

414.4/MH/10/29/81/0

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WMPI: 414.4

NOV 17 1981

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MHaisfield ✓

MKearney

JBunting

RBrowning

JMartin

H. Pettengill

R. Scarano

J. Linehan

D. Martin

W. Costanzi

J. Davis

MEMORANDUM FOR: Record

FROM: Mark Haisfield
Integration and Control

SUBJECT: CLARIFICATION OF SCHEDULES FOR REGULATORY GUIDE
DEVELOPMENT FOR URANIUM RECOVERY

On October 27 and November 2, 1981, the following staff met to discuss RES activities regarding the above subject:

RES: Jared Davis - both days
Frank A. Costanzi - both days
Don Harmon - 11/2

WM: Ross Scarano - 11/2
Harry Pettengill - both days
John Linehan - 10/27
Dan Martin - 10/27
Mike Kearney - 10/27
Mark Haisfield - both days

The WM staff concurred in the schedules and other data as presented for the planned guides with the exception of the following:

Number 9: "Methods, Data, Assumptions, and Models for Predicting Groundwater Transport of Toxic and/or Radioactive Material."
RES schedule originally showed WM input being received 12/81. WM is not providing a formal BTP. RES has amended their plans accordingly. No change to schedule. Note: RES provided draft outline on 10/28.

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- Number 2: "Monitoring Requirements for Detection and Restoration of Lixiviant Excursions for In-Situ Uranium Extraction Facilities." RES schedule originally did not show BTP being provided by 12/81. Attachment was amended accordingly. No change to schedule
- Number 5: "Design, Construction, QA, and Monitoring of Tailings Impoundment Liner Systems." RES plan had shown no WM input and 6/83 date for draft. WM provided BTP on 7/81. Memo from Arsenault to Martin on 8/14/81 agrees to 4/82 date for draft. In addition recent RES TIF shows 4/82 date for draft. RES plan has been revised accordingly.
- Number 4: "Methods of Stabilization and Erosion Protection for Uranium Tailings Disposal Sites." RES original schedule called for draft by 3/82. At 11/2 meeting RES informed us that this date was incorrect and the current date is 6/83. WM felt 6/83 was unacceptable. The following options were discussed:
- (1) RES will negotiate internally to see if this date can be accelerated, or
 - (2) This R.G. will be started very soon by PNL. RES will substitute the planned effort on "Determination of Compliance with Final Tailings Disposal Site Reclamation Criteria" (No. 18) with number 4. RES has lead to determine which option will be used.

During this discussion, Jerry Davis explained how RES is planning to develop personnel at PNL who can support the UR regulatory guide development for the next several years. Ross Scarano accepted the approach to start some regulatory guides by contract.

- Number 3: "40 CFR 190 Compliance Evaluation Methods." WM stated it has previously agreed (Pettengill and Conti) to issue this as a NUREG instead of a regulatory guide. Mr. Pettengill stated that the development of this NUREG is well under way (draft nearly complete) and that the original schedule shown in the attachment (9/84) would not apply to issuance of a NUREG. RES current schedule is to issue a draft in March.

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R.G. 3.8: "Preparation of Environmental Reports for Uranium Mills."
NMSS provided final comments week of 10/26. RES will
finalize in accordance with schedule (3/82)

R.G. 8.22: "Bioassay at Uranium Mills." Draft supporting NUREG has not
been provided to WM. WM will need time to review this
lengthy document if schedules shown in the attachment are
to be met (draft 1/82). RES will see that we get the
NUREG.

SFC for In-Situ: WM plans to make substantial comments on existing
draft. WM action is on hold due to licensing efforts.
WM committed to provide RES schedule for completion
of review no later than end of November.

The current attachment shows the agreed to schedules (with the exception
of number 4 above). Also on 11/12/81, Dr. Costanzi informed me that
R.G. 8.22 has now been slipped from 1/82 to 6/82. The reason for the
slip is to allow time for WM review and RES revisions based on this
review. The date for providing R.G. 8.22 and its supporting NUREG for
WM review has not been provided. This is an open item yet to be
resolved.

Mark Haisfield

Mark Haisfield
Integration and Control

Attachment:
As Stated

DIST:

TICKET NO:

OFC :	WMPI <i>mlh</i> :	WMPI <i>HEK</i> :	WMUR <i>DB</i> :	WMUR <i>BC</i> :	WMBR :	WMBR :
NAME :	MHaisfield:LM	MKearney	HPettengill	RScarano	FCostanzi	JDavis
DATE :	81/13/02	11/13/81	11/13/81	11/13/81	11/16/81	11/17/81

URANIUM RECOVERY REGULATORY GUIDES
TO BE DEVELOPED IN-HOUSE

	TITLE	BRANCH	WM/INPUT	COMP.	STATUS
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.	1 Site Characterization Techniques and Data Requirements for	ESB	4/82	8/82D	
9.	Evaluating Ground Water at Tailings Disposal Sites				
10.					
11.	9 Methods, Data, Assumptions, and Models for Predicting Ground Water	ESB		9/82D	
12.	Transport of Toxic and/or Radioactive Material				
13.					
14.	Methods for the Determination of Atmospheric Dispersion,				
15.	17 Disposition, and Depletion of Radioactive and Toxic Material	ESB		5/83D	
16.	Released from Uranium Milling Operations				
17.					
18.	6 Atmospheric Dispersion Data, Acquisition, Reduction, Analysis,	ESB		3/83D	
19.	and Reporting Requirements				
20.					
21.	12 Site and Laboratory Investigations of Soil and Foundation	ESB		10/83D	
22.	Materials for Construction of Tailings Impoundment Systems				
23.					
24.	2 Monitoring Requirements for Detection and Restoration of Lixiviant	ESB	12/81	9/82D	
25.	Excursions for In Situ Uranium Extraction Facilities				
26.					
27.	5 Design, Construction, QA, and Monitoring of Tailings	M/SEB	7/81	4/82D	
28.	Impoundment Liner Systems				
29.					
30.	18 Determination of Compliance with Final Tailings Disposal	M/SEB		6/83D	
31.	Site Reclamation Criteria				
32.					
33.	RG 3.5: Standard Format and Content of License Application	UMB		3/82F	
34.	for Uranium Mills				
35.					
36.	RG 3.8: Preparation of Environmental Reports for Uranium Mills	SEB		3/82F	
37.					
38.	RG 8.22: Bioassay at Uranium Mills	ORPB		1/82F	6/82 F (RES w/ps update)
39.					
40.	RG RH 802-4: Calculational Models for Estimating Radiation Doses				
41.	to Man from Airborne Radioactive Materials Resulting from	SEB		2/82F	
42.	Uranium Milling Operations				
43.					
44.	RG OH 941-4: Occupational ALARA for Uranium Mills	ORPB		3/82F	
45.					
46.	RG OH 710-4: Health Physics Survey at Uranium Mills	ORPB		1/82F	
47.					
48.	Standard Format and Content of License Application for			**	
49.	Uranium Solution Extraction Mining	UMB	**	1/82F	
50.					
51.					
52.	NOTE: This guide may be developed with contracted TA. No change in schedule is anticipated.				
53.	1				

** Schedule to be developed based upon schedule for ~~WMS~~ (WM) input, which will be provided by Nov. 30, 1981.

Attachment

	TOTALS	RESOURCES			SCHEDULES							
		FV 82	FV 83	FV 84	FV 82	FV 83	FV 84	FV 85	FV 86	FV 87	FV 88	FV 89
		SV	SV	SV	1	2	3	4	1	2	3	4
1. AREA: URANIUM RECOVERY												
2. RG: Determination of Cover Thickness												
3. and Material Characteristics												
4. for Reclaimed Uranium Mill												
5. Tailings Disposal Sites	100	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6. RG: Determination of Compliance with												
7. Site Decommissioning Open Land												
8. Contamination Cleanup and Contam-												
9. inated Structure Remedial	100	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10. Action Criteria												
11. ARG: Methods of Stabilization and												
12. Erosion Protection for Uranium												
13. Tailings Disposal Sites	100	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14. RG: Models, Data, and Assumptions												
15. for the Establishment of Financial												
16. Surities to Cover Site												
17. Decommissioning and Reclamation	100	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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NOTE: This guide may be developed entirely in-house. No change in schedule is anticipated.

A - TA complete
 B - Submit final report
 C - Draft for comment

URANIUM RECOVERY REGULATORY GUIDES
TECHNICAL ASSISTANCE TO BE INITIATED
FIN FY83/84

<u>11/83</u> <u>1/84</u>	<u>TITLE</u>	<u>PLANNED START</u>	<u>PLANNED COMPLETE</u>	<u>\$K</u>
			<i>TA Complete</i>	
13	Testing, Operation, Maintenance, and Quality Assurance Requirements for Air Pollution Control Devices	FY83	FY84	100
14	Methods for the Determination of Radioactive and Toxic Material Source Terms from Uranium Milling Operations	FY83	FY84	100
	Long-Term Site Surveillance and Monitoring Criteria for Determining the Level of Surveillance Required	FY83	FY84	100
16	Standard Format and Content of Design Reports for Uranium Mill Tailings Retention Systems	FY83	FY84	100
19	Criteria to Be Used in Evaluating the Necessity for Long-term Government Ownership of Tailings Disposal Sites	FY84	FY85	100
20	Criteria for Use in Determining Eligibility of Surface and/or Subsurface Estates for Future Use	FY84	FY85	100