STAR

ENGINEERING CHANGE NOTICE

Page 1 of 10

1. ECN 198963

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.		4. Date
Supplemental [X] Direct Revision [] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void []	A. K. McDowell, Tank Farms Environmental Engineering, R1-51, 373-5619		July 25, 1994
	5. Project Title/No./Work Order No. Update to 357 Manual	6. Bldg./Sys./Fac. No. NA	7. Approval Designator NA
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-WM-TI-357-REV-1K	9. Related ECN No(s). NA	10. Related PO No. NA

11a. Modification Work	11b. Work Package No.	11c. Modification Work Complete	11d. Restored to Original Condition (Temp. or Standby ECN only)
[] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	NA	NA Cog. Engineer Signature & Date	NA Cog. Engineer Signature & Date

12. Description of Change

Replace pages 93, 94, 177, and 178 of the 357 manual to change all crib drywell monitoring frequencies to "on-request".

13a. Justification (mark one)							
	Criteria Change	[X]	Design Improvement	[]	Environmental	[]	
As-Found	[]	Facilitate Const.	[]	Const. Error/Omission	[]	Design Error/Omission	[]

13b. Justification Details

Previously scheduled drywell frequencies were required for active cribs. Since the operational status of cribs has changed to inactive, scheduled drywell readings are no longer required. Crib drywell readings will only be taken on request from either Tank Farms Environmental Engineering or East/West Tank Farm Technical Support.

14. Distribution (include name, MSIN, and no. of copies)

See attached distribution sheet.

RELEASE STAMP

OFFICIAL RELEASE BY WHC (5)

DATE AUG 30 1994

Sta. 4

SEP 1994 RECEIVED EDMC

A-7900-013-2 (06/94) GEF095

A-7900-013-1 (06/92)

ENGINEERING CHANGE NOTICE

1. ECN (use no. from pg. 1): 198963

15. Design Verification Required	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[] Yes	Additional	[] $	Additional	[] $	Improvement	[X]
[X] No	Savings	[X] $	Savings	[] $	Delay	[]

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	[]	Seismic/Stress Analysis	[]	Tank Calibration Manual	[]
Functional Design Criteria	[]	Stress/Design Report	[]	Health Physics Procedure	[]
Operating Specification	[]	Interface Control Drawing	[]	Spares Multiple Unit Listing	[]
Criticality Specification	[]	Calibration Procedure	[]	Test Procedures/Specification	[]
Conceptual Design Report	[]	Installation Procedure	[]	Component Index	[]
Equipment Spec.	[]	Maintenance Procedure	[]	ASME Coded Item	[]
Const. Spec.	[]	Engineering Procedure	[]	Human Factor Consideration	[]
Procurement Spec.	[]	Operating Instruction	[]	Computer Software	[]
Vendor Information	[]	Operating Procedure	[]	Electric Circuit Schedule	[]
OM Manual	[]	Operational Safety Requirement	[]	ICRS Procedure	[]
FSAR/SAR	[]	IEFD Drawing	[]	Process Control Manual/Plan	[]
Safety Equipment List	[]	Cell Arrangement Drawing	[]	Process Flow Chart	[]
Radiation Work Permit	[]	Essential Material Specification	[]	Purchase Requisition	[]
Environmental Impact Statement	[]	Fac. Proc. Samp. Schedule	[]	Tickler File	[]
Environmental Report	[]	Inspection Plan	[]		[]
Environmental Permit	[]	Inventory Adjustment Request	[]		[]

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
NA		

20. Approvals

	Signature	Date		Signature	Date
OPERATIONS AND ENGINEERING			ARCHITECT-ENGINEER		
Cog. Eng.	David Engman	8/1/94	PE		
Cog. Mgr.	John Lillefit	8/2/94	QA		
QA			Safety		
Safety			Design		
Environ.			Environ.		
Other	A. R. McDowell	7/25/94	Other		
ETF TS	J. J. Gaskel	8/1/94			
WTF TS	D. Deleat	8/16/94			
			DEPARTMENT OF ENERGY		
			Signature or a Control Number that tracks the Approval Signature		
			ADDITIONAL		

WAS:

ECN # 198963
3 of 10

4.0 EAST AREA ACTIVE CRIB CRITERIA

4.1 CRIBS - ACTIVE, 200 EAST AREA

Dry wells associated with active cribs that are available for monitoring (to track the migration of radionuclides in the soil) will be monitored semiannually unless otherwise specified by TFSA&S. If increased monitoring is required, it will not effect OSR-related frequency criteria.

Tank Farm Surveillance Analysis and Support will notify TFPE and the Hydrogeology Unit of any significant changes from established baseline profiles.

4.0 EAST AREA CRIB CRITERIA

4.1 CRIBS - 200 EAST AREA

Dry wells associated with cribs that are available for monitoring (to track the migration of radionuclides in the soil) will be monitored on request unless otherwise specified by East/West Tank Farm Technical Suppport.

East/West Tank Farm Technical Support will notify Tank Farms Environmental Engineering and Geohydrologic Support of any significant changes from established baseline profiles.

9413288.1380

WAS: ECN # 198963
5 of 10

CRIB DRY WELL MONITORING SCHEDULE

Drywell monitoring frequencies are an operational safety requirement (OSR).

Monitor by week ending _____

EAST AREA

Frequency Semi-Annual (unless otherwise stated in comment

Dry well number	Crib	Well depth ft.	Probe type reqd.	Date monitored	Comments
01-08-03 (8)	216-A-8	271*	S		
07 (6)		208*	S		
08 (4)		263*	S		
09 (5)		293*	S		
10 (7)		260*	S		
01-10-01 (160)	216-A-10	218	S		Monitor to 210'
02 (15)		160*	S		Out of service
03 (59)		150	S		
09 (60)		200*	S		
01-30-03 (193)	216-A-30	60	S		
06 (12)		340*	S		
11 (190)		50	S		
23 (191)		50	S		
01-36-01 (4)	216-A-36-B	379*	S		
06 (51)		150	S		
07 (7)		330*	S		
11 (11)		150	S		
01-37-05 (19)	216-A-37-1	300*	S		Out of service
10 (17)		300*	S		
01-45-04 (53)	216-A-45	150	S		
10 (54)		150	S		
02-55-04 (12)	216-B-55	349*	S		
02-62-04 (75)	216-B-62	150	S		
06 (20)		330*	S		

* Monitor to 150 foot depth, unless otherwise requested by TFSA&S.

Probe Type	CASS Number	Description
S	4	Scintillation
SS	14	Shielded Scintillator
GM-1	1	Green Geiger-Mueller
GM-2	2	Red Geiger-Mueller
N	3	Neutron

IS:

ECN # 198963

6710

9413288.1382

CRIB DRYWELL MONITORING SCHEDULE

EAST AREA

Frequency On-Request

Drywell No.	Crib	Well depth ft.	Probe type reqd.	Date Monitored	Comments
01-08-03 (8)	216-A-8	271*	S	On-Request	
07 (6)		208*	S	On-Request	
08 (4)		263*	S	On-Request	
09 (5)		293*	S	On-Request	
10 (7)		260*	S	On-Request	
01-10-01 (160)	216-A-10	218	S	On-Request	Monitor to 210'
02 (15)		160*	S	On-Request	Out of service
03 (59)		150	S	On-Request	
09 (60)		200*	S	On-Request	
01-30-03 (193)	216-A-30	60	S	On-Request	
06 (12)		340*	S	On-Request	
11 (190)		50	S	On-Request	
23 (191)		50	S	On-Request	
01-36-01 (4)	216-A-36B	379*	S	On-Request	
06 (51)		150	S	On-Request	
07 (7)		330*	S	On-Request	
11 (11)		150	S	On-Request	
01-37-05 (19)	216-A-37-1	300*	S	On-Request	Out of service
10 (17)		300*	S	On-Request	
01-45-04 (53)	216-A-45	150	S	On-Request	
10 (54)		150	S	On-Request	
02-55-04 (12)	216-B-55	349*	S	On-Request	
02-62-04 (75)	216-B-62	150	S	On-Request	
06 (20)		330*	S	On-Request	

* Monitor to 150 foot depth, unless otherwise requested by East/West Tank Farm Technical Support

Probe Type	CASS Number	Description
S	4	Scintillation
SS	14	Shielded Scintillation
GM-1	1	Green Geiger-Mueller
GM-2	2	Red Geiger-Mueller
N	3	Neutron

WAS: ECN # 198963

9of 10

8.0 WEST AREA ACTIVE CRIB CRITERIA

8.1 CRIBS - ACTIVE, 200 WEST AREA

Drywells associated with active cribs that are available for monitoring (to track the migration of radionuclides in the soil) will be monitored semiannually unless otherwise specified by TFSA&S. If increased monitoring is required, it will not effect OSR-related frequency criteria.

Tank Farm Surveillance Analysis and Support will notify TFPE and the Hydrogeology Unit of any significant changes from established baseline profiles.

9413288.1383

IS: ECN# 198963

8 of 10

8.0 WEST AREA CRIB CRITERIA

8.1 CRIBS - 200 WEST AREA

Dry wells associated with cribs that are available for monitoring (to track the migration of radionuclides in the soil) will be monitored on request unless otherwise specified by East/West Tank Farm Technical Suppport.

East/West Tank Farm Technical Support will notify Tank Farms Environmental Engineering and Geohydrologic Support of any significant changes from established baseline profiles.

9413288.1384

WAS: ECN # 198963

9 of 10

CRIB DRYWELL MONITORING SCHEDULE

Drywell monitoring frequencies are an operational safety requirement (OSR).

Monitor by week ending _____

WEST AREA

Frequency Semi-annual (unless otherwise stated in comments

Drywell No.	Crib	Well depth ft.	Probe type reqd.	Date Monitored	Comments
04-25-04 (9)	216-S-25	230*	S		
06-12-02 (73)	216-U-12	60	S		
06 (75)		169*	S		
08-08-06 (55)	W-LWC	97	S	Annual	
09 (54)		99	S	Annual	
09-20-07 (20)	216-Z-20	250*	S	Annual	
06-17-02 (90)	216-U-17	150	S	Quarterly	
07 (89)		100	S	Quarterly	

* Monitor to 150 foot depth, unless otherwise requested by TFSA&S.

Probe Type	CASS Number	Description
S	4	Scintillation
SS	14	Shielded Scintillation
GM-1	1	Green Geiger-Mueller
GM-2	2	Red Geiger-Mueller
N	3	Neutron

CRIB DRYWELL MONITORING SCHEDULE

WEST AREA

Frequency On-Request

Drywell No.	Crib	Well depth ft.	Probe type reqd.	Date Monitored	Comments
04-25-04 (9)	216-S-25	230*	S	On-Request	
06-12-02 (73)	216-U-12	60	S	On-Request	
06 (75)		169*	S	On-Request	
08-08-06 (55)	W-LWC	97	S	On-Request	
09 (54)		99	S	On-Request	
09-20-07 (20)	216-Z-20	250*	S	On-Request	
06-17-02 (90)	216-U-17	150	S	On-Request	
07 (89)		160	S	On-Request	

* Monitor to 150 foot depth, unless otherwise requested by East/West Tank Farm Technical Support

Probe Type	CASS Number	Description
S	4	Scintillation
SS	14	Shielded Scintillation
GM-1	1	Green Geiger-Mueller
GM-2	2	Red Geiger-Mueller
N	3	Neutron

9413288.1386

INFORMATION RELEASE REQUEST
PUBLIC DOCUMENT CHANGE/REVISION
(Short Form No. 1)

1. Base Document ID Number: WHC-SD-WM-TI-357

2. Base Document Title:
Waste Storage Tank Status and Leak Detection Criteria

3. Change/Revision Number: ECN# 198963

4. Change/Revision Date: 07/25/94

5. Unclassified Category:* UC -

6. Budget & Reporting Code:* B&R -

I verify this change/revision to the base document indicated above:

- Complies with the provisions of WHC-CM-3-4
- Contains no Limited-Use information
- Contains no classified or Applied Technology references
- Does not change the intent or meaning of the base document
- And, the base document itself is approved for public release.

7. Responsible Manager: RD Gustavson

MSIN: R1-51 Telephone Number: 373-5090

R.D. Gustavson (Signature) 8/29/94 (Date)

8. Information Release Administration Specialist:**

(Signature) (Date)

*Required only for full revisions transmitted to OSTI.
**Required only for full revisions.

A-6001-401.1 (07/94)

9413280.1387

DISTRIBUTION SHEET

TO: Distribution | FROM: Shift/Surveillance Engineering

TITLE: WHC-SD-WM-TI-357

Name	MSIN	Name	MSIN
C. D. Acree	L7-06	K. F. Lund	L7-06
J. E. Andrews	S5-04	P. J. Martell	T1-30
R. J. Ascherl	A4-35	J. McClees	R1-51
J. J. Badden (2)	S5-12	A. K. McDowell	R1-51
D. A. Barnes	R1-51	N. M. Milliken	H4-63
L. Bedford	S0-14	R. Ni	S5-07
P. L. Bensel	A2-32	P. L. Owen (West Shift Office)	T4-01
S. E. Bevans	T4-07	R. S. Popielarczyk	R1-30
B. E. Bielicki	H5-72	R. K. P'Pool	T1-30
V. C. Boyles	R1-49	D. A. Pratt	T4-03
W. G. Brown	S2-45	R. K. Price	H6-06
D. M. Carson	S0-09	R. E. Raymond	R2-54
R. J. Cash	S7-15	R. W. Reed	R1-51
J. C. Conner	H4-61	R. R. Rios	R1-80
C. D. Coppinger	T4-08	J. S. Schofield	R1-51
D. E. Deaton	T4-07	C. P. Schroeder	L7-06
M. L. Dexter	R1-51	D. Scott, Jr	T4-01
R. A. Dodd	R1-51	N. J. Scott-Proctor	R1-80
J. E. Dreher	T4-05	E. M. Sheen	L7-03
B. G. Erlandson	H6-20	L. E. Simmons, Jr	S0-14
G. T. Frater	S7-30	S. M. Stahl	H4-62
J. R. Freeman-Pollard	H6-03	M. J. Sutey	T4-07
E. F. Gray	R3-50	S. A. Szendre	H6-30
E. C. Heubach	H5-34	A. M. Tallman	H5-53
M. J. Holm	R1-80	T. S. Vail	R1-51
J. H. Huber	R1-49	N. J. Vermeulen	R1-80
J. V. Hurley	S7-12	A. C. Walsh	G7-57
E. I. Husa	R1-80	J. Weber	S1-57
D. F. Iwatate	G6-16	R. K. Welty	R1-80
M. G. Johnson	R1-51	K. A. White	R1-51
W. J. Kennedy	S5-03	J. J. Verderber	S1-57
N. W. Kirch	R2-11	E. J. Walter	H5-52
G. M. Koreski	R1-51	C. R. Wilson	H5-52
K. J. Kubinski	B5-32	G. J. Williams	S7-22
M. Kummerer	H4-62	B. D. Williamson	B3-15
J. S. Lee	S7-82	EDMC c/o S. J. Wray	H6-08
Central Files (4)	L8-04		

ICf KH:
D. J. Shrimpton S3-07

PNL:
K. E. Noffsinger K5-20

RL:
G. E. Bishop S7-54
R. D. Hildebrand A5-55
R. F. Christensen S7-54
A. D. Toth S7-54

Offsite:
G. Thomas Webb
RCRA Unit Supervisor
Nuclear and Mixed Waste Management Program
Washington State Department of Ecology
7601 West Clearwater, Suite 102
Kennewick, Washington 99336

* If there are any changes to the distribution list, please contact N. J. McKibban (R1-51) via cc:Mail or call 373-1305

9413288.1388