l A	A E	3	С	D	E	F	G	Н	I	J	K	L	М	N
1														
2			A Compor	nent-oriented Process Failure Risk Analysis Method (Ver. 5)	hy Professor Paul G. Ranky, PhD. N.IIT/MFF	SC					© Copyright by Paul G. Ranky, 1992-to date			
3			A compor	ient offented i rocess i anare Kisk Anarysis method (ver. 5)	by Froiceson Faul C. Rainty, Frib, Northwell									
4														
5														
6		5 .		O. (II. NEW D. Material Days (as Oliverty O. stains							This DEDA Study was Proposed By			
/			1.1	Goff's NEW Raw Material Prep for Climate Curtains	PFRA Study ID Number Date of This Study (mm/dd/yy)	1		Process Code Engineering Release Date of Process				This PFRA Study was Prepared By		
9				Singh Inc.						Climate curtains and Window Insulator kits	PERA Team Personality Organization/ Penartman		n/ Dan autwant	
10			9	Lenze, Datex, Interlake	Original Date of This Study	1/20/2012	Type of Product Processed Product Group Classifier				Climate curtains and window insulator kits	Responsible Organization/ Departm Comments		/ Department
11				N/A	Revision Number			Engineering Release Date of the Product			N/A	Continuents		
12		Produ	luct Serial Number and Optional Image Map	N/A	Comments	None	Engineer	ing Release	Date of the Produ	<u> </u>	IV/A			
13	Proce	ess ID C	Describe the Process for Each Process Step and Optionally Illustrate the State of the Device/ Part/	Specify the Tool(s) Used in Each Process Step	Specify the Fixtures / Clamps Used in Each Process Step	List / Identify the Parts / Components Retrieved in Each Process Step	Process Time	Process Cost	Accumulated Process Cost	The PFR	A Team Describes / Illustrates the Potential Process Failure Mode and the Effect; the Risk of Failure	Severity Rating	Detection Rating	Occurrence Rating
14		Sub	bassembly/ Object AFTER the Process is Complete					53.00		Proc.ID	Failure Mode(s) and Effect(s)			
15							[sec]	[USD]	[USD]			(1 -10)	(1- <mark>10</mark>)	(1- <mark>10</mark>)
16										ID 1.1	Material is Unusable	2	3	3
17 18	1	1 Ba	aled recycled vinyl stock is placed on weigh conveyor	Automated Lift system	Weigh Conveyor	Baled Recycled Vinyl Waste	60	0.88	0.88	ID 1.2	Automated lift system not working	3	1	3
19										ID 2.1	Vibrating screen not working	3	1	2
20	2	2	The stock is fed to first vibrating screen	None	Screen	Metal and other waste from the bales	30	0.44	1.33					1
21 22														1
22										ID 3.1	Failure of screen	5	1	3
23	3	3 Ir	he vinyl waste is then sent to the second high speed rotating screen	None	Rotating Screen, Motors, Belts	Scrap	30	0.44	1.77	ID 3.2	Faliure of Motor	5	1	3
24			rotating screen											
25										ID 4.1	Spray Nozzles Blocked	5	3	4
25 26 27	4	1	The vinyl is sent to spray wash system	None	Water Spray Nozzles, Pumps	Organic materials	120	1.77	3.53		Pumps not working	10	1	2
27														
28 29										ID 5.1	Heaters not working	10	1	2
29	5	5	Melting Tank	None	Tank, Heaters, Agitators	None	900	13.25	16.78	ID 5.2	Agitator not working	4	2	1
30 31														
31										ID 6.1	Screen is blocked	10	5	2
32 33		6	Gravity Fed through Screen	None	Screen, Piping, Valves	Metal Scrap that maybe in the stock	30	0.44	17.23	ID 6.2	Piping Leaking	3	1	1
33										ID 6.3	Valves closed shut	5	2	1
34					Tank, Piping, Level Sensor	None	60	0.88		ID 7.1	Level Sensor not working	3	1	4
35 36 37	7	7	Conitnous level Heated Storage Tank	None						ID 7.2	Piping leak	2	4	1
36										ID 0 :		_		
			On it follows By 15 11 is	N.	Dining Hood Day Dallars	None	45	0.66		ID 8.1	Piping leak	2	1	1
38		٤	Gravity fed to Head Box and Forming Unit	None	Piping, Head Box, Rollers		45			ID 8.2	Line Blockage	5	2	1
39										ID 8.3	Head Box Blocked	2	1	3

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7	Gurprpeet Si	rprpeet Singh												
8														
9														
10	None													
11														
12				1										
13	RPN (Risk Priority Number)	Max. RPN	Tooling Factor	Clamping/ Fixturing Factor	Skill Factor	Any Other Factor You Define	Accumulated RPN	Risk Associated	The Effect of Each Process Step Failure Risk on Other Processes	The Effect of Each Process Step Failure Risk on Other Parts (I.e. components/ objects)	<u>Detection Mode</u>	Recommended Corrective Action(s)		
15			0.1-2,1=100%	0.1-2,1=100%	0.1-2,1=100%	0.1-2,1=100%								
16	18								No Effect	No effect	Material Handling	Communicate material defects to purchasing and suppliers		
17	9	18	1.00	1.00	1.00	1.00	18.00		Doesn't slow down process, switch to manual trucks		Material Handling	Service Automatic Lift system Regularly		
18									F,		<u> </u>	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3		
19	6								No effect on manufacturing more screens down stream	No effect	Material Handling	Check Screen for blockage and mechanical issues		
20		6	1.00	0.70	1.00	1.00	4.20	Low						
21														
22	15								High level of rejects going to melting tank	Upset the melting tank	Manufacturing department	Check screen for blockage and mechanical issues		
23	15	15	1.00	0.50	1.00	1.00	7.50	Low			<u> </u>			
24														
25	60								Organic junk going to melting tank, Undesirable vinyl liquid	Delay / financial loss	Manufacturing department	Check spray wash system service regularly to insure proper function		
26	20	60	1.00	1.00	1.00	1.00	60.00				Manufacturing department	Check pumps and have back ups on hand		
27											<u> </u>	·		
28	20								Delay the forming and manufacturing process	Delay / financial loss	Manufacturing department	Check gas supply line and pilot light		
29	8	20	1.00	1.00	1.00	1.00	20.00			•	Manufacturing department	Check circuit breaker and motor		
30									, , ,	·	Ŭ ,			
31	100								Delay the forming and manufacturing process	Delay / financial loss	Manufacturing department	Clean screen		
32	3	100	1.00	0.50	1.00	1.00	50.00			•	Manufacturing department	Install temporary piping patch		
33	10									,	Manufacturing department	Clear blockage		
34	12										Manufacturing department	Check input and output signal		
35	8	12	1.00	1.00	1.00	1.00	12.00				Manufacturing department	Install temporary piping patch		
36												the second believed bearen.		
37	2								Less material going to forming/Pressure loss	Delay / financial loss	Manufacturing department	Install temporary piping patch		
38	10	10	1.00	0.40	1.00	1.00	4.00			•	Manufacturing department	Clear blockage		
39	6			-							Manufacturing department	Replace with secondary box		
33									,	,	3 - 1 - 1 - 1 - 1 - 1	1 /		

