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1	1	Cog. Eng. RN Dale	<i>[Signature]</i>	9/1/98	S7-12						
1	1	Cog. Mgr. JS Schofield	<i>[Signature]</i>	9/1/98	S7-12						
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DRAWING EVALUATION REPORT FOR SAMPLING EQUIPMENT DRAWINGS

G.W. Wilson

COGEMA Engineering Corp., Richland, WA 99352

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Abstract: This report documents the results of an evaluation of Characterization sampling equipment drawings for compliance with existing procedures on establishing drawing categories.

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DRAWING EVALUATION REPORT
FOR SAMPLING EQUIPMENT

Prepared for Characterization Engineering by

G. W. Wilson

COGEMA ENGINEERING CORPORATION

September 1998

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1.0 INTRODUCTION

This document presents the results of a task to evaluate Tank Waste Remediation System (TWRS) sampling equipment drawings and identifies drawings category as either essential, support, or general drawings. This report completes the drawing evaluation task as outlined in Engineering Task Plan For Truck 3 & 4 Drawing Compliance and Evaluation (Wilson, 1997).

2.0 SCOPE

The scope of this report is limited to an evaluation and identification of drawing category for drawings of certain tank waste sampling equipment for which the TRWS Characterization Project has been assigned custody, including: vapor sampling, grab sampling, auger sampling, and all core sampling equipment (see LMHC Task Order 304). This report does not address drawings for other waste tank deployed equipment systems having similar assigned custody, such as, Light Duty Utility Arm (LDUA), Cone Penetrometer system, or Long Length Contaminated Equipment (LLCE). The LDUA drawings are addressed in the Characterization Equipment Essential Drawings (HNF 1998). The Cone Penetrometer system drawings which are vendor drawings (not H- series) is not currently turned over to operations for deployment. The LLCE equipment was just recently assigned to Characterization Project and were not included in the original scope for this evaluation and will be addressed in the evaluation update scheduled for fiscal year 1999.

3.0 APPLICATION

Engineering Drawing Requirements (HNF 1997) defines the drawing categories as follows.

- a. Essential - Drawings necessary to directly support the safe operation or maintenance of the facility.
- b. Support - Drawings that further describe the design details of structure, systems, of components shown of essential drawings or are frequently used by the support staff.

- c. General - Drawings that are historical in nature or not frequently used in the operation or maintenance of the facility.

All TWRS sampling equipment is mobile equipment that is not directly associated with any one facility. Therefore, this application implemented the requirements of Engineering Drawings Requirements (HNF 1997) tempered by the fact that this equipment is not a permanent on-line facility.

The drawings identified as generally meeting the description of essential consist of the the following types:

- * Drawings that describe equipment required for safe operations (drill string arrangements)
- * Drawings that depict flow diagrams (hydraulic, pneumatic, and P&ID diagrams)
- * Drawings that depict electrical connections (elementary and one-line diagrams)
- * Drawings that depict electrical power connection (one-line and connection diagrams)

4.0 DRAWING CLASSIFICATION

The following sections are a detailed listing of the drawings that were evaluated and assigned drawing category. The listings shows the drawing category assigned in the Cat.column with an E for drawings that are determined to be essential drawings, an S for support drawing, and a G for general drawings. For specific information about equipment drawings, refer to the specified section of this document.

Core Sample Truck 1 Drawings	See Section 4.1
Core Sample Truck 1 and 2 Drawings	See Section 4.2
Core Sample Truck 2 Drawings	See Section 4.3
RCST Truck 3 and 4 Drawings	See Section 4.4
Core Sampling Support Equipment Drawings	See Section 4.5
RCST Exhauster Drawings	See Section 4.6
Other Sampling Equipment Drawings	See Section 4.7

4.1 CORE SAMPLE TRUCK 1 DRAWINGS

Table 4.1 Core Sample Truck 1 Drawings

Dwg. No.	Sht.	Description	Cat.	Justification/Notes
H-2-38075	1-5	Shielded Receiver Assembly	S	
H-2-81790	1	Hydrostatic Head Addition System Flow Diagram	G	Installed, not used
H-2-81832	1-2	Drill Rig Junction Box Enclosure Assembly	G	
H-2-81833	1-2	Hydraulic Bottom Detector Alarm Panel Assembly	S	
H-9-90257	1	Core Sampler Latch Mechanism Assembly & Detail	G	Not Used
H-2-91390	1-2	Grapple Hoist Installation	S	Note: Important for Maintenance
H-2-91391	1-5	Grapple Hoist Assembly	S	Note: Important for Maintenance
H-2-91392	1-5	Grapple Hoist Box Assembly	S	Note: Important for Maintenance
H-2-91393	1	Grapple Hoist Box Housing Assembly	G	
H-2-91394	1	Encoder Panel Assembly	G	
H-2-91395	1	Core Sampler Truck Details	G	Not Used
H-2-91397	1-4	Pressure Readout Display Cabinet	G	
H-2-91477	1	Shielded Receiver Assembly	G	Not Used
H-2-91583	1	Quill Rod Stop Truck 1	G	
H-2-91650	1	Core Sampler Truck 1 Drawing Index	S	
H-2-91651	1-3	Shielded Receiver Assembly	G	

Table 4.1 Core Sample Truck 1 Drawings

Dwg. No.	Sht.	Description	Cat.	Justification/Notes
H-2-91652	1	Shielded Receiver Weather Cover Assembly	G	
H-2-91653	1-3	Sampler Hoist Assembly	S	Note: Important for Maintenance
H-2-91654	1-2	Sampler Hoist Housing Assembly	G	
H-2-91655	1-2	Sampler Hoist Load Stand Assembly	G	
H-2-91656	1	Sampler Hoist Cable Wiper Assembly	G	
H-2-91657	1	Sampler Hoist Cable Drum Assembly	G	
H-2-91658	1	Sampler Hoist Cable Feed Assembly	G	
H-2-91659	1	Sampler Hoist Cover Assembly	G	
H-2-91660	1	Shielded Receiver Mount Assembly	G	
H-2-91661	1	Sampler Hoist Cable Guide Assembly	G	
H-2-91663	1-3	Shielded Receiver Base Assembly	G	
H-2-91664	1	Shielded Receiver Tube Section Assembly	G	
H-2-91686	1-2	Grapple Hoist Rotary Valve Actuator	S	Note: Important for Maintenance
H-2-91688	1	Quill Rod Adapter Truck 1	G	Not used
H-2-91701	1-7	Truck Assembly Core Sampler Truck #1	S	Note: Important for Maintenance

Table 4.1 Core Sample Truck 1 Drawings

Dwg. No.	Sht.	Description	Cat.	Justification/Notes
H-2-91701	8	Truck Assembly Core Sampler Truck #1	E	-Depicts Equipment Essential to Safe Operation (Z-Purge Diagram)
H-2-91701	9-10	Truck Assembly Core Sampler Truck #1	S	Note: Important for Maintenance
H-2-91714	1-2	Drill Head Service Platform #1 Assembly	G	
H-2-91719	1-3	Hydraulic Installation	S	Note: Important for Maintenance
H-2-91720	1-3	Core Sampler Truck #1 Hydraulic Flow Diagram	E	-Depicts High-Pressure Process Diagram
H-2-91721	1-3	Drillhead Hydraulic Piping Install	S	Note: Important for Maintenance
H-2-91722	1-2	Grapple & Grapple Hoist Installation	G	Not Used
H-2-91723	1-4	Grapple Hoist Assembly	G	Not Used
H-2-91724	1-5	Grapple Box Assembly	G	Not Used
H-2-91725	1	Grapple Box Housing Assembly	G	Not Used
H-2-92264	1	Control and Power Cable Assembly	G	
H-2-92315	1	Hydraulic and Sampler Actuator Control Panel	G	
H-2-92420	1-3	Electrical Installation	S	Note: Important for Maintenance
H-2-92421	1-4	Control Console Assembly	S	Note: Important for Maintenance

Table 4.1 Core Sample Truck 1 Drawings

Dwg. No.	Sht.	Description	Cat.	Justification/Notes
H-2-92422	1-6	Core Sample Truck #1 Connection Diagram	E	-Depicts Equipment Essential to Safe Operation, -Depicts Isolation Boundary for Electrical or High-Pressure Fluid Systems
H-2-92432	1-2	Shield Receiver Electrical Installation	S	Note: Important for Maintenance
H-2-92433	1	Panel Assembly - Circuit Breaker	G	
H-2-92434	1	Panel Detail -Circuit Breaker	G	
H-2-99726	1-2	Shielded Receiver Tube Replacement	G	
H-2-827186	1-3	Electrical Truck 1 Connection Diagram	E	-Depicts Electrical Power Diagrams
H-2-827190	1	Electrical Truck 1 One-Line Diagram	E	-Depicts Electrical one-line Diagram

4.1.1 Summary for Truck 1 Drawings**Table 4.1.1 Summary for Truck 1 Drawings**

Category	Drawings	Sheets
General Drawings	32	52
Support Drawings.	14*	49
Essential Drawings.	5	14

*Note: Drawing H-2-91701 is included in the essential drawing total.

4.2 CORE SAMPLE TRUCK 1 and 2 DRAWINGS**Table 4.2 Core Sample Truck 1 & 2 Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-91428	1-2	Shielded Receiver View Port Assembly	G	
H-2-91665	1-3	Remote Latch Unit Assembly	G	
H-2-91666	1	3" Ball Valve Modification Assembly	G	
H-2-91667	1	Dust Cap and Sleeve Assembly	G	
H-2-91668	1	Remote Latch Unit Weight Assembly	G	Not Used
H-2-91669	1	Sampler Hoist Interlock Assembly	G	
H-2-91702	1-3	Core Sampler Truck Bed Assembly	G	
H-2-91703	1	Lower Frame & Rotation Stop Assembly	G	
H-2-91704	1	Lower Frame Assembly	G	
H-2-91705	1	Lower Bearing Mount Assembly	G	
H-2-91706	1-2	Stationary Platform Assembly	G	
H-2-91707	1-2	Rotating Platform Assembly	S	Note: Important for Maintenance
H-2-91708	1-2	Rotating Platform Weldment Assembly	G	
H-2-91709	1	Bearing Plate Detail	G	
H-2-91710	1-5	Rotating & Stationary Platform Safety Rails Assembly	G	
H-2-91711	1-2	Switch Mounts, Stops & Brackets Assembly & Details	G	

Table 4.2 Core Sample Truck 1 & 2 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-91712	1	Slide Rail Details	G	
H-2-91713	1	Control Console Support Frame	G	
H-2-91715	1	Shielded Receiver Lifting Frame Installation	G	
H-2-91716	1-4	Shielded Receiver Lifting Frame Assembly	G	
H-2-91717	1	Air Compressor Frame Assembly	G	
H-2-91718	1-2	Rear Jack Assembly	G	
H-2-92423	1	Motor Control Chassis Assembly	G	
H-2-92424	1-2	Panel and Control Chassis Assembly	G	
H-2-92427	1	Latching Control Chassis Assembly	G	
H-2-92428	1-2	Latching Control Chassis Details	G	
H-2-92429	1	Latch Control Panel Assembly	G	
H-2-92430	1	Latch Control Circuit Board Details	G	
H-2-92431	1	Latch Control Logic Diagram	S	
H-2-92435	1	Vent Panel Assembly	G	

4.2.1 Summary for Truck 1 & 2 Drawings**Table 4.2.1 Summary for Truck 1 & 2 Drawings**

Category	Drawings	Sheets
General Drawings	28	46
Support Drawings.	2	3
Essential Drawings.	0	0

4.3 CORE SAMPLE TRUCK 2 DRAWINGS**Table 4.3 Core Sample Truck 2 Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-131570	1	Sampler Hoist Cable Drum Assembly	G	
H-2-140300	1-3	Core Sampler Truck 2 Assembly	S	Note: Important for Maintenance
H-2-140301	1-2	Drawing Index Core Sampler Truck 2	S	Note: Important for Maintenance
H-2-140302	1-6	Drill Rig Equipment Installation	G	
H-2-140303	1-6	Electrical Installation	S	Note: Important for Maintenance
H-2-140304	1-2	Drill Rig Junction Box Enclosure Assembly	G	
H-2-140305	1-2	Hydraulic Bottom Detector Alarm Panel Assembly & Details	G	
H-2-140306	1	Up Limit Switch Proximity Probe	G	
H-2-140307	1-2	Aux Air Supply Installation	G	

Table 4.3 Core Sample Truck 2 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-140308	1-3	Truck Frame Assembly	G	
H-2-140309	1-2	Center Outrigger Jack Assembly	G	
H-2-81785	1-17	Core Sample Truck #2 Electrical Connection Diagram	S	Note: Important for Maintenance
H-2-81834	1-5	Grapple Hoist Installation	S	Note: Important for Maintenance
H-2-81835	1-2	Grapple Hoist Mounting Support Assembly	G	
H-2-81836	1-6	Grapple Hoist Assembly	S	Note: Important for Maintenance
H-2-81837	1-2	Grapple Hoist Housing Assembly	G	
H-2-81838	1-4	Purge Gas Enclosure Assembly	G	
H-2-81839	1-5	Purge Gas Piping Assembly	S	Note: Important for Maintenance
H-2-81840	1-3	Control Console Assembly	G	
H-2-81841	1-6	Purge Gas Piping and Hose Installation	S	Note: Important for Maintenance
H-2-81844	1-3	Quill Rod Assembly	G	Not used
H-2-81845	1-2	Kamlock Adapter Assembly	G	
H-2-81846	1-3	Hydraulic Reservoir Assembly	G	
H-2-81848	1-2	Grapple Hoist Rotary Valve Actuator Assembly	G	
H-2-81849	1	Remote Latch Unit Weight Assy	G	
H-2-81850	1-8	Hydraulic Controls Installation	S	Note: Important for Maintenance
H-2-81851	1	Cable Connection Diagram	G	

Table 4.3 Core Sample Truck 2 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-81852	1	Overall Electrical Power Distribution Diagram	G	Duplicates information on H-2-827187
H-2-81854	1	Loadcell Readout Assembly	G	
H-2-81855	1-2	Front Jack Assembly	G	
H-2-82102	1-3	Line Conditioner & Control Select Panel Assembly	G	
H-2-82103	1	Line Conditioner & Control Select Panel Installation	G	
H-2-821454	1-4	Breathing Air Piping Installation	G	Note: Installed but not used
H-2-83111	1-7	Core Sampler Truck #2 Elementary Diagrams	E	-Depicts Equipment Essential to Safe Operation -Depicts Required Alarm Systems -Depicts & Identifies Instrumentation Required by AB
H-2-83112	1-6	Instrument Enclosure Assembly	S	Note: Important for Maintenance
H-2-83115	1-4	Purge Gas Assembly	S	Note: Important for Maintenance
H-2-83307	1-5	Sampler Hoist Assembly	S	Note: Important for Maintenance
H-2-83308	1-3	Sampler Hoist Housing Assembly	G	
H-2-83309	1-2	Shielded Receiver Base Assembly	G	
H-2-83310	1-2	Sampler Hoist Load Stand	G	
H-2-83314	1-4	Shielded Receiver Assembly	S	Note: Important for Maintenance

Table 4.3 Core Sample Truck 2 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-83315	1-2	Shielded Receiver Electrical Assembly	S	Note: Important for Maintenance
H-2-83316	1-3	Shielded Receiver Weather Cover Assembly	G	
H-2-83391	1-3	Hydraulic Flow Diagram	E	-Depicts Process Diagrams
H-2-85068	1-2	Purge Gas Pneumatic Diagram	E	-Depicts High Pressure Process & Instrumentation Diagram
H-2-89435	1-4	Drillhead Service Platform Installation	G	
H-2-89436	1-3	Drillhead Service Platform Assembly	G	
H-2-89437	1-2	Rpm Sensing Ring Installation	G	
H-2-89438	1-4	Penetration Rate Assembly	G	
H-2-89439	1-5	Drillhead Service Platform Assembly	G	
H-2-89440	1-2	Pressure Indicator Light Assembly	G	
H-2-89441	1	Circuit Breaker Panel Detail	G	
H-2-89442	1-3	Drillhead Hydraulic Installation	S	Note: Important for Maintenance
H-2-89443	1-5	Inner/Outer Bellows Assembly	S	Note: Important for Maintenance
H-2-89444	1	Cable Wiper Assembly	G	

Table 4.3 Core Sample Truck 2 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-89459	1-13	Alarm & Control Diagram	E	-Depicts Equipment Essential to Safe Operation -Depicts & Identifies Instrumentation Required by AB
H-2-89462	1	Purge Gas Connection Box	G	
H-2-89463	1-2	Purge Gas Cable Assembly	G	
H-2-827187	1-8	Electrical Truck 2 Connection Diagram	E	- Depicts Electrical Power Diagram
H-2-827191	1	Electrical Truck 2 One Line Diagram	E	-Depicts Electrical One- line Diagram

4.3.1 Summary of Core Sample Truck 2**Table 4.3.1 Summary for Truck 2 Drawings**

Category	Drawings	Sheets
General Drawings	38	89
Support Drawings.	16	87
Essential Drawings.	6	34

4.4 CORE SAMPLE TRUCK 3 & 4 DRAWINGS**Table 4.4 RMCST 3 & 4 Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690000	1-2	RMCST Truck 3 & 4 Assembly	S	
H-2-690001	1-2	RMCST Truck 3 & 4 Drawing Index	S	Note: Important for Maintenance
H-2-690005	1-5	Drill Rig Equipment Installation	G	
H-2-690006	1-3	Hydraulic Reservoir Assembly	G	
H-2-690007	1-2	Pressure Indicator Light Assembly	G	
H-2-690008	1-3	Hydraulic Flow Diagram	E	-Depicts Process Diagrams
H-2-690009	1-2	Purge Gas Pneumatic Diagram	E	-Depicts High Pressure Process & Instrumentation Diagram
H-2-690010	1-3	Truck Frame Assembly	G	
H-2-690011	1-2	Center Outrigger Jack Assembly	G	
H-2-690012	1-6	Purge Gas Piping & Hose Installation	S	Note: Important for Maintenance
H-2-690013	1-2	Auxiliary Air Supply Installation	G	
H-2-690014	1-3	Drill Head Hydraulic Piping Installation	S	Note: Important for Maintenance
H-2-690015	1-8	Hydraulic Controls Installation	S	Note: Important for Maintenance
H-2-690016	1-3	Intercom System Installation	G	
H-2-690017	1-2	Rear Jack Assembly	G	
H-2-690020	1-4	Shielded Receiver Assembly	S	Note: Important for Maintenance

Table 4.4 RMCST 3 & 4 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690021	1-3	Line Conditioner & Control Electrical Panel Assembly	G	
H-2-690022	1	Shielded Receiver Tube Assembly	G	
H-2-690023	1	3" Ball Valve Modification"	G	
H-2-690024	1	Dust Cap and Sleeve Assembly	G	
H-2-690025	1-2	View Port Shielded Receiver	G	
H-2-690026	1-2	Shielded Receiver Electrical Installation	S	Note: Important for Maintenance
H-2-690027	1-2	Shielded Receiver Base Assembly	G	
H-2-690028	1-6	Shielded Receiver Weather Cover	G	
H-2-690030	1-4	Sampler Hoist Assembly	S	Note: Important for Maintenance
H-2-690031	1-3	Sampler Hoist Cable Feed Assembly	G	
H-2-690032	1	Sampler Hoist Cable Guide Assembly	G	
H-2-690033	1-2	Sampler Hoist Load Stand Assembly	G	
H-2-690034	1-4	Sampler Hoist Housing Assembly	G	
H-2-690035	1-4	Breather Air Piping Installation	G	Note: Installed but not Used
H-2-690036	1-2	Sampler Hoist Cable Drum Assembly	G	
H-2-690037	1	Sampler Hoist Interlock Assembly	G	
H-2-690039	1	Remote Latch Unit Weight Assembly	G	

Table 4.4 RMCST 3 & 4 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690040	1-5	RMCST Truck Bed Assembly	G	
H-2-690041	1-4	Rotary & Stationary Platform Rail Assembly	G	
H-2-690042	1-2	Stationary Platform Assembly	G	
H-2-690043	1	Shielded Receiver Lifting Frame Installation	G	
H-2-690044	1-2	Shielded Receiver Lifting Frame Assembly	G	
H-2-690046	1	Lower Frame Assembly	G	
H-2-690048	1	Lower Bearing Mount Assembly	G	
H-2-690049	1	Lower Frame & Rotary Stop Assembly	G	
H-2-690050	1-5	Drillhead Service Platform Installation	G	
H-2-690051	1-3	Quill Rod Assembly	G	Used as spare for Truck 2
H-2-690052	1-2	Grapple Rotary Valve Actuator	G	
H-2-690053	1-4	Penetration Rate Assembly	G	
H-2-690054	1-2	Rpm Sensing Ring Installation	G	
H-2-690055	1-5	Grapple Hoist Installation	S	Note: Important for Maintenance
H-2-690056	1-2	Grapple Hoist Mounting Support	G	
H-2-690057	1-7	Grapple Hoist Assembly	S	Note: Important for Maintenance
H-2-690058	1-2	Grapple Hoist Housing Assembly	G	
H-2-690059	1-6	Inner/Outer Bellows Assembly	S	Note: Important for Maintenance

Table 4.4 RMCST 3 & 4 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690060	1-4	Purge Gas Assembly	S	Note: Important for Maintenance
H-2-690061	1-4	Purge Gas Enclosure Assembly	G	
H-2-690062	1-5	Purge Gas Piping Assembly	S	Note: Important for Maintenance
H-2-690063	1-3	Purge Gas Connection Box	G	
H-2-690064	1-2	Purge Gas Cable Assembly	G	
H-2-690065	1	Up Limit Switch Proximity Probe	G	
H-2-690066	1-3	Drillhead Service Platform Assembly	G	
H-2-690067	1-5	Drillhead Service Platform Assy	G	
H-2-690068	1-7	Instrument Enclosure Assembly	S	Note: Important for Maintenance
H-2-690069	1-18	Alarm & Control Diagram	E	-Depicts Required Alarm Systems and Equipment Essential to Safe Operation
H-2-690070	1-7	Elementary Diagram	E	-Depicts Equipment Essential to Safe Operation
H-2-690071	1-17	Electrical Connection Diagram	S	Note: Important for Maintenance
H-2-690073	1-7	Electrical Installation	S	Note: Important for Maintenance
H-2-690074	1-2	Hydraulic Bottom Detector Alarm Panel Assembly	G	
H-2-690076	1-2	Drill Rig Junction Box Enclosure Assembly	G	

Table 4.4 RMCST 3 & 4 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690080	1-3	Rotary Platform Assembly	S	Note: Important for Maintenance
H-2-690081	1-2	Rotary Platform Weldment	G	
H-2-690082	1	Bearing Plate Assembly	G	
H-2-690083	1	Rotary Stop Assembly	G	
H-2-690084	1	Slide Rail Details	G	
H-2-690085	1	Control Console Support Frame Assembly	G	
H-2-690090	1-3	Control Console Assembly	G	
H-2-690092	1-3	Motor Control Chassis Assembly	G	
H-2-690094	1-2	Encoder Panel Assembly	G	
H-2-690095	1-2	Loadcell Readout Assembly	G	
H-2-690096	1-2	Hydraulic & Sampler Actuator Control Panel	G	
H-2-690097	1	Panel Detail Circuit Breaker	G	
H-2-690098	1	Vent Panel Assembly	G	
H-2-690106	1-3	Front Jack Assembly	G	
H-2-690143	1-2	Mechanical Remote Latch Unit	S	Note: Important for Maintenance
H-2-827188	1-7	Electrical Truck 3 Connection Diagram	E	-Depicts Electrical Power Diagrams
H-2-827189	1-7	Electrical Truck 4 Connection Diagram	E	-Depicts Electrical Power Diagrams
H-2-827192	1	Electrical Truck 3 One Line Diagram	E	-Depicts Electrical One-line

Table 4.4 RMCST 3 & 4 Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-827193	1	Electrical Truck 4 One Line Diagram	E	-Depicts Electrical One-line

4.4.1 Summary RMCST 3 & 4 Drawings**Table 4.4.1 Summary RMCST 3 & 4 Drawings**

Category	Drawings	Sheets
General Drawings	59	138
Support Drawings.	18	94
Essential Drawings.	8	46

4.5 CORE SAMPLING SUPPORT EQUIPMENT DRAWINGS**Table 4.5 Core Sampling Support Equipment Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-34727	1	Core Sampling Cask	G	Not Used
H-2-34994	1	Core Sampling Shipping Cask Arrangement	G	Not Used
H-2-34995	1	Core Sampling Shipping Cask Detail	G	Not Used
H-2-34996	1	Core Sampling Shipping Cask	G	Not Used
H-2-36057	1	Core Sampling Flapper Assembly	G	Not Used
H-2-36511	1	Core Drill Pipe Fitting	G	Not Used

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-36514	1	Core Sampling Seal	G	Not Used
H-2-36766	1	Core Sampling Equipment Arrangement	G	Not Used
H-2-36769	1	Core Sampling 12-in Flange	G	Not Used
H-2-38078	1	On-site Transfer Cask Stand	S	
H-2-38079	1-6	On-site Transfer Cask	S	
H-2-38191	1	Arrangement and Detail Core Sampler and Drill	G	
H-2-38192	1	Assembly and Detail Adapter Flange Spray Washer Spray	G	
H-2-38193	1	Portable Core Sampling Platform	G	
H-2-38194	1	Drip Pan for Core Sample	G	
H-2-38195	1	Commercial Drill Equipment Mod	G	
H-2-38196	1	Misc Detail and Arrangement for Core Sampling	G	
H-2-74814	1-5	Cask Truck	G	
H-2-74815	1	Cask Truck	G	
H-2-74816	1	Cask Truck	G	
H-2-74819	1	Cask Truck	G	
H-2-74820	1	Cask Truck	G	
H-2-79076	1-2	Mobile Core X-Ray System	G	
H-2-79840	1	Service Trailer Truck 1	G	Not Used
H-2-79841	1-3	Service Trailer Truck 1	G	Not Used

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-79842	1-2	Service Trailer Truck 2	G	
H-2-79843	1-2	Service Trailer Truck 2	G	
H-2-81842	1-2	Cable Spray Washer Assy	G	
H-2-81843	1	Cable Spray Washer Housing	G	
H-2-81853	1-6	Support Truck	G	
H-2-83319	1-2	Cask Truck, Unit 1	G	
H-2-83320	1-4	Cask Truck, Unit 1	G	
H-2-83323	1-2	Cask Truck Detail, Unit 2	G	
H-2-83324	1-4	Unit 2 Cask Truck	G	
H-2-83325	1-5	Unit 1 Support Truck	G	
H-2-85064	1-3	Sampler Valve Housing Removal Tool	G	Used in Lab
H-2-85066	1-2	Changeout Valve	G	Not Used
H-2-85287	1-2	Mobile Air Charger Assembly	G	
H-2-85299	1	Nitrogen Trailer Hose Reel Installation	G	
H-2-85327	4	Panelboard Schedule, Electrical Distribution Trailer #1	E	Already Essential (Other sheets of this drawing are NOT for sampling equip.)
H-2-85327	5	Panelboard Schedule, Electrical Distribution Trailer #2	E	Already Essential (Other sheets of this drawing are NOT for sampling equipment.)
H-2-85340	1	Distribution Trailer One-Line Diagram	E	-Depicts Electrical One-line
H-2-85341	1	Electrical Distribution Trailer #2	G	

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-85342	1	Electrical Distribution Trailer #1	G	
H-2-85345	1	Core Barrel Assembly	G	Not Used
H-2-85350	1-2	Sampling Electrical Distribution. Trailer	G	
H-2-85358	1-4	Portable Platform Assembly	G	
H-2-85601	1-2	Breathing Air Compressor Electrical One-Line Diagram	E	
H-2-90257	1	Core Sampler Latch Mechanism	G	Not Used
H-2-91291	1-5	Sampler Hot Cell Unloader	G	Not Used
H-2-91330	1	Pull Rod Magnetic Retrieval Tool	G	
H-2-91331	1	Magnetic Positioning Tools	G	
H-2-91398	1	Sampler Hot Cell Unloader	G	Not Used
H-2-91422	1-2	Sampler Shoe Assembly	G	Not Used
H-2-91425	1-2	Drill Bit Modification	G	Not Used
H-2-91426	1	Drill Bit Modification	G	Not Used
H-2-91427	1-2	Drill Bit Plug Remover	G	Not Used
H-2-91490	1-5	Sampler Hot Cell Unloader	G	Not Used
H-2-91497	1-3	Core Sampler Assembly and Detail	G	Not Used
H-2-91498	1-3	Core Sampler Assembly and Detail	G	Not Used
H-2-91502	1	Core Catcher Assembly and Detail	G	Not Used

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-91503	1-3	Core Catcher Assembly and Detail	G	Not Used
H-2-91526	1	12" Tank Riser Arrangement	G	Not Used
H-2-91527	1-2	12" Drill Rod Guide	G	Not Used
H-2-91539	1	8" Tank Riser Arrangement	G	Not Used
H-2-91540	1-2	8" Drill Rod Guide	G	Not Used
H-2-91544	1	6" Tank Riser Arrangement	G	Not Used
H-2-91545	1-2	6" Drill Rod Guide	G	Not Used
H-2-91546	1	12" X 6" Riser Adapter Assembly	G	Not Used
H-2-91549	1	4" Tank Riser Arrangement	G	
H-2-91550	1-2	4" Drill Rod Guide	G	Not Used
H-2-91551	1	12" X 4" Riser Adapter	G	Not Used
H-2-91570	1-2	Hot Cell Sample Removal Tool	G	Not Used
H-2-91574	1-3	Drill String Arrangement	G	
H-2-91575	1	Core Barrel Assembly	G	Not Used
H-2-91670	1	Drill Rodwasher Housing Assembly and Details	G	
H-2-91671	1-3	Drill Rodwasher Manifold Assembly and Details	G	
H-2-91672	1	Cover Plate Assembly	G	
H-2-91673	1	12" X 18" Riser Adapter Assembly and Details	G	
H-2-91674	1-3	Transport Cask Stand Assembly and Details	G	

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-91675	1	Cask Adapter Assembly and Details	G	
H-2-91676	1	PVC Sleeve Details	G	Not Used
H-2-91677	1-2	Kamlock Adapter Assembly Core Sampler Truck #1	G	
H-2-91678	1	Dust Cap Assembly	G	
H-2-91679	1-2	Hoist Cable Spray Washer Assembly	G	Not used
H-2-91680	1	Hoist Cable Washer Housing Assembly	G	Not used
H-2-91684	1	Modified Quadralatch	G	Not Used
H-2-91685	1-2	1" Rotary Sludge Sampler	G	Not Used
H-2-91687	1	Reusable Pull Rod Overpack Assembly	G	Not Used
H-2-94558	1	Sample Truck Hoist Trolley	G	
H-2-99316	1-4	Sludge Sampler 7/8	G	Not Used
H-2-99332	1	12" X 4" Riser Adapter	G	
H-2-99333	1	12" X 6" Riser Adapter	G	
H-2-99334	1	12" X 8" Riser Adapter	G	
H-2-99335	1	12" X 4" Riser Adapter	G	
H-2-99336	1	6, 8 & 4" X 4" Offset Riser Adapter	G	
H-2-99347	1	6, 8, 10, & 12" Offset Riser Adapter	G	
H-2-99725	1-5	Transfer Cask-NCAW	S	

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-99727	1-2	Ebr-2 Storage Cask Modified	G	
H-2-99729	1	Ebr-2 Cask/shield Receiver Adapter	G	
H-2-99730	1	Drill String Burial Container	G	
H-2-99731	1-2	NCAW Transport Cask Lifting Bail	G	
H-2-99732	1	Drill String Burial Container	G	
H-2-99733	1-2	Drill String Burial Container Assembly	G	
H-2-99734	1	Drill String Burial Container Detail	G	
H-2-99735	1	Drill String Burial Container Detail	G	
H-2-99736	1	Drill String Burial Container Detail	G	
H-2-99738	1-2	Cask Field Loading Stand	G	
H-2-99739	1	Handling Tools NCAW Cask	G	
H-2-99740	1-2	Viewport Camera	G	
H-2-99741	1	Drill String Burial Container Support	G	
H-2-99742	1	Support Stand Detail	G	
H-2-99743	1	Support Stand Detail	G	
H-2-99744	1	Support Stand Detail	G	
H-2-690045	1-4	Maintenance Platform	G	
H-2-690124	1-2	Downforce Calibration Stand	G	

Table 4.5 Core Sampling Support Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-690125	1-2	Grapple Hoist Test Stand	G	
H-2-690127	1	Misc Equipment	G	
H-2-690128	1-2	Riser Sleeve Assembly	G	
H-2-690130	1-2	Int Drill Rod Removal Tool	G	
H-2-690131	1-2	Riser Sleeve Spray Wash Assembly	G	
H-2-690132	1	Riser Adapter Assembly	G	
H-2-690133	1-2	Sampler Changeout Assembly	G	
H-2-690134	1-5	Drill String Arrangement	E	- Depicts containment boundaries
H-2-690136	1-2	Offset Riser Adapter	G	
H-2-690137	1	Core Sampler Inserts	G	
H-2-690139	1	Casting Finger	G	
H-2-690140	1-6	Core Sampler Assembly	S	Note: Important for Maintenance
H-2-821457	1-4	Drill String Arrangements	E	-Depicts equipment Essential to Safe Operation
H-2-825312	1	Transfer Cask Modifications and Lifting Bail	G	
H-2-826513	1-2	Drill Rod Purge Installation	G	
H-9-000174	1	Purge Gas Trailer Assembly	E	ECN adds drawing sheets to show flow schematic diagram for N ₂ trailer
H-14-021922	1-2	Breathing Air Compressor P&ID	E	- Process and Instrumentation Diagram

4.5.1 Summary for Core Sampling Support Equipment Drawings**Table 4.5.1 Summary of Core Sampling Support Equipment Drawings**

Category	Drawings	Sheets
General Drawings	115	205
Support Drawings	4	18
Essential Drawings	7	17

4.6 RMCST SAMPLING EXHAUSTER DRAWINGS**Table 4.6 RMCST Exhauster Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-14-0030122	1-3	Core Sampling Vent Equipment	S	Will be superseded by new drawings when modification work is complete
H-14-100739	1-2	Exhauster Heater Assembly	G	Will be superseded by new drawings when modification work is complete
H-14-100740	1-2	Misc Detail RMCS Exhauster C	G	
H-14-100741	1	Regulator Assembly	G	Not Used
H-14-100742	1-2	Breather Vent Stack	G	
H-2-818186	1-4	Exhauster Assembly	G	Used by AR Vault
H-2-818188	1	Plenum Assembly	G	
H-2-818189	1-3	RMCS External Skid Electrical Details	G	Used by AR Vault

Table 4.6 RMCST Exhauster Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-818201	1-2	RMCS Skid Electrical Assembly	G	
H-2-818202	1-4	Misc Detail Exhauster	G	
H-2-818204	1	Bottle Rack Assembly RMCS	G	Not used
H-2-818205	1	Pre Filter Stand Assembly RMCS	G	Not used
H-2-818206	1-2	Lift Assembly RMCS	G	
H-2-821455	1-5	RMCS Exhauster Assembly II	G	Will be superseded by new drawings when modification work is complete
H-2-821456	1-2	RMCS Exhauster Skid Assembly II	G	Will be superseded by new drawings when modification work is complete
H-2-829081	1-2	Overall Assy Exhauster C	S	
H-2-829082	1-2	Mechanical Installation Exhauster C	S	
H-2-829083	1-3	Stack Instrumentation Exhauster C	S	
H-2-829084	1-3	Sampling Exhauster Heater Assembly Exhauster C	S	
H-2-829085	1-3	Skid Assembly Exhauster C	G	
H-2-829086	1-4	Instrument & Control Panel Assembly Exhauster C	S	Demonstrates Compliance with Laws & Regulations
H-2-829087	1-5	Stack Enclosure Assembly Exhauster C	G	

Table 4.6 RMCST Exhauster Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-829088	1-2	Record Sampler Enclosure Assembly Exhauster C	G	
H-2-829089	1-2	Cam Probe Enclosure Assembly Exhauster C	G	
H-2-829090	1-2	Lower Weather Shield Assembly Exhauster C	G	
H-2-829091	1-2	Upper Weather Shield Assembly Exhauster C	G	
H-2-829100	1	Drawing Tree Exhauster C	S	
H-2-829105	1-5	Electrical Installation	S	
H-2-829106	1	Piping and Instrumentation Diagram Exhauster C	E	
H-2-829107	1-2	Variable Frequency Drive Exhauster C	G	
H-2-829108	1-4	Instrument Enclosure Connection Diagram Exhauster C	S	
H-2-829110	1-3	Exhauster Electrical Interconnect Exhauster C	E	
H-2-829111	1-2	Junction Box Detail Exhauster C	G	
H-2-829120	1-2	Overall Assy Exhauster B	S	
H-2-829121	1-2	Mechanical Installation Exhauster B	S	
H-2-829122	1-3	Stack Instrumentation Exhauster B	S	

Table 4.6 RMCST Exhauster Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-829123	1-3	Sampling Exhauster Heater Assembly Exhauster B	S	
H-2-829124	1-3	Skid Assembly Exhauster B	G	
H-2-829125	1-4	Instrument & Control Panel Assembly Exhauster B	S	
H-2-829126	1-5	Stack Enclosure Assembly Exhauster B	G	
H-2-829127	1-2	Record Sampler Enclosure Assembly Exhauster B	G	
H-2-829128	1-2	Cam Probe Enclosure Assembly Exhauster B	G	
H-2-829129	1-2	Lower Weather Shield Assembly Exhauster B	G	
H-2-829130	1-2	Upper Weather Shield Assembly Exhauster B	G	
H-2-829134	1	Piping and Instrumentation Diagram Exhauster B	E	
H-2-829135	1-5	Electrical Installation Exhauster B	S	
H-2-829136	1-2	Variable Frequency Drive Exhauster B	G	
H-2-829137	1-4	Instrument Enclosure Connection Diagram Exhauster B	S	
H-2-829139	1-3	Exhauster Electrical Interconnect Exhauster B	E	
H-2-829140	1-2	Junction Box Detail Exhauster B	G	

Table 4.6 RMCST Exhauster Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-829141	1	Drawing Tree Exhauster B	S	Important to Maintenance

4.6.1 Summary for RMCST Exhauster Drawings**Table 4.6.1 Summary for RMCST Exhauster Drawings**

Category	Drawings	Sheets
General Drawings	30	72
Support Drawings.	17	51
Essential Drawings.	4	8

4.7 OTHER SAMPLING EQUIPMENT DRAWINGS**Table 4.7 Other Sampling Equipment Drawings**

Dwg.	Sht.	Description	Cat.	Justification/Notes
		AUGER SAMPLING DRAWINGS		
H-2-79960	1-7	Surface Sampler Auger Assembly	S	
H-2-826321	1-2	Auger Bit	S	
		GRAB SAMPLING DRAWINGS		
H-2-37844	1-3	Instrumentation Miscellaneous Installation Details	S	
H-2-85602	1-5	Supernatant and Sludge Sampler	S	

Table 4.7 Other Sampling Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-85645	1-2	Tri-Pod and Bottle Hoist for Supernatant and Sludge Sampler	S	
H-2-826597	1-2	Table Assembly for Supernatant and Sludge Sampler	S	
		VAPOR SAMPLING DRAWINGS		
		TYPE 3		
H-2-815402	1-2	VSS Piping and Instrumentation Diagram	G	Not Used
H-2-815403	1	VSS Mimic Panel Assemblies	G	Not Used
H-2-815404	1-2	VSS Control Rack Assemblies	G	Not Used
H-2-815405	1-2	VSS I/O Rack Module Assy	G	Not Used
H-2-815406	1	VSS Drawing Index Tree	G	Not Used
H-2-815407	1-3	VSS Exterior Component Rack Assemblies	G	Not Used
H-2-815408	1-19	VSS Control Diagram	G	Not Used
H-2-815409	1-3	VSS Control Rack Interconnect Diagram	G	Not Used
H-2-815410	1-2	VSS I/O Rack Interconnect Diagrams	G	Not Used
H-2-815411	1	VSS Cabling Arrangement	G	Not Used
H-2-815412	1-3	VSS Interior Interconnect Diagram	G	Not Used
H-2-815413	1	VSS Solid State Relay Panel Assy	G	Not Used
H-2-815414	1-5	VSS Facility Interior Electrical	G	Not Used
H-2-815415	1	VSS Cable Assemblies	G	Not Used

Table 4.7 Other Sampling Equipment Drawings

Dwg.	Sht.	Description	Cat.	Justification/Notes
H-2-815417	1	VSS Intrinsic Barrier Box Assembly	G	Not Used
H-2-815418	1	VSS Heat Control Elementary Diagram	G	Not Used
H-2-815419	1-6	VSS Mechanical Installation	G	Not Used
		TYPE 4		
H-2-825301	1	In-Situ Sample Head Assembly & Details	S	
H-2-825313	1-7	Vapor Sampling Cart Assembly & Details	S	
H-2-825314	1-2	Vapor Sampling Cart Electrical Installation and Interconnect Diagram	S	

4.7.1 Summary for Other Sampling Equipment Drawings**Table 4.7.1 Summary for Other Sampling Equipment Drawings**

Category	Drawings	Sheets
General Drawings	17	54
Support Drawings.	9	31
Essential Drawings.	0	0

5.0 SUMMARY

The results of the drawing evaluation of Characterization sampling equipment are summarized in Table 5.1. The table shows both number of drawings and number of sheets.

Table 5.1 Drawing Evaluation Summary

Equipment	Drawing Category		
	General (Dwgs/Sheets)	Support (Dwgs/Sheets)	Essential (Dwgs/Sheets)
Truck 1	32/52	14/49	5/14
Truck 1 & 2	28/46	2/3	0/0
Truck 2	38/89	16/87	6/34
Truck 3 & 4	59/138	18/94	8/46
Support Equipment	115/205	4/18	7/17
Exhauster	30/72	17/51	4/8
Other Sampling Equipment	17/54	9/31	0/0
TOTALS	319/656	80/333	30/119
GRAND TOTAL of Characterization Drawings (Dwgs/Sheets)		429/1108	

Only two of the drawings that are identified as essential are currently marked "Essential Drawing". Therefore, when funding is available, the rest of the drawings need to be updated to comply with the designated category. When the drawings for Trucks 3 and 4 are updated, it may be necessary to establish unique drawings for each truck for most of the essential drawings. Truck 3 and 4 drawings may also require unique drawings for some of the next used on assembly drawings.

6.0 REFERENCES

HNF, 1997, HNF-PRO-242, Rev. 1, *Project Hanford Policy and Procedure System, Engineering Drawing Requirements*, Fluor Daniel Hanford, Inc., Richland, Washington

HNF, 1998, HNF-3240, Rev. 0, *Characterization Equipment Essential Drawing Plan*, Lockheed Martin Hanford Corporation, Richland, Washington.

Wilson, 1997, HNF-SD-WM-ETP-216, Rev. 1, *Engineering Task Plan for Truck 3 & 4 Drawing Compliance and Evaluation*, Lockheed Martin Hanford Corporation, Richland, Washington