

OmnexSystems


3025 Boardwalk Suite 290, Ann Arbor, MI 48108

ISO 9001:2015

22 Dec 2021 - 23 Dec 2021

Lead Auditor **User 04**

Observer **User 05**

Client Information	
Company Name	OmnexSystems
Contact Person	User 05
Department/Process	HQ
Address	3025 Boardwalk Suite 290, Ann Arbor, MI 48108
Scope of Audit	Scope of the Audit: The scope of the audit includes the requirements of ISO 9001:2015, IATF 16949:2016, , ISO 14001:2015 and ISO 45001:2018 Customer Specific Requirements including but not limited to Ford, FCA US, GM, BMW, VW, and internal documented Quality Management System with application to all processes as per the Process Map attached. The location of the audits is as follows:
Audit Schedule	QMS Process Audit '21 - '22
Audit Conducted By	Site Internal
Shift	SHIFT B
Auditor	User 02,User 03
Report Publisher	User 03
Signature	
Date	12/21/2021

Audit Plan			
Date	Time	Activity	Person(s) Interviewed
2021-12-22	08:00 - 08:30	Opening Meeting	
2021-12-22	08:30 - 09:00	Implementation of Product & Process Development	
2021-12-22	09:00 - 09:30	Customer Service	
2021-12-22	09:30 - 10:00	Corporate Responsibility & Sustainability - HQUS02.1	
2021-12-23	16:30 - 17:00	Preperation For Closing Meeting	
2021-12-23	17:00 - 17:30	Closing Meeting	
2021-12-22	08:00 - 08:30	Opening Meeting	
2021-12-22	08:30 - 09:00	Implementation of Product & Process Development	
2021-12-22	09:00 - 09:30	Customer Service	
2021-12-22	09:30 - 10:00	Corporate Responsibility & Sustainability - HQUS02.1	
2021-12-23	16:30 - 17:00	Preperation For Closing Meeting	
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Audit Summary

This report summarizes the findings of an internal audit conducted to evaluate the quality management system with application to all automotive processes for Mercury Manufacturing Corporation, it's continued effective implementation and the degree of conformance with the requirements of IATF 16949:2016, ISO 14001 and ISO 45001 the documented system, company objectives, customer requirements and core tools. The processes audited are identified on the audit schedule and audit plans.

Objectives of the Audit: The objective for this audit is to evaluate the conformity and effectiveness of Mercury Manufacturing Corporation, Mexico to IATF 16949:2016, ISO 14001 and ISO 45001 BMS, as well as the conformity to Customer Specific Requirements and Mercury Manufacturing Corporation internal documented Quality Management System. This is the system as well manufacturing internal audit.

Scope of the Audit: The scope of the audit includes the requirements of ISO 9001:2015, IATF 16949:2016, , ISO 14001:2015 and ISO 45001:2018 Customer Specific Requirements including but not limited to Ford, FCA US, GM, BMW, VW, and internal documented Quality Management System with application to all processes as per the Process Map attached. The location of the audits is as follows:

Positive Points

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Opportunities for Improvement

Category	Area/Process	Clause
OFI	Injection Molding	ISO 9001:2015 10.3
Details:	ISO 9001:2015 10.3->Continual improvement	
Process Standard:		
Attachment:		

Nonconformances

Category:	Area/Process	Clause
Major	Continual Improvement Process, Customer Service	ISO 9001:2015 4.1
Statement of nonconformance:	ISO 9001:2015 4.1->Understanding the organization and its context	
Requirements:	ISO 9001:2015 4.1-The organization shall determine external and internal issues that are relevant to its purpose and its strategic direction and that affect its ability to achieve the intended result(s) of its quality management system.The organization shall monitor and review information about these external and internal issues. NOTE 1 Issues can include positive and negative factors or conditions for consideration. NOTE 2 Understanding the external context can be facilitated by considering issues arising from legal, technological, competitive, market, cultural, social and economic environments, whether international, national, regional or local.NOTE 3 Understanding the internal context can be facilitated by considering issues related to values, culture, knowledge and performance of the organization.	
Objective Evidence:	External and internal issues	
Process Standard:	Process Measure	
Attachment		

Category:	Area/Process	Clause
Minor	Continual Improvement Process,Planning	ISO 9001:2015 6.1.1
Statement of nonconformance:	ISO 9001:2015 6.1.1->Quality management system	
Requirements:	ISO 9001:2015 6.1.1-When planning for the quality management system, the organization shall consider the issues referred to in 4.1 and the requirements referred to in 4.2 and determine the risks and opportunities that need to be addressed to: a) give assurance that the quality management system can achieve its intended result(s); b) enhance desirable effects; c) prevent, or reduce, undesired effects; d) achieve improvement	
Objective Evidence:	ISO 9001:2015 6.1.1->Quality management system	
Process Standard:	Refer Docpro for reference	
Attachment		

Corrective Action (NCR) Summary - Issued

CAR#	Standard Clause	Process	Details of Non Conformance	Response Target Date	Date Closed	Date Verified
2021-DEC-SH-ISO-PA-QPA'-1576-NC-1	ISO 9001:2015 4.1	Continual Improvement Process, Customer Service	ISO 9001:2015 4.1->Understanding the organization and its context	01/24/2022	12/21/2021	12/21/2021
	Root Cause - Described					
	Corporate IT - HQUS02.6, Corporate Finance - HQUS02.7, Corporate Business Integration and Control - HQUS02.2, Continual Improvement Process					
	Corrective Action - Counter Described					
	Verified. Just update Procedure					
	Validated					
2021-DEC-SH-ISO-PA-QPA'-1576-NC-2	ISO 9001:2015 6.1.1	Continual Improvement Process, Planning	ISO 9001:2015 6.1.1->Quality management system	02/03/2022	12/22/2021	12/22/2021
	Audit report is not reflecting (Name & Date) for Auditee Manager after approval of report					
	Signature on Audit report is not reflecting (Name & Date) for Auditee Manager after approval of report					
	& is reflecting as" &:' in OFI/NC details					
	Verification Completed. MSA Procedure updated					
	Validated					
2021-DEC-SH-ISO-PA-QPA'-1576-OFI-3	ISO 9001:2015 10.3	Injection Molding	ISO 9001:2015 10.3->Continual improvement	01/24/2022		

Conclusion

Mercury Manufacturing Corporation, Mexico to IATF 16949:2016, ISO 14001 and ISO 45001 BMS, as well as the conformity to Customer Specific Requirements and Mercury Manufacturing Corporation internal documented Quality Management System. This is the system as well manufacturing internal audit.

Name	User 08	Signature		Date	12/21/2021
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Classification : QMS	Process Internal System	> Year 2022
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Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	2.1.1	2.1.1 Equipment grounding (machine and moving parts) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.1.2	2.1.2 Grounding: avoid mixing equipment ground and earth ground <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.1.3	2.1.3 People grounding <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.1.4	2.1.4 ESD material grounded <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.1.5	2.1.5 Worksurfaces/Tracks grounded <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.2.1	2.2.1 Garments (electric field control) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.2.2	2.2.2 Plastics (electric field control) (machines, process, product, materials) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		

Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
<input type="checkbox"/>	<input type="checkbox"/>	2.3.1	2.3.1 Avoid unnecessary metals (i.e. metal fixtures hold PCBAs) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.3.2	2.3.2 Worksurfaces/Tracks (no metal-to-metal contact with product) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.1	2.4.1 Ionizer functionality (Balance voltage, Decay times) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.2	2.4.2 Ionizer effectiveness (Setup, settings, airflow, process time) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.3	2.4.3 Product (electric field control) (PCBA, components, labels, housings) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.4	2.4.4 Fixture (electric field control) (Fixture design, materials, grounding, ionizers) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.5	2.4.5 Machine/Process (electric field control) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	2.4.6	2.4.6 Shipping low charged product (electric field control) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	1	1.0 Electrostatic Discharge (ESD) Control Procedure and Program Plan <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	1.1	1.1 Electric Field Control (EFC) Control Procedure and Program Plan <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	1.2	1.2 Responsibilities & Records <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	1.3	1.3 Training program & Records <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		

Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
<input type="checkbox"/>	<input type="checkbox"/>	1.4	1.4 Site EFC coordinator, expert, or team <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	1.5	1.5 EFC qualification procedure (new equipment, process, or product) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	1.6	1.6 EFC compliance verification & records <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	3.1.1	3.1.1 Laser Mark <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.2	3.1.2 Board cleaner <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.3	3.1.3 Solder paste <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.4	3.1.4 SPI, Solder paste inspection <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.5	3.1.5 Pick-n-place <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.6	3.1.6 Oven reflow <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.7	3.1.7 X-Ray <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.8	3.1.8 AOI, solder <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.9	3.1.9 Manual inspection <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.1.10	3.1.10 Repair station <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						

Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
<input type="checkbox"/>	<input type="checkbox"/>	3.3.1	3.3.1 Component assembly <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.3.2	3.3.2 Connector install <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.3.3	3.3.3 Solder reflow <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.3.4	3.3.4 Heat sink install <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.3.5	3.3.5 Housing install <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.3.6	3.3.6 Rework <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	3.2.1	3.2.1 ICT <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.2.2	3.2.2 ICT Fixture <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.2.3	3.2.3 ICT GND first <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	3.4.1	3.4.1 Programming <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.4.2	3.4.2 EOL Functional <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.4.3	3.4.3 Burn-in <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.4.4	3.4.4 Calibration <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						

Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
<input type="checkbox"/>	<input type="checkbox"/>	3.5.1	3.5.1 Packaging materials <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.5.2	3.5.2 Charged product <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.5.3	3.5.3 Individual slots for product <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.5.4	3.5.4 No product movement <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.5.5	3.5.5 No plastic bag on product (preferred) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	3.6.1	3.6.1 Damaged during shipping <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	3.6.2	3.6.2 Charged during shipping <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	4.1.1	4.1.1 ICT Programming <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	4.1.2	4.1.2 ICT Functional (powered) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	4.2.1	4.2.1 Programming: Power up / Power down (spikes or hot switching) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	4.3.1	4.3.1 EOL Functional: Power up / Power down (spikes or hot switching) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	4.3.2	4.3.2 EOL Functional: Loads and Spikes <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		

Status	NC/OFI	S.No	Checkpoint	Score	Remarks	Attachments
<input type="checkbox"/>	<input type="checkbox"/>	4.4.1	4.4.1 Burn-in: Power up / Power down (spikes or hot switching) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	4.4.2	4.4.2 Burn-in: Loads and Spikes <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
EFC_PCBA_2021						
<input type="checkbox"/>	<input type="checkbox"/>	5.1.1	5.1.1 Bench & equipment <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	5.1.2	5.1.2 Bench & equipment: Connection sequence: GND first <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	5.1.3	5.1.3 Bench & equipment: Loads and Spikes <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		
<input type="checkbox"/>	<input type="checkbox"/>	5.1.4	5.1.4 Bench & equipment: Power up / Power down (spikes or hot switching) <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	N/A		