

# **Department of Energy**

Washington, DC 20585

QA: QA

## APR 24 2003

MEMORANDUM FOR: Mark R. Arenaz, DOE/ID

FROM:

R. Dennis Brown, Director

Office of Quality Assurance

SUBJECT:

Verification of Corrective Action and Closure of Deficiency Report

(DR) EM(O)-03-D-006 Resulting From Not Having Implementing Procedures to Control Spent Nuclear Fuel Activities at the National

Spent Nuclear Fuel Program

The Office of Civilian Radioactive Waste Management staff has verified the completion of the corrective actions of DR EM(O)-03-D-006 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either Kerry M. Grooms at (702) 794-1367 or Samuel E. Archuleta at (702) 794-1476.

OQA:KMG-1048

Enclosure:

DR EM(O)-03-D-006

cc w/encl:

C. A. Kouts, DOE/HQ (RW-20E), FORS

N. K. Stablein, NRC, Rockville, MD

Robert Latta, NRC, Las Vegas, NV (2 cys)

S. W. Lynch, State of Nevada, Carson City, NV

L. W. Bradshaw, Nye County, Pahrump, NV

S. E. Archuleta, NQS, Las Vegas, NV

W. J. Glasser, NQS, Las Vegas, NV

D. G. Opielowski, NQS, Las Vegas, NV

B. M. Terrell, DOE/ORD (RW-40W), Las Vegas, NV

# OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY ORIGINAL WASHINGTON, D.C

SRIGINAL MARIE STAMP

Deficiency Report ☐ Corrective Action Report

No EM(0)-03-D-006

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	QA QA
DEFICIENCY REPORT/CORRECTIVE ACTION REPO	
1. Controlling Document (Document ID and Revision or Date) DOE/RW-0333P, Revision 12, Quality Assurance Requirements and Description (QARD)	2. Related Report No · EM-ARC-02-10
3 Responsible Organization National Spent Nuclear Fuel Program (NSNFP)  4 Discussed With Neal MacKay, Chris Dahl, Rob Batte	en
5 Requirement	
QARD, Section V.1 states in part, "This supplement applies to processes and controls for the either exist or are used in an electronic format. This includes electronic formatted data used as design output, or developed as an output of scientific investigation or performance assess	in design input, developed
6. Description of Condition:	
INEEL personnel using the Goth_SNF Software Program routinely transfer electronic files fro a PC and vice versa. The NSNFP does not have process controls in the form of an implement the requirements of Supplement V of the QARD.  Has work been stopped?   Yes  No	
7 Initiator: 9 Does a stop work condition exist?	
Samuel E. Archuleta Charles Charles	
Printed Name Signature Date If Yes, Check One A  10 Recommended Actions	□B □C □D
11. QAR Review (12 Response Due Date	
Printed Name Signature Date  10 Working days after in	ssuance
R. Dennis Brown  Printed Name  Signature	10/17/02 Date
14 Corrective Actions Verified/Closure // 15 QAM Closure Approval	4 1 -1
DAR Printed Name  Signature  Date  Printed Name  Signature  Date  Date  Signature  Signature  Signature  Date  Signature  Signature  Date  Date  Signature  Signature  Signature  Signature  Signature  Signature  Signature	Moura 4/2 <b>3/</b> 03  nature Date  Rev 3/25/02

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RADIOACTIVE W	ASTE MANAGEMENT*	QA:QA
No"   Yes (If yes, submit	MENT OF ENERGY:	
Extended Processing request) WASHII	NGTON, D.C.	
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DEFICIENCY REPORT/CORRECTIV		
4. Extent of Condition: (Amended response will be required documented herein)	If all Extent of Condition investigation	ns are not complete and
The NSNFP technical work that relies on data derived from G hardcopy paper media. Data selected is fully transparent in the Reviews (checking) for accuracy of the information relied on formation relied on f	ne NSNFP Technical Reports providente NSNFP technical reports have be	ed in hardcopy paper media:
hardcopy document review and approval process. None of the design input, NSNFP design output, support for the repository repository performance assessment. The Goth-SNF Software	e information has been provided in e	lectronic format as repository
The NSNFP technical work relying on Goth generated data is	related to analysis of a SNF MCO pa	ackage response to theoretical
breaches. The results of this analysis may be used to help evanalysis is not part of the licensing activity and is not part of the current Repository Safety Case.	aluate RW facility reactions to the ev	ent. This heyond-category-2
5. Impact: (Provide an impact statement relative to waste iso	lation and safety, and impact to othe	r work, if any)
This beyond-category-2 analysis is not part of the licensing ac impact exists that affects the current Repository Safety Case:	tivity and is not part of the Repositor	y Safety Case. Therefore no
	•	
6. Remedial Actions: (Document all actions necessary to add	ress the results of the Extent of Con-	dition)
To eliminate transfers of electronic files from a computer works	station to a PC and vice versa, a sind	ale mass storage device will be
used for the Goth-SNF analysis work.		,
7 Poot Cause (For a significant CAO attach results of to	·	
<ol> <li>Root Cause (For a significant CAQ, attach results of for</li></ol>	imai root cause determination prepa	red in accordance with AP-16.4Q)
Insufficient equipment capacity.	•	
* P		2 - 4
	• .	~~
8. Action to Preclude Recurrence: (Address those actions nec	essary to prevent the identified caus	e from recurring)
NA		
The second secon	- <b>.</b>	~ 3 ·
9. Due Date for Completion of Corrective Action:	10. Responsible Manager	***
January 15, 2003	R. Blyth, NSNFP QAPM	B 12/19/02
11. QAR Evaluation: Accept. Partially Accept. Reject	12. QAM Concurrence:	Date
The state of the s		2.17 7.11
AM & Angice GTA Quelle letter 1-6-03	DENVIS BROWN James B)	morata 1/8/03
Printed Name Date Date	Printed Name Signatu	re(\ Date

AP-16.1Q.9

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#### CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Your initial/complete response dated 12/19/02 is partially accepted. More information/explanation is required.

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Your response, as submitted, adequately addresses one portion of the requirements of Supplement V of the OARD, that of integrity verification and maintaining the accuracy and completeness of information placed onto or modified within an electronic information management system or on electronic media. Further, your explanation pertaining to use of Goth-SNF software adequately clarifies that data generated by that software is not used in work that is part of the Repository Safety Case, and is therefor not subject to Supplement V controls.

However, Supplement V controls address other aspects of the control of electronic information, such as: a) How is information protected from damage or destruction? b) How is access to information on a personal computer controlled? c) When and if backup copies are made, how are they labeled and stored? d) How are electronic media identified? e) What process controls are in place to maintain the security and integrity of information in electronic form?

Recommend a thorough review of the requirements of Supplement V controls be conducted with respect to your work activities that DO support the Repository Safety Case be conducted. If any Supplement V requirements are involved in work which is in support of the QARD, then these activities will have to be covered by procedural controls. Procedural controls may be established in a single procedure, or they may be incorporated into other procedures covering the activities themselves.

An amended response is required within 10 working days of receipt of this document which states that none of the Supplement V requirements are applicable due to the nature of the work not being in support of the Repository Safety Case, or, if there is OARD related work wherein Supplement V requirements are impacted, state what the planned corrective action(s) to address the deficiency will be.

Sam E. Archuleta

QA Representative

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Submittal Page of Control of Cont		ICE OF CIVILIAN E WASTE MANA		1. DR/CAR No EM-ARC-02-10/E	:M(O)-03-D-006
3. Extended Processing ☐ No ☐ Yes (If yes, submit Extended Processing request)	U.S. DEPA	ARTMENT OF ENSHINGTON, D.C.	ERGY	QA QA	
7.5 FD	# फ्रिके रेज	) केवल के एक जिल्लाक के क	•		‡
	REPORT/CORREC				
- Extent of Condition: (Amer documented herein)				·	1
The NSNFP technical work to disseminated in hardcopy pa hardcopy paper media. Revie been performed as part of the provided in electronic format assessment, or as a scientific program has been verified ar	per media. Data select ews (checking) for acci e hardcopy document as repository design in c investigation output for ad validated.	red from Goth SNF sted is fully transpare uracy of the informa review and approve aput, NSNFP design or the repository per	Software Program nt in the NSNFP tion relied on for I process. None o output, support formance assess	has been contr Technical Report NSNFP technical of the information or the repository ment. The Goth	olled and rts provided in al reports have n has been
The NSNFP technical work re theoretical breaches. The re beyond-category-2 analysis in no impact exists that affects t	sults of this analysis m s not part of the licensi the current Repository	ay be used to help on a sectivity and is no Safety Case.	evaluate RW facili t part of the Repo	ty reactions to the sitory Safety Ca	hế évent. This, ase. Therefore
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5. Impact: (Provide an impact s This beyond-category-2 analy Therefore no impact exists th	รีบอักหรือ ประการ์ เชื่อง ysis is not part of the lic	roalistic Almylika censing activity and	्रकृतिकेशः is not part of the I	•	1 75
	to essentant essential. Notice essential			,	*s *
6: Remedial Actions: (Documer				dition)	350 350
The National Spent Nuclear F Supplement V, Control of the	- Fuel Program will devel	op and issue a prod		•	ion 12
		*	Ł		
<ol> <li>Root Cause (For a signifi Apparent Cause</li> </ol>	cant CAQ, attach results		letermination prepa	red in accordance	with AP-16.4Q)
Insufficient equipment capacit	ty.				·
					1
8. Action to Preclude Recurrence	e: (Address those action	s necessary to prever	t the identified caus	se from recurring)	

9. Due Date for Completion of Corrective Action:

10. Responsible Manager

March 31, 2003

NA

Robert Blyth, NSNFP CAPA Printed Name 2/10/02 Date

11. QAR Evaluation: MAccept Partially Accept Reject

SEEVACUATES TORS CAMPICANCE!

COUNTY COUNTY OF 120/03

12. QAM Concurrence:

SAME ARCHUIETA

Printed Name

Signature

2/20/03 Date DENNIS BROWN
Printed Name

James Blughal

Signature

2/25/03

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# OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

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### **CONDITION ADVERSE TO QUALITY CONTINUATION PAGE**

Your amended complete response dated 2/10/03 is accepted. The expected completion date falls well beyond the procedurally controlled corrective action time period of 100 days, however. A request for extended processing is required.

Sam E. Archuleta

QA Representative

*HEUIO* Date

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2. Submittal Page 1 of 1  OFFICE OF CIVILIAN  RADIOACTIVE WASTE MANAGEMENT  U.S. DEPARTMENT OF ENERGY  WASHINGTON, D.C.  O.O. MOTOMINALY	1. DR/CAR NO: EM-ARC-02- 10/EM(O)-03-D-006 PAGE _1_OF_1 QA: QA
REQUEST FOR EXTENDED PROCESSING	
3. Extended Actions: (Identify those corrective actions planned for completion beyond 100 days	from issuance of the DR/CAR)
Develop and issue a NSNFP procedure(s) to address QARD Revision 12 Supplement V (Contro Data), as listed in Block 6 of the revised response for EM-ARC-02-10/EM(O)-03-D-006, dated 2/  Expected Completion Date: April 11, 2003	of the Electronic Management of: 10/03.
4. Justification: (Provide an explanation as to why the required actions cannot be completed wit	hin 100 days)
Extension time is required to define the required changes, develop the appropriate subject proce NSNFP reviews prior to issue. The extension time requested includes time to assemble and tran OQA approval.	nsmit a closure package for RW
5. Impact: (Provide an impact statement to indicate what affect not completing within 100 days vand safety, and impact to other work, if any)	vill have relative to waste isolation
None. This beyond-category-2 analysis is not part of the licensing activity and is not part of the R no impacts exist that affects the current Repository Safety Case.	epository Safety Case. Therefore
·	

Approvals			
6. Responsible Manager:		7. Senior Manager:	
D. A. Armour A A Signature	2-25-03 Date	R. L. Blyth Printed Name Signature	7/75/83 Date
8. DOE Project Management Printed Name Signature	3-24-03 Date	9. DOQA:  Manufam RDenni Brim  Printed Name  Signature	3/19/03
10. Director, OCRWM (required for schedul	ed completion dates		
Printed Name	Signatu	<i>N/A</i>	Date

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#### **CONDITION ADVERSE TO QUALITY CONTINUATION PAGE**

Verification of corrective action commitments was completed on 4/10/2003.

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The initial response to this deficiency indicated a cause of "insufficient equipment capacity" and a remedial action plan to use a mass storage device to preclude the need for information transfers during the use of Goth-SNF. Subsequently, we concurred with the National Spent Nuclear Fuel Program (NSNFP) position that the use of Goth-SNF did not involve any work in support of the Repository Safety Case, and therefore was not subject to Quality Assurance Requirements and Description (QARD) requirements. The corrective action described below does not address the original cause because such cause was set aside during investigation of the extent of condition for this deficiency. Similarly, the original remedial action plan is set aside due to nonapplicability.

Recognizing the possibility of a need for control of electronic information management, the NSNFP elected to develop a procedure to be used in such circumstances, and committed to development of a procedure. The procedure was developed and signed on 3/31/03. Verified the issuance of PSO 19.01/Rev 0, CONTROL OF THE ELECTRONIC MANAGEMENT OF INFORMATION, with an effective date of 04/02/2003. Reviewed the procedure for compliance with Supplement V of the QARD. The procedure provides process controls which appear to be very adequate to achieve the controls prescribed by Supplement V. The process has been tailored to respond to current business practices of the NSNFP. Implementation of these process controls can be assessed in future audits and/or surveillances.

IMPACT: Concur with the NSNFP Quality Assurance Program Manager assessment that "this beyond-category-2 analysis is not part of the licensing activity and is not part of the Repository Safety Case," and as such, "...no impact exists that affects the current Repository Safety Case."

Based upon the adequacy of process controls described in the above-referenced procedure, the corrective actions taken are adequate and appropriate. Recommend closure of this DR at this time.

Sam E. Archuleta QA Representative Date

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