

New Harquahala Generating Facility
Aquifer Protection Permit No. P-104190
Place ID 9991, LTF No. 94299
Significant Amendment

I. Introduction:

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an Aquifer Protection Permit (APP) for the subject facility that covers the life of the facility, including operational, closure, and post-closure periods unless suspended or revoked pursuant to Arizona Administrative Code (A.A.C.) R18-9-A213. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards (AWQS) at the Point of Compliance (POC); and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

II. Permittee

New Harquahala Generating Company, LLC

III. Facility Name & Location:

New Harquahala Generating Facility
2530 North 491st Avenue, Tonopah, AZ 85354

IV. Facility Description:

New Harquahala Generating Company (NHGC) is a 1,060-megawatt natural gas-fired, combined cycle, electric generating plant. The plant is owned by New Harquahala Generating Company, LLC. The power plant consists of three combined cycle power blocks, each including a combustion turbine generator and heat recovery steam generator. Water is used in the plant for heat rejection in a non-contact cooling water system, for evaporative cooling of combustion turbine inlet air, and for makeup water in the steam cycle. The plant is served by five water/wastewater systems; raw water treatment system; cooling water treatment system; oil/water separator; stormwater runoff control system; and a domestic sewage system.

V. Amendment Description:

The purpose of this amendment is to make the following changes:

- a. Add a three-segment Evaporation Pond (Phase 1) to the permit
- b. Include the ability for NHGC to deploy an Evaporation Enhancement System into the Evaporation Pond
- c. The addition of the Phase 2 Evaporation Pond expansion areas
- d. Add CSIs related to closure cost and financial assurance update

VI. Best Available Demonstrated Control Technology (BADCT):

Section 4.1, Table 5 of the permit describes BADCT for the new discharging facilities added to the permit.

VII. Compliance with Aquifer Water Quality Standards (AWQS):

Four (4) conceptual POC wells are added to the permit for Phase 1 and Phase 2 Pond (Table 2) for a total of six (6) POC wells, including the two (2) existing POC wells specific to the Contingency Pond.