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ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 167427

Proj. ECN

2. ECN Category (mark one)							
Supplemental	[]	Change ECN	[]	Supersedure	[]		
Cancel/Void	[]	Direct Revision	[X]	Temporary	[]	Discovery	[]

3. Originator's Name, Organization, MSIN, and Telephone No.	4. Date
D. L. Smith, 81490, R2-77, 3-5729	June 23, 1992

5. Project Title/No./Work Order No.	6. Bldg./Sys./Fac. No.	7. Impact Level
RARA	Gable Mtn. Pond	4

8. Document Number Affected (include rev. and sheet no.)	9. Related ECN No(s).	10. Related PO No.
SD-DD-TI-036 Rev. 0	N/A	N/A

11a. Modification Work	11b. Work Package Doc. No.	11c. Complete Installation Work	11d. Complete Restoration (Temp. ECN only)
[] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	N/A	N/A Cog. Engineer Signature & Date	N/A Cog. Engineer Signature & Date

12. Description of Change

Page 5, Section 3.2, seventh sentence:

Add an asterisk to the word "Roundup." Add a footnote explaining the asterisk. The footnote will state: "Roundup is the trademark of the Monsanto Company."

13a. Justification (mark one)							
Criteria Change	[X]	Environmental	[]	Facilitate Const.	[]		
Design Error/Omission	[]	Design Improvement	[]	As-Found	[]	Const. Error/Omission	[]

13b. Justification Details

This change is needed so that the document may be cleared for public release.

14. Distribution (include name, MSIN, and no. of copies)

See distribution sheet

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A-7900-013-2 (11/88) {EF} GEF095
Engineering Change Notice

ENGINEERING CHANGE NOTICE	Page 2 of 2	1. ECN (use no. from pg. 1) 167427

15. Design Verification Required	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[] Yes	Additional	[] $N/A	Additional	[] $N/A	Improvement	[] N/A
[X] No	Savings	[] $N/A	Savings	[] $N/A	Delay	[] N/A

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	[]	Seismic/Stress Analysis	[]	Tank Calibration Manual	[]
Functional Design Criteria	[]	Stress/Design Report	[]	Health Physics Procedure	[]
Operating Specification	[]	Interface Control Drawing	[]	Spares Multiple Unit Listing	[]
Criticality Specification	[]	Calibration Procedure	[]	Test Procedures/Specification	[]
Conceptual Design Report	[]	Installation Procedure	[]	Component Index	[]
Equipment Spec.	[]	Maintenance Procedure	[]	ASME Coded Item	[]
Const. Spec.	[]	Engineering Procedure	[]	Human Factor Consideration	[]
Procurement Spec.	[]	Operating Instruction	[]	Computer Software	[]
Vendor Information	[]	Operating Procedure	[]	Electric Circuit Schedule	[]
OM Manual	[]	Operational Safety Requirement	[]	ICRS Procedure	[]
FSAR/SAR	[]	IEFD Drawing	[]	Process Control Manual/Plan	[]
Safety Equipment List	[]	Cell Arrangement Drawing	[]	Process Flow Chart	[]
Radiation Work Permit	[]	Essential Material Specification	[]	Purchase Requisition	[]
Environmental Impact Statement	[]	Fac. Proc. Samp. Schedule	[]		[]
Environmental Report	[]	Inspection Plan	[]		[]
Environmental Permit	[]	Inventory Adjustment Request	[]		[]

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
N/A		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog./Project Engineer D. L. Smith D.L. Smith	2-9-92	PE	
Cog./Project Engr. Mgr. D. R. Speer D.R. Speer	2-9-92	QA	
QA		Safety	
Safety		Design	
Security		Other	
Proj. Prog./Dept. Mgr.			
Def. React. Div.			
Chem. Proc. Div.			
Def. Wst. Mgmt. Div.		DEPARTMENT OF ENERGY	
Adv. React. Dev. Div.			
Proj. Dept.			
Environ. Div.		ADDITIONAL	
IRM Dept.			
Facility Rep. (Ops.)			
Other			

SUPPORTING DOCUMENT

1. Total Pages 42

2. Title	3. Number	4. Rev No.
Gable Mountain Pond Interim Stabilization Final Report	SD-DD-TI-036	0-A

5. Key Words

Gable Mountain Pond, 216-A-25, Pond Interim Stabilization, Decommissioning

APPROVED FOR PUBLIC RELEASE KMB 7/9/92

6. Author

Name: D. L. Smith

Signature 7-9-92

Organization/Charge Code 81490/PV21J

7. Abstract

This report documents the activities for the various phases of decommissioning Gable Mountain Pond (216-A-25) performed under the Radiation Area Reduction Program. The decommissioning of Gable Mountain Pond began in 1984 and was completed in 1988. The total cost of the project was $2.67 million. The activities occurred during a combined operational period of 657 days which spread over a five-year period. The filling of the pond and placement of soil required the hauling of approximately one million cubic yards of material.

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9. Impact Level 4

10. RELEASE STAMP

OFFICIAL RELEASE BY WHC 5

DATE JUL 13 1992

Sta. 4

RECORD OF REVISION	(1) Document Number SD-DD-TI-036	Page 1

(2) Title
Gable Mountain Pond Interim Stabilization Final Report

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release	
		(5) Cog. Engr.	(6) Cog. Mgr. Date
0-A RS	(7) Page 5, Section 3.2, seventh sentence:	D. L. Smith	D. R. Speer
		DL Smith 7-9-92	DR Speer 7-9-92
	Add an asterisk to the word "Roundup."		
	Add a footnote explaining asterisk, and it will		
	state:		
	"Roundup is a trademark of the Monsanto Company.		
	• Implement this change per ECN 167427.		
	Original releasing EDT-102033 3/17/89		

3.0 DECOMMISSIONING ACTIVITIES (Cont'd)

3.2 PHASE I

Phase I operations began in July of 1984. Radiological surveys were performed in the surface contamination zone surrounding the pond. As a result, some of the areas were immediately released. The remainder were scraped until clean and then released, for a combined total of 100 acres. A temporary irrigation water-holding poind was constructed to facilitate dust control efforts. A new well was installed in an aquifer suitable for continuous use. The shoreline of the poind supported Russian olive and willow trees which were sprayed with the herbicide Roundup* by fixed wing aircraft and later by ground, to reduce the possibility of resprouting after stabilization. The topsoil from the designated borrow pit area was removed and stockpiled for later use (Figure 3). The underlying materials from the borrow areas were also removed and stockpiled around the perimeter of the pond in preparation for backfilling operations. The Phase I backfilling operations concentrated on filling the pond areas which were less than 2 feet deep (Figure 4). The inlet area was left open as was the access to the overflow pond area for continued waste water disposal. The Phase I activities were completed on September 28, 1984, (Appendix A, Photo 2).

3.3 PHASE II

Phase II stabilization began May 15, 1985, after the completion of the B-Pond third lobe, which was needed of water level control. The Phase II activities consisted primarily of continued backfilling of the deeper areas of the pond in such a manner as to leave an open channel for continued use of the overflow pond area (Figure 5). Photo 3 in Appendix A shows the pond near the end of Phase II operations which were completed on October 25, 1985.

3.4 PHASE IIA

Phase IIA, which began July 15, 1986, continued the backfilling operations of Phase II. The main objective of the phase was the narrowing of the channel to a nominal 50 feet (Figure 6), while retaining the use of the overflow pond. Photo 4 in Appendix A shows the poind as it was on October 29, 1986, near the end of Phase IIA. This phase was completed on November 26, 1986.

3.5 PHASE III

The purpose of the Phase III activities was the final deactivation of Gable Mountain Pond and stabilization of the site. The achievement of this goal was constrained by the need for emergency disposal capacity in the event of failure of the B-Pond system. The construction of this capacity was delayed repeatedly until its completion placed the planned completion of Phase III in jeopardy. As Phase III began operation on April 7, 1987, efforts

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*Roundup is a trademark of the Monsanto Company.

INFORMATION ORIGINAL

Date Received: 4/8/92 KMB

INFORMATION RELEASE REQUEST

Reference: WHC-CM-3-4

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- [ ] Manual
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- [ ] Software/Database
- [ ] Controlled Document
- [X] Other WHC-SD-DD-AP-015

ID Number (include revision, volume, etc.): SD-DD-TI-036 Rev. 0A

List attachments.

Date Release Required: 4/22/92

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Unclassified Category: UC-

Impact Level: 4

New or novel (patentable) subject matter? [X] No [ ] Yes
If "Yes", has disclosure been submitted by WHC or other company?
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Title of Journal

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	Yes	No
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Transmit to DOE-HQ/Office of Scientific and Technical Information	[ ]	[X]

Author/Requestor (Printed/Signature) Date

D. L. Smith D L Smith 4/8/92

Intended Audience

[ ] Internal [ ] Sponsor [X] External

Responsible Manager (Printed/Signature) Date

D. R. Speer D R Speer 4/8/92

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

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APPROVED FOR RELEASE OFFICIAL KMB DOCUMENT Date 7/9/92

Date Cancelled

Date Disapproved

DISTRIBUTION SHEET

To: Hanford Restoration Operations

From: Decommissioning Engineering

Date: 06/23/92

Project Title/Work Order:

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EDT No.: 102032 (Rev. 0) ECN No.: 167427

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D. A. Berg	S0-09	X		
L. P. Diediker	T1-30	X		
D. Z. Farris	H4-52	X		
K. A. Gasper	R2-08	X		
B. F. Weaver	T3-11	X		
W. M. Hayward (5)	R2-77	X		
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