



GARY E. JOHNSON GOVERNOR

State of New Mexico ENVIRONMENT DEPARTMENT Ground Water Protection

Harold Ri 1190 St. Francis Santa Fe, N (505) 82 (505) 82

Post-it Fax Note 7671 Date 300498 # of pages 16 To Carl Will From VIKK MARANVILLE Co./Dept. NMED/HRMB Co. NMED/GWQB Phone # Phone # 827 0652 Fax # 827-1544 Fax # 827-2965

DP APPROVAL & AMMEDMENTS TO DATE

CERTIFIED MAIL - RETURN

P 1&1 653 000

June 13, 1997

Ron D. Johnson, Technical Group Leader Public Service Company of New Mexico Alvarado Square MS 0408 Albuquerque, NM 87158

US Postal Service Receipt for Certified Mail

No Insurance Coverage Provided. Do not use for International Mail (See reverse) Ron D. Johnson, Technical Group Leader Public Service Co. of New Mexico Street Number Alvarado Square MS 0408 City Office Albuquerque, New Mexico 87158 Postage \$ Certified Fee

RE: DISCHARGE PLAN AMENDMENT APPROVAL, DP-1006, PNM PERSON STATION

Dear Mr. Johnson:

Pursuant to Water Quality Control Commission (WQCC) Reg. 3109, the request for amendment to DP-1006, dated May 15, 1997, submitted by you for amendment to the approved treatment and disposal system at PNM's Person Station is hereby approved, subject to the specific requirement listed below. The discharge plan was approved on January 15, 1995. The facility is located in Albuquerque's South Valley at the intersection of Rio Bravo and Broadway in Section 4, T9N, R3E, Bernalillo County. In approving this discharge plan amendment, the New Mexico Environment Department (NMED) has determined that the requirements of WQCC Reg. 3109.C have been met.

The approved discharge plan for the PNM Person Station is briefly described as follows:

Ground water below the PNM Person Station contaminated with 1,1,2, Tetrachloroethylene (PCE), 1,1 Dichloroethylene (1,1-DCE), and 1,1,1 Trichloroethane (1,1,1-TCA) is recovered and treated through an air stripper and thence through a liquid-phase carbon absorption system to reduce each of the above VOC's to concentration levels not to exceed 5 parts per billion. Treated water is pumped to the University of New Mexico's South Golf Course and discharged to two synthetically-lined irrigation storage lagoons located on the golf

Ron D. Johnson
DP-1006
June 13, 1997
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course. Treated water from PNM's Person Station is commingled with irrigation water and constitutes between 5 and 10 per cent of the water stored in the lagoons.

The approved amendment to the treatment and disposal system of PNM's Person Station is briefly described as follows:

An acid treatment system will inject concentrated sulfuric acid into the influent stream in amounts sufficient to prevent mineral precipitation in the air stripper and/or the granular activated charcoal (GAC) units. Effluent from the GAC will be monitored for pH and sulfate.

However, approval of this amendment to your discharge plan does not relieve you of your responsibility to comply with any other conditions or requirements of the approved discharge plan, DP-1006, or any other applicable federal, state, and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

SPECIFIC REQUIREMENTS

The following specific requirement shall replace Specific Requirement #7 approved in the March 25, 1996 amendment of discharge plan, DP-1006.

PNM will inject concentrated sulfuric acid into the influent stream in amounts sufficient to prevent mineral precipitation in the air stripper and/or the granular activated charcoal units. Acid injection will be adjusted to maintain an effluent pH range of 6.0 to 9.0. PNM will analyze the effluent monthly for sulfate and daily for pH.

OTHER REQUIREMENTS

Please be advised that approval of this discharge plan amendment does not relieve PNM of liability should your operation result in actual pollution of surface or ground water which may be actionable under other laws and/or regulations.

PERIOD OF APPROVAL

This amendment approval expires on January 15, 2000, the same date as the original plan, and you should submit an application for renewal at least 120 days before that date.

If you have any questions, please contact Richard Ohrbom of the Ground Water Pollution Prevention Section staff at 827-0219.

Ron D. Johnson
DP-1006
June 13, 1997
Page 3

Sincerely,



Marcy Leavitt, Chief
Ground Water Quality Bureau

ML/RO/ro

cc: Dan Vigil, Acting District Manager, NMED District I
Gary Richardson, Metric Corporation, 8429 Washington,
Albuquerque, NM 87113



State of New Mexico
ENVIRONMENT DEPARTMENT
Ground Water Protection and Remediation Bureau

Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-2918 phone
(505) 827-2965 fax

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

GARY E. JOHNSON
GOVERNOR

CERTIFIED MAIL - RETURN RECEIPT

P 594 832 632

March 25, 1996

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Sent to	Mr. Ron Johnson, Senior
Special Name	Environmental Scientist
Post Office, State, & ZIP Code	PNM Alvarado Square MS 0408 Albuquerque, New Mexico 87158
Postage	\$
Certified Fee	

Ron D. Johnson, Sr. Environmental Scientist
Public Service Company of New Mexico
Alvarado Square MS 0408
Albuquerque, NM 87158

RE: DISCHARGE PLAN AMENDMENT APPROVAL, DP-1006, PNM PERSON STATION

Dear Mr. Johnson:

Pursuant to Water Quality Control Commission (WQCC) Reg. 3109, the application for amendment for DP-1006, submitted by you for the amendment to the approved treatment and disposal system at PNM's Person Station is hereby approved, subject to the specific requirement listed below. The discharge plan was approved on January 15, 1995. The facility is located in Albuquerque's South Valley at the intersection of Rio Bravo and Broadway in Section 4, T9N, R3E, Bernalillo County. In approving this discharge plan amendment, the New Mexico Environment Department (NMED) has determined that the requirements of WQCC Reg. 3109.C have been met.

The approved discharge plan for the PNM Person Station is briefly described as follows:

Ground water below the PNM Person Station contaminated with 1,1,2, Tetrachloroethylene (PCE), 1,1 Dichloroethylene (1,1-DCE), and 1,1,1 Trichloroethane (1,1,1-TCA) is recovered and treated through an air stripper and thence through a liquid-phase carbon absorption system to reduce each of the above VOC's to concentration levels not to exceed 5 parts per billion. Treated water is pumped to the University of New Mexico's South Golf Course and discharged to two synthetically-lined irrigation storage lagoons located on the golf course. Treated water from PNM's Person Station is commingled with

Ron D. Johnson
DP-1006
March 25, 1996
Page 3

If you have any questions, please contact Richard Ohrbom of the
Ground Water Pollution Prevention Section staff at 827-0219.

Sincerely,



Marcy Leavitt, Chief
Ground Water Quality Bureau

ML/RO/ro

cc: Garth Graves, District Manager, NMED District I
Gary Richardson, Metric Corporation, 8429 Washington,
Albuquerque, NM 87113



GARY E. JOHNSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Ground Water Protection and Remediation Bureau

Harold Runnels Building
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(505) 827-2965 fax



MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

CERTIFIED MAIL - RETURN RECEIPT R

P 594 832 560

November 7, 1995

Jeff Sterba Sr., Vice President
Public Service Company of New Mexico
Alvarado Square
Albuquerque, NM 87158

US Postal Service
Receipt for Certified Mail
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Sent to	DP-1006
Street & Number	117195
Post Office, State, & ZIP Code	
Postage	\$

RE: AMENDMENT APPROVAL, DISCHARGE PLAN, DP-1006, PERSON STATION

Dear Mr. Sterba:

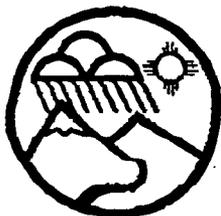
Pursuant to Water Quality Control Commission (WQCC) Reg. 3-109, the application for discharge plan amendment for DP-1006, submitted by Ron D. Johnson for the changes to the approved treatment and disposal system of PNM's Person Generating Station is hereby approved. The discharge plan was approved on January 15, 1995. The facility is located in Albuquerque's South Valley at the intersection of Broadway and Rio Bravo in Section 4, T9N, R3E, Bernalillo County. In approving this discharge plan amendment, the New Mexico Environment Department (NMED) has determined that the requirements of WQCC Reg. 3-109.C have been met.

The approved amendment to the treatment and disposal system at PNM's Person Generating Station is briefly described as follows:

Three PNM monitor wells (PSMW 24, 25, and 26) located near the eastern extent of the Person Station's chlorinated hydrocarbon (VOC) contaminant plume and well EW-1, located between the two current extraction wells PSMW-16 and VEW, will be used to extract contaminated ground water from additional areas within the contaminant plume. The location of these four additional extraction wells was determined based on the evaluation of the radius of capture for the existing extraction wells PSMW-16 and VEW. The additional extraction wells will not result in the discharge of water beyond the 288,000 gallons per day approved in DP-1006. Depth to water below the site is approximately 265 feet and contains a total dissolved concentration of approximately 250 milligrams per liter.

CERTIFIED MAIL - RETURN RECEIPT

Z 688 020 979



STATE OF NEW MEXICO ENVIRONMENT DEPARTMENT

January 15, 1995

Jeff Sterba, Senior Vice President
Power Supply Resources
Public Service Company of New Mexico
Alvarado Square
Albuquerque, NM 87158



Receipt for Certified Mail

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Form with fields: Sent to (DP-1006), Street and No. (1/15/95), P.O., State and ZIP/Code, Postage (\$)

RE: Discharge Plan Approval, Person Station, DP-1006

Dear Mr. Sterba:

Pursuant to Water Quality Control Commission (WQCC) Reg. 3-109, the discharge plan application for DP-1006, submitted by Jerry Godwin for the discharge of 288,000 gallons per day of treated ground water from the Person Generating Station is hereby approved. The facility is located in the City of Albuquerque's South Valley in Section 4, T9N, R3E, Bernalillo County. In approving this discharge plan, the New Mexico Environment Department (NMED) has determined that the requirements of WQCC Reg. 3-109.C have been met.

The approved Person Generating Station treatment and disposal system is briefly described as follows:

Ground water below the Person Station contaminated with 1,1,2,2 Tetrachloroethylene (PCE), 1,1 Dichloroethylene (1,1-DCE), and 1,1,1 Trichloroethane (1,1,1-TCA) will be recovered and treated through an air stripper and thence through a liquid-phase carbon absorption system to reduce each of the above VOC's to concentration levels not to exceed 5 parts per billion. Treated water will be pumped via pipeline to the University of New Mexico's South Golf Course and discharged to two synthetically-lined irrigation storage lagoons located on the golf course. Treated water from PNM's Person Station will constitute between 5 and 10 per cent of the water stored in the lagoons. Stored water will be applied to the golf course by spray irrigation.

Gary Johnson
Governor

Mark Weidner
Secretary

Harold Runnels Building
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502
(505) 827-2850
FAX (505) 827-2836

The approved discharge plan consists of the materials and letters submitted by PNM and Metric Corporation dated June 13, September 14, October 26, and November 30, 1994. The

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Page 2

discharge shall be managed in accordance with the approved plan and is subject to the conditions listed below.

However, approval of this discharge plan does not relieve you of your responsibility to comply with any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

CONDITIONS FOR APPROVAL

This discharge plan approval is subject to the following conditions for the following reasons:

1. PNM shall monitor the influent and effluent daily for the VOC's listed above using EPA methods 601/8010 for the first week after remediation commences, thence weekly for four weeks, and then monthly thereafter. Beginning with the initial monthly sampling, and monthly thereafter, PNM shall also sample the two irrigation lagoons at the UNM golf course and analyze for the above VOC's. Monthly reports shall be submitted to the Ground Water Section quarterly by February 15, May 15, August 15, and November 15 of each year. PNM shall copy monitor reports to: Terri Davis, NMED Hazardous & Radioactive Materials Bureau.

The reason for this condition is to comply with § 3-109.C.3.c.(2) and 3-107 of the WQCC regulations.

2. PNM shall obtain a 24 hour composite sample of the effluent during the first week of discharging and analyze the sample for Manganese, Iron, Sulfate, Chloride, Nitrate as nitrogen, and TDS. If any of the above parameters exceed WQCC standards, PNM shall cease discharging until the treatment system is modified such that the parameters exceeding WQCC standards are treated to below WQCC standards.

The reason for this condition is to comply with WQCC regulation 3-103.

SPECIFIC REQUIREMENTS

The terms and conditions of this approval contain specific requirements which are summarized below.

1. PNM will treat up to 288,000 gallons per day of VOC contaminated ground water from below their Person

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Generating Station through an air stripper and liquid phase carbon absorption system.

2. PNM will pump treated ground water to the UNM South Golf Course for spray irrigation of approximately 100 acres as specified in PNM's "PIPELINE CONSTRUCTION AND WATER SUPPLY AGREEMENT" with UNM dated October 27, 1994.
3. PNM will monitor and report as follows:
 - a) Record monthly effluent volumes discharged to the golf course using a totalizing flow meter. Records will be submitted with the quarterly reports.
 - b) Sample and report as outlined in conditions # 1 and 2 under CONDITIONS FOR APPROVAL above.
4. If any portion of the treatment and/or delivery system fails to decrease contaminant concentrations to 5 parts per billion or less and/or deliver effluent to the golf course, PNM will shut down the recovery wells and not reactivate until the problems are corrected and contaminant levels are below requirements.
5. After cessation of operations PNM will close the facility as described in section 19 in their discharge plan application.

GENERAL DISCHARGE PLAN REQUIREMENTS

In addition to any other requirements provided by law, approval of discharge plan, DP-1006, is subject to the following general requirements:

Monitoring and Reporting

Monitoring and reporting shall be as specified in the discharge plan and supplements thereto. These requirements are summarized on the attached sheet(s). Any inadvertent omissions from this summary of a discharge plan monitoring or reporting requirement shall not relieve you of responsibility for compliance with that requirement.

Record Keeping

1. The discharger shall maintain at the facility, a written

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record of ground water and waste water quality analyses.

The following information shall be recorded and shall be made available to the NMED upon request.

- a. The dates, exact place and times of sampling or field measurements.
 - b. The name and job title of the individuals who performed the sampling or measurements.
 - c. The dates the analyses were performed.
 - d. The name and job title of the individuals who performed the analyses.
 - e. The analytical techniques or methods used.
 - f. The results of such analyses, and
 - g. The results of any split sampling, spikes or repeat sampling.
2. The discharger shall maintain a written record of any spills, seeps, and/or leaks of effluent, leachate and/or process fluids not authorized by this discharge plan.
3. The discharger shall maintain a written record of the operation, maintenance and repair of facilities/equipment used to treat, store and/or dispose of waste water; to measure flow rates; and/or to monitor water quality. This will include repairs, replacement or calibration of any monitoring equipment and repairs or replacement of any equipment used in the Person Generating Station remediation system.
4. The discharger shall maintain a written record of the amount of effluent discharges to the UNM Golf Course.

Inspection and Entry

In accordance with § 74-6-9.B & E NMSA 1978 and WQCC Reg. 3-107.D., the discharger shall allow the Secretary or her authorized representative, upon the presentation of credentials, to:

1. Enter at regular business hours or at other reasonable times upon the discharger's premises or where records must be kept under the conditions of this discharge plan.

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2. Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of the discharge plan.

3. Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment), practices or operations regulated or required under this discharge plan.

4. Sample or monitor, at reasonable times for the purpose of assuring discharge plan compliance or as otherwise authorized by the New Mexico Water Quality Act, any effluent at any location before or after discharge.

Duty to Provide Information

In accordance with § 74-6-9.B NMSA 1978 and WQCC Reg. 3-107.D., the discharger shall furnish to the NMED, within a reasonable time, any relevant information which it may request to determine whether cause exists for modifying, terminating and/or renewing this discharge plan or to determine compliance with this plan. The discharger shall furnish to the NMED, upon request, copies of records required to be kept by this discharge plan.

Spills, Leaks and Other Unauthorized Discharges

This approval authorizes only those discharges specified in the discharge plan. Any unauthorized discharges violate WQCC Reg. 3-104, and must be reported to the NMED and remediated as required by WQCC Reg. 1-203. This requirement applies to all seeps, spills, and/or leaks discovered from the Person Generating Station remediation system.

Retention of Records

The discharger shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this discharge plan, and records of all data used to complete the application for this discharge plan, for a period of at least five years from the date of the sample collection, measurement, report or application. This period may be extended by request of the Secretary at any time.

Enforcement

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Failure to grant the Secretary or her authorized representative access to the records required to be kept by this discharge plan or to allow an inspection of the discharge facilities or to the collection of samples is a violation of this discharge plan and the WQCC Regulations. Such violations as well as other violations of the discharge plan, may subject the discharger to a compliance order, a compliance order assessing a civil penalty or an action in district court pursuant to § 74-6-10 NMSA 1978, and/or modification or termination of this discharge plan pursuant to § 74-6-5.L NMSA 1978. Penalties assessed as part of a compliance order shall not exceed \$15,000 per day for violations of the terms of this permit or the requirements of § 74-6-5 NMSA 1978, and shall not exceed \$10,000 per day for violations of other sections of the Water Quality Act.

Modifications and/or Amendments

The discharger shall notify NMED, pursuant to WQCC Regs. 3-107.C, of any modifications or additions to the Person Generating Station's remediation system, including any increase in waste water flow rate or waste water storage and disposal management changes to the system as approved under this discharge plan. The discharger shall obtain NMED's approval, as a discharge plan modification, prior to any increase in the quantity or concentration of constituents in the leachate above those approved in this plan. Please note that WQCC Regs. 3-109.E and F provide for possible future amendment of the plan.

Other Requirements

Please be advised that the approval of this plan does not relieve PNM of liability should your operation result in actual pollution of surface or ground water which may be actionable under other laws and/or regulations.

RIGHT TO APPEAL

If PNM is dissatisfied with this action taken by NMED, PNM may file a petition for hearing before the WQCC. This petition shall be in writing to the Water Quality Control Commission within thirty (30) days of the receipt of this letter. Unless a timely request for hearing is made, the decision of the NMED shall be final.