



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

PERMIT TO OPERATE

B012001

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

EXPIRES LAST DAY OF: OCTOBER 2025

OWNER OF OPERATOR (Co. #1884)

Genesis Solar, LLC
11995 Wiley Wells Rd.
Blythe, CA 92225

EQUIPMENT LOCATION (Fac. #3137)

Genesis Solar - Blythe
11995 Wiley Wells Rd.
Blythe, CA 92225

Description:

HTF ULLAGE/EXPANSION SYSTEM - (UNIT 2) consisting of:

EQUIPMENT

Capacity	Equipment Description
0	HTF Ullage circulation pump
0	HTF Ullage discharge pump
0	HTF Ullage vessel 1
0	HTF Ullage vessel 2
0	Ullage cooler 1
0	Ullage cooler 2
0	HTF Ullage drain vessel
0	HTF Reclamation flash vessel
0	Associated piping and components

CONDITIONS:

Fee Schedule: 7 (i) Rating: 1 device SIC: 4911 SCC: 99999999 Location/UTM(Km): 727E/3723N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Genesis Solar, LLC
P.O. BOX 2370
Blythe, CA 92226

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

- 1.Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
- 2.This system shall store only HTF, specifically the condensable fraction of the vapors vented from the ullage system.
- 3.The expansion vessels, condensate receiver vessel, and HTF overflow tanks and ullage drain vessels shall be operated at all times under a nitrogen blanket.
- 4.The ullage/expansion system nitrogen venting shall be carried out only through District permit unit C011062 and/or C011063.
- 5.This equipment shall vent only solely through properly operating carbon adsorption system under valid District Permits C011062 and/or C011063.
- 6.Vent release shall be monitored in accordance with a District approved Inspection, Monitoring and Maintenance plan.
- 7.The owner/operator shall establish an inspection and maintenance program to determine, repair, and log leaks in HTF piping network and expansion tanks. Inspection and maintenance program and documentation shall be available to District staff upon request.
 - a. All pumps, compressors and pressure relief devices (pressure relief valves or rupture disks) shall be electronically, audio, or visually inspected once every operating day.
 - b. All accessible valves, fittings, pressure relief devices (PRDs), hatches, pumps, compressors, etc. shall be inspected quarterly using a leak detection device such as a Foxboro OVA 108 calibrated for methane.
 - c. Inspection frequency for accessible components, except pumps, compressors and pressure relief valves, may be changed from quarterly to annual when two percent or less of the components within a component type are found to leak during an inspection for five consecutive quarters.
 - d. Inspection frequency for accessible components, except pumps, compressors and pressure relief valves, shall be increased to quarterly when more than two percent of the components within a component type are found to leak during any inspection or report.
 - e. If any evidence of a potential leak is found the indication of the potential leak shall be eliminated within 7 calendar days of detection.
 - f. VOC leaks greater than 10,000-ppmv shall be repaired within 24-hours of detection.
 - g. After a repair, the component shall be re-inspected for leaks as soon as practicable, but no later than 30 days after the date on which the component is repaired and placed in service.
 - h. O/o shall maintain a log of all VOC leaks exceeding 10,000-ppmv, including location, component type, date of leak detection, emission level (ppmv), method of leak detection, date of and repair, date and emission level of reinspection after leak is repaired.
 - i. O/o shall maintain records of the total number of components inspected, and the total number and percentage of leaking components found, by component types made.
 - j. O/o shall maintain record of the amount of HTF replaced on a monthly basis for a period of 5 years.
- 8.If current non-criteria substances become regulated as toxic or hazardous substances and are used in this equipment, the owner/operator (o/o) shall submit to the District a plan demonstrating how compliance will be achieved and maintained with such regulations.
- 9.The emissions from this facility shall be less than the following limits:
 - a. 8 tons per year of any single HAP or 20 tons per year of any combination of HAPs on a 12 month calendar year basis
 - b. 12 tons of PM10 per year on a 12 month calendar year basis
 - c. 20 tons of NOx per year on a 12 month calendar year basis
 - d. 20 tons of VOC per year on a 12 month calendar year basis
 - e. 80 tons of CO per year on a 12 month calendar year basis
 - f. 20 tons of SOx per year on a 12 month calendar year basisCompliance with this limit shall be verified with monthly facility emission summaries. Monthly emissions summaries shall be calculated using a District-approved method, with at least the last two years of monthly emissions summaries maintained and available to be provided to District, State or Federal personnel upon request.
- 10.A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request. A comprehensive emission inventory including both criteria pollutants

and HAP/TAC shall be submitted every third submission.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]