DISTRIBUTION SHEET

To	From	Page 1 of 1
Distribution	General Support Projects	Date 9/20/94
Project Title/Work Order		EDT No. 607069
Project Management Plan (PMP), W-364, 209E Septic System Upgrade, 200 East Area		ECN No.

Name	MSIN	Text With All Attach.	Text Only	Attach./Appendix Only	EDT/ECN Only
A. W. Akerson	G3-17		X		
D. T. Lott	R3-49		X		
J. B. Witt	R3-49		X		
Project files	R1-28		X		
DTL file/LB	R3-49		X		
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ENGINEERING DATA TRANSMITTAL

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1. EDT

507069

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) General Support Projects		4. Related EDT No.: N/A	
5. Proj./Prog./Dept./Div.: W-364, 209E Septic System Upgrade/7F510		6. Cog. Engr.: D. T. Lott		7. Purchase Order No.: N/A	
8. Originator Remarks: The attached Project Management Plan (PMP) for the 209E Septic System Upgrade is being distributed for approval and release.				9. Equip./Component No.: N/A	
				10. System/Bldg./Facility: 2607-E5, 2607-E, 2607-E7 Systems	
11. Receiver Remarks:				12. Major Assm. Dwg. No.: N/A	
				13. Permit/Permit Application No.: N/A	
				14. Required Response Date: N/A	
15. DATA TRANSMITTED					
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Impact Level
1	WHC-SD-W364-PMP-001		0	Project Management Plan(PMP), W-364, 209E Septic System Upgrade, 200-East Area	N/A
16. KEY					
Impact Level (F)		Reason for Transmittal (G)		Disposition (H) & (I)	
1, 2, 3, or 4 (see MRP 5.43)		1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)		1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged	
(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)			
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN
1	1	Cog.Eng. D. T. Lott	<i>[Signature]</i>	9-7-94	R3-49
1	1	Cog. Mgr. J. B. Witt	<i>[Signature]</i>	9-7-94	R3-49
		QA	<i>[Signature]</i>		
		Safety			
		Env.			
2	1	RL Proj. Eng. C. Pacheco			S7-52
18.		19.		20.	
D. T. Lott <i>[Signature]</i> 9/7/94 Signature of EDT Originator Date		J. B. Witt <i>[Signature]</i> 9-7-94 Authorized Representative Date for Receiving Organization		J. B. Witt <i>[Signature]</i> 9-7-94 Cognizant/Project Engineer's Manager Date	
21. DOE APPROVAL (if required) Ltr. No. [] Approved [] Approved w/comments [] Disapproved w/comments					

RELEASE AUTHORIZATION

Document Number: WHC-SD-W364-PMP-001, REV.0

Document Title: Project Management Plan (PMP), W-364, 209E Septic System Upgrade, 200 East Area

Release Date: 09/21/94

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This document was reviewed following the
procedures described in WHC-CM-3-4 and is:

APPROVED FOR PUBLIC RELEASE

* * * * *

WHC Information Release Administration Specialist:

Kara Broz
(Signature)

09/21/94
(Date)

SUPPORTING DOCUMENT

1. Total Pages 5

2. Title Project Management Plan (PMP), W-364, 209E Septic System Upgrade, 200 East Area	3. Number WHC-SD-W364-PMP-001	4. Rev No. 0
5. Key Words Project Management Plan, PMP, W-364, 209E Septic System Upgrade, 94G-EWW-364 APPROVED FOR PUBLIC RELEASE <i>KMB 9/21/94</i>	6. Author Name: D. T. Lott <i>DT. Lott</i> Signature Organization/Charge Code 7F510/N3BA1	
7. Abstract This document is the Project Management Plan (PMP) of the design and installation of the 209E Septic System Upgrade.		
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9. Impact Level N/A		

**PROJECT - SPECIFIC
PROJECT MANAGEMENT PLAN
PROJECT W-364**

Project Number and Title: 94G-EEW-364
209E Septic System Upgrade

WHC-SD-W364-PMP-001, Rev.0
WHC - D. T. Lott
DOE-RL - C. R. Pacheco

INTRODUCTION

This project-specific project management plan (PMP) supplements the Westinghouse Hanford Company (WHC) generic PMP, SD-MP-PMP-001, Rev. 1 dated August 1990.

1.0 PROJECT OBJECTIVES

1.1 Purpose of Project

Project W-364 is a General Plant Project which will design and construct a new subsurface soil absorption system to replace the 2607-E5, 2607-E and 2607-E7 Septic System which serve the 209E, 276C, 2704C, 2718E, M0337, M0434 and M0543 facilities in the 200 East area.

1.2 Technical Objectives

Project W-364, 209E Septic System Upgrade, will provide a new septic system capable of supporting a minimum occupancy of 200 people. The wastewater from the above facilities will be routed to a new septic tank which will discharge into a new soil absorption system. The design and construction of the system shall adhere to the requirements of the Washington State Department of Health (WDOH) and the Department of Social And Health Services/Washington State Department of Ecology (DSHS/WDOE) "Guidelines for Larger Onsite Sewage Systems," 1987 as well as WAC 246-272, "On Site Waste Water Treatment and Disposal".

1.3 Schedule Objectives

<u>WBS Element</u>	<u>Activity</u>	<u>Start</u>	<u>Completion</u>
1.0	Engineering	8-94	5-95
1.1	Design	8-94	10-94
1.2	Eng. & Insp.	8-94	5-95
2.0	Procurement	N/A	N/A
3.0	Construction	11-94	5-95
4.0	Project Mgmt.	8-94	7-95

1.4 Cost Objectives (\$000)

<u>WBS Element</u>	<u>Estimated Cost</u>
1.0 Engineering	\$ 110
1.1 Design	
1.2 Eng. & Insp.	
2.0 Procurement	N/A
3.0 Construction	\$ 350
4.0 Project Mgmt.	\$ 51
Management Reserve (5% of Authorized Engineering and Construction Cost)	<u>\$ 24</u>
TOTAL	\$ 535
CONTINGENCY	<u>\$ 105</u>
TOTAL ESTIMATED COST	\$ 640

2.0 PROJECT DESCRIPTION/JUSTIFICATION

Septic systems 2607-E5, 2607-E and 2607-E7 currently serve the 209E, 276C, 2704C, 2718E, M0337, M0434 and M0543 facilities and are located on the north side of the 209E building. These systems were constructed in 1968 and consists of three septic tanks which operated in series. The first of these tanks was constructed in the early 1960's and has a capacity of approximately 2,100 gallons. The other two tanks were added to the system in 1968 and each has a capacity of 1,800 gallons. All of the tanks have a water depth of approximately 4.5 feet. The present drain trench has an effective drain area of 450 square feet (5 feet wide by 90 feet long).

Currently, there are several aspects the existing 2607-E5, 2607-E and 2607-E7 systems that do not comply with state regulations and guidelines. These features include an inadequate septic tank depth of 4.5 feet (6 feet is the minimum depth required), a non-pressurized septic system and an insufficient drain field size and configuration. Any changes or renovations to the existing system would require the entire facility's sewage system be upgraded to meet the Washington State Department of Health (WDOH) and the Department of Social and Health Services/Washington State Department of Ecology (DSHS/WDOE) "Guidelines for Larger Onsite Sewage Systems," 1987.

The facilities serviced by these septic systems are currently occupied by approximately 40 administrative and bargaining personnel. It is anticipated these building's occupancies will increase to approximately 120 people in the near future.

The upgrades from Project W-364 will replace these non-compliant and undersized septic systems with a single new soil absorption system meeting all WDOH requirements. The new system will be capable of supporting a minimum occupancy of 200 people.

3.0 PROJECT ORGANIZATION (See Generic PMP SD-MP-PMP-001, Rev. 1)

4.0 PRINCIPAL PROJECT PARTICIPANT RESPONSIBILITIES

- Onsite Architect-Engineer will provide and issue a Statement of Work, Definitive Design, bid documentation, contract administration and participate in systems testing.
- Offsite Construction Contractor will procure materials and install the new septic system including tie-in into the existing system.
- Onsite construction Contractor will perform electrical utility tie-ins, provide engineering and acceptance inspection, manage and administer fixed-price contracts.
- Operating contractor will review and approve offsite design submittals, manage change control process, schedule electrical tie-ins and provide overall project management.
- Work to be performed by ICF KH construction forces will have acceptance inspection for the Government performed by TBD.

5.0 PROJECT MANAGEMENT AND CONTROLS

5.1 Work Breakdown Structure (See Generic PMP SD-MP-PMP-001)

5.2 Baseline definition (See Generic PMP SD-MP-PMP-001)

5.3 Baseline Change Control

Baseline changes are authorized by approval of Change Request in accordance with Tank Waste Remediation System (TWRS) Projects Integrating Procedures Manual WHC-IP-0944, Section TWRS-PIP-2.2, Baseline Change Control, and Appendix E, Other Projects.

5.4 Change Approval Requirements

Change approval requirements shall be in accordance with Manual WHC-IP-0944. All transfers of funding to and from the Management Reserve account will be approved and processed at Level 5 Change Authority. DOE-RL will be notified of Management Reserve funding movements on a monthly basis and provided with copies of the associated change control documentation for information only.

5.5 Performance Monitoring and Reporting (See Generic PMP SD-MP-PMP-001)

5.6 Project Meetings (See Generic PMP SD-MP-PMP-001)

5.7 Configuration Management (See Generic PMP SD-MP-PMP-001)

5.8 System Engineering

No System Engineering is required for this project

6.0 QUALITY ASSURANCE

Quality Assurance (QA) activities for all contractors involved in design, procurement, construction, and testing of the project shall be based on the direction provided in a Letter of Instruction or required by project specifications.

7.0 ENVIRONMENTAL ASSURANCE (See Generic PMP SD-MP-PMP-001)

NEPA documentation has been prepared, reviewed, and approved by WHC NEPA Documentation Function For Safety and Environmental Improvements of a Facility Categorical Exclusion (CX) status covered under the RL CX.

8.0 PROCUREMENT PLAN (See Generic PMP SD-MP-PMP-001)

9.0 TEST AND EVALUATION PLAN (See Generic PMP SD-MP-PMP-001)

APPROVALS:

D. T. Lott, Project Engineer
General Support Projects
Westinghouse Hanford Company

9/7/94
Date

C. R. Pacheco, Project Engineer
Project Management Division
U.S. Department of Energy-Richland Operations

9/9/94
Date