DISTRIBUTION SHEET

To Distribution	From K Basin Engineering Project	Page 1 of 1
		Date 09/01/94
Project Title/Work Order 305 BUILDING COLD TEST FACILITY MANAGEMENT PLAN		EDT No. 606312
		ECN No. N/A

Name	MSI N	Text With All Attac h.	Text Only	Attach. / Append ix Only	EDT/E CN Only
C. J. Alderman	N1-21	X			
S. C. Anglesey	X2-15	X			
J. B. Crystal	R3-86	X			
L. V. Feigenbutz	N1-21	X			
J. R. Frederickson	R3-86	X			
A. T. Kee	R3-86	X			
D. May	R3-86	X			
F. W. Moore	N1-25	X			
G. L. Neer	L6-13	X			
C. C. Pitkoff	R3-86	X			
D. W. Smith	R3-85	X			
R. M. Steele	N1-21	X			
D. B. Tullis	N1-80	X			
R. Whitehurst	R3-86	X			
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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 606312

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) K Basin Engineering Project	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: 305 Cold Test Facility	6. Cog. Engr.: JB Crystal	7. Purchase Order No.: N/A
8. Originator Remarks: APPROVAL / RELEASE		9. Equip./Component No.: 305
		10. System/Bldg./Facility: 305
11. Receiver Remarks:		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: 9/16/94

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-SNF-PCP-001	A11	0	305 BUILDING COLD TEST FACILITY MANAGEMENT PLAN	Q	1	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	4. Review	1. Approved	4. Reviewed no/comment
		2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment
		3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment	6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)										(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
1	1	R3-86 Cog.Eng. JB Crystal	<i>[Signature]</i>	9/13/94	13-86	SC Anglesey	<i>[Signature]</i>	9/13/94	13-86	1	1
1	1	Cog. Mgr. JR Frederickson	<i>[Signature]</i>	9/13/94	13-86	FW Moore	<i>[Signature]</i>	9/13/94	13-86	1	1
1	1	QA DW Smith	<i>[Signature]</i>	9/13/94	13-86	TA-20	<i>[Signature]</i>	9/13/94	13-86		
1	1	Safety/SA Norling	<i>[Signature]</i>	9/13/94	13-86	NI-25	<i>[Signature]</i>	9/13/94	13-86		
		Env.									
1	1	MJ Wiemers	<i>[Signature]</i>	9/30/94	13-86						
1	1	GL Neer	<i>[Signature]</i>	9/14/94	13-86	L6-13	<i>[Signature]</i>	9/14/94	13-86		

18. R Whitehurst <i>[Signature]</i> 9/12/94 Signature of EDT Originator	19. JR Frederickson Authorized Representative Date for Receiving Organization	20. JR Frederickson <i>[Signature]</i> 9/14/94 Cognizant Manager Date	21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
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RELEASE AUTHORIZATION

Document Number: WHC-SD-SNF-PCP-001, Rev.0

Document Title: 305 Building Cold Test Facility Management Plan

Release Date: October 3, 1994

* * * * *

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

APPROVED FOR PUBLIC RELEASE

* * * * *

WHC Information Release Administration Specialist:

C. Willingham

C. Willingham

(Signature)

10-3-94

(Date)

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SUPPORTING DOCUMENT

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305 BUILDING COLD TEST FACILITY MANAGEMENT PLAN

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6. Author

Name: R. Whitehurst

Signature

Organization/Charge Code 2C110/KK5PR

A. Luybery For C. Willingham 10-3-94
**APPROVED FOR
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OFFICIAL RELEASE

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DATE

OCT 03 1994

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9. Impact Level

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WHC-SD-SNF-PCP-001 REV. 0

**305 BUILDING COLD TEST FACILITY
MANAGEMENT PLAN**

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305 BUILDING COLD TEST FACILITY MANAGEMENT PLAN

1.0 PURPOSE

This document provides direction for the conduct of business in Building 305 for cold testing K-Basin tools and equipment. The Cold Test Facility represents a small portion of the overall building, and as such, the work instructions already implemented in the 305 Building will be utilized.

2.0 SCOPE

Specific to the Cold Test there are three phases for the tools and equipment as follows:

1. Development and feature tests of sludge/fuel characterization equipment, fuel containerization equipment, and sludge containerization equipment to be used in K-Basin.
2. Functional and acceptance tests of all like equipment to be installed and operated in K-Basin.
3. Training and qualification of K-Basin Operators on equipment to be installed and operated in the Basin.

3.0 DESCRIPTION

The primary test pool located within 305 Bldg. is 15 ft wide, 18 ft long and 15 feet deep, below floor level. A working grating is located approximately 6 feet above floor level, to simulate K Basin grating. The pool's liquid volume is approx. 4000 cu. ft or 30,000 gallons, or 113,400 liters. This pool will be used for development, feature testing, functional and acceptance testing, and operator training.

Two secondary test pools are located outside the 305 Bldg. The first pool is a square steel open topped vessel measuring 16 ft x 16 ft by 16 inches deep. The second pool is a round plastic pool 7 ft diameter by 5 ft high. These two pools will be primarily used for development.

4.0 PRECAUTIONS

1. The Hazardous Material Specialist must approve any chemical/liquid being brought into the facility, this includes hydraulic fluid and oils. Some materials may require a "Material Logsheet" to be submitted.
2. Discharge through the building drains must conform to administration manual WHC-IP-1000, Section 3.3 entitled "Waste Acceptance Criteria for the 300 Area Process Sewer and the Treated Effluent Disposal Facility."
3. Refer to the 305 Work Standards section of the 305 Desk Instruction for operation of building cranes, forklift, power equipment or power tools. Note that Building 305 is not an office environment and requires extra diligence anytime you are in the building. The very nature of a lab or development facility is that there are additional hazards that must be recognized. Every person coming into the facility must be aware and sensitive of their surroundings and potential hazards and have had facility orientation.
4. Training and qualification requirements for operation of specific equipment shall be assessed by the System Engineer. At a minimum all equipment with special operation or safety requirements shall require training and qualification.

5.0 REQUIREMENTS

5.1 ADMINISTRATIVE REQUIREMENTS

Any person working in Building 305 shall follow the "305 Administration Desk Top Instructions" and the Industrial Safety Manual WHC-CM-4-3. Training and qualification of personnel on those systems or equipment with special operations or safety requirements shall be conducted. Attachment 1 is an example for the System Engineer Qualification record. Attachment 2 is an example of other individual training/qualification records. Additional specific requirements for each phase are discussed below.

1. For equipment/tool development and feature tests, a 305 Building Work Plan/Instruction and Job Safety Review form must be submitted. The 305 Building Manager (or designee) shall approve all 305 work plans and job safety review sheets. See Attachment 3 and 4 for examples, (forms may be found on Site Forms).

Any safety item identified on the Job Safety Review form must be explained in the "remarks" area of the form or on an attachment. Details on the specific hazard (pressure, flow rates, chemicals, etc.) shall be included.

Equipment/system performance criteria, mechanical and electrical operational limitations, material needed, and an overall set of goals and features to be tested shall be included in the Work Plan/Instruction package.

2. For functional and acceptance tests of equipment, ie: for qualification for use in K-Basin, each piece of equipment or system requires a Test Plan and a Test Procedure. Refer to WHC-CM-6.1, EP 4.1 and EP 4.2 for Design Verification and Testing Requirements. Testing of Safety Class 1, 2 or designated 3 items (as classified for K Basins use) shall be conducted in accordance with WHC-CM-4-2, QR 11.0.
3. For operator qualifications a Training Plan is required and will be submitted by the K-Basin Training Department for each piece of equipment or system. If not already in place an approved 305 Building Work Plan/Instruction and Job Safety Review or approved Test Plan/Test Procedure must be in place to cover operations during training.

5.2 TECHNICAL REQUIREMENTS

Technical requirements can be found in the "305 Building K Basin Mockup Facility" Functions and Requirements document (WHC-SD-SNF-FRD-005).

6.0 SCHEDULE

The schedules for testing at the Cold Test Facility will be handled by a Feature Schedule organized by the separate system tests. Each Test Plan or Training Plan will include such a schedule. An integrated schedule will also be developed taking into consideration resource loading and budget.

7.0 BUDGET

Funding for Building 305 support and facility usage will be by separate baseline funding over the entire usage period. Funding for individual tests will come from that system's budget.

8.0 ORGANIZATIONAL RESPONSIBILITIES

WHC K BASIN ENGINEERING PROJECT

It is responsibility of the organization to:

1. Control all test activities for the Cold Test Facility.
2. Assure all Work Plans/Instructions, Job Safety Reviews, Test Plans and Test Procedures are submitted.
3. Produce the test schedule, budget planning and funding and any support needed to complete the project tasks.
4. Provide management overview to any other contractor performing Cold Test Facility tasks.

WHC K BASIN ENGINEERING PROJECTS MANAGER

The responsibility of the manager is to:

1. Oversee coordination of all Cold Test Facility activities. All WHC System Managers report to this manager.

WHC SYSTEM MANAGERS

The responsibility of the manager is to:

1. Provide management overview for specific system/equipment development and tests assigned by the Cold Test Facility Manager.
2. Approve all assigned test plans and test procedures.
3. Certify that System Engineers are qualified for operation of any equipment that has inherent safety concerns or special operations requirements.
4. Determine the training requirements of personnel working in or around such equipment for the Cold Test Facility and ensure the requirements are fulfilled.
5. Maintain training and qualification records.

WHC SYSTEM ENGINEERS

The responsibility of the engineer is to:

1. Provide specific system/equipment for development and for tests assigned by the System Manager.
2. Generate and approve all assigned test plans and test procedures.
3. Qualify on any equipment that has inherent safety concerns or special operations requirements necessary to their responsibility.
4. Provide appropriate training, once qualified, for personnel working in or with such equipment.
5. May assume responsibilities of a Test Engineer as directed by System Manager. For the purpose of the Cold Test Facility a System Engineer is synonymous with Cognizant Engineer.

WHC SNF 305 COLD TEST FACILITY INTEGRATOR

It is the responsibility of the Integrator to:

1. Coordinates all activities in the 305 K Basin Cold Test Facility as the representative of K Basin Engineering Project.
2. Produce and update the 305 Cold Test Facility integrated schedule using feature schedules provided by the system engineers.
3. Provide interface with the 305 Building management and personnel to establish priorities and requirements.
4. Provide the central interface with other K Basin Engineering Project personnel.
5. Maintain an index of 305 Cold Test Facility tests.

WHC 305 BUILDING MANAGEMENT

It is the responsibility of management to:

1. Assure safety of all work in the 305 Bldg.
2. Approve all Work Plan/Instruction, Job Safety Reviews and Test Procedures.
3. Provide technician, craft and management support for the Cold Test program installation, modifications, testing and disassembly.
4. Provide maintenance activities for the Cold Test Facility.
5. Provide approval for any hazardous waste being brought into the building.

WHC K BASIN TRAINING

It is the responsibility of training to:

1. Provide any training plan or related documentation for training of the operators.
2. Provide personnel and coordinate training with the facility manager and facility integrator.

SNFP QA

It is the responsibility of QA to:

1. Approve all test plans and test procedures as required.

ATTACHMENT 1

305 COLD TEST FACILITY
SYSTEM ENGINEER EQUIPMENT/SYSTEM QUALIFICATION
(EXAMPLE)

This letter certifies the qualification of _____ (System Engineer) to both operate and provide training, and subsequent qualification to other individuals in the operation of the _____. The following items substantiates this qualification:

- _____ Reviewed equipment operating manual
- _____ Reviewed all safety related issues pertaining to use of equipment specific to the 305 Cold Test Facility and it's environment
- _____ Discussed operation and precautions with equipment vendor
- _____ Has previous experience with same or similar equipment
- _____ Has received specific instructions from a experienced operator of same or similar equipment

_____/_____
System Manager Date

ATTACHMENT 2

QUALIFICATION RECORD FOR OPERATION OF THE _____
EQUIPMENT AT THE 305 BUILDING COLD TEST FACILITY
(EXAMPLE)

This certifies _____ is qualified to operate the above listed equipment.
The following areas have been discussed. A brief narrative shall be listed below the areas to
identify the specifics discussed.

All equipment safety issues

Operating Manual

All precautions (literature, vendor, experienced operators)

Criteria to recognize failure or off-normal operations

Responsibility during operation

I have read and understand the items listed above.

_____/_____
Person receiving training Date

The items above have been discussed and a walkthrough and operation of the equipment has
been conducted.

_____/_____
System Engineer Date

ATTACHMENT 3
305 BUILDING WORK PLAN/INSTRUCTION

ATTACHMENT 4
305 BUILDING JOB SAFETY REVIEW