			FIBER OPTICS VIETNAM LTD.	n sheet /	2			
	Form: 4-PR-007-4-Fo-0005	ersion: 02	Page 1/1			4-Pr-007-4-Fo-0005/2		
Recor	rd No: 4-Pr-007-4-Fo-0005-4-RC-0	Prepared by: Nam HA, Chau V						
	ct (or Product) Name: Pump Combiner	Project No. (if any):						
Atten	dance: Nam HA, Chau VNB, Van PNT, Ly HC							
Distri	bute to: o PRE o QAE o MDP	o DES o PTE	o PLN o TRC			o Other:		
-	ose of meeting: Review product specification of Pump cor	mbiner product						
Comn	nent (if any):							
	fication no.: SPC3-10747(2) ence document:							
	at out all requirements from customer specification	4.1.1	46 4 1 1 1 1 1	1.6				
1.1 L	ist out all requirements from product specification, mo	emoa and man ( added re	equirement for operator's skill	Reference				
No.	Product specification, method and man requirement		Action	document (Spec No.,	PIC	Due date	Status	
140.	items		7 Kulon	page No., other source)	Tie	Due date	Status	
1	Thermal inspection follow customer specification  Table 5-1 Requirement of Optical specification	- Inspection by Thermal (Installation)	camera system (FPL	SPC3- 10747(2), item	Nam HA	21-May	Done	
	Major Item	- Calculate transmittance - Refer item 9 into 4-OP-		5				
	fiber Coating, Resin   Fiber glass area   common   CAW   56.8   [1]	Fiber Coating, Resin   PROCEDURE OF PUM   Fiber glass area   common   CAW   56.8   [1]						
	Temperature Coating, Resin rise rate Large diameter common 'CAW 16.0 [1] fiber outside the							
	reinforcement structure Bundle fiber common 'C/kW 21.5 [1]							
	outside the reinforcement structure							
	common C 80.0 [1] However, local semperature rise							
	Temperature Fibers at the location of abnormal	Fibers at the location of						
	be judged as fail. See SPC3-10749							
	Pump   Common   C   110.0   [1]							
	<ol> <li>Pump Light source with current 24.5 A, 95%NA 0.44 and power 1437W or higher with specified fiber optics.</li> </ol>							
2	Optical test condition follow customer specification	- Inspection by SLD light	t source system (FPL	SPC3-	Nam HA	10-Apr	Done	
	. MPC-I: % 80.0 [2]	Installation) - Calculate transmittance		10747(2), item 5				
	006-H		Refer item 12 into 4-OP-0507 (OPERATION ROCEDURE OF PUMP COMBINER)					
	NaC-T   0.20   51							
	AM2 at 100 °C at front MPC-1- 0.13 [3] edge of the bundle- 006 °C dide KE2466							
	Cover transmitted   MPC-1   0.13   [31   18]							
	[24] Wideband SLD light source with specified fiber optics with M2 1.05 or less, power of 270pW or more, and center wavelength of 1770m							
3	Machenical strength follow customer specification		igth by Reinforcement system	SPC3-	Nam HA	10-Apr	Done	
	Table 6-1 Tensile strength & Reinforcement tension  Item unit Seccification Conditions	- Check force by load cel - Refer item 7 into 4-OP-	-0507 (OPERATION	10747(2), item 5				
	Min typ. Max	P COMBINER)						
	Tensile strength of bundle fusion gf 270 280 290 Guaranteed by proofing splicing point before reinforcement  Applying tension for 4±1 sec							
	Reinforcement tension of bundle gf 30 35 40 fission splicing point							
4	Visual inspection follow customer specification	- Break down and make	clear into process specification	SPC3-	Chau	11-Apr	Done	
	- Fiber appearance Refer SPC3-10749 - Neoceram folllow main customer specification			10747(2), item 7	VNB			
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5	Period from inspection date to shipping date les than 12 months	- Current method: Enginer review keep stock product before shipping (form: 000-9-WI-0178-9-Fo-0001) - Improvement: Control by label soft base on set up ECS constrainst (set up process need to check waiting time at FOV, if over 1 year lable software will alarm)	SPC3- 10747(2), item 8	Chau VNB	20-Sep	On progress
6	Structure specification follow product specification  D FBG C Reinforcement structure	Make length A,B,D at QC process     Make length C at Reinforcement process and inspeciton length C at QC process	SPC3- 10747(2), item 9	Nam HA	2-May	Done
7	Dimension component  20 ± 1mm 10 ± 1mm  Large diameter fiber	- Apply cleaver (have intruction for setting position) to control length for bundle fiber & FBG fiber	SPC3- 10747(2), item 10	Nam HA	10-May	Done
8	Dimension of resin  Top view  Top view  All length units are in mm  *: reference value	- Apply template on jig for control at reinforcement process and resin dispensing	SPC3- 10747(2), item 10	Nam HA	30-May	Done
9	Dimension of resin after sealing  D: KER-4130H-UV  0.5*  Top view  1.0*  E: KE3466	- Check appearance after sealing at assembly and Final inspection (length for only reference)	SPC3- 10747(2), item 10	Nam HA	16-May	Done
10	Test report format Refer SPC3-10768 for detail	- Test report format reflect to test report form	SPC3- 10747(2), item 13	Van PNT	24-May	Done
	For areas where abnormalities in appearance are found, even though they are at the acceptable level, the location of the abnormal appearance shall be marked by attaching a specific polyimide tape to the actual fiber.	- Make clear requirement into process specificaiton	SPC3- 10747(2), item 13	Chau VNB	26-Jul	Done
12	The FBG SN and fiber lot definitions listed in the Material report are shown in Table 7-1.  Table 7-1. Defiation of FBG SN and fiber lot  Material  Fiber (Made by Fujikara)  The for : Fiber number on bolohin.  FBG (Made by Fujikara)  FBG SN : SN tagged with FBG  Post the supplier control number wetters on the actual item.  FBG (Made by Fujikara)	- Reflect to incoming process specification	SPC3- 10747(2), item 13	Chau VNB	26-Jul	Done
13	The packing material consists of an inner packing material and an outer packing material. The composition of the inner packing material is shown in Table 2-1, and the composition of the outer packing material is shown in Table 2-2.	Control by BOM list and apply label soft to control correct outer box	SPC3- 10747(2), item 14	Chau VNB	26-Jul	Done
14	The required information of Product label is shown in Table 6-1. QR Code of label specification is shown in Table 6-2. An example of a product label is shown in Figure 6-1.  FA No.   S/N Product Name  Fig. 6-1. Example of Product label  Table 7-1. Required information of Outer hos label of Outer	- Control by label master soft and cross check by process specification	SPC3- 10747(2), item 14	Chau VNB	26-Jul	Done
15	Incoming Inspection ( spec SPC3-10767 ) Table 2.1 Incoming Inspection item	Update to NCM for control Incoming require	SPC3- 10747(2), item 15	Van PNT, Nam HA	24-May	Done

	Requirement for quality assurance of Pump CMB (spec SPC3-10746)  Item 2.4 Quality record  2-4 Quality record (Traceabilty)  2-4-1 Quality record (Increability)  3-4-1 Quality record related to the items listed below and set up a management system that allows for quality audits in accordance with the preceding purgargeth.  ① Calbration records of measuring instruments.*  ② Manufacturing records (including inspection records and daily inspections)  ① Traceability of prar materials and parts  ② Defect record  ③ Records of overective actions  ④ All change record  ① Records of worker education and training  ⑤ Software and Program revision history  ③ Changes in specified cossumable materials	Update to FAM, ECS, BOM, ECS Incoming, E-NC system, CAPA soft, DMS, TRC soft	SPC3- 10746(1), item 2.4	Nam HA	24-Jul	Done
	Requirement for quality assurance of Pump CMB (spec SPC3-10746) List equipment no need calibration	Update status to FAM system	SPC3- 10746(3), item 2.4	Hiep VV	24-Jul	Done
	Requirement for quality assurance of Pump CMB (spec SPC3-10746 ) Item 6: Special process	Update to 4-Pr-006	SPC3- 10746(3), item 6	Nam HA	31-Aug	On progress
	Requirement for quality assurance of Pump CMB (spec SPC3-10746 )  Item 7: Table 2, Non-reusable case  Table 2. Non-reusable parts/material list  Parts Reinforcement Any case.  Ary case.  Although it is recommended not to reuse, but if there is a risk of inventory shortages, it can be reused under the following conditions.  If the fiber is reused, before reusing, it should be inspected for any defects in fiber appearance according to SPC3-10749 and whether it is expected to be longer after process flow than the length specified in the complete visual impection.  FBG If less than the specified fiber length in FBG pretreatment process.	Update to WI - Instruction for Nonconforming	SPC3- 10746(3), item 7	Nam HA, Chau VNB	23-Sep	On progress
1.2 L	ist out all requirements from material specification		T	T	Г	
1.2 L	ist out all requirements from material specification  Material requirement items	Action	Reference document (Spec No., page No., other source)	PIC	Due date	Status
No.		Action  Maker clear into document and udpate to DMS	document (Spec No., page No., other	PIC Nam	Due date	Status
No.	Material requirement items  Materia spec: Typical specification such as dimensions, storage conditions to be submitted when required by		document (Spec No., page No., other source) SPC3- 10747(2), item			
No.	Material requirement items  Materia spec: Typical specification such as dimensions, storage conditions to be submited when required by customs or other external parties	Maker clear into document and udpate to DMS	document (Spec No., page No., other source) SPC3- 10747(2), item			
No.	Material requirement items  Materia spec: Typical specification such as dimensions, storage conditions to be submitted when required by	Maker clear into document and udpate to DMS	document (Spec No., page No., other source) SPC3- 10747(2), item			

2	Storage environmental specification follow customer specification ( Room temperater, Huminity and absolute huminity)  Table 8-2 Storage conditions    Norm		cr, Huminity and ty)  s  Comment tax  5.0  9.0  12  Period from inspection	- Apply clean room condition , update to 4-Pr-014 - Temperature & humidity are controled by online sensor - Stopped process if fail	SPC3- 10747(2), item 8	Chau VNB	2-May	Done	
2. Oth	er requirements	(not inc	lude in s	pecification)					
No.	Other requirement items		items	Action	Reference document (Spec No., page No., other source)	PIC	Due date	Status	
									PRE2 controlled
"Conf	"Confidential: FOV's property, do not take out without FOV BOM's approval"								