

PROJECT LEVEL:**Project Leader:** Alonso Sanchez**Date Updated:** 05/08/23

Highlighted requirements must be completed before production pilot builds.

Production Line:	MicroQuick Sprays
Validation Number:	CQF23-032
Validation Name:	New Custom MQ Q5120BSED08X
Area:	AG - MicroQuick Sprays
Pilot run date(s):	05/09/23

Item	REQUIREMENTS	Responsible Area	Responsible Person	Due Date	Status	Notes
1	Preferred or certified suppliers selected for all components, unless otherwise justified. No new component part suppliers are used unless otherwise justified. (Meets all CMP0601 requirements)	Buyer	icolorado	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
2	Ensure inventory to meet pre-production inventory build (8 weeks) is in plant, and purchase orders are in place to meet component lead-time requirements based on the production plan.	Buyer	icolorado	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
3	Ensure the molds, molded parts, and non-molded part capacity for all components meet 12 month forecast and a plan is in place to meet the year 3 forecast as defined by the project.	Buyer	icolorado	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
4	Ensure Country of Origin and customs (NAFTA/USMCA-type) certifications for all components are setup in PeopleSoft (MRP).	Buyer	icolorado		Completed	
5	Obtain approval for product line layout and material flow as well as ensure all plant regulatory requirements are completed.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
6	Ensure new or modified equipment procedure (172776) is completed for all new equipment used on the product line.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
7	Complete the JHAs, safety assessments, 5S audit (for the completed process), and safety checklist. No outstanding actions can be pending.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
8	Confirm that the item masters, material routing, labor standards, and labor costs are setup and rolled into PeopleSoft (MRP).	Manufacturing	ellopez	08/05/23	Completed	Routings completed as part as ECO23-0502.
9	Create, release, and post all assembly instructions and aids in the appropriate languages.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
10	Setup system to monitor production line metrics like efficiency, downtime, rate, and scrap.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.

11	Optimize production process parameters through Design for Experiments, Sensitivity, Regression, or ANOVA processes.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
12	Confirm PFMEA has been updated and all items with RPN exceeding acceptable levels are addressed. (CQF0902)	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
13	Establish and release preventative maintenance program in MP2 for all production line equipment and tooling and confirm spare parts are setup (suppliers, pricing, min/max stock, etc.) in the system and in stock.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
14	Ensure all machine settings and control programs are documented, backed up, password protected by a controlled password, and provided to maintenance.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
15	Confirm the production line capacity meets the 12 month forecast and the peak forecast (capacity factor) as defined in procedure 183359.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
16	Ensure drawings, schematics, PLC ladder logics, and similar items for all production line equipment and machines along with machine builders contacts are provided to maintenance.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
17	Ensure all fixtures drawings are released with critical dimensions in Connexus and have a preventative maintenance plan defined in the MP2 system.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
18	Confirm all production shifts have been successfully trained and training documented.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
19	Confirm maintenance personnel have been trained on all equipment maintenance and settings. Ensure training is documented.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
20	Confirm no non-automated elevated inspection points (frequency >20%) are required (excludes final inspection). Final inspection should be elevated for the first 3 months as part of the launch plan. DPPM levels should support eliminating the elevated final inspection after 3 months or a production hold be implemented.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
21	Demonstrate the production line is capable of running at theoretical rate, with Cpk's >1.67, and total process DPPM <2000 on each production shift.	Manufacturing	ellopez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
22	Setup processes for any special material handling and/or storage requirements.	Product Engineer	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.

23	Ensure all part drawings are released and Costed Bill of Materials are setup and buyer is assigned. Ensure regulatory certifications are in place (i.e. RoHS) for all components and finished goods.	Product Engineer	asanchez	08/05/23	Completed	Item completed as part of implementation of ECO23-0502.
24	Confirm product specification with key customer requirements is defined and product validation plan for production release (CQF1007) has been approved. Note: Completion of the validation is managed as part of the CQF1007 process.	Product Engineer	asanchez	08/05/23	Completed	CQF23-032 completed and attached to this validation.
25	Disposition all pre-released and/or engineering components and samples from the plant. Ensure all obsolete materials are scrapped both internally and at vendors.	Product Engineer	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
26	Complete visual inspection of finished goods to ensure products and packaging match engineering assembly drawings and overall product intent.	Product Engineer	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
27	Confirm parts and finished goods are setup in the distribution package system (Cubic Scan) and customs system to support import/export processess.	Product Engineer	asanchez	11/05/23	Completed	PDE and cubiscan data completed and received in DC's
28	Confirm technical personnel have been trained on test equipment use and maintenance. Ensure training is documented.	Product Engineer	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
29	Confirm that packaging, labeling, literature, and date codes meet the corporate standard (Intranet) and are released in the system. Confirm SCC label prints correctly.	Product Manager	asanchez	08/05/23	Completed	All packaging and labeling meet corporate standards and is documented in the production validation package attached to this validation.
30	Provide the RGA Center with date code instructions and update the date code document on the distributor portal. Setup product line in Rain Tech database.	Product Manager	nholmes	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
31	Track excess and obsolete components and confirm disposition is completed as defined in the plan.	Product Manager	nholmes	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
32	Establish the manufacturing transition plan as it relates to launch of SKUs in various regions as well required future investments.	Product Manager	nholmes	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
33	Create and demonstrate production control plan, first article inspection plan, and end of line quality audit plan are in place to ensure all critical to customer requirements are being monitored and assessed.	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.

34	Create and execute inspection plans for all mechanical and electrical components and supplier documentation is in place for all components. Verify that the inspection plans have all the critical dimensions, features, and notes.	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
35	Establish real time Statistical Process Control (SPC) for all critical production processes and parameters. (CQP2001)	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
36	Provide inspection plans and gauges for all purchase components to respective suppliers.	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
37	Achieve an acceptable Gage Reliability and Repeatability Study for all measuring/test/inspection devices in the process and at suppliers, and ensure Golden Samples and measurement correlation between Rain Bird and Suppliers occurs (meets CPQ2001). Confirm that all measuring and test inspection devices are under calibration control.	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
38	Ensure all components have successful QAP2000 or PPAP (non-molded parts) packages in place.	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
39	Setup product line, warranty time, and priority RGA status in the RGA system.	Quality Engineer	vrojo	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
40	Verify the condition of all molds for rubber components and confirm there is a plan in place to replace any deficient molds as required.	Sourcing	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
41	Esnure new mold procedure (176102) is completed for all new plastic injection molds.	Sourcing	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
42	Verify that the mold preventative maintenance schedule is in place for both new and existing molds.	Tooling	asanchez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
43	Preliminary QAP Approval	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.
44	Release to Production Approval Sent to the Supplier	Quality Engineer	angonzalez	08/05/23	Completed	Not required as established by LE (Line Extension) Validation.

CCB & Approvers

Engineering
Manufacturing
Materials
SBU Engineering Manager

Production
Quality
Quality & Operations Manager
Date Completed