



Waters Overall Account Update

15 Apr 2020

2020 Overall CI Update

In Progress
 Complete

Continuous Improvement Plan – Focus Areas		Objective/Goal	Responsible	Jan-Mar	Apr-Jun	Jul- Sep	Oct - Dec
Quality	1. Yield Improvement – Soft failures	Focus top 2 failures (Soft failures)	Joel / Hua Zhen	Comm Failure Dual Noise	Comm Failure Dual Noise	-	Leak Detection Failure
	2. Yield Improvement – Hard failures	Focus on top 2 failures (Hard failures)	KS Chua	M-210000520 GPV	Interface Tubing M-210000520 GPV	-	-
	3. Field data -> Factory quality improvement	Focus on Hot Part / Start up failures	KS Chua	HP	HP		
Enhancement	1. eDHR	Increased process robustness	Aldwin	BSM/QSM	BSM/QSM	Alliance	Alliance
	2. Pick to Scan (Supermart)	Enables picking using barcode.	Anil	Hardware Trial	Implementation for KTS	Enhancement for KTE	Implementation for KTE
	3. CR - Sheet metal Value Engineering.	Sheet metal CR	Amy	Phase 1	-	-	-
	4. CR - PCBA Value Engineering.	PCBA CR	Amy	Phase 1	-	-	-
	5. Shipping box optimization(Joint lean workshop) for Alliance & Detectors	Shipping Box optimization	Gary / Niu Niu	Pending ECO	Spares	Spares	-
	6. Automation serial number traceability to PO.	Enhanced Baan - for SN scanning during shipment	Niu Niu	Plan	Go Live	-	-
4M	1. Recertification and Competency Check	Operator compliance to ASP/TSP	Aldwin / Gary	Pumps	Alliance	BSM/QSM	Detectors
	2. Capacity review & enhancement.	Capacity	Amy / Aldwin				
	3. Q Alert linkage to eDHR.	Increased process robustness	Aldwin	-	-	BSM/QSM	-
	4. TMD linkage to eDHR.	Increased process robustness	Aldwin	-	-	-	BSM/QSM
	5. Testers upgrade	Refurbishment of test equipment	Joel/Hua Zhen	New pump tray tester	Alliance final testers(x4)	Alliance final testers(x4)	BSM/QSM final testers (x8)
	6. Tester capacity Review	Refurbishment of test equipment	Joel/Hua Zhen	Pump tray testers(3x)	Alliance final testers(x4)	Alliance final testers(x4)	BSM/QSM final testers (x8)

Comm Failure: Empower Node Properties updated – Monitoring in progress

Dual Noise: Verification of screw head touching C-clip – Close

eDHR: PCN Approved. Flex Change Request Approval – in progress

Pick to Scan: hardware purchase completed – Trial run in progress

Shipping Box optimization: ECO receive. FlexQ Approval in progress

SN traceability: Implemented on BSM/QSM, Alliance, Detector, Pump

Competency check: 186001515 completed and report compilation submitted

Capacity Enhancement: New pump tray station release to production after validation.

flex

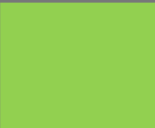
The background of the slide is a light gray with a complex pattern of thin, dark gray lines and circles. These elements are arranged in a way that suggests a technical or architectural drawing, with some lines forming rectangular frames and others creating circular paths or orbits. The overall effect is a clean, modern, and somewhat abstract aesthetic.

Quality

Yield Improvement Activity

 In Progress
 Complete

Gantt Chart:

No.	Activity	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
1	Data analysis and identify 2 top soft failures - Communication Failure - Leak Detection Failure												
1	Communication Failure: Investigation and 4M (Joint effort Flex and WPPL) - Perform SGA												
	Propose Corrective Action and review with WPPL		Plan										
	Implement of Corrective Action - Milford involvement				Plan								
	Monitoring of Effectiveness Check				Plan	Plan	Plan						
2	Dual Noise Failure: Investigation and 4M (Joint effort Flex and WPPL) - Perform SGA												
	Propose Corrective Action and review with WPPL		Plan										
	Implement of Corrective Action - Milford involvement		Plan	Plan									
	Monitoring of Effectiveness Check			Plan	Plan	Plan	Plan						

Gantt chart need to be updated

Yield Improvement Activity

 In Progress
 Complete

Gantt Chart:

No.	Activity	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
3	Interface Tubing: Investigation and 4M (Joint effort Flex and WPPL) - Perform SGA				Plan								
	Propose Corrective Action and review with WPPL		Plan	Plan	Plan								
	Implement of Corrective Action - Milford involvement			Plan	Plan	Plan							
	Monitoring of Effectiveness Check			Plan	Plan	Plan	Plan	Plan	Plan				
4	Leak Detection Failure: Investigation and 4M (Joint effort Flex and WPPL) - Perform SGA				Plan						Plan		
	Propose Corrective Action and review with WPPL					Plan					Plan		
	Implement of Corrective Action - Milford involvement					Plan	Plan					Plan	
	Monitoring of Effectiveness Check						Plan	Plan	Plan				Plan

Yield Improvement – Communication Failure

Project Title : Yield Improvement – Communication Failure

Line / Area : Detectors

Category : Operation

Type : SGA

Team Lead : Joel

Team Members : Hua Zhen, David, Shamsul, Aldwin

Presentation Situation and Problem :

Based on 2019 FPY data, current failure rate is 9.68%

Implemented daily clearing of DHCP, remove rogue IP address and uninitialized S/N but problem still exists.

Objectives:

- To improve communication failure rate by 50%
- To gather 100 data points per station for 6 Tester (total of 600 data)
- To publish status on weekly Engineering Meeting

Goals:

No	CTQ	Before	Target	% Improvement
1	Communication failure rate	9.68%	5 %	51%

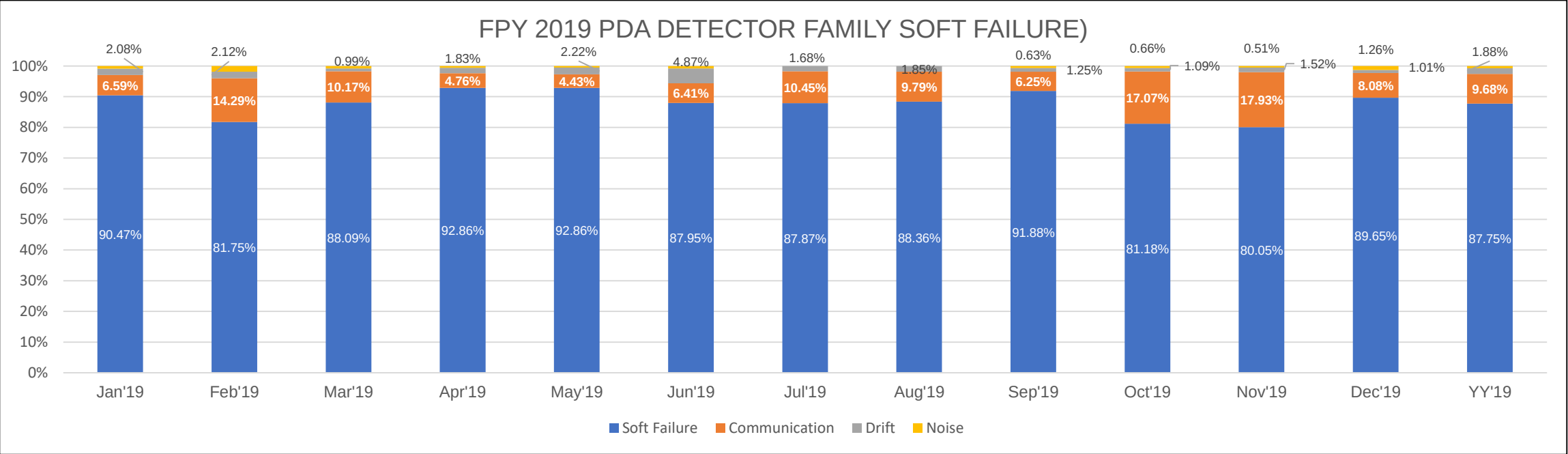
Yield Improvement – Communication Failure

Model – PDA Family

Total Test	Jan-20	Feb-20	Mar-20
	347	379	294
Loss Comm	44	56	36
% FPY Contribution	12.68%	14.78%	12.24%
186002998	3	3	2
186299800	31	26	13
185015032	7	0	10
186015033	1	15	4
186015034	0	0	0
186015053	1	0	1
186017003	1	12	6
186017013	0	0	0

Tester comm failure by each tester

FPY – PDA Detector Family

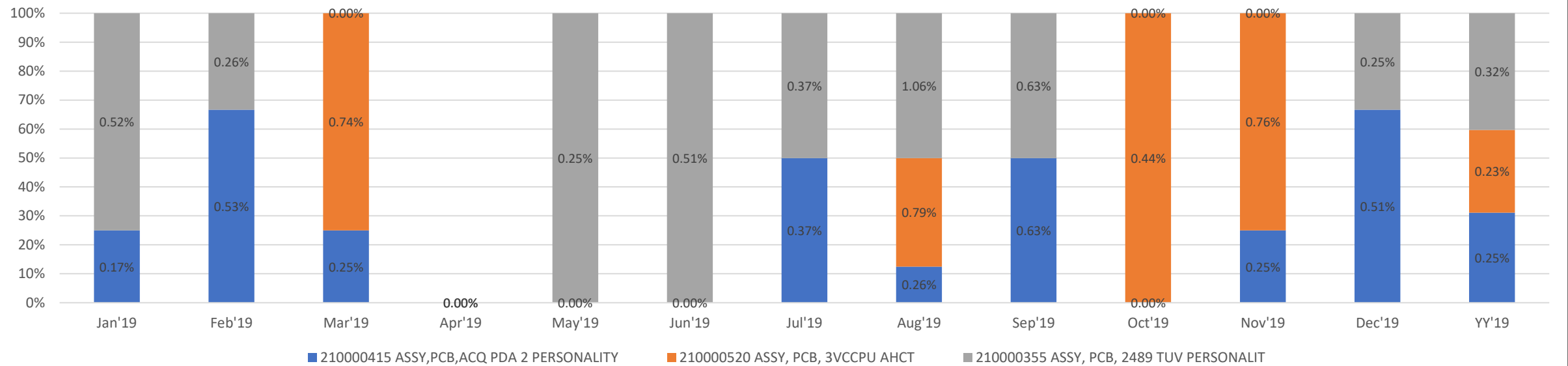


FPY 2019 PDA DETECTOR FAMILY (SOFT FAILURE)	Jan'19	Feb'19	Mar'19	Apr'19	May'19	Jun'19	Jul'19	Aug'19	Sep'19	Oct'19	Nov'19	Dec'19	YY'19
FPY after removing Loss Comm	90.47%	81.75%	88.09%	92.86%	92.86%	87.95%	87.87%	88.36%	91.88%	81.18%	80.05%	89.65%	87.75%
Communication	6.59%	14.29%	10.17%	4.76%	4.43%	6.41%	10.45%	9.79%	6.25%	17.07%	17.93%	8.08%	9.68%
Drift	2.08%	2.12%	0.99%	1.83%	2.22%	4.87%	1.68%	1.85%	1.25%	1.09%	1.52%	1.01%	1.88%
Noise	0.87%	1.85%	0.74%	0.55%	0.49%	0.77%	0.00%	0.00%	0.63%	0.66%	0.51%	1.26%	0.69%

★ Team to focus on this failure

FPY – PDA Detector Family

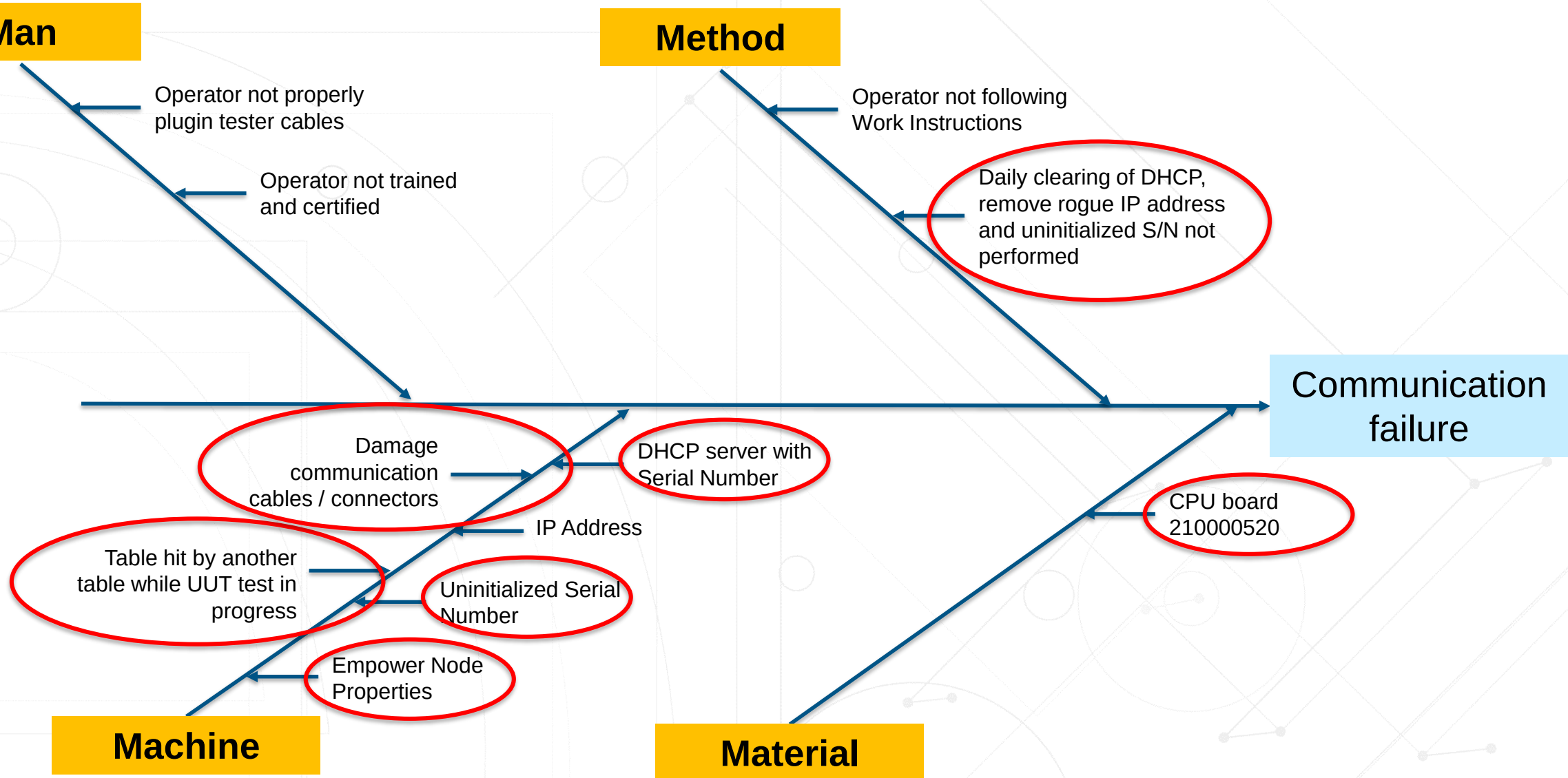
FPY 2019 PDA DETECTOR FAMILY (HARD FAILURE)



FPY 2019 PDA DETECTOR FAMILY (HARD FAILURE)	Jan'19	Feb'19	Mar'19	Apr'19	May'19	Jun'19	Jul'19	Aug'19	Sep'19	Oct'19	Nov'19	Dec'19	YY'19
FPY after removing hard failure	99.31%	99.21%	99.01%	100.00%	99.75%	99.49%	99.25%	97.88%	98.75%	99.56%	98.99%	99.24%	99.20%
210000415 ASSY,PCB,ACQ PDA 2 PERSONALITY	0.17%	0.53%	0.25%	0.00%	0.00%	0.00%	0.37%	0.26%	0.63%	0.00%	0.25%	0.51%	0.25%
210000520 ASSY, PCB, 3VCCPU AHCT	0.00%	0.00%	0.74%	0.00%	0.00%	0.00%	0.00%	0.79%	0.00%	0.44%	0.76%	0.00%	0.23%
210000355 ASSY, PCB, 2489 TUV PERSONALITY BOARD	0.52%	0.26%	0.00%	0.00%	0.25%	0.51%	0.37%	1.06%	0.63%	0.00%	0.00%	0.25%	0.32%

- Hard Failure significantly better than soft failure
- To continuously monitor through FPY

Yield Improvement – Communication Failure 4M



Yield Improvement – Communication Failure 4M

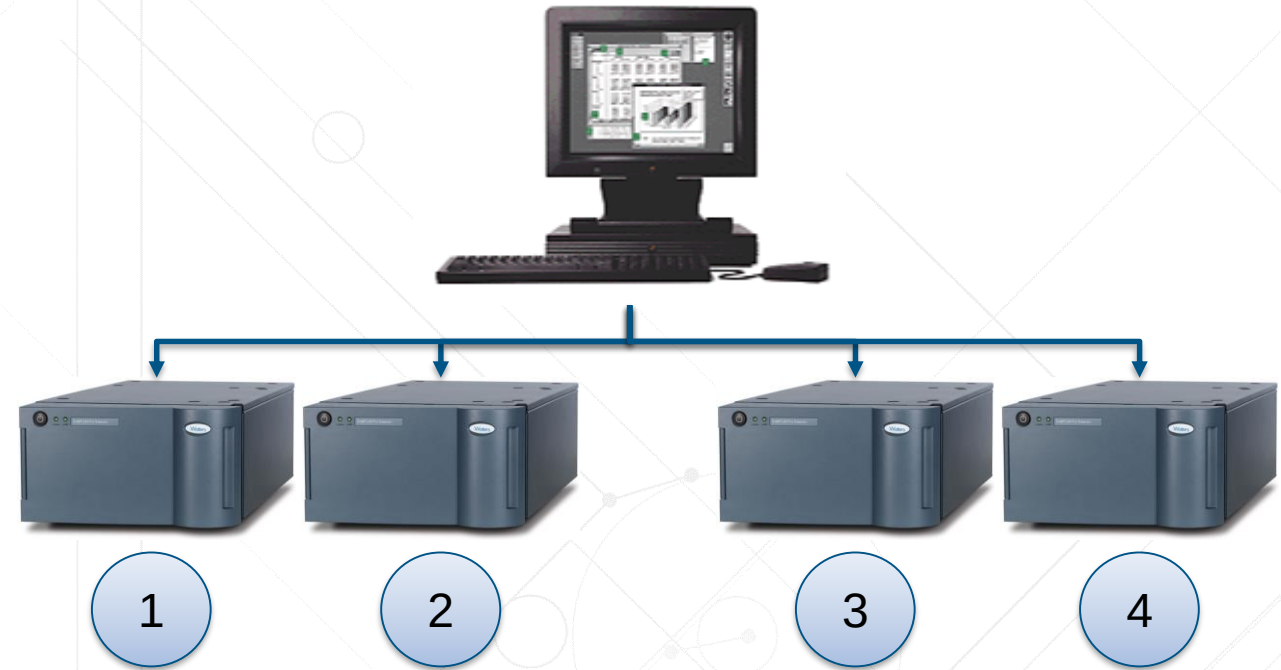
	Possible Causes	Verification	Possible cause (Y/ N)	Proposed Actions
Man	1) Operator not properly plugin tester cables	Verified, trained/ certified Tech/Operators performing Detector Testing as per document provide by WPPL. No abnormality found.	N	N/A
	2) Operator not trained and certified	Verified that Tech/Operators performing test for detectors as per document 735001616 provided by Waters. No abnormality found	N	N/A
Method	Operator not following Work Instructions	All test procedures as per TSP provide by Waters test PDA Detector Family. Refer to PN table at 735001613 No abnormality found	N	N/A
	Daily clearing of DHCP, remove rogue IP address and uninitialized S/N not performed	Daily clearing of DHCP, remove rogue IP address and uninitialized S/N is clearly mentioned and learned by technician / operator performing the test for PDA Detector Family	N	N/A
Material	CPU board 210000520	Verified NCMR flow and did not see reject related to CPU related to loss com	N	N/A
Machine	Test Station: 1. DHCP server with Serial Number 2. IP Address 3. Uninitialized Serial Number 4. Empower Node Properties 5. Damage communication cables / connectors 6. Using trolley instead of fixed table	UUT is tested as complete assembled unit and failure able to detect to below station. Test stations have yearly PM for CPU as per station required.. When is this implemented?	Y	To perform daily task by Test EA as below before release tester to production - Restart tester CPU (Workstation computer) - Click Stop Acquity Process - Clear Waters DHCP Server to address item 1, 2, 3, 4 - Ensure the Ethernet cable lock is not broken to address item 5.

Yield Improvement – Communication Failure

Possible Cause

When communication failure happens?

- Before Test
- Middle of Test
- After Test
- Plugin of additional units
- Configuration of tester vs physical connection
- Disturb units under test
- Tester wise



Yield Improvement – Communication Failure

When implemented? Effectiveness check?

- Updated the Empower Node Properties for Testers TE82882-8, -9, -10, -11, -13, -14 per TSP under section 6.5.1

6.5. To troubleshoot Lost Comm errors:

- 6.5.1. In the list of instruments, there should only be up to 20 systems (Address ACQ-PDA#1 through #4, and #9 through #12, W2998#5 through #8, A10#13-16, A30#17-20). If there are any other systems listed with typical serial numbers (A09UPD011M) or 'serial number uninitialized', click **remove**.

BEFORE

Empower	Node TE82882-8 Properties		Node TE82882-9 Properties		Node TE82882-10 Properties		Node TE82882-11 Properties		Node TE82882-13 Properties		Node TE82882-14 Properties	
	Type	Address	Type	Address	Type	Address	Type	Address	Type	Address	Type	Address
1	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#12	W2998	W2998#5	W2998	W2998#5	A10-PDA	A10-PDA#16
2	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#11	W2998	W2998#6	W2998	W2998#6	A10-PDA	A10-PDA#15
3	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#10	W2998	W2998#7	W2998	W2998#7	A10-PDA	A10-PDA#14
4	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#9	W2998	W2998#8	W2998	W2998#8	A10-PDA	A10-PDA#13
5	W2998	W2998#5	W2998	W2998#8	W2998	W2998#5	ACQ-PDA	ACQ-PDA#9	A10-PDA	A10-PDA#13	W2998	W2998#5
6	W2998	W2998#6	W2998	W2998#7	W2998	W2998#6	ACQ-PDA	ACQ-PDA#10	A10-PDA	A10-PDA#14	W2998	W2998#6
7	W2998	W2998#7	W2998	W2998#6	W2998	W2998#7	ACQ-PDA	ACQ-PDA#11	A10-PDA	A10-PDA#15	W2998	W2998#7
8	W2998	W2998#8	W2998	W2998#5	W2998	W2998#8	ACQ-PDA	ACQ-PDA#12	A10-PDA	A10-PDA#16	W2998	W2998#8
9	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#1	W2998	W2998#4	A10-PDA	A10-PDA#7
10	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#2	W2998	W2998#1	ACQ-PDA	ACQ-PDA#4
11	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#3	A10-PDA	A10-PDA#7	ACQ-PDA	ACQ-PDA#9
12	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#4	A10-PDA	A10-PDA#6	ACQ-PDA	ACQ-PDA#10
13	A30-PDA	A30-PDA#18	A10-PDA	A10-PDA#14	A30-PDA	A30-PDA#20	A10-PDA	A10-PDA#14	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#11
14	A30-PDA	A30-PDA#17	A10-PDA	A10-PDA#13	A30-PDA	A30-PDA#17	A10-PDA	A10-PDA#15	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#12
15	A30-PDA	A30-PDA#19	A10-PDA	A10-PDA#15	A30-PDA	A30-PDA#19	A10-PDA	A10-PDA#16	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#1
16	A30-PDA	A30-PDA#20	A10-PDA	A10-PDA#16	A30-PDA	A30-PDA#18	A10-PDA	A10-PDA#13	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#2
17	A10-PDA	A10-PDA#13	ACQ-PDA	ACQ-PDA#5	A10-PDA	A10-PDA#14	A10-PDA	A10-PDA#7	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#3
18	A10-PDA	A10-PDA#14	ACQ-PDA	ACQ-PDA#7	A10-PDA	A10-PDA#16			ACQ-PDA	ACQ-PDA#1		
19	A10-PDA	A10-PDA#15	ACQ-PDA	ACQ-PDA#8	A10-PDA	A10-PDA#15			ACQ-PDA	ACQ-PDA#3		
20	A10-PDA	A10-PDA#16	W2998	W2998#G199988578A	A10-PDA	A10-PDA#13			ACQ-PDA	ACQ-PDA#4		
21	W2998	W2998#2			A10-PDA	A10-PDA#7						

Uncommon Red system

AFTER

Empower	Node TE82882-8 Properties		Node TE82882-9 Properties		Node TE82882-10 Properties		Node TE82882-11 Properties		Node TE82882-13 Properties		Node TE82882-14 Properties	
	Type	Address	Type	Address	Type	Address	Type	Address	Type	Address	Type	Address
1	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#12	W2998	W2998#5	W2998	W2998#5	A10-PDA	A10-PDA#16
2	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#11	W2998	W2998#6	W2998	W2998#6	A10-PDA	A10-PDA#15
3	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#10	W2998	W2998#7	W2998	W2998#7	A10-PDA	A10-PDA#14
4	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#9	W2998	W2998#8	W2998	W2998#8	A10-PDA	A10-PDA#13
5	W2998	W2998#5	W2998	W2998#8	W2998	W2998#5	ACQ-PDA	ACQ-PDA#9	A10-PDA	A10-PDA#13	W2998	W2998#5
6	W2998	W2998#6	W2998	W2998#7	W2998	W2998#6	ACQ-PDA	ACQ-PDA#10	A10-PDA	A10-PDA#14	W2998	W2998#6
7	W2998	W2998#7	W2998	W2998#6	W2998	W2998#7	ACQ-PDA	ACQ-PDA#11	A10-PDA	A10-PDA#15	W2998	W2998#7
8	W2998	W2998#8	W2998	W2998#5	W2998	W2998#8	ACQ-PDA	ACQ-PDA#12	A10-PDA	A10-PDA#16	W2998	W2998#8
9	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#4
10	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#2	ACQ-PDA	ACQ-PDA#9	ACQ-PDA	ACQ-PDA#9
11	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#10	ACQ-PDA	ACQ-PDA#10
12	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#11	ACQ-PDA	ACQ-PDA#11
13	A30-PDA	A30-PDA#18	A10-PDA	A10-PDA#14	A30-PDA	A30-PDA#20	A10-PDA	A10-PDA#14	ACQ-PDA	ACQ-PDA#12	ACQ-PDA	ACQ-PDA#12
14	A30-PDA	A30-PDA#17	A10-PDA	A10-PDA#13	A30-PDA	A30-PDA#17	A10-PDA	A10-PDA#15	ACQ-PDA	ACQ-PDA#1	ACQ-PDA	ACQ-PDA#1
15	A30-PDA	A30-PDA#19	A10-PDA	A10-PDA#15	A30-PDA	A30-PDA#19	A10-PDA	A10-PDA#16	ACQ-PDA	ACQ-PDA#3	ACQ-PDA	ACQ-PDA#2
16	A30-PDA	A30-PDA#20	A10-PDA	A10-PDA#16	A30-PDA	A30-PDA#18	A10-PDA	A10-PDA#13	ACQ-PDA	ACQ-PDA#4	ACQ-PDA	ACQ-PDA#3
17	A10-PDA	A10-PDA#13			A10-PDA	A10-PDA#14						
18	A10-PDA	A10-PDA#14			A10-PDA	A10-PDA#16						
19	A10-PDA	A10-PDA#15			A10-PDA	A10-PDA#15						
20	A10-PDA	A10-PDA#16			A10-PDA	A10-PDA#13						

- After the Empower Node Properties update:
 - Tester TE82882-8, -10 having 20 system address.
 - Tester TE82882-11, -13, -14 having 16 system address.
 - A10-PDA and A30-PDA are not currently running at Flex

Yield Improvement – Communication Failure

Damage communication cables / connectors



Ethernet Connector Lock
– Good Condition



Ethernet Connector Lock
– Not good Condition

	PDA FAMILY TEST STATION with Good Latch																								Check Date
Tester ID	TE82882-8				TE82882-9				TE82882-10				TE82882-11				TE82882-13				TE82882-14				
Position	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Good Lock																									
Damage Lock																									20-Mar-20
Good Lock																									
Damage Lock																									23-Mar-20
Good Lock																									
Damage Lock																									27-Mar-20

- All ethernet ports has been verified in good condition (27-Mar-2020)
- Monitoring in progress

Loss Comm monitoring action items:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 8 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

23 MAR 2020 - DO NOT USE (POS 1,2,3,4, DAMAGED LOCK)
24 MAR 2020 - DO NOT USE (POS 3,4, DAMAGED LOCK)
25 MAR 2020 - All ethernet cable lock has been repaired.
End of data

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 9 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE: N/A

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 10 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE: N/A

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 11 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE: N/A

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 12 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE: N/A

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 14 Month: MAR 2020

ITEM	DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Ensure the Ethernet Cable Lock is not broken or damage																															
2	Restart tester CPU (Workstation Computer)																															
3	Click Stop Acuity Process																															
4	Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE: N/A

- As of 27 Mar 2020 – All connectors check and verified good

Loss Comm monitoring action items:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 8 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 9 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 10 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 11 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 12 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

LOSS COMM IMPROVEMENT ACTIVITY

TE82882- 14 Month: Apr 2020

ITEM/DAILY TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1 Ensure the Ethernet Cable Lock is not broken or damage																															
2 Restart tester CPU (Workstation Computer)																															
3 Click Stop Acquly Process																															
4 Clear Waters DHCP Server																															

Performed By: Mohd Shamsul

NOTE:

- As of 07 Apr 2020 – All connectors check and verified good

Yield Improvement – Communication Failure

Table hit by another table while UUT test in progress

BEFORE :



Tester without spacer in between UUT

Tester with spacer in between UUT accidental bumps on the UUT potentially disturbing communication between UUT and Tester



AFTER:



Tester with spacer in between UUT

Tester with spacer in between UUT avoid accidental bumps on the UUT potentially disturbing communication between UUT and Tester



Effective? Since 09Mar2020

TE82882-13 Introduced a spacer between test position to avoid knocking table – 09 Mar 2020

Yield Improvement – Communication Failure Activities

Action Item	Who	Due Date	Actual Date	% Completed
1. Check sheet for production to tick root cause of failure	Joel	03 Mar 20	03 Mar 20	
2. Add pre-check conditions in check list	Joel	03 Mar 20	03 Mar 20	
3. Tester 8 blocked for PM of Ethernet Heads	Joel	02 Mar 20	02 Mar 20 Only Tester 8	
4. Removed other systems listed and other serial number uninitialized from Testers TE82882-8, TE82882-9, TE82882-10, TE82882-11, TE82882-13, TE82882-14	Joel, David, Aldwin	06 Mar 20	06 Mar 20	
5. Installed with spacer in between UUT at TE82882-13 for simulation and study	Joel, Aldwin	09 Mar 20	09 Mar 20	
6. Introduce check list of daily checking of : (1) Ethernet cable lock not damage (2) Restart tester CPU (3) Click Stop Acquity Process (4) Clear Waters DHCP Server	Joel, Shamsul	23 Mar 20	23 Mar 20	
7. Replace Ethernet Headers per test position	Joel	05 Mar 20	27 Mar 20	
8. Collect 100 data points per tester	Joel	15 Apr 20	30 Jun 20	

