

NEW PARTS / JOBS

INVITED:
Mike Giroux: Beth Muse; Todd VanHal; Sal Distefano; Mike Pare;

Travis Donberger; Scott Barko; Phil Fairley; Alex Vucinic;

Greg Peltier; Kyle Lussier; Mark Little; James Sowell;

Matt Kelly; Wendell Zhen

ATTENDEES:

Mark Fleming; Kyle; Todd; Mike Pare; Scott; Mark Little; Mike Giroux; Beth; Sal;

Michael Vecera; Kathy Newman; Travis; Wendell; Jamie; Matt Kelley

DATE: January 18th, 2012

CUSTOMER: Magna-Louisville

PLANT (S) RESP: WMPI >> POSTS

INDIANA >>ASS'Y & UPPER TUBE

SALES REP: Scott Barko
PROGRAM MANAGER: Michael Vecera

PART NUMBER: CJ54-96611E24-A (C520 4-way >>NO TOPPER PAD; NO TRIM)

CJ54-S611A08-X-B3-XXX (C344 4-way >> Complete Ass'y w/Trim)

PPAP DATE / LEVEL : WM to Magna >Phase 0/1: 01/16/12; Phase 2/3: 02/01/12

WMPI to Princeton:

PRODUCTION START DATE: C520: February 1st 2012 >Ramp-up; June 2012 >Full Prod

C344: April 1st 2012 >Ramp-up; July 2012 >Full Prod

VOLUME: C520 Only = 750,720/yr = 15,640/wk = 3128/day = 224/hr

C520 + C344 = 881,280/yr = 18,360/wk = 3672/day = 264/hr

EXISTING PARTS / JOBS

CURRENT LOCATION(S):

NEW LOCATION(S):

#	PART PRINT / MATH DATA	YES	NO	N/A	COMMENTS	DATE	RESP.
1	Has math data been received from the customer?	Χ					
2	Have prints been generated?	X			stamping. Need final ass'y print updated with solid pin *all sub-assy drawing complete and sent to Ana. Final assy drawing is outstanding.	27-Jan	ML
3	Have prints been controlled and distributed?	Χ			All prints controlled. See Ana Chau for drawings		
4	Are the manufacturing tolerances feasible?	Χ					
5	Are SC/CC requirements applicable?	Χ					
6	If no customer SC/CC's have been identified have internal SC/CC's been identified as per TS requirements.	Χ					
7	Are engineering specifications defined? i.e. material, weld, coating, torque etc.	Χ					
8	Is there a potential for hydrogen embrittlement? Has it been considered in the design?		X				
9	Are the part/component designs final?	Χ					
10	Are supplementary drawings required?	Χ			See item 2		
11	Are the supplementary drawings controlled and distributed?	X			See item 2		



	Has the DFMEA been created and approved by the customer?	X		Document has been created and sent to Matt Kelley. Document has not been approved by customer. Need to contact Magna regarding approval process.	ML / MV
13	Has DV testing been completed?		X	WM is not responsible.	



#	FIXTURES / GAUGING	YES	NO	N/A	COMMENTS	DATE	RESP.
14	Are the fixture(s) design is complete?	Х					
15	Are multiple fixtures required?	Х			need ring gages for posts *on-track for January 20th	20-Jan	KL
16	Are customer fixture(s) required?		х				
17	Have all fixture(s) designs been reviewed/approved?		х		need to be reviewed by product design.	20-Jan	ML
18	Has customer reviewed/approved fixture designs?			X			
19	Are fixture builds complete?				Lock Post / Slave Post complete & certified. Need template fixtures. Cannot certify upcoming fixtures or gage. CMM is down. *Need template fixture. *Proposal to build receiving inspection gages for supplied components. Plants need to forward request to Phil F.	20-Jan	MP / BM / MK
20	Are fixture(s) certified / R&R complete?				see item 19. CMM is downrunning by end of week.	20-Jan	MP

3



	#	PPAP REQUIREMENTS	YES	NO	N/A	COMMENTS	DATE	RESP.
	21	What level PPAP is required?	x			Level 3 required. Post PPAP: 02/02. Ass'y PPAP is due 02/06 Run @ Rate Posts: 02/01; Run @ Rate Assy: 02/03	06-Feb	BM/MK
l	22	Does the customer have specific PPAP requirements?	Х			Will follow 2nd row submission. Matt to contact Krishna to confirm	06-Jan	MK
L		Has the customer provided their supplier manual?				see item 19		
		Has the supplier manual been reviewed to ensure that all customer specific requirmements are captured?				see item 19		
Į	25	Are part dimensionals required? How many?				Beth sent samples to Ellis. Will has submitted layouts.	1/18/12	ws
L	26	Has PPAP responsibilities been assigned?	Х			Beth Muse (Posts); Matt Kelly (Upper Tube & Final Assy)		
	27	Are there any other PPAP open issues?	Х			DFMEA; Process Flow; Control Plan is in-process (ML); PFMEA (MK) **sent to Matt Kelley. Matt and Mark to review.	20-Jan	ML/MK
						Magna requires corrugated plastic cell packs >>labor intensive (~12 labor hrs / day). Ken submitted quotes to Scott. Quoted is bulk returnables. Greg & Scott to discuss offline.**plan was to supply in bulk 48x45 returnables. Scott to negotiate customer supplied returnables. Mike Giroux needs direction from		0.0
	28	Is there Packaging / Labeling Requirements?	Х			Scott before we purchase containers.	1/20/12	SB



#	TOOLING	YES	NO	N/A	COMMENTS	DATE	RESP.
29	Are the tool designs complete?	Х			Proposal to implement a vision system to verify component presence **vision system has been ordered but not allocated for Princeton.	TBD	PF/TD
30	Has the manufacturing plant reviewed the designs?	Х			See cell layout. Sal has reviewed post cell-plant is ready for tooling	18-Jan	SD
31	Is additional equipment required?	X			1) Glue Machine: not scheduled to leave w/ass'y tools. Glue pattern (proto/pre-production) is not the same as production intent>>target March 5th @ Princeton.**Jamie has a spare hot melt machine. Needs \$\$ to get working. Mike Pare is going to look into sending Ellis Tool's machine. Need curing troughs >>Kyle & Jamie to discuss building quick and dirty troughs until automatic gluer is available. 2) Need welders for lock post & upper tube 3) Upper tube bender needs to be plumbed 4) Cycle tester needs cylinder **recieved and its 'comin' assy in process 5) Vision System proposal needs to be finalized, approved and kicked off 6) Dbl Riveter is required >>tooling will be ready by 01/09. **tooling completewaiting on riveter. January 20th at the earliest.	20-Jan	MP/AV
32	Is outsourced tooling / equipment required?				see item 31		
33	Is the tooling complete?		х		Cycle tester & glue machine outstanding. Most tools on-track 01/14. Automation: 01/20; Notcher is up and running Tooling is ready. Waiting on captial equipement (welders; riveter) and	27-Jan	MP
34	Has the tooling been developed?		х		components		
35	Has the manufacturing plant reviewed and approved tooling?			X			
36	What infrastructure is required at the plant to run the required tooling?	x			1) '4' 30amp bus plugs (480 volt) need to be shipped to Princeton. Sal will coordinate >>target is 01/13/12**received @ Princeton. ready for tools 2) Work tables / transfer racks >>Kyle and James Sowell to discuss what will be required. **Kyle & Jamie to have concept final by 01/23 WMPI will be ready by 01/23. 01/21 power drops in place >>Kyle & Mike Pare to contact Sal to confirm post cell layout		SD/JS
37	What components are required for tool development? How many components are required?	x			Tubes (posts): WMPI has 6000 in-house. Kyle needs 3000 tubes for development 4000 upper tube blanks on-track for 01/20. Kyle needs 500 tubes for development. Ship entire quantity to Ellis. Remainder will ship to Princeton with tools. All fine blanks req'd. Cover plate: 1700pcs on-hand 01/18		
38	When is tool development scheduled to take place? Which tools typically have the longest development time? Has the WM designed and built tooling been labeled	Х			see item 37	23-Jan	MP/Kyle
39	per customer requirements? Have photos been submitted to Corporate?		х		Crystal to visit Ellis to label and take photos	19-Jan	MP/CG





#	SUB-COMPONENT REQUIREMENTS	YES	NO	N/A	COMMENTS	DATE	RESP.
40	Are outsourced components required?	Х					
41	Have supplier(s) been reviewed?	Χ					
42	Have purchase orders been issued?	Χ				1/06/12	AV
43	Have components been 'built' into the system?	Χ				1/18/12	MG
44	Has an EDI test been conducted? Has the supplier acknowledged receipt of WM releases?	X			All suppliers are EDI capable. Some receive EDI and some receive hard copies	1/18/12	MG
45	Is the supplier evaluation/development is complete?		х		Target date is based on C346 program PPAP	12-Mar	PF
46	Have supplier(s) submitted PPAP and samples?		x		Batesville (Cover plate; LS & SS stampings)submitted interim. Dies will be running tomorrow. Final: 01/22; Theta (lower ratchet)>>???; Welded Tube (posts & upper) >>ppap submitted. Once length is developed, update the PSW and submit. BMC (shafts)>>need to confirm		AV/AC
47	What componenent/supplier has longest lead time?	x			Theta (lower ratchet)>>need to confirm ppap date. 2-3 weeks?? WM Corp to contact Kevin Milne regarding lack of response from Debra. BMC (pivot shaft)>>need to contact Tony Nicks re: ppap	18-Jan	AV
48	Has a supplier capacity analysis been conducted and confirmed?	x			Need to confirm that fine blanks (Theta) can meet quoted volume of C520; CD4; C346.	18-Jan	AV
49	Have suppliers labeled customer owned tooling? Have suppliers submitted photos?		х		Tagging sheet sent with tool po's. Need to follow-up with each supplier. PPAP approval is contingent on tool tagging.	18-Jan	MV
50	Have shipping patterns been established with suppliers?	Х			Short-term patterns are established. Penske logistics are reviewing	27-Jan	AV/MG
51	Has supplier packaging been reviewed and agreed upon?			х	WM is ordering based on requirements. No standard pack established.	18-Jan	MG

	#	Customer Releases	YES	NO	N/A	COMMENTS	DATE	RESP.
	T							
5	52	Have trading partners been established?	X				18-Jan	MG/WZ
Ę	53	Has EDI been sucessfully received from customer?	Х				18-Jan	MG/WZ
		Have shipping patterns been established with						
5		customer?		Χ		Need to discuss and confirm with Magna-Louisville	2/27/12	MG/WZ
Ę	55	Has FOB point been established?	Х					

7



	Have customer blanket PO's been received at the				
56	latest part levels & pricing?	Χ	1st row has proto pricing; 2nd row is correct	18-Jan	MV



O	THER OPEN ISSUES C	DR CONCERNS
1)	LAUNCH SUPPORT	Kyle (confirmed); Mark Fleming (TBD); Mark Little (TBD); Greg (TBD); Phil F (TBD).
2)	ON-SITE CUSTOMER SUF	PPORT Phil to assign liaison (Chuck) to support Magna.
3)	GP12	3rd Party Containment to be used during launchthis for both 1st row and 2nd row **Matt has contacted Pro-tech. Scheduled to come in ~February 3rd.
4)	Overseas Orders	Orders have been received to supply 4-way assemblies to Magna-Spain & Tecknik. There are 370 pcs (Spain) & 384 pcs (Tecknik) due by 02/13/12.
4)		Packaging suitable for international export is required. **Tri-wall supplier visiting WMPI 01/18 (MG) same packaging as used for Venezuela
		Need packaging study completed (CF/ML)