DELFINGEN				CONTROL PLAN									R-DEL/103/E procedure			
N°	Description	Description Machine, Device , Jig , Tools for Mfg N° Product			Process	Special Char. Class.	Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	Method Sample Freq.	Le	vel 2 3	Control Method	Maintenance	Poka Yoke	Reaction plan
	Materials Receiving and Incoming Inspection	Forklift	1		Import Documents		Correct information from PO and CMR	Visual	100%	Each delivery	•		AQ/PO-DEL/204-33			Notify logistic manage Communicate to supplier
			2		Packing Condition		Box without deformation or hole	Visual	100%	Each delivery	•		AQ/PO-DEL/204-33			Notify logistic manage Communicate to supplier, Announce quality if nonconform found
			3		Quantity Check		Correct Quantity Specified in the PO	Visual	100%	Each delivery	•		AQ/PO-DEL/204-33			Notify logistic manage Communicate to supplier NC treatment proced
10			4		Label placement		Correct DPN with Batch Number	Visual	100%	Each packing unit	•		AQ/PO-DEL/204-33			Notify logistic manage Communicate to supplier NC treatment proced AQ18/PO-SQ18/004
			5	Supplier Conformance Report			Analysis of the batch according to the specifications	Visual	Once	Each delivery		•	AQ/PO-DEL/204-33			Notify Site QM and report to Supplier ar discrepancy found NC treatment proces AQ18/PO-SQ18/004
			6	Insert values in consolidated file			According to specification	Visual	Once	Each delivery		•	AQ/PO-DEL/204-33			Notify site QM and announce Material Manager NC treatment process
30	RAW MATERIAL STOCKING				Correct Location and proper packaging		Marking on shelves	Visual	100%	Each delivery	•		AQ/PO-DEL/204-33			Notify WH Superviso NC treatment proced AQ18/PO-SQ18/004
40	PREPARATION OF TOOLING	Moulds, Inner pin, Nozzle, Air rod, Thrust, Slitting guide, Ø Valve	1		Tooling preparation		To be checked: - reference of the tool - dimensions of: tool; rod; plug; cutting rod according process sheet	Visual	Each	Tool setup	•		Control card			Maintenance tooling area and fill intervent request SM/MO- SOF/574/A NC treatment proced AQ18/PO-SQ18/004
50	MOUNTING THE TOOLS	Moulds, Inner pin, Nozzle, Air rod, Thrust, Slitting guide, Ø Valve	1		Mounting the tools		Correct mounting of tools; respect moulds order number	Visual	Each	Tool setup	•		Control card	According GMAO		Maintenance tooling area and fill intervent request SM/MO-SOF/ NC treatment proced AQ18/PO-SQ18/004
60	Material preparation		1		Preparing the necessary materials for MO		Preparing: based material; colorant; additive according process sheet	Visual	Each	Start of production	•		Control card Setters for extrusion process Process sheet			NC treatment proced AQ18/PO-SQ18/004
61	Extruder machine feeding		1		Correct type of material used		According process sheet	Visual	Each	Start of production	•		Control card Dedicated barrel for each type of material Process sheet	Mnt level 1 for Maguire		NC treatment proced AQ18/PO-SQ18/004
62	SETTING UP THE PROCESS		1		Setting up the production parameters	KCC KCC	In this following order: - material dry (PA, TPA and M0468) - temperatures KCC - air pressure KCC - puller system - slitting unit (if required)	Visual	Each	Production start	•		Control card			NC treatment proced AQ18/PO-SQ18/004 MAN18_IT-MAN_041 AQ18 - LM 01
			2				- weight / meter	Scale	Each	Production start	•		Control card			NC treatment proced AQ18/PO-SQ18/004
			1	Over all aspect of tube			According process sheet - burrs; slit, strip; transversal breaking; profile shape; interior	Visual	Each	Packing unit	•		Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004 SM/MO-SOF/588 AQ18 - LM 01
63	Extrusion process	FC 32 and FC 14	2	Control on the product, material distribution/ thickness		ICspc	Maximum difference should not be more than 0.1 according process sheet	Comparator	Each	Packing unit	•		Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
			3	Weight			According process sheet	Scale	Each	Packing unit	•		Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
81	Perform stripe		1	Color stripe, if required			According process sheet -presence of the stripe -shade of the stripe	Visual	Each	Packing unit	•		Control card System-execution time for changing stripe colour Failure catalog AQ18/IT-SQ18/033 General control sheet for convolut.			NC treatment proced AQ18/PO-SQ18/004
82	Slitting operation	Slitter	1	Slitting aspect, if required			Burr; no opening of the slit; Presence of the slit; general aspect No overlapping of the slit	Visual	Each	Packing unit	•		Control card Maintenance level 1 Failure catalog AQ18/IT-SQ18/033 General control sheet for convolut.			NC treatment proced AQ18/PO-SQ18/004 MAN18_IT-MAN_041 AQ18 - LM 01
83	Marking	Printer	1	Marking aspect, if required			Overall aspect and color	Visual	Each	Packing unit	•		Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
84			1		Process of the filling CTN		Preparing the correct packaging for the final product. Checking the process of filling CTN.	Visual	Each	Packing unit	•		Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
	Packing and labeling		2		Correct quantity per box		According to manufacturing range	Visual	100%	Each box	•		Counter on machine			NC treatment proced AQ18/PO-SQ18/004
			3		Correct label, clean and readable		Must be clean and readable	Visual	100%	Each box	•		Internal instruction Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
			4		Damages on packaging		Packaging without any damage	Visual	100%	Each box	•		Internal instruction Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004
			1	Control on the product, material distribution/		ICspc	Maximum difference should not be more than 0.1 according process sheet	Comparator	1st meter sample	Production start Set-up or machine interruption	•	•	Control card Failure catalog AQ18/IT-SQ18/033			NC treatment proced AQ18/PO-SQ18/004

DELFINGEN]						R-DEL/103/E procedure					
				Characte	ristics				Methods								
N°	Description	Machine, Device , Jig ,Tools for Mfg	N°	Product	Process	Special Char. Class.	Specification / Tolerance	Evaluation / Measurement Technique	Sample Size	Sample Freq.	Le	Level 1 2 3		Control Method	Maintenance	Poka Yoke	Reaction plan
92	Final inspection		2	Weight			According process sheet	Scale	1st meter sample	Production start Set-up or machine interruption	•		•	Control card Failure catalog AQ18/IT-SQ18/033			NC treatment procedure AQ18/PO-SQ18/004
			3	Over all aspect of tube			According process sheet - burrs; slit, strip; transversal breaking; profile shape; interior aspect; no rubbing; colour; tube arranged in ctn; no blowouts/holes; diamator size	Visual	1st meter sample	Production start Set-up or machine interruption	•		•	Control card Failure catalog AQ18/IT-SQ18/033			NC treatment procedure AQ18/PO-SQ18/004
95	Annual laboratory test		1	Material to be test			All test from list Products Annual Testing to be performed	According customer specification	Accordin g request	1/year			•	Callisto			If nok test raise Uranus claim
100	Capability study		1		- Thickness	ICspc	Cpk > 1,67 Cp > 2	Comparator clock,	50 parts	Once per year			•	Minitab file			NC treatment procedure AQ18/PO-SQ18/004 In case Cpk values are nok 100% sorting until process is brought to limits
130	FIFO STOCKING		1		Finished products stocking in designated zone		Product stocking on marked area	Visual	100%	Each shipping.	•			Sign marking of warehouse area			Announce Logistic and Quality managers
			1		Products taken out from main store and sent to expedition area.		Delivery note following- up sheet. No damaged packaging	Manual	100%	Each shipping.	•			Pick list			Reject – replace packaging and / or labe of the goods
140	SHIPPING PREPARATION	Forklift Scanner	2		Expedition label manual sticking		Same expedition label reference with the label reference present on the packaging of goods for delivery.	Manual	100%	Each shipping.	•			Label pairing			Reject – replace label o the goods
			3		Scanning for FIFO system check and pairing		SATURN check for correct stock take out	Visual	100%	Each shipping.	•			Scanner		Scanner	If error, put back the packaging in the stock and take the corect FIFO box

Revision	Revision Details	Ву	Revision Date
А	Creation of document	Jozsef Gyarmati-Fati	07/12/2005
В	Introducing the Shipping audit	Jozsef Gyarmati-Fati	31/01/2006
С	Concern from SEWS – Alba. Introducing Quarantine for Op. 12 and 14.	Jozsef Gyarmati-Fati	05/03/2006
D	Customer concern from Valeo.	Jozsef Gyarmati-Fati	23/06/2006
E	Customer concern from Delphi and Valeo.	Jozsef Gyarmati-Fati	08/09/2006
F	Customer concern from Lear	Jozsef Gyarmati-Fati	19/01/2007
G	Customer concern from SEWS-Alba Iulia	Jozsef Gyarmati-Fati	04/05/2007
н	Customer concern from Delphi Samara & logo change	Jozsef Gyarmati-Fati	11/09/2007
I	Customer concern from SEWS-Deva	Jozsef Gyarmati-Fati	12/10/2007
J	Updating of CP according group update: parameter adjustment introduced in the flow chart	Jozsef Gyarmati-Fati	29/01/2008
К	Customer concern from SEWS-Deva	Bria Calin	07/07/2008
L	Leoni Pitesti quality notification: Conditioning in smaller CTN's	Bria Calin	29/05/2009
М	Leoni Pitesti and SEBN quality claim: introduction of expedition label manual sticking	Jozsef Gyarmati-Fati	10/12/2009
N	2x Customer claims from SEWS-Alba: Op. 11 & 8	Dalina Suciu	29/11/2010
0	Internal quality claim: add drying of the new additive for PA (M0468) at Op.6	Dalina Suciu	02/03/2011
P	Customer claim from SEWS-Alba	Dalina Suciu	14/07/2011
Q	Customer claim from SEWS-Alba	Dalina Suciu	18/12/2011
R	Removing simbol "R"	Dalina Suciu	09/03/2012

DELFINGEN				CONTROL PLAN									R-DEL/103/E procedure				
Machine, Device ,			_	Characte	ristics	Special		Evaluation /		Method			_				
N°	Description	Jig ,Tools for Mfg	N°	Product	Process	Char. Class.	Specification / Tolerance	Measurement Technique	Sample Size	Sample Freq.	Level 1 2 3	Control Method	Maintenance	Poka Yoke	Reaction plan		
	S				Customer	r concerr	from Delphi Samara				Dalina	Suciu		12/03/	2012		
Т					Customer co.	ncern fro	m Delfingen Sk / Lear F	lu			Dalina	Suciu	12/06/2012				
U					Customer co.	ncern fro	m Delfingen Sk / Lear F	lu			Toma (Ovidiu		25/10/2012			
V					Introducin	ng of sca	nning system for FIFO				Toma (Ovidiu	12/02/2013				
W					Delete paragrap	ph with G	Green Labels for accepta	ance			Toma (Ovidiu	05/11/2013				
	Х				Imple	emented	CP in new format				Toma (Ovidiu		15/01/	2014		
	Y				Cusi	tomer cla	nim from Sk Nitra				Toma (Ovidiu		25/03/	2014		
	Z				Customer claim fro	om Fr-An	teuil/Amipi - Uranus18,0	000,145			Toma (Ovidiu		22/09/2014			
	AA			Rem	ove flammability te	est in pro	duction by adding Annu	al Lab.Test			Toma (Ovidiu		11/11/2014			
	AB				Reinforce co	ontrol aft	er new operators arrived	i			Toma (Ovidiu		15/12/	2014		
	AC			Custome	er claim Draxelmai	er 18,00	0,156 and Delphi 18,000),157(canceled)			Toma (Ovidiu	21/01/2015				
	AD			PPMV NAG VW project integration Toma Ovidiu								Ovidiu	01/06/2015				
	AE				Update to matchir	ng FLOW	-CP-FMEA after Interna	l Audit			Toma (Ovidiu	21/07/2015				
	AF			Annual review Toma Ovidiu								Ovidiu	21/07/2016				
	AG		Review after SEWS Claim Uranus 18.000.216 Toma Ovidiu								Ovidiu	31/01/2017					
	АН		Remove IC from weight Toma Ovidiu								Ovidiu	12/10/2017					
	Al				New extrusion	machine	recive TC8 and 18.000.	242			Toma (Ovidiu	09/03/2018				
	AJ					Annu	al review				Brihan I	Remus	09/03/2019				
	AK					Put in ne	w CP format				Brihan I	Remus	23/08/2019				
	AL				Up	date afte	r external audit				Brihan I	Remus	04/02/2020				
	AM					Update i	e reaction plan Brihan Remus						30/03/2020				
	AN			New extrusion machine receive CA32 -122 Boszormenyi Francesca							i Francesca	29/10/2020					
	AO		Update after claim #374 Boszormenyi Francesca							21/02/2021							
	АР			Annual review - Adding SPC to IC Petrescu Nicolae								15/12/2021					
AQ			Review-Adding control methods Petrescu Nicolae								Nicolae	12/12/2022					
AR				Review - add	ing general inform	ations ar	d control methods acco	rding to 2023 cla	ims		Petrescu	Nicolae	04/12/2023				
	AS				Review - pe	rform str	ipe with control methods	5			Petrescu	Nicolae	17/01/2024				
	AT			Review - S	Slitting operation w	ith contro	ol methods				2024						
	AU			Review -	Overall aspect of	the tube	with burrs			Petrescu Nicolae 05/04/2							
	AV				fter transfers and i		· · ·			Petrescu Nicolae 12/08/2024							
	AX AY			Update			chine feeeding and Slitti rusion Process	ng operation.			Petrescu Petrescu			20/01/ 26/03/			