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7	BEFORE THE HEARING BOARD OF THE	
8	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	
9	SOUTH COAST AIR QUALITT MANAGEMENT DISTRICT	
10	In the Matter of	CASE NO. 6167-4
11	COLTON POWER, LP – CENTURY [Facility ID	
12	No. 182561]	DECLARATION OF JOSEPH SHEPHARD
13	Petitioner.	SHEPHARD
14	VS.	N 1 00 0004
15	SOUTH COAST AIR QUALITY	Hearing Date: March 26, 2024 Time: 9:30 a.m.
16	MANAGEMENT DISTRICT.	Place: Hearing Board South Coast Air Quality
17	Respondent.	Management District 21865 Copley Drive Diamond Bar, CA 91765
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20	DECLARATION OF JOSEPH SHEPHARD	
21	I, Joseph Shephard, declare as follows:	
22	1. I am employed as the plant manager overseeing the maintenance and operations of the	
23	Colton Power, LP-Century electric power generating facility ("Facility"). I am directly	
24	employed by North America Energy Services ("NAES"), which is responsible for	
25	operating the Facility. I either have first-hand knowledge of events or have reviewed	
26	information and data related to this petition for regular variance, and I am competent to	
27	testify to the facts set forth herein.	
28	2. The Facility is an electricity generating plant utilizing four simple cycle 10.5-MW natural	
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COLTON POWER, LP – CENTURY [Facility ID No. 182561] – DECLARATION OF JOSEPH SHEPHARD

- gas-fired combustion turbines. The Facility's main purpose is to provide electricity to the City of Colton in times of peak demand.
- 3. In early September 2023, Facility management was reorganized, and new plant management personnel were assigned operations and maintenance responsibilities for the Facility. I began managing the Facility at this time as part of this reorganization. As part of this transition, the Facility's management team has been implementing system evaluations and performing maintenance where needed. I oversee personnel tasked with directing all Operations and Maintenance activities at the plant. My responsibilities include ensuring the safe and efficient operation of the Facility and ensuring that the plant is operated in compliance with applicable safety, environmental, and power generating requirements. This includes oversight of personnel that conduct air quality testing and activities pursuant to the Facility's Title V Permit to Operate.
- 4. As part of the maintenance review conducted after I began managing the Facility, it was determined that a new Selective Catalytic Reduction ("SCR") catalyst was required for each of the four combustion turbines at the Facility, including Unit D15. It was determined that the SCR catalyst replacement required an application to South Coast Air Quality Management District ("AQMD") for a RECLAIM/Title V Minor Permit Revision. This application was filed on November 21, 2023.
- 5. On December 7, 2023, Facility engineers attempted to operate Unit D15 to confirm it would perform properly for the ammonia (NH3) slip test. At that time, the engineers and plant operators were unable to keep Unit D15 operating. The engineers and operators attempted to complete repairs that day but were unable to do so.
- 6. From December 8th through December 12th, Facility staff set up data ports to enable remote access into the unit for tuning. SISO Engineering, a controls engineering company, assisted with the remote set up. On December 13th, the remote access was tested. On December 14th, staff test ran the unit for remote testing from by an outside contractor who specializes in the Facility's GE10 model turbines. During the test, the unit faulted and tripped during several of the data collecting runs. A maximum of 2 MWs

- was achieved and only for limited times. On December 14th, Colton Power engineers again tried to fix Unit D15, but were still unable to keep the unit running. It was determined that it would not be possible to run the unit during the scheduled ammonia slip test.
- 7. South Coast Air Quality Management Rule 1134(e)(2)(C)(iii) states that ammonia slip testing of natural gas fired turbines, such as the ones at the Facility, must be conducted by the end of the calendar year. Condition D28.1 of the Facility's Permit to Operate contains a similar condition. South Coast AQMD testing standards require that the unit operate at normal load. However, Unit D15 could not operate consistently for the length of time or load required for testing by the end of 2023, and could not respond to a City of Colton dispatch demand.
- 8. On December 19, 2023, the Facility was granted an ex parte emergency variance from South Coast AQMD Rules requiring the annual ammonia slip test for Turbine Unit D15, which includes 203(b), 2004(f)(1) and 3002(c)(1)[from Section D, Condition No. 28.1 of Title V/RECLAIM Facility Permit to Operate 182561} and Rule 1134(e)(2)(C)(iii).
- 9. On January 11, 2024, South Coast AQMD granted a short variance from South Coast AQMD Rules requiring the annual ammonia slip test for Turbine Unit D15, which includes 203(b), 2004(f)(1) and 3002(c)(1){from Section D, Condition No. 28.1 of Title V/RECLAIM Facility Permit to Operate 182561} and Rule 1134(e)(2)(C)(iii). The short variance ends March 29, 2024.
- 10. Subsequent to issuance of the short variance, an outside contractor tested and assessed Unit D15. The outside contractor calibrated and tuned the combustor, and was ultimately successful in starting Unit D15.
- 11. At the time of the short variance, the Facility expected to have the maintenance and repairs, including replacement of the twenty-year old SCR catalyst, completed by the end of March 2024.
- 12. The South Coast Air Quality Management District's online Facility Information Detail ("F.I.N.D.") indicates that the Facility's applications for minor permit revisions to allow

- installation of new SCR catalyst began the required 45-day period for review by the U.S. Environmental Protection Agency ("EPA") on or about February 22, 2024. Based on this updated information, the Facility is not expected to have the requisite permit allowing installation of the new SCR catalyst before mid-April.
- 13. When the Facility sought and obtained the short variance, Petitioner anticipated the permit to construct for the new SCR catalyst would be issued in sufficient time for the installation of the new SCR catalyst for Unit D15 before expiration of the short variance deadline. However, it is now apparent that the required 45-day EPA review of the minor permit application for the new SCR catalyst will not be completed in time for the Facility to install the new SCR catalyst and perform the ammonia slip test by March 29, 2024, the end date of the short variance.
- 14. There are no anticipated excess emissions associated with the condition of Unit D15. While Unit D15 is currently operable, it is not operating as usual. Unit D15 is not being marketed for normal unit operation prior to installation of new SCR catalyst in order to avoid unnecessary operation of D15. However, it is available to the City of Colton under the most extreme electrical emergency conditions. Furthermore, D15 will not be available during the short period (approximately 1-2 weeks) needed for installation of the new SCR catalyst. As such, this regular variance is not anticipated to cause the Facility to exceed any emission limit.
- 15. Although Turbine Unit D15 is repaired and now operable, the Facility is taking measures to avoid operation until the new SCR catalyst is installed. Unit D15 will only be operated if necessary to serve the City of Colton during an electrical emergency. Because of this, the Facility cannot predict whether it will operate Unit D15 under normal conditions at normal load before the new SCR catalyst is installed. Therefore, the ammonia slip test for Unit D15 cannot reasonably be scheduled by the end of the short variance period.
- 16. If Unit D15 is kept offline, the Facility will incur penalties pursuant to the California Independent System Operator's ("CAISO") Resource Adequacy Availability Incentive Mechanism ("RAAIM"). RAAIM is a penalty imposed by CAISO where Resource

Adequacy Resources, such as the Facility, do not meet defined availability or performance thresholds. Colton Power estimates that these penalties would be approximately \$35,000 per month if Unit D15 is kept offline. Furthermore, Colton Power has not been able to procure replacement Resource Adequacy capacity that may help it avoid RAAIM penalties for the full period prior to anticipated SCR catalyst replacement, and even if available, such replacement capacity is expected to be much more expensive than incurring RAAIM penalties.

- 17. The existing SCR catalyst will be in place during any potential operation of Unit D15 during an extreme electric emergency condition. The Continuous Emissions Monitoring System ("CEMS") for Unit D15 will also be operated and maintained throughout the requested regular variance period. Furthermore, the Facility maintains a fuel flow meter to Unit D15 that records data establishing non-operation or operation. Records associated with the CEMS and the fuel flow meter will be kept during the period of the regular variance and can be provided to the South Coast Air Quality Management District upon request.
- 18. I have reviewed Health and Safety (H&S) Code Section 41700. The suspension of operation of Unit D15 pending repair and related delay of the ammonia slip test beyond the 2023 calendar year are not expected to result in a violation of H&S Code Section 41700.
- 19. Without a regular variance, the Facility will be in violation of South Coast AQMD rules due to the inability to adequately perform the annual ammonia slip test for Unit D15, which was due by March 29, 2024 pursuant to the previously granted short variance.

I declare under penalty of perjury under the laws of the State of California that the forgoing is true and correct, and that this declaration was executed on March 14, 2024 in Tracy, California.

DATED: March 14, 2024

Joseph Shephard

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