

#### **Department of Energy**

Washington, DC 20585

APR 03 2002

QA: QA

P. R. Dixon, Laboratory Lead Los Alamos National Laboratory University of California P.O. Box 1663 Los Alamos, NM 87545

VERIFICATION OF CORRECTIVE ACTIONS AND CLOSURE OF DEFICIENCY REPORT (DR) BSC-02-D-058

The Office of Quality Assurance staff has evaluated the corrective actions of DR BSC-02-D-058 and determined the results to be satisfactory. As a result, the DR is considered closed.

If you have any questions, please contact either James Blaylock at (702) 794-1420 or Samuel E. Archuleta at (702) 794-1476.

OQA:JB-0898

Enclosure: DR BSC-02-D-058

Ram Murthy, Acting Director
Office of Quality Assurance



NMSSON

#### cc w/encl:

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# OFFICE OF CIVILIAN

8. DEFICIENCY REPORT
CORRECTIVE ACTION
REPORT NO. BSC-02-D-058
PAGE 1 OF

RADIOACTIVE WASTE MANAGEMENT REPORT			
U.S. DEPARTMENT OF ENERGY			NO. BSC-02-D-058
WASH	INGTON, D.C.		PAGE 1 OF
			QA: LOA
DEFICIENCY/CORF	RECTIVE ACTION RE	PORT	060 11102
1. Controlling Document:		2. Related R	Report No.:
AP-SI.1Q REV 03 ICN 2		N/A	
	. Discussed With:		
Performance Assessment/Natural Barriers/Biosphere	R. Andrews, W. Watson, S. S.	plawn, J. M	ason
5. Requirement: Section 5.11, Defect Reporting and Resolution, of the contro a software item that is subject to software management the ajidentify the time requirements for reporting/corrective action	ppropriate steps are performe	equires that d. The proc	upon discovery of a defect in cedure, however, does not
6. Description of Condition: Software defect in GENII-S V1.4.8.5, related to the way the reported until about 6 months after the initial discovery. Alt between the time of the defect dicovery and the time of report of the software, it was determined that the response time was The preliminary impact analysis conducted upon the defect	though the software was not uting, and the organization/greactions. The software was	ised in any o oup that fou s used to get	quality affecting activities and the defect is the sole user nerate input for the TSPA-SR.
results.		والمناب والألاث	(Alabaminal for a DD)
7. Initiator: Maryla A. Wasiolek  Date 1/3/02	9. Does a stop work col Yes No If Yes, Check One:	naition exist?	Not required for a DR)
10. Recommended Actions:			·
11. DA Review	12. Response Due Date	e:	
Date 1-16-02	10 working	days fro	om issuance
13. DOQA Issuance Approval:	RO.	L l . 1.	Date 1/29/c Z
22 Company Assistant Viscotia	nature James Dymy  23. Closure Approved to	ov:	Date
OAR CHOOS VERMINE 3/25/09	2 DOQA Jone B	longlock	h Date 4/2/02
Exhibit AP-16.1Q.1		ر)	Rev. 12/20/1999

15 of			منبر	
TYPE RESPONSE:	OFFICE O	OF CIVILIAN		DR/CAR NO.
X Initial	RADIOACTIVE WA		IENT	BSC-02-D-058
☐ Complete		ENT OF ENERG		PAGE OF
☐ Amended		GTON, D.C.	•	QA: QA
	WASHING	310N, D.C.		
14a. Immediate Action	DEFICIENCY/CORRECTIV	E ACTION REPO	RT (RESPONS	Ε)
No actions needed. A	s. Software Defect Notice (SDN) for the . All actions specified in AP-SI.1Q Re	problems observed wit v 3, Section 5.11 have	th the GENII-S V.1. been completed.	4.8.5 was submitted on an
Compliance Date: 12	2/06/01			,
14. Remedial Actions: Any remedial actions in determination describe	n addition to the Immediate Action des d below. These remedial actions will l	cribed above will be ba	ased on the findings implete Response t	s from the Extent of Condition this deficiency report (DR).
submitted since the cureview will consist of co (SDN form, Block 8). T established based on t and with the concurren Completion Date: Management of Management of Management of Management of Submitted Submit		s in place will be deter tered (SDN form Block e reviewed for reasonard on the judgement of ew will be submitted to	mined. These SDN (5) with the date the bleness. Reasona select users and Ir of the QAR for verification.	s will be reviewed. The e SDN is submitted to SCM bleness criteria will be nformation Compliance staff cation.
The cause of this def will be described in the	sults of root cause determination preparicient condition will be based on the Complete Response to this DR. and incident, the cause of this single	e findings from the d If the review describ	etermination of the	le Extent of Condition and dicates that this deficient
17. Action to Preclude Actions to Preclude F Response to this DR.	Recurrence will be based on the de	termined cause(s) a	nd will be detailed	l in the Complete
18. Due Date: March 29	9, 2002	19. Response by A	nthony Smith	www _ 1 a
x For submittal of o ☐ For completion	·		クノゴ	QTK for DE
		RF (1)	Date: February	13, 2002 Phone. 5-7773

21. Concurrence:

20. Evaluation: SAccept | Partially Accept | Reject

Exhibit AP-16.1Q.1

Date 2/27/02 Rev. 12/20/1999

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TYPE RESPONSE:  Initial  Complete  Amended	OFFICE OF CIVILIAN  RADIOACTIVE WASTE MANAGEMEN  U.S. DEPARTMENT OF ENERGY  WASHINGTON D.C.	DR/CAR NO. BSC-02-D-058 PAGE 1 OF 2 QA: QA
14a. Immediate Actions:  14. Remedial Actions: B this deficiency in timely	ased on the extent of condition determination discussed in Sec	
included all SDNs not cr limited management stan (Revision 3) to AP-SI-10 current situation. Seven	nducted on February 21, 2002 with the assistance of Jeff Maso eated by SCM that were submitted since April 1, 2001. That of d-down of software development on June 7, 2001; and 2) it is Q. Review of attention to software error reporting prior to that such SDNs exist to date. The date of encountering each softw (item 8) were compared. The findings of this review are included	date was selected because: 1) it is prior to the the effective date of a significant change time is considered to likely not reflect the are error or defect (SDN item 5) and the date
The three personnel invo TrainServe, these three s training on AP-SI.1Q sho	f untimely submittal of potential errors or defects in the GENI to this requirement in AP-SI.1Q by the personnel involved in lived had last attended training on AP-SI.1Q on June 23, 2000, taff members (Anthony Smith, De (Wesley) Wu, and Maryla Vortly after the untimely SDN submittal on December 6, 2001.	this software activity.  per TrainServe. Also, according to Vasiolek) received updated and refresher
assure the Biosphere procedure AP-SI.1Q     Department Manage	Recurrence: Based on the cause of this deficiency, the follow of personnel involved in software use (other than off-the-shelf per that requires software defect reporting, or brief the involved Biosphere personnel regarding this deficient reiterate to involved Biosphere personnel the need for verbation page)	rograms) are trained to a version of ncy and its resolution, and
► For submittal of c	2002 MARCH 15, 2002  omplete response  f corrective ACTIEN ANT 31.5 161	Date: OF Phone: 295-4040

21. Concurrence:

20. Evaluation: Accept Partially Accept Reject

QARA

Exhibit AP-16.1Q.1

Rev. 12/20/1999

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

. ⊠DR/CAI ☐ Stop W	R Vork Order
NO. BSC	-XX-D-YYY
PAGE	1 OF <u>2</u> <b>QA: QA</b>

#### DEFICIENCY/CORRECTIVE ACTION REPORT/STOP WORK ORDER CONTINUATION PAGE

#### Item 15 (Continued)

Findings of the SDNs Review:

SDN Number	Software	Organization	Time from Encountering to Submittal (work days)
SDN008220010625	WAPDEG v 4.0	Waste Package	1
SDN001120010524	RoutineRick 1 v1.0	LBNL	0
SDN008920010727	WAPDEG v4.0	Waste Package	3
SDN009320011012	Radpro v 3.22	LLNL	19
SDN009420011221	GENII-S v1.4.8.5	Biosphere	~109
SDN009520011221	GENII-S v1.4.8.5	Biosphere	42 (see note)
SDN009620011221	GENII-S v1.4.8.5	Biosphere	3

Note: The 42 and 109-day time interval SDNs were submitted on the same day, December 6, 2001.

The review of all pertinent SDNs issued to date finds that this deficiency is effectively limited to the Biosphere Department. A trend is not indicated. In addition, based on the findings from the extent of condition determination, the impact of this deficiency is limited to the Biosphere Department and to these two codes. No other groups or staff members have used these codes. Actions beyond this group are not warranted based on the extent of condition

#### Item 16 (Continued)

.This situation does not warrant performance of a root cause determination in accordance with AP-16.4Q. The cause analysis and results presented above are sufficient. Consideration of the pertinent procedures concludes:

- 1) the conditions specified in AP-16.1Q, Management of Conditions Adverse to Quality, for performing a root cause determination (RCD) are not present. Attachment 8, Requirements for a DR/CAR Response, Step 2 C, Cause Determination, requires this formal RCD "if the cause is not known or the condition is considered a significant deficiency...", and
- 2) AP-16.4Q, Root Cause Determination, specifies in step 5.1.1 that the responsible individual is to "determine the need to perform an RCD in accordance with AP-16.1Q" upon receipt of a DR. Instruction for that determination is addressed in AP-16.1Q, as discussed in 1) above.

The condition being addressed is not considered "a significant deficiency" and the cause is apparent, not unknown. Therefore, the determination of cause has been performed in accordance with the pertinent procedures, and without need of an RCD.

#### Item 17 (Continued)

As discussed in Section 16, Cause, the training required in item one has been accomplished and is reflected in TrainServe. Attached are hard copies of email demonstrating that the communication required in items two and three has been performed, and has been acknowledged by the recipients.

Upon investigating the cause and extent of condition of this deficiency, the option of a procedural feature specifying the definition of timely reporting was determined to be unwarranted to enhance compliance. Lack of attention to software defect reporting, not lack of specificity regarding reporting timing, was the cause of this deficiency. In addition, the extent of condition review indicates that organizations other than Biosphere are rather timely in their reporting of defects, without a specific timing requirement stated in the procedure. Requesting a procedure change to add a definition of timely reporting has been determined as unwarranted to preclude recurrence.

#### SOFTWARE DEFECT NOTIFICATION

C	O	P	01/2
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QA: QA

	Complete Only A	oplicable Items	
Software Tracking Number:	2. Software Name and Ver	sion:	3. Software Activity Number:
CSCI: 30034 V1.4.8.5	GENII-S V1.4.8.5		N/A
Source of Error or Defect:	<u> </u>	<del></del>	1
Internal to CRWMS			
External to CRIMING (Sumplier or Outside)	( loor)		
<ul><li>External to CRWMS (Supplier or Outside Name (if available)</li></ul>	: USer)		
·			
Phone (if available)			
Date Error or Defect Encountered:	1,	6. Has Error or Defect Be	een Verified?
7/2/01	,		No
			_
Document the environment under which error or Range where the error occurred) or attach a copy or			
INTRODUCTION			
GENII-S V1.4.8.5 can generate both the de	eterministic output and t	he statistical output.	The code consists of two parts, a
pre-GENII and GENII-S. The type of output software defect uses the type of statistical or	it is selected in the Pre-C	JENII part. The exa	imple described in this description of the
biosphere dose conversion factor calculation	on. This output quantity	is selected from the	Pre-GENII menus (Pre-GENII Main
Menu> Select Stat. Output; Choose Outp	ut Options> Stat. Con	nmitted Dose Summ	ary).
The GENII-S output block consists of the re	esults of individual mod	al realizations that is	sclude both campled independent
variables and the resulting dependent varia	bles. The number of rea	lizations is determin	ied by the user, although it is limited by
the size of the output block. The results for	· individual variables car	n be displayed, using	
statistics. The sequence of menu selections	to get the statistics is as	follows:	•
Main Menu> Examine Output			
Main Output Menu> Statistical Results	L O		
Statistical Output Menu> Examine Samp Select Output for Display> Stat. Committee			
followed by the selection of the required var			
The displayed statistics for the selected year	akla inaluda tha minimu		otandand daviation, and managetics in
The displayed statistics for the selected vari increments of 5. The user can also save the	able include the minimus results of the individua	m, maximum, mean I realizations to an A	SCII file and then calculate the statistics
using an external software, such as Excel.			
Main Output Menu ® Other Output			
Other Output ® Write Output Block to ASC	CII File		
Select Output for Display ® Stat. Committe	d Dose Summary		
Enter ASCII File Name with Path			
DESCRIPTION OF THE DEFECT			
When the percentiles for the biosphere dose			
the percentiles calculated using Excel, althoreviled that this happens when the number of			
number. This is because the percentile value	ies are calculated by GE	VII-S for the number	rs of data points which are multiples of
the nearest integer obtained by dividing the	number of realizations b	by 20 rather than for	the actual number of data points
contributing to a given percentile value. Mo	preover, the first and the	last interval are not	
8. User or Developer Name:	User or Develope	er Org.:	(See Addendum 1
Maryla A. Wasiolek	PA/Biosphere	J	12/6/01
Software Status Accounting Name and Signature:	Software Status	Accounting SDN Numbe	er; Date:
* *	•	_	
Jeff Mason Jell Mason	SUNCOGH2	CC11221	12/21/2001
10. Software Configuration Management Verifier Na	me and Signature:		Date:
Lyle Southwarth Xali A	wettiens		12/21/2001
· · · · · · · · · · · · · · · · · · ·	Signature:		Date:
Robert & Silone	of a state of		12/2/1

Addendum 1 (See continuation page)

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SOFTWARE CONTINUATION PAGE  Complete Only Applicable Items					
1. Software Tracking Number: CSCI: 30034 V1.4.8.5	2. Software Name and Version: GENII-S V1.4.8.5	3. Software Activity Number:			
4. Continuation for:  SOFTWARE BASELINE REQUEST	SOFTWARE USER REQUEST	SOFTWARE DEFECT NOTIFICATION			
DESCRIPTION OF THE DEFECT (continuous for example, for 150 data points, there are sinteger gives 8 data points). However, 8 x 2 through 19th intervals contain 8 points; the	8 data points per percentile interval (150/20 20 = 160, which is more than the number of	f realizations. Therefore, only the 2nd			
PROPOSED RESOLUTION GENII-S percentiles are correct if the numb then, to get the percentiles, the results shoul					
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S	SOFTWARE CONTINUATION PAGE Page: 3 of: 3					
Complete Only Applicable Items						
1. Software Tracking Number: CSCI: 30034 V1.4.8.5	2. Software Name and Version: GENII-S V1.4.8.5	3. Software Activity Number:				
Continuation for:						
SOFTWARE BASELINE REQUEST	SOFTWARE USER REQUEST	SOFTWARE DEFECT NOTIFICATION				
Continuation page for the software defect re	egarding calculation of the distribution perce	ntiles.				
IMPACT ANALYSIS The Biosphere Dose Conversion Factors (BI However, there is no impact of this defect of (1) the BDCFs for the groundwater release of functions, from the results of individual mod (2) the BDCFs for the volcanic release expo realizations. Since 160 is divisible by 20, the	on the TSPA-SR results because: exposure scenario that were used in TSPA-SI del realizations and the percentiles were not sure scenario that were used in TSPA-SR we	R were developed, as distribution used;				
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#### **SOFTWARE DEFECT NOTIFICATION**

Complete Only Applicable Items

	Page:	1 o	f: 1
C	OF	<b>)</b>	

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	. Compress Ciny .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1. Software Tracking Number: CSCI: 30034 V1.4.8.5	2. Software Name and V GENII-S V1.4.8.5	ersion:	3. Software Activity Number:
Source of Error or Defect:			
Internal to CRWMS			
External to CRWMS (Supplier or Outside	le User)		
Name (if available)			
Address (if available)			***************************************
Phone (if available)			
5. Date Error or Defect Encountered:		6. Has Error or Defect B	leen Verified?
12/07/01		✓ Yes	No
7. Document the environment under which error or Range where the error occurred) or attach a copy of			
INTRODUCTION GENII-S V1.4.8.5 is the code that supports environmental transport of carbon-14 (C-1 specifically for this radionuclide. One of t quantify this process includes the paramter from soil is one of the user-defined input p	<ul> <li>4) is addressed in GEN he submodelsconcerns r of effective removal co</li> </ul>	III-S by a suite of spec the C-14 transfer from onstant for C-14 in the	cial submodels, that are designed new water to crops. The formula used to esoil. The removal constant of carbon
DESCRIPTION OF THE DEFECT The effective removal constant for carbon at 0.8 per year. The value defined by the u	in the special model for iser, which is included	· C-14 transfer from w in the FTRANS.DAT	vater to crops is hard-wired into the code file, is not used by the code.
OTHER ISSUES With regard to the GENII-S special models animals is not included in the model that cresults. Also, the code does not consider C the pathways that could be associated with the soil and ingestion of contaminated soil.	alculates C-14 concent C-14 concentration in so C-14 contaminated gro	ration in animal produ oil as a result of irrigat	ucts, which may lead to non-conservative tion with contaminated water. Therefore,
PROPOSED RESOLUTION The user needs to evaluate the significance	of the defect and the o	missions on the indivi	idual case basis.
C. Harris Davidson Name	[ ] January Davids		
8. User or Developer Name: Maryla A. Wasiolek	User or Develo PA/Biospher		Date: 12/12/01
Software Status Accounting Name and Signature	Software Status	s Accounting SDN Numbe	er: Date:
Jeff Mason July Marian 10. Software Configuration Management Verifier Na	SONOONES	10011221	12/21/201
10. Software Configuration Management Verifier Na	ame and Signature:	7	Date:
-yle CSouthweath Lele C	- Sust Arrent		12/21/2001
11. Software Configuration Management Name and	Signature:	1	1 D-4-:
Stroker 3 Stan-	1 1. 1C		12/21/c1

S	OFTWARE CONTINUATION PAG	Page: 2 of: 2
	Complete Only Applicable Items	
1. Software Tracking Number: CSI: 30034 V1.4.8.5	Software Name and Version:     GENII-S	Software Activity Number:     N/A
4. Continuation for:		
SOFTWARE BASELINE REQUEST	SOFTWARE USER REQUEST	SOFTWARE DEFECT NOTIFICATION
Continuation page for software defect conce	rning the value of C-14 removal constant fro	m soil.
IMPACT ANALYSIS If the user-developed leaching coefficient of would increase by about a factor of 3 compa	0.132/year were used instead of the "hard-wred with the value used in the TSPA-SR (the	ired"value of 0.8/year, the BDCF for C-14 ratio of the BDCF values is about 4).
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## OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT SOFTWARE DEFECT NOTIFICATION

#### Complete Only Applicable Items

	Complete Omy	Applicable itellis		
Software Tracking Number:	2. Software Name and Version: 3. Soft GENII-S V1.4.8.5		Software Activity Number:	
CSCI: 30034 V1.4.8.5			N/A	
4. Source of Error or Defect:			<del></del>	
Internal to CRWMS				
	lleer)			
Name (if available)	: Oser)			
· · · · · · · · · · · · · · · · · · ·				
Address (if available)				
Phone (if available)				
5. Date Error or Defect Encountered:		6. Has Error or Defect E	Rean Varified?	
9/1/01		Yes	No	
			<del></del>	
7. Document the environment under which error or Range where the error occurred) or attach a copy of	defect occurred (such as (	Operating System, Switch	Settings, Location in the Code, and the Input	
Range where the error occurred) or attach a copy of	i the error notice/documen	itation received from the St	applier and include a proposed resolution.	
INTRODUCTION				
GENII-S V1.4.8.5 is the code that supports the processes that may be included in the ca	modeling of environing carried out	nental transport of rac	lionuclides in the environment. One of	
harvesting. Harvest removal can be switch	ed on by setting the va	alue of the controling	parameter called HARVST in the	
DEFAULT.IN file to true (HARVST = false	e if harvest removal is	not to be included).	In the current biosphere model, this	
parameter was set to "true" which meant the consideration of long-term radionuclide acc	at the radionuclide rep	noval by crop harvest	ing was supposed to be considered for the	
consideration of long-term radionacine acc	Junitation in Soit.			
DESCRIPTION OF THE DEFECT				
In the process of the biosphere model validation of tests were conducted to show if the result				
tests were designed such that they magnifie	d the effect of radionu	clide removal by crop	harvesting, by the appropriate selection	
of input parameters, to ensure that the effect	t was observable. The	e results of the tests in	dicated that the GENII-S output was	
insensitive to inclusion of harvest removal. In other words, it appears that the mathematical representation of this process is not effectively implemented by the code.				
encervery impremented by the code.				
PROPOSED RESOLUTION			Al . A . A . C.Al	
The fact that the harvest removal process is not included does not appear to be affecting the treatment of other processes by the GENII-S code. However, the user needs to be aware that the process of radionuclide removal from soil by crop harvesting is not				
included in the GENII-S calculations regardless of the setting of the controlling parameter. This results in more conservative				
output.	_			
8. User or Developer Name:	User or Develo		Date:	
Maryla A. Wasiolek	PA/Biospher	re	12/06/01	
9. Software Status Accounting Name and Signature	Software Statu	is Accounting SON Numb	er: Date:	
	- I		12/21/2001	
Jeff Mason July Mason  10. Software Configuration Management Verifier Na	SDNOOPS	2021121		
			Date:	
Ly/e South 4 かん スッピュース が			12/21/2001	
11. Software Configuration Management Name and Signature Date:				
Stephen is solar	ld soll			

AP-SI.1Q.2

QA: QA

3.	Complete Only Applicable Items	JE Page: 2 of: 2
1. Software Tracking Number: CSC1:3034 V1.4.8.5	2. Software Name and Version: GENII-S V1.4.8.5	3. Software Activity Number:
4. Continuation for:  SOFTWARE BASELINE REQUEST	SOFTWARE USER REQUEST	SOFTWARE DEFECT NOTIFICATION
Continuation page for the software defect co	oncerning not including harvest removal.	
compared to the BDCFs that take account or parameter that controls adding/removing of	tesses of radionuclide removal from soil result of this process. Because it was determined the fithis process to the model, it is not possible to iosphere modeling will not include this remove multi-year land use is considered.	nat GENII-S is insensitive to the value of to exactly evaluate the magnitide of the
NOTE The date the defect was encountered has bee 10/10/01, per memo from Wesley Wu who described the second	enentered incorrectly on the first page of this discovered the defect.	software defect notification. It should be
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#### Wesley Wu

03/01/2002 01:22 PM

To:

Anthony Smith/YM/RWDOE@CRWMS -

cc:

Subject: Re: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

Thanks Tony. I have read and understand your message on the recent deficiency and reiterating the need for complying with procedures verbatim.

Wesley

From: Anthony Smith on 03/01/2002 11:38 AM

From:

Anthony Smith on 03/01/2002 11:38 AM

To:

Maryla Wasiolek/YM/RWDOE@CRWMS, Jeff Tappen/YM/RWDOE@CRWMS, Wesley

Wu/YM/RWDOE@CRWMS

cc:

Subject: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

The messages in this email are being communicated to the Biosphere team members to help preclude, recurrence of a deficiency in our performance. While we typically perform very well, we need to enhance our attention to performance in the area of software error or defect reporting. And more generally, we need to reinforce our need to comply with procedures verbatim.

Please read this message, commit to act in accordance with it, and send me a response to that effect by Close of Business Monday 04 March 2002.

As you are aware, a Deficiency Report was issued because we did not submit a Software Defect Notification (SDN) upon encountering problems with GENII-S code. For the problem with percentiles, approximately 109 workdays passed between discovery and submittal, and for the harvest problem, 42 work days transpired before reporting. The procedure, AP-SI.1Q, states that "upon discovery" the responsible manager is to perform the two investigative steps and the three reporting steps contained in 5.11.1. We failed to timely perform these steps to conclusion.

The press of workload and the recognition that other organizations were likely not impacted are among the reasons for not having reported upon discovery. However, no reasons are satisfactory for failing to comply with procedural requirements, other than significant safety considerations in which case the work should be stopped. Lack of attention to the specific procedural requirement is the cause of the current deficiency.

The policy of verbatim compliance with all procedural requirements must be practiced by each of us in all the work we perform. We have all been taught and know this. This recent deficient performance indicates a lapse in performing in the way we know is right. We must correct any thinking that has crept in that could cause us to not practice compliance with procedures verbatim.

Cases of recognized or suspected need to comply with procedural requirements competing with demands on our time and attention may well occur again. You are instructed to bring these to my attention as the responsible manager as soon as possible. No one is authorized to make priority decisions that delay or ignore verbatim compliance. The manager must be made aware in a timely manner, which will permit

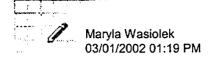
making arrangements to assure procedural compliance and satisfy work demands for which the manager is responsible.

If you have questions, please discuss them with me in person. I want to clear up any concerns.

I recognize that our work is of very high caliber and we are very careful about procedural compliance. This message is to help enhance performance in one area where we recently varied from that standard.

**Action**: As part of the DR resolution process, please reply to this message, using the Reply with History Option, with a short email to me by close of business Monday 04 March 2002. The email should state something like:- "I have read and understand your message on the recent deficiency and reiterating the need for complying with procedures verbatim." Assure that you label the response "QA and Inclusionary

Thank you.



To:

Anthony Smith/YM/RWDOE@CRWMS

cc:

Subject: Re: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

I have read and understand your message on the recent deficiency and reiterating the need for complying with procedures verbatim.

From: Anthony Smith on 03/01/2002 11:38 AM

From:

Anthony Smith on 03/01/2002 11:38 AM

To:

Maryla Wasiolek/YM/RWDOE@CRWMS, Jeff Tappen/YM/RWDOE@CRWMS, Wesley

Wu/YM/RWDOE@CRWMS

cc:

Subject: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

The messages in this email are being communicated to the Biosphere team members to help preclude recurrence of a deficiency in our performance. While we typically perform very well, we need to enhance our attention to performance in the area of software error or defect reporting. And more generally, we need to reinforce our need to comply with procedures verbatim.

Please read this message, commit to act in accordance with it, and send me a response to that effect by Close of Business Monday 04 March 2002.

As you are aware, a Deficiency Report was issued because we did not submit a Software Defect Notification (SDN) upon encountering problems with GENII-S code. For the problem with percentiles, approximately 109 workdays passed between discovery and submittal, and for the harvest problem, 42 work days transpired before reporting. The procedure, AP-SI.1Q, states that "upon discovery" the responsible manager is to perform the two investigative steps and the three reporting steps contained in 5.11.1. We failed to timely perform these steps to conclusion.

The press of workload and the recognition that other organizations were likely not impacted are among the reasons for not having reported upon discovery. However, no reasons are satisfactory for failing to comply with procedural requirements, other than significant safety considerations in which case the work should be stopped. Lack of attention to the specific procedural requirement is the cause of the current deficiency.

The policy of verbatim compliance with all procedural requirements must be practiced by each of us in all the work we perform. We have all been taught and know this. This recent deficient performance indicates a lapse in performing in the way we know is right. We must correct any thinking that has crept in that could cause us to not practice compliance with procedures verbatim.

Cases of recognized or suspected need to comply with procedural requirements competing with demands on our time and attention may well occur again. You are instructed to bring these to my attention as the responsible manager as soon as possible. No one is authorized to make priority decisions that delay or ignore verbatim compliance. The manager must be made aware in a timely manner, which will permit making arrangements to assure procedural compliance and satisfy work demands for which the manager is responsible.

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Thank you.

#### Jeff Tappen

03/01/2002 12:58 PM

To:

Anthony Smith/YM/RWDOE@CRWMS

cc:

Subject: Re: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

I have read and understand the attached message concerning the recent deficiency and reiterating the need for complying with procedures verbatim. You have my committment to comply with procedures verbatim.

From: Anthony Smith on 03/01/2002 11:38 AM

From:

Anthony Smith on 03/01/2002 11:38 AM

To:

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Wu/YM/RWDOE@CRWMS

cc:

Subject: Recent Deficiency and the Need for Complying with Procedures Verbatim

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Thank you.

From:

Anthony Smith on 03/12/2002 05:49 PM

To:

Anthony Smith/YM/RWDOE@CRWMS

CC:

Jeff Tappen/YM/RWDOE@CRWMS

Subject: Re: Recent Deficiency and the Need for Complying with Procedures Verbatim

QA:QA Inclusionary

Being one of the involved parties, I am letting you know my response to this request to acknowledge future actions with regard to the reported deficiency.

For the record, I have written, read and understand the attached message concerning the recent deficiency and reiterating the need for complying with procedures verbatim. In future I commit to comply with procedures verbatim.

From: Anthony Smith on 03/01/2002 11:38 AM

From:

Anthony Smith on 03/01/2002 11:38 AM

To:

Maryla Wasiolek/YM/RWDOE@CRWMS, Jeff Tappen/YM/RWDOE@CRWMS, Wesley

Wu/YM/RWDOE@CRWMS

cc:

Subject: Recent Deficiency and the Need for Complying with Procedures Verbatim

**QA:QA Inclusionary** 

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Thank you.

Submittal	Page	of	

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

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	swo

NO. BSC-02-D-058 PAGE OF

QA: QA

#### CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Verification of corrective action commitments pertaining to this Deficiency Report (DR) was conducted on March 25, 2002.

Immediate Action: Confirmed that a Software Defect Notice (SDN) had been generated on 12/06/01, and had been properly processed as specified in AP-SI.1Q, Software Management. Verified by contact with Software Configuration Management (SCM) personnel that the SDNs have been fully processed to closure. Also confirmed, through review of the final response documents, that no other problems emerged following the extent of condition determination, thus no remedial actions were required beyond the generation of the SDN.

Extent of Condition: Reviewed the data generated as the result of the extent of condition evaluation conducted with the assistance of the SCM group. Of the seven SDNs observed, only the SDNs cited in this deficiency involved what could be regarded as excessive delays in problem reporting. During this verification, also contacted SCM to determine if any other SDNs had been submitted. Only one SDN was submitted since the extent of condition study was conducted on 2/21/02. This SDN was generated by a different group and did not involve a delay in processing. The extent of condition is determined to be very limited in terms of organizations and software codes involved.

Impact: Because the codes involved in this deficiency are used by only one organization (Biosphere Department), and because that organization was aware of the problem with the codes, impact is deemed to be very limited in scope. As documented in the impact statements within the SDN, the problems in the code had no impact on Total System Performance Assessment for Site Recommendation (TSPA-SR). Impact is deemed to be negligible.

Cause: Concur with the Responsible Manager's assessment of the cause. It is deemed to be accurate and sufficiently broad to account for the conditions described in this DR. Concur that conditions are not such that a root cause determination is not required.

Actions to Preclude Recurrence: Verified that all staff members involved in the condition as described in this DR have, in fact, completed the training as stated in commitment 1. Completion of training is posted on the Train Serve web site. Also verified that management has communicated the concerns described in commitments 2 and 3. Documents submitted with the complete response include statements from staff members indicating their understanding of the issues involved in this DR, and their understanding of the requirements for verbatim procedure compliance. The return emails also contain a commitment to comply with procedural controls on a verbatim basis.

The extent of condition appears to have been thoroughly investigated. The assessment of cause is deemed to be accurate, and the actions to preclude recurrence have been effectively taken. I recommend that this DR be closed at this time.

Sam E. Archuleta
OA Representative

D

, e<sub>1</sub> = 63



#### **Department of Energy**

Washington, DC 20585

APR 03 2002

QA: QA

D. E. Calloway Bechtel SAIC Company, LLC 1180 Town Center Drive, M/S 423 Las Vegas, NV 89144

VERIFICATION OF CORRECTIVE ACTIONS AND CLOSURE OF DEFICIENCY REPORT (DR) BSC-02-D-059

The Office of Quality Assurance staff has evaluated the corrective actions of DR BSC-02-D-059 and determined the results to be satisfactory. As a result, the DR is considered closed.

Ram Murthy, Acting Director
Office of Quality Assurance

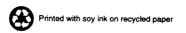
If you have any questions, please contact either James Blaylock at (702) 794-1420 or Christian M. Palay at (702) 794-1486.

OQA:JB-0899

Enclosure:

DR BSC-02-D-059

/m6509 11-MW



#### cc w/encl:

N. K. Stablein, NRC, Rockville, MD

Robert Latta, NRC, Las Vegas, NV

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

Engelbrecht von Tiesenhausen, Clark County, Las Vegas, NV

S. H. Horton, BSC, Las Vegas, NV

C. A. Humphries-Alder, BSC, Las Vegas, NV, M/S 280

M. J. Johnson, BSC, Las Vegas, NV

R. P. Keele, BSC, Las Vegas, NV, M/S 280

D. T. Krisha, BSC, Las Vegas, NV

D. M. Kunihiro, BSC, Las Vegas, NV

Charles Sharrocks, BSC, Las Vegas, NV

T. J. Wall, BSC, Las Vegas, NV

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

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

C. M. Palay, NQS, Las Vegas, NV

J. R. Dyer, DOE/YMSCO, Las Vegas, NV

C. E. Hampton, DOE/YMSCO, Las Vegas, NV

D. G. Horton, DOE/YMSCO, Las Vegas, NV

J. M. Replogle, DOE/YMSCO, Las Vegas, NV

B. M. Terrell, DOE/YMSCO, Las Vegas, NV

R. N. Wells, DOE/YMSCO (RW-60), Las Vegas, NV

### ORIGINAL MISSIAN BED STAND

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

8.	DEFICIENCY REPORT
	CORRECTIVE ACTION REPORT
NO.	BSC-02-D-059

U.S. DEPAI	KINIENI OF ENERGY		DOO 02 D 037
WAS	HINGTON, D.C.		PAGE 1 OF QA: LQK
DEFICIENCY/COF	RRECTIVE ACTION RE	PORT	D60 1/1/02
1. Controlling Document:		2. Related F	Report No.:
AP-6.1Q, Rev. 6, ICN 1, Controlled Distribution		N/A	
3. Responsible Organization:	4. Discussed With:		
Document Control 5. Requirement:	Marty Johnson, Michelle Pra	iter	
AP-6.1Q, Revision 6, ICN 1 Section 5.3.3 b) states, " If an set an effective date a minimum of three business days after	er the acceptance of the docum	ent."	
Section 5.4 f) states, "Prior to the effective date, transmit the	he controlled distribution copi	es to the Doc	ument Holders using"
6. Description of Condition: Contrary to the above requirements, Document Control accomment Database after their effective dates:	cepted and posted the followin	g documents	on the OCRWM Program
LP-OM-045Q-BSC, Rev. 0, "Concrete Batch Plant Operat	ion" was received by DC on 12	2/12/01 poste	d 12/13/01 effective 11/12/01
TWP WIS-MD-00007, Rev. 0, "Technical Work Plan for: posted 12/12/01 effective 11/28/01.	Igneous Activity Analyses for	Disruptive E	vents" received 12/10/01,
7. Initiator/ Ayuthia Humphries-Alder  Date 01/04/02	9. Does a stop work co	onaition exist?	(Not required for a DR)
10. Recommended Actions:			
None			
11. QA Review: Chris Palay Date 01/09/02	12. Response Due Da		n issuance
13. DOQA Issuance Approval:  Printed Name Ram Murthy S	Signature Jan Blan	th	Date 1/11/07
22. Corrective Actions Verified	23. Closure Approved	by:	1 .
QAR Chris Paley Date 03/27/ Exhibit AP-16.1Q.1	60 DOQA Johns K	) Jaylork	Date 4/2/27 Rev. 12/20/1999
		v	

	(			(			,
TYPE RESPONSE:  Initial Complete Amended		ACTIVE WA . DEPARTMI	F CIVILIAN STE MANAGE ENT OF ENER STON, D.C.	1	DR/CAR NO. 1 PAGE 2	OF QA: 1	DEC 1/29/0 QA
D	EFICIENCY/COI	RRECTIVE A	CTION REPOR	RT (RESP	ONSE)		
14a. Immediate Actions: The Document Control Sup date is shown as before the was required to sign and da clarification was also issue	date of delivery to Do te a hard copy of the	ocument Control	. An e-mail memo	was issued to	this effect, ar	nd each staff	
Compliance Date: 12/18/200	)1 and 12/19/2001(Fo	ollow-up)					
14. Remedial Actions: No remedial actions were p File" will be placed in the r The memo will reference th The Document Control Su	ecords file of both do iis DR to indicate awa	cuments, as well areness of the dis	as in the files of any screpancy between the	y other docur	nents found h	aving this co	ondition.
15. Extent of Condition: Document Control reviewed the Document Control Superandidates for urgent computer period, only three (3) had e TWP-HBS-ST-000001 Rev	ervisor 12/18/01. Content of the content of the	October 1 was sel was finally availate "DC Received MD-000025, Rev	ected because TWP' able after "continuin t" date. One TWP is to 0.	s would need g resolution. s cited by this	l updating for " Of 36 TWI s DR, and the	FY02 and w P's issued du two others a	rould be ring the are
DR had an effective date be 16. Cause: (Attach results of According to AP-6.1Q, an e Contrary to this definition, delaying document delivery efforts to accommodate, and effective dates. AP-6.1Q at to meet dates required to su	root cause detemination ffective date is defined document owners had to Document Control with seemingly no outhorizes only Document	on prepared in acd as "the date set d set effective data for controlled dother recourse, D	AFTER acceptance tes prematurely, and listribution until afte C violated AP-6.1Q	of the docur d further come or the unauth by accepting	ment for contrapounded the orized effective and honoring	colled distrib condition by we date. In the g the previou	heir Isly set
17. Action to Preclude Recu The Document Control Sup that has passed prior to deli precede delivery to DC, and document acceptance, the d sufficient time for DC proce	ervisor has instructed very to DC. Docume (2) proposed effectiv ocument must have e	nt Control will not control will not control with the control will not control with the control will not control with the control will not con	o longer accept doc lose to allow timely	uments when controlled di	i: (1) Propose stribution pro	ed effective d cessing. To	ates achieve
The Manager of Document effective dates to be set with	Control will issue a not consultation with	nemo to Departn Document Cont	nent Managers to increase. This will be co	form them th mpleted by F			
18. Due Date: 2/15/02  For submittal of com  For completion of co  20. Evaluation:	olete response	DE G	David Calloway ,	1/29/		002. C. Humph ne 295-5562	
Accept Accept	Partially Accept	Reject		701	0.	_ ,	

Date

Exhibit AP-16.1Q.1

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	<u> </u>				
TYPE RESPONSE:				ם	DR/CAR NO. BSC-02-D-059
☐ Initial		OFFICE OF C		P	
 ✓ Complete	RADIO	ACTIVE WASTI	E MANAGEMENT	Γ	PAGE 3 OF QA: X QA
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Amended		WASHINGTO	N, D.C.		
	DEFICIENCY/CO	RRECTIVE ACT	ION REPORT (R	ESPC	ONSE)
14a. Immediate Action					
See Initial Response of	iated 1/29/02				
Compliance Date: 12/	18/2001 and 12/19/2001 (F	Follow-up)			
	18/2001 and 12/19/2001 (1				
14. Remedial Actions: See Initial Response of	dated 1/20/02				
See muai Response (	lated 1/29/02				
15. Extent of Condition	1:				
			29/02, in which it was	docum	nented that three TWP's and one
procedure (were proce	essed as described in this I	JR.			Ł.
There is no other way	DC can ascertain the imp	act of this deficiency	other than contacting t	the auth	nors to determine if work was
performed to the docu	iments before controlled di	istribution. The author	ors of the four documer	nts assu	ired DC that no work was
performed. Therefore	, this deficiency had no im	ipact on work periorn	ance or work products	S.	
16. Cause: (Attach res	sults of root cause detemina	ition prepared in accor	dance with AP-16.4Q fo	or a sign	ificant deficiency.)
See Cause provided in	n Initial Response dated 1/	/29/02.			
17. Action to Preclude	Recurrence:	to issue a memo to De	nartment Managers to	inform	them that AP-6.1Q does not
permit effective dates	to be set without consultate	tion with Document (	Control. This action wa	as comp	pleted February 15, 2002.
•					
18. Due Date: Februa	ery 15, 2002	19. Response by://L	avid Calloway		DE Mark to Le making De de
i	i of complete response		1		Phone 295-5562
	•	11/		- 1	
✓ For completion	on of corrective action	Upano.		teo	O Phone 295-5562
20. Evaluation:	Accept Partially Accept	Reject 21	. Concurrence:	A 1	)

Exhibit AP-16.1Q.1





### **Interoffice Memorandum**

QA: NA

To:

Distribution

No.:

0215021513

From:

David E. Calloway

Date:

2/15/02

Re:

Establishing Effective Dates

CC:

M. L. Prater, SUM1/423

RPC = 2 pages

The purpose of this memo is to clarify the conditions for acceptance of newly approved controlled documents at the Document Control Center.

AP-6.1Q, "Controlled Distribution," Section 5.3.3 b, requires that Document Control (DC) set the effective dates of controlled documents after acceptance of the document. As a courtesy when contacted in advance by document authors, DC has historically performed expedient processing on controlled documents having effective dates within three business days.

Recently, in efforts to accommodate document authors, DC violated AP-6.1Q by accepting and issuing several controlled documents having effective dates that preceded document delivery to Document Control. Consequently, Deficiency Report (DR) BSC-02-D-059 was issued against Document Control.

Document Control will not repeat this violation. Given that AP-6.1Q authorizes on Document Control to set effective dates, Document Control staff has been instructed to reject any document that jeopardizes compliance with AP-6.1Q. We will no longer accept documents for controlled distribution when: (1) proposed effective dates precede delivery to DC, and/or (2) proposed effective dates do not allow sufficient time for controlled distribution processing.

As always, Document Control will continue to provide urgent processing on a case-by-case basis when necessary to support project priorities. To ensure acceptance under those circumstances, document authors must negotiate an acceptable effective date in advance of document delivery to Document Control department.

Please advise your document authors that DC must fully comply with the requirements of AP-6.1Q. Requests to the contrary will not be honored.

If there are any questions, contact Michelle Prater at (702) 295-7162.

0215021513 February 15, 2002 Page 2

#### Distribution:

R.W. Andrews, SUM1/423

G. S. Bodvarsson, SUM1/423

Maxie Carver, SUM1/423

S. J. Cereghino, SUM1/423

J. D. Cloud, SUM1/423

M. J. d'Ouville, SUM1/423

D. D. Davis, SITE/763

R. R. Dresel, SITE/763

Leon Fossum, SUM1/423

E. M. Gardiner, SITE/717

R. S. Hajner1/423

Jeff Halliday, SUM1/423

R. G. Helms, SUM1/423

Ken Hess, SUM1/423

M. A. Jaeger, SUM1/423

M. J. Johnson, SUM1/423

Jerry King, SUM1/423

M. F. Knop, SUM1/423

Eric Koppitsch, SUM1/423

R. G. Kovach, SITE/735

D. T. Krisha, SUM1/423

R. I. Law, SITE/761

Lannie Lingle, SUM1/423

J. S. Martin, SITE/280

M. M. Maxfield, SUM1/423

Collin Moller, BSC/1

Hank Montizaan, SUM1/423

L. R. Morrison, SUM1/423

P. D. Munson, SUM1/423

L. D. Neddo, SUM1/423

M. P. O'Donnell, SUM1/423

J. F. Pelletier, SUM1/423

T. A. Peterson, SUM1/423

M. T. Peters, SUM1/423

B. E. Reilly, SUM1/423

Ricky Robinson, SUM1/423

V. M. Rochester, SUM1/423

R. P. Saval, SUM1/423

C. S. Sharrocks, SUM1/423

Ardyth Simmons, SUM1/423

C. D. Sorensen, SUM1/423

C. M. Sparks, SITE/T-7009 Christine Stockman, SUM1/423 Robert Stoner, SUM1/423 J. E VanBibber, SUM1/423 M. D. Voegle, SUM1/423 D. D. von der Linden, SUM1/423 Bruce Wells, SUM1/423 Wiley Wells, SUM1/423 J. S. Whitcraft, SUM1/423

N. H. Williams, SUM1/423

Submittal Page 1 of	2	
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#### OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT U.S. DEPARTMENT OF ENERGY WASHINGTON, D.C.

X	DR/CAR/QC SWO
	SWO

NO. BSC-02-D-059 OF

PAGE

QA: QA

#### CONDITION ADVERSE TO QUALITY CONTINUATION PAGE

Verification of Corrective Actions for Deficiency Report (DR) BSC-02-D-059

The complete response outlined corrective actions requiring QAR verification for the following:

#### 14a. Immediate Actions

The BSC Document Control Supervisor committed to directing the document control staff (via electronic mail message to the staff. dated 12/18/01) to not accept documents when the effective date precedes the delivery of that document to Document Control, A follow up message (e-mail dated 12/19/01) was also committed to be sent to reiterate the direction to the staff. These messages were verified by a hardcopy (see attached) of the follow up message sent on 12/19/01 at 8:22 AM that also forwards the first direction e-mail sent on 12/18/01 at 6:43 PM.

#### 14. Remedial Actions

BSC committed to supplement the record packages of the deficient controlled documents (see extent of condition) with a "Memo to File". These memos (MOL.20020204.0110, MOL.20020204.0111, MOL.20020204.0112, & MOL.20020204.0113) reference this deficiency report to indicate the recognition of the discrepancy between the effective dates and the Document Control posting dates. This was verified by reviewing the memos from the Records Processing Center.

#### 15. Extent of Condition

There were four identified documents found with the discrepancy between the effective dates and the Document Control posting dates. The "Memo to File" records for the remedial actions were confirmed as cross referenced in the Record Information System to those four deficient documents (MOL.20020201.0110, MOL.20020204.0111, MOL.20020204.0112, & MOL.20020204.0113)

#### 17. Actions to Preclude Recurrence

The Manager of Document Control committed to issue a memo to the BSC Department Managers informing them of the procederal requiremnts of AP-6.1O for Document Control to set the effective dates for controlled documents. This memo was verifed by the hardcopy transmitted with complete response to this deficieny report. The complete response was accepted by the Office of Quality Assurance on 02/27/02 and the Interoffice Memo from the Documental Control Manager, David E. Calloway, was signed and dated on 02/15/02.

Based on the above evaluation, the QAR recommends closure of DR BSC-02-D-059.

**QAR Signature** 

Date

03/27/02

## Submittal



Michelle Prater 12/19/2001 08:22 AM

To:

Annette Alvarez/YM/RWDOE@CRWMS, Scott Bowlinger/YM/RWDOE@CRWMS, Patricia Gibson/YM/RWDOE@CRWMS, Edythe Hudy/YM/RWDOE@CRWMS, Heather McAndrews/YM/RWDOE@CRWMS, William Olson/YM/RWDOE@CRWMS, Bunny Washington/YM/RWDOE@CRWMS, Ann Anders/YM/RWDOE@CRWMS, Debbie

Lawson/YM/RWDOE@CRWMS, Judith Wetzel/YM/RWDOE@CRWMS, Joy Riley/YM/RWDOE@CRWMS,

Heidi Neff/YM/RWDOE@CRWMS, Susan French/YM/RWDOE@CRWMS

CC:

Marty Johnson/YM/RWDOE@CRWMS, Cynthia Humphries-Alder/YM/RWDOE@CRWMS, David

Calloway/YM/RWDOE@CRWMS

Subject: Documents with Effective Dates

QA:N/A Exclusionary

For clarification: All documents received after it's effective date will NOTbe accepted, distributed or electronically posted, by Document Control. This includes all Technical Work Plans (note; the effective dates on TWPs are located on the Revision History Page).

#### Michelle

------ Forwarded by Michelle Prater/YM/RWDOE on 12/19/2001 08:20 AM ------------



Michelle Prater 12/18/2001 06:43 PM

To:

Annette Alvarez/YM/RWDOE@CRWMS, Scott Bowlinger/YM/RWDOE@CRWMS, Patricia Gibson/YM/RWDOE@CRWMS, Edythe Hudy/YM/RWDOE@CRWMS, Heather McAndrews/YM/RWDOE@CRWMS, William Olson/YM/RWDOE@CRWMS, Bunny Washington/YM/RWDOE@CRWMS, Ann Anders/YM/RWDOE@CRWMS, Debbie Lawson/YM/RWDOE@CRWMS, Judith Wetzel/YM/RWDOE@CRWMS, Joy Riley/YM/RWDOE@CRWMS,

Heidi Neff/YM/RWDOE@CRWMS, Susan French/YM/RWDOE@CRWMS

CC:

Marty Johnson/YM/RWDOE@CRWMS, Cynthia Humphries-Alder/YM/RWDOE@CRWMS, David

Calloway/YM/RWDOE@CRWMS

Subject: Documents with Effective Dates

QA:N/A Inclusionary

Effective immediately, documents (which require effective dates) which are submited to Document Control with "Effective Dates" after the effective dates will NOTbe accepted, distributed or electronically posted, by Document Control. This includes all Technical Work Plans (note: the effective dates on TWPs are located on the Revision History Page).

If you receive any documents or TWPs with effective dates that are after the effective dates bring them to myself or Marty Johnson.

Print this e-mail out and sign and date it indicating that you understand this direction. Bring your signed and dated copies to me.

If you have any questions contact me.

Michelle