

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

☐ Design FMEA

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Part Certification

	System	X	Subsystem		Component	Page 1		FMEA Number COMPONENTS ELECTRONIC ASSY (e-FMEA DOC ID 5443752)											
Part Number (Delphi:35021687)						Design or Process Responsibility CHAVARRIA, VICTOR		Prepared by SIBAMEA, PEDRO N		Telephone # +52 844 4115500									
Model Year(s)/Vehicle(s) COMPONENT						Key Date 2021-10-06 00:00:00		Original FMEA Date 2016-02-27 00:00:00		FMEA Revision Date 2021-09-20 20:10:49									
Core Team CHAVARRIA, VICTOR, INGENIERO DE PROCESOS +52 844 4115500 GARZA, RAQUELINE V, INDUSTRIAL ENGINEERING PLANT 9800 CENTEC 1 +52 844 4115500 MEDINA, EDUARDO, null null GARCIA, ABRIL, QUALITY +52 844 4115500 RAMIREZ, FABIAN HORACIO, QUALITY ENGINEER +52 844 4115500 CARRANZA, DAVID N, TEC AMBIENTAL PLANT 9800 CENTEC 1 +52 844 4115500 ZARTUCHE, LUIS, COORDINADOR DE MATERIALES null SIBAMEA, PEDRO N, INDUSTRIAL ENGINEER PLANT 9800 CENTEC 1 +52 844 4115500 DOMINGUEZ, SALOME, RELIABILITY SUPERVISOR +52 REYNA, ANA LAURA, ASSOC CUSTOMER SATISFACTION ADMIN null										Supervisor's Approval STRINGEL, OSCAR									
										Action Results									
Item/Process Function Requirements		Potential Failure Mode	Potential Effect(s) of Failure	Severity	Class	Potential Cause(s)/ Mechanism(s) of Failure	Occ	Current Design/Process Controls		Det	RPN	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	Severity	Class	Det	RPN	
10) RECEIVING MATERIAL IN DOCKS		SUSPECT MATERIAL	ASSEMBLY PROBLEMS	6	N/A	SUPPLIER PROBLEMS	2	(D) -VISUAL INSPECTION TO VERIFY THE CONTAINER CONDITION ACCORDING WORK INSTRUCTION - MATERIALS DEPARTMENT INSPECTS AND SEGREGATE DAMAGE MATERIAL -INSPECTION BY INCOMING INSPECTION		7	84	None							
10.1)		DAMAGED COMPONENT	-RAW MATERIAL CAN NOT BE USED - ASSEMBLY PROBLEM	6	N/A	-INCORRECT HANDLING DURING TRANSPORTATION -OPEN CONTAINER	2	(P) -CLOSED CONTAINER AND BOX -DOCK OPERATOR (D)VERIFY CONTAINER OR BOX IN GOOD CONDITION -VISUAL AID DISPLAYED		7	84	None							
10.11)		DAMAGED MATERIAL	ASSEMBLY PROBLEMS	6	N/A	IMPROPER MATERIAL HANDLING	2	(D) -VISUAL INSPECTION TO VERIFY THE CONTAINER CONDITION ACCORDING WORK INSTRUCTION - MATERIALS DEPARTMENT INSPECTS AND SEGREGATE DAMAGE MATERIAL -INSPECTION BY INCOMING INSPECTION		7	84	None							
20) VISUAL INSPECTION OF MATERIAL RECEIVED TO VERIFY PHYSICAL CONTAINER CONDITION AND COMPARE AGAINST MANIFEST		MISSING LABEL	RAW MATERIAL CAN NOT BE USED	4	N/A	-INCORRECT HANDLING DURING TRANSPORTATION -MISSING LABEL FROM SUPPLIER	2	(D) VISUAL INSPECTION AGAINST MANIFEST ACCORDING TO WORK INSTRUCTION		7	56	None							
20.1)		ILLEGIBLE LABEL	RAW MATERIAL CAN NOT BE USED	4	N/A	-DAMAGE DURING TRANSPORTATION -PRINTING PROBLEMS	2	(D) VISUAL INSPECTION AGAINST MANIFEST AND MATERIAL IS SEGREGATED ACCORDING THE WORK INSTRUCTION		6	48	None							
20.11)		MISSING MANIFESTED CONTAINER	-AFFECTS INVENTORIES -INTERRUPTED MANUFACTURING FLOW	4	N/A	MISSING FROM SUPPLIER -LOST DURING TRANSPORTATION	2	(D) VISUAL INSPECTION WITH MANIFEST, DISCREPANCY IS GENERATED ACCORDING THE WORK INSTRUCTION - SCANNING		7	56	None							
20.12)		DAMAGE CONTAINER	SUSPECT MATERIAL	4	N/A	-DAMAGE DURING TRANSPORTATION -INCORRECT HANDLING DURING TRANSPORTATION -BAD STACKED	2	(D) -VISUAL INSPECTION TO VERIFY THE CONTAINER CONDITION ACCORDING WORK INSTRUCTION - MATERIALS INSPECTS AND SEGREGATE DAMAGE MATERIAL -INSPECTION BY INCOMING INSPECTION		7	56	None							
20.13)		MATERIAL UNDER QUALITY ALERT	SUSPECT MATERIAL	4	N/A	-SUPPLIER REPORTS -MATERIAL OUT OF SPECIFICATION	2	(D) VISUAL INSPECTION ACCORDING TO WORK INSTRUCTION AND MATERIAL IS SEGREGATED TO BE SORTED OR RETURNED TO THE SUPPLIER QUALITY ALERT LIST FOR SUSPECT MATERIAL		8	64	None							
20.14)		DAMAGED MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING INCORRECT FROM SUPPLIER	2	(D) VISUAL INSPECTION TO VERIFY THE CONTAINER CONDITION ACCORDING WORK INSTRUCTION - MATERIALS DEPARTMENT INSPECTS AND SEGREGATE DAMAGE MATERIAL -INSPECTION BY INCOMING INSPECTION		8	64	None							
25) CHECK OF THE AMOUNT OF RAW MATERIAL IN PARTS UNIQUE BOUGHT		MISSING VERIFICATION	DISCREPANCY IN INVENTORY	4	N/A	SUPPLIER	2	(P) INSTRUCTION, WORK INTRUCTION OPERADOR CERTIFICATE		7	56	None							
30) LOAD MATERIAL IN SYSTEM (SAP/QAS)		MISSING LOAD	-DISCREPANCY IN THE INFORMATION - AFFECTS INVENTORIES	4	N/A	-IMPROPER INFORMATION HANDLING -MISSING OPERATION	2	(P) -WORK INSTRUCTION FOR MATERIALS OPERATOR -(D)SCANNING OF THE MATERIAL		7	56	None							
40) MOVE MATERIAL FROM RAMP TO SUPERMARKET AREA OR MATERIAL SUSPECT/ UNDER QUALITY ALERT TO INCOMING INSPECTION		DAMAGED MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) -OPERATOR METHOD		8	64	None							
40.1)		MIXED MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) -OPERATOR METHOD -CERTIFICATED OPERATOR		8	64	None							
41) MOVE MATERIAL SUSPECT OR UNDER QUALITY ALERT TO INCOMING INSPECTION AREA		MIXTED MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	-INCORRECT HANDLING OF THE MATERIAL	2	(P) WORK INSTRUCTION FOR MATERIALS OPERATOR		8	64	None							
41.1)		DAMAGE MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) WORK INSTRUCTION FOR MATERIALS OPERATOR		8	64	None							
42) MATERIAL ARE INSPECTED IN INCOMING INSPECTION AREA		DAMAGE OR MISSING LABEL	PROBLEM TO SCAN THE CUSTOMER INFORMATION	4	N/A	-INCORRECT HANDLING - PROBLEMS OF SUPPLIER	2	(D) -VISUAL INSPECTION BY OPERATOR OF INCOMING INSPECTION AREA		7	56	None							
42.11)		DAMAGE CONTAINER	SUSPECT MATERIAL	4	N/A	DAMAGE DURING TRANSPORTATION - INCORRECT	2	(D) VISUAL INSPECTION TO VERIFY THE CONTAINER CONDITION ACCORDING WORK		7	56	None							

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Part Number (Delphi:35021687)						Design or Process Responsibility CHAVARRIA, VICTOR		Prepared by SIBAMEA, PEDRO N				Telephone # +52 844 4115500					
Model Year(s)/Vehicle(s) COMPONENT						Key Date 2021-10-06 00:00:00		Original FMEA Date 2016-02-27 00:00:00				FMEA Revision Date 2021-09-20 20:10:49					
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Item/Process Function Requirements		Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s/ Mechanism(s) of Failure	O c c	Current Design/Process Controls	D e t	R P N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t	
						HANDLING - BOXES WRONG ALLOCATED		INSTRUCTION -MATERIALS INSPECTS AND SEGREGATE DAMAGE MATERIAL -VISUAL AID DISPLAYED -INSPECTION BY INCOMING INSPECTION									
42.13)	DAMAGED MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING - INCORRECT FROM SUPPLIER	2	(P) WORK INSTRUCTION FOR MATERIALS OPERATOR	7	56	None							
42.14)	MATERIAL OUT SPECIFICATIONS (ATTRIBUTES)	RAW MATERIAL CAN NOT BE USED	4	N/A	INCORRECT FROM SUPPLIER	2	(D) VERIFICATION ACCORDING THE DRAWING VISUAL INSPECTION	7	56	None							
43) MATERIAL INSPECTED IS MOVED RAMPS OR MNC IS SCRAPED OR RETURNED TO THE SUPPLIER	MIXED MATERIAL	-RAW MATERIAL CAN NOT BE USED - ASSEMBLY PROBLEM	4	N/A	-INCORRECT HANDLING DURING TRANSPORTATION -OPEN CONTAINER	2	(D) CLOSED CONTAINER AND BOX -DOCK OPERATOR VERIFY CONTAINER OR BOX IN GOOD CONDITION -VISUAL AID DISPLAYED	7	56	None							
43.1)	MATERIAL WITH OUT IDENTIFICATION	-RAW MATERIAL CAN NOT BE USED - ASSEMBLY PROBLEM	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) WORK INSTRUCTION	8	64	None							
50) STORE MATERIAL IN SUPERMARKET / SHOP STOCK AREA	WRONG MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	INCORRECT ALLOCATION -SIMILAR COMPONENT	2	(P) WORK INSTRUCTION FOR MATERIALS OPERATOR	8	64	None							
50.1)	DAMAGE MATERIAL	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) WORK INSTRUCTION FOR MATERIALS OPERATOR	8	64	None							
50.12)	MATERIAL MISSING ALLOCATE	RAW MATERIAL CAN NOT BE USED	4	N/A	P/N NEWS -LACK OF CAPACITY IN SUPERMARKET	2	(P) OPERATOR METHOD STORE -SAP SYSTEM -MAP OF LOCATION	8	64	None							
50.13)	MATERIAL WRONG ALLOCATE	RAW MATERIAL CAN NOT BE USED	4	N/A	IMPROPER MATERIAL HANDLING	2	(P) OPERATOR METHOD STORE -SAP SYSTEM -MAP OF LOCATION	8	64	None							
60) PRINT SHIPPING LABELS AND PROCESS CARD ACCORDING TO THE REQUERIMENTS	WRONG INFORMATION (LABEL)	WRONG DESTINY CUSTOMER INSATISFACTION	5	N/A	WRONG INFORMARTION LOADED	2	(D) -VISUAL INSPECTION BY MATERIALS OPERATOR	8	80	None							
60.1)	WRONG INFORMATION (PROCESS CARD)	WRONG DESTINY CUSTOMER INSATISFACTION	5	N/A	WRONG INFORMARTION LOADED	2	(D) -VISUAL INSPECTION BY MATERIALS OPERATOR	8	80	None							
60.11)	ILLEGIBLE LABEL	PROBLEM TO SCAN THE CUSTOMER INFORMATION	5	N/A	PRINTING PROBLEM	2	(D) VISUAL INSPECTION BY MATERIALS OPERATOR	8	80	None							
60.12)	DAMAGED LABEL	PROBLEMS TO SCAN THE SHIPPING LABEL	5	N/A	IMPROPER HANDLING	2	(D) VISUAL INSPECTION BY MATERIALS OPERATOR	8	80	None							
70) MOVE SHIPPING LABELS TO WORK STATION (WHEN APPLY)	SHIPPING LABEL MIXED	ASSEMBLY PROBLEM	4	N/A	IMPROPER HANDLING	2	(P) OPERATOR METHOD -D-VISUAL INSPECTION OF SERVICE OPERATOR	8	64	None							
70.1)	MISSING SHIPPING LABEL	ASSEMBLY CAN NOT BE BUILD	4	N/A	INCORRECT HANDLING LOOSING DURING TRANSPORTATION	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	64	None							
70.11)	DAMAGE LABEL	LABEL CAN NOT BE USED	5	N/A	INCORRECT HANDLING	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	80	None							
80) BUILD THE KIT ACCORDING TO THE REQUIREMENTS (WHEN APPLY)	WRONG TOOL	-ASSEMBLY PROBLEM	4	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD	7	56	None							
80.1)	WRONG MATERIAL	-ASSEMBLY PROBLEM	5	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD	8	80	None							
80.11)	WRONG SHIPPING LABEL	-ASSEMBLY PROBLEM	5	N/A	MISS OPERATION	2	(P) OPERATOR METHOD	8	80	None							
80.12)	WRONG IDENTIFICATION OF THE MATERIAL	-ASSEMBLY PROBLEM	5	N/A	INCORRECT HANDLING	2	(P) -OPERATOR METHOD	8	80	None							
80.13)	MIXED MATERIAL	-ASSEMBLY PROBLEM	5	N/A	MISS OPERATION	2	(P) OPERATOR METHOD	8	80	None							
80.14)	WRONG METHOD	MANUFACTURING FLOW INTERRUPTED INCORRECT ASSEMBLY	6	N/A	MISS OPERATION	2	(P) OPERATOR METHOD	8	96	None							
85) TO REQUEST SHIPPING LABEL FROM KIT PART NUMBER (WHEN APPLY)	WRONG INFORMATION	MANUFACTURING FLOW INTERRUPTED	6	N/A	MISS OPERATION	2	(P) OPERATOR METHOD	7	84	None							
90) MOVE MATERIAL, AND TOOL FROM KIT'S CENTER TO WORK STATION ACCORDING TO THE RFOLUIRMENTS, (W/HEN &PPI Y)	DAMAGED COMPONENT	ASSEMBLY PROBLEM	5	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION - OPERATOR METHOD	8	80	None							

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Action Results															
Item/Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	O c c	Current Design/Process Controls	D e t N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t N	
90.1)	DAMAGED TOOL	ASSEMBLY PROBLEM	5	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION - OPERATOR METHOD	8 80	None						
90.11)	DAMAGED SHIPPING LABEL	SHIPPING LABEL CAN NOT BE USED	5	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION - OPERATOR METHOD	8 80	None						
100) MOVE MATERIAL, PACKING MATERIAL AND TOOL OF THE P/N CHANGE FROM WORK STATION TO KIT'S CENTER OR PACKING CAR (WHEN APPLY)	DAMAGED COMPONENT	ASSEMBLY PROBLEM	5	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION - OPERATOR METHOD	8 80	None						
100.1)	DAMAGED TOOL	ASSEMBLY PROBLEM	5	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION - OPERATOR METHOD	8 80	None						
105) TRANSFER MATERIAL FROM SUPERMARKET AND SHOP STOCK SLOCK (SLOCK 1) TO WIP SLOCK (SLOCK 2) IN SAP/QAS SYSTEM (SCANNING)	MISSING SCANNING	AFFECTED INVENTORY MANUFACTURING FLOW INTERRUPTED	4	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD	7 56	None						
105.1)	MATERIAL WITH OUT IDENTIFICATION	MANUFACTURING INTERRUPTED FLOW	4	N/A	INCORRECT HANDLING OF THE MATERIAL	2	(P) -OPERATOR METHOD	7 56	None						
110) MOVE COMPONENT FROM SUPERMARKET, PARTS PURCHASED SHOP STOCK AND MOLDING SHOP STOCK AREA TO WORK STATION	DAMAGED COMPONENT	ASSEMBLY PROBLEM	4	N/A	INCORRECT HANDLING DURING TRANSPORTATION	2	(P) USE OF CAR FOR TRANSPORTATION (D)- SERVICE OPERATOR VERIFY CONTAINER GOOD CONDITION PERMITTED AMOUNT OF STACK MATERIAL IS INDICATED TO SERVICE	8 64	None						
110.1)	MIXED COMPONENT	-RAW MATERIAL CAN NOT BE USED - ASSEMBLY PROBLEM	4	N/A	-INCORRECT HANDLING DURING TRANSPORTATION	2	(P) -SERVICE OPERATOR METHOD	8 64	None					8	
110.11)	WRONG COMPONENT	-RAW MATERIAL CAN NOT BE USED - ASSEMBLY PROBLEM	4	N/A	-INCORRECT HANDLING DURING TRANSPORTATION	2	(P) -SERVICE OPERATOR METHOD	8 64	None						
140) MOVE BOXES, RETURNABLE CONTAINERS FROM SUPERMARKET AREA TO WORK STATION	DAMAGE CONTAINER	CONTAINER CAN NOT BE ISED	4	N/A	INCORRECT HANDLING	2	(P) -TRANSPORTATION IN CARS -OPERATOR METHOD	8 64	None						
140.1)	DIRTY CONTAINER	CONTAINER CAN NOT BE USED	4	N/A	INCORRECT HANDLING	2	(P) CONTAINER MUST BE CLEAN BY MATERIAL S OPERATOR BEFORE BE USED ACCORDING TO THE OPERATOR METHOD	8 64	None						
140.11)	WRONG CONTAINER OR BOX	CONTAINER CAN NOT BE USED	4	N/A	MISS OPERATION	2	(P) -MATERIAL OPERATOR METHOD	8 64	None						
145) MOVE FINISHED GOOD FROM INCOMPLETE CONTAINER AREA TO WORK STATION (WHEN APPLY)	INCOMPLETE FINISH GOOD CONTAINER INVENTORY HIGH	OVER STOCK	4	N/A	MISS OPERATION	2	(P) -WORK METHOD	8 64	None						
150) VERIFICATION OF SET-UP BY MANUFACTURING	INCORRECT VERIFICATION	MANUFACTURING FLOW INTERRUPTED	4	N/A	INCORRECT INFORMATION USE	2	(D) VERIFICATION OF SET-UP ROUTINE	8 64	None						
150.1)	MISSING METHOD	INTERRUPTED MANUFACTURING FLOW	6	N/A	INCORRECT HANDLING OF METHOD	2	(D) -MANUFACTURING INSPECTION	8 96	None						
150.2)	WRONG OR BAD STATE METHOD	INTERRUPTED MANUFACTURING FLOW	6	N/A	MISS OPERATION	2	(D) -MANUFACTURING INSPECTION	8 96	None						
150.3)	NOT RELEASED METHODS	INTERRUPTED MANUFACTURING FLOW	6	N/A	MISS OPERATION	2	(D) -MANUFACTURING INSPECTION	8 96	None						
150.4)	ASSEMBLY OUT SPECIFICATIONS (ATRIBUTES)	MATERIAL CAN NOT BE USE	6	N/A	INCORRECT FROM SUPPLIER	2	(P) OPERATOR METHOD TRAINING OPERATOR	8 96	None						
150.5)	WRONG OR DAMAGE TOOL	ASSEMBLY PROBLEMS	6	N/A	MISS OPERATION INCORRECT HANDLING OF THE TOOL	2	(P) OPERATOR METHOD TRAINING OPERATOR	8 96	None						
150.51)	WRONG OR DAMAGE EQUIPMENT	ASSEMBLY PROBLEMS	6	N/A	MISS OPERATION INCORRECT HANDLING OF THE TOOL	2	(D) OPERATOR VERIFICATION OF SET-UP ROUTINE	8 96	None						
150.6)	NOT IDENTIFIED CONTAINER	MATERIAL CAN NOT BE USED	4	N/A	IMPROPER HANDLING OF THE MATERIAL MISS OPERATION	2	(P) OPERATOR METHOD	8 64	None						
160) PLACE SHIPPING LABEL ON CONTAINER/BOX	WRONG LABEL	MISS ID-CUSTOMER INSATISFACTION	4	N/A	MISS OPERATION, OPERATOR DOES NOT VERIFY THE SHIPPING LABEL AGAINTS THE METHOD - SIMILAR COMPONENT	2	(P) OPERATOR METHOD -D -MANUFACTURING VERIFY -Q.C FINAL AUDIT	8 64	None						

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Item/Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	Sev	Clauses	Potential Cause(s)/ Mechanism(s) of Failure	Occ	Current Design/Process Controls	Det	RPN	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	Sev	Occ	Det	RPN
160.11)	DAMAGED LABEL	SHIPPING LABEL CAN NOT BE USED - MANUFACTURING FLOW INTERRUPTED	4	N/A	-INCORRECT HANDLING - INCORRECT PRINTING	2	(D) MANUFACTIRING INSPECTION -D- Q.C FINAL VERIFY -VPS IN SHIPPING LABEL PRINTING AREA	8	64	None						
160.12)	WRONG PLACED LABEL	MANUFACTURING FLOW INTERRUPTED	4	N/A	MISS OPERATION	2	(D) Q.C FINAL INSPECTION OPERATOR METHOD	8	64	none						
162) SCANNING, PROCESS CARD, TOOL NEST,COMPONENTS, ID OPERATOR AND SHIPPING LABEL	WRONG WORK METHOD	INTERRUPTED MANUFACTURING FLOW - ASSEMBLY PROBLEM	4	N/A	MISS OPERATION	2	(P) OPERATOR METHOD -(D)SCANNING WITH ELECTRONIC DETECTION	8	64	None						
162.1)	WRONG TOOL NEST	INTERRUPTED MANUFACTURING FLOW - ASSEMBLY PROBLEM	4	N/A	MISS OPERATION	2	(P) OPERATOR METHOD -(D)SCANNING WITH ELECTRONIC DETECTION	8	64	None						
162.2)	WRONG COMPONENT	INTERRUPTED MANUFACTURING FLOW - ASSEMBLY PROBLEM	4	N/A	MISS OPERATION	2	(P) OPERATOR METHOD -(D)SCANNING WITH ELECTRONIC DETECTION	8	64	None						
162.3)	WRONG SHIPPING LABEL	INTERRUPTED MANUFACTURING FLOW - ASSEMBLY PROBLEM	4	N/A	MISS OPERATION	2	(P) OPERATOR METHOD -(D)SCANNING WITH ELECTRONIC DETECTION	8	64	None						
180) ASSEMBLY CABLE SEAL ON RETAINER	DAMAGED RETAINER	ASSEMBLY PROBLEMS	5	N/A	IMPROPER MATERIAL HANDLING - BROKEN FROM SUPPLIER - IMPROPER PACKAGING	2	(P) OPERATOR METHOD -D- MANUFACTURING INSPECTION -AUDIT PRODUCT OF FINAL ASSEMBLY-FIRST SAMPLE BY MANUFACTURING-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE) - QUALITY VISUAL AIDS	7	70	None						
180.1)	CONTAMINATED RETAINER BY FOOD	ASSEMBLY PROBLEMS	5	N/A	-FOOD AND DRINK IN WORK AREA - LACK OF DISCIPLINE	2	(D) OPERATOR HAS AN SPECIFIC AREA AND TIME FOR LUNCH AWAY OF THE WORK AREA - VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)	8	80	None						
180.11)	DAMAGE CABLE SEAL	ASSEMBLY PROBLEMS	7	N/A	IMPROPER MATERIAL HANDLING	2	(D) MANUFACTURING INSPECTION -AUDIT PRODUCT OF FINAL ASSEMBLY-VERIFICATION OF MATERIAL BY Q.C.(SYSTEM AVE)OPERATOR METHOD -QUALITY VISUAL AIDS - VISION SYSTEM	5	70	None						
180.12)	WRONG CABLE SEAL	ASSEMBLY PROBLEMS	7	N/A	IMPROPER MATERIAL HANDLING - INCORRECT FROM SUPPLIER	2	(P) OPERATOR METHOD -D-MANUFACTURING INSPECTION -FIRST SAMPLE RELEASED -TOOL NEST-AUDIT PRODUCT OF FINAL ASSEMBLY- VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE) -CCA SYSTEM	6	84	None						
180.13)	BAD ASSEMBLED CABLE SEAL	ASSEMBLY PROBLEMS	7	N/A	- MISS OPERATION - WORN RETAINER - DAMAGED RETAINER	2	(P) -OPERATOR METHOD -D- MANUFACTURING INSPECTION -TOOL NEST-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT FINAL ASSEMBLY -TOOLING WHIT ELECTRONIC DETECTION -VISION SYSTEM	5	70	None						
180.131) PN: 15513475 DPTS: 435632 CUSTOMER: APTIV MOCHIS OWNER: ANA REYNA	BAD ASSEMBLED CABLE SEAL (CRUSED CABLE SEAL ON CONNECTOR)	ASSEMBLY PROBLEMS	7	N/A	- MISS OPERATION - WORN RETAINER - DAMAGED RETAINER	3	(P) -OPERATOR METHOD -D- MANUFACTURING INSPECTION -TOOL NEST-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT FINAL ASSEMBLY -TOOLING WHIT ELECTRONIC DETECTION -VISION SYSTEM	5	105	1.MANUFACTURE OF NEW TOOL GUIDE FOR AVOID CONNECTOR MOVEMENTS 2.CREATION OF NEW VISION PROGRAM FOR REPORTED FAILURE 3.POKAYOKE FROM KAIZEN TO VERTICAL PRESSES	1. VICTOR CHAVARRIA 2. SANJUAN HERNANDEZ 3. VICTOR CHAVARRIA 2021-09-10 00:00:00	1.MANUFACTURE OF NEW TOOL GUIDE FOR AVOID CONNECTOR MOVEMENTS 2.CREATION OF NEW VISION PROGRAM FOR REPORTED FAILURE 3.POKAYOKE FROM KAIZEN TO VERTICAL PRESSES	7	2	5	70
180.132)	BAD ASSEMBLED CABLE SEAL (CRUSED CABLE SEAL ON CONNECTOR)	ASSEMBLY PROBLEMS	7	N/A	- MISS OPERATION - WRONG CABLE SEAL - DAMAGED TOOL NEST GUIDES - MAL ADJUSTED VISION SYSTEM - MISS OPERATION MAINTENANCE METHOD -	2	(P) -OPERATOR METHOD -D- MANUFACTURING INSPECTION -TOOL NEST-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT FINAL ASSEMBLY -TOOLING WHIT ELECTRONIC DETECTION -VISION SYSTEM - TOOL NEST GUIDES AND PRESS	5	70	None						
180.14)	CABLE SEAL CONTAMINATED BY FOOD	ASSEMBLY PROBLEMS - INTERMITENCE	5	N/A	FOOD AND DRINK IN WORK AREA - LACK OF DISCIPLINE	2	(P) OPERATOR HAS AND SPECIFIC AREA AND TIME FOR LUNCH AWAY OF THE WORK AREA	8	80	None						
180.16)	MISSING CABLE SEAL	ASSEMBLY PROBLEMS	7	N/A	- MISS OPERATION	2	(P) -OPERATOR METHOD - MANUFACTURING INSPECTION -VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY -FIRST SAMPLE RELEASED -VISION SYSTEM	5	70	None						

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

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Part Certification

	System	X	Subsystem		Component		Page 1	FMEA Number COMPONENT'S ELECTRONIC ASSY (e-FMEA DOC ID 5443752)								
Part Number (Delphi:35021687)						Design or Process Responsibility CHAVARRIA, VICTOR		Prepared by SIBAMEA, PEDRO N				Telephone # +52 844 4115500				
Model Year(s)/Vehicle(s) COMPONENT						Key Date 2021-10-06 00:00:00		Original FMEA Date 2016-02-27 00:00:00				FMEA Revision Date 2021-09-20 20:10:49				
Core Team CHAVARRIA, VICTOR, INGENIERO DE PROCESOS +52 844 4115500 GARZA, RAQUELINE V, INDUSTRIAL ENGINEERING PLANT 9800 CENTEC 1 +52 844 4115500 MEDINA, EDUARDO, null null GARCIA, ABRIL, QUALITY +52 844 4115500 RAMIREZ, FABIAN HORACIO, QUALITY ENGINEER +52 844 4115500 CARRANZA, DAVID N, TEC AMBIENTAL PLANT 9800 CENTEC 1 +52 844 4115500 ZARTUCHE, LUIS, COORDINADOR DE MATERIALES null SIBAMEA, PEDRO N, INDUSTRIAL ENGINEER PLANT 9800 CENTEC 1 +52 844 4115500 DOMINGUEZ, SALOME, RELIABILITY SUPERVISOR +52 REYNA, ANA LAURA, ASSOC CUSTOMER SATISFACTION ADMIN null								Supervisor's Approval STRINGEL, OSCAR								
												Action Results				
Item/Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	O c c	Current Design/Process Controls	D e t	R P N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t	R P N
180.2)	WRONG RETAINER	ASSEMBLY PROBLEMS	7	N/A	-IMPROPER MATERIAL HANDLING - SIMILAR P/N	2	(P) OPERATOR METHOD -D-MANUFACTURING INSPECTION - AUDIT PRODUCT OF FINAL ASSEMBLY-FIRST SAMPLE BY MANUFACTURING IN EVERY STANDAR PACK - TOOL NEST-VERIFIACATION OF MATERIAL BY Q.C. (SYSTEM AVE) -CCA SYSTEM -VISION SYSTEM	5	70	None						
180.3)	BAD ORIENTED RETAINER	ASEMBLY PROBLEMS	8	N/A	MISSING OPERATION	2	(P) OPERATOR METHOD - MANUFACTURING INSPECTION -VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY -FIRST SAMPLE RELEASED -VISION SYSTEM	5	80	None						
180.4)	MISSING RETAINER	ASEMBLY PROBLEMS	7	N/A	- MISS OPERATION	2	(P) -OPERATOR METHOD - MANUFACTURING INSPECTION -VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY -FIRST SAMPLE RELEASED -TOOL NEST -VISION SYSTEM	5	70	None						
200) ASSEMBLY CONNECTOR ON SUBASSEMBLY	DAMAGE CONNECTOR	ASEMBLY PROBLEMS	7	N/A	IMPROPER MATERIAL HANDLING - DAMAGE FROM SUPPLIER	2	(D) MANUFACTURING INSPECTION - VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY- FIRST SAMPLE RELEALSE -PRESS TOOL	7	98	None						
200.1)	WRONG CONNECTOR	ASSEMBLY PROBLEMS	7	N/A	INCORRECT MATERIAL HANLING - MIX MATERIAL	2	(P) -OPERATOR METHOD -MANUFACTURING INSPECTION -Q.C. FINAL INSPECTION-VISUAL - VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE) AUDIT PRODUCT OF FINAL ASSEMBLY - CCA SYSTEM	7	98	None						
200.11)	BAD ASSEMBLED RETAINER AND CABLE SEAL	ASEMBLY PROBLEMS	7	N/A	MISSING OPERATION. INCORRECT TOOL NEST	2	(P) -OPERATOR METHOD - MANUFACTURING INSPECTION -VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY -FIRST SAMPLE RELEASED - ELECTRONIC DETECTION -TOOL NEST -TOOL PRESS (POKAYOKE)	6	84	None						
200.2)	RETAINER NOT LOCKED IN 2 PADLOCKS	ASEMBLY PROBLEMS	8	N/A	MISSING OPERATION. INCORRECT TOOL NEST	2	(P) -OPERATOR METHOD -PRESS TOOL NEST TO ASURE THE CORRECT ASSEMBLY (IF APPLY) -D -MANUFACTURING INSPECTION - VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY - TOOLING WHIT ELECTRONIC DETECTION - VISION SYSTEM	5	80	None						
200.3)	CONTAMINATED CONNECTOR BY FOOD	ASSEMBLY PROBLEMS - INTERMITENCE	6	N/A	FOOD AND DRINK IN WORK AREA - LACK OF DISCIPLINE	2	(P) OPERATOR HAS AND SPECIFIC AREA AND TIME FOR LUNCH AWAY OF THE WORK AREA	8	96	None						
200.4)	MISSING RETAINER AND CABLE SEAL	ASSEMBLY PROBLEMS	5	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD --D - MANUFACTURING INSPECTION -TOOLING WHIT ELECTRONIC DETECTION-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY. -VISION SYTEM	4	40	None						
210) ASSEMBLY PLR	DAMAGE PLR	ASSEMBLY PROBLEMS	7	N/A	IMPROPER MATERIAL HANDLING	2	(D) MANUFACTURING INSPECTION -AUDIT PRODUCT OF FINAL ASSEMBLY-VERIFICATION OF MATERIAL BY Q.C.(SYSTEM AVE)OPERATOR METHOD	7	98	None						
210.1)	WRONG PLR	ASSEMBLY PROBLEMS	7	N/A	IMPROPER MATERIAL HANDLING - INCORRECT FROM SUPPLIER	2	(D) OPERATOR METHOD -D-MANUFACTURING INSPECTION -FIRST SAMPLE RELEASED -TOOL NEST-AUDIT PRODUCT OF FINAL ASSEMBLY- VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-CCA SYSTEM -TOOLING WHIT ELECTRONIC DETECTION	7	98	None						
210.2)	BAD ASSEMBLED PLR	ASSEMBLY PROBLEMS	6	N/A	MISS OPERATION - WORN FIXTURE - DAMAGE FIXTURE - INCORRECT TOOLING - PLR OUT OF SPECIFICATION	2	(P) -OPERATOR METHOD -D- MANUFACTURING INSPECTION -TOOL NEST-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT FINAL ASSEMBLY-ORDER OF PROGRAMED WORK OF MAINTENANCE - TOOLING WHIT ELECTRONIC DETECTION	6	72	None						
210.3)	PLR FULLY SEATED	ASSEMBLY PROBLEMS	6	N/A	PLR OUT OF SPECIFICATION - WORN FIXTURE - DAMAGE FIXTURE	2	(P) -OPERATOR METHOD - -D- MANUFACTURING INSPECTION -TOOL NEST- VERIFICATION OF MATERIALBY Q.C.(SYSTEM	6	72	None						

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

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Part Certification

	System	X	Subsystem		Component		Page 1	FMEA Number COMPONENTS ELECTRONIC ASSY (e-FMEA DOC ID 5443752)								
Part Number (Delphi:35021687)						Design or Process Responsibility CHAVARRIA, VICTOR		Prepared by SIBAMEA, PEDRO N			Telephone # +52 844 4115500					
Model Year(s)/Vehicle(s) COMPONENT						Key Date 2021-10-06 00:00:00		Original FMEA Date 2016-02-27 00:00:00			FMEA Revision Date 2021-09-20 20:10:49					
Core Team CHAVARRIA, VICTOR, INGENIERO DE PROCESOS +52 844 4115500 GARZA, RAQUELINE V, INDUSTRIAL ENGINEERING PLANT 9800 CENTEC 1 +52 844 4115500 MEDINA, EDUARDO, null null GARCIA, ABRIL, QUALITY +52 844 4115500 RAMIREZ, FABIAN HORACIO, QUALITY ENGINEER +52 844 4115500 CARRANZA, DAVID N, TEC AMBIENTAL PLANT 9800 CENTEC 1 +52 844 4115500 ZARTUCHE, LUIS, COORDINADOR DE MATERIALES null SIBAMEA, PEDRO N, INDUSTRIAL ENGINEER PLANT 9800 CENTEC 1 +52 844 4115500 DOMINGUEZ, SALOME, RELIABILITY SUPERVISOR +52 REYNA, ANA LAURA, ASSOC CUSTOMER SATISFACTION ADMIN null										Supervisor's Approval STRINGEL, OSCAR						
Action Results																
Item/Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s)/ Mechanism(s) of Failure	O c c	Current Design/Process Controls	D e t	R P N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t	R P N
							AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY- FIRST SAMPLE RELEASED -TOOLING WHIT ELECTRONIC DETECTION. -TOOL NEST									
210.4)	PLR CONTAMINATED BY FOOD	ASSEMBLY PROBLEMS - INTERMITENCE	6	N/A	FOOD AND DRINK IN WORK AREA - LACK OF DISCIPLINE	2	(P) OPERATOR HAS AND SPECIFIC AREA AND TIME FOR LUNCH AWAY OF THE WORK AREA	8	96	None						
210.5)	MISSING PLR	ASSEMBLY PROBLEMS	6	N/A	- MISS OPERATION - PLR OUT OF SPECIFICATION - WRONG TOOL	2	(P) OPERATOR METHOD - MANUFACTURING INSPECTION -TOOLING WITH ELECTRONIC DETECTION-VERIFICATION OF MATERIAL BY Q.C. (SYSTEM AVE)-AUDIT PRODUCT OF FINAL ASSEMBLY -FIRST SAMPLE RELEASED -TOOL NEST	6	72	None						
290) FIRST SAMPLE RELEASED BY Q.C. PROCESS AUDIT BY Q.C.	ASSEMBLY OUT OF SPECIFICATION	ASSEMBLY PROBLEM	7	N/A	MISS OPERATION - MATERIAL OUT SPECIFICATION	2	(D) FIRST SAMPLE RELEASED WORK INSTRUCTION - INSPECTION ACCORDING TO THE DRAWING	7	98	None						
290.02)	INCORRECT AUDIT	MANUFACTURING FLOW INTERRUPTED	7	N/A	INCORRECT INFORMATION USE	2	(P) WORK INSTRUCTION OPERATOR TRAINING	7	98	None						
290.03)	MISSING AUDIT	INTERRUPTED MANUFACTURING FLOW	6	N/A	INCORRECT INFORMATION USE	2	(P) WORK INSTRUCTION OPERATOR TRAINING	7	84	None						
310) FINISH ASSEMBLY IS PACKAGED BAG IS CLOSED	DAMAGE MATERIAL	ASSEMBLY PROBLEM	7	N/A	INCORRECT MATERIAL HANDLING IMPROPER PACKING	2	(D) MANUFACTURING INSPECTION - Q.C. FINAL AUDIT	7	98	None						
310.1)	INCOMPLETE STD PACK	CUSTOMER INSATISFACTION	6	N/A	MISS OPERATION	2	(P) PACKING INFORMATION ELECTRICAL ACCOUNT IN WORK STATION	7	84	None						
310.111)	WRONG SHIPPING LABEL	INTERRUPTED MANUFACTURING FLOW	6	N/A	MISS OPERATION	2	(D) SCANNING WITH ELECTRONIC DETECTION (P) -OPERATOR METHOD	7	84	None						
310.13)	WRONG CONTAINER OR BOX	ASSEMBLY PROBLEM	6	N/A	-INCORRECT HANDLING IMPROPER PACKING	2	(D) -MANUFACTURING INSPECTION -Q.C FINAL AUDIT	7	84	None						
310.15)	WRONG PACKING	CUSTOMER INSATISFACTION	6	N/A	MISS OPERATION	2	(D) -MANUFACTURING INSPECTION -Q.C FINAL AUDIT	7	84	None						
310.16)	WRONG SHIPPING LABEL	INTERRUPTED MANUFACTURING FLOW	6	N/A	MISS OPERATION	2	(D) SCANNING WITH ELECTRONIC DETECTION (P) -OPERATOR METHOD	7	84	None						
316) MOVE FINISH GOOD CONTAINER FROM WORK STATION TO INCOMPLETE CONTAINER AREA (WHEN APPLY)	FINISHED GOOD IS NOT SENT TO INCOMPLETE CONTAINER AREA	CUSTOMER INSATISFACTION	5	N/A	MISS OPERATION	2	(P) WORK METHOD	8	80	None						
318) RELABELING WHEN APPLY	WRONG SHIPPING LABEL	CUSTOMERS INSATISFACTION	4	N/A	IMPROPER MATERIAL HANDLING - SYSTEM PROBLEM	2	(P) OPERATOR TRAINING (D) VISUAL INSPECTION	8	64	None						
318.1)	DAMAGE SHIPPING LABEL	ASSEMBLY PROBLEMS	4	N/A	IMPROPER MATERIAL HANDLING - SYSTEM PROBLEM	2	(P) OPERATOR TRAINING (P) VISUAL INSPECTION	8	64	None						
318.2)	INACTIVE SHIPPING LABEL	SHIPPING LABEL CAN NOT BE READ	4	N/A	IMPROPER MATERIAL HANDLING - SYSTEM PROBLEM	2	(P) OPERATOR TRAINING (P) VISUAL INSPECTION	8	64	None						
320) FINISHED GOOD CONTAINERS ARE MOVED TO MANUFACTURING INSPECTION AREA WHEN APPLY	DAMAGED MATERIAL	ASSEMBLY PROBLEMS	4	N/A	-IMPROPER MATERIAL HANDLING - THERE IS NOT METHOD	2	(D) -MANUFACTURING INSPECTION -Q.C FINAL AUDIT	8	64	None						
320.1)	DAMAGE LABEL	LABEL CAN NOT BE USED	4	N/A	INCORRECT HANDLING	2	(P) OPERATOR METHOD	8	64	None						
320.11)	MISSING SHIPPING LABEL	ASSEMBLY CAN NOT BE BUILD	4	N/A	INCORRECT HANDLING LOOSING DURING TRANSPORTATION	2	(P) OPERATOR METHOD	8	64	None						
320.13)	DAMAGE CONTAINER	SUSPECT MATERIAL	4	N/A	DAMAGE DURING TRANSPORTATION	2	(P) OPERATOR METHOD	8	64	None						
325) VERIFICATION OF SET-UP IN MANUFACTURING INSPECTION AREA	INCORRECT VERIFICATION	SUSPECT MATERIAL	5	N/A	MISS OPERATION	2	(D) VERIFICATION OF ROUTINE OF SET UP IN MANUFACTURING INSPECTION AREA	8	80	None						
330) MANUFACTURING INSPECTION (CONTAINMENT IS APPLIED WHEN APPLY)	FIRST SAMPLE MISSING	MATERIAL CAN NOT BE INSPECTED BY Q.C	6	N/A	-MISS OPERATION -FELT DOWN DURING TRANSPORTATION	2	(P) -OPERATOR METHOD (D) -VISUAL INSPECTION	8	96	None						
330.1)	ASSEMBLY OUT OF SPECIFICATION ACCORDING ATTRIBUTES	ASSEMBLY PROBLEMS	7	N/A	-INCORRECT MATERIAL HANDLING -INCORRECT USE OF VERIFIERS WHEN APPLY	2	(P) -OPERATOR METHOD (D) -VISUAL INSPECTION	7	98	None						
330.11)	WRONG CONTAINER	SUSPECT MATERIAL	5	N/A	IMPROPER INFORMATION HAND	2	(D) -OPERATOR METHOD (D) -VISUAL INSPECTION	8	80	None						
330.13)	DAMAGE SHIPPING LABEL	LABEL CAN NOT BE USED	5	N/A	INCORRECT HANDLING	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	80	None						

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Part Number (Delphi:35021687)			Design or Process Responsibility CHAVARRIA, VICTOR			Prepared by SIBAMEA, PEDRO N			Telephone # +52 844 4115500							
Model Year(s)/Vehicle(s) COMPONENT			Key Date 2021-10-06 00:00:00			Original FMEA Date 2016-02-27 00:00:00			FMEA Revision Date 2021-09-20 20:10:49							
Core Team CHAVARRIA, VICTOR, INGENIERO DE PROCESOS +52 844 4115500 GARZA, RAQUELINE V, INDUSTRIAL ENGINEERING PLANT 9800 CENTEC 1 +52 844 4115500 MEDINA, EDUARDO, null null GARCIA, ABRIL, QUALITY +52 844 4115500 RAMIREZ, FABIAN HORACIO, QUALITY ENGINEER +52 844 4115500 CARRANZA, DAVID N, TEC AMBIENTAL PLANT 9800 CENTEC 1 +52 844 4115500 ZARTUCHE, LUIS, COORDINADOR DE MATERIALES null SIBAMEA, PEDRO N, INDUSTRIAL ENGINEER PLANT 9800 CENTEC 1 +52 844 4115500 DOMINGUEZ, SALOME, RELIABILITY SUPERVISOR +52 REYNA, ANA LAURA, ASSOC CUSTOMER SATISFACTION ADMIN null										Supervisor's Approval STRINGEL, OSCAR						
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Item/Process Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S e v	C l a s s	Potential Cause(s/ Mechanism(s) of Failure	O c c	Current Design/Process Controls	D e t	R P N	Recommended Actions	Responsibility & Target Completion Date	Actions Taken	S e v	O c c	D e t	R P N
330.14)	MISSING SHIPPING LABEL	ASSEMBLY CAN NOT BE BUILD	5	N/A	INCORRECT HANDLING LOOSING DURING TRANSPORTATION	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	80	None						
330.16)	WRONG SHIPPING LABEL	-ASSEMBLY PROBLEM	6	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD (D) -VISUAL INSPECTION	8	96	None						
340) MOVE FINISH GOOD CONTAINER TO Q.C. INSPECTION AREA WHEN APPLY	DAMAGED MATERIAL	ASSEMBLY PROBLEMS	6	N/A	- IMPROPER MATERIAL HANDLING	2	(D) Q.C. FINAL AUDIT	8	96	None						
340.1)	DAMAGE CONTAINER	SUSPECT MATERIAL	6	N/A	DAMAGE DURING TRANSPORTATION	2	(P) OPERATOR METHOD	8	96	None						
340.11)	DAMAGE SHIPPING LABEL	LABEL CAN NOT BE USED	6	N/A	INCORRECT HANDLING	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	96	None						
340.12)	MISSING SHIPPING LABEL	ASSEMBLY CAN NOT BE BUILD	6	N/A	INCORRECT HANDLING LOOSING DURING TRANSPORTATION	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	96	None						
351) AUDIT PRODUCTS OF FINAL ASSEMBLY	WRONG IDENTIFICATED ASSEMBLY	ASSEMBLY PROBLEMS	6	N/A	IMPROPER MATERIAL HANDLING - ASSEMBLY IS NOT INSPECTED ACCORDING THE DRAWING	2	(P) LABELING AND PACKAGING WORK INSTRUCTION FOR Q.C (D) -VISUAL AID OF THE COMPONENT	8	96	None						
351.1)	MISSING SHIPPING LABEL	ASSEMBLY CAN NOT BE BUILD	6	NA	INCORRECT HANDLING LOOSING DURING TRANSPORTATION	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION OF SERVICE OPERATOR	8	96	None						
351.11)	ASSEMBLY OUT OFF SPECIFICATION ACCORDING ATTRIBUTES	ASSEMBLY PROBLEMS	6	NA	INCORRECT MATERIALHANDLING - INCORRECT USE OF VERIFIERS WHEN APPLY	2	(P) OPERATOR METHOD -D- VISUAL INSPECTION	8	96	None						
351.3)	WRONG SHIPPING LABEL	-ASSEMBLY PROBLEM	6	N/A	MISS OPERATION	2	(P) -OPERATOR METHOD	8	96	None						
351.4)	DAMAGE CONTAINER	SUSPECT MATERIAL	6	N/A	DAMAGE DURING TRANSPORTATION	2	(D) OPERATOR METHOD	8	96	None						
351.5)	WRONG CONTAINER	SUSPECT MATERIAL	5	N/A	IMPROPER INFORMATION HAND	2	(P) -OPERATOR METHOD (D) -VISUAL INSPECTION	8	80	None						
352) INSPECTION LAY OUT ANNUAL	DIMENSION IN TENSION OUT SPECIFICATION (WHEN APPLY)	CUSTOMER INSATISFACTION - NOT CAN USED	6	N/A	MISS OPERATION	2	(D) INSPECTO BY Q.C. SYSTEM PPAP	8	96	None						
370) CONTAINER IS CLOSED	INCORRECTLY CLOSE CONTAINERS	-DAMAGED COMPONENT -FOREING MATERIAL CAN GET INTO CONTAINER	6	N/A	-MISS OPERATION -DAMAGE BOX	2	(P) WORK METHOD TO CLOSE CONTAINERS	8	96	None						
380) MOVE FINISH GOOD CONTAINERS TO SHIPPING AREA.	DAMAGED MATERIAL	-DAMAGED COMPONENT -FOREING MATERIAL CAN GET INTO CONTAINER	6	N/A	-MISS OPERATION	2	(P) WORK METHOD TO CLOSE CONTAINERS	8	96	None						
390) FINISH GOOD CONTAINERS ARE SEGREGATED BY DESTINATION	SEGREGATION WRONG OR MISSING	CANT NOT ELABORATE MANIFIESTO	6	N/A	-MISS OPERATION	2	(P) OPERATOR METHOD	8	96	None						
400) MANIFEST (PUSH DELIVERY) IS ELABORATED	MISSING PUSH DELIVERY	CUSTOMER INSATISFACTION	5	N/A	-MISS OPERATION	2	(P) WORK METHOD	8	80	None						
410) MOVE FINISH GOOD CONTAINERS FROM SHIPPING AREA TO DISTRIBUTION CENTER	DAMAGED MATERIAL	CUSTOMER INSATISFACTION	5	N/A	-MISS OPERATION	2	(P) WORK METHOD	8	80	None						