

*Olga*

ORRES. CONTROL  
OUTGOING LTR NO.

# EG&G ROCKY FLATS

71RF1262

EG&G ROCKY FLATS, INC.  
ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

DIST.	APR	EMC
HOFF, F.H.		
LETZKE, J.C.		
IRLINGAME, J.M.		
OUCHER, D.W.		
VIS, J.G.		
ERED, J.E.	XX	XX
RRERA, D.W.		
RRERA, K.P.		
RRIS, L.A.		
AIKOR, E.J.		
ANCIS, G.E.	XX	XX
ODWIN, R.		
ALY, T.		
AKER, E.H.		
VS, J.P.		
RSH, J.M.	XX	XX
IBY, W.A.		
KEBO, J.A.		
E, E.M.	XX	XX
ESTIC, I.R.		
DANIEL, M.G.		
URRENS, B.E.		
NTROSS, R.W.		
EGAN, R.V.	XX	XX
RTH, P.		
MES, L.A.		
NEILL, G.E.		
FER, G.	XX	XX
ROO, V.H.		
DARRE, H.	XX	XX
FEEL, B.F.		
ANNON, W.M.		
ANSON, E.R.		
EE, J.S.		
KINSON, R.B.		
SCN, J.M.		
JNG, E.R.		
IE, J.C.	XX	XX
WERT, A.L.	XX	XX
RCH, P.W.	XX	XX
TE, R.G.	XX	XX
URCH, A.A.	XX	XX
STRE, C.D.	XX	XX
DAIGH, J.A.	XX	XX
HEWLEE, W.	XX	XX

March 8, 1991

91-RF-1262

Robert M. Nelson, Jr.  
Manager  
DOE, RFO



000030743

Attn: J. Kiefer

## TREATABILITY STUDY ANNUAL REPORT

Enclosed is a draft letter to the Colorado Department of Health (CDH) which transmits information (also provided) complying with the annual reporting requirements of the treatability study exemption regulations contained within 6 CCR 1007-3, Section 261.4 (f)(10). This information must be provided to CDH no later than March 15, 1991.

If you have any questions or require additional information, please call Allen Schubert at extension 5251 or Kyle Peter at extension 6345.

*J.M. Kersh*  
J.M. Kersh, Associate General Manager  
Environmental Restoration & Waste Management

KGP:dkf

Orig. and 1 cc - R.M. Nelson, Jr.

Enclosures:  
As Stated

RES CONTROL XX  
FFC  
ADM TRAC XX

CLASSIFICATION:  
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SECRET

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3/8/91

REPLY TO LTR NO.  
NONE

APPROVALS:  
JE - [Signature]  
S - [Signature]  
G & TYPIST INITIALS  
TR, A.K. FARMER

DOCUMENT CLASSIFICATION  
REVIEW REQUIRED PER  
CLASSIFICATION OFFICE

ADMIN RECORD

Enclosure 1  
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DRAFT

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Gary W. Baughman, Unit Leader  
Hazardous Materials and Waste  
Management Division  
Colorado Department of Health  
4210 East 11th Avenue  
Denver, Colorado 80220

Dear Mr. Baughman:

In accordance with the treatability study exemption regulations of the Colorado Department of Health contained in 6 CCR 1007-3, Section 261.4 (f)(10), the enclosed information is submitted to satisfy the annual reporting requirements for the treatability studies conducted at the Rocky Flats Plant. During calendar year 1990, treatability studies using microwave solidification and cementation were performed on simulated (nonradioactive) 774 precipitation sludge. Microwave solidification of pondcrete was also studied during 1990.

If you have any questions concerning the attached information, please contact Jim Kiefer of my staff at 966-5924 or Allen Schubert of EG&G Rocky Flats, Inc. at 966-5251.

## ANNUAL REPORTING REQUIREMENT FOR TREATABILITY STUDIES

In accordance with 6 CCR 1007-3 261.4 (f)(10), the following information is provided in order to satisfy the annual reporting requirement for treatability studies.

1. Estimate of the number of studies and the amount of waste expected to be used in treatability studies during the current year:

Treatability studies will be conducted as follows during the current year, 1991.

<u>Test (Number of tests)</u>	<u>Amount (Kg)</u>
A. Microwave solidification	
1. Simulated precipitation sludge (5)	500
2. Pondcrete (5)	1000
3. Nitrate salts (5)	500
B. Cyanide destruction using electrochemical chlorination on spent plating waste (1)	240
C. Immobilization (cement/fly ash) of simulated precipitation sludge (5)	20

2. Name, address, and EPA identification number of the facility conducting the treatability studies: (NOTE: The treatability studies were conducted for the Rocky Flats Plant.)

Rocky Flats Plant  
P.O. Box 464  
Golden, Colorado 80402-0464  
EPA ID Number: CO7890010526

3. The types (by process) of treatability studies conducted:

The types of treatability studies conducted were microwave solidification and cementation.

4. The total quantity of waste in storage each day:

All waste was collected on the day of the treatability test. Therefore, the only waste in storage was that which was generated as a result of the treatment process. On

January 16, 1990, there was 3kg of waste in storage. This increased to 3.3kg on January 17 and continued until March 1, 1990, when 1.05kg was added, resulting in a total of 4.35kg. Another 0.31kg was added on March 8, 1990, for a total of 4.66kg. This amount is currently stored in a satellite accumulation area.

**5. The quantity and types of waste subjected to treatability studies (including dates):**

- a. There were 3 kilograms of simulated precipitation sludge microwaved on January 16, 1990.
- b. There were 300 grams of simulated precipitation sludge mixed with portland cement on January 17, 1990.
- c. There were 1500 grams of simulated precipitation sludge microwaved on March 1, 1990.
- d. There were 310 grams of pondcrete microwaved on March 8, 1990.

**6. The final disposition of residues and unused sample from each treatability study:**

As mentioned in the foregoing, all of the residues remain in a satellite accumulation area.

**7. A summary of spills or releases of waste material to the environment:**

There were no spills or releases of waste material to the environment.