergencies. During normal operations, the furnace waste process gas is combusted through onsite boilers. SCAQMD permits for these furnaces have conditions that require the

flare again.

limit set forth in the air permit. There is the possibility within the next 12 months another incident could occur which would necessitate operating the emergency

0.	Are the equipment or activities subject to this	s request currently un	der variance coverage?	Yes N
	Case No. Date of Action	Final Compliance Date	Expla	anation
			×	
	Are any other equipment or activities at this local coverage? Yes No	ocation currently (or w	vithin the last six months)	under variance
	Case No. Date of Action	Final Compliance Date	Explan	nation
	If yes, you must attach a copy of each notice.  Have you received any complaints from the purithin the last six months? Yes N		eration of the subject equ	ipment or activity
	If yes, you should be prepared to present deta	ils at the hearing.		
	Explain why it is beyond your reasonable contrapped specific event(s) and date(s) of occurrence(s),	rol to comply with the if applicable.	rule(s) and/or permit con	dition(s). Provide
	Due to equipment malfunction on 2/2/24 and However, the flare was in-use for 16 hours, condition. For safety reasons, and compliant Emergency Flare Line on standby for use sh (e.g., G71191, Permit Condition 4). Subsequin order to maintain compliance with other S control of VOC and TACs from the waste gabecause the two boilers have control devices (SCR) and ultra-low NOx burners.	therefore exceeding to ace with AQMD permit could there be an upsuchtly the flare must of academic acceptance of academic excess emissions.	he 13-hour, 12-month roll G30825, Goodrich is req et condition with primary continue to be available fo its. Operation of the flare are limited to oxides of ni	ling period permit juired to have the combustion boile or emergency use will result in trogen (NOx)
U M	AY ATTACH ADDITIONAL PAGES IF NECESSARY]		Page	4 OF 12

15.	When and how did you first become aware that you would not be condition(s)? Provide specific event(s) and date(s) of occurrence	
	On Saturday, 2/3/2024 a mechanic discovered that a solenoid process gas to be vented to the flare line, where it was combu	
16.	List date(s) and action(s) you have taken since that time to achie	eve compliance.
	<ul> <li>Isolated system to stop flaring and replaced failed sole</li> <li>Programmed additional failure alarms to all incoming immediate action by staff that are present in a control</li> <li>Reviewed facility records to confirm no similar inciden</li> </ul>	poiler and flare valves to ensure detection and room on a 24-hour-per-day basis on 2/5/2024.
17.	What would be the harm to your business during and/or after the granted?  Economic losses: \$72,093,860	e period of the variance if the variance were not
	Number of employees laid off (if any): 110  Provide detailed information regarding economic losses, if any, (a hardship on customers, layoffs, and/or similar impacts).	anticipated business closure, breach of contracts,
[YOU MA	Y ATTACH ADDITIONAL PAGES IF NECESSARY]	PAGE 5 OF 12

The flare is an essential safety and air pollution control for the site's manufacturing operations. Without back-up flaring capability, the site would be unable to safely manufacture carbon products, and so the facility would need to be shut down. The economic loss figures are therefore based on the shutdown of the facility through January of 2025, calculated using estimated sales and cost of goods sold applicable to the site for 2024. Shutdown of the facility would impact the local SFS/ Norwalk economy by layoff of the 110 Goodrich employees working at the site, not counting external suppliers which support the site.

Additionally, the site supports various commercial and military aircraft programs, including US Air Force programs. Some special processes to support products (including military program products) are unique to the Santa Fe Springs Goodrich facility and are not currently performed at other Goodrich facilities. Knowledge transfer and qualification of these commercial and military programs at other sites would take around 2 years to be initiated and completed. Until such transfers and qualifications are completed, Goodrich would be unable to supply products, resulting in Goodrich's inability to fulfill orders for these programs and potential customer claims. Additionally, delays in order fulfillment of military program components could reduce warfighter readiness and otherwise impact national security.

18. Can you curtail or terminate operations in lieu of, or in addition to, obtaining a variance? Please explain.

No, Goodrich is required to have a backup flare in full operation in order to run the essential proprietary carbon-carbon densification process. Goodrich plans to seek a permit revision in consultation with District staff to allow more than 13 hours of potential operation of the flare per rolling 12-month period.

19. Estimate excess emissions, if any, on a daily basis, including, if applicable, excess opacity (the percentage of total opacity above 20% during the variance period). If the variance will result in no excess emissions, insert "N/A" here and skip to No. 20.

	(A)	(B)	(C)*
Pollutant	Total Estimated Excess Emissions (lbs/day)	Reduction Due to Mitigation (lbs/day)	Net Emissions After Mitigation (lbs/day)
NOx	0.396 lbs during day of event	NA	0.396 lbs during day of event
Solumn Aminus Column B. O. I.			

*	Column	Α	minus	Column	B	=	Column	C
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Excess Opacity: N/A %

20. Show calculations used to estimate quantities in No.19 or explain why there will be no excess emissions.

Under normal operation, the process gas passes through an AQMD permitted oil scrubber before it reaches the boilers for combustion. In emergencies, the back-up flare is used as a means to safely evacuate and combust process gases. The composition and volume of gases does not change from normal operation, only the device with which it is combusted. Combustion emissions are assumed to be the same through the boiler or emergency flare. NOx would likely be higher. The default emission factor for gas combustion is 130 lb/MMSCF.

Excess Emissions = Gas Burned (MMSCFH) x EF (lb/MMSCF)
Excess Emissions = 0.00102 (MMSCFH) x 130 (lb/MMSCF) x 3 hrs = 0.396 lbs

21. Explain how you plan to reduce (mitigate) excess emissions during the variance period to the maximum extent feasible, or why reductions are not feasible.

The facility conducted an internal investigation on detection and mitigation of flare usage and has or will implement the following:

- 1. Update alarms on all valves to instruct operators on recommended actions and possible causes for flare operation. (pop up window).
- 2. Modify flare alarm programming to detect scenario that occurred during the incident.
- Shut down all furnaces in operation should a pathway to flare be opened during non-emergency scenario.
- 4. Modify flare timer programming to detect any possible pathways for process gas to enter flare line.
- 5. Evaluate Infra-Red camera as secondary source to trigger flare timer and alarms.
- 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.

Goodrich has flow, temperature, and valve positions on a 24/7 monitored control system. These measurements allow adequate monitoring and quantifying emissions.

- 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.
  - 1. Update alarm help on all valves to instruct operators on recommended actions and possible causes for flare operation. (pop up window). To be completed by 3/16/2024.
  - Modify flare alarm logic to detect scenario that occurred during the incident. To be completed by 4/1/2024.
  - 3. Shut down all furnaces in operation should a pathway to flare be opened during non-emergency scenario. To be completed by 5/3/2024.

	A Modification C
	<ol> <li>Modify flare timer programming to detect any possible pathways for process gas to enter flare line.</li> <li>To be completed by 3/8/2024.</li> </ol>
	<ol> <li>Evaluate Infra-Red camera as secondary source to trigger flare timer and alarms. To be completed by 4/5/2024.</li> </ol>
	6. Goodrich plans to seek a permit revision in consultation with District stoff to allow more than 40 to
	of potential emergency operation of the flare per rolling 12-month period.
24.	State the date you are requesting the variance to begin a good to
	State the date you are requesting the variance to begin:2/3/24; and the date by which you expect to achieve final compliance:2/2/25
	If the regular variance is to extend beyond one year, you <b>must</b> include a <b>Schedule of Increments of Progress</b> , 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).
	NA NA
25.	List the names of any District personnel with whom facility representatives have had contact concerning this variance petition or any related Notice of Violation or Notice to Comply.
	Andrea Barlow 909-396-2500 Ext
	Ext
	If the petition was completed by someone other than the petitioner, please provide their name and title below.
	Name Company Title
	The undersigned, under penalty of perjury, states that the above petition, including attachments and the items therein set forth, is true and correct.
	Executed on February 23, 2024 , at 11120 S. Norwalk Blvd. Santa Fe Springs, California
	Mark Ruiz
	Signature Print Name
	Title: Associate Director of Operations
[VOLLA	AV ATTACH ADDITIONAL DACES IS NECESSADY)
I TOU N	AY ATTACH ADDITIONAL PAGES IF NECESSARY] PAGE 8 OF 12



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

Page 1 Permit No. G30825 A/N 499392

### PERMIT TO OPERATE

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for the annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner

or Operator:

GOODRICH CORPORATION 11120 S NORWALK BLVD

SANTA FE SPRINGS, CA 90670-3885

ID 11998

**Equipment Location:** 

11120 S NORWALK BLVD, SANTA FE SPRINGS, CA 90670-3885

#### **Equipment Description:**

#### AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

- EMERGENCY FLARE, JOHN ZINK, MODEL EEF-U-3, 3" FLARE TIP, 4.4 MMBTU/HR, PROCESS 1. GAS FIRED, WITH A PROPANE PILOT AND A LIQUID SEAL DRUM.
- EXHAUST SYSTEM WITH A COMMON BLOWER VENTING FOURTEEN CARBON CERAMIC 2. VAPOR DEPOSITION FURNACES.

#### Conditions:

- OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA 1. AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
- THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING 2. CONDITION AT ALL TIMES.
- THIS EQUIPMENT SHALL NOT BE USED MORE THAN 13 HOURS IN ANY ONE 12-MONTH ROLLING 3. PERIOD.
- THIS EQUIPMENT SHALL BE EQUIPPED WITH A TEMPERATURE INDICATOR AND RECORDER 4. WHICH MEASURES AND RECORDS THE EXITING FLUE GAS TEMPERATURE.
- WHENEVER THIS EQUIPMENT IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 5. DEGREES FAHRENHEIT SHALL BE MAINTAINED IN THE STACK AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER.
- THE EQUIPMENT SHALL BE EQUIPPED WITH A FLAME FAILURE ALARM WITH AN AUTOMATIC 6. SYSTEM TO ISOLATE THE FLARE FROM THE CARBON CERAMIC VAPOR DEPOSITION FURNACE PROCESS GAS SUPPLY LINES, SHUT OFF THE BLOWER, AND NOTIFY A RESPONSIBLE PARTY OF THE SHUTDOWN.
- THE EQUIPMENT OPERATING THERMOCOUPLE SHALL BE LOCATED IN THE FLAME BODY. 7.

ORIGINAL



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

Page 2 Permit No. G30825 WN 499392

## PERMIT TO OPERATE

- THE TOTAL FLOW RATE OF PROCESS GASES FROM THE CVD FURNACES TO THIS FLARE SHALL 8. NOT EXCEED 12,000 DRY STANDARD CUBIC FEET PER HOUR.
- 9. ANY BREAKDOWN OR MALFUNCTION OF THE EQUIPMENT RESULTING IN THE EMISSION OF RAW GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
- THE EQUIPMENT OPERATOR SHALL MAINTAIN ADEQUATE RECORDS FOR THIS EQUIPMENT TO 10. SHOW COMPLIANCE WITH CONDITION NUMBERS 3, 5, AND 8. ALL RECORDS SHALL BE PREPARED IN A MANNER THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

#### NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

**EXECUTIVE OFFICER** 

By Dorris M.Bailey/RL01

4/17/2014



SOUTH COAST AOMD CLERK OF THE BOARDS 2024 FEB 23 PM 4: 50 ROBERT L. HINES rhines@fbm.com D 415.954.4935

February 23, 2024

# Via Federal Express and Email (pdf)

Faye Thomas, Clerk of the Boards South Coast Air Quality Management District – Hearing Board 21865 Copley Drive Diamond Bar, CA 91765 Email: clerkofboard@aqmd.gov

Re: In the Matter of Goodrich Corporation
Petition for Variance (Interim and Regular)

SCAQMD Hearing Board Case No. 6253-1

Dear Ms. Thomas:

On behalf of Goodrich Corporation ("Goodrich") this letter accompanies one original and nine (9) copies of the Petition for Variance for filing with the Hearing Board. Please return a date-stamped/endorsed copy of the Petition in the enclosed, pre-stamped return envelope. We understand that an invoice will be issued once the Petition has been filed.

We look forward to hearing from your office regarding a date for the hearing. If you have any questions or need more information, please let me know. Thank you for your courtesy and cooperation.

Sincerely,

Robert L. Hines

Rules Hi

RLH:af

**Enclosures**