



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: NEVADA POWER CO DBA NV ENERGY
6226 W SAHARA AVE, MS 30
LAS VEGAS, NV - 89119

Permit Number: NS0094000

Location: HARRY ALLEN GENERATING STATION, CLARK
14601 NORTH LAS VEGAS BOULEVARD, LAS VEGAS, NV - 89124
LATITUDE: 36.429286, LONGITUDE: -114.901447
TOWNSHIP: 17S, RANGE: 63E, SECTION: 25, 35, 36

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	DISCHARGE TO EVAPORATION POND #2	External Outfall		LAS VEGAS	NV	89124	CLARK	36.431211	-114.898558	GROUNDWATER
002	EVAPORATION POND #1	Internal Outfall		LAS VEGAS	NV	89124	CLARK	36.431211	-114.898558	GROUNDWATER
003	EVAPORATION POND #2	Internal Outfall		LAS VEGAS	NV	89124	CLARK	36.431211	-114.898558	GROUNDWATER

General:

The Harry Allen Generating Station has two nominal 75-megawatt (MW) combustion turbine generators, and a newly constructed combined cycle power block. The new power block consists of two identical 185 MW gas-fired turbines and one Heat Recovery Steam Generator. The plant obtains its process water from one well located in the Dry Lake Valley. Water is piped from this well to the plant through a 12-inch pipe. The Harry Allen waste stream is discharged to two 275' x 475' x 5.5', double-lined evaporation ponds. The ponds' water capacity, assuming two feet of freeboard, is approximately 5.5 million gallons, or 17 acre-feet.

Discharge Characteristics:

The waste stream includes water from the water treatment process including reverse osmosis reject water, evaporative cooler blowdown, administration and utility building fire protection sprinkler systems, and water that may be discharged from the raw water storage tank. Leak detection is achieved through visual verification at the leakage collection sumps.

Receiving Water:

Although the double-lined evaporation ponds are designed to prevent any discharges, the potential receiving water in the event of a leak is the groundwaters of the State of Nevada. Groundwater in the area is reported to be around 350 feet below the ground surface.

Summary of Changes From Previous Permit:

Because the Permittee is anticipating to exceed the existing the flow limit, but the ponds are designed to handle more flow than they are permitted for, the Permittee has submitted a request to increase the flow limit from 0.037 MGD to 0.452 MGD. In order to ensure the ponds can handle the additional flow, the Permittee must now report the freeboard of the ponds quarterly.

Due to new Permit naming conventions at NDEP, Bureau of Water Pollution Control, the permit ID has been

changed from NEV94000 to NS0094000. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada. These are not to be confused with “NV” permits which are reserved for NPDES Permitting.

Proposed Effluent Limitations:

The proposed discharges shall be monitored and recorded as outlined in the following tables:

Zero Discharge Limitations Table for Sample Location 001 (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
Hydrocarbons, total petroleum	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
pH, minimum	Minimum		>= 4.0 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT
pH, maximum	Maximum		<= 10.0 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 001 (External Outfall) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	<= 0.452 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.452 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER

Ponds / Rapid Infiltration Basins for Sample Location 001 (External Outfall) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Oil & grease	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Antimony, total (as Sb)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Arsenic, total (as As)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Beryllium, total (as Be)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Cadmium, total (as Cd)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Chromium, total (as Cr)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Copper, total (as Cu)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Lead, total (as Pb)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Mercury, total (as Hg)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Nickel, total (as Ni)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Selenium, total (as Se)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Silver, total (as Ag)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 001 (External Outfall) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Thallium, total (as Tl)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Zinc, total (as Zn)	Value		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 002 (Internal Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Freeboard	Minimum Value		>= 2.0 Feet (ft)	See Footnote ^[1]	002	Quarterly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

- Staff gauge on Pond #1

Ponds / Rapid Infiltration Basins for Sample Location 003 (Internal Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Freeboard	Minimum Value		>= 2.0 Feet (ft)	See Footnote ^[1]	003	Quarterly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

- Staff gauge on Pond #2

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	Condition B.PB.10 does not apply to this permit; the freeboard requirement for the ponds is 2 feet in accordance with calculations approved by NDEP.

Flow:

Because the Permittee is anticipating to exceed the existing flow limit, but the ponds are designed to handle more flow than they are permitted for, the Permittee has requested a flow limit increase from 0.037 MGD to 0.452 MGD.

Corrective Action Sites:

There is one Bureau of Corrective Actions site within a one-mile radius of this facility. The site is for TPH, which is monitored under this permit. Therefore, the BCA site is not anticipated to be negatively impacted by the permitted discharge activities.

Wellhead Protection Program:

The site is outside of the 6000-foot Drinking Water Protection Area, and no Wellhead Protection Area has been established.

Schedule of Compliance:

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	10/28/2013
2	Annual Report	Annually	1/1/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review Journal** for publication. The notice is being mailed to interested persons on our mailing list.

Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **9/9/2013**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.650.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Robert Wimer**

Date: **8/5/2013**

Title: **E.I.**