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To Distribution	From Facility Systems / 7AE50	Page 1 of 1			
		Date Oct. 3, 1994			
Project Title/Work Order Engineering Task Plan for Steam Line Ramp Calculations		EDT No. 607543			
		ECN No.			
Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
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8. Originator Remarks: ETN-94-0174 Attached for approval and release is the Engineering Task Plan for SY Steam Line Ramp Calculations. Please distribute copies per the Distribution Cover Sheet.				9. Equip./Component No.: N/A							
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RELEASE AUTHORIZATION

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Document Title: Engineering Task Plan for Steam Line Ramp Calc.

Release Date: October 11, 1994

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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)

October 11, 1994

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SUPPORTING DOCUMENT		1. Total Pages 4
2. Title Engineering Task Plan for Steam Line Ramp Calc.	3. Number WHC-SD-WM-ETP-122	4. Rev No. 0
5. Key Words SY Farm, Calculations, Bridge, Ramp, Concrete Slab <i>Kms 10/11/94</i>	6. Author Name: R. D. Freeman <i>Rich Freeman</i> Signature Organization/Charge Code 7AE50/N2B23	
7. Abstract This Engineering Task Plan is an approved work plan to perform calculations and additional support to verify the load limits of a proposed ramp over a steam line on the East side of SY Farm.		
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9. Impact Level N/A		

ENGINEERING TASK PLAN
CALCULATIONS FOR SY STEAM LINE RAMP

FACILITY SYSTEMS

G.N. DeSantis/R.D. Freeman

September 1994

PREPARED BY: *R.D. Freeman* DATE: 10/3/94
R. D. Freeman
Facility Systems

APPROVED BY: *W.W. Jenkins* DATE: 10/4/94
W. W. Jenkins, Manager
Facility Systems

APPROVED BY: *J.H. Wicks* for DATE: 10/10/94
J. H. Wicks, Manager
Operations

MASTER

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1.0 INTRODUCTION

The purpose of this document is to provide an approved work plan to perform calculations that verify the load limits of a proposed ramp over a steam line at the back side (East side) of SY Farm in support of work package 2W-94-00812/K. The calculations will be performed and issued by Facility Systems (FS).

2.0 SCOPE

The objective of this supporting document is to provide Operations with a set of checked calculations that verify the ramp over the steam line at SY Farm will support a fully loaded concrete mixer truck without affecting the steam line. The calculations will be performed by an engineer from Facility Systems and independently checked and reviewed by another engineer. The calculations may then be added to the work package.

If Operations decides to make any configuration changes to the steam line or surrounding area, Operations shall have these changes documented by an Engineering Change Notice (ECN). This ECN can be done by Facility Systems or any other engineering organization at the direction of Operations.

3.0 DESCRIPTION

A new concrete slab will be installed in SY Farm to support the SY Inlet Filter Installation project. A minimum of two concrete trucks at near maximum capacity in addition to other earth moving equipment will be required for the new slab. Operations has determined that the most accessible route to the Farm is from the East side. The only obstruction to this side of the Farm is a 3" steam line and surface contamination. Operations will be working with the Health Physics Technicians to resolve the surface contamination issue. One option to avoid the steam line would be to cut the line, reroute it overhead and drive the concrete trucks under the steam line. Another option would be to add concrete supports just above grade on both sides of the steam line and a steel plate over the top of the concrete supports and steam line and drive over the top of the steel plate. A concrete mixer truck fully loaded with approximately eight and one half yards of concrete will weigh a maximum of 65,000 pounds. The calculations will show the concrete support location and dimension and steel plate size and location to support this load without affecting the steam line.

4.0 ORGANIZATION

The following is a list of the main organizations involved in the task, their responsibilities and points of contact/responsible manager.

FS - Responsible for performing the load calculations, having the calculations checked and releasing the supporting document. Writing and releasing an ECN to document the changes at the direction of Operations. Engineer, Nick DeSantis, Manager Bill Jenkins.

PROJECTS - Provide FS with the information required to perform the calculations. Provide Person-In-Charge (PIC) responsibilities in support of the work package and installation of the ramp.

OPERATIONS - Provide FS with any information required to perform the calculations. At their option, install ramp, adhering to all QA, Safety and Engineering requirements. Review and approve the final document for release.

5.0 SCHEDULE

Collect information and survey job site.....	2 days
Perform load limit calculations.....	4 days
Independent review and check calculations.....	1.5 days
Write and release an ETP (and DA if required)..	2 days
Write and release an ECN (if required).....	2 days
TOTAL	11.5 days

6.0 COST ESTIMATE

Engineering Support:	Cost not to exceed
1 Engineer, 1 Checker, Manager review	\$10,000

7.0 REFERENCES

WHC, 1992, *Standard Engineering Practices*, WHC-CM-6-1, Westinghouse Hanford Company, Richland, Washington.

WHC, 1993a, Desk Instruction, DI #1, *Engineering Task Plan*