	PER CO #9046	Approved By <i>7/11/04</i>	Effective Date NOV 09 2004	Document No. 13217	Revision L
	Originator BRENT BINKLEY	Checked By SK <i>11/09</i> PFL	Page 1 of 15	Reference ATP-017-42	Class 42

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

CUSTOMER PART NUMBER: NA

SERIAL NUMBER: 1033249-3 DATE: 11-22-04

SHOP ORDER: 50988 JOB NUMBER: R4391A

CSM P/N: NA S/N: NA

CSM P/N: S/N:

CSM P/N: S/N:

CSM P/N: S/N:

CSM P/N: NA S/N: NA

NOTE: MARK STEPS WHICH ARE NOT APPLICABLE TO THE BUILD "N/A" IN THE RECORDING AREA.

1.0 EQUIPMENT:

TYPE	MODEL #	S/N	CAL. DATE
MEGOHM METER	<u>BMM80</u>	<u>ME-061-TA</u>	<u>09/22/05</u>
MULTI METER	<u>BMM80</u>	<u>ME-061-TA</u>	<u>09/22/05</u>
HYDROSTATIC GAUGE	<u>Sensotec</u>	<u>PI-001-TA</u>	<u>12/2004</u>
ETHERNET METER	<u>Fluke Dsp-4000</u>	<u>8595009</u>	<u>customer supplied meter</u>

TEST OR STANDARD RECEPTACLE/PLUG (CIRCLE ONE) - S/N: NA

TEST OR STANDARD RECEPTACLE/PLUG (CIRCLE ONE) - S/N: Test Ref #3

TEST STEP #1 PER DOC# 74432

CONTROLLED COPY

PASS  11-22-04

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-
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2.0 PRESSURE TEST RESULTS:

2.1 IF TEST PARAMETERS ARE CALLED OUT ON ASSEMBLY PROCEDURE
RECORD VALUES BELOW.

NOTE: IF PARAMETERS ARE CALLED OUT ON TEST SCHEDULE ATTACH A
COPY TO THE LOG SHEET AND MARK THIS PAGE N/A.

PARAMETERS RECORDED FROM D/N: 74432

	TEST #1	TEST #2	TEST #3	TEST #4	TEST #5	TEST #6	TEST #7	TEST #8	TEST #9	TEST #10
TEST PRESSURE (PSI)										
TEST TIME (MIN.)										
TEST VOLTAGE (VDC)										
TEST ACCEPTANCE (GΩ) CONDUCTOR-TO-CONDUCTOR & CONDUCTOR-TO-GROUND (SHIELD)										
TEST ACCEPTANCE SHIELDS TO GROUND (SHIELD) (MΩ)										

OPERATOR INITIALS: NA

DATE: NA

CONTROLLED COPY

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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2.2 RECORD IR MEASUREMENTS FOR TEST # 2 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ Ops; rated

FROM TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10 G																		
3	10 G	10 G																	
4	10 G	10 G	10 G																
5	10 G	10 G	10 G	10 G															
6	10 G	10 G	10 G	10 G	10 G														
7	10 G	10 G	10 G	10 G	10 G	10 G													
8	10 G	10 G	10 G	10 G	10 G	10 G	10 G												
9	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G											
10	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G										
11	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G									
12	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GROUND	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	NA	NA	NA	NA	NA	NA

PASS / FAIL

OPERATOR INITIALS: _____

5

DATE: _____

11-22-04

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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3.0 CONTINUITY TESTING

Test # 2 @ 0945

3.1 CONTINUITY TEST RESULTS PER STEPS 4.8 HYDROSTATIC TEST AND 5.2 BENCH TEST OF PROCEDURE 10719. (ATP-017-40).

EXPECTED RESISTANCE FROM ASSEMBLY PROCEDURE OR TABLE 1 OF D/N 10719 (ATP-017-40). D/N 30322 (ATP-017-42-42-S1) MAY BE USED FOR ADDITIONAL MEASUREMENTS, ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE. MARK THIS SECTION "N/A" FOR ASSEMBLIES (SENSOR HARNESS) FOR WHICH THERE IS NO POINT TO POINT METHOD TO VERIFY CONTINUITY.

BENCH TEST HYDROSTATIC TEST (CIRCLE ONE)

CIRCUITS

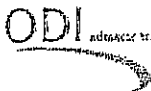
6ft Extra For test leads

1	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
2	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
3	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
4	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
5	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
6	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
7	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
8	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
9	LENGTH IN FEET: 31	X Ω PER FOOT	0.00706	=	0.094
10	LENGTH IN FEET: 31	X Ω PER FOOT	0.00706	=	0.094
11	LENGTH IN FEET: 31	X Ω PER FOOT	0.00706	=	0.094
12	LENGTH IN FEET: 31	X Ω PER FOOT	0.00706	=	0.094

CIRCUIT: 1	0.96	OHMS	10	0.09	OHMS
2	0.96	OHMS	11	0.10	OHMS
3	0.99	OHMS	12	0.09	OHMS
4	0.98	OHMS	13	NA	OHMS
5	0.99	OHMS	14	NA	OHMS
6	0.99	OHMS	15	NA	OHMS
7	0.96	OHMS	16	NA	OHMS
8	0.96	OHMS	17	NA	OHMS
9	0.09	OHMS	18	NA	OHMS
			19	NA	OHMS

PASS FAIL (CIRCLE APPROPRIATE RESULT)
OPERATOR INITIALS: 5

DATE: 11-22-04

 ODI advanced technology systems	CO #9046	Approved By <i>20860 11-9-04</i>	Effective Date NOV 09 2004	Document No. 74560	Revision A
	Originator J BLANKENSHIP	Checked By <i>Fischer-Cane</i>	Page 5 of 15	Reference ATP-017-42-S3	Class 42

SUBJECT: SUPPLEMENTAL ETHERNET LOG SHEET

EQUIPMENT

Test # 9 @ Ops:

ETHERNET METER (MAKE/MODEL): Fluke DSP-4000

S/N: 8597009 CAL DATE: Customer supplied meter

TEST NUMBER: 2 PRESSURE/BENCH (CIRCLE ONE): 0 PSI

TEST ACCEPTANCE: SEE TEST SCHEDULE ATTACHED TO PART NUMBER IN IFS

PASS / FAIL (CIRCLE RESULT OUTPUT FROM METER)

OPERATOR INITIALS: _____


5

DATE: 11-22-04

CONTROLLED COPY

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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2.2 RECORD IR MEASUREMENTS FOR TEST # 2 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ 3000 pps: mated

FROM TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10 G																		
3	10 G	10 G																	
4	10 G	10 G	10 G																
5	10 G	10 G	10 G	10 G															
6	10 G	10 G	10 G	10 G	10 G														
7	10 G	10 G	10 G	10 G	10 G	10 G													
8	10 G	10 G	10 G	10 G	10 G	10 G	10 G												
9	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G											
10	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G										
11	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G									
12	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GROUND	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G	10G

PASS / FAIL

OPERATOR INITIALS:

21

DATE: 11-23-04

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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3.0 CONTINUITY TESTING

Test #2 @ 3000ps;

3.1 CONTINUITY TEST RESULTS PER STEPS 4.8 HYDROSTATIC TEST AND 5.2 BENCH TEST OF PROCEDURE 10719 (ATP-017-40):

EXPECTED RESISTANCE FROM ASSEMBLY PROCEDURE OR TABLE 1 OF D/N 10719 (ATP-017-40). D/N 30322 (ATP-017-42-42-S1) MAY BE USED FOR ADDITIONAL MEASUREMENTS, ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE. MARK THIS SECTION "N/A" FOR ASSEMBLIES (SENSOR HARNESS) FOR WHICH THERE IS NO POINT TO POINT METHOD TO VERIFY CONTINUITY.

BENCH TEST HYDROSTATIC TEST (CIRCLE ONE)

CIRCUITS

6ft Extra for test leads	1	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
	2	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
	3	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
	4	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
	5	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
	6	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
	7	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
	8	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
	9	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
	10	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
	11	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
	12	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094

CIRCUIT: 1	.95	OHMS	10	.09	OHMS
2	.96	OHMS	11	.09	OHMS
3	.98	OHMS	12	.10	OHMS
4	.98	OHMS	13	NA	OHMS
5	.98	OHMS	14	NA	OHMS
6	.98	OHMS	15	NA	OHMS
7	.95	OHMS	16	NA	OHMS
8	.96	OHMS	17	NA	OHMS
9	.09	OHMS	18	NA	OHMS
			19	NA	OHMS

PASS / FAIL (CIRCLE APPROPRIATE RESULT)
OPERATOR INITIALS: 21

DATE: 11-23-04

ODI Oilfield Development International	CO #9046	Approved By <i>2060 11-9-04</i>	Effective Date NOV 09 2004	Document No. 74560	Revision A
	Originator J BLANKENSHIP	Checked By <i>J. Fischer-Cane</i>	Page 8 of 15	Reference ATP-017-42-S3	Class 42

SUBJECT: SUPPLEMENTAL ETHERNET LOG SHEET

EQUIPMENT

Test #2 @ 3000

ETHERNET METER (MAKE/MODEL): FLuke DSP-4000

S/N: 8597009 CAL DATE: Customer supplied meter

TEST NUMBER: 2 PRESSURE/BENCH (CIRCLE ONE): 3000 PSI

TEST ACCEPTANCE: SEE TEST SCHEDULE ATTACHED TO PART NUMBER IN IFS

PASS / FAIL (CIRCLE RESULT OUTPUT FROM METER)

OPERATOR INITIALS: _____



DATE: 11-23-04

CONTROLLED COPY

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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2.2 RECORD IR MEASUREMENTS FOR TEST # 2 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ ops: Post

FROM TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10 G																		
3	10 G	10 G																	
4	10 G	10 G	10 G																
5	10 G	10 G	10 G	10 G															
6	10 G	10 G	10 G	10 G	10 G														
7	10 G	10 G	10 G	10 G	10 G	10 G													
8	10 G	10 G	10 G	10 G	10 G	10 G	10 G												
9	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G											
10	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G										
11	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G									
12	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GROUND	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	NA	NA	NA	NA	NA	NA

PASS / FAIL

OPERATOR INITIALS: _____

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DATE: 11-23-04

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3.0 CONTINUITY TESTING

Test #2 @ O/S Post

3.1 CONTINUITY TEST RESULTS PER STEPS 4.8 HYDROSTATIC TEST AND
5.2 BENCH TEST OF PROCEDURE 10719. (ATP-017-40).

EXPECTED RESISTANCE FROM ASSEMBLY PROCEDURE OR TABLE 1 OF D/N
10719 (ATP-017-40). D/N 30322 (ATP-017-42-42-S1) MAY BE USED
FOR ADDITIONAL MEASUREMENTS, ATTACH A COPY TO THIS LOG SHEET
AS APPLICABLE. MARK THIS SECTION "N/A" FOR ASSEMBLIES
(SENSOR HARNESS) FOR WHICH THERE IS NO POINT TO POINT METHOD
TO VERIFY CONTINUITY.

BENCH TEST / HYDROSTATIC TEST (CIRCLE ONE)

CIRCUITS

6ft
Extra
for test
leads

1	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
2	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
3	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
4	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
5	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
6	LENGTH IN FEET: ↑	X Ω PER FOOT	↑	=	↑
7	LENGTH IN FEET: ↓	X Ω PER FOOT	↓	=	↓
8	LENGTH IN FEET: 37	X Ω PER FOOT	0.027	=	0.999
9	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
10	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
11	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094
12	LENGTH IN FEET: 31	X Ω PER FOOT	0.00306	=	0.094

CIRCUIT: 1	.98 OHMS	10	.09 OHMS
2	.96 OHMS	11	.09 OHMS
3	.98 OHMS	12	.09 OHMS
4	.99 OHMS	13	NA OHMS
5	.98 OHMS	14	NA OHMS
6	.99 OHMS	15	NA OHMS
7	.95 OHMS	16	NA OHMS
8	.96 OHMS	17	NA OHMS
9	.09 OHMS	18	NA OHMS
		19	NA OHMS

PASS / FAIL (CIRCLE APPROPRIATE RESULT)
OPERATOR INITIALS: 21

DATE: 11-23-04

	CO #9046	Approved By <i>[Signature]</i> 11-9-04	Effective Date NOV 09 2004	Document No. 74560	Revision A
	Originator J BLANKENSHIP	Checked By <i>[Signature]</i> Fischer-Cane	Page 11 of 15	Reference ATP-017-42-S3	Class 42

SUBJECT: SUPPLEMENTAL ETHERNET LOG SHEET

EQUIPMENT

Test #2 @ Ops; Post

ETHERNET METER (MAKE/MODEL): FLuke DSP-4000

S/N: 8597009 CAL DATE: Customer supplied meter

TEST NUMBER: 2 PRESSURE/BENCH (CIRCLE ONE): 0 PSI

TEST ACCEPTANCE: SEE TEST SCHEDULE ATTACHED TO PART NUMBER IN IFS

PASS / FAIL (CIRCLE RESULT OUTPUT FROM METER)

OPERATOR INITIALS: _____

[Stamp: 21]

DATE: 11-23-04

CONTROLLED COPY

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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2.2 RECORD IR MEASUREMENTS FOR TEST # 3 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ Ops; UNMATED

FROM TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10 G																		
3	10 G	10 G																	
4	10 G	10 G	10 G																
5	10 G	10 G	10 G	10 G															
6	10 G	10 G	10 G	10 G	10 G														
7	10 G	10 G	10 G	10 G	10 G	10 G													
8	10 G	10 G	10 G	10 G	10 G	10 G	10 G												
9	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G											
10	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G										
11	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G									
12	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GROUND	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	10 G	NA	NA	NA	NA	NA	NA

PASS / FAIL

OPERATOR INITIALS: MM 21

DATE: 11-23-04

SUBJECT: TEST LOG SHEET, ELECTRICAL FLUID-FILLED AND MOLDED TERMINATION CABLE ASSEMBLIES

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2.2 RECORD IR MEASUREMENTS FOR TEST # 3 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ 3000 psi. UNMARKED

FROM TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10																		
3	10	10																	
4	10	10	10																
5	10	10	10	10															
6	10	10	10	10	10														
7	10	10	10	10	10	10													
8	10	10	10	10	10	10	10												
9	10	10	10	10	10	10	10	10											
10	10	10	10	10	10	10	10	10	10										
11	10	10	10	10	10	10	10	10	10	10									
12	10	10	10	10	10	10	10	10	10	10	10								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GROUND	10	10	10	10	10	10	10	10	10	10	10	10	10	NA	NA	NA	NA	NA	NA

PASS / FAIL

OPERATOR INITIALS: _____

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DATE: 11/24/04

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2.2 RECORD IR MEASUREMENTS FOR TEST # 3 FROM STEP 4.6 OF D/N 10719 (ATP-017-40). NOTE: DENOTE SHIELDS BY PLACING "*" IN THE APPROPRIATE COLUMN/ROW HEADING. D/N 30323 (ATP-017-42-S2) MAY BE USED FOR ADDITIONAL MEASUREMENTS. ATTACH A COPY TO THIS LOG SHEET AS APPLICABLE.

@ Opri Post Unmated

FROM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1																			
2	10																		
3	10	10																	
4	10	10	10																
5	10	10	10	10															
6	10	10	10	10	10														
7	10	10	10	10	10	10													
8	10	10	10	10	10	10	10												
9	10	10	10	10	10	10	10	10											
10	10	10	10	10	10	10	10	10	10										
11	10	10	10	10	10	10	10	10	10	10									
12	10	10	10	10	10	10	10	10	10	10	10								
13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GROUND	10	10	10	10	10	10	10	10	10	10	10	10	10	NA	NA	NA	NA	NA	NA

PASS / FAIL

OPERATOR INITIALS: _____



DATE: _____

11/24/04

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3.2 PER STEP 5.3 OF D/N 10719 (ATP-017-40), VERIFY SENSOR FUNCTIONALITY PER MANUFACTURER'S INSTRUCTIONS. MARK THIS SECTION "N/A" IF NO SENSOR PRESENT.

PASS / FAIL (CIRCLE APPROPRIATE RESULT) N/A

3.3 PER STEP 5.4 OF D/N 10719 (ATP-017-40), RECORD OIL PRESSURE AS APPLICABLE.

OIL PRESSURE: NA

OPERATOR INITIALS: NA DATE: NA

3.4 PISTON MOVEMENT VERIFICATION (SEE ATTACHEMENT IN IFS FOR PASS/FAIL CRITERIA)

PRE HYDRO MEASUREMENT	<u>NA</u>	(INCHES)
POST HYDRO MEASUREMENT	<u>NA</u>	(INCHES)
PISTON MEASUREMENT DIFFERENCE	<u>NA</u>	(INCHES)

PASS / FAIL (CIRCLE APPROPRIATE RESULT)

OPERATOR INITIALS: NA DATE: NA

4.0 VISUAL INSPECTION RESULTS

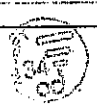
4.1 RECORD WEIGHT: 104.10 LBS.

QA INITIALS: 

DATE: 11-24-04

4.2 QA FINAL INSPECT PER PROCEDURE 10802 (A99B).

COMMENTS: _____

QA INITIALS: 

DATE: 11-24-04

CONTROLLED COPY

ODI

Advanced Technology Systems

PER CO #9038

Approved By

7/11/04

Effective Date

NOV 09 2004

Document No.

74432

Revision

B

Originator

P.FISCHER-CARNE

Checked By

PFC 11/08/04

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SUBJECT: 3000 PSI 10/100 BASE ETHERNET HARNESS TEST SCHEDULE

ATTACH A COPY OF THIS TEST SCHEDULE TO THE TRAVELER OF THE HARNESS ASSEMBLY TO BE TESTED.

CAUTION - DO NOT APPLY 1000 VDC IR TEST VOLTAGE TO ETHERNET WIRES.

	LOCATION	MATE/DEMATE	PRESSURE	IR	CONTINUITY	ETHERNET
TEST #1	WATER BATH	5 MATE/ DEMATE CYCLES TO TEST CONNECTOR	0 PSI	N/A	N/A	N/A
TEST #2	HYDROSTATIC TEST TANK	MATED TO TEST HARNESS OR TEST CONNECTOR	0-3000 SEE NOTE 3	SEE NOTE 1&2	< .1 OHMS + WIRE OHMS/FT RESISTANCE SEE NOTE 1	SEE NOTE 1 & 4
TEST #3 SEE NOTE 5	HYDROSTATIC TEST TANK	UNMATED TO TEST HARNESS OR TEST CONNECTOR	0-3000 SEE NOTE 3	SEE NOTE 1&2	N/A	N/A

NOTE 1: PERFORM TESTS ON CYCLES 1 AT AMBIENT (PRIOR TO PRESSURE) AND CYCLE 5 WHILE AT PRESSURE (END OF HOLD) AND AT AMBIENT (END OF TEST).

NOTE 2: **CAUTION - DO NOT APPLY 1000 VDC TEST VOLTAGE TO ETHERNET WIRES.** PERFORM IR ON ETHERNET CABLE WIRES AT 50 VDC, APPLY VOLTAGE BETWEEN ETHERNET CABLE PAIRS, SPEC 44 PAIRS AND GROUND, PASSING ≥ 5 GOHMS. PERFORM IR ON SPEC 44 WIRE AT 1000 VDC, APPLY THIS TEST VOLTAGE TO SPEC 44 PAIRS AND GROUND ONLY, PASSING ≥ 10 GOHMS.

NOTE 3: PERFORM 5 HYDROSTATIC PRESSURE CYCLES. HOLD AT PRESSURE FOR A MINIMUM OF 10 MINUTE ON CYCLES 1-4. HOLD AT PRESSURE FOR A MINIMUM OF 12 HOURS ON CYCLE 5.

NOTE 4: PERFORM ETHERNET CABLE TESTING THROUGH JUMPER ETHERNET CABLING WITH THE FOLLOWING TEST EQUIPMENT SOFTWARE SETUP IN TABLE BELOW. RECORD ONLY PASS/FAIL OUTPUT OF TEST EQUIPMENT.

TEST EQUIPMENT =	OMNI SCANNER
PROJECT =	IEEE
AUTO TEST =	100 BASEX
CABLE =	CAT 5 UTP

CONTROLLED COPY

NOTE 5: DO NOT PERFORM TEST SEQUENCE #3 ON P/N 1033248.

Mars R4391A

J.R. 11-21-04

***** Instructions for running tests on Fluke DSP-4000 meter

- 1 Turn meter to "setup" press "enter" use up and down to select test desired (run in order 10 / 100 / 1000 base) highlight test press "enter" for which test to run
- 2 The next screen select the type of cable under test. for Muhawk select "UTP / CAT 5 then press "enter"
- 3 Turn the knob to "auto test" (note the screen should show the prior test and cable selected) turn on the remote then press the "test button"
- 4 Once the test is complete record pass fail and headroom below. Press "save" once record the file name below
- 5 Repeat steps 1-4 for 10base-T / 100base-TX / 1000base-T (in order listed)
- 6 Once the 1000base-T is saved continue to step #6 below

***** Instructions for downloading data from Fluke DSP-4000 meter

- 6 Upon saving the file for each test below record the file name and head room for each test. Run the three test consecutively (ie 10 100 and 1000 base in order)
- 7 Once the 1000 base is run and saved plug into the rs-232 port to the PC open "Fluke Networks" software (LinkWare) if not already open.
- 8 click "File" then "Open". Open file named "R4391A Fat data". Click file then select "import from" then select "DSP-4000"
- 9 select "Neptune mars" file from list on right. Then on list on left hold control then click to highlight the files wanted to download from the meter (should be three)
- 10 click OK the file will save. Check the list once downloaded to make sure they are present toward the end (the files will list in order)
- 11 the plots / graphs must be downloaded while the test is still on the meters active memory (on screen)
- 12 click "utilities" then select "DSP 4x00" then select "detailed test data" click "select all the click "save"
- 13 in the new window type the file name of the current 1000 base file name to be saved then click "save"
- 14 unplug meter downloading is finished and press the save button at the top of the window named "R4391A Fat data"
- 15 ready to run test on next jumper

Jumper Serial# 1033249-1

Test type	Step	File name	Head room (db)	Pass / Fail
10 base t	0 pre	ODI-FAT-01A 46	40.7	P
100 base t	0 pre	ODI-FAT-01A 47	18.8	P
1000 base t	0 pre	ODI-FAT-01A 48	N/A	F
10 base t	3000	ODI-FAT-01A 57	45.2	P
100 base t	3000	ODI-FAT-01A 58	20.4	P
1000 base t	3000	ODI-FAT-01A 59	N/A	F
10 base t	0 post	ODI-FAT-01A 64	43.5	P
100 base t	0 post	ODI-FAT-01A 67	19.3	P
1000 base t	0 post	ODI-FAT-01A 68	N/A	F

Jumper Serial# 1033249-3

Test type	Step	File name	Head room (db)	Pass / Fail
10 base t	0 pre	ODI-FAT-01A 51	41.9	P
100 base t	0 pre	ODI-FAT-01A 52	17.3	P
1000 base t	0 pre	ODI-FAT-01A 53	N/A	F
10 base t	3000	ODI-FAT-01A 60	49.2	P
100 base t	3000	ODI-FAT-01A 61	17.3	P
1000 base t	3000	ODI-FAT-01A 62	N/A	F
10 base t	0 post	ODI-FAT-01A 69	48.0	P
100 base t	0 post	ODI-FAT-01A 70	17.8	P
1000 base t	0 post	ODI-FAT-01A 71	N/A	F

Jumper Serial# 1034923-1

Test type	Step	File name	Head room (db)	Pass / Fail
10 base t	0 pre	ODI-FAT-01A 54	41.6	P
100 base t	0 pre	ODI-FAT-01A 55	20.4	P
1000 base t	0 pre	ODI-FAT-01A 56	N/A	F
10 base t	3000	ODI-FAT-01A 63	41.0	P
100 base t	3000	ODI-FAT-01A 64	20.0	P
1000 base t	3000	ODI-FAT-01A 65	N/A	F
10 base t	0 post	ODI-FAT-01A 72	41.0	P
100 base t	0 post	ODI-FAT-01A 73	20.2	P
1000 base t	0 post	ODI-FAT-01A 74	N/A	F

Jumper Serial#

Test type	Step	File name	Head room (db)	Pass / Fail
10 base t	0 pre	ODI-FAT-01A		
100 base t	0 pre	ODI-FAT-01A		
1000 base t	0 pre	ODI-FAT-01A	N/A	
10 base t	3000	ODI-FAT-01A		
100 base t	3000	ODI-FAT-01A		
1000 base t	3000	ODI-FAT-01A	N/A	
10 base t	0 post	ODI-FAT-01A		
100 base t	0 post	ODI-FAT-01A		
1000 base t	0 post	ODI-FAT-01A	N/A	