MAY 20 1998

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

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8. Originator Remarks: Compiles a list of record documents that identify obstructions within the corridors set aside for the construction of transfer/feed pipelines from the AP tank Farm to the TWRS Privatization Facilities.		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: 200-E
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		3. Information	6. Dist. (Receipt Acknow. Required)		3. Disapproved w/comment
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					5. Reviewed w/comment
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(G) Reason	(H) Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp.	(J) Name	(K) Signature
3		Proj. Files (2)			R1-29	3		Central Files	R1-07
			M/A						
3		Design Agent	P. Thakkar (FDNW)	G3-08		3		P. A. Haine	R3-47
								G. Singh	H5-49
1		Cog.Eng.	D.L. Fort (FDNW)	H5-49		3		W. T. Thompson	G3-21
1		Cog. Mgr.	R.J. Parazin	H5-49		3		T. A. Carlson (Project W-465)	H6-37
3		QA	J.F. Bores	G3-21		3		K. A. Gasper	H6-37
3		Safety	M.N. Islam	S5-12		3		B. A. Reynolds (WIT)	A0-21 (3 copies)
3		Env.	P.C. Miller	R1-51		3		T.R. Hoertkorn	B4-56 (3 copies)

18. (R.J. Parazin) Signature of EDT Originator 5/19/98 Date	19. Authorized Representative Date for Receiving Organization	20. (R.J. Parazin) Design Authority/ Cognizant Manager 5/19/98 Date	21. DOE APPROVAL (if required) Ctrl. No. [] Approved [] Approved w/comments [] Disapproved w/comments
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Privatization Contractor Transfer/Feed Line Corridor Obstructions

R. J. Parazin

Numatec Hanford Corporation, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-96RL13200

D. L. Fort

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U.S. Department of Energy Contract DE-AC06-96RL13200

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Abstract: One of the issues that came out of the the Tank Waste Remediation System (TWRS) Privatization Interface Control Document (ICD) effort was the need to identify below grade obstructions that exist where the TWRS Privatization Phase I transfer/feed corridors pass through the former Grout complex (ICD Issue 9C). Due to the numerous phases of construction at the complex, and the lack of consolidated facility configuration drawings, as-built (or as-record) information on the area is difficult to find, let alone decipher. To resolve the issue, this study was commissioned to identify and consolidate the as-record information available (drawings and Engineering Change Notices, ECNs).

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Janis Aardal 5-20-98
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Approved for Public Release

REPORT

**PRIVATIZATION CONTRACTOR
TRANSFER/FEED LINE CORRIDOR
OBSTRUCTIONS**

Prepared for

Numetec Hanford Corporation

May 1998

Subcontract NHC-D-97-0005

Task Order N-14, Line Item 5

Prepared by

Fluor Daniel Northwest
Richland, Washington

L.E. Hall, FDNW Design Engineer

Date

P.I. Thakkar, FDNW Project Manager

Date

TABLE OF CONTENTS

INTRODUCTION	1
CONCLUSIONS	2
APPROACH	3
RECOMMENDATIONS	3
REFERENCES	4

APPENDICES

APPENDIX A.	INTEGRATED SITE PLAN
APPENDIX B.	PRIVATIZATION CONTRACTOR TRANSFER/ FEED LINE CORRIDOR PLANS
APPENDIX C.	LIST OF HISTORICAL JOB ACTIVITIES OR PROJECTS
APPENDIX D.	LIST OF "AS-BUILT" DESIGN DRAWINGS
APPENDIX E.	LIST OF APPLICABLE ENC's & CEO's

REPORT

PRIVATIZATION CONTRACTOR TRANSFER/FEED LINE CORRIDOR OBSTRUCTIONS

INTRODUCTION

The U.S. Department of Energy (DOE) has decided to privatize the treatment and disposal of most of the radioactive hazardous waste contained in the underground mixed waste storage tanks on the Hanford Site. Privatization activities have been divided into two phases. Phase I, a "proof of concept" phase, is to demonstrate the capabilities of privatization through the treatment by two competing vendors of up to 13 percent of the mixed waste at Hanford.

The former grout disposal site was selected for the Phase I facilities for numerous reasons. Foremost: it already has been characterized and, to a degree, developed; it adjoins the planned feed tanks in the 200-East Area; and it is of sufficient size for two competing vendors to carry out the demonstration of pretreating, immobilizing, and vitrifying mixed waste. The former grout compound will be parceled, and each privatization contractor (PC) will be assigned a site for development.

To prepare for PC development of their assigned sites, utilities must be extended from the 200-East Area infrastructure, and corridors defined for the PC(s) to construct waste transfer/feed lines between their facilities and the 241-AP Tank Farm. Near the completion of the proposal stage of Phase I (Phase IA), Interface Control Documents were generated that defined physical interfaces between the PC(s) and the Richland Operations Office (RL) for utilities and land, and established related responsibilities.

One of the issues that came out of the Tank Waste Remediation System (TWRS) Privatization Interface Control Document (ICD) effort was the need to identify below grade obstructions that exist where the TWRS Privatization Phase I transfer/feed corridors pass through the former Grout Complex (ICD Issue 9C). Due to the numerous phases of construction at the complex, and the lack of consolidated facility configuration drawings, as-built (or as-record) information on the area is difficult to find, let alone decipher.

To resolve the issue, this study was commissioned to identify and consolidate the as-record information available (drawings and Engineering Change Notices [ECNs]). This will help identify any planned future use for any of the obstructing elements that may be destroyed or displaced by PC construction activities. As well as getting a handle on what exists in the transfer/feed corridors, the results of the study will be used to finitely define the corridor boundaries so that monuments can be set prior to initiation of lease negotiations with the PC(s). At the moment the corridors are merely defined as non-dimensional hatched areas on a large scale map (see the Integrated Site Plan in Appendix A).

Additionally, Project W-465, Immobilized Low-Activity Waste Interim Storage Facility (Phase I), is currently completing a Conceptual Design effort and has identified some of the features that exist at the former Grout Complex that have an ongoing need by that project (reference

HCF-1975, Rev. 1). This study will provide information that is needed to help integrate with Project W-465.

(INTRODUCTION CONT)

The PC transfer/feed line corridor will start at the existing 241-AP Tank Farm east boundary fence line and then continues due east and through the existing transportable grout equipment facility site. Next, this corridor splits into a north and south segments which are routed around the existing grout disposal vaults. These north and south corridor segments will terminate at the adjacent TWRS privatization phase 1 site parcels A and B. See the Integrated Site Plan in Appendix A.

CONCLUSIONS

Two new consolidated facilities configuration drawings were created to show the existing above and below ground obstruction items within the proposed PC transfer/feed line corridor. Existing Hanford Site documentation from previous activities or installed projects was used as input for these two composite drawings. See the Privatization Contractor Transfer/Feed Line Corridor Plans in Appendix B.

APPROACH

First, a listing of “As-Built” design drawings (microfilms) for all existing facilities located within the proposed PC transfer/feed line corridor was established. The facilities drawing list was developed using the Hanford Local Area Network Soft Reporting, Hanford Site Drawing File SDF002B. Note, the SDF002B file title is “Drawing In BLDG/Drawing Sequence”. See Appendix D for complete list of referenced “As-Built” design drawings.

Second, a listing of applicable ECNs and Change Engineering Orders (CEOs) written for the list of “As-Built” design drawings used to locate existing facilities within the proposed PC transfer/feed line corridor was established. The ECN listings was developed by accessing a system file titled “Drawing Release/Config MGT CNTL SYS”. This file is on HLAN Soft Reporting and located within the Hanford Document Control System file number HDC780. See Appendix E for a list of applicable ECNs and CEOs.

Third, the “As-Built” facilities design drawings and companion ECNs and CEOs that establish the locations of above and below ground obstructing items installed by previous activities or projects were reviewed. See Appendix C for list of historical job activities or projects that installed facilities within the proposed PC transfer/feed line corridor. Next, two consolidated facility configuration drawings were developed to show existing obstructing items installed earlier by various activities or projects.

RECOMMENDATIONS

It is recommended the two new drawings (Privatization Contractor Transfer/Feed Line Corridor Plan, see Appendix B) should be field verified prior to starting any new design or construction activities within the PC transfer/feed line corridor. Field “As-Built” verification of two new drawings should include as a minimum the following activities:

- Verify the locations of all above ground obstruction items as shown on new drawings by a field walk. Document all errors and omissions.
- Verify the locations of all below ground obstruction items as shown on new drawings by completing sub-surface scanning activities in the field. Document all errors and omissions.
- All locations errors or omissions for above/below ground obstructions found during the field verification activities shall be incorporated on two new existing drawings (see Appendix B, Privatization Contractor Transfer/Feed Line Corridor Plan).

REFERENCES

DRAWING NUMBER

DRAWING TITLE

H-2-44501, SH 45, REV 3
 H-2-44501, SH 46, REV 6
 H-2-44501, SH 56, REV 2
 H-2-44501, SH 57, REV 2
 H-2-46923, SH 1, REV 1

H-2-46925, SH 1, REV 1
 H-2-46926, SH 1, REV 1

H-2-46929, SH 1, REV 1

H-2-46930, SH 1, REV 1

H-2-55900, SH -, REV 9
 H-2-56006, SH 1, REV 3

H-2-56006, SH 2, REV 3

H-2-56635, PART 1, REV 3

H-2-64929, SH -, REV 2
 H-2-64938, SH -, REV 2

H-2-69262, SH 1, REV 1

H-2-69262, SH 2, REV 1

H-2-76455, SH 1, REV 1

H-2-76455, SH 2, REV 0
 H-2-76460, SH 1, REV 2
 H-2-76465, SH 1, REV 1

H-2-76472, SH 1, REV 1
 H-2-76480, SH 1, REV 1
 H-2-76481, SH 1, REV 1

Area Map-200 East "A" Plant Facilities
 Area Map-200 East "A" Plant Facilities
 Area Map-200 East "A" Plant Facilities
 Area Map-200 East "A" Plant Facilities
 DWG List/Civil/STRL Key Map, Notes
 Slab Plan & Sect
 Piping Plans ATP Support System
 Piping Sections & Details ATP Support
 System
 Piping Plan (DWG not complete, see ECN-
 01617)
 Piping Section & Details (DWG not
 complete, see ECN-101617)
 Plot Plan
 Cooling Water Disposal System Plan &
 Profile - Purex Waste Disposal Facility
 Cooling Water Disposal System Plan &
 Profile - Purex Waste Disposal Facility
 200 East Area Plot Plan - Process Waste
 System
 Civil Plot Plan & Drawing Index
 Diversion Trench Piping Plan & Details
 (DWG not complete, see ECN-167901,
 ECN-185556, ECN-18559, ECN-157125,
 CEO-042824, CEO-010187 & Field
 Change Notice FCN-054844)
 Civil Plan and Profile 4" Drain To 216-A-
 37-1 Crib
 Civil Plan and Profile 4" Drain To 216-A-
 37-1 Crib
 Civil Site Plan (DWG not complete, see
 ECN-163813, ECN-163814, ECN-129160,
 ECN-192323, ECN-129162, ECN-600406,
 ECN-164437 & CEO-035577)
 Civil Site Plan Details
 Drawing List
 Structural Plan & Sections Water Service
 BLDG
 Piping Plan Supernatant Lines
 Piping Plan Supernatant Lines
 Piping Plan Raw & Sanitary Water (DWG
 not complete, see ECN-130556)

(REFERENCES CONT)

H-2-76481, SH 2, REV 2	Piping Plan Raw & Sanitary Water (DWG not complete, see ECN-130556, ECN-130559 & ECN-129160)
H-2-76517, SH 1, REV 4	Electrical PWR CONT & INSTM DISTR Plans
H-2-76518, SH 1, REV 4	Electrical Elevations, Sections & Details (DWG not complete, see ECN-194934 & ECN-189931)
H-2-76519, SH 1, REV 1	Electrical Site Plan
H-2-76520, SH 1, REV 2	Electrical Pole Line Details
H-2-76520, SH 2, REV 1	Electrical Pole Line Details
H-2-76522, SH 1, REV 2	Electrical Site Plan Fence LTG & High Voltage
H-2-76522, SH 2, REV 0	Site Plan Fence LTG & High Voltage
H-2-76523, SH 3, REV 2	Electrical Fence Lighting Details
H-2-76525, SH 1, REV 1	Electrical Cathodic Protection Plan & Details
H-2-76677, SH 1, REV 1	Electrical Site Plan
H-2-77147, SH 1, REV 2	Civil Site Plan
H-2-77339, SH 1, REV 1	Civil Site Plan & Parking Plan (DWG not complete, see ECN-610980)
H-2-77362, SH 1, REV 1	DWG List, GEN Notes & Specifications
H-2-77363, SH 1, REV 2	Civil/Electrical Site Plan and Details (DWG not complete, see ECN-192322, ECN-129160, ECN-129162, ECN-167970, ECN-600406, ECN-106166 & ECN-164437)
H-2-77573, SH 1, REV 2	Drawing List Area Map (DWG not complete, see Waiver No-100201)
H-2-77573, SH 2, REV 1	Drawing List Area Map
H-2-77574, SH 1, REV 1	Civil Site Plan
H-2-77596, SH 1, REV 2	Piping Plan
H-2-77596, SH 2, REV 2	Piping Plan Profile Grout Line
H-2-77611, SH 1, REV 2	Piping Plan and Details
H-2-77611, SH 2, REV 2	Piping Plan and Details
H-2-77627, SH 1, REV 0	Grout Facility Site Plan
H-2-77634, SH 1, REV 2	Electrical Site Plan
H-2-77638, SH 1, REV 2	Electrical Manhole & Conduit Details
H-2-77638, SH 2, REV 2	Electrical Manhole & Conduit Details
H-2-77645, SH 1, REV 3	Electrical Cathodic Protection Plan
H-2-77645, SH 2, REV 2	Electrical Cathodic Protection Plan
H-2-77646, SH 1, REV 2	Electrical Cathodic Protection Details
H-2-77647, SH 1, REV 1	Electrical Cathodic Protection Details

(REFERENCES CONT)

H-2-77648, SH 1, REV 1
H-2-77719, SH 2, REV 1
H-2-77720, SH 1, REV 1

H-2-77721, SH 1, REV 1
H-2-78443, SH 1, REV 2
H-2-78443, SH 2, REV 1
H-2-78444, SH 1, REV 1
H-2-78467, SH 1, REV 2
H-2-78467, SH 2, REV 1
H-2-78500, SH 1, REV 2
H-2-78511, SH 1, REV 3
H-2-79694, SH 1, REV 0
H-2-90435, SH 4, REV 2
H-2-90436, SH 1, REV 3

H-2-90436, SH 2, REV 1

H-2-90437, SH 1, REV 1

H-2-90437, SH 2, REV 0
H-2-90438, SH 1, REV 1

H-2-90438, SH 2, REV 1
H-2-90438, SH 3, REV 1

H-2-90438, SH 4, REV 1

H-2-90438, SH 5, REV 1

H-2-904768, SH 1, REV 3

H-2-95889, SH 1, REV 0
H-2-98405, SH 1, REV 2
H-2-98406, SH 1, REV 2

Electrical Cathodic Protection Details
Electrical Elevation, DET, Views & Plan
Civil Site Plan Multi-Purpose Facil (DWG not complete, see ECN-168133, ECN-610980 & ECN-106993)
Civil TYP Utility Hook-Up
Drawing List Vaults 104 & 105
Drawing List Vaults 104 & 105
Civil Site Plan
Piping Plan
Piping Plan Profile Grout Line
Electrical Site Plan
Electrical Cathodic Protection Plan
Civil Site Plan
Drawing List
Civil Plot Plan Finish Grading Plan (DWG not complete, see ECN-171168)
Civil Plot Plan Finish Grading Plan (DWG not complete, see ECN-127433)
Civil Site Preparation Plan 241-AP Tank Farm (DWG not complete, see ECN 127433 & CEO-019270)
Drainage Details 241 AP Tank Farm
Civil Profiles and Details 241-AP Tank Farm (DWG not complete, see ECN-127433)
Civil Profiles & Details 241-AP Tank Farm
Civil Profiles and Details 241-AP Tank Farm (DWG not complete, see CEO-037321 & CEO-038161)
Civil Profiles and Details 241-AP Tank Farm
Civil Profiles and Details 241-AP Tank Farm
Electrical Site Plan ST LTG, FA & Controls (DWG not complete, see ECN-171047, ECN-143733, ECN-129368, ECN-162563 & ECN-173472)
Flow Diagram
Drawing List Area Map
Civil Site Plan (DWG not complete, see ECN-170158)

(REFERENCES CONT)

H-2-98422, SH 1, REV 1	Civil Closure Plan (DWG not complete, see ECN-168668, ECN-177286, ECN-177288, ECN-177283, ECN-177290, ECN-177302 & ECN-190600)
H-2-98422, SH 2, REV 1	Civil Closure Plan Misc Details (DWG not complete, see ECN-177283 & ECN-177288)
H-2-98435, SH 1, REV 2	Piping Grout & Excess Water Lines - Plan (DWG not complete, see ECN-168668)
H-2-98436, SH 1, REV 1	Piping Miscellaneous Details
H-2-98436, SH 2, REV 0	Piping Miscellaneous Details (DWG not complete, see ECN-195510)
H-2-98438, SH 1, REV 1	Piping Support Plan & Details Grout & Excess WTR (DWG not complete, see ECN-168668, ECN-170103L, ECN-170121 & ECN-130597L)
H-2-98473, SH 1, REV 1	Electrical Site & Vault Plan & Details (DWG not complete, see ECN-177290)
H-2-98475, SH 1, REV 1	Electrical Details (DWG not complete, see ECN-177290)
H-2-98475, SH 2, REV 1	Electrical Details (DWG not complete, see ECN-177290 & ECN-101376)
H-2-98475, SH 3, REV 1	Electrical Details (DWG not complete, see ECN-177290)
H-2-98600, SH 1, REV 0	Site Grading/Paving Plan
H-2-98610, SH 1, REV 0	Electrical Duct Bank Site Plan Layout
H-2-98611, SH 1, REV 0	Electrical Duct Bank Details and Sections (DWG not complete, see ECN-610980)
H-2-98612, SH 1, REV 0	Electrical Duct Bank Details and Sections
H-2-98637, SH 1, REV 0	Grounding Grid
H-2-98655, SH 1, REV 0	Site Plan (DWG not complete, see ECN-139430 & ECN-610980)
H-2-98665, SH 1, REV 0	Equipment Arrangement LCT/MX Module DWG 1 of 5 (DWG not complete, see Waiver No-100109 & ECN-101454)
H-2-98666, SH 1, REV 0	Equipment arrangement CCT/MT Module DWG 2 of 5
H-2-98806, SH 1, REV 0	Concrete Encasement For Underground Piping
H-2-98807, SH 1, REV 0	Interconnecting Pipe Chase Plans, Sections, Details

(REFERENCES CONT)

H-2-98814, SH 1, REV 0

H-2-98814, SH 2, REV 0

H-2-98837, SH 1, REV 0

H-2-140591, SH 1, REV 1

H-2-140591, SH 2, REV 1

Transportable Grout Equipment Facility

Master DWG Index

Transportable Grout Equipment Facility

- Master DWG Index

Module Interconnecting Piping Layout

Civil Sewage Disposal System Details

Civil/Elec Sewage Disposal System Elec

Plan, Diag & DET

APPENDIX A

INTEGRATED SITE PLAN

SUB-PROJECT:	SCOPE:
W-503	ELECTRICAL SUBSTATION
W-504	RAW AND POTABLE WATER
W-505	SITE DEVELOPMENT/ROADS
W-506	LIQUID EFFLUENTS

SCOPE:
ELECTRICAL SUBSTATION
RAW AND POTABLE WATER
SITE DEVELOPMENT/ROADS
LIQUID EFFLUENTS

LEGEND:

CIRCUMFERENTIAL
 TRANSFER FEED LINE CONDUIT

TRANSFER FEED LINE CORRIDOR

UPGRADED ROAD

PURE WATER
POURABLE WATER
ON-BOARD ELECTRIC

OWAD ELECTRIC
WASHINGTON STATE GRID SYSTEM
COORDINATE IN METERS
E 576700

 FLUOR DANIEL NORTHWEST

Prepared By/Date DJ WHITISH/05-29-97	HNF-2756A Rev. 6	CD FILE IW505C01
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HNF-SD-W505-CDR-001, Rev 0

APPENDIX B

**PRIVATIZATION CONTRACTOR TRANSFER/FEED
LINE CORRIDOR PLANS**

PRIVATIZATION CONTRACTOR
TRANSFER/FEED LINE
CORRIDOR PLAN

SCALE: 1"=1500'
HORIZONTAL DATUM: WGS83S91
UNITS: METERS

- WADSE ZONE BOREHOLE
- GROUND WATER MONITORING WELL

ITEM	FACILITY	DRAWING NO.
1	30" VCP COOLING WATER	H-2-44501
2	30" VCP COOLING WATER	H-2-64929
3	36" CW-CMP	H-2-90437
4	4" PC M20	H-2-90437
5	4" PC M20	H-2-69282
6	CONC. SLAB OVER 4" PC M20	H-2-76465
7	SANITARY DRAIN FIELD	H-2-76465
8	SANITARY DRAIN FIELD	H-2-140891
9	15" CHEMICAL SEWER LINE	H-2-90437
10	MO574	H-2-76465
11	UNDERGROUND ELECTRICAL CONDUIT	H-2-76522
12	WASTEWATER TRENCH	H-2-46929
13	RECEIVING TANK TRENCH	H-2-46929
14	2" GROUT LINE	H-2-98435
15	2" EXCESS WATER	H-2-46929
16	2" GROUT M25	H-2-77596
17	2" EXCESS WATER	H-2-98473
18	ELECTRICAL DUCT BANK	H-2-77645
19	CATHODIC PROTECTION	H-2-77720
20	3% 2.5" CONDUIT	H-2-78467
21	2" SANITARY WATER	H-2-78500
22	2" EXCESS WATER	H-2-78511
23	CATHODIC PROTECTION	H-2-77627

FLUOR DANIEL NORTHWEST

Prepared By/Date
J CURTIS / 5-14-98
HNF-2756-B1
VITCOMPW

ELLUM
W-503

TRANSFER FEED LINE CORRIDOR

OUT DR.

216-A-37-1

4" PC M20

EXST VAULTS

SCALE 1:1500
HORIZONTAL DATUM: WGS83391
UNITS: METERS

- VADOSE ZONE BOREHOLE
- GROUND WATER MONITORING WELL

ENLARGED VIEW
PRIVATIZATION CONTRACTOR
TRANSFER/FEED LINE
CORRIDOR PLAN

FLUOR DANIEL NORTHWEST

Prepared By/Date
J CURTIS / 5-14-98
HNF-2756-B2
WTCOMPWB

APPENDIX C

LIST OF HISTORICAL JOB ACTIVITIES OR PROJECTS

APPENDIX C

LIST OF HISTORICAL JOB ACTIVITIES OR PROJECTS

PROJECT OR JOB NO	APPROX DATE OF "AS-BUILT"	PROJECT OR JOB TITLE
B-100	12/76	242-A Evaporator Crystallizer Facility
B-112A	3/77	Purex Effluent Diversion Facilities
B-340	9/86	241-AP Tank Farm
B-475	*	Transportable Grout Equipment Facility
B-475A	10/87	TGE ATP Support System
B-492	7/86	Shallow Land Disposal Site
B-566-B	10/88	Grouted Waste Disposal Facilities
B-568	10/86	Grout Disposal Area Enclosure
B-714	9/93	Grout Vault Pair (218-E-16-102 & 103)
B-714	12/93	Grout Vault Pair (218-E-16-104 & 105)
230210	8/88	CHNG/Lunch Room Trailer - Grout Facility
245490	7/89	DMRHF CHG TRLR/Grout Multi-Purpose Facility
ER2567	9/93	Grout Processing Support Facility
ER9089	*	Grout Treatment Facility
R192G0	12/85	Power to CAMS
R295A2	11/83	241 AP-Tank Farm

*Existing record project drawings show no record of being "As-Built".

APPENDIX D

LIST OF “AS-BUILT” DESIGN DRAWINGS

LIST OF "AS-BUILT" DESIGN DRAWINGS

H-2-44501, SH 45	H-2-77596, SH 2
H-2-44501, SH 46	H-2-77611, SH 1
H-2-44501, SH 56	H-2-77611, SH 2
H-2-44501, SH 57	H-2-77627
H-2-46923	H-2-77634
H-2-46925	H-2-77638, SH 1
H-2-46929	H-2-77638, SH 2
H-2-46930	H-2-77638, SH 3
H-2-55900	H-2-77645, SH 1
H-2-56006, SH 1	H-2-77645, SH 2
H-2-56006, SH 2	H-2-77646
H-2-56635	H-2-77647
H-2-64929	H-2-77648
H-2-64938	H-2-77719
H-2-69262, SH 1	H-2-77720
H-2-69262, SH 2	H-2-77721
H-2-76455, SH 1	H-2-78443, SH 1
H-2-76455, SH 2	H-2-78443, SH 2
H-2-76460	H-2-78444
H-2-76465	H-2-78467, SH 1
H-2-76472	H-2-78467, SH 2
H-2-76480	H-2-78500
H-2-76481, SH 1	H-2-78511
H-2-76481, SH 2	H-2-79694
H-2-76517, SH 1	H-2-90435, SH 4
H-2-76518, SH 1	H-2-90436, SH 1
H-2-76519	H-2-90436, SH 2
H-2-76520, SH 1	H-2-90437, SH 1
H-2-76520, SH 2	H-2-90437, SH 2
H-2-76522, SH 1	H-2-90438, SH 1
H-2-76522, SH 2	H-2-90438, SH 2
H-2-76523, SH 3	H-2-90438, SH 3
H-2-76525, SH 1	H-2-90438, SH 4
H-2-76677	H-2-90438, SH 5
H-2-77147	H-2-90468
H-2-77339	H-2-95889
H-2-77362	H-2-98405
H-2-77363	H-2-98406
H-2-77573, SH 1	H-2-98422, SH 1
H-2-77573, SH 2	H-2-98422, SH 2
H-2-77574	H-2-98435, SH 1
H-2-77596, SH 1	H-2-98436, SH 1

LIST OF "AS-BUILT" DESIGN DRAWINGS (CONT)

H-2-98436, SH 2
H-2-98438
H-2-98473
H-2-98475, SH 1
H-2-98475, SH 2
H-2-98475, SH 3
H-2-98600
H-2-98610
H-2-98611
H-2-98612
H-2-98637
H-2-98655
H-2-98665
H-2-98666
H-2-98806
H-2-98807
H-2-98814, SH 1
H-2-98814, SH 2
H-2-98837
H-2-140591, SH 1
H-2-140591, SH 2

EXAMPLE OF A TYPICAL PALE FROM THE HLAN SOFT REPORTING HANFORD SITE DRAWING FILE SDF002B

SDF002B

SDF - SITE DRAWING FILE
DRAWING LIST IN BUILDING/DRAWING SEQUENCE

Page 2450
04/17/98 05:00 AM

Page 6 for Building 0200E

DRAWING	SHEET	REV	STATUS	DRAWING TITLE / (*REMARKS IF CONSIDERED OF GENERAL INTEREST*)	# of BLDGS AFFECTED	APPROVED
H 020071645	001	1		PIPING PLANS ELEVATIONS & SECTIONS 241A & 202A	1	10/1985
H 020071646	001	1		PIPING DETAILS 241B & BX AREAS	1	10/1985
H 020071647	001	21		PIPING DETAILS 221B & 241B AREAS	1	10/1985
H 020071648	001	1		PIPING PLANS 241C AREA	1	10/1985
H 020071670	001	1		PIPING ENLOD PLAN & SECT 241ER 1ST & 241ER 311	1	12/1976
H 020071709	001	1		AREA MAP 200 EAST TELEPHONE CABLE INSTALLATION	2	09/1976
H 020071710	001	0		AREA MAP 200 WEST TO EAST TELEPHONE CABLE INSTAL	2	12/1982
H 020071778	001	3		ELEC BLOCK DIAGRAM + DRAWING INDEX	1	08/1982
H 020072531	001	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	002	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	003	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	004	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	005	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	006	1		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	1	08/1982
H 020072531	007	2		LONG TERM CATHODIC PROTECTION PLAN 200 EAST	2	06/1997
H 020073825	001	8		ELECTRICAL PWR INSTR HT TRACE DISTR PLAN SYSTEM 2	2	11/1992
H 020073825	002	6		ELEC PWR INSTR HT TRACE DISTR PLAN-SYS 2	2	09/1991
H 020073825	003	0		ELEC PWR INSTR HT TRACE DISTR PLAN-SYS 2	2	09/1991
H 020073825	004	0		ELEC PWR INSTR HT TRACE DISTR PLAN-SYS 2	2	09/1991
H 020073825	005	0		ELEC PWR INSTR HT TRACE DISTR PLAN-SYS 2	2	09/1991
H 020073825	006	0		ELEC PWR INSTR HT TRACE DISTR PLAN-SYS 2	1	05/1979
H 020074425	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074426	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074427	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074428	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074429	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074430	001	0		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	05/1979
H 020074431	001	1		WASTE MANAGEMENT FACILITIES-200 EAST AREA	1	11/1983
H 020075549	001	1		ELECTRICAL GATE 814-TV TOWER INSTALLATION DETAIL	1	11/1983
H 020075555	001	1		ELECTRICAL COMMUNICATIONS NETWORK SITE PLAN	1	05/1984
H 020075557	003	1		ELECTRICAL COMMUNICATIONS NETWORK BLOCK DIAG	1	07/1986
H 020076455	001	1		CIVIL SITE PLAN	1	07/1986
H 020076455	002	0		CIVIL SITE PLAN DETAILS	1	03/1989
H 020076460	001	2		DRAWING LIST	1	07/1986
H 020076465	001	1		STRUCTURAL PLAN & SECTIONS WATER SERVICE BLDG	1	09/1992
H 020076471	001	2		ENGINEERING FLOW DIAGRAM	1	07/1986
H 020076480	001	1		PIPING PLAN SUPERATANT LINES	1	03/1989
H 020076481	001	2		PIPING PLAN RAW & SANITARY WATER	1	03/1989
H 020076481	002	2		PIPING PLAN RAW & SANITARY WATER	1	03/1989
H 020076482	001	2		PIPING SECTIONS & DETAILS	1	03/1989
H 020076482	002	0		PIPING SECTIONS & DETAILS	1	03/1989
H 020076482	003	0		PIPING DETAILS	1	03/1989

APPENDIX E

LIST OF APPLICABLE ECNs AND CEOs

LIST OF APPLICABLE ECNs AND CEOs

ECN-101617	ECN-177288
ECN-167901	ECN-177283
ECN-185556	ECN-177290
ECN-185559	ECN-177302
CEO-042824	ECN-190600
CEO-010187	ECN-195510
ECN-157125	ECN-170103L
FCN-054844	ECN-170121
CEO-035577	ECN-130597L
ECN-163813	ECN-101376
ECN-163814	ECN-139430
ECN-192323	ECN-100109
ECN-129160	ECN-101454
ECN-129162	
ECN-600406	
ECN-164437	
ECN-130556	
ECN-130559	
ECN-194934	
ECN-189931	
ECN-610980	
ECN-192322	
ECN-129162	
ECN-167970	
ECN-600406	
ECN-106166	
Waiver No-100201	
ECN-168133	
ECN-106993	
ECN-171168	
ECN-127433	
CEO-019270	
CEO-037321	
CEO-038161	
ECN-171047	
ECN-143733	
ECN-129368	
ECN-162563	
ECN-173472	
ECN-170158	
ECN-168668	
ECN-177286	

**EXAMPLE OF A TYPICAL PAGE FROM THE HLAN SOFT REPORTING
HANFORD DOCUMENT CONTROL SYSTEM NUMBER HDC 780
TITLED DRAWING RELEASED/CONFIG MGT CNTL SYS**

HDCS780 04/21/98 19:00

DRAWINGS RELEASED INTO THE
CONFIGURATION MANAGEMENT CHANGE CONTROL SYSTEM

Page 2878

Drawing Number	Sheet	Rev	Release Date	Design Authority	Essential/Support Title	ECN Number	Release Date	Work Comp Date	Building
H 020076463	001	2	Sep 19, 1986	WHC	STRUCTURAL TYPICAL DETAILS				0241AP
H 020076464	001	1	Sep 19, 1986	WHC	STRUCTURAL TYPICAL DETAILS				0241AP
H 020076465	001	1	Jul 21, 1986	WHC	STRUCTURAL PLAN & SECTIONS WATER SERVICE BLDG				0200E
H 020076471	001	2	Sep 24, 1992	WHC	ENGINEERING FLOW DIAGRAM	ECN-130582 ECN-644728 ECN-177296	May 14, 1991 Nov 20, 1997 Feb 17, 1994	Aug 30, 1993 Nov 20, 1997 Mar 23, 1994	0200E
H 020076472	001	1	Sep 18, 1986	WHC	PIPING PLAN SUPERNATANT LINES				0241AP
H 020076473	001	3	Jul 13, 1994	WHC	PIPING PLAN AND SECTION 241-AP-020 PUMP PIT				0241AP
H 020076474	001	2	Sep 18, 1986	WHC	PIPING DETAILS 02D PUMP PIT				0241AP
H 020076475	001	1	Sep 18, 1986	WHC	PIPING DETAILS 02D PUMP PIT				0241AP
H 020076476	001	1	Sep 18, 1986	WHC	PIPING SUPPORT PLAN				0241AP
H 020076477	001	1	Sep 18, 1986	WHC	PIPING EXPANSION VOID DETAILS				0241AP
H 020076478	001	1	Sep 18, 1986	WHC	PIPING SUPPORT DETAILS				0241AP
H 020076480	001	1	Sep 18, 1986	WHC	PIPING MISCELLANEOUS DETAILS				0241AP
H 020076481	001	2	Apr 3, 1989	WHC	PIPING PLAN RAM & SANITARY WATER	ECN-130556	Feb 26, 1991	Sep 9, 1992	0200E
	002	2	Apr 3, 1989	WHC	PIPING PLAN RAM & SANITARY WATER	ECN-130556 ECN-130559 ECN-129160	Feb 26, 1991 Mar 8, 1991 Aug 19, 1992	Sep 9, 1992 Sep 9, 1992	0200E
H 020076482	001	2	Apr 3, 1989	WHC	PIPING SECTIONS & DETAILS	ECN-177276 ECN-106157 ECN-193531 ECN-604317	Jun 28, 1993 Apr 6, 1989 Jun 15, 1993 Jan 27, 1994	Apr 18, 1994 Oct 6, 1989 Apr 18, 1994 Apr 18, 1994	0200E
	002	0	Apr 3, 1989	WHC	PIPING SECTIONS & DETAILS	ECN-145979 ECN-193531 ECN-604317	Sep 26, 1990 Jun 15, 1993 Jan 27, 1994	Apr 18, 1994 Apr 18, 1994	0200E
	003	0	Apr 3, 1989	WHC	PIPING DETAILS				0200E
	004	0	Apr 3, 1989	WHC	PIPING DETAILS	ECN-130556	Feb 26, 1991	Sep 9, 1992	0200E
H 020076483	001	2	Apr 3, 1989	WHC	PIPING PLAN SECT & DETAILS WATER SERVICE BLDG	ECN-130556 ECN-101713	Feb 26, 1991 Jun 15, 1988	Sep 9, 1992 Jun 22, 1988	0200E
H 020076484	001	1	Jul 21, 1986	WHC	PIPING SUPPORT PLAN				0200E
H 020076485	001	1	Jul 24, 1986	WHC	PIPING SUPPORT DETAILS				0200E
H 020076486	001	1	Jul 24, 1986	WHC	PIPING EXPANSION VOID DETAILS				0200E
H 020076487	001	1	Jul 24, 1986	WHC	JUMPER ASSEMBLY 3-1, 3-2, 3-3 TO TANK				0241AP
H 020076488	001	2	Jul 24, 1986	WHC	JUMPER ARRANGEMENT CENTRAL PUMP PIT 241-AP-02A				0241AP
H 020076489	001	2	Jul 24, 1986	WHC	PIPING JUMPER ARRG 02D PUMP PIT	ECN-130582 ECN-101127 ECN-177295 ECN-177296 ECN-101221	May 14, 1991 Apr 29, 1988 Feb 24, 1994 Feb 17, 1994 Jun 9, 1988	Aug 30, 1993 Oct 18, 1988 Mar 23, 1994 Mar 23, 1994	0241AP