

J. Cramer
copy

PNM PUBLIC SERVICE COMPANY OF NEW MEXICO
ALVARADO SQUARE ALBUQUERQUE, NEW MEXICO 87158

November 12, 1992

Certified Mail
Return Receipt Requested

Mr. Chuck Thomas
Ground Water Section
New Mexico Environment Department
P.O. Box 26110
1190 St. Francis Drive
Santa Fe, NM 87502

Dear Mr. Thomas:

Subject: Notice of Intent To Discharge,
Person Generating Station,
Albuquerque, NM

Public Service Company of New Mexico (PNM) is presently investigating a groundwater contamination plume under a Corrective Action Directive (CAD) issued by the Hazardous and Radioactive Materials Bureau of the New Mexico Environment Department (NMED). As part of this investigation PNM will be testing three production wells, formerly used to supply process water to Person Generating Station in Albuquerque.

PNM is requesting permission to initially discharge the produced water into a concrete cooling tower basin, then after analysis (and if the water meets groundwater standards) discharge the water into a local arroyo. The arroyo connects immediately to an AMAFCA ditch running to the northwest of the Person Station property.

As required by WQCC Regulation 1-201.B, the following information is supplied:

B.1-2. Name and address of person making discharge:

Ron Johnson
Senior Environmental Scientist
Public Service Company of New Mexico
Alvarado Square - MS 0408
Albuquerque, NM 87158

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B.3. Location of the discharge:

Person Generating Station
Rio Bravo and Broadway Streets
Albuquerque, NM

The water will be initially held in a concrete cooling tower basin 62 feet wide by 100 feet long and 5 feet deep. The thickness of the concrete bottom and sides is 6 inches to 1 foot. Using these dimensions, it is calculated that each foot of basin will hold approximately 42,000 gallons of water. If the water meets groundwater standards discussed below, it will be pumped and discharged to a natural arroyo running along the northern edge of the Person Station property. This arroyo leads immediately into a ditch of AMAFCA (Albuquerque Metropolitan Arroyo Flood Control Authority) and thence to the Rio Grande approximately 3 miles down ditch.

B.4. An estimate of the concentration of water contaminants:

The Corrective Action Directive is investigating the extent of a groundwater plume containing primarily the following chlorinated solvents: perchloroethylene (PCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethylene (DCE). Testing of three other production wells on the property has yielded results for PCE in the range of 0.2 ppb to 13 ppb, DCE in the range of 0.2 to 16 ppb, and TCA in the range of 0.2 to 2.8 ppb. Chloroform has also been detected in the range of 0.2 to 4.9 ppb.

Production well water has not been tested for other WQCC parameters. However, analysis of aquifer waters from a shallow monitor well has shown the following results for Total Dissolved Solids, Chloride, and Iron: TDS 640 mg/l, Chloride 46 mg/l, Iron less than 0.02 mg/l.

During our testing we will analyze each production well using the SW-846 method 601/8010 (Halogenated Volatile Organics). Each well will also be tested for Total Dissolved Solids, chlorides, and iron. The NMED Groundwater and Surface Water Sections will be notified of results and permission will be requested before final discharge.

B.5. The quantity of the discharge:

Each production well will pumped to a maximum of four well casing volumes. The testing will probably be performed at least twice on each well. The volumes for each well are shown below:

Well ID	Casing Vol.(gal)	Total To Be Pumped (gal)
1	4,917	19,688
2	4,991	19,964
5	5,341	21,364
Total		60,996
x2		121,992

(Mr. Thomas)

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This will result in approximately 3 feet of water contained in the cooling tower basin.

Under our work schedule we would like to begin sampling of these production wells in late November or early December 1992, and would appreciate a response by November 23, 1992.

If you have any questions, please contact me at 848-2998.

Sincerely,



Ron D. Johnson
Sr. Environmental Scientist

RDJ:rdj

cc: Teri Davis - NMED Hazardous and Radioactive
Materials Bureau
Glen Saums - NMED Surface Water Bureau