

JAN 28 2000

STA 4



ENGINEERING DATA TRANSMITTAL

1 EDT

624868

2 To (Receiving Organization) DISTRIBUTION S		3 From (Originating Organization) INTERIM STABILIZATION ENGINEERING		4 Related EDT No N/A	
5 Proj /Prog /Dept /Div 241-S & SX		6 Design Authority/Design Agent/Cog Engr W F ZUROFF / J E LAMPHERE		7 Purchase Order No N/A	
8 Originator Remarks APPROVAL AND RELEASE OF DESIGN REVIEW REPORT				9 Equip /Component No N/A	
				10 System/Bldg /Facility 241-S-102	
				12 Major Assm Dwg No N/A	
11 Receiver Remarks				11A Design Baseline Document? <input checked="" type="radio"/> Yes <input type="radio"/> No	
				13 Permit/Permit Application No N/A	
				14 Required Response Date	

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	HNF-4065	1-21	0	DESING REVIEW REPORT FOR S AND SX FARM LEAK DETECTORS	N/A	2	1	1

16 KEY		
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E S Q D OR N/A (See WHC-CM 3 5 Sec 12 7)	1 Approval 2 Release 3 Information 4 Review 5 Post Review 6 Dist (Receipt Acknow Required)	1 Approved 2 Approved w/comment 3 Disapproved w/comment 4 Reviewed no/comment 5 Reviewed w/comment 6 Receipt acknowledged

17 SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)											
(G) Reason	(H) Disp	(J) Name	(K) Signature	(L) Date	(M) MSIN	(G) Reason	(H) Disp	(J) Name	(K) Signature	(L) Date	(M) MSIN
		Design Authority	W F ZUROFF	1/27/00	57-29						
		Design Agent									
2	1	Cog Eng	J E LAMPHERE	1/27/00	57-29						
2	1	Cog Mgr	M R KOCH	1/27/00	107100						
		QA									
		Safety									
		Env									

18 Signature of EDT Originator J E LAMPHERE Date: 1/27/00		19 Authorized Representative for Receiving Organization W F ZUROFF Date: 1/27/00		20 Design Authority/Cognizant Manager W F ZUROFF Date: 1-27-00		21 DOE APPROVAL (if required) Ctrl No _____ <input type="radio"/> Approved <input type="radio"/> Approved w/comments <input type="radio"/> Disapproved w/comments	
--	--	---	--	---	--	---	--

DESIGN REVIEW REPORT FOR S AND SX FARM LEAK DETECTORS (ECN-649594)

J E Lamphere
CH2M HILL
Richland WA 99352
U S Department of Energy Contract DE AC06 96RL13200

EDT/ECN 624868 UC
Org Code 74D00 Charge Code 103377
B&R Code Total Pages 19

Key Words

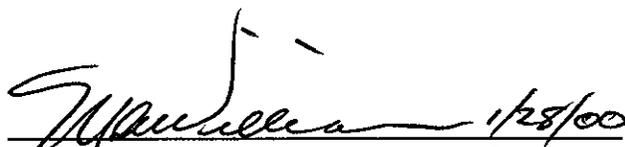
241-S LEAK DETECTORS DESIGN REVIEW REPORT

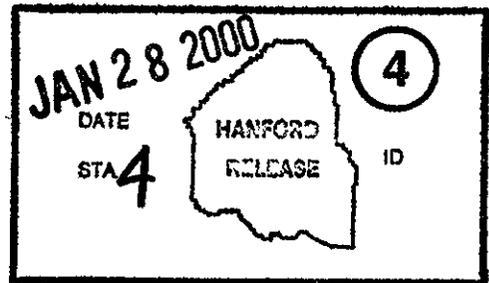
Abstract

The design for S & SX Farm Leak Detector ECN (649594) provides leak detection for valve pits S-A & S-B the Over Ground Transfer (OGT) conduit installation for the leak detection in COB #10 between #10 and PICS at 241-S-106 The Design Review was held 11/20/98 All comments received on RCR forms during the meeting are recorded on the meeting minutes were resolved and incorporated to the satisfaction reviewers

TRADEMARK DISCLAIMER Reference herein to any specific commercial product process or service by trade name trademark manufacturer or otherwise does not necessarily constitute or imply its endorsement recommendation or favoring by the United States Government or any agency thereof or its contractors or subcontractors

Printed in the United States of America To obtain copies of this document contact Document Control Services P O Box 950 Mailstop H6 08 Richland WA 99352 Phone (509) 372 2420 Fax (509) 376-4989


Release Approval Date 1/28/00



Release Stamp

Approved For Public Release

HNF-4065, Revision 0

TABLE OF CONTENTS

1 0	SCOPE	3
2 0	SUMMARY	4
3 0	DOCUMENTATION	5
3 1	APPENDIX A – MEETING MINUTES	6
3 2	APPENDIX B – REVIEW COMMENT RECORDS	7

HNF-4065, Revision 0**1.0 SCOPE**

A design review meeting was conducted to review ECN-649594 on November 20, 1998. During the review meeting all RCR's were reviewed and dispositioned to the satisfaction of the reviewers. The review encompassed S and SX Farm Leak Detector design considerations. The TWRS Facility Safety Equipment List (SEL) HNF-SD-W SEL-040, Revision 1 classifies Leak Detection Elements as component safety class. The reason being that if the pit cover were not in place, undetected leakage could result in potential environmental releases which exceed the on-site or off-site risk assessment criteria. A Radiological design review is required (per 10CFR835 and DOE Policy as indicated in HSRM-1, Revision 2) to determine if the modifications collectively change the dose rate by impacting radiological sources, contamination control, or shielding.

- Documents Reviewed
- 1) ECN-649594, 241-S & SX Leak Detectors. The ECN Provides leak detection for Valve Pit S-A and S-A, the Over Ground Transfer (OGT) at Valve Pits S-B and S-D to support Saltwell Pumping activities. Also provided are conduit installation for leak detection in COB # 10 between COB # 10 and PICS at 241-S-106.
 - 2) USQ-TF-98-0832, Revision 1. The USQ proposed activity consists of the Saltwell Equipment in preparation for the Saltwell campaign for 241-S-102. This tank has been identified as Facility Group 2 (BIO Appendix E, Page B-18). The activity includes installation of the Jet Pump, Pumping and Instrumentation and Control (PIC) Skid, Flammable Gas Monitor (FGM), modification of power supply and the installation of Leak Detection Station. This activity includes electrical cable routing from the pump pit and leak detector elements. The USQ specifically includes the installation of a Mini Power Zone Wiring from new Leak Detector Station to the Mini Power Zone and connecting DH-485 cable to the leak station. The leak detector probes for 241-S-A and 241-S-B valve pits will also be installed in the new leak detection station with their individual circuits. The USQ provides that the screening for activities involved in implementing ECN-649594 did not warrant a Determination. A revision 1 prepared to address the new ECN.
 - 3) Radiological Design Review Screening. The Radiological Design Review Screening provides documentation that the dose rate, due to ECN-649594 activities would not collectively change the dose rate by impacting radiological sources, contamination control or shielding.

HNF-4065, Revision 0

2.0 SUMMARY

The design review meeting was conducted on November 20, 1998. The meeting minutes are attached in Appendix A. Comments were recorded on Review Comment Records, Appendix B, in the meeting minutes. No further comments were made. The conclusion of the meeting is that with all RCR comments dispositions within the ECN, that the design met or exceeded the requirements for leak detection.

No outstanding action items remain on the design for ECN-649594.

HNF-4065, Revision 0

DOCUMENTATION

3 0 DOCUMENTATION

3 1 Meeting Minutes

3 2 Review Comment Records

MEETING MINUTES				
SUBJECT DESIGN REVIEW MEETING ECN 649594				
TO DISTRIBUTION		BUILDING 2704 HV		
FROM Interim Stabilization Engineering		CHAIRMAN W F Zuroff		
DEPARTMENT OPERATION COMPONENT ISE	AREA 200E	SHIFT	DATE OF MEETING 11/20/98	NUMBER ATTENDING 9
<p>Design Review Committee Members</p> <p>G P Janicek* Design Authority</p> <p>W F Zuroff* Cognizant Manager - ISE</p> <p>J E Lamphere* Cognizant Engineer - ISE</p> <p>T H Nguyen* Electrical Engineer - ISE</p> <p>O M Jaka* Nuclear Engineer</p> <p>B R Johns* Electrical Engineer - ISE</p> <p>J N Doeler* Facility Cognizant Engineer</p> <p>K J Hull* Facility Cognizant Engineer</p> <p>M J Bryden* Electrical Engineer</p> <p> * Meeting Attendees</p> <p>This Design Review Meeting was called to determine if ECN-649594, S and SX Farm Leak Detectors meet and/or exceeded the requirements of Basis for Interim Operation (BIO), HNF-SD-WM-BIO-001 and TWRS Facility Safety Equipment List (SEL), HNF-SD-WM-SEL-040. A general description of the lead detection operation was presented. Comments were received in the form of Review Comment Records (RCR) and these comments were dispositioned to the satisfaction of the reviewers. Additional comments were noted during the meeting and are reported as follows:</p> <ol style="list-style-type: none"> 1) DH-485 references should be deleted from scope of this ECN and remain scoped within a separate ECN. This revision may have extensive impact on the scope of ECN-649594, therefore, scope revision will be accomplished in subsequent meeting(s) between designer and Design Authority. 2) PM/S presently listed as Recall Basis 3 should be revised to Recall Basis 1. New cards will be generated as TF-FT-479-004 is revised. 3) Present Dome Loading is at 72,300#. Contributions per this ECN would be 4500#. 4) Preparation for a Work Plan was requested. This Work Plan would articulate the functional aspects of the PLC control Ladder Diagram and HMI Interface. The Work Plan would also include how the present system complies with mandated expectations. It was noted that the PM/S cards need to be revised from Recall 3 to Recall 1 by T H Nguyen. W F Zuroff requested that a work plan be prepared. <p>The Design Review will be closed by completion of the RCR's and signature of approval on the Engineering Change Notice ECN-649594.</p>				

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
	11/20/98		
3	Project No	4	Page
			1 of 2

5	Document Number(s)/Title(s)	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN-649594		KJ Hull		TFPE		MO-ZBI 376-0145

10 Agreement with indicated comment disposition(s) 11 CLOSED

12 Organization Manager (Optional) _____ Date _____

13 Reviewer/Point of Contact: KJ Hull, Date: 12/4/98

14 Author/Originator: J.A. Oberdorfer K.Hull

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1	DA-485 INSTALLATION MUST BE COMPLETED PRIOR TO HOOKUP (ECN 629556, ECN 626488, ECN 638489, ECN 633191 MUST BE COMPLETED/RESOLVED TO REFLECT FIELD INSTALLATION) PAGE 15, 16, AND 17	✓	ECN PREPARED	C

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
	11/20/98		
3	Project No	4	Page
			1 of 2

5	Document Number(s)/Title(s)	7	Reviewer	8	Organization/Group	9	Location/Phone
		J Doeler					

17 Comment Submittal Approval

11 CLOSED

Organization Manager (Optional)

12/14/98 J Doeler

12/14/98

Reviewer/Point of Contact

Author/Originator

Reviewer/Point of Contact

Author/Originator

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1)	Need a plan to coordinate shutdown of phosphate pumping 5-104/5-106 during work that PMS cards to be modified and generated		INCORPORATED COMMENTS	C
2)	More leak detector stations for power center off 5-102 preferably cathode cyclusion		INCORPORATED COMMENTS	C
3)	Indicates operating procedure needed for pumping 5-102		INCORPORATED COMMENTS	C
4)	Pg 6 indicates ECN for 5-103 PICS skid and that COB #10 leak detector to be furnished from 5-106 PICS		INCORPORATED COMMENTS	C
5)	General I cannot find mention of the OGT leak detectors		IDENTIFIED OGT LEAK DETECTORS MORE CLEARLY	C
6)	Pg 57- OGT leak detector in 5-D put not shown		IDENTIFIED OGT LEAK DETECTOR IS S-D PUT	C

REVIEW COMMENT RECORD (RCR)

1	Date 11/20/88	2	Review No
3	Project No	4	Page 2 of 2

12. Item	13. Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14. Hold Point	15. Disposition (Provide justification if NOT accepted)	16. Status
8)	pg 6 - indicate junc box so for OGT leak detector in 241-S-B pit		INCORPORATED COMMENT	C
9)	pg 6 - what is SN-213		SN 213 REJECTED TO IDENTIFY IT AS A DISCONNECT SUBJECT	C
10)	pg 12, 13, & 14 could you indicate which leads is pined from LD1, LD2, LD3, LD4		INCORPORATED COMMENT	C

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
	11/20/98		leak-1
3	Project No	4	Page
	649594		1 of 2

5	Document Number(s)/Title(s)	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN 649594/S AND SX FARM LEAK DETECTORS		B R JOHNS		INTERIM STABILIZATION		2704HV/D111/373-3429

17 Comment Submittal Approval

10 Agreement with indicated comment disposition(s) 11 CLOSED

Organization Manager (Optional) BR Johns Reviewer/Point of Contact BR Johns

Date 12/14/98 Date 12/14/98

Author/Organizer BR Johns Author/Organizer BR Johns

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
✓ 1	Pages 3 and 4 ECN page references are one page off		INCORPORATED COMMENT	S
✓ 2	Page 3 Under Description of Change, the last sentence should include COB #'s 19, 21, and 22 besides 25		COB #'s 19, 21 AND 22 ARE NOT BEING COVERED WITH PLASTIC AND CARBUREL PER THIS ECN	C
✓ 3	Page 3 Under Description of Change, third paragraph, "PB-S103-1" change to "PB-S103-I"		INCORPORATED COMMENT	✓C
✓ 4	Page 6 Add note to sketch for drafting not to incorporate ECN references on drawing		ECN REFERENCES REMOVED FROM DRAWING OK	C
✓ 5	Page 10 For switch, #3 label, do the COB #'s need to be reference as on page 11, switch #4?		INCORPORATED COMMENT	YES C
6	Page 12 Need consistency in wire numbering. Some wire labels indicate destination, others do not. See my marked up drawing for reference.		INCORPORATED COMMENT	✓C
7	Page 12 Some wire routing is confusing. Recommend neutral to strobe light come from the neutral block. The SL-H wire from the strobe should go to LD2-4 terminal 5 rather than the middle of the wire. See my mark up.		INCORPORATED COMMENT	✓C
8	Pages 13 and 14 Same comments as on page 12		INCORPORATED COMMENT	✓C

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
	11/20/98		leak-1
3	Project No	4	Page
	649594		2 of 2

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated.)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
9	Pages 15, 16 and 17 The "See Connector Wiring Diagram" designation, where is the connection diagram May need to reference location?		WHEN DRAWING IS CREATED THE CONNECTOR WIRING DIAGRAM WILL APPEAR ON THE SAME SHEET AS THE PROGRAMS SHOWN ON PAGE 15 16 & 17 Shown on pg 15 Self	C
10	Page 26 The 799 value for watts of the MPC-E seems low Looks like the value was left over from the heat trace that was there previously I would recommend at least a 1000 watts per phase be used The subtotals and totals will have to be changed		INCORPORATED COMMENTS	✓ C
11	Pages 13 and 14 Why are these pages being added to the drawing? Didn't previous ECN's create these wiring diagrams? Seems these pages should be just reflecting changes		INCORPORATED COMMENTS	✓ C

REVIEW COMMENT RECORD (RCR)

1	Date	11/24/98	2	Review No	leak-2
3	Project No	649594	4	Page	1 of 2

5	Document Number(s)/Title(s)	6	Program/Project/ Building Number	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN 649594/S AND SX FARM LEAK DETECTORS		241-S AND -SX		B R JOHNS		INTERIM STABILIZATION		2704HV/D111/373-3429

17 Comment Submittal Approval 10 Agreement with indicated comment disposition(s) 11 CLOSED

Organization Manager (Optional) _____ Reviewer/Point of Contact _____
 Date 12/14/98 Date 12/14/98
 Author/Originator [Signature] Author/Originator [Signature]

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status	
1	Page 6 Note 4 calls out #8 wire for the ground electrode While #8 meets the requirement in table 250-66 ('99 NEC), it does not meet the requirement in section 250-64(b) ('99 NEC) for protection The ground conductor since it is outside and running to the ground rods needs to be #4 unless the #8 is run in conduit			INCORPORATED COMMENTS	C
2	Page 24 Items 8 and 9 are listed as NEMA 12 enclosures NEMA 12 enclosures according to the technical information in Hoffman are for indoor use If the panels are used outside, then the NEMA 12 should be modified for outdoor use or NEMA 4 or 4X panels should be used			NEW INSTALLATION IS NEMA 4X I WILL NEED TO CHECK BOXES CURRENTLY INSTALLED TO CHECK THEIR NEMA RATING THERE IS NOT ENOUGH VERBAGE IDENTIFICATION TO CONFIRM NEMA RATING, HOWEVER, PAGES ARE EXAMINED AND ARE WEATHER-TIGHT	C
3	Page 25 The circuit breakers are not specified for the mini power zone panel			INCORPORATED COMMENTS	✓

*stick needs to be weather-tight it is checked
 2/11/99 [Signature] not part of [Signature]*

REVIEW COMMENT RECORD (RCR)

1	Date	11/19/98	2	Review No	
3	Project No		4	Page	1 of 2

5	Document Number(s)/Title(s)	6	Program/Project/ Building Number	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN-649594 S AND SX FARM LEAK DETECTORS		241-S & SX		J E LAMPHERE		INTERIM STABILIZATION		373-5378

17 Comment Submittal Approval

10 Agreement with indicated comment disposition(s) 11 CLOSED

Organization Manager (Optional) _____ Date 12/14/98

Reviewer/Point of Contact _____ Date 12/14/98

Author/Originator _____

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1	INCLUDE FACILITY ENGINEER, JEFF DOELER TO PAGE 1, LIST BLOCK 15 OF ECN 649594 ISN'T ECN-638490L SIGNED OFF AS "WORK COMPLETE"?	JL	INCORPORATED COMMENT	✓
2	BLOCK 14b, PAGE 1 OF ECN-649594 NEEDS TO BE MORE DESCRIPTIVE OF ACTUAL WORK TO BE ACCOMPLISHED	JL	INCORPORATED COMMENT	✓
3	ARE THERE PM/S SHEETS INVOLVED? IF SO THEY SHOULD BE LISTED IN BLOCK 20, PAGE 2, OF ECN-649594	JL	INCORPORATED COMMENT	✓
4	PAGE 6 OF ECN-649594 REDUCE CLOUD SIZE TO INDICATE ONLY NEW WORK ITEMS WHERE IS SN-213	JL	INCORPORATED COMMENT	✓
5	PAGE 7 OF ECN-649594 REDUCE CLOUD SIZE TO INDICATE ONLY NEW WORK ITEMS IS THERE A DETAIL OF EXACT LOCATION OF SKID, LEAK DETECTOR STATION, ETC DOME LOADING CALCULATIONS MAY LOCATE THEM BETTER	JL	INCORPORATED COMMENT	✓
6	PAGE 3 OF ECN-649594 PAGE NUMBERING PROBLEM	JL	INCORPORATED COMMENT	✓
7	PAGE 9, 10, & 11 OF ECN-649594 THE ONLY SIGNIFICANT DIFFERENCE BETWEEN THESE PAGES ARE THE CONDUITS AND WIRE INFORMATION DO ALL THREE PAGES NEED TO BE ADDED TO H-2-46477, SH 1?	JL	INCORPORATED COMMENT THESE PAGES SHOW THE DIFFERENCES BETWEEN THE THREE LEAK DETECTOR STATIONS AND THEY ARE REQUIRED TO DRAWN AT THESE DIFFERENCES	✓
8	PAGE 12, 13, 14 OF ECN-649594 ADD BONDING OF CONTROLLER ENCLOSURE DO ALL THREE PAGES NEED TO BE ADDED TO H-2-46477, SH 1?	JL	INCORPORATED COMMENT SEE ITEM 7 ABOVE	✓

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
3	Project No	4	Page
		2 of 2	

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated.)	14 Hold Point	15 Disposition (Provide justification if NOT accepted.)	16 Status
9	PAGE 19 OF ECN-649594 REDUCE CLOUD SIZE TO INDICATE ONLY NEW WORK ITEMS	JL	INCORPORATED COMMENTS	✓
10	PAGE 21 OF ECN-649594 INDICATE POINT OF ATTACHMENT, DRIP LOOP, POLE, & GROUNDING INFORMATION ARE YOU COORDINATING THIS WITH SITE UTILITIES? ARE YOU GOING TO ADD DETAILS?	JL	FACILITIES WORK UTILITIES IS NOT REQUIRED	C
11	PAGE 25 OF ECN-649594 ADD PARTS INFORMATION FOR UTILITY POLE WORK	JL	NO UTILITIES POLE WORK	C

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
	November 19 1998		1075-98
3	Project No	4	Page
	241-S and SX		1 of 1

5	Document Number(s)/Title(s)	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN 649594/S and SX Farm Leak Detectors		Omar Jaka		TWRS-Safety Services		2704HV/F100D/2-2322

17 Comment Submittal Approval

10 Agreement with indicated comment disposition(s) 11 CLOSED

Organization Manager (Optional) _____ Date 12/14/98 Reviewer/Point of Contact M. Jaka Author/Organizer _____

_____ Date 12/14/98 Reviewer/Point of Contact M. Jaka Author/Organizer _____

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1	USQ screening is not attached to the ECN to complete the review	0J	PROVIDED COMMENT WITH A COPY OF THE USQ SCREENING	S
2	ECN item 14b is not very clear Also the reason for this change is not very well described	0J	INCORPORATED COMMENT	S
3	ECN sheet no 5 is not reflecting the current rev of the Drawing H-2-46477	0J	INCORPORATED COMMENT	S
4	On sheet 3 calls out to provide plastic sheet and bury it with 8 of gravel I would like to see more description of this plastic sheet cover	0J	PROVIDED COMMENT WITH A ENGINEERING CALC FOR THIS	C
5	On several pages (page 7 22 etc) same symbol for ground and concrete is used which is not very correct	0J	INCORPORATED COMMENT	S

REVIEW COMMENT RECORD (RCR)

1	Date	2	Review No
3	Project No	4	Page
11/20/98		1 of 2	

5	Document Number(s)/Title(s)	7	Reviewer	8	Organization/Group	9	Location/Phone
	ECN 649594		TJ VOLKMAN		QA		3404HW/5113 323.5302

10 Agreement with indicated comment disposition(s) 11 CLOSED

17 Comment Submittal Approval

Organization Manager (Optional)

12/14/99 Date

12/14/98 Date

Reviewer/Point of Contact

Author/Originator

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated.)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1	STAIRWELL/SPECIFY COB COVERS		INCORPORATED COMMENT	C
2	PG C SPECIFY GROUND ROD SIZE & INSTALLATION CRITERIA (INCLUDING LOCATION)		INCORPORATED COMMENT	S
3	PG 24425 - COMPLETE MATERIAL LIST		INCORPORATED COMMENT	C

REVIEW COMMENT RECORD (RCR)

1 Date	2 Review No
11-20-98	
3 Project No	4 Page
	1 of 2
5 Document Number(s)/Title(s)	6 Program/Project/Building Number
ECN 649594	WF ZURDF
7 Reviewer	8 Organization/Group
WF ZURDF	
9 Location/Phone	10 Agreement with indicated comment disposition(s)
	11 CLOSED

17 Comment Submittal Approval

Organization Manager (Optional) _____

Date: 11/20/98

Reviewer/Point of Contact: *[Signature]*

Author/Organizer: *[Signature]*

Reviewer/Point of Contact: *[Signature]*

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
1	Work Plan should be developed to describe the entire L/D process for the S/SX Farm Complex		Work completed and TIL updated to prepare plan - Not required to release ECN -	
2	Pg 12 - inconsistent will label designations component pointers not consistent		INCORPORATED COMMENT	✓
3	Pg 6 show the OST Leak probes. r consistent		INCORPORATED COMMENT	✓
4	Resolve the issue of ECN 6384902 which is work complete to remove from current ECN		INCORPORATED COMMENT	✓
5	Pg 2 - Add formal Review block PER ECN procedure.		INCORPORATED COMMENT	✓

REVIEW COMMENT RECORD (RCR)	
1 Date <i>11/20/98</i>	2 Review No 2
3 Project No	4 Page 2 of 2

12 Item	13 Comment(s)/Discrepancy(s) (Provide technical justification for the comment and detailed recommendation of the action required to correct/resolve the discrepancy/problem indicated.)	14 Hold Point	15 Disposition (Provide justification if NOT accepted)	16 Status
6	<i>Pg 2 and 3 - Purge out anything to do with superseded ECM</i>		<i>INCORPORATED COMMENTS</i>	<i>C/</i>
7	<i>Remove</i>			

