

MARICOPA COUNTY AIR QUALITY DEPARTMENT

Permitting Division

301 W. Jefferson St., Suite 410, Phoenix, Arizona 85003

Phone: 602-506-6010 Fax: 602-506-6985

AIR QUALITY PERMIT TO OPERATE AND/OR CONSTRUCT

(As required by Title 49, Chapter 3, Article 2, Section 49-480, Arizona Revised Statutes)

ISSUED TO

**Deer Valley Transfer Station
2120 W. Adobe Dr.
Phoenix, 85027**

This air quality permit to operate and/or construct does not relieve the applicant of the responsibility of meeting all air pollution regulations.

THE PERMITTEE IS SUBJECT TO THE SPECIFIC AND GENERAL CONDITIONS IDENTIFIED IN THIS PERMIT.

FACILITY NUMBER: F000443

LEGACY PERMIT NUMBER: 000024

PERMIT NUMBER: P0011601

REVISION DATE: 03/06/2024

EXPIRATION DATE: 04/30/2024

EMISSION REDUCTION CREDITS (ERCs)

The following conditions describe standards and measures necessary to comply with Rule 204, which governs the generation of Emission Reduction Credits (ERCs). Conditions 37-46 are included as voluntary limits and activities and are enforceable permit conditions.

37. Quantity of ERCs and Identification of Vehicles:

- a. ERCs of 11.2 tons of nitrogen oxides (NO_x) covered under this permit are achieved with 74 CNG-powered replacement vehicles, which are part of ERCs achieved with a total of 225 CNG-powered replacement vehicles.
- b. The CNG-powered replacement vehicles listed in Appendix A, with identification numbers, account for the ERCs associated with this Permit.

38. Location:

The CNG-powered vehicles used to generate ERCs shall be based and operated within the Phoenix-Mesa ozone nonattainment area located within the jurisdiction of the MCAQD.

[SIP Rule 220 §302.2] [Rule 204 §305.1]

39. Vehicle Replacement:

CNG-powered vehicles that were used to acquire ERCs shall be replaced with vehicles certified to the current NO_x emission limit of 0.02 g/bhp-hr or less.

[SIP Rule 220 §302.2] [Rule 204 §305.1.a]

40. Quantification of Baseline Emissions and Emission Reductions:

- a. The Permittee's documentation to quantify baseline emissions and emission reductions shall comply with the methodology given in Rule 204 Appendix C and with emission factors in grams per mile traveled (g/mile) or comparable units based on application documents, most notably the calculations using Motor Vehicle Emission Simulator (MOVES) software.
- b. ERC quantification calculations shall not include emission reductions created or used under any other emissions trading program, emission reductions used to satisfy the State Implementation Plan including transportation conformity requirements, or any emission reductions pursuant to a federal consent decree, or state and local settlements.

[SIP Rule 220 §302.2] [Rule 204 §305.1.b & c]

41. Operation and Maintenance of CNG-Powered Vehicles:

The Permittee shall operate and maintain CNG-powered vehicles in accordance with the manufacturer's written instructions and maintenance program in order to ensure the continued generation of emission reductions. Vehicle operation and maintenance shall be documented in accordance with Permit Condition 45.d.vii.

[SIP Rule 220 §302.2] [Rule 204 §305.2.a]

42. Monitoring of Equipment Use:

The Permittee shall monitor the use of all CNG-powered equipment used to generate ERCs to verify that the equipment is operated in the same manner as was represented in the ERC application, specifically the emission calculations using Motor Vehicle Emission Simulator (MOVES) software. This monitoring shall include the follow, at minimum:

- a. Vehicle miles traveled (VMT) for each CNG-powered vehicle;
- b. Percent of VMT within the nonattainment area.

[SIP Rule 220 §302.2] [Rule 204 §305.2.b]

43. Removal/Disposal of Replaced Equipment:

- a. The Permittee shall permanently remove any replaced diesel-powered equipment from the nonattainment area or render the replaced equipment permanently disabled and dispose of in a manner that complies with all applicable local, state, and federal laws. For future CNG-powered equipment replacements, the Permittee shall provide evidence of proper disposal upon request from the Control Officer or from the permitted source using the ERCs as offsets. Evidence shall include at a minimum, serial numbers or vehicle numbers if the vehicle number is linked in the Permittee's records to the serial number, and location of where or how the equipment was disposed or removed from the nonattainment area.
- b. The Permittee shall monitor the location and usage of diesel-powered vehicles that were used to create ERCs and have been replaced but remain operational outside the ozone nonattainment area. Such monitoring shall include the following, at minimum:
 - i. Name and address of the current owner of the vehicle;
 - ii. Documentation showing the current owner's geographic coverage area;
 - iii. Description of current vehicle usage including the following:
 - 1) Customer names;
 - 2) Pickup and delivery locations (address or equivalent).

[SIP Rule 220 §302.2] [Rule 204 §305.2.d]

44. Inspections:

The Permittee shall allow the Control Officer access to the premises for conducting an inspection to verify compliance with requirements applicable to ERCs and their continued achievement. An inspection may include, but is not limited to, a review of records and reports.

[SIP Rule 220 §302.2] [Rule 204 §502]

45. Recordkeeping:

- a. Records shall be maintained on site at all times by the Permittee in a consistent and complete manner, in either electronic or paper format.
- b. Records shall be made available upon request and without delay to the owner or operator of the permitted source utilizing the ERCs and the Control Officer or his designee.
- c. Records shall be maintained for five (5) years beyond the use or retirement of the ERCs, or five years after the retirement of a CNG-powered vehicle which was used to generate ERCs. The ERCs are to be used as offsets for Intel Corporation, facility # F000701, permit # P0006742.

[SIP Rule 220 §302.2] [Rule 204 §501]

- d. CNG-powered equipment: Records shall include a detailed inventory of all CNG-powered equipment used to generate ERCs including all of the following for each piece of equipment:
 - i. The equipment manufacturer.
 - ii. The model number.
 - iii. The model year.
 - iv. A description of the equipment.
 - v. Information on sources used to obtain family or test group, fuel capacities, and emission rates of each CNG-powered vehicle when used to calculate ERCs.
 - vi. The date each CNG-powered vehicle was:
 - 1) Added to the inventory.

- 2) Removed from the inventory.
- vii. Any maintenance performed on a vehicle including the following, at minimum:
 - 1) A description of the maintenance;
 - 2) The date that the maintenance was performed;
 - 3) The effect of the maintenance on the continued achievement of the ERCs.
- e. Diesel-powered vehicle: Records shall include a detailed inventory of all diesel-powered vehicle used for the same purpose as CNG-powered vehicle including all of the following for each vehicle:
 - i. The vehicle manufacturer.
 - ii. The model number.
 - iii. The model year.
 - iv. A description of the vehicle including serial number.
 - v. Fuel type.
 - vi. The date each vehicle was:
 - 1) Added to the inventory.
 - 2) Removed from the inventory.
- f. Monthly review and, if necessary, update the vehicle inventory.
- g. Operational Records:
 - i. Monthly: For each CNG-powered vehicle used to generate ERCs, the Permittee shall record a description of all maintenance and repairs and at least one of the following to demonstrate the vehicle is used in the same manner as was represented in the ERC application, most notably the calculations using Motor Vehicle Emission Simulator (MOVES) software:
 - 1) Hours of operation.
 - 2) Mileage accrued.
 - ii. Monthly: For each diesel-fueled vehicle that can be used for the same purpose as the CNG-powered vehicle used to generate ERCs, the Permittee shall record a description of all maintenance and repairs and at least one of the following:
 - 1) Hours of operation.
 - 2) Mileage accrued.
 - 3) Fuel consumed.
- h. Replacement of diesel vehicles:

For any diesel vehicle that is replaced with a higher emitting vehicle, the Permittee shall notify the Department by the end of the month following the vehicle replacement so the Department can review Permittee records to ensure the ERCs continue to meet applicable requirements.

[SIP Rule 220 §302.2][Rule 204 §505]

46. Annual Reporting:

The Permittee shall submit a report to the Control Officer annually by March 1 for the most recent calendar year. The report shall include the following, at minimum:

- a. The quantity of ERCs, the vehicles used to generate the ERCs, and the identification of the vehicles, and their location and usage.

- b. A summary of the operation and maintenance of vehicles for the continued achievement of the ERCs. The summary shall include the following, at minimum:
 - i. A description of maintenance performed to ensure vehicle emissions remain at the level necessary to achieve the ERCs;
 - ii. A description of vehicle usage as it relates to emissions to ensure continued achievement of the ERCs.
 - iii. A description of any vehicle(s) that suffered damage or maintenance affecting the Permittee's achievement of the ERCs including how the Permittee maintained the ERCs under the circumstances.

[SIP Rule 220 §303.2]

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