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Kind of FME.	CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO) Design FMEA	7	© Process FMEA Members' signature: (include PRE2 Khiêm	2 cross-function sections at least)		Prepared by:	Approved by: (Dept./Div. manager's approvel for high risk case, other cases can be approved by section managers)	Custo		approval (if required):	FMEA Number: 0-PR-0 Version: 2	12-0-FO-001-4-RC-0166				
	pFMEA for Su (or project) spe	abmarine 2in1 coupler ic: AOP81-6040-27-xx		1-	QAE Thu Trang IN 104 PRE2 Việt.NT		ThangHX	Typ N Tung	Signat	wre and	date:	FMEA Original Date: 12-Dec- FMEA Revision Date: 11-Oct					
	By reviewing and All the risks and Accepta	risk for manufacturing process were controlled and applying of ance for mass production.									∠ B∑						
Item number	Process	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect	R P N 5
1.1	Preparation	Material by manufacturing ID correctly	(3) FOV internal requirement	Mixing material between ID	Wrong traceability	2	Do not operate with material by each ID	Training operator follow process rule (do one by one) Visual control by label for ID, material code/Lot number ECS control lot ID by delivery	1	2	Risk acceptance	N/A	N/A	2	1	1	2
1.2	Preparation	Material by manufacturing ID correctly	(3) FOV internal requirement	Wrong lot Number	Wrong traceability	2	Operation with many IDs parallel at same working place	Training operator follow process rule (do one by one) Visual control by label for ID, material code/Lot number ECS control lot ID by delivery	1	2	Risk acceptance	N/A	N/A	2	1	1	2
1.3	Preparation	Material by manufacturing ID correctly	(3) FOV internal requirement	Wrong lot Number	Wrong traceability	2	Keep many kind material in the same working location	Training OP follow JBS for 2S, material control (one by one Lot) Visual control for material before/after processing, stock/doing	2	8	Risk acceptance	N/A	N/A	2	2	2	8
1.4	Preparation	Material by manufacturing ID correctly (Neoceram, FEP, SUS pipe,)	(3) FOV internal requirement	Wrong Material type	Wrong product structure	5	Operator pick wrong type (Label is correct)	1. Check material name and code for ID before input to process follow process instruction (PS, JBS) 2. Make clear Neo shape classification in PS, JBS ((Detection at Elongation packing))	2	10	Risk acceptance	N/A	N/A	5	1	2	10
1.5	Preparation	Correct FEP tube length	(3) FOV internal requirement	Short tube length	Cannot cover Neoceram follow Customer spec	2	Setting FEP tube do not touch stopping point of Cutting tool	Checking the length of cutting by sample of each cutting Lot Compare FEP length & NEO length at Elong packing Appreance check after Elong	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	3	2	12

. Identification the position cutting tool for each specific length 2 Using wrong position of cutting 3 2. Checking the length of cutting by sample of each cutting Lot Risk acceptance but need Cannot cover Neoceram follow N/A 2 3 2 1.6 Preparation Correct FEP tube length (3) FOV internal requirement Short tube length 3. Compare FEP length & NEO length at Elong packing monitoring the result of risk Customer spec tool 4. Appreance check after Elong 1. Identification the position cutting tool for each specific Cannot cover Neoceram follow Using wrong position of cutting 2 2. Checking the length of cutting by sample of each cutting Lot 2 N/A 2 1.7 Preparation Correct FEP tube length (3) FOV internal requirement | Long tube length 4 Risk acceptance N/A Customer spec 3. Compare FEP length & NEO length at Elong packing 4. Appreance check after Elong 1. Training OP follow PS/JBS for requirement of cleaning 2 Do not use correct cleaning solvent solvent for each step and material type. (1) Customer's 2 4 Risk acceptance N/A N/A 2 1 2 1.8 Preparation Material was clean: Neoceram Contamination on Neoceram UV peel off 2. Visual control for cleaning solvent by label of material requirement/agreement code/name and its container/beaker 1. Training OP follow PS/JBS for requirement of cleaning 2 Do not use correct cleaning solvent (1) Customer's solvent for each step and material type. 2 3 6 Risk acceptance N/A N/A 1 3 Contamination on FEP tube | Optical properties fail 1.9 Preparation Material was clean: FEP tube 2. Visual control for cleaning solvent by label of material requirement/agreement code/name and its container/beaker 1. Training OP follow PS/JBS for requirement of cleaning 2 Do not use correct cleaning (1) Customer's solvent for each step and material type. Material was clean: FEP tube 2 2 1.10 Preparation Contamination on Neoceram Optical properties fail 4 Risk acceptance N/A N/A 1 2 2. Visual control for cleaning solvent by label of material and Neoceram solvent requirement/agreement code/name and its container/beaker

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1.11	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination on Neoceram	Optical properties fail	2	Do not replace new solvent each time	Training OP follow PS/JBS for requirement of cleaning solvent for each step and material type. Visual control for cleaning solvent by lable of material code/name and its container/beaker	2	4	Risk acceptance	N/A	N/A	2	1	2 4
1.12	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination on Neoceram	Optical properties fail	2	Do not replace new solvent each time	Training OP follow PS/JBS for requirement of cleaning solvent for each step and material type. Visual control for cleaning solvent by lable of material code/name and its container/beaker	2	4	Risk acceptance	N/A	N/A	2	1	2 4
1.13	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination on Neoceram	Optical properties fail	2	Contamination from working place attached after cleaning 3	Training to OP for process rule for 2S (clean working area) Check appearance sampling after cleaning 3. Keep material after cleaning in good tray/bag/cleanbooth	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	3	2 12
1.14	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination was not removed well by cleaning	High reject% at Appearance After Elongation	2	Using wrong cleaning mode of cleaning machine	Training OP how to use cleaning machine Attached label on mode button	2	8	Risk acceptance	N/A	N/A	2	2	2 8
1.15	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination was not removed well by cleaning	High reject% at Appearance After Elongation	2	Set the cleaning time less than specified cleaning time	Set up cleaning time for Ultrasonic machine follow process instruction (PS, JBS)	2	8	Risk acceptance	N/A	N/A	2	2	2 8
1.16	Preparation	Material was clean: FEP tube and Neoceram	(1) Customer's requirement/agreement	Contamination was sticked again after well cleaning	High reject% at Appearance After Elongation	2	Jig/Tweezer/Container is dirty 2	Jig/Tweezer/Container must be cleaned follow process instruction (PS, JBS)	2	8	Risk acceptance	N/A	N/A	2	2	2 8
1.17	Preparation	Material was dry well: FEP tube	(1) Customer's requirement/agreement	Remaining liquid inside FEP	High reject% at Appearance After Elongation	2	Dry time not enough 2	Check appearance sampling after cleaning Keep material after cleaning in good traybox The timer's calibration period must be checked follow process instruction (PS, JBS)	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
1.18	Preparation	Material was dry well: Neoceram	(1) Customer's requirement/agreement	Remaining liquid inside NEO groove	High reject% at Appearance After Elongation	2	Dry time not enough 2	Check appearance 100% after cleaning Keep material after cleaning in good tray-box The timer's calibration period must be checked follow process instruction (PS, JBS)	1	4	Risk acceptance	N/A	N/A	2	2	1 4
1.19	Preparation	Material was clean well: SUS pipe	(3) FOV internal requirement	Contamination on SUS pipe	Medome peel off	2	Dry time not enough 2	Applying air blow with timer. Check appearance sampling after cleaning Ex Keep material after cleaning in bag Appearance check at SUS 100%	2	8	Risk acceptance	N/A	N/A	2	2	2 8
1.20	Preparation	Material was clean well: SUS pipe	(3) FOV internal requirement	Contamination on SUS pipe	Loctic peel off	2	Dry time not enough 2	Applying air blow with timer. Check appearance sampling after cleaning Ex Keep material after cleaning in bag Appearance check at SUS 100%	2	8	Risk acceptance	N/A	N/A	2	2	2 8
1.21	Preparation	SUS pipe laser printing and Barcode label is same number	(3) FOV internal requirement	Wrong mapping label and SUS pipe number	Difficult to traceability	2	Do not control ordering of material by Serial number (1 label -1 sus pipe)	I. Instruct operation as JBS to control order of SUS pipe number and label by jig. Apply software at input SUS packing for checking product code & label Visual checking label & content of SUS.	2	4	Risk acceptance	N/A	N/A	2	1	2 4
1.22	Preparation	Enough quantity for each material bag	(3) FOV internal requirement	Lack of label or SUS pipe in bag	Could not input at SUS packing	2	Do not control quantity each parts	I. Instruct operation as PS to know requirement of label quantity Control material quantity by template/jig Instruct by process rule to check material remained each Lot	2	4	Risk acceptance	N/A	N/A	2	1	2 4
2.1	Cutting Fiber	Correct Fiber type	(1) Customer's requirement/agreement	Wrong material code	Affect to optical properties and structure	5	Wrong pick up fiber bobbin 1	Control product type and material Lot (material type) by Cutting program	1	5	Risk acceptance	N/A	N/A	5	1	1 5
2.2	Cutting Fiber	Correct Fiber length	(1) Customer's requirement/agreement	Short fiber cutting length	Wrong product structure	4	Wrong select cutting of product code 2	Control and select cutting condition by program follow product code and fiber code Fiber length is manual cross check at first set of cutting	1	8	Risk acceptance	N/A	N/A	4	2	1 8
2.3	Outting Fiber	Correct Fiber length	(1) Customer's requirement/agreement	Short fiber cutting length	Wrong product structure	4	Cutting machine is malfunction (error) 1	Fiber length is manual cross check at first set of cutting	2	8	Risk acceptance	N/A	N/A	4	1	2 8
2.4	Cutting Fiber	Correct Fiber length	(3) FOV internal requirement	Long fiber cutting length	Waste fiber material	1	Wrong select cutting of product code 2	Control and select cutting condition by program follow product code and fiber code Fiber length is manual cross check at first set of cutting	1	2	Risk acceptance	N/A	N/A	1	2	1 2
2.5	Outting Fiber	Correct Fiber length	(3) FOV internal requirement	Long fiber cutting length	Waste fiber material	1	Cutting machine is malfunction (error) 1	Fiber length is manual cross check at first set of cutting	2	2	Risk acceptance	N/A	N/A	1	1	2 2
2.6	Outting Fiber	Mark of color on fiber correctly	(1) Customer's requirement/agreement	Wrong marking color	Wrong product structure	2	Use wrong marking pen color 1	- Control sequence of use marking pen following PS by jig - Display the color on LCD monitor - Verification by sample of first set each cutting Lot - Detect at next process (Elons, SUS, Port)	2	4	Risk acceptance	N/A	N/A	2	1	2 4
2.7	Cutting Fiber	Mark of color on fiber correctly	(1) Customer's requirement/agreement	Wrong marking position	Wrong product structure		Identification marking location is incorrect	Control position of marking by fixture. Config each marking step by cutting program following PS for operation easily.	2	4	Risk acceptance	N/A	N/A	2	1	2 4
2.8	Cutting Fiber	Fiber clean	(3) FOV internal requirement	Exhaust function is not actived (Dust collector machine turn OFF) during fiber blowing	Contamination inside Coupler body	2	Operator accidentally turned off the machine	Verify the operational status of a dust collector machine using a daily check sheet. Cover the power button of the dust collector to prevent accidental shutdown of the machine. Add a function to control the dust collector for turning it on or off.	1	2	Risk acceptance	N/A	N/A	2	1	1 2
2.9	Outting Fiber	Fiber clean	(3) FOV internal requirement	Compresses Air is lower than specification	Contamination inside Coupler body	2	Source Compresses Air is weak 1	Compresses Air is controlled by daily checksheet	1	2	Risk acceptance	N/A	N/A	2	1	1 2
2.10	Outting Fiber	No fiber damaged	(3) FOV internal requirement	Compresses Air is higher than specification	Fiber bending or twisting	2	Source Compresses Air is strong 1	Compresses Air is controlled by daily checksheet	1	2	Risk acceptance	N/A	N/A	2	1	1 2

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2.11	Cutting Fiber	Particle level near fiber blowing process in specification	(3) FOV internal requirement	Contamination leakage out from Dust collector box	Contamination is easy to attach back to product under operating		The filter of Dust Collector is not cleaned periodically	1	Clean the filter of Dust collector every 3 month by PTE	2	4	Risk acceptance	N/A	N/A 2	1	. 2	4
2.12	Cutting Fiber	Particle level near fiber blowing process in specification	(3) FOV internal requirement	Contamination leakage out from Dust collector box		, (Contamination stick to the blowing Box and fiber trav	2	Clean blowing box and fiber tray daily as per checksheet	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
3.1	Fiber heating	Heating temperature in specification	(1) Customer's requirement/agreement	- Heat temperature is lower limited			Wrong setting on machine	1	- Daily verification setting and actual temperature Instruction to OP observe the display of heat temperature each usage time as JBS.	1	2	Risk acceptance	N/A	N/A 2	1	1	2
3.2	Fiber heating	Heating temperature in specification	(1) Customer's requirement/agreement	- Heat temperature is lower limited	Failed optical specification: Excess Loss	2 1	Machine if malfunction	1	- Daily verification setting and actual temperature by calibed thermo sensor	1	2	Risk acceptance	N/A	N/A 2	1	1 1	2
3.3	Fiber heating	Heating temperature in specification	(1) Customer's requirement/agreement	- Heat temperature is higher limited	Failed optical specification: Excess Loss	2	Wrong setting on machine	1	- Daily verification setting and actual temperature Instruction to OP observe the display of heat temperature each usage time as JBS.	1	2	Risk acceptance	N/A	N/A 2	1	1	2
3.4	Fiber heating	Heating temperature in specification	(1) Customer's requirement/agreement	- Heat temperature is higher limited	Failed optical specification: Excess Loss	2 1	Machine if malfunction	1	- Daily verification setting and actual temperature by calibed thermo sensor	1	2	Risk acceptance	N/A	N/A 2	1	1 1	2
3.5	Fiber heating	Enough heating time	(1) Customer's requirement/agreement	Heating time is short	Failed optical specification: Excess Loss	2 (Operator do not follow requirement	2	Training OP following JBS Using verified timer to control the heating time	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
3.6	Fiber heating	Enough heating time	(1) Customer's requirement/agreement	Heating time is long	Failed optical specification: Excess Loss	2 (Operator do not follow requirement	2	1. Training OP following JBS 2. Using verified timer to control the heating time	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
3.7	Fiber heating	Enough cooling time	(1) Customer's requirement/agreement	Fiber may bending	Failed optical specification: Excess Loss		Recorded wrong completing time of heating	1	Training Operator following JBS and usage electronics clock to identify timing	2	4	Risk acceptance	N/A	N/A 2	1	1 2	4
3.8	Fiber heating	Enough cooling time	(1) Customer's requirement/agreement	Fiber may bending	Failed optical specification: Excess Loss	2	Do the coat removing before acceptance time	2	Training Operator following JBS to re-confirm completing of heating	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
4.1	Fiber preparation	Stripping bare fiber length in specification	(3) FOV internal requirement	Short Stripping Length	Failed optical specification: Coupling Ratio	3 1	Using wrong coating tool type (for required length)	1	Make label identification function of each tool Verification fiber length before input at Prooftest and record by checksheet	2	6	Risk acceptance	N/A	N/A 3	1	1 2	6
4.2	Fiber preparation	Stripping bare fiber length in specification	(3) FOV internal requirement	Short Stripping Length	Failed optical specification: Coupling Ratio		Wrong setup of stripping length on tool (mis-match with label indication)	1	Do verification stripping length of tool daily before use.	2	6	Risk acceptance	N/A	N/A 3	1	1 2	6
4.3	Fiber preparation	Stripping bare fiber length in specification	(3) FOV internal requirement	Long Stripping Length	Failed optical specification: Coupling Ratio	3 1	Using wrong coating tool type (for required length)	1	Make label identification function of each tool Verification fiber length before input at Prooftest and record by checksheet	2	6	Risk acceptance	N/A	N/A 3	1	1 2	6
4.4	Fiber preparation	Stripping bare fiber length in specification	(3) FOV internal requirement	Long Stripping Length	Failed optical specification: Coupling Ratio		Wrong setup of stripping length on tool (mis-match with label indication)	1	Do verification stripping length of tool daily before use.	2	6	Risk acceptance	N/A	N/A 3	1	2	6
4.5	Fiber preparation	Stripping fiber at red marking dot position	(3) FOV internal requirement	Stripping at wrong position	FOV: High reject % & FI cost	2	Setting fiber on coat removing tool not correct	2	Control the position of red marking dot by template on tool. Training operator following JBS	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
4.6	Fiber preparation	Enough Swelling time	(3) FOV internal requirement	Long Swelling time	Fiber broken inside coupler	2 1	Do not follow process requirement	2	Training Operator following JBS Use timer to control swelling time and nnotify to operator for starting cleaning operation	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
4.7	Fiber preparation	Enough Swelling time	(3) FOV internal requirement	Short Swelling time	Increase rework time for Fiber preparation	2 1	Do not follow process requirement	2	Training Operator following JBS Use timer to control swelling time and nnotify to operator for starting cleaning operation	2	8	Risk acceptance	N/A	N/A 2	2	2 2	8
4.8	Fiber preparation	No UV remain in elongation area	(1) Customer's requirement/agreement	Big UV fiber remain/Contamination	ncrease rework time for Fiber preparation	3 1	Do not clean bare fiber well	1	Training cleaning operation follow JBS Do inspection bare fiber appearance at Prooftest process	1	3	Risk acceptance	N/A	N/A 3	1	. 1	3
4.9	Fiber preparation	No UV remain in elongation area	(1) Customer's requirement/agreement	Small UV fiber remain/Contamination	Failed optical specification: Excess Loss	3 1	Do not clean bare fiber well	1	Training cleaning operation follow JBS Do inspection bare fiber appearance at Prooftest process	1	3	Risk acceptance	N/A	N/A 3	1	. 1	3
4.10	Fiber preparation	No UV remain in elongation area	(1) Customer's requirement/agreement	Small UV fiber remain/Contamination	High reject% at Appearance After Elongation	3 1	Do not clean bare fiber well	1	Training cleaning operation follow JBS Do inspection bare fiber appearance at Prooftest process	1	3	Risk acceptance	N/A	N/A 3	1	1 1	3
4.11	Fiber preparation	Bare fiber is strong (high breaking force)	(1) Customer's requirement/agreement	Bare fiber is damaged strongly	Fiber broken inside coupler	4 1	Wrong setup of blade position on tool	1	1. Do the verification after change/adjust the blade before apply to process	2	8	Risk acceptance	N/A	N/A 4	1	1 2	8
4.12	Fiber preparation	Bare fiber is strong (high breaking force)	(1) Customer's requirement/agreement	Bare fiber is damaged strongly	Fiber broken inside coupler	3 (Careless in bare fiber handling	2	1. Training Operator following JBS 2. Control 2S in process 3. Use clean paper/dusper and keep in in clean storage condition 4. Replace new blade periodically 5. Control stripper by weibull chart of broken test for all operators and coat removing tools.	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
4.13	Fiber preparation	Fiber passed Proof testing	(1) Customer's requirement/agreement	Wrong screening result	Fiber broken inside coupler	3 1	Machine if malfunction	2	Do verification of Prooftest machine daily before usage	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
4.14	Fiber preparation	Do not touch to bare fiber	(2) Common standard	Bare fiber was hit	Fiber broken inside coupler	3 (Careless in bare fiber handling	2	Training Operator following JBS Control 2S in process	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
4.15	Fiber preparation	Do not touch to bare fiber	(2) Common standard	Bare fiber was hit	Failed optical specification: Excess Loss		Operating working space is limited cause by machine design	2	Training Operator following JBS Remove recoater part (for model FSR-07)	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
4.16	Fiber preparation	Do not touch to bare fiber	(2) Common standard	Bare fiber was hit	Fiber broken inside coupler		Operating working space is limited cause by machine design	2	Training Operator following JBS	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	! 2	12
4.17	Fiber preparation	UV fiber coating is not damaged	(2) Common standard	Fiber UV coating is damaged at clamp postion	Fiber damaged	3 t	Clamp's design of machine: hold fiber tightly with solid metal clamp (hard material can make fiber damaged)	2	Training Operator following JBS Visual inspection next process Remove solid metal part on clamp (for model FSR-07)	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
5.1	Fuse & Elongati	Correct gas flow (H2, O2)	(1) Customer's requirement/agreement	Lack of Gas flow	Failed optical specification: Coupling Ratio	3 1	Running out of gas cylinder	2	Daily checking gas at PTE Daily checking gas in Counler Workshop	1	6	Risk acceptance	N/A	N/A 3	2	2 1	6
5.2	Fuse & Elongati	Correct gas flow (H2, O2)	(1) Customer's requirement/agreement	Lack of Gas flow	Failed optical specification: Coupling Ratio	3 (Gas box is closed	2	Daily checking before running Make rule at cutting process to storage 2 fibers in tray seperately in case follow to	1	6	Risk acceptance	N/A	N/A 3	- 2	1	6
5.3	Fuse & Elongati	Correct fiber port position	(1) Customer's requirement/agreement	Wrong fiber port side (P1-P3, P2-P4)	Wrong product structure	4 1	Pick wrong port	2	2. Make clear fiber port position in tay. 3. Operator must check the pre-coloring on fiber follow to the process specification after setting fiber on machine. 4. Detect at SIS fanckine Measurement Port Colorine Ann OC.	1	8	Risk acceptance	N/A	N/A 4	2	! 1	8
5.4	Fuse & Elongati	Correct fiber port position	(1) Customer's requirement/agreement	Wrong fiber port side (P1-P3, P2-P4)	Wrong product structure	4 1	Fiber swap when re-twist	2	Operator must check the pre-coloring on fiber follow to the process specification after re-setting fiber on machine. Detect at SUS packing, Measurement, Port Coloring, App QC	1	8	Risk acceptance	N/A	N/A 4	2	! 1	8
5.5	Fuse & Elongati	Fiber twisting in symmetric shape	(1) Customer's requirement/agreement	Twisting point is not center	Failed optical specification: Coupling Ratio	3	Operator jugde fiber position after twisting is not correct.	2	Use twist unit to support fiber setting correctly and observe by camera for adjustment. Training OP follow JBS to adjust and judgement.	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
5.6	Fuse & Elongati	Fiber twisting in symmetric shape	(1) Customer's requirement/agreement	Twisting point is not center	Failed optical specification: Coupling Ratio	3	Twist unit/fixture is not good	2	Monthly checking Detect by Camera	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
5.7	Fuse & Elongati	Fiber twisting in symmetric shape	(1) Customer's requirement/agreement	Fiber setting is not balance between	Failed optical/ structure specification	3	Not measure position of stripping point	2	Use ruler to control position of stripping point from clamp both sides Check by Camera	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A 3	2	2 2	12
5.8	Fuse & Elongati	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification	3 (Contamination on fiber	1	1. Training Operator following JBS 2. Control 2S in process. 3. Do not keep stripped fiber outside long time (preparea new fiber just in time)	2	6	Risk acceptance	N/A	N/A 3	1	1 2	6
5.9	Fuse & Elongati	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification	3 -	Using un-approved condition	1	Control of approved elongation condition by program Elongation condition setting by engineer Check and judge optical result by program Apply provisional inspection if any doubted Verify by reliability test report and get approval before mass production Prevent at Label Packing program	2	6	Risk acceptance	N/A	N/A 3	1	1 2	6

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5.10 Fuse & Elon	ongation	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification	3	- Use modified ondition over limited 2	Verify actual manufacturing condition with approved condition by program 100% Check and judge optical result by program Apply provisional inspection if any doubted	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
5.11 Fuse & Elou	ongation	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification		Movement Operation of Clamp, Torch, Oxygen	Monthly checking by PRE Yearly maintenance by PTE Detect by the picture of product	1	6	Risk acceptance	N/A	N/A	3	2	1	6
5.12 Fuse & Elon	ongation	Clen is in specification	(1) Customer's requirement/agreement	Clen out of spec	Wrong product structure	3	The condition of elongation process was unsuitable	Control Clen by program automatically. Monitoring elongation defect% daily and feedback quickly to adjust elongation condition	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	4	1	12
5.13 Fuse & Elon	ongation	Product pass screening proof test	(1) Customer's requirement/agreement	Failed proof test 250gr	Fiber broken inside coupler	4	The condition of elongation process was unsuitable	Do broken test sample (500gr) for each condition on machine actively and make monitoring chart. Sampling drop test weekly for manufacturing elongation condition	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
5.14 Fuse & Elon	ongation	Product pass screening proof test	(1) Customer's requirement/agreement	Failed proof test 250gr	Fiber broken inside coupler		Mechanical was not good Tension loadcell and actual tension has high deviation out of specification	Daily check tension Do broken test sample (500gr) for each condition on machine actively and make monitoring chart.	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
5.15 Fuse & Elor	ongation	Product pass screening proof test	(1) Customer's requirement/agreement	Failed proof test 250gr	Fiber broken inside coupler		Movement Operation of Clamp not good	Monthly checking by PRE Yearly maintenance by PTE	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
5.16 Fuse & Elor	ongation	Product pass screening proof test	(1) Customer's requirement/agreement	Failed proof test 250gr	Fiber broken inside coupler	4	The shape after Elongation was asymmetric	Training Operator judge the shape at twisting step Training Operator judge the shape after Elong	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
5.17 Fuse & Elor	ongation	Product pass screening proof test	(1) Customer's requirement/agreement	Failed proof test 250gr	Fiber broken inside coupler	4	Careless in bare fiber handling	Training Operator following JBS Control 2S in process	1	8	Risk acceptance	N/A	N/A	4	2	1	8
5.18 Fuse & Elor	ongation	Fiber shape after elongation	(1) Customer's requirement/agreement	Bad shape after Elongation	Fiber broken inside coupler	4	The twist shape was asymmetric	Training Operator judge the shape after Elong Screening	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3	12
5.19 Fuse & Elon	ongation	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification	3	The Auto Stopping setting condition is not suitable after manufacturing condition change (Change lot fiber, change gas lot)	2. Screenin? 1. Program alarm when changing new lot fiber for recognize to monitoring the trend after apply new lot fiber. 2. Allow to turn off Auto Mode when the trend is change. 3. PTE inform when changing gas lot. 4. Monitor process yield% in working shift to feedback quickly for adjustment elongation condition.	1	6	Risk acceptance	N/A	N/A	3	2	1	6
6.1 Neoceram p	packing	Use resin within expiration	(2) Common standard	Use resin over expired date	FOV: High reject % & FI cost	3	Do not check expired date before usage	Training Operator following JBS Control expired date by label and program/ ECS at process	2	6	Risk acceptance	N/A	N/A	3	1	2	6
6.2 Neoceram p	packing	Use correct material as required follow ID	(2) Common standard	Use not follow ID	Wrong traceability	2	Mixing material in working place	Identify material by label and control by ID# Keep good 2S and input material one by one ID, Lot as common rules Control by ECS setting and BOM of each ID Identify material by label and control by ID#	2	4	Risk acceptance	N/A	N/A	2	1	2	4
6.3 Neoceram p	packing	Use correct material type	(1) Customer's requirement/agreement	Use wrong material type	Wrong product structure	3	Mixing material in working place	2. Keep good 2S and input material one by one ID, Lot as common rules 3. Control by ECS setting and BOM of each ID	2	6	Risk acceptance	N/A	N/A	3	1	2	6
6.4 Neoceram p	packing	No contamination(neoceram/tube)	(1) Customer's requirement/agreement	Contamination on material	Fiber broken inside coupler	4	Contamination copied from Operator to material when handling	Training Operator following JBS Control 2S in process Do air blow cleaning before usage Apply ionize cleaning final at working area Apply soinze cleaning final at working area Appearance inspection after assembly	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
6.5 Neoceram p	packing	No contamination (neoceram/tube)	(1) Customer's requirement/agreement	Contamination on material	Fiber broken inside coupler	4	Contamination around neoceram attached FEP tube and move to Elongation zone during packing	Training Operator following JBS (operator handle carefuly to avoid FEP tube rotated). Visual inspection next process	1	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	3	1	12
6.6 Neoceram p	packing	Fiber was set inside neoceram correctly	(1) Customer's requirement/agreement	Wrong alignment horizontal	Fiber broken inside coupler	4	Fiber was adjusted not enough	Training Operator following JBS Measure product structure after assembly	1	8	Risk acceptance	N/A	N/A	4	2	1	8
6.7 Neoceram p	packing	Fiber was set inside neoceram correctly	(1) Customer's requirement/agreement	Wrong alignment vertical	Fiber broken inside coupler	4	Do not adjust position of neoceram correctly	Training Operator following JBS Camera support to check position Use program to support for moving of packing stage	1	8	Risk acceptance	N/A	N/A	4	2	1	8
6.8 Neoceram p	packing	Tension fiber in spec	(1) Customer's requirement/agreement	Low or high pulling force	Fiber broken inside coupler	4	Touch to fiber during adjustment to neoceram	Training Operator following JBS Support to control tension by proram and spec setting by engineer	1	8	Risk acceptance	N/A	N/A	4	2	1	8
6.9 Neoceram p	packing	Tension fiber in spec	(1) Customer's requirement/agreement	Low or high pulling force	Fiber broken inside coupler	4	Touch the syringe to the bare fiber	Training Operator following JBS Support to control tension by proram and spec setting by engineer	1	8	Risk acceptance	N/A	N/A	4	2	1	8
6.10 Neoceram p	packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	Wrong UV structure	Fixing force of fiber on Neoceram is not enough	4	Lack of UV resin amount on UV resin Tube	 Training Operator following JBS to confirm the UV resin structure after applying auto resin Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount Allow to apply resin it more time if the UV resin structure is not good Amoerames inspection after assembly 	1	4	Risk acceptance	N/A	N/A	4	1	1	4
6.11 Neoceram p	packing	Apply resin on correct position and amount on product	(1) Customer's requirement/agreement	Wrong UV structure	Fiber broken inside coupler	3	Lack of UV resin amount on UV resin Tube	1. Training Operator following JBS to confirm the UV resin structure after applying auto resin 2. Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount 3. Allow to apply resin I more time if the UV resin structure is not good 4. Anocarance inspection after assembly	1	6	Risk acceptance	N/A	N/A	3	2	1	6
6.12 Neoceram p	packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	Wrong UV structure	Fiber broken inside coupler	4	(Small) Surplus resin on product	I. Training Operator following JBS to confirm the UV resin structure after applying auto resin 2. Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount 3. Allow to apply resin I more time if the UV resin structure is not good 4. Anoesrance inspection after assembly 1. Training Operator following JBS to confirm the UV resin structure after applying	1	4	Risk acceptance	N/A	N/A	4	1	1	4
6.13 Neoceram p	packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	Wrong UV structure	Do not meet requirement of UV resin position/structure	3	(Small) Surplus resin on product	2. Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount 3. Allow to apply resin I more time if the UV resin structure is not good 4. Annearance inspection after assembly 1. Training Operator following JBS to confirm the UV resin structure after applying	1	6	Risk acceptance	N/A	N/A	3	2	1	6
6.14 Neoceram p	packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	Wrong UV structure	Cannot assemble 2 couplers at assembly process	3	(Big) Surplus resin on product	1. Training Operation borowing 2520 of the 2520 period and resist and calculated and a specific properties and the configuration of the 2520 period and configuration amount 3. Allow to apply resin I more time if the UV resin structure is not good 4. Amountmust insection after assembly	1	6	Risk acceptance	N/A	N/A	3	2	1	6

Item numb er	Process	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P Final Decision N	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	P P P P P P P P P P P P P P P P P P P
6.15	Neoceram packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	UV resin amount is shortage	Bare fiber may not keep in stable tension	3	Nozzle is stuck by resin 1	Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount Appearance inspection after assembly Apply daily check sheet	1	3 Risk acceptance	N/A	N/A	3	1	1 3
6.16	Neoceram packing	Apply resin on correct position and amount on product"	(1) Customer's requirement/agreement	UV resin amount is shortage	Fiber broken inside coupler	3	Nozzle is stuck by resin 2	Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount Appearance inspection after assembly Apply daily check sheet	1	6 Risk acceptance	N/A	N/A	3	2	1 6
6.17	Neoceram packing	UV resin does not have impurity	(3) FOV internal requirement	UV resin with water	Fiber broken inside coupler	3	Dispenser with pressure pipe have water	Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount Appearance inspection after assembly	1	3 Risk acceptance	N/A	N/A	3	1	1 3
6.18	Neoceram packing	UV resin does not have impurity	(3) FOV internal requirement	UV resin with water	UV peel off	2	Dispenser with pressure pipe have water 2	Apply blank shot and clean the nozzle before applying resin on Neoceram to confirm resin amount Appearance inspection after assembly	1	4 Risk acceptance	N/A	N/A	2	2	1 4
6.19	Neoceram packing	Apply UV resin correctly as structure required	(1) Customer's requirement/agreement	Wrong control parameter	Wrong product structure	3	Do not control position/length of resin well 2	Training Operator following JBS Appearance inspection after assembly	2	Risk acceptance but need monitoring th result of risk	N/A	N/A	3	2	2 12
6.20	Neoceram packing	UV-8794A resin was cured completely UV-8794A resin was cured	(1) Customer's requirement/agreement	UV intensity is out of specification range	Fiber broken inside coupler	4	Wrong UV power setting 1	Do verification of UV intensity daily before usage and adjust if any	2	8 Risk acceptance	N/A		4	1	2 8
6.21	Neoceram packing	completely	(1) Customer's requirement/agreement	Curing time is not enough	Fiber broken inside coupler	4	Wrong setting of curing time 1	Do verification of UV intensity daily before usage	2	8 Risk acceptance	N/A	N/A	4	1	2 8
6.22	Neoceram packing	Optical characteristic is met spec of control.	(1) Customer's requirement/agreement	Optical characteristic is out of spec	Failed optical specification	3	Touch the syringe to the bare fiber 2	Check and judge optical result by program Apply provisional inspection if any doubted	2	Risk acceptance but need monitoring th result of risk	N/A	N/A	3	2	2 12
6.23	Neoceram packing	Optical characteristic is met spec of control.	(3) FOV internal requirement	Optical characteristic is out of spec	Failed optical specification	3	- Using un-approved condition 1	Control of approved elongation condition by program Elongation condition setting by engineer Check and judge optical result by program Apply provisional inspection if any doubted Verify by reliability test report and get approval before mass production	2	6 Risk acceptance	N/A	N/A	3	1	2 6
6.24	Neoceram packing	Cut-off the correct port	(1) Customer's requirement/agreement	Cut-off the wrong port	FOV: High reject % & FI cost	3	Don't confirm the port position 1	Training follow JBS/PS for cut port (Short length of fiber) Detect by Optical measurement (IL, RL) by measurement process and check structure at Port Coloring, App QC	2	6 Risk acceptance	N/A	N/A	3	1	2 6
6.25	Neoceram packing	No contamination	(3) FOV internal requirement	Contamination inside Coupler	Reduce Product Reliability	4	Contamination when cut-off the fiber 3	Apply blow the glove by air gun after cut off the fiber	1	Risk acceptance but need monitoring th result of risk	P N/A	N/A	4	3	1 12
6.26	Neoceram packing	Not pulling elongation region	(3) FOV internal requirement	Add pulling force to elongation fiber	Probability of fiber breaking will increase	4	Pulling fiber during fiber cutting 1	Fiber is cut after UV curing. Fiber already fixed by UV resin and clamp.	2	8 Risk acceptance	N/A	N/A	4	1	2 8
6.27	Neoceram packing	No contamination	(3) FOV internal requirement	Contamination inside clongation area	Reduce Product Reliability	4	Picce of glass caused by fiber cutting jumps into elongation area	Keep fiber away ~ 100mm from Neoceram during cutting Wear glove when cut-off the fiber Appearance checking by next process App After Elongation	2	8 Risk acceptance	N/A	N/A	4	1	2 8
6.28	Neoceram packing	No coating damage	(3) FOV internal requirement	Add damage to coating of other fiber	Reduce Product Reliability	4	Carcless while cutting Fiber 1	Keep fiber away – 100mm from Neoceram during cutting Appearance checking by next process App After Elongation, SUS packing, Port Coloring and QC Inspection	2	8 Risk acceptance	N/A	N/A	4	1	2 8
7.1	Assembly 2in1 coupler	Correct coupler type	(1) Customer's requirement/agreement	Wrong product structure	Optical of module coupler was failed	5	Using wrong single coupler type for assembly	Make rule only I product type in assembly area Using software to validate product type of single coupler (follow MFG configuration)	1	5 Risk acceptance	N/A	N/A	5	1	1 5
7.2	Assembly 2in1 coupler	Correct coupler type	(1) Customer's requirement/agreement	Wrong product structure	Do not meet requirement- of product structue or optical specification	3	Pick up wrong product type 1	Make rule only 1 product type in assembly area Using software to validate product type of single coupler (follow MFG configuration)	1	3 Risk acceptance	N/A	N/A	3	1	1 3
7.3	Assembly 2in1 coupler	No contamination	(1) Customer's requirement/agreement	Free contamination insider Neoceram (coupler body)	Fiber broken inside coupler	4	Contamination touch in Elongated area during manufacturing	Inspection before assembly by Hozan camera Instruct in IBS Check at Appearance after Elongation process	2	8 Risk acceptance	N/A	N/A	4	1	2 8
7.4	Assembly 2in1 coupler	No contamination	(1) Customer's requirement/agreement	Free contamination insider Neoceram (coupler body)	Do not meet requirement of appearance	3	Contamination touch in Elongated area during manufacturing 2	Inspection before assembly by Hozan camera Instruct in JBS	2	Risk acceptance but need monitoring th result of risk	N/A	N/A	3	2	2 12

Item numb er	rocess Requ	uirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Det	R P N 5
7.5 Assembly coupler	y 2in1 Fiber i	no broken	(1) Customer's requirement/agreement	No output power	Can not use in Coupler module	5	Tool add resin touch bare fiber	1.Training Operator for attach resin on Neoceram in JBS. & appearance check after a sasembly 2. Can detect in measurement	1	15	Risk acceptance but need monitoring the result of risk	N/A	N/A	5	3	1	15
7.6 Assembly coupler	y 2in1 Fiber i	no broken	(1) Customer's requirement/agreement	No output power	Can not use in Coupler module	5	Alignment was deviated when combine	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Can detect in measurement	1	15	Risk acceptance but need monitoring the result of risk	N/A	N/A	5	3	1	15
7.7 Assembly coupler	y 2in1 Fiber	no broken	(1) Customer's requirement/agreement	No output power	Fiber broken inside coupler	5	Tool add resin touch bare fiber	Training Operator for attach resin on Neoceram in JBS & appearance check after assembly	1	15	Risk acceptance but need monitoring the result of risk	N/A	N/A	5	3	1	15
7.8 Assembly coupler	y 2in1 Fiber	no broken	(1) Customer's requirement/agreement	No output power	Fiber broken inside coupler	5	Alignment was deviated when combine	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Daily checking for fixture.	1	15	Risk acceptance but need monitoring the result of risk	N/A	N/A	5	3	1	15
7.9 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram is not concentricity (deviated by horizontal side)	Bare fiber damaged	4	Fixture was deviated horizontal	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Daily checking for fixture	1	8	Risk acceptance	N/A	N/A	4	2	1	8
7.10 Assembly coupler	y 2in1 Aligm	nment correctly	(3) FOV internal requirement	Neoceram is not concentricity (deviated by horizontal side)	Bare fiber damaged	4	Not pay attention during assembly 2 coupler together	Training Operator for attach resin on Neoceram in JBS & appearance check after assembly	1	8	Risk acceptance	N/A	N/A	4	2	1	8
7.11 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram is not concentricity (deviated by horizontal side)	Do not meet requirement of product appearance or diameter	3	Fixture was deviated horizontal	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Daily checking for fixture	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.12 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram is not concentricity (deviated by horizontal side)	Do not meet requirement of product appearance or diameter	3	Not pay attention during assembly 2 coupler together	Training Operator for attach resin on Neoceram in JBS & appearance check after assembly	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.13 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram's head is shifted along (deviated by vertical side)	Fiber broken inside coupler	5	Fixture was deviated vertical	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Duily checking for fixture	1	10	Risk acceptance	N/A	N/A	5	2	1	10
7.14 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram's head is shifted along (deviated by vertical side)	Risk for Crack Neoceram	4	Fixture was deviated vertical	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Daily checking for fixture	1	8	Risk acceptance	N/A	N/A	4	2	1	8
7.15 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Neoceram's head is shifted along (deviated by vertical side)	For FOV: Do not meet requirement of product length to assembly inside SUS pipe	3	Fixture was deviated vertical	1.Training Operator for attach resin on Neoceram in JBS & appearance check after assembly 2. Using fixture to control alignment. 3. Daily checking for fixture	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.16 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Swap coupler A to B	Calculate coupler module is not correct	4	Marking purple on coupler A	2 1. Identify coupler A, B by letter/mark on FOV serial label 2. Re-confirm by order of A,B at SUS packing	1	8	Risk acceptance	N/A	N/A	4	2	1	8
7.17 Assembly coupler	y 2in1 Aligni	nment correctly	(3) FOV internal requirement	Swap coupler A to B	Do not meet requirement of coloring	3	Marking purple on coupler A	2 1. Identify coupler A, B by letter/mark on FOV serial label 2. Re-confirm by order of A,B at SUS packing	1	6	Risk acceptance	N/A	N/A	3	2	1	6

Item numb er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence		R P N 5
7.18 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Can not recognize A,B coupler	3	Mark on both 2 coupler A,B	2 1. Training purple mark on coupler B only 2. Can detect in next processes	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.19 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Can not recognize A,B coupler	3	Spread purple mark from coupler B to coupler A	2 1. Cleaning purple mark on coupler B 2. Can detect in next processes	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.20 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Take time to re-check A _i B	2	Mark on both 2 coupler A ₄ B	2 1. Training purple mark on coupler B only 2. Can detect in next processes	1	4	Risk acceptance	N/A	N/A	2	2	1	4
7.21 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Take time to re-check A _s B	2	Spread purple mark from coupler B to coupler A	2 1. Cleaning purple mark on coupler B 2. Can detect in next processes	1	4	Risk acceptance	N/A	N/A	2	2	1	4
7.22 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Can not recognize A,B coupler	3	Do not mark puple on both A or B coupler	Training for assembly process with purple mark on B coupler Can detect in next processes such as App after Elong, App after 24H, loss, port, Final Appearance.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.23 Assembly 2in1 coupler	Alignment correctly	(3) FOV internal requirement	Could not identify coupler A & B	Take time to re-check A,B	2	Do not mark puple on both A or B coupler	Training for assembly process with purple mark on B coupler Can detect in next processes such as App after Elong, App after 24H, loss, port, Final App	1	2	Risk acceptance	N/A	N/A	2	1	1	2
7.24 Assembly 2in1 coupler	Purple mark in correct position on B coupler	(1) Customer's requirement/agreement	Purple mark was incorrect position (Near Neoceram)	For Customer: Risk for fiber damage	3	Operator did purple mark is too near Neoceram	1. Do purple mark follow template 2. Re-check position at port coloring, final Appearance.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.25 Assembly 2in1 coupler	Purple mark in correct position on B coupler	(1) Customer's requirement/agreement	Purple mark was incorrect position (Near Neoceram)	For FOV: Purple mark can overlap with other mark at port coloring> Take to re-work	2	Operator did purple mark is too near Neoceram	1. Do purple mark follow template 2. Re-check position at port coloring, final Appearance.	1	2	Risk acceptance	N/A	N/A	2	1	1	2
7.26 Assembly 2in1 coupler	Purple mark in correct position on B coupler	(1) Customer's requirement/agreement	Purple mark was incorrect position (Far away from Neoceram)	For FOV: Purple mark can overlap with other mark at port coloring> Take to re-work	2	Operator did purple mark is far away from Neoceram	1. Do purple mark follow template 2. Re-check position at port coloring, final Appearance.	1	2	Risk acceptance	N/A	N/A	2	1	1	2
7.27 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too long toward Neoceram	For Customer & FOV: Risk for fiber damage	3	Operator did purple mark too long toward Neoceram	1. Do purple mark follow template 2. Re-check length of mark at port coloring, final Appearance.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.28 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too long toward Neoceram	For FOV: Purple mark can overlap with other mark at port coloring> Take to re-work	2	Operator did purple mark too long toward Neoceram	1. Do purple mark follow template 2. Re-cheek length of mark: at port coloring, final Appearance.	1	2	Risk acceptance	N/A	N/A	2	1	1	2
7.29 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too long toward away from Neoceram	For Customer: Purple mark can be overlap with identified port mark	3	Purple mark can spread when cleaning	Do purple mark follow template Re-check length of mark at port coloring, final Appearance. Instruct cleaning operation in JBS.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.30 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too long toward away from Neoceram	For Customer: Purple mark can be overlap with identified port mark	3	Operator did purple mark too long toward away from Neoceram	1. Do purple mark follow template 2. Re-check length of mark at port coloring, final Appearance.	1	3	Risk acceptance	N/A	N/A	3	1	1	3

Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Dete	R P N 5
7.31 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too long toward away from Neoceram	For FOV: Purple mark can overlap with other mark at port coloring> Take to re-work	2	Operator did purple mark too long toward away from Neoceram	1. Do purple mark follow template 2. Re-check length of mark at port coloring, final Appearance.	1	2	Risk acceptance	N/A	N/A	2	1	1	2
7.32 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too short	For Cusstomer: Difficult to recognoze A,B coupler	3	Operator did purple mark too short	1. Do purple mark follow template 2. Re-check length of mark at port coloring, final Appearance.	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.33 Assembly 2in1 coupler	Purple mark enough length on B coupler	(1) Customer's requirement/agreement	Purple mark was too short	For FOV: Take time to re-work	2	Operator did purple mark too short	1. Do purple mark follow template 2. Re-check length of mark: at port coloring, final Appearance.	2	8	Risk acceptance	N/A	N/A	2	2	2	8
7.34 Assembly 2in1 coupler	Using UV 8479A resin within expiration	(2) Common standard	Input resin after expiration date	For Customer: Strength of UV resin may decreased	3	Operator use resin over expired date	1. Control expired date by program 2. Instruct in JBS how to check and use resin Lot.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.35 Assembly 2in1 coupler	Using UV 8479A resin within expiration	(2) Common standard	Input resin after expiration date	For FOV: Do not meet requirement for control of resin	3	Operator use resin over expired date	1. Control expired date by program 2. Instruct in JBS how to check and use resin Lot.	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.36 Assembly 2in1 coupler	Using UV 8479A resin type	(1) Customer's requirement/agreement	Using UV-7 resin type	For Customer: Quality of product was not guaranteed	4	Use UV-7 resin at 2in1 assembly	Declare resin type by program before using In assembly process, must allowed only UV 8479A resin type and recognize by label on resin syringe Can detect by appearance after assembly, appearance after 24Hrs	1	8	Risk acceptance	N/A	N/A	4	2	1	8
7.37 Assembly 2in1 coupler	Using UV 8479A resin type	(1) Customer's requirement/agreement	Using UV-7 resin type	For FOV: do not meet requirement of product structure	3	Use UV-7 resin at 2in1 assembly	Declare resin type by program before using In assembly process, must allowed only UV 8479A resin type and recognize by label on resin syringe Can detect by appearance after assembly, appearance after 24Hrs	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.38 Assembly 2in1 coupler	Resin amount on coupler enough	(1) Customer's requirement/agreement	Lack of UV resin at 2 side of coupler	For Customer: strength of coupler body may decreased	3	OP do not add resin	1. Training insert resin in JBS 2. Appearance checking after assembly	1	3	Risk acceptance	N/A	N/A	3	1	1	3
7.39 Assembly 2in1 coupler	Resin amount on coupler enough	(1) Customer's requirement/agreement	Lack of UV resin at 2 side of coupler	For FOV: do not meet requirement of product structure	3	OP do not add resin	1. Training insert resin in JBS 2. Appearance checking after assembly	3	9	Risk acceptance	N/A	N/A	3	1	3	9
7.40 Assembly 2in1 coupler	Resin amount on coupler enough	(3) FOV internal requirement	Lack off UV resin along wall of Neoceram	For Customer: strength of coupler body may decreased	3	Insert resin to jig was not enough	2 1. Instruct how to insert resin fully to jig in JBS 2. Appearance check after assembly	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.41 Assembly 2in1 coupler	Resin amount on coupler enough	(3) FOV internal requirement	Lack of UV resin along wall of Neoceram	For FOV: do not meet requirement of product structure	3	Insert resin to jig was not enough	2 1. Instruct how to insert resin fully to jig in JBS 2. Appearance check after assembly	1	6	Risk acceptance	N/A	N/A	3	2	1	6
7.42 Assembly 2in1 coupler	Resin amount on coupler enough	(3) FOV internal requirement	Surplus resin on coupler	For Customer: Resin can flow to groove of Neocenam and touch elongated area lead to fiber broken	4	Insert resin to jig too much	I. Instruct how to insert resin fully to jig in JBS Appearance check after assembly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
7.43 Assembly 2in1 coupler	Resin amount on coupler enough	(3) FOV internal requirement	Surplus resin on coupler	For FOV: do not meet requirement of product structure	3	Insert resin to jig too much	1. Instruct how to insert resin fully to jig in JBS 2. Appearance check after assembly	2	6	Risk acceptance	N/A	N/A	3	1	2	6

Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Осситепсе		R P N 5
7.44 Assembly 2in1 coupler	Enough UV curing times	(3) FOV internal requirement	Resin was not cured	For Customer Resin can flow to groove of Neoceram and touch elongated area lead to fiber broken	4	UV curing times was not enough	I. Instruct curing times in JBS Appearance check after assembly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
7.45 Assembly 2in1 coupler	Enough UV curing times	(3) FOV internal requirement	Resin was not cured	FOV: High reject % & FI cost	3	UV curing times was not enough	I. Instruct curing times in JBS Appearance check after assembly	2	6	Risk acceptance	N/A	N/A	3	1	2	6
7.46 Assembly 2in1 coupler	Curing cover full on coupler body	(3) FOV internal requirement	Resin was not cured	For Customer: Resin can flow to groove of Neoceram and touch elongated area lead to fiber broken	4	Curing not fully on coupler 2in1	I. Instruct curing operation in JBS Appearance check after assembly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
7.47 Assembly 2in1 coupler	Curing cover full on coupler body	(3) FOV internal requirement	Resin was not cured	FOV: High reject % & FI cost	3	Curing not fully on coupler 2in1	I. Instruct curing operation in JBS Appearance check after assembly	2	6	Risk acceptance	N/A	N/A	3	1	2	6
7.48 Assembly 2in1 coupler	Correct UV intensity	(3) FOV internal requirement	Resin was not cured	For Customer: Resin can flow to groove of Neoceram and touch elongated area lead to fiber broken	4	UV intensity was not enough	Define UV intensity in machine Check sheet Appearance check after assembly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
7.49 Assembly 2in1 coupler	Correct UV intensity	(3) FOV internal requirement	Resin was not cured	FOV: High reject % & FI cost	3	UV intensity was not enough	1. Define UV intensity in machine Check sheet 2. Appearance check after assembly	2	6	Risk acceptance	N/A	N/A	3	1	2	6
8.1 Tube Heating	FEP tube was shrink to fix tighten Neoceram	(1) Customer's requirement/agreement	Can not fix 2 single Coupler	FOV: High reject % & FI cost	3	Temperature was setting too low	1 Do verification of Heater daily before usage and adjust if any	2	6	Risk acceptance	N/A	N/A	3	1	2	6
8.2 Tube Heating	Fiber UV coating is not damaged	(2) Common standard	Fiber UV coating is damaged at top of Neoceram	FOV: High reject % & FI cost	3	Careless operation: hold fiber at neoceram top tightly	Training Operator following JBS (operator handle carefuly to keep fiber straight from coupler body)	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
8.3 Tube Heating	Bare fiber is strong (high breaking force)	(1) Customer's requirement/agreement	Bare fiber is damaged strongly inside product	Fiber broken inside coupler	4	Operators use tweezers not keep product at center zone, tweezer can be move to near bare fiber zone	2. Visual inspection next process 1. Training Operator following JBS 2. Visual inspection next process 1. Measure optical characteristic and RL (sampling) to find product which its fiber was broken 4. Make droptest for each machine and monitoring weekly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
8.4 Tube Heating	Bare fiber is strong (high breaking force)	(1) Customer's requirement/agreement	Bare fiber is damaged strongly inside product	Fiber broken inside coupler	4	Neoceram slip off from tweezers when operator hold product by tweezers not tighly	Training Operator following JBS Visual inspection next process Measure optical characteristic and RL (sampling) to find product which its fiber was broken Make droptest for each machine and monitoring weekly	2	8	Risk acceptance	N/A	N/A	4	1	2	8
8.5 Tube Heating	Bare fiber is strong (high breaking force)	(1) Customer's requirement/agreement	Bare fiber is damaged strongly inside product	Failed Droptest	3	Unstable manufacturing condition	Training Operator following JBS Visual impection next process Measure optical characteristic and RL (sampling) to find product which its fiber was broken Make droptest for each machine and monitoring weekly	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
9.1 Appearance after elongation	UV and expired	(2) Common standard	Use resin over expired date	Decrease product quality in long-term	3	Do not check expired date before usage	1 Training Operator following JBS 2. Control expired date by label and program/ ECS at process	2	6	Risk acceptance	N/A	N/A	3	1	2	6
9.2 Appearance after elongation	Judgement correctly	(1) Customer's requirement/agreement	Judgement wrongly	Decrease product quality in long-term	3	Wrong understanding of requirement	2 1. Training Operator following JBS, Checksheet one by one checking points. 2. Random cross checking by skill members	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
9.3 Appearance after elongation	Judgement correctly	(1) Customer's requirement/agreement	Judgement wrongly	Decrease product quality in long-term	3	Wrong measurement	Training Operator following JBS/ PS, Checksheet one by one checking points. Usage microscope with template to support checking easily	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
9.4 Appearance after elongation	Judgement correctly	(1) Customer's requirement/agreement	Judgement wrongly	Decrease product quality in long-term	3	Wrong data input	Training operators how to input data into a computer using a software Remind operators to double-check their data input before saving	1	6	Risk acceptance	N/A	N/A	3	2	1	6
9.5 Appearance after elongation	Judgement enough item checking	(1) Customer's requirement/agreement	Judgement lack of item checking	Decrease product quality in long-term	3	OP do not follow process	Training Operator following PS/JBS, Checksheet one by one checking points. Random cross checking by skill members Apply checking software at Appearance after elongation	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
9.6 Appearance after elongation	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in appeance check	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
9.7 Appearance after elongation	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in appeance check	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
9.8 Appearance after elongation	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in appeance check at coupler A	1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8

Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	2	R P N 5
9.9 Appearance aft elongation	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in appeance check at coupler A	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
9.10 Appearance aft	er Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in appeance check at coupler B	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
9.11 Appearance aft	er Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in appeance check at coupler B	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Temperature cy 10.1 (Note: all Agir process)		(1) Customer's requirement/agreement	Aging temperature was higher	For FOV: Take time to re-work	2	Select wrong aging program	Training Operator following JBS, PS Control by aging program and ECS to detect wrong process Apply check list before running aging Verity aging data actually by thermo sensor/recorder by template	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy (Note: all Agir process)	rele g Aging correct temperature	(1) Customer's requirement/agreement	Aging temperature was lower	For FOV: Take time to re-work	2	Select wrong aging program	Training Operator following JBS, PS Control by aging program and ECS to detect wrong process Apply check list before running aging Verify aging data actually by thermo sensor/recorder by template	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy (Note: all Agir process)	rele Enough heating cycle (time)	(1) Customer's requirement/agreement	Lack of heating cycle	For FOV: Take time to re-work	2	Select wrong aging program	Training Operator following JBS, PS Control by aging program and ECS to detect wrong process Apply check list before running aging Werliy aging data actually by thermo sensor/recorder by template	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy 10.4 (Note: all Agir process)		(1) Customer's requirement/agreement	Surplus heating cycle	For FOV: Take time to re-work	2	Select wrong aging program	Training Operator following JBS, PS Control by aging program and ECS to detect wrong process Apply check list before running aging Verify aging data actually by thermo sensor/recorder by template	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy 10.5 (Note: all Agir process)	rele ig Enough holding time	(1) Customer's requirement/agreement	Not enough holding time	For FOV: Take time to re-work	2	Input product quantity into chamber over limited	1. Training Operator following JBS, PS 2. Verify aging data actually by thermo sensor/recorder by template	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy 10.6 (Note: all Agir process)	rele ag Enough holding time	(1) Customer's requirement/agreement	Not enough holding time	For FOV: Take time to re-work	2	Temperature of environment was high	1 Monitor temperature of environment	1	2	Risk acceptance	N/A	N/A	2	1	1	2
Temperature cy 10.7 (Note: all Agir process)		(1) Customer's requirement/agreement	Not enough holding time	For FOV: Take time to re-work	2	Perfomance of chamber down	2 Verify aging data actually by thermo sensor/recorder by template	1	4	Risk acceptance	N/A	N/A	2	2	1	4
Temperature cy 10.8 (Note: all Agir process)		(3)FOV internal requirement	Over quantity	Over capacity for 1 chamber	3	Input to much board for 1 chamber	2 Instruction in PS	1	6	Risk acceptance	N/A	N/A	3	2	1	6
10.9 (Note: all Agir process)		(3)FOV internal requirement	Over quantity	Over capacity for 1 chamber	3	Input to much board for 1 chamber	2 Instruction in PS	1	6	Risk acceptance	N/A	N/A	3	2	1	6
11.1 Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Larger than actual: Re-aging if wrong Egure ratio ≥ 2.5%	For FOV: Take time to re-work	2	Operation define the Egure shape was not optimal	2 1. Training OP how to define optimal shape 2. Make sample (photo) in PS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.2 Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Larger than actual: Re-aging if wrong Egure ratio ≥ 2.5%	For FOV: Take time to re-work	2	Operation define wrong dimension of shape	2 Training OP how to determine dimension in PS/JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Larger than actual: Re-aging if wrong Egure ratio ≥ 2.5%	For FOV: Take time to re-work	2	Adjust scale after calibration	2 1. Training OP understanding about the scale of microscope after calibration 2. Applied stopper to fix the scale	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.4 Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Small than actual: Flow out to next process if wrong Egure <2.5%	Neoceram surface is not fix	2	Operation define the Egure shape was not optimal	2 1. Training OP how to define optimal shape 2. Make sample (photo) in PS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.5 Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Small than actual: Flow out to next process if wrong Egure <2.5%	Neoceram surface is not fix	2	Operation define wrong dimension of shape	2 Training OP how to determine dimension in PS/JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.6 Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Small than actual: Flow out to next process if wrong Egure <2.5%	Neoceram surface is not fix	2	Adjust scale after calibration	2 1. Training OP understanding about the scale of microscope after calibration 2. Applied stopper to fix the scale	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.7 Appearance aft	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Reject if wrong Egure ratio > 40%	Reject good product	2	Operation define the Egure shape was not optimal	1. Training OP how to define optimal shape 2. Make sample (photo) in PS 3. ENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.8 Appearance aft Aging	Determine correct Egure area	(1) Customer's requirement/agreement	Reject if wrong Egure ratio > 40%	Reject good product	2	Operation define wrong dimension of shape	1.Training OP how to determine dimension in PS/JBS 2. ENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance aft Aging	er 24H Determine correct Egure area	(1) Customer's requirement/agreement	Reject if wrong Egure ratio > 40%	Reject good product	2	Adjust scale after calibration	Training OP understanding about the scale of microscope after calibration Applied stopper to fix the scale S. ENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.10 Appearance aft Aging	er 24H Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio > 50%	Reject good product	2	Operation define the Egure shape was not optimal	Training OP how to define optimal shape Make sample (photo) in PS S. ENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance aft Aging	Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio > 50%	Reject good product	2	Operation define wrong dimension of shape	1.Training OP how to determine dimension in PS/JBS 2. ENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance aft	er 24H Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio > 50%	Reject good product	2	Adjust scale after calibration	Training OP understanding about the scale of microscope after calibration Applied stopper to fix the scale SENG/Technician cross-check before reject	2	8	Risk acceptance	N/A	N/A	2	2	2	8
11.13 Appearance aft	er 24H Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio < 50%	Data of peel-off is incorrect	2	Operation define the Egure shape was not optimal	2 1. Training OP how to define optimal shape 2. Make sample (photo) in PS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
	Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio < 50%	Data of peel-off is incorrect	2	Operation define wrong dimension of shape	Training OP how to determine dimension in PS/JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
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Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect	R P N 5
Appearance after 24h Aging	H Determine correct Hakuri area (UV-7 peel-off)	(1) Customer's requirement/agreement	Reject if wrong peel-off ratio < 50%	Data of peel-off is incorrect	2	Adjust scale after calibration	2 1. Training OP understanding about the scale of microscope after calibration 2. Applied stopper to fix the scale	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 24h Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in appeance check	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 24h Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in appeance check	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 24h Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in appeance check at coupler A	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 241 Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in appeance check at coupler A	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 24I Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in appeance check at coupler B	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
Appearance after 241 Aging	H Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in appeance check at coupler B	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.7 Termination	Return Loss at 1x2 meet spec	(2) Common standard	Fail Return Loss	For FOV: Take time to re-work	2	Lead fiber 's too press BR0 value is affected by fiber length	2 Checking status of lead fiber at early of shift (in JBS)	1	4	Risk accentance	N/A	N/A	2	2	1	4
12.8 Termination	Return Loss at 1x2 meet spec	(2) Common standard	Fail Return Loss	For FOV: Take time to re-work	2	(BR0 use for calculation RL value)	2 Applied power check each 8h to re-define BR0 or replace lead fiber	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.9 Termination	Return Loss at 1x2 meet spec	(1) Customer's requirement/agreement	Fail Return Loss	For FOV: Take time to re-work	2	Connect wrong configuration	Training follow JBS/PS for cut port (Tape color) Detect by Optical measurement (IL, RL) by measurement process and check structure at Port Coloring, App QC	2	4	Risk acceptance	N/A	N/A	2	1	2	4
12.10 Termination	Correct RL Value	(1) Customer's requirement/agreement	Incorrect RL value	Reduce performance at Customer side	4	Connect wrong configuration	Training follow JBS/PS for cut port (Tape color) Detect by Optical measurement (IL, RL) by measurement process and check structure at Port Coloring, App QC	2	8	Risk acceptance	N/A	N/A	4	1	2	8
12.11 Termination	Apply reflect treatment (Coreless, Matching gel, Small-winding,) for all opposite ports of input port	(1) Customer's requirement/agreement	Fail Return Loss	For FOV: Take time to re-work	2	Don't connect required port to apply reflect treatment	Training follow JBS/PS to apply reflect treatment In case of RL can not meet spec, OP have to re-confirm the connection	2	4	Risk acceptance	N/A	N/A	2	1	2	4
12.12 Termination	Length of termination port in spec (0.5~2.5mm)	(1) Customer's requirement/agreement	Short termination port	RL might fail	2	Have not support tool/jig for confirm the length of the termination port	Operator cut the fiber and manual control the length of fiber while operating. Apply to measure the fiber cut length before SUS packing by Microscope	2	4	Risk acceptance	N/A	N/A	2	1	2	4
12.13 Termination	Length of termination port in spec (0.5~2.5mm)	(1) Customer's requirement/agreement	Long termination port	Bad appearance	2	Have not support tool/jig for confirm the length of the termination port	Operator cut the fiber and manual control the length of fiber while operating. Apply to measure the fiber cut length before SUS packing by Microscope	2	4	Risk acceptance	N/A	N/A	2	1	2	4
12.14 Termination	Length of Elastic resin C: 2.0 ~ 4.0mm	(1) Customer's requirement/agreement	Short length of resin C	Return loss was not stable	2	Have not support tool/jig for confirm the length of the adhesive	Operator put the adhesive to fiber and manual control the length of adhesive while operating. Apply to measure the adhesive length before SUS packing by Microscope	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.15 Termination	Length of Elastic resin C: 2.0 ~ 4.0mm	(1) Customer's requirement/agreement	Long length of resin C	Bad appearance	2	Have not support tool/jig for confirm the length of the adhesive	Operator put the adhesive to fiber and manual control the length of adhesive while operating. Apply to measure the adhesive length before SUS packing by Microscope	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.16 Termination	Air bubble does not touch bare fiber	(1) Customer's requirement/agreement	Air bubble touch bare fiber	Return loss was not stable	3	Action of taking adhesive from the syring	Training operation follow JBS Check air bubble after apply resin by naked eyes ENG check in case of suspect air bubble touch bare fiber	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
12.17 Termination	Resin C was cured	(1) Customer's requirement/agreement	Resin is not dry completely	Return loss was not stable	2	Too much resin amount	2 1. Training operation follow JBS 2. Apply Clock/Timer to control waiting timer	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.18 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in measurement	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.19 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in measurement	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.20 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in measurement at coupler A	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.21 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in measurement at coupler A	2 1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.22 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in measurement at coupler B	1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12.23 Termination	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in measurement at coupler B	1. Make order of inspection: B -> A by label arrangement & ECS control for order 2. Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2	8
13.7 SUS packing	Correct SUS pipe laser printing content	(1) Customer's requirement/agreement	Using wrong SUS pipe of other product	Wrong identify at Customer side	2	Pick up wrong	1. Identify material by label and control by ID# 2. Keep good 2S and input material one by one ID, Lot as common rules 3. Apply program to check material label with product code as its number (FOV serial, Elongation code, FOV product code)	2	8	Risk acceptance	N/A	N/A	2	2	2	8
13.8 SUS packing	Can detect SUS appearance NG	(1) Customer's requirement/agreement	Cannot detect SUS appearance NG	Bad Impression on Customer side	2	- Operator skip this checking item	Standardize inspection order in PS Training operators based on process specification/JBS Patrol by Leader and SV.	3	6	Risk acceptance	N/A	N/A	2	1	3	6

Item numb er	Process	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect N 5
13.9	SUS packing	Can detect SUS appearance NG	(1) Customer's requirement/agreement	Cannot detect SUS appearance NG	Bad Impression on Customer side	2	Mis-judgment 1	- Make clear and easy to understand criteria in PS, with appropriate figure/image	3	6	Risk acceptance	N/A	N/A	2	1	3 6
13.10	SUS packing	Correct fiber position	(1) Customer's requirement/agreement	Port will be swapped	Wrong product structure	4	Alignment of Neoceram inside of SUS was downward	Training operator to understanding the making position on SUS setting board (PS, IBS) Port coloring, App QC check	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3 12
13.11	SUS packing	Correct fiber position	(1) Customer's requirement/agreement	Port will be swapped	Wrong product structure	4	Insert SUS pipe when printing laser was downward (back of Neoceram)	Training operator to understanding the making position on SUS setting board (PS, JBS) Port coloring, App QC check	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3 12
13.12	SUS packing	Enough waiting time for Loctite flow down	(3) FOV internal requirement	Lack of resin inside body of coupler	Reduce Product Reliability	4	Not enough time for Loctite flow down 1	Control waiting timer by timer Check to extra resin before apply UV curing	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3 12
13.13	SUS packing	UV intensity is in specification range	(1) Customer's requirement/agreement	UV intensity is lower than Lower Specification Limit	Loctice resin may not be cured enough (could not keep coupler inside firmly)	3	Performance of lamp was reduced day by day	Applying daily checking by UV meter Apply margin control	3	9	Risk acceptance	N/A	N/A	3	1	3 9
13.14	SUS packing	UV intensity is in specification range	(1) Customer's requirement/agreement	UV intensity is lower than Lower Specification Limit	Loctice resin may not be cured enough (could not keep coupler inside firmly)	3	UV light source was broken suddently 1	Applying daily checking by UV meter Instruct to Operator to observe the UV light at the bottom of jig under curing operation as JBS.	3	9	Risk acceptance	N/A	N/A	3	1	3 9
13.15	SUS packing	UV intensity is in specification range	(1) Customer's requirement/agreement	UV intensity is lower than Lower Specification Limit	Loctice resin may not be cured enough (could not keep coupler inside firmly)	3	Board was not closed with stopper 1	Use alarm light for UV curing jig when insert board into closely	2	6	Risk acceptance	N/A	N/A	3	1	2 6
13.16	SUS packing	UV intensity is in specification range	(1) Customer's requirement/agreement	UV intensity is lower than Lower Specification Limit	Loctice resin may not be cured enough (could not keep coupler inside firmly)	3	Product set on board was not in center -> UV light is not focus on resin (head of coupler)	Visual check of SUS's position before injecting locitic resin into SUS pipe Maxium deviation of SUS's position (from 5 to 7 mm) is still in the UV curing area	1	3	Risk acceptance	N/A	N/A	3	1	1 3
13.17	SUS packing	UV intensity is in specification range	(1) Customer's requirement/agreement	UV intensity is lower than Lower Specification Limit	Loctice resin may not be cured enough (could not keep coupler inside firmly)	3	Setting UV light bundle guideline is too far head of coupler -> UV light is not focus on resin (head of coupler)	Apply stopper for UV bundle guideline on UV curing jig. Daily apply a standard board on UV jig to confirm the distance between UV bundle guideline and SUS pipe before use (Checksheet of UV curing jig)	1	3	Risk acceptance	N/A	N/A	3	1	1 3
13.18	SUS packing	No contamination touch to fiber	(1) Customer's requirement/agreement	Contamination touch to fiber	Reduce Performance level	2	Contamination on resin 2	Inspection at App SUS by Microscope	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
13.19	SUS packing	No contamination touch to fiber	(1) Customer's requirement/agreement	Contamination touch to fiber	Reduce Performance level	2	Contamination on fiber 2	Inspection at App SUS by Microscope	3	12	Risk acceptance but need monitoring the result of risk	IN/A	N/A	2	2	3 12
13.20	SUS packing	No airbubble touch to fiber	(1) Customer's requirement/agreement	Air bubble in resin touch to fiber	Reduce Performance level	2		Inspection at App SUS by Microscope	3	12	Risk acceptance but need monitoring the result of risk		N/A	2	2	3 12
13.21	SUS packing	No airbubble touch to fiber	(1) Customer's requirement/agreement	Air bubble in resin touch to fiber	Reduce Performance level	2	Air bubble was created by Operarion when inject resin	Inspection at App SUS by Microscope	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
13.22	SUS packing	No resin peel off	(1) Customer's requirement/agreement	Resin peel-off	Bad Impression on Customer side	2	Clean operation touch to the resin 2	I.Instruction follow JBS Inspection at App SUS by Microscope Inspection at Port Coloring, App QC	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
13.23	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Contamination in resin touch to fiber	FOV: High reject % & FI cost	3	Contamination in syringe 2	Maintain syringe after using in box Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.24	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Contamination in resin touch to fiber	Customer: Not satisfied with appearance quality	3	Apply resin is too much, flow out of SUS head	Training insert D resin enough & fully with small needle Cleaning resin after injecting resin Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.25	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Air bubble in resin touch to fiber	FOV: High reject % & FI cost	3	Injection resin can be made air bubble 2	Instruct injecting resin with no air bubble by visual Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.26	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Air bubble in resin touch to fiber	Customer: Not satisfied with appearance quality	3	Apply resin is too much, flow out of SUS head	Training insert D resin enough & fully with small needle Cleaning resin after injecting resin Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.27	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Resin deformed	FOV: High reject % & FI cost	3	The needle touch resin 2	Instruct injecting resin with no air bubble by visual Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.28	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Resin deformed	Customer: Not satisfied with appearance quality	3	Apply resin is too much, flow out of SUS head	Training insert D resin enough & fully with small needle Cleaning resin after injecting resin Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.29	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Resin peel-off	FOV: High reject % & FI cost	3	Resin D and Loctite touch together with not good condition	Training inject D resin enough & fully with small needle Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.30	SUS packing	Appearance of resin is good (Cone shape)	(1) Customer's requirement/agreement	Resin peel-off	Customer: Not satisfied with appearance quality	3	Apply resin is too much, flow out of SUS head	Training insert D resin enough & fully with small needed Cleaning resin after injecting resin Check appearance after SUS packing at Port coloring and Final Appearance process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.31	SUS packing	No resin stick on fiber	(1) Customer's requirement/agreement	Fiber was stick resin	Bad impression on Customer side	2	Resin D stick on fiber (Near SUS head area only) when injection resin	Training the postion to inject D resin into coupler Cleaning after injection if detect Check appearance after SUS packing at Port coloring and Final Appearance process	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
13.32	SUS packing	No resin stick on fiber	(1) Customer's requirement/agreement	Fiber was stick resin	Bad impression on Customer side	2	Apply resin is too much, flow out of SUS head	1. Training insert D resin enough & fully with small needle 2. Cleaning resin after injecting resin 3. Check appearance after SUS packing at Port coloring and Final Appearance process process	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
13.33	SUS packing	No fiber damaged	(1) Customer's requirement/agreement	UV coat is scratch/deformed	Bad impression on Customer side	2	Fiber is touched UV bundle guideline when insert to UV curing jig 2	Apply stopper for UV jig and daily apply a standard board on UV jig to confirm the distance between UV bundle guideline and SUS pipe before use (Checksheet of UV curing jig) Check appearance after SUS packing at Port coloring and Final Appearance process.	1	4	Risk acceptance	N/A	N/A	2	2	1 4
13.34	SUS packing	No fiber damaged	(1) Customer's requirement/agreement	UV coat is scratch/deformed	Bad impression on Customer side	2	Fiber is touched the board edge with heavy press when align fiber	Check appearance after SUS packing at Port coloring and Final Appearance process	1	4	Risk acceptance	N/A	N/A	2	2	1 4
13.35	SUS packing	No fiber damaged	(1) Customer's requirement/agreement	Fiber is erack/broken	Not satisfied with appearance quality	3	Fiber is touched UV bundle guideline when insert to UV curing jig	Apply stopper for UV jig and daily apply a standard board on UV jig to confirm the distance between UV bundle guideline and SUS pipe before use (Checksheet of UV curing, ijg) Check appearance after SUS packing at Port coloring and Final Appearance process Check optical characteristic at IL measurement process	1	6	Risk acceptance	N/A	N/A	3	2	1 6
13.36	SUS packing	No fiber damaged	(1) Customer's requirement/agreement	Fiber is crack/broken	Not satisfied with appearance quality	3	Fiber is touched the board edge with heavy press when alignment fiber	Check appearance after SUS packing at Port coloring and Final Appearance process. Check optical characteristic at Loss measurement process	1	6	Risk acceptance	N/A	N/A	3	2	1 6

Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	_	R P N 5
13.37 SUS packing	Can detect resin damaged	(1) Customer's requirement/agreement	Cannot detect resin damaged	Cannot keep fiber with SUS pipe	3	- Opearator skip this checking item	1. Make clear inspection order in PS - Training operators based on process specification/JBS	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4	12
13.38 SUS packing	Can detect resin damaged	(1) Customer's requirement/agreement	Cannot detect resin damaged	Cannot keep fiber with SUS pipe	3	Mis-judgment	Make clear and easy to understand criteria in PS, with appropriate figure/image	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4	12
13.39 SUS packing	Can detect fiber damaged	(1) Customer's requirement/agreement	Cannot detect fiber damaged	Bad Impression on Customer side	2	- Opearator skip this checking item	1. Make clear inspection order in PS 2. Training operators based on process specification/JBS 3. Appearance 20%6 at PB. Port before Port and QC Appearance 4. Usage loupe and plate for detect damaged point.	2	8	Risk acceptance	N/A	N/A	2	2	2	8
13.40 SUS packing	Can detect fiber damaged	(1) Customer's requirement/agreement	Cannot detect fiber damaged	Bad Impression on Customer side	2	Mis-judgment	2 - Make clear and easy to understand criteria in PS, with appropriate figure/image	2	8	Risk acceptance	N/A	N/A	2	2	2	8
13.41 SUS packing	SUS printing laser is at back side of coupler A	(1) Customer's requirement/agreement	Back of coupler B was at SUS printing laser	Calculate coupler module is not correct	4	Setting fiber for SUS packing with laser printing is at back side of coupler B	I. Instruction clearly on PS, JBS Can detect at appearance after SUS packing, Port coloring, Final Appearance	2	8	Risk acceptance	N/A	N/A	4	1	2	8
13.42 SUS packing	SUS printing laser is at back side of coupler A	(1) Customer's requirement/agreement	Back of coupler B was at SUS printing laser	Wrong product structure	3	Setting fiber for SUS packing with laser printing is at back side of coupler B	1. Instruction clearly on PS, JBS 2. Can detect at appearance after SUS packing, Port coloring, Final Appearance	2	6	Risk acceptance	N/A	N/A	3	1	2	6
13.43 SUS packing	No resin stick on SUS pipe	(1) Customer's requirement/agreement	Cannot detect resin on SUS pipe	Bad Impression on Customer side	2	The checking zone was not defined clearly	2 - Make clear and easy to understand criteria in PS, with appropriate figure/image	2	8	Risk acceptance	N/A	N/A	2	2	2	8
14.1 Loss	Connection correctly (input/output port)	(1) Customer's requirement/agreement	Wrong measured input port	Difficult in calculation to assembly coupler	3	Operator determine wrong input port	1. Use tool to check color to determine input/outport 2. Program will judge "NG - optical" result for product after measurement 3. At final loss, there is FIL spec (Fluctuation in Insertion loss at Process Loss	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
14.2 Loss	Connection correctly (input/output port)	(1) Customer's requirement/agreement	Wrong output port (swap port 3dB)	Difficult in calculation to assembly coupler	3	Operator determine wrong output port	1. Use tool to check color to determine input/outport 2. Program will alert swap port if wrong output connection 3. At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2	12
14.3 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Bad splicing point	1. Limit splicing loss is < 0.5dB on splicers 2. Apply Cutback method to eliminate effectiveness of splicing loss. 3. At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss.	2	8	Risk acceptance	N/A	N/A	2	2	2	8
14.4 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Wrong splicing mode	Fix splicing mode on spileers and make clear in JBS. Apply Cutback method to eliminate effectiveness of splicing loss. At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	8	Risk acceptance	N/A	N/A	2	2	2	8
14.5 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Bare fiber connect to sensor too far	Distance of bare fiber to sensor have to use holder and cleaver Apply fiber holder jig and instruct Operator connect to holder correctly (JBS) At final loss, there is FIL spec (Fibertation in Insertion Loss) to check again with Insertion loss at Process Loss 4. Apply Repeatability checking after connection.	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3	12
14.6 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Bare fiber connect to sensor too closed	Distance of bare fiber to sensor have to use holder and cleaver Apply fiber holder jig and instruct Operator connect to holder correctly (JBS) And final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss Apply Repeatability checking after connection.	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3	12
14.7 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Contamination on sensor	Reading wrong outpower -> Fail optical: ENG will detect by measurement Standard coupler weekly At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	4	Risk acceptance	N/A	N/A	2	1	2	4
14.8 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Contamination on bare fiber	Make clear requirement for cleaning bare fiber in JBS Applied Cut repeatability check before measuring (Compare output power between 2 cutting times) And final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	4	Risk acceptance	N/A	N/A	2	1	2	4
14.9 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Bare fiber cutting bad condition	1. Applied Cut repeatability check before measuring (Compare output power between 2 cutting times) 2. At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3	12
14.1 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Don't insert to matching gel (4 port product)	Require to insert to matching gel in JBS At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	4	Risk acceptance	N/A	N/A	2	1	2	4
14.11 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Bad contact fiber to matching gel (4 port product)	Require to insert to matching gel in JBS At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	2	8	Risk acceptance	N/A	N/A	2	2	2	8
14.12 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Impact splicing point when measuring	1. Put splicing point on fix position 2. Require no operation at measurement system when measuring in JBS 3. At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	4	8	Risk acceptance	N/A	N/A	2	1	4	8
14.13 Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Impact lead fiber when measuring	Require no operation at measurement system when measuring in JBS At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	4	8	Risk acceptance	N/A	N/A	2	1	4	8

Item numb er	Process	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect N 5
14.14	Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Lead fiber's too press 1	Checking status of lead fiber at early of shift (in JBS) At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	4	8	Risk acceptance	N/A	N/A	2	1	4 8
14.15	Loss	Measurement data is correct for product	(1) Customer's requirement/agreement	Over uncertainty between FOV and customer	Difficult in calculation to assembly coupler	2	Don't winding Cutback loop (Only 1550nm band)	Make template to require winding Cutback loop and require it in JBS At final loss, there is FIL spec (Fluctuation in Insertion Loss) to check again with Insertion loss at Process Loss	4	8	Risk acceptance	N/A	N/A	2	1	4 8
14.16	Loss	Optical characteristic is correct for product	(1) Customer's requirement/agreement	Swap other product (Same product type)	Difficult in calculation to assembly coupler	4	Mistake when transfer board (Re- confirm label color or big board - TDL 2	TDL measuring only can apply big board Confirm SUS number match with serial number at Port, App	1	8	Risk acceptance	N/A	N/A	4	2	1 8
14.17	Loss	Optical characteristic is correct for product	(1) Customer's requirement/agreement	Swap other product (Different product type)	Can not use in Customer	5	measurement) Mistake when transfer board (Re- confirm label color or big board - TDL measurement) 2	TDL measuring only can apply big board Confirm SUS number match with serial number at Port, App	1	10	Risk acceptance	N/A	N/A	5	2	1 10
14.18	Loss	Finish judgement for special spec	(1) Customer's requirement/agreement	Do not confirm checking result from Engineering	NG product could be flow out to Customer	3	Mistake while control WIP 1	Notify to PRD share serial need to check to ENG/Clerk directly by Scan out software Detect by Test report	2	6	Risk acceptance	N/A	N/A	3	1	2 6
14.19	Loss	Judgement correctly for special spec	(1) Customer's requirement/agreement	Flow out to Customer	NG product could be flow out to Customer	3	Using wrong template for judgement 1	Name of template with product code in tittle to prevent using wrong Training to related member how to use template and abnormal in case of using wrong	2	6	Risk acceptance	N/A	N/A	3	1	2 6
14.2	Loss	Enough measurement data	(1) Customer's requirement/agreement	Lack of data for Test report	Lack of data for Test report	3	Operator did not measure enough port 2	Program only judge on ECS if enough measured port	1	6	Risk acceptance	N/A	N/A	3	2	1 6
14.21	Loss	Enough measurement data	(1) Customer's requirement/agreement	Lack of data for Test report	Lack of data for Test report	3	Operator did not follow NC treatment 2	(Rework) - Control by e-Nonconforming Program only judge on ECS if enough measured port	1	6	Risk acceptance	N/A	N/A	3	2	1 6
14.22	Loss	Enough sampling size for Temperature Depend Loss (Final loss only)	(1) Customer's requirement/agreement	Not enough quantity for shipping	Delay shipping	4	Operator did not measure TDL follow program's instruction	Prevent at Scan out Test report control quantity for shipping.	1	4	Risk acceptance	N/A	N/A	4	1	1 4
14.23	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Calculate coupler module is not correct	4	Swap in scan serial or in measurement 1	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8
14.24	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in measurement 2	Make order of inspection: B → A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8
14.25	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Calculate coupler module is not correct	4	Duplicated in measurement at coupler A	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8
14.26	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in measurement at coupler A	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8
14.27	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Calculate coupler module is not correct	4	Duplicated in measurement at coupler B	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8
14.28	Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in measurement at coupler B Applied small winding for reflection	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8
15.7	Retum Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	treatment, but winding loops was not keep tighten during measurement (1550nm)	Applied jig (-4mm diameter for loop) to winding loop and make clear operation how to keep fiber winding by jig in JBS (at least 3 loops). Control statistic RL 3-sigma in RL measurement program	1	4	Risk acceptance	N/A	N/A	2	2	1 4
15.8	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	Applied small winding for reflection treatment, but winding loops diameter was big (1550nm)	Applied jig (-4mm diameter for loop) to winding loop and make clear operation how to keep fiber winding by jig in JBS (at least 3 loops). Control statistic RL 3-sigma in RL measurement program	1	4	Risk acceptance	N/A	N/A	2	2	1 4
15.9	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	Impact splicing point when measuring 2	Put splicing point on fix position Require no operationon splicing point at measurement system when measuring in JBS Control statistic RL 3-sigma in RL measurement program	1	4	Risk acceptance	N/A	N/A	2	2	1 4
15.1	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	Impact lead fiber when measuring 1	Require no operation at measurement system when measuring in JBS Control statistic RL 3-sigma in RL measurement program	1	2	Risk acceptance	N/A	N/A	2	1	1 2
15.11	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	Lead fiber 's too press 2	Checking status of lead fiber at early of shift (in JBS) Control statistic RL 3-sigma in RL measurement program	1	4	Risk acceptance	N/A	N/A	2	2	1 4
15.12	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	For FOV: Take time to re-work	2	BR0 value is affected by fiber length (BR0 use for calculation RL value)	Applied power check each 8h to re-define BR0 or replace lead fiber Control statistic RL 3-sigma in RL measurement program	1	4	Risk acceptance		N/A	2	2	1 4
15.13	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Bad splicing point 2	$ \ 1.\; Limit\; splicing\; loss\; is < 0.5 dB\; on\; splicers\; setting $ $ \ 2.\; Control\; statistic\; RL\; 3\text{-sigma}\; in\; RL\; measurement\; program $	2	12	Risk acceptance but need monitoring the result of risk		N/A	3	2	2 12
15.14	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Wrong spilcing mode 2	Fix splicing mode on spilcers and make clear in JBS. Control statistic RL 3-sigma in RL measurement program	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2 12
15.15	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Applied small winding for reflection treatment, but winding loops was not keep tighten during measurement (1550nm)	Applied jig (-4mm diameter for loop) to winding loop and make clear operation how to keep fiber winding by jig in JBS (at least 3 loops). Control statistic RL 3-sigma in RL measurement program	1	6	Risk acceptance	N/A	N/A	3	2	1 6
15.16	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Applied small winding for reflection treatment, but winding loops diameter was big (1550mm)	Applied jig (-4mm diameter for loop) to winding loop and make clear operation how to keep fiber winding by jig in JBS (at least 3 loops). 2. Control statistic RL 3-sigma in RL measurement program	1	6	Risk acceptance	N/A	N/A	3	2	1 6
15.17	Return Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Impact splicing point when measuring 2	Put splicing point on fix position Require no operationon splicing point at measurement system when measuring in JBS Control statistic RL 3-sigma in RL measurement program	1	6	Risk acceptance	N/A	N/A	3	2	1 6

Item numb er		Process	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect N 5	
15.18	Return	n Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Impact lead fiber when measuring 1	Require no operation at measurement system when measuring in JBS Control statistic RL 3-sigma in RL measurement program	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.19	Return	m Loss	Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	Lead fiber 's too press 2	Checking status of lead fiber at early of shift (in JBS) Control statistic RL 3-sigma in RL measurement program	1	6	Risk acceptance	N/A	N/A	3	2	1 6	5
15.2	Return		Measurement data is correct of product	(1) Customer's requirement/agreement	Failed RL	Customer: Unsatisfied with measurement accuracy	3	BR0 value is affected by fiber length (BR0 use for calculation RL value)	Applied power check each 8h to re-define BR0 or replace lead fiber Control statistic RL 3-sigma in RL measurement program	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2 12	2
15.21	Return	m Loss	Optical characteristic is correct for product	(1) Customer's requirement/agreement	Swap other product (Same product type)	FOV: Take time to check and re-work	3	Scan input but measuring on other product	Applied scan serial on board directly Only allow 1 product on measurement system	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.22	Return	m Loss	Optical characteristic is correct for product	(1) Customer's requirement/agreement	Swap other product (Different product type)	FOV: Take time to check and re-work	3	Scan input but measuring on other product 1	Apply scan serial on board directly Only allow 1 product on measurement system Someton statis R.1-sigma in R.L measurement program can detect if the product was different type	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.23	Return	n Loss	Enough measurement data	(1) Customer's requirement/agreement	Lack of data for Test report	FOV: Take time to check and re-work	3	Operator did not measure enough port 1	Program only judge on ECS if enough measured port Test report will check enough data or not	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.24	Return	m Loss	Enough measurement data	(1) Customer's requirement/agreement	Lack of data for Test report	FOV: Take time to check and re-work	3	Operator did not follow NC treatment 1	(Rework) - Control by e-Nonconforming 1. Program only judge on ECS if enough measured port 2. Test report will check enough data or not	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.25	Return	m Loss	Enough RL sampling quantity for shipping	(1) Customer's requirement/agreement	Lack of sampling RL quantity	FOV: Take time to check	2	Operator did not identify the product which applied sampling RL 1 measurement	RL sampling product identified by attachment with Green label select by VB6 measurement program Set up jets asympling size automatically by MFGFCS function Test report control quantity for shipping.	1	2	Risk acceptance	N/A	N/A	2	1	1 2	2
15.26	Returr	n Loss	Enough RL sampling quantity for shipping	(1) Customer's requirement/agreement	Lack of sampling RL quantity	Customer: Have no RL product to guarantee for shipping		Operator did not identify the product which applied sampling RL 1 measurement	RL sampling product identified by attachment with Green label select by VB6 measurement program Set up jets ampling size automatically by MFG/ECS function Test report control quantity for shipping.	1	3	Risk acceptance	N/A	N/A	3	1	1 3	3
15.27	Return	n Loss	Enough RL sampling quantity for shipping	(1) Customer's requirement/agreement	Lack of sampling RL quantity	FOV: Take time to check	2	Operator did not measure RL follow program's instruction	Port coring will check for the product with measured or not Test report control quantity for shipping.	1	2	Risk acceptance	N/A	N/A	2	1	1 2	!
15.28	Return	n Loss	Enough RL sampling quantity for shipping	(1) Customer's requirement/agreement	Lack of sampling RL quantity	Customer: Have no RL product to guarantee for shipping	3	Operator did not measure RL follow program's instruction	Port coring will check for the product with measured or not Test report control quantity for shipping.	1	3	Risk acceptance	N/A	N/A	3	1	1 3	š
15.29	Return	n Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Calculate coupler module is not correct	4	Swap in scan serial or in measurement 1	Make order of inspection: B > A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8	}
15.3	Return	m Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Swap data coupler A and B	Traceback data incorrect	2	Swap in scan serial or in measurement 2	Make order of inspection: B > A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8	}
15.31	Return	m Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Calculate coupler module is not correct	4	Duplicated in measurement at coupler A	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8	3
15.32	Return	n Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler A	Traceback data incorrect	2	Duplicated in measurement at coupler A	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8	3
15.33	Return	n Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Calculate coupler module is not correct	4	Duplicated in measurement at coupler B	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	4	1	2 8	3
15.34	Return	n Loss	Data of A,B coupler exactly	(3) FOV internal requirement	Copied data coupler B	Traceback data incorrect	2	Duplicated in measurement at coupler B	Make order of inspection: B -> A by label arrangement & ECS control for order Training recognize A,B in PS, JBS	2	8	Risk acceptance	N/A	N/A	2	2	2 8	3
16.7	Port o	coloring	Marking color are correct	(1) Customer's requirement/agreement	Wrong marking color	Could make wrong connection at Customer side	4	Using wrong color of marking pen -> Setting wrong order	Cross check with marking pen, PS and template Cross check by Leader after changing product code or template Cross checking by final appearance inspection process	2	8	Risk acceptance	N/A	N/A	4	1	2 8	3
16.8	Port o	coloring	Marking color are correct	(1) Customer's requirement/agreement	Wrong marking color	Customer will recognize wrong port	4	Using wrong color of marking pen -> Pick up wrong	Cross check with marking pen, PS and template before marking Cross checking at Final Appearance process	2	24	Must take countermeasure and then evaluate the risk again	1. 15-Sep-2024 2. 3-Jul-2024 3. 30-Sep-2024	Apply checking color on Top Cap and Bottom Cap before select the marking pen for Visibility of color Change the method of confirmation the mark pen (after pick up) with pre- coloring before apply whole port length. 3. Design new fixture to control sequence of usage marking pen matching with products port fiber (coloring requirement).	4	2	2 1	6
16.9	Port o	coloring	Marking color are correct	(1) Customer's requirement/agreement	No color on required port	Could make wrong connection at Customer side	4	Forget marking (Human mistake) 1	Training check color on product before transfer to next process Cross checking at Final Appearance process	2	8	Risk acceptance	N/A	N/A	4	1	2 8	}
16.1	Port co	coloring	Marking color are correct	(1) Customer's requirement/agreement	No color on required port	Could make wrong connection at Customer side	4	Mistake control WIP before/after at process 1	Cross checking at Final Appearance process	2	8	Risk acceptance	N/A	N/A	4	1	2 8	3
16.11	Port co	coloring	Marking color are correct	(1) Customer's requirement/agreement	Mixing color	Inconvenience when using at customer's side	3	Coppied color from other port 2	Dry wiping after marking follow JBS Seperatate ports position by template after marking each port Cross checking at Final Appearance process	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2 13	2
16.12	Port co	coloring	Enough marking length	(1) Customer's requirement/agreement	Surplus marked length	Inconvenience when using at customer's side	2	Determine wrong marking end-start point 1	Make template with end-start marking point Cross checking at Final Appearance process	2	4	Risk acceptance	N/A	N/A	2	1	2 4	1

Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity	Potential Cause(s) / Failure Mechanism(s)	Current Design/ProcessControls (Prevention/Detection)	Detect	R P N	Final Decision	Responsibility & Target Completion Date	Actions Taken	Severity	Occurrence	Detect N S
16.13 Port coloring	Enough marking length	(1) Customer's requirement/agreement	Lack of marked length	Inconvenience when using at customer's side	2	Determine wrong marking end-start point	Make template with end-start marking point Cross checking at Final Appearance process	2	4	Risk acceptance	N/A	N/A	2	1	2 4
16.14 Port coloring	At least half of fiber have clear color continuously.	(1) Customer's requirement/agreement	Color is not painted continuously.	Inconvenience when using at customer's side	2	The next coloring is not overlap with the previous coloring step.	I. Instruct the marking method (overlap position) follow JBS 2. Appearance fiber coloring after coloring 3. Mark 2 times at least on port 4. Cross checking at Final Appearance process	2	4	Risk acceptance	N/A	N/A	2	1	2 4
17.1 Final Appearance	Can detect mismatch between SN on SUS, SN on checksheet and SN on product label	(3) FOV internal requirement	Cannot detect the mismatch between SN on SUS, SN on checksheet and SN on product label	Wrong traceability	2	Laser printing is hard to check so OP cannot check clearly.	- Shade the SUS pipe to check the laser printing and compare with SN on checksheet and SN on product's label. - Check SUS no with product label at Port coloring, QC Final Appearance	2	8	Risk acceptance	N/A	N/A	2	2	2 8
17.2 Final Appearance	Can detect mismatch between SN on SUS, SN on checksheet and SN on product label	(3) FOV internal requirement	Cannot detect the mismatch between SN on SUS, SN on checksheet and SN on product label	Wrong traceability	2	Opearator skip this checking item	Standardize inspection order in PS. Training operators based on process specification/IBS. Patrol by Leader and SV. Test skill Operators.	3	6	Risk acceptance	N/A	N/A	2	1	3 6
17.3 Final Appearance	Can detect SUS appearance NG	(1) Customer's requirement/agreement	Cannot detect SUS appearance NG	Bad Impression on Customer side	2	Operator skip this checking item	- Standardize inspection order in PS Training operators based on process specification/JBS Patrol by Leader and SV.	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	2	2	3 12
17.4 Final Appearance	Can detect SUS appearance NG	(1) Customer's requirement/agreement	Cannot detect SUS appearance NG	Bad Impression on Customer side	2	Mis-judgment	1 - Make clear and easy to understand criteria in PS, with appropriate figure/image.	3	6	Risk acceptance	N/A	N/A	2	1	3 6
17.5 Final Appearance	Can detect resin damaged	(1) Customer's requirement/agreement	Cannot detect resin damaged	Cannot keep fiber with SUS pipe	3	Opearator skip this checking item	- Make clear inspection order in PS. - Training operators based on process specification/JBS.	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4 12
17.6 Final Appearance	Can detect resin damaged	(1) Customer's requirement/agreement	Cannot detect resin damaged	Cannot keep fiber with SUS pipe	3	Mis-judgment	1 - Make clear and easy to understand criteria in PS, with appropriate figure/image	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4 12
17.7 Final Appearance	Can detect fiber damaged	(1) Customer's requirement/agreement	Cannot detect fiber damaged	Bad Impression on Customer side	2	Opearator skip this checking item	- Make clear impection order in PS - Training operators based on process specification/JBS - Training operators based on process specification/JBS - Usage black background to increase ability of detection.	2	8	Risk acceptance	N/A	N/A	2	2	2 8
17.8 Final Appearance	Can detect fiber damaged	(1) Customer's requirement/agreement	Cannot detect fiber damaged	Bad Impression on Customer side	2	Mis-judgment	2 - Make clear and easy to understand criteria in PS, with appropriate figure/image	2	8	Risk acceptance	N/A	N/A	2	2	2 8
17.9 Final Appearance	Can detect wrong color's length	(1) Customer's requirement/agreement	Cannot detect wrong port length	Inconvenience when using at customer's side	3	Using wrong template to check port coloring length	- Cross check template at when changing product code - Compare product code on template with product code on PS, serial.	2	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	2	2 12
17.10 Final Appearance	Can detect wrong color on port	(1) Customer's requirement/agreement	Cannot detect wrong port's color	Wrong connection at customer's side	4	Operator use incorrect method of inspection: do not separate each fiber's port	Make clear the correct method in document Updated template clearly and instruction for confirmed points (side, color marking) For port identification correctly Check template type when change product code Separate cach port by sponge	2	16	Must take countermeasure and then evaluate the risk again	30-Apr-2025	Apply camera for image processing to detect swap port	4	1	2 8
17.11 Final Appearance	Can detect the short-length product	(1) Customer's requirement/agreement	Short-length product is flowed out to customer	Cannot connect at customer's side	4	Using wrong template	Apply cross check template (cutting position) by leader on table before cutting Compare code on Template with code on product serial and document	2	8	Risk acceptance	N/A	N/A	4	1	2 8
17.12 Final Appearance	Cut Correct length of each port	(1) Customer's requirement/agreement	Short-length product is flowed out to customer	Cannot connect at customer's side	4	Using wrong template	Apply cross check template (cutting position) by leader on table before cutting Compare code on Template with code on product serial and document	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3 12
17.13 Final Appearance	Cut Correct length of each port	(1) Customer's requirement/agreement	Short-length product is flowed out to customer	Cannot connect at customer's side	4	Cutting wrong position	Cover inactive template by sheet Apply cross check template (cutting position) by leader on table before cutting Training OP the correct cutting method.	3	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	4	1	3 12
17.14 Final Appearance	Cut Correct length of each port	(1) Customer's requirement/agreement	Surplus length	Inconvenience when using at customer's side	3	No cutting	Training OP follow JBS. Apply jig to control cutting quantity	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4 12
17.15 Final Appearance	Cut Correct length of each port	(1) Customer's requirement/agreement	Surplus length	Inconvenience when using at customer's side	3	Using wrong template	Apply cross check template (cutting position) by leader on table before cutting Compare code on Template with code on product serial and document	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4 12
17.16 Final Appearance	Cut Correct length of each port	(1) Customer's requirement/agreement	Surplus length	Inconvenience when using at customer's side	3	Cutting wrong position	Cover inactive template by sheet Apply cross check template (cutting position) by leader on table before cutting Training OP the correct cutting method.	4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4 12
18.1 QC Casing	Put SUS pipe in the tray/ sponge in correct direction	(1) Customer's requirement/agreement	Put SUS pipe in the tray/ sponge in wrong direction	Inconvenience when using at customer's side	2	OP do wrong operation	1 - Describle the SUS pipe direction in PS clearly	4	8	Risk acceptance	N/A	N/A	2	1	4 8
18.2 QC Casing	Correct sponge's quantity on each groove	(1) Customer's requirement/agreement	Surplus sponge	Inconvenience when using at customer's side	2	No control quantity in line	Use jig to control quantity of each spool Oescrible jig in PS clearly Re-check at labeling	2	4	Risk acceptance	N/A	N/A	2	1	2 4
18.3 QC Casing	Correct sponge's quantity on each groove	(1) Customer's requirement/agreement	Lack of sponge	Cannot keep fiber inside spool	3	No control quantity in line	- Use jig to control quantity of each spool 1 - Describle jig in PS clearly - Re-check at labeling	2	6	Risk acceptance	N/A	N/A	3	1	2 6
18.4 QC Casing	Correct material for casing	(1) Customer's requirement/agreement	Use wrong material (tray, sponge)	Cannot keep product completely	3	Pick up wrong material	- Identify material by label - Describle material code in PS clearly	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.5 QC Casing	Fiber is kept inside tray	(1) Customer's requirement/agreement	Fiber is not kept inside tray	Fiber is damaged	3	Fiber is not put inside tray	Add instruction clearly Instruct to OP to casing	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.6 QC Casing	Fiber is kept inside tray	(1) Customer's requirement/agreement	Fiber is not kept inside tray	Fiber is damaged	3	Not enough sponge	Use jig to control quantity of each tray Describle jig in document	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.7 QC Casing	Fiber is kept inside tray	(1) Customer's requirement/agreement	Fiber is not kept inside tray	Fiber is damaged	3	Not enough tape	Use jig to control quantity of each coil Describle jig in PS	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.8 QC Casing	Enough sponge inside tray	(1) Customer's requirement/agreement	Surplus sponge	Inconvenience when using at customer's side	2	No control quantity in line	Use jig to control quantity of each coil Describle jig in document	3	6	Risk acceptance	N/A	N/A	2	1	3 6
18.9 QC Casing	Enough sponge inside tray	(1) Customer's requirement/agreement	Lack of sponge	Cannot keep fiber inside tray	3	No control quantity in line	Use jig to control quantity of each coil Describle jig in document	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.10 QC Casing	Enough tape for each port	(1) Customer's requirement/agreement	Surplus tape	Inconvenience when using at customer's side	2	No control quantity in line	Use jig to control quantity of each coil Describle iig in PS	3	6	Risk acceptance	N/A	N/A	2	1	3 6
18.11 QC Casing	Close Correct direction of tray body and tray cover	(1) Customer's requirement/agreement	Wrong direction of tray body and tray cover	Inconvenience when using at customer's side	3	Do not check tray cover and tray direction before closing	Describle method of fix the tray cover and tray body Check at label process Make clear inspection order in PS	3	9	Risk acceptance	N/A	N/A	3	1	3 9
18.12 QC Casing	Can detect packing material (tray, label)'s appearance damaged	(3) FOV internal requirement	Cannot detect packing material's appearance damaged	Inconvenience when using at customer's side		Operator skip checking items	Check packing material's apperance at Casing and QC Appearance 200%	3	6	Risk acceptance	N/A	N/A	2	1	3 6
18.13 QC Casing	Can detect packing material (tray, label)'s appearance damaged	(3) FOV internal requirement	Cannot detect packing material's appearance damaged	Inconvenience when using at customer's side	2	Mis-judgment	- Make clear and easy to understand criteria in PS, with appropriate figure/image	3	6	Risk acceptance	N/A	N/A	2	1	3 6
18.14 QC Casing	Correct label's position	(1) Customer's requirement/agreement	wrong label's position	Inconvenience when using at customer's side	2	Have no instruct on document	Describle label's position in PS Use jig to paste label	3	6	Risk acceptance	N/A	N/A	2	1	3 6

Part																	
Q. C. Marker Mark	Item numb Process er	Requirements	Requirement classification	Potential Failure Mode	Potential Effect(s) of Failure	Severity			Detect		Final Decision	& Target Completion	Actions Taken	Severity	Occurrence	Detect	₹ P N 5
	18.15 QC Casing	Correct label's content	(1) Customer's requirement/agreement	Wrong label's content	Fail Identification product as requirement from customer	3	Set up in-correct value		3	9	Risk acceptance	N/A	N/A	3	1	3	9
2 2 1 1 1 1 1 1 1 1	19.1 QC label	Enough label	(1) Customer's requirement/agreement	Lacking of bag's label		3	Do not contrrol quantity	1 - Re-confirm at carton packing	1	3	Risk acceptance	N/A	N/A	3	1	1	3
	19.2 QC label	Enough label	(1) Customer's requirement/agreement	Surplus label (product label)	Inconvenience when using at customer's side	2	Do not contrrol quantity	- Re-confirm at carton packing	2	4	Risk acceptance	N/A	N/A	2	1	2	4
Non-position May - Non-pos	19.3 QC label	Correct label	(1) Customer's requirement/agreement	Swap label	Fail Identification product as requirement from customer	3	Mistake during operation	1 - Use cover sheet to cover each product	4	12		N/A	N/A	3	1	4	12
12 13 13 14 15 15 15 15 15 15 15	19.4 Vacuum packing	Bag is vacuum completely	(1) Customer's requirement/agreement	Bag is loosen	Dissatisfied customers	2			2	4	Risk acceptance	N/A	N/A	2	1	2	4
10 10 10 10 10 10 10 10	19.5 Vacuum packing	Tray is not damaged after vacuum	(1) Customer's requirement/agreement	Tray is deformed	Dissatisfied customers	2	Vacuum specifiaction (time, force,)	- Reconfirm with sample	2	4	Risk acceptance	N/A	N/A	2	1	2	4
2 Comparison of the Comparis	20.1 QC Packing		(1) Customer's requirement/agreement		Dissatisfied customers	2		- Make clear inspection order in PS	4	8	Risk acceptance	N/A	N/A	2	1	4	8
10 10 10 10 10 10 10 10	20.2 QC Packing	Can detect NG appearance on carton	(1) Customer's requirement/agreement	Cannot detect NG appearance carton	Dissatisfied customers	2	Mis-judgment		4	8	Risk acceptance	N/A	N/A	2	1	4	8
	20.3 OC Packing		(1) Customer's requirement/agreement		Cannot keen product safety	2	Pick up wrong carton boy	1 - Describle carton box type in Document	3	6	Risk accentance	N/A	N/A	2	1	3	6
1	20.4 QC Packing			Wrong Impact label's type (more strict				- Decleare material code in PS	3	9				3	1	3	9
The Conting	20.5 QC Packing	Correct Impact label's type	(1) Customer's requirement/agreement	Wrong Impact label's type (lighter than spec)	Wrong guarantee	4	Pick up wrong material		3	12		N/A	N/A	4	1	3	12
10 10 10 10 10 10 10 10	20.6 QC Packing	Correct impact label direction	(1) Customer's requirement/agreement	Wrong impact label direction	May not enough guarantee	3			3	9	Risk acceptance	N/A	N/A	3	1	3	9
10 10 10 10 10 10 10 10	20.7 QC Packing	Enough carton's label	(1) Customer's requirement/agreement	Lack of carton's label	Dissatisfied customers	2	Forget paste label on box	- Paste label before scanning	1	2	Risk acceptance	N/A	N/A	2	1	1	2
10 Comparing Possible Possible Possible Possible Possible Possible Possible Possible Contame Possible	20.8 QC Packing	Enough carton's label	(1) Customer's requirement/agreement	Surplus carton's label	Dissatisfied customers	2	Not control quantity	Control label's quantity	3	6	Risk acceptance	N/A	N/A	2	1	3	6
1 1 1 1 1 1 1 1 1 1	20.9 QC Packing	Correct carton label	(1) Customer's requirement/agreement	Stick label wrong	Indentify product wrong	3	Pick up wrong label	1 - Software can detect	1	3	Risk acceptance	N/A	N/A	3	1	1	3
1	20.1 QC Packing	Enough product's quantity for each box	(1) Customer's requirement/agreement	Surplus product in carton box	Inconvenience when using at customer's side	2	Do not control quantity each box	- Control by software	2	8	Risk acceptance	N/A	N/A	2	2	2	8
12 Q. Peksung Correct probated by in contrast () Common strainfed automores () Common strainfed automores () Common strainfed NA NA NA NA NA NA NA N	20.11 QC Packing	Enough product's quantity for each box	(1) Customer's requirement/agreement	Lack of product in carton box	Dissatisfied customers	3	Do not control quantity each box		2	12		N/A	N/A	3	2	2	12
1. Q. C. Final pasking C. Fin	20.12 QC Packing	Correct product type in carton box	(1) Customer's requirement/agreement	Wrong product type in carton box		3	packing	1 - Software can detect	2	6				3	1	2	6
Impact label/Shockwarch is not closed impact label/Shockwarch is not closed by packing operation Description	20.13 QC Packing	Correct carton box's direction	(2) Common standard	Wrong carton box's direction	Dissatisfied customers	2	Wrong operation	Instruct the correct direction in common standard	2	4	Risk acceptance	N/A	N/A	2	1	2	4
actived by packing operation of PV internal requirement active depreciation packing operation actived by packing operation of the pallet active activ	21.1 QC Final packing	Carton box is storaged in spec	(1) Customer's requirement/agreement	Carton box is storaged out of spec	Dissatisfied customers	2	Do not control the storaged condition	Control storage condition by setting alarm on system	2	4	Risk acceptance	N/A	N/A	2	1	2	4
setive ' (3) POV internal requirement label/shockwatch actived NA NA NA NA NA NA NA N	21.2 QC Final packing		(3) FOV internal requirement		Reduce performance	3			3	9	Risk acceptance	N/A	N/A	3	1	3	9
As Josephson active (3) POV internal requirement label/shockwatch actived serious frequirement label/shockwatch actived label/shockwatch	21.3 QC Final packing		(3) FOV internal requirement		Reduce performance	3	Opearator skip this checking item		4	12		N/A	N/A	3	1	4	12
Simpling Pick up correct PO (1) Customer's requirement/agreement Picking wrong PO on the pallet Dissatisfied customers 3 Pick up wrong pallet 1 - Checking by software 1 3 Risk acceptance N/A N/A N/A 3 1 1 3	21.4 QC Final packing	Detect impact label/shockwatch active	(3) FOV internal requirement		Reduce performance	3	Mis-judgment	1 - Make clear and easy to understand criteria in PS, with appropriate figure/image	4	12		N/A	N/A	3	1	4	12
2. Skipping Pick up correct PO (1) Customer's requirement/greement Pick up wrong PO (1) Sustainfied customers 1 2 4 5 pick up wrong Pallet 1 2 5 kipping Pic	21.5 QC Final packing	Packing correct PO on the pallet	(1) Customer's requirement/agreement	Packing wrong PO on the pallet	Dissatisfied customers	3	Pick up wrong carton box		1	3	Risk acceptance	N/A	N/A	3	1	1	3
2. Shiping Enough quantity of pallet (1) Customer's requirement/agreement Lack of quantity Dissatisfied customers 3 Pick up wrong Pallet 1 - OP pick up whose pallet and Packing List 1 - OP pick up whos	22.1 Shipping	Pick up correct PO	(1) Customer's requirement/agreement	Pick up wrong PO	Dissatisfied customers	3	Pick up wrong Pallet	- OP pick up pallet follow label on pallet and Packing List	1	3	Risk acceptance	N/A	N/A	3	1	1	3
2. Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (1) Customer's requirement/gargerment (2) Shiping Enough quantity of pallet (2) Shiping Enough quantity of pallet and Packing Lists of pallet and	22.2 Shipping	Enough quantity of pallet	(1) Customer's requirement/agreement	Lack of quantity	Dissatisfied customers	3	Pick up wrong Pallet	- OP pick up pallet follow label on pallet and Packing List	1	3	Risk acceptance	N/A	N/A	3	1	1	3
2. 4 slipping Defect impact labelshockwarth and requirement labelshockwarth and repulsion and requirement labelshockwarth and repulsion and requirement labelshockwarth and repulsion an	22.3 Shipping	Enough quantity of pallet	(1) Customer's requirement/agreement	Surplus of quantity	Dissatisfied customers	3	Pick up wrong Pallet	- OP pick up pallet follow label on pallet and Packing List	1	3	Risk acceptance	N/A	N/A	3	1	1	3
2.5 Shipping Detect impact label/shockwatch active Could not detect impact lab	22.4 Shipping		(3) FOV internal requirement		Reduce performance	3	Opearator skip this checking item		4	12	Risk acceptance but need monitoring the result of risk	N/A	N/A	3	1	4	12
	22.5 Shipping		(3) FOV internal requirement	Could not detect impact	Reduce performance	3	Mis-judgment	Make clear and update instruction for LOG	4	12		N/A	N/A	3	1	4	12
	22.6 Shipping	Detect cargo damaged before	(3) FOV internal requirement		Reduce performance	3	Mis-judgment	- Make clear and update instruction for LOG	4	12		N/A	N/A	3	1	4	2

Severity: An assessment of the seriousness of the effect (as listed in the previous column) of the potential failure mode to the next components, subsystem, or customer if it occurs. Severity applies to the effect only.

Occurrence: This is the likelihood that a specific cause/mechanism (as listed in the previous column) will occur. Like severity, occurrence uses a ranking number.

Detect: Assessment of the ability of the current design controls to detect a potential design weakness.

Requirement classification: sellect 1 of 3 options: (1)Customer's requirement/agreement, (2)Common standard, (3)FOV internal requirement

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POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

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FMEA'S REVISION HISTORY

Preparing	PIC	Ver	Old content	New content		
Date	FIO	vei	Old Content	Description	Reason of change	Change requester
			N/A	Add Item 5.19 Fuse & Elongation	Applying CO: 9-PR-0014-9-FO-0001-4-RC-0054	
			N/A	Add Item 6.24, 6.25, 6.26, 6.27, 6.28 Neoceram packing	Applying 4M: 4-PR-007-4-FO-0007-4-RC-0155	
			NA	Update and correction content all process for FMEA more detail	Review FMEA follow new concept from BOM	
			SUS Packing process (#13.43) Do not have failure mode:	SUS Packing process (#13.43) Add failure mode: No resin stick on SUS pipe	Follow CAR: 24-ST707	
29-Jul-24	Thang-10641 Trang-10401	2	up wrong Occurrence 2:> Final Decision: Risk acceptance but need monitoring the result of risk No Action taken	Using wrong color of marking pen-> Pick up wrong Occurrence: 3> Final Decision: Must take countermeasure and then evaluate the risk again Add action: 1. Apply checking color on Top Cap and Bottom Cap before select the marking pen for Visibility of color 2. Change the method of confirmation the mark pen (after pick up) with pre-coloring before apply whole port length. 3.Design new fixture to control sequence of usage marking pen matching with product's port fiber (coloring requirement).	Follow CAR: 24-ST702	PRE2 Manager Dao Ngoc Trung
			Final Appearance process (#17.3): Occurrence: 1 No Action taken	Final Appearance process (#17.3): Occurrence: 2> Final Decision: Risk acceptance but need monitoring the result of risk	Evaluate score follow CAR: 24-ST707	

		Final Appearance process (#17.10): Occurrence: 1 No Action taken	Final Appearance process (#17.10): Occurrence: 2> Final Decision: Must take countermeasure and then evaluate the risk again Add action taken: Apply camera for image processing to detect swap port	Action for claim fiber swap	
		QC Casing process (#18.15) Do not have failure mode: Wrong label's content	QC Casing process (#18.15): Add failure mode: Wrong label's content	Review after trouble wrong label's content CAPA-AOP-24-006	
		N/A	Add Item 21 process QC Final Packing Add Item 22 process Shipping	Correction follow QC flow chart	
TungDD - 10745 ThangHX - 10641 VietNT - 10546 LieuLTN - 10812 TrangTNT- 10401 HueDT-20246	1	-	New establish	New product	PRE3 manager
	ThangHX - 10641 VietNT - 10546 LieuLTN - 10812 TrangTNT- 10401 HueDT-20246	TungDD - 10745 ThangHX - 10641 VietNT - 10546 LieuLTN - 10812 TrangTNT- 10401 HueDT-20246	Occurrence: 1 No Action taken QC Casing process (#18.15) Do not have failure mode: Wrong label's content N/A TungDD - 10745 ThangHX - 10641 VietNT - 10546 LieuLTN - 10812 TrangTNT- 10401	Occurrence: 1 No Action taken Occurrence: 2> Final Decision: Must take countermeasure and then evaluate the risk again Add action taken: Apply camera for image processing to detect swap port OC Casing process (#18.15) Do not have failure mode: Wrong label's content OC Casing process (#18.15): Add failure mode: Wrong label's content Add Item 21 process QC Final Packing Add Item 22 process Shipping N/A TungDD - 10745 ThangHX - 10641 LicuLTN - 10812 TrangTNT- 10401 HucDT-20246 1 New establish	Occurrence: 2 —> Final Decision. Must take countermeasure and then evaluate the risk again Add action taken Occurrencesure and then evaluate the risk again Add action for claim fiber swap provessing to detect swap port OC Casing process (#18.15) Do not have failure mode: Wrong label's Add failure mode: Wrong label's content OC Casing process (#18.15) Add failure mode: Wrong label's content CAPA-AOP-24-006 Add Item 21 process QC Final Packing Add Item 22 process Shipping Ocrrection follow QC flow chart New product New establish

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