

00045358

CORRES. CONTROL
OUTGOING LTR NO.

EG&G ROCKY FLATS

DOE ORDER# 4700.1
94 RF 10618

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

DIST.	INITIALS
AMARAL, M.E.	
BURLINGAME, A.H.	
BUSBY, W.S.	
BRANCH, D.B.	
CARNIVAL, G.J.	
DAVIS, J.G.	
FERRERA, D.W.	
FRAY, R.E.	
GEIS, J.A.	
GLOVER, W.S.	
GOLAN, P.M.	
HANNI, B.J.	
HARMAN, L.K.	
HEALY, T.J.	
HEDAHL, T.	
HILBIG, J.G.	
HUTCHINS, N.M.	
JACKSON, D.T.	
KELL, R.E.	
KUESTER, A.W.	
MARX, G.E.	
McDONALD, M.M.	
McKENNA, F.G.	
MONTROSE, J.K.	
MORGAN, R.V.	
POTTER, G.L.	
PIZZUTO, V.M.	
RISING, T.L.	
SANDLIN, N.B.	
SCHWARTZ, J.K.	
SETLOCK, G.H.	
STEWART, D.L.	
STIGER, S.G.	X

October 18, 1994

94-RF-10618

Jessie M. Roberson
Acting Assistant Manager
Environmental Restoration
DOE, RFFO

Attn: N. I. Castaneda, S. R. Grace

SITE-SPECIFIC FACTORS AND THEIR USE IN THE EXPOSURE SCENARIO TECHNICAL MEMORANDUM AT OPERABLE UNIT TWO - SGS-556-94

Action: Meeting, at your earliest convenience, to discuss proposal.

On September 22, 1994, EG&G Rocky Flats, Inc., subcontractor delivered a draft of site-specific or literature-based exposure factors. After an internal review it was decided that, because of the importance of the exposure factors and possible problems identified during the review, the factors should be peer reviewed. Arrangements were made with the Hazardous Waste Remedial Action Program (HAZRAP) at Oak Ridge, ICF Kaiser, Woodward-Clyde Federal Services, and the University Consortium to have senior toxicologists and risk assessment personnel complete a peer review of the draft exposure factors.

A meeting was held with the Department of Energy (DOE) on September 23, 1994 to discuss the use of site-specific exposure factors at Operable Unit Two (OU 2). It was decided at this meeting that the delivery date for the Exposure Scenario Technical Memorandum (ESTM) for OU 2 could be delayed two weeks to allow for the peer review.

The peer review has been received and reviewed. Overall the peer review did not support the use of nondefault parameters for the reasonable maximum exposure (RME) estimates for use in the baseline risk assessment. Also, the methodology used in the selection of some of the nondefault values presented in the site-specific exposure factor document were questioned.

It is the opinion of EG&G that the site-specific factor document cannot be used in the form it was presented. A modified strategy for using site-specific factors should be agreed upon. Until this strategy is decided, the delivery date for the ESTM should be deferred. The ESTM is currently complete, except for incorporation of the exposure factors. The delivery milestone of May 30, 1995 for the draft final Resource Conservation Recovery Act (RCRA) Facility Investigation/ Remedial Investigation (RFI/RI) Report will not be affected.

The following modified strategy for the use of site-specific or literature-base exposure factors is proposed by EG&G:

1. Use RME default values for the RME scenario, when they exist.
2. Develop a site-specific value when no default exists.
3. Use chemical specific values, whenever possible, for factors such as the matrix effect in gastro intestinal tract and the skin absorption factor.

Busby, W.S.	X
Chronick, F.W.	X
Lawrin, P.J.	X
Mast, E.C.	X
Peterman, B.D.	X
Primrose, A.L.	X
Roberts, R.S.	X
CORRES. CONTROL	X
ADMIN RECORD/080	X
TRAFFIC	
PATS/T130G	

CLASSIFICATION:	
UCNI	
UNCLASSIFIED	
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER
SIGNATURE
DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO:
N/A

ACTION ITEM STATUS
 PARTIAL/OPEN
 CLOSED
LTR APPROVALS:

ORIG & TYPIST INITIALS
FWC:crw

J. M. Roberson
October 18, 1994
94-RF-10618
Page 2

4. Use all site-specific or literature-base values for the factors to be used to calculate the Central Tendency (CT) risk estimates.
5. Perform quantitative uncertainty analysis on risk driving pathways with risks greater than 10^{-4} .

This approach will define the uncertainty in the RME risk estimates, present a wide range in risk between the RME and CT estimate, and lay the foundation for negotiating cleanup levels not entirely based on RME estimates of risk.

The strategy for using site-specific factors needs to be agreed upon quickly so that the Remedial Investigation Report delivery date is not affected. We request a meeting to discuss the above proposal as soon as possible. Please contact Win Chromeck at extension 8641, Pete Laurin at extension 8702, or Rick Roberts at extension 8508 to arrange a meeting.



S. G. Stiger, Director
Environmental Restoration
Program Division
EG&G Rocky Flats, Inc.

FWC:crw

Orig. and 1 cc - J. M. Roberson

cc:
M. N. Silverman - DOE, RFFO