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STA# 4

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 626715

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Distribution	83100/TWRS Upgrades	N/A
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		10. System/Bldg./Facility: Year 2000/241-G
11. Receiver Remarks: 11A. Design Baseline Document? [ ] Yes [X] No		12. Major Assm. Dwg. No.: N/A
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15. DATA TRANSMITTED

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1	HNF-~~4748~~ 4857 alb 7/16/99	N/A	0	Project W-519 Tank Waste Remediation System Privitization Phase I Infrastructure Support Year 2000 Compliance Assessment Project Plan	NA	1,2	1	1

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	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

17. SIGNATURE/DISTRIBUTION
(See Approval Designator for required signatures)

(G) Reason	(H) Disp.	(J) Name (K) Signature (L) Date (M) MSIN	(G) Reason	(H) Disp.	(J) Name (K) Signature (L) Date (M) MSIN
		Design Authority			
1,2	1	Design Agent JH Bussell R3-47 JHBussell 7/16/99			Central Files B1-07
1,2	1	Cog. Eng. RJ Parazin R3-47			Y2K Project File H7-06
1,2	1	Cog. Mgr. JB Payne R3-47 JB Payne 7/16/99			
		QA			
		Safety			
		Env.			

18. JH Bussell — Signature of EDT Originator — 7/16/99 Date

19. RB Bass by Telecon 7/16/99 — ~~JB Payne~~ by JHBussell 10:43 AM — Authorized Representative for Receiving Organization — Date

20. JB Payne — Design Authority/ Cognizant Manager — 7/16/99 Date

21. DOE APPROVAL (if required) Ctrl. No.
[ ] Approved
[ ] Approved w/comments
[ ] Disapproved w/comments

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PROJECT W-519 TWRS PRIVITIZATION PHASE I INFRASTRUCTURE YEAR 2000 COMPLIANCE ASSESSMENT PROJECT PLAN

J. H. Bussell
Numetec
Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

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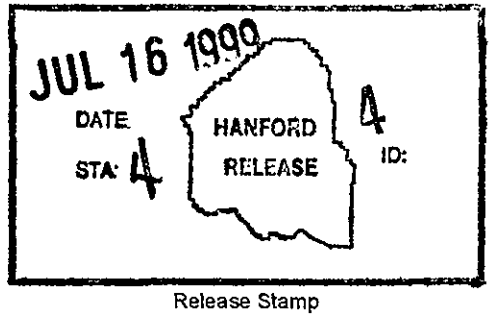
Key Words: Year 2000, Y2K, Project W-519

Abstract:
This document contains a limited assessment of Year 2000 compliance for Project W-519. Additional information is provided as a road map to project documents and other references that may be used to verify Year 2000 compliance.



7/16/99
Release Approval Date

Release Stamp

Approved For Public Release

PROJECT W-519

TANK WASTE REMEDIATION SYSTEM PRIVITIZATION PHASE I

INFRASTRUCTURE SUPPORT

YEAR 2000 COMPLIANCE ASSESSMENT PROJECT PLAN

Prepared by:

JH Bussell
Numatec Hanford Co.

July 15, 1999

TABLE OF CONTENTS

1.0 SCOPE

This assessment describes the potential Year 2000 (Y2K) problems and describes the methods for achieving Y2K Compliance for Project W-519, Tank Waste Remediation System Privitization Phase I Infrastructure Support. The purpose of this assessment is to give an overview of the project. This assessment will describe the methods, protocols, and practices to assure that equipment and systems do not have Y2K problems. This document will not be updated and any dates contained in this document are estimates and may change. The scope of project W-519 is to provide utilities and infrastructure to support construction and operation of the private contractor's facility to treat, immobilize, and dispose of tank waste. The private contractor's facility will be located on east side of 200E-area and north of Route 4S (near the defunct grout vaults). The utilities include potable and process water, construction and operational electrical power systems, and liquid effluent disposal transfer lines to the existing effluent treatment facility (ETF) and the liquid effluent retention facility (LERF).

2.0 GENERAL SYSTEM DESCRIPTION

2.1 Electrical Power System

The electrical power system installation consists of two parts. The first part is to provide construction power (7 Megawatts, 13.8 kV) to the private contractor's construction site. The second part of the electrical power system installation will install a new 230 – 13.8-kV substation and two 230-kV transmission-line segments (3.5 miles). Supervisory control and data acquisition (SCADA) system will be installed during the second part. This equipment may contain equipment that may process dates or contain real-time clocks. Procurement of equipment and materials is scheduled to start in October 1999. Most of the materials purchased before January 2000 will be long lead procurement items such as large power transformers. Procurement of items extends to January 2001.

2.2 Raw, Potable, Fire Water Systems

Non-potable water (raw water) will provided from an existing standpipe. Raw water for process and fire protection purposes will be installed for the private contractor's facility. Water meters will be installed in the potable and raw water supply to measure the water usage by the private contractor.

2.3 Site Development and Roads

Approximately 55 acres will be cleared and graded in preparation for the private contractor's facility. The roadway at the intersection of Canton Street and Route 4S will be widened and an acceleration lane will also be added. A loop road will be construct around the proposed location of the private contractor's facility.

2.4 Liquid Effluent Transfer Piping

Liquid effluent piping will be installed from the ETF/LERF to the proposed site of the private contractor's facilities.

3.0 ASSESSMENT OF YEAR 2000 (Y2K) COMPLIANCE

3.1 Major Subcontracts

3.1.1 Electrical Power System Design

An engineering firm has been selected to design and build the new 230-13.8 kV substation and the two 230-kV transmission-line segments. Construction will not start until March 2000 with long lead-time procurements to start in October 1999.

3.1.2 Construction Contract

A construction firm will be selected to perform the site grading, road construction, installation of water lines, and installation of liquid effluent transfer lines.

3.2 Year 2000 (Y2K) Compliance of System

As described above the SCADA system for the electrical system may contain real time clocks. However, this equipment will be installed after January 2000. Procurement of this equipment has not started. Procurement clauses will be added to procurement documentation requiring that equipment or components to be Y2K compliant.

Data acquisition systems, communication equipment (modems), and process instruments will be purchased to implement a leak detection system for liquid effluent transfers from the private contractor's facility to the ETF and LERF. Design for this equipment has not started. Procurement clauses will be added to procurement documentation requiring that equipment or components to be Y2K compliant.

4.0 TEST PLAN

No special testing Y2K testing is planned. However, all applicable Y2K related dates will be tested as part of the system acceptance testing.

5.0 YEAR 2000 (Y2K) ACTIVITIES, MAJOR MILESTONES, AND DELIVERABLES

No special activities are planned.

6.0 SCHEDULE

No special activities are planned for project. Construction of site roads, installation of raw and potable water lines are scheduled to start in August 1999. The substation and power transmission line construction is scheduled to start in April 2000. Construction of the liquid effluent transfer lines is scheduled to start in October 2000.

7.0 Key Project Documents

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