Carrier			Carri	er Quality Sys Cover Page				Y-52FM1 S-Mar-2021
Supplier Name:	Jemison M	letals			Supplier Site:	Sumter, SC	Plant 2 (SM2)	
Products:	Fabricated	sheet meta	al parts					
Commodity 1:	Ste	eel Fabrication	1	Commodity 2:				
Carrier Plants as C	urrent / Pote	ential Custo	mers			CLT		
Quality Certification	n(s):	ISO 9001	X	IATF 16949		AS 9100	Other_	
Expiration Date(s):	-	10-Ma	r-22					
Reason for Audit:	Initial	X	Follow-	up Audit	Re-Audit	_	Audit Date	3/30-31/2021
	This	is a supplie	er self asse	essment:				
				Carrier Au	udit Team_			
Na	ame:			Job Title	& Department / BU:			Phone:
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			_					
			_					
	Aud	it Mentor:	_				-	
				Supplier A	Nudit Team			
Na	ame:			Position:			Phone & Ema	il:
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Carrier Global Corporation QLY-52TMP, Rev. 2 Embedded Form

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Element No. /

QLY-52 FM1 - Carrier Quality Systems Audit

Audit Date:

26-Mar-2021 3/30-31/2021

Supplier:

Question

Jemison Metals

Description	Level	Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
			CATEGORY 1 - QUALITY SYS	STEM	AND	MANAGEMENT RESPONSIBILTY	
			Elemen	t 1.1	- Qua	lity System	
1.1 Quality System	2	1.1.1	Is the quality system is deployed, documented, communicated and maintained?	Y		Documented and controlled procedures, processes, specifications, work instructions exist	Corporate intranet based system and single ISO certificate for all 7 locations - some procedures are corp level, others plant specific
1.1 Quality System	2	1.1.2	Is there an approved and communicated Quality Policy?	Y		Quality Policy is documented & approved - verify employees interviewed during the audit know policy or can locate where the policy is Does the policy include a commitment to continual improvement?	Part of QM and Intranet Quality site
1.1 Quality System	2	1.1.3	Is there a organizational chart with defined responsibility for the quality management system?	Y		Responsibility for the QMS and design (if applicable) can be identified from the org chart	Org chart is for complete organizaiton - corp and plants combined
1.1 Quality System	2	1.1.4	Are communication meetings with employees held on a regular basis to cover topics important to the organization and quality system?	Y		Records exist showing that at least annually management holds some type of communication meeting with all employees	Quality onboarding presentation 2) weekly metrics review with customer complaints 3) plant coverage of specifics for plants weekly with employees
1.1 Quality System	2	1.1.5	Does the organization have adequate resources to implement the quality management system?	Y		The organization has quality engineers for production/suppliers/problem analysis and inspectors/technicians as appropriate for the organization size and product being produced.	Shared resources with Sumter Plant 1 - only a few minutes away
1.1 Quality System	2	1.1.6	Are management reviews conducted at least yearly?	Y		Verify records exist confirming reviews are held as required	Yearly only
1.1 Quality System	2	1.1.7	Do management reviews include the following:? -internal audits -customer complaints and satisfaction -status of objectives & metrics -corrective actions -supplier performance	Υ		Verify by reviewing minutes from reviews or any defined agendas, each area covered at least yearly	Very detailed covering all aspects



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date:

26-Mar-2021 3/30-31/2021

Element No. / Question **Audit Question** Description Level Number Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** 1.1 Quality N/A only for very small organizations with 3 Is the Quality organization independent? Υ 1.1.8 System limited support/management positions 1.1 Quality Are management reviews held monthly? 4 1.1.9 Yearly only System 1.1 Quality Are employee meetings held monthly? 4 1.1.10 System **Element 1.2 - Quality Metrics** The organization has identified and Are basic metrics established and tracked tracks basic performance indicators at Internal & external quality, OTD, Customer 2 1.2.1 1.2 Metrics least monthly, including some type of Complaints quality metric and customer rejects Are internal and external failure costs. Known as "Deevaluations" - scrap/ rework 3 1.2.2 Υ Example - cost of quality 1.2 Metrics tracked? costs, customer credits A metrics and communication board or Are overall organization metrics posted similar display such as a thermostat or 1.2 Metrics 3 1.2.3 Posted in plant break room near time clock visually for all to observe? scorecard exists showing metrics and aoals Is the use of metrics widespread and includes?: on time delivery Expanded quality costs would include failure rate percentage(s) Safety and environmental metrics are not 1.2 Metrics 1.2.4 scrap, rework, repair, engineering costs - first pass yield of inspection points part of overall metric "dashboard" to correct issues, and others expanded quality costs safety and environmental metrics productivity or efficiency Each area has a metrics board where Does each production line/cell track and weekly metrics such as FPY, schedule post critical metrics in the area for review 1.2.5 1.2 Metrics 4 attainment, defect rates, & others are and discussion with production tracked & displayed N/A only for an employees? organization with one production line/cell **Element 1.3 - Quality Planning** Metric displays or charts should include Goals are posted with each metric - project the current goals - other current Does top management define goals and 1.3 Planning Υ 2 1.3.1 list developed for each plant and tracked in objectives for the organization? objectives should be documented in ASANYA PM portal some manner



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date:

26-Mar-2021 3/30-31/2021

Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Goals are posted with each metric - project Do action plans to reach goals and Plans should exist with details, owners. 1.3 Planning 2 1.3.2 list developed for each plant and tracked in implement objectives exist? and due dates ASANYA PM portal Production staffing plans based on forecast customer orders - plans are Does the organization plan staffing and 1.3 Planning 2 1.3.3 proactively made and not reactionary. resource needs to meet customer orders? this includes the need for OT or additional shifts Has the supplier conducted a risk assessment with developed contingency plans when needed, of their operations Contingency plan exists that covers loss of High risks should be identified with /reduced production capability - utilize one covering: defined contingency plans defined - at a of the other fabrication plants, but Natural disasters minimum this is required for any contingency planning does not cover all 1.3 Planning Υ 3 1.3.4 Geo-political hazards aspects required by Carrer - specifically operation or process tied to supporting Supply chain disruptions Carrier orders to ensure quality and supply chain disruptions - REVISED 5/6/21 Intellectual property claims Contingency plan exists and updated to delivery is met Personnel concerns cover applicable sections Equipment problems Facility or system issues Does the organization have a long term business plan and objectives, such as a 3 Long term planning discussed and 1.3 Planning 4 1.3.5 to 5 year plan? documented yearly Does the organization hold annual enterprise risk assessment exercises Key difference between this and 1.3.4 is 1.3 Planning 1.3.6 which result in improvement plans and it is performed annually actions to mitigate identified risks? **Element 1.4 - Document and Records Control** Listing effective dates on documents iis Are quality system documents and acceptable as a reveions level. drawings controlled? Including: All documents <u>currently</u> used for 1.4 Document A. A document control procedure exists production or planning should be Control & 2 1.4.1 Corp. procedure QMP 7.5 B. All documents have identification controlled, including but not limited to: Records work instructions, procedures, forms, numbers drawings, BOMs, FMEAs, Control Plans C. Documents include revision levels etc.



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date:

26-Mar-2021 3/30-31/2021

Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Drawings are converted to Jemison 1.4 Document N/A only if the organization has design Are customer specifications or drawings drawings to add Jemison requirements -Control & 2 1.4.2 responsibility with no customer special references the customer rev. level - both in the document control system? requirements (catalog item) Records are stored and controlled 1.4 Document Are requirements for record retention Master document list identifies record Control & 2 1.4.3 defined? retention requirements Records Current requirement is 2 years - REVISED 1.4 Document Are process inspection, testing, and If record retention policy for these items 5/6/21 - system now shows retention Υ 3 traceability records maintained for at least is less than 10 years, then an action to Control & 1.4.4 requirements, with these records listed as add Carrier requirements is needed Records 10 years? indefinite (electronic) 1.4 Document Are data and documents (prints, spec & Server is in Birmingham (HQ) and backed Control & 4 1.4.5 records) backed-up and held off-site? Υ up on AZURE cloud Records **Element 1.5 - Quality System Internal Audits** Is a Quality System Internal Audit system 1.5 Internal Schedule, process, forms exist along 2 1.5.1 Υ Corp Procedure QMP 9.2 established and implemented? Audits with records Records exist verifying that audit findings Reviewed several corrective actions from 1.5 Internal Are corrective actions taken for internal 2 1.5.2 Υ are addressed through the use of the internal audits completed in the past 3 Audits audit findings? corrective action system months Team members are from at least 2 Yes - but still quality based - should 1.5 Internal Is the internal audit team cross functional 2 1.5.3 consider training employees from other departments to prevent quality from Audits to prevent conflicts of interest? functions to audit quality processes auditing quality for example Are all processes - both operations and Schedules and records cover all areas 1.5 Internal Operations - quarterly - office processes -4 1.5.4 office - audited at least once yearly? Audits with audits yearly vearly **CATEGORY 2 - RESOURCE MANAGEMENT Element 2.1 - Asset Maintenance** Planned / budgeted activities - if property is rented or leased - does the 2.1 Asset Is there a plan to maintain and preserve organization have requirements to 2.1.1 maintain overall organization/5\$ & Maintenance the building facilities? cleanliness of facility and other items under their control



Audit Date:

26-Mar-2021 3/30-31/2021

Supplier: Jemison Metals Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Is there a plan to maintain and preserve all equipment used for production, either 2.1 Asset Monthly calendars exist showing required 2 direct or indirect (fork trucks, air Υ 2.1.2 Maintenance schedule with defined tasks maintenance Maintenance compressors, etc.)? Is there a plan to maintain and preserve 2.1 Asset 2 2.1.3 IT resources? Υ Planned / budgeted activities Projects exist and ongoing Maintenance Tooling or fixtures are stored and 2.1 Asset Are tooling and fixtures properly stored All tooling observed stored in an 2 2.1.4 Υ organized to prevent damage - not in Maintenance and maintained? acceptable manner unorganized piles Do records exist verifying that the Records available and reviewed for Q1 2.1 Asset 2 maintenance plans have been completed Υ 2.1.5 2021 showed schedule followed as Maintenance planned as required? Does the organization have a full TPM Equipment is clean, no leaks, check program implemented that includes: points are visually identified, OEE data is 2.1 Asset calculating and understanding OEE for available, equipment gauges are marked 4 2.1.6 with targets, operators can explain what Maintenance equipment inspections they are required to perform defined PM activities for daily, weekly, monthly - including tasks for operators verify PM checks are being completed Are corrective actions used to prevent the 2.1 Asset Records of corrective actions taken or 2.1.7 4 reoccurrence of unexpected downtime Maintenance other documented examples events as part of the TPM program? Yearly risk analysis and actions if needed Contingenty plan covers lost/reduced 2.1 Asset Are downtime risks analyzed with 4 2.1.8 Υ critical spare parts on essential capacity - long lead time repair items developed contingency plans? Maintenance stocked by Jemison or equipment vendor equipment are identified and stocked Are actions taken to prevent IT risks such 2.1 Asset as: back-up servers, system virus 4 2.1.9 Υ Yearly risk analysis and actions if needed Maintenance protection, data back-up programs, server security measures, etc.? Element 2.2 - Calibration Gages all in Gagetrak software with Is there a documented calibration defined calibration due dates and records -Υ 2.2 Calibration 2.2.1 procedure and schedule? for calibrations done internally - consider

having procedures for each gage type



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date: 3/30-31/2021

26-Mar-2021

Element No. / Question **Description Level** Number **Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Do records exist showing the equipment 2.2 Calibration 2 2.2.2 is calibrated as required per the Υ schedule? Is out of calibration equipment removed Excess equipment marked as "Not Excess gages stored at SMT1 - segregated 2.2 Calibration 2 2.2.3 from use and segregated to avoid the use Υ Calibrated" and separated from from other gages calibrated equipment Gages have ID number - allowed by ISO Label or equivalent on all gauges / test Is all equipment identified with its 2.2 Calibration 2 2.2.4 Υ registrar due to issues with labels at calibration status? equipment with calibration due date service centers Do records exist verifying that the Gauge resolution should be <= 10% of Closed with document SM2-VA-008 on 2.2 Calibration 2 2.2.5 equipment used is suitable for the Υ total tolerance - MSA studies preferred 6/3/21 characteristics or features measured? but not required For equipment or devices that cannot be N/A only when there are no internal calibrated against a standard, do calibration activities or internal activities 2.2 Calibration 2 2.2.6 that cannot be accomplished with master documented procedures exist explaining the calibration process? gauges only When a device is found to be damaged or A form or process should be used to measuring out of specifications, are there evaluate the need for action - examples 2.2 Calibration 2 2.2.7 Part of procedures requirements to evaluate the impact on should be reviewed - N/A would be very product & the need for action? rare Do records exist showing actions were N/A would be rare but acceptable if no taken when inaccurate data is identified 2 2.2.8 equipment found to be out of 2.2 Calibration No existing examples in this plant as a result of a out of calibration specification at calibration equipment found during calibration? Have MSA studies been performed on all N/A acceptable if currently not a supplier equipment used for inspection of key for Carrier or Carrier parts have no key 2.2 Calibration 3 2.2.9 characteristics? characterisitics Are the results for MSA / Gauge R&R N/A acceptable if currently not a supplier studies 20% or less on all variable gauges for Carrier or Carrier parts have no key 2.2 Calibration 2.2.10 used for key characteristics? characterisitics Are the results for aBa MSA studies 98% N/A acceptable if currently not a supplier or better agreement for all attribute 2.2.11 2.2 Calibration 3 for Carrier or Carrier parts have no key gauges or tests used on key characterisitics characteristics?

Carrier Global Corporation Page 8 of 31



26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021 Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** N/A acceptable if currently not a supplier Are MSA studies performed at least every 2.2 Calibration 3 2.2.12 for Carrier or Carrier parts have no key 24 months? characterisitics Does the organization have examples and N/A acceptable if currently not a supplier Studies completed when previously experience performing MSA or Gauge Υ 2.2 Calibration 3 2.2.13 for Carrier or Carrier parts have no key requested by customers - several R&R studies? characterisitics examples Are MSA studies performed for 100% of the measuring devices using GR&R <10% 1 study for one gauge model number 2.2.14 2.2 Calibration 4 and test equipment and studies are where multiples exist is acceptable repeated annually? Is gauge calibration system software used for to manage calibration and location of 2.2 Calibration 4 Υ 2.2.15 Gagetrak gauges and equipment? Are all 3rd party calibration sources used Limited external calibration, but vendors AL2A accredited or certified to ISO/IEC Υ 2.2 Calibration 4 2.2.16 are 17025 accredited 17025? Does the organization have a Verify employees understand what is documented and enforced "dropped 2.2 Calibration 4 2.2.17 Informal policy in place not documented required if they drop a gauge gauge" policy? **Element 2.3 - Employee Competency** Does the organization have job Reviewed descriptions for: material descriptions with required work 2.3 Employee 2 2.3.1 Υ handler, laser operator, press brake Skills experience, skills, and education for each operator position? Process is documented & defines who is Does the organization have a 2.3 Employee qualified to train & when retraining is Defined in SOP #1 - trainers identified on 2 documented training process for 2.3.2 Υ Skills required (process change, return from the training matrix production employees?

2.3 Employee Skills	2	2.3.3	Are processes being performed by trained personnel with verifiable records?	Y	floor audit and verify their qualification	Checked 4 employees - all idnetified as fully trained or able to train (Jeffrey, Eddie, Greg, and Jackie)				
2.3 Employee Skills	2	2.3.4	Are production employees trained on the non-conformance process and requirements?	Y	Examine training records / basic training package	part of Qualty on-boarding training				
Carrier Global C	Carrier Global Corporation Page 9 of 3 ^o									

long absence, etc.)



26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
2.3 Employee Skills	3	2.3.5	Is there a process to periodically survey employees on their job satisfaction and/or engagement?	Y		Some type of survey and results	Employees are not surveyed but Jemison does use EABs - Employee Advisory Boards - in each plant to collect suggestions and suggest improvements to improve engagement and employee satisfaction - very active and successful
2.3 Employee Skills	3	2.3.6	Does the organization ensure each process has > 1 employee trained & perform cross training as needed to mitigate absences?	Υ		"Back-up" for each station / operation available - no process is dependent on one employee	All positions in matrix have at least 2 employees cross trained if not more
2.3 Employee Skills	4	2.3.7	Are industry certifications encouraged and available for specialized processes?		х	Examples - AWS Certified Welder, ASQ Certified Quality Engineer	
2.3 Employee Skills	4	2.3.8	Does the organization have a formal training program including quality & related programs such as: problem solving, process control, process improvement, cycle time reduction, etc.?	N			
2.3 Employee Skills	4	2.3.9	Is employee training tracked through the use of a skills matrix that allows supervision to easily understand who is qualified to work in each station or task?	Y			Training / skills matrix are used similar to Carrier facilities
2.3 Employee Skills	4	2.3.10	Does the training /skills tracking include management and support personnel ?	Υ		Skills matrix for key support processes with backups trained for each	Quallity and management were included
2.3 Employee Skills	4	2.3.11	Does the supplier has a code of conduct / business ethics program?	N		Ensures at a minimum that the company complies with all applicable laws & regulations, assures a safe work environment, & prohibits forced and child labor	Not documented
2.3 Employee Skills	4	2.3.12	Are employees cross trained with job rotation practiced to enable a flexible work environment?	N		Employees rotate positions at least weekly	Rotation is not done weekly
2.3 Employee Skills	4	2.3.13	Are action plans to improve employee satisfaction actively being completed and satisfaction scores improving over time?	N			Plans are completed but level of satisfaction is not assessed



26-Mar-2021

Supplier:Jemison MetalsAudit Date:3/30-31/2021

Element No. / Question
Description Level Number

Audit Question Y/N N/A Things To Look For / Notes Auditor Notes/ Evidence Reviewed

Description	LEVE	Nullibel	Audit Question	1719	N/A Things to Look For / Notes	Auditor Notes/ Evidence Reviewed
			CATEGORY 3 -	CUST	TOMER REQUIREMENTS	
			Element	3.1 -	Contract Review	
3.1 Contract Review	2	3.1.1	Does a documented contract/ order review process exist which requires verification that: - the delivery date can be met - the product specifications or any special requirements can be met	Y	Verify records exist that show the process is being followed	2 procedures - QMP 8.1 - covers "award review" for new business , COP 1 covers contract review for PO releases
3.1 Contract Review	2	3.1.2	Does the organization provide an order confirmation / acknowledgement to the customer?	Y		Reviewed examples
3.1 Contract Review	2	3.1.3	Do change orders flow through the same reviews and approvals as new orders?	Y	When quantities, delivery, or specifications are changed on an order by the customer	Reviewed examples
3.1 Contract Review	3	3.1.4	Are corrective actions taken when failures occur due to failures in the contract review process?	Υ	N/A only if there are no documented escapes or defects from the process	Customer 8D created for escape - 2/21/21
3.1 Contract Review	4	3.1.5	No repeat escapes due to the contract review process in the past 12 months	N		
			Element 3.2	2 - Cu	stomer Satisfaction	
3.2 Customer Satisfaction	2	3.2.1	Is there process to capture customer satisfaction levels at least yearly?	Y		Basic - using customer returns/complaints - surveys were not successful in the past
3.2 Customer Satisfaction	3	3.2.2	Are business and performance reviews held with customers at least yearly?	Υ	Meeting schedule and minutes exist	Completed by territory sales managers - reviewed minutes
3.2 Customer Satisfaction	4	3.2.3	Does the customer satisfaction system: - use a method such as a survey which provides a measure of the level of customer satisfaction - with goals and actions to improve satisfaction when required - with a trend of improving satisfaction or maintaining a high level	N	Level of customer satisfaction is on a scale of 1-7 for example - Improvement actions are created and implemented to increase customer satisfaction	
			Element 3.3 - So	chedu	ıling & Material Planning	
3.3 Scheduling / Material Planning	2	3.3.1	Are production schedules created based on meeting promised ship / delivery dates?	Υ	Promised ship / delivery dates are part of the process when creating schedules	scheduling completed in FIT system (extension of AS400 based ERP system) - ship / due dates part of tool



26-Mar-2021

 Supplier:
 Jemison Metals
 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
3.3 Scheduling / Material Planning	2	3.3.2	Are customers contacted when it is known that promised ship dates will not be met due to any issue?	Y		Records / emails showing when customers have been notified that ship dates will not be met	Reviewed correspondance between inside sales rep and customers on orders shipping late due to raw material shortages currently happening
3.3 Scheduling / Material Planning	2	3.3.3	Does the organization manage lead times and inventories of parts to meet production schedules?	Y		Orders & forecasts are used to identify material demand & drive purchase orders and/or expediting actions to ensure material availability	
3.3 Scheduling / Material Planning	4	3.3.4	Are common low value parts and material inventory levels managed using Kanban systems?	Y			Min/max on common raw material sizes & grades
3.3 Scheduling / Material Planning	4	3.3.5	Does the organization work with long lead time suppliers to reduce lead times & take actions to mitigate possible shortages due to spikes in demand?			Weekly schedules & forecast are provided, Improvement events held, contracts with agreed safety stock requirements, consignment arrangements	Actively work with mills for allotment and expected capacities
3.3 Scheduling / Material Planning	4	3.3.6	Is there a documented contingency plan for production (equipment, utilities, labor & sub-suppliers) to meet customer requirements?	Y		"Back-up" plans exist to ensure continued production	Covered previously - plan is to use resources in other Jemison facilities
						LIZATION AND CONTROL	
			Element 4.1 - Nev	w Pro	duct	Introduction Process	
4.1 New Product Introduction	2	4.1.1	Does a new product introduction procedure exist and used?	Y		Documented procedure or similar documents defining requirements - verify records exist showing the process is followed	QMP 8.1 Award Review is the driver for this - based mainly on sheet metal CTL busness

Carrier Global Corporation Page 12 of 31



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date:

3/30-31/2021

26-Mar-2021

Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Does the procedure define the following?: required process stages when reviews are required No design responsibility actions - cut to authorities and responsibilities 4.1 New length steel or contract manufacturing of - required activities for design verification Items with * are N/A if the supplier has no Product 2 4.1.2 fabrication only - so very limited - does and validation to requirements* design responsibility require cross functional meeting and Introduction - required qualification activities for approval purchased products or services required documents to show requirements have been met Does the procedure require?: defining functional and performance requirements* customer input to requirements* verification of any statutory, regulatory, or other applicable requirements * activities to consider potential consequences of failure · defined project goals and tracking of No design responsibility actions - cut to 4.1 New results to goals length steel or contract manufacturing of Items with * are N/A if the supplier has no 2 Product 4.1.3 - minutes & other documentation that Υ fabrication only - so very limited - does design responsibility require cross functional meeting and Introduction must be retained approval - cross functional participation activities / deliverables from each major function such as: engineering*, operations, quality, and supply chain - identifying product characteristics that are essential to the product function / safe operation* - the review of any changes made during or after development for possible impact

Carrier Global Corporation Page 13 of 31



Audit Date:

26-Mar-2021 3/30-31/2021

Supplier: Jemison Metals

Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Is the creation of DFMEAs required as part of the new product introduction and: defined criteria similar to AIAG criteria is 4.1 New N/A if supplier does not have design 3 Product 4.1.4 used and it is consistently applied responsibility Review examples from product launches - Do example DFMEAs show that actions Introduction are identified and completed on high RPN items? Is the creation of Process Flow Diagrams, 4.1 New Not required but not needed - PFDs. PFMEAs, and Control Plans required as Υ Product 3 4.1.5 PFMEAs, Control Plans exist by process part of the new product introduction Introduction with standard controls utilized process? For identified key characteristics developed internally or provided by 4.1 New customers are there requirements to N/A only if no key characteristics exist 3 Product 4.1.6 currently validate measuring & testing equipment Introduction through MSA studies, apply SPC, and achieve defined capability goals? Does a change control procedure exist 4.1 New and does it require obtaining customer Verify the process is followed by Product 3 4.1.7 Deviation process and records reviewed approval for any design or process reviewing deviation/concession records Introduction changes? Is the development and review of 4.1 New processes that occur after the release of These areas are in the PFMEAs and Packaging is defined as part of the process Product 3 4.1.8 product included in the procedure, Control Plans as well as shipping Introduction including packaging and shipping? Are advanced tools such as Design of 4.1 New Experiments, Modeling & Simulation, Records of these tools being used with a Quality Function Deployment, Design for Product 4 4.1.9 Ν product introduction Manufacturing, and 3P required in the Introduction new product introduction process? Element 4.2 - Purchasing Does a process or requirements for the Verify the process is followed by Procedure QMP 8.4 New Supplier 4.2 2 evaluation, selection, and approval of Υ reviewing evaluation records - N/A 4.2.1 Evalutation and Approval - with Purchasing assessment and evaluation checklist allowed for directed buys only suppliers exist?



26-Mar-2021

Jemison Metals Supplier: Audit Date: 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
4.2 Purchasing	2	4.2.2	Is a method in place that monitors the performance of suppliers?	Υ		Verify metrics exist and are maintained at least monthly	Metrics tracked
4.2 Purchasing	2	4.2.3	Are corrective actions requested from suppliers when the provided products or services fail to meet requirements?	Υ		Verify by reviewing records of supplier corrective actions	Reviewed recent examples
4.2 Purchasing	2	4.2.4	Is the purchasing process defined and followed with controls in place to restrict the ability to place purchase orders by only authorized employees using only approved suppliers?	Y		2) Password protected system or all POs are reviewed and approved.	Defined in SOP #2, ERP system is acess controlled and serves as approved supplier list - cannot order from suppliers not in ERP, can not be entered into ERP unless approvedd
4.2 Purchasing	2	4.2.5	Are the following communicated to suppliers when placing purchase orders? - Current product drawings or specifications - Approval requirements for first time orders/shipment - Required delivery date and shipping requirements	Υ			Reviewed examples for different steel mills
4.2 Purchasing	2	4.2.6	Does the organization have controls in place to ensure that purchased products meet requirements such as any of the following: - incoming inspection - the use of PPAP - First Article Inspection	Y		Verify records exist showing parts or materials have been reviewed and verified to meet requirements	Only suppliers are steel mills supplying raw material - so basic dimension / BOL check along with material cert review and approval
4.2 Purchasing	3	4.2.7	Does the organization use the PPAP process with its suppliers when sourcing product or services to verify requirements are met and to approve the product or service for use?		x	N/A acceptable if the supplier currently does not supply Carrier or there are no Carrier sub tier components with key characterisitics or special requirements	
4.2 Purchasing	3	4.2.8	Does the organization identify key characteristics that their suppliers must implement ProCert or certified processes for (MSA, SPC, Capability)?		x	N/A acceptable if the supplier currently does not supply Carrier or there are no Carrier sub tier components with key characterisitics or special requirements	



26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021 Flement No. / Question

Element No. / Description		Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
4.2 Purchasing	3	4.2.9	Does the organization require and have a process with their suppliers to enforce change control at the suppliers and approval by the organization?		х	N/A only if organization purchases raw materials and/or catalog type items	Raw materials only at SM1 - SM2 purchases blanks internally
4.2 Purchasing	3	4.2.10	Is both supplier quality and delivery performance monitored?	Y			Quarterly scorecards sent to suppliers with OTD, Quality score, Responsiveness score
4.2 Purchasing	3	4.2.11	Is incoming material quarantined and unavailable for production until released by quality?	Y		Parts / materials are in a "unavailable" status in the ERP/MRP system - N/A allowed if no incoming inspection exists	Not entered into ERP until BOL confirmed (SM2)
4.2 Purchasing	4	4.2.12	Do yearly supplier development goals exist with defined actions that will improve supplier PPM and/or OTD?	N			
4.2 Purchasing	4	4.2.13	Does the supplier selection and evaluation process include understanding?: - capacity & lead time - technical abilities of the supplier - risks, (financial, natural disasters, etc.)	Y			Evaluation sheet includes these items
4.2 Purchasing	4	4.2.14	Are performance / action reviews are held with identified <u>priority</u> suppliers on a monthly basis? Are scorecards or the equivalent used to provide feedback to both <u>key</u> and <u>priority</u> suppliers on a regular basis?	N		Example - key suppliers are top 80% of spend, priority suppliers may be those key suppliers that are underperforming or the top 20% of spend	
4.2 Purchasing	4	4.2.15	Has the organization captured it's requirements for suppliers in a Supplier Quality Manual or other document that is shared with suppliers?	N			
4.2 Purchasing	4	4.2.16	Does incoming inspection measure key characteristics on products or materials and use the data to track capability with reaction plans for when capability requirements are not met?		х	N/A only if organization purchases raw materials, catalog type items, or no key characteristics exist	
			Element 4.3 - P	roces	ss Pla	anning and Control	



26-Mar-2021

 Supplier:
 Jemison Metals
 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
4.3 Process Planning / Control	2	4.3.1	Are the processing steps for products clearly defined in some manner and include the required controls (measurement, documentation, or testing activities)?	Y			Job work orders cover requirements, material requirements, forms for inspection requirments
4.3 Process Planning / Control	2	4.3.2	Are documents defining the product characteristics and requirements available in the work area (drawings or other controlled documents)?	Υ			Drawings are part of the job work order packet
4.3 Process Planning / Control	2	4.3.3	Are necessary work instructions available in the work area that agree with process steps & defined controls & are those documents controlled?	Υ			Electronic
4.3 Process Planning / Control	2	4.3.4	Are suitable gauges, test equipment, or other devices available in the work area as required for the defined controls?	Y			
4.3 Process Planning / Control	2	4.3.5	Are employees performing the process and controls as defined in the work instructions or other requirements?	Y		During the floor audit, pick several stations, review the work instructions, and observe employees performing the tasks	No evidence found on multiple job work order packets that required inspections had been completed REVISED 5/6/21- action taken to correct
4.3 Process Planning / Control	2	4.3.6	If required, are any traceability requirements on key components documented?	Y		N/A only if no traceability requirements exist	Heat codes of material are tracked from SMT
4.3 Process Planning / Control	2	4.3.7	Are there final inspections / pack audits with defined criteria and frequencies in place to validate the effectiveness of in process controls?	Υ		Inspections or audits should after production has completed and released product - this should include packaging and labeling	Finished goods are audited for correct packaging, quantities, damage, and basic dimensions to print
4.3 Process Planning / Control	2	4.3.8	Does the supplier take actions to qualify any new equipment that is purchased or existing equipment that is modified?	Υ		Test runs with 100% inspection to verify ability of the equipment or capabilities for example	REVISED - 5/6/21 - Records retrieved or studies completed on equipment and presented
4.3 Process Planning / Control	2	4.3.9	Is product / material status identified in regards to inspection / testing status throughout the process?	Y		Product status is tracked electronically or visibly on the product or travelers. If process has single piece flow with automation that prevents unapproved product from moving forward this is acceptable.	On job orders

Carrier Global Corporation Page 17 of 31



26-Mar-2021

Supplier:

Jemison Metals

Audit Date: 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
4.3 Process Planning / Control	2	4.3.10	Are records of measurements, inspections, or tests retained and do those records indicate who performed the inspection or test?	Υ		On job orders
4.3 Process Planning / Control	3	4.3.11	Do process flow diagrams, PFMEAs, and control plans exist for some products and: - the process steps in each match - defined rating criteria similar to AIAG criteria is used & consistently applied - actions are identified and completed on high RPN items	Υ	If the organization does not use these tools / have never been asked to do so, answer as "no" Pay particular attention to detection ratings - visual inspections should be no lower than 8 Highest RPN issues should have actions defined and completed or in process	Process based - lasers and press brakes
4.3 Process Planning / Control	3	4.3.12	Do existing control plans follow a format similar to the AIAG format with: - key characteristics identified - setup parameters & requirements - required sample size and frequency - defined signals and reaction plans? - control plans are controlled documents	Υ		
4.3 Process Planning / Control	3	4.3.13	Is SPC in place for some key characteristics (typically when requested by a customer) and the processes are kept in control?	Υ	If the organization does not use these tools at all / have never been asked to do so, answer as "no"	N/A - no KPCs, Jemison has experience doing this when requested
4.3 Process Planning / Control	3	4.3.14	Are process capabilities known for some processes and the Cpk values are >= 1.33 or 100% inspection is in place when the process is not capable?	Υ	If the organization does not use these tools, answer as "no" - 100% inspection must be with a qualified instrument	N/A - no KPCs, Jemison has experience doing this when requested
4.3 Process Planning / Control	3	4.3.15	Are control plans being followed in production?	Y	Observe several stations or operations to ensure all controls are being followed as documented in the control plan	REVISED 5/6/21 = actions taken to correct issues identified duringthe audit
4.3 Process Planning / Control	3	4.3.16	Does a layered audit process exist that verifies compliance to work instructions and other requirements with auditable records?	Υ	Verify records exist to show that daily, weekly, monthly requirements are completed	REVISED 5/6/21 - layered audits implemented with auditable records



QLY-52 FM1 - Carrier Quality Systems Audit

Jemison Metals

Audit Date:

3/30-31/2021

26-Mar-2021

Element No. / Question Description Level Number **Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Are AMC requirements (if applicable) met 4.3 Process Planning / 3 4.3.17 for any existing Carrier products or N/A allowed if no defined AMCs Control materials? 4.3 Process Are any changes to packaging, labeling, barcoding, or shipment routing approved Planning / 3 4.3.18 X by the customer prior to implementation? Control Do all processes and/or products have 4.3 Process PFMEAs and Control Plans, these Planning / 4 4.3.19 documents are part of the supplier's Control operating system & normal processes? Does the supplier use SPC and capability 4.3 Process tracking to control processes that they have deemed key without the need being Planning / 4 4.3.20 dictated by customers and is this data Control communicated / visible to employees? Do operators have the ability and are 1)Operators are able to inspect and required to perform inspections reject product - not reliant on inspectors independent of quality resources? 2) Verify how operators understand SPC 4.3 Process Inspections performed by operators - no If manual SPC is used do the operators does a training exist for operators to Planning / 4 4.3.21 SPC in use learn from? Control record results & understand when 3) If all SPC is automatically controlled reactions are required based on the answer as "Y" control chart & established rules? Does the organization have an expert 4.3 Process process control resource(s) within the Planning / 4 4.3.22 organization (Six Sigma Black Belt or Control equivalent)? Are test result metrics such as FPY are 4.3 Process posted and communicated in the product Planning / 4 4.3.23 areas and discussed as part of production Control meetings? Are all PFMEAs and DFMEAs updated DFMEA not required for suppliers with no 4.3 Process yearly or every time that processes or design responsibility - PFMEA required 4 4.3.24 Planning / product changes occur? for any and all Control **Element 4.4 - Non-Conforming Product & Change Control**



Audit Date:

3/30-31/2021

26-Mar-2021

Supplier:

Jemison Metals

Element No. / Question **Description Level Number** Y/N N/A **Audit Question** Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Does a defined, documented process exist to identify & control non-conforming 4.4 / Non-Verify records exist that show the details product to prevent unintended use or Conformance 2 4.4.1 of non-conformances, disposition of the Corp procedure 8.7 shipment that includes requirements for Control product / material, and other actions the non-conformances to be reviewed and dispositioned by authorized employees? Is non-conforming material on the property tagged, marked, or identified in 4.4 / Nonsome manner to show that it is non-Examples - clearly marked hold / reject Conformance 2 4.4.2 areas or electronic controls conforming (on hold, rejected, suspect, Control etc.) & contained by acceptable means such as segregation? If non-conforming material is repaired or 4.4 / Nonreworked is it required to go back through N/A allowed only if rework and repair is Conformance 2 4.4.3 the normal production inspection / test not an option Control points? If non-conforming material is to be used N/A allowed only if all non-conforming 4.4 / Non-"as is" with identified non-conformances product is corrected or scrapped - check Deviation form and records exist - limited Υ Conformance 2 4.4.4 to requirements - does this require an and review records of deviations or deviations requested or needed approved concession / deviation that also concessions to verify the process is Control followed includes customer approval? Does the non-conformance procedure include determining if any product has Procedure should include determining if 4.4 / Nonpotentially shipped to customers with the the non-conformance could have Conformance 3 4.4.5 identified non-conformance, and if so, escaped and taking action with the Control contacting customers to have the produt customer. quarantined? Central hold / reject area - for large items Is the non-conforming product/material 4.4 / Nona mistake proofed (physical or electronic) segregation area is secured with limited Υ Conformance 4 4.4.6 method to prevent use is an acceptable hold / reject area exists access to prevent unauthorized use of the option when the item is too large for the Control product or material? hold area or difficult to move



Audit Date:

26-Mar-2021 3/30-31/2021

Supplier: Jemison Metals

Element No. / Question **Description Level Number Audit Question** Y/N N/A Things To Look For / Notes **Auditor Notes/ Evidence Reviewed** Work station hold / reject area when 4.4 / Non-Are segregation bins on the production product is consistent in size & shape line secured to prevent removal of Conformance 4 4.4.7 Inconsisent size/shapes N/A if product or material are not Control objects? consistent 4.4 / Non-Does the organization utilize MRBs N/A in very small organizations with Qualty and materials management part of consisting of cross functional members to Conformance 4 4.4.8 Υ limited support staff weekly MRB for higher level items review & disposition non-conformances? MRB = Material Review Board Control 4.4 / Non-Are non-conformances typically reviewed 4 4.4.9 Conformance 14 day goal currently and processed in less than 1 week? Control Do non-conformances drive the creation 4.4 / Nonof corrective actions with suppliers or Conformance 4 4.4.10 internally to prevent reoccurrences Control (records exist)? Is non-conforming material that is 4.4 / Nondispositioned as scrap or dispose marked Conformance 4 4.4.11 or altered in a permanent manner to Control prevent unauthorized use? Does the supplier have an established 4.4 / Noncontainment process to follow when non-In quality manual - evidence of use in Conformance 4 4.4.12 conformances may have escaped the corrective actions Control production process? Element 4.5 - Packaging and Handling Product is not stacked on pallets with Does the handling and storage of the 4.5 Packaging product hanging over the pallet, products product through the manufacturing 2 4.5.1 Υ that are not designed to be exposed to / Handling process ensure no part damage? elements are not stored outside Is a process in place to ensure packaging 4.5 Packaging specifications meet customer 4.5.2 Υ Packaging is approved by the customer Instructions on job order requirements including labeling, bar / Handling coding and delivery? Is a process in place to select the 4.5 Packaging appropriate transportation based on the N/A if Carrier arranges or defines 2 4.5.3 Arranged by current customers nature of the product or customer / Handling shipping requirements?



26-Mar-2021

 Supplier:
 Jemison Metals

 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
4.5 Packaging / Handling	2	4.5.4	If applicable, do bulk containers holding multiple items have a label that clearly identifies the contents?	Y			Required by some customers
4.5 Packaging / Handling	2	4.5.5	Are any changes to packaging, labeling, barcoding, or shipment routing approved by the customer prior to implementation?	Y			
4.5 Packaging / Handling	2	4.5.6	Is the labeling process robust to ensure no labeling errors, including verification of bar codes?	Y		Some level of mistake proofing such as single piece flow, etc bar codes are read as part of the process or tested for readability	
4.5 Packaging / Handling	3	4.5.7	Has the shipping and packaging method been validated with customers?	Υ		Packaging and shipping methods have been used and confirmed to be acceptable	
4.5 Packaging / Handling	4	4.5.8	Is packaging periodically analyzed for adequacy in preventing damage and deterioration?	N		Improvements made based on any damage claims or complaints	
4.5 Packaging / Handling	4	4.5.9	Does the supplier uses Kanban or other JIT techniques to reduce handling and in process inventories?	N		N/A ok for low volume suppliers	
4.5 Packaging / Handling	4	4.5.10	Does the supplier use returnable containers where applicable?	Y		N/A ok for low volume suppliers	As per customer requirements
4.5 Packaging / Handling	4	4.5.11	Has the supplier had no shipping damage over the past 12 months due to packaging issues?	N		For any customer	
						NS & PREVENTIVE MEASURES	
			Element	5.1 - (Corre	ctive Actions	
5.1 Corrective Actions	2	5.1.1	Is there a documented corrective action system that includes the following: - review & analysis of the nonconformity to determine cause(s) - determining if similar nonconformities could occur or exist - implementation of needed actions and review of action effectiveness - required records of the problems	Y		Forms or documented procedures exist defining details, causes are determined but may be symptoms instead of the root cause - very basic corrective action system - verify that records exist showing that the system is being used on a regular basis	action system built into the FIT system -



26-Mar-2021

 Supplier:
 Jemison Metals
 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
5.1 Corrective Actions	2	5.1.2	Are the corrective actions taken appropriate for the nonconformities / problems encountered?	Υ		Examples - low impact/low volume issues my have actions that improve detection of problems - high impact / high	Observation - some actions are operator training - try to focus on process improvement to prevent issues or to detect them interally
5.1 Corrective Actions	3	5.1.3	Does the supplier's corrective actions include the following: 1) Root cause determination within a reasonable time 2) Containment action (short-term corrective action) within 24 hours of Carrier request, 3) Permanent (long-term) action, 4) Implementation plan with due dates 5) Disposition of suspect material, 6) Focus on mistake-proof solutions	Y		More advanced corrective action process requiring identifying root cause and other requirements listed in the question - verify that corrective action examples demonstrate that actions taken effectively focus on true root cause and not symptoms	Examples show good consideration for containment activities
5.1 Corrective Actions	3	5.1.4	Are proposed corrective action(s) for customer issues approved by the customer?	Y		N/A only if no customer issues reported	When required or requested by customers
5.1 Corrective Actions	4	5.1.5	Have PFMEAs been updated based on the non-occurrence and actions taken as part of the corrective action process?	N			
5.1 Corrective Actions	4	5.1.6	Have actions or changes made as part of the corrective action been added to layered process audits to monitor and ensure effectiveness?	N		Ask to see where questions have been added as a result of a corrective action. If no layered audits answer this question as "N"	Layered Process Audits do not exist
5.1 Corrective Actions	4	5.1.7	Does supplier use standard root cause analysis tools such as Ichikawa diagrams or 5 Whys when required?	N		Other tools can be used - but documenting and showing how root cause was determined should be required	
5.1 Corrective Actions	4	5.1.8	Are cross functional teams used for most corrective actions?	N		Simple, quick fix issues may not need a cross functional team	
5.1 Corrective Actions	4	5.1.9	Are corrective action (fast response) boards, Quality Clinics, or other team based action acceleration approaches in use?	N			



26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021

Element No. / Question

Description Level Number Audit Question Y/N N/A Things To Look For / Notes Auditor Notes/ Evidence Reviewed

Description	Level	Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
			Element	5.2 - (Custo	omer Support	
5.2 Customer Support	2	5.2.1	Does the supplier have a formal process and designated responsibility for handling customer issues?	Y		Central customer service contact point - very that records exist and kept showing that customer issues or complaints are handled	Sales rep is responsible - reports complaints into the Case System for resolution and CA if needed
5.2 Customer Support	2	5.2.2	Do customer complaints or issues result in the use of corrective actions to eliminate the causes and prevent reoccurrence?	Y		Examples of corrective actions taken for some customer issues, verify that records of corrective actions exist for reported issues	Reviewed recent examples
5.2 Customer Support	3	5.2.3	Does the organization have a dedicated customer service contact as the central contact for all customer issues?	Y		N/A for small organizations with limited support staff	Each customer has specified contact
5.2 Customer Support	3	5.2.4	Does the supplier have resources available to perform containment / rework activities at customer sites when needed or contract in place with a 3rd party service provider?	Y		The supplier has plans or arrangements in place to enable their employees to travel to suppliers or a 3rd party "ready to go"	Plant resources from all locations as needed - have used a 3rd party in the past when needed
5.2 Customer Support	3	5.2.5	Does the organization have technical resources available to assist with customer complaints and issues when needed?		x	N/A only for suppliers with no design responsibility - ask who would provide support if a customer needs help with an technical issue	
5.2 Customer Support	3	5.2.6	Does the supplier have a formal procedure for analyzing customer returned product?	Y		RMA process resulting in a report on the cause and problem (example) that is documented in some manner	Case system covers returns, credits, corrective actions, investigation
5.2 Customer Support	4	5.2.7	Does the organization have dedicated global technical resources available?		х	N/A only for suppliers with no design responsibility - for those with design responsibility we are looking to see if they can provide technical support 24 hrs./day	
5.2 Customer Support	4	5.2.8	Does the organization have advanced laboratories & defect analysis capabilities for sophisticated root cause analysis needs?		x	N/A only for contract suppliers with no design responsibility	
			Element 5	.3 - Pı	reven	tive Measures	
5.3 Preventive Measures	2	5.3.1	Does the supplier use some type of risk assessment activity to identify and take action on potential problems / potential non-conformances?	Y		PFMEAs and DFMEAs preferred but other methods can be used	Risk assessments are part of/covered in management reviews



26-Mar-2021

 Supplier:
 Jemison Metals
 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/	A Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
5.3 Preventive Measures	2	5.3.2	Is there evidence of the application of preventive measures applied in some processes such as: mistake proofing, asymmetrical designs, the use of template and fixtures, etc.?	Y		During floor audit observe and ask questions to identify examples.	Laser etching to identify bend #1 for example
5.3 Preventive Measures	4	5.3.3	Does a pro-active program exist to teach & encourage the identification of mistake proofing opportunities and solutions within the organization?	N			
5.3 Preventive Measures	4	5.3.4	Does an employee suggestion system for process improvements exist that is utilized to generate improvement ideas?	N			
			CATEGORY 6 - ENVI	RON	ME	NTAL, HEALTH, & SAFETY	
			Element 6.1 - Environ	ment	tal,	Health, and Safety Systems	
6.1 EH&S	2	6.1.1	Are employees required to use PPE and are the requirements enforced?	Y		Requirements are posted and employees are not observed during the audit not following the requirements	Minial requirements
6.1 EH&S	2	6.1.2	Are machines being operated with safety guards in place?	Y		No missing or bypassed guards seen during floor audit	
6.1 EH&S	2	6.1.3	Is the environment suitable for the processes and inspections?	Y		Lighting, temperature, noise, the floors are clear of any hazards (oil or water on floor, debris), or other factors	
6.1 EH&S	3	6.1.4	Do basic recycling efforts exist (wood, paper, plastic)?	Y			
6.1 EH&S	3	6.1.5	Are lockout tagout procedures are in place?	Y			Procedure SAF028
6.1 EH&S	4	6.1.6	Does the organization have a EH&S manager and documented EH&S management system with goals and metrics?	Υ		Small organizations may not have a dedicated manager, but responsibility for EH&S should be defined	Larry Strimple is Corp EHS Mgr - fully documented system - very thorough



26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
6.1 EH&S	4	6.1.7	Does the supplier use root cause analysis following all serious or fatal injuries and takes proactive actions on near misses?	Y			Requirements are in procedure SAF153 - Accident Investigation, reviewed example
6.1 EH&S	4	6.1.8	Are scheduled safety walks performed, concerns addressed and resolved?	Y		Monthly walks (minimum) with defined checklists and resulting actions	Monthly & weekly checklists are completed in each facility SAF104 & SAF115
6.1 EH&S	4	6.1.9	Is EH&S metrics and other information displayed on status boards and there are positive trends over the past 2 years?	N		MSDS displays and other information	Basic information posted - but trends/goals are not
6.1 EH&S	4	6.1.10	Is EH&S hazard information part of standard work?	Υ		Safety or environmental risks are in the work instructions as warnings	
6.1 EH&S	4	6.1.11	Are equipment, process, and employee hazards systematically identified and addressed?	N		Safety and ergonomics	A basic hazard analysis exists, but it not as through and comprehensive as expected for level 4
6.1 EH&S	4	6.1.12	Has the facility operated free of serious injuries and fatalities for at least the last 12 months?	Y			No serious injuries in > 1 year
6.1 EH&S	4	6.1.13	Is the supplier ISO 14001 certified?	N			
						DUS IMPROVEMENT	
			EI	emen	t 7.1	- Lean	
7.1 Lean	2	7.1.1	Does the organization identify improvement opportunities and implement actions?	Y		Process improvements with new equipment - plans to repair equipment to increase uptime / improve capability - any improvement examples that are planned and carried out yearly	Improvement plans and projects exist/reviewed
7.1 Lean	3	7.1.2	Is overall workplace organization and cleanliness acceptable?	Y		Defined storage areas and WIP queues, shelves and bins are clearly marked, aisles marked and clear of material, gauges / fixtures are property stored,	
7.1 Lean	3	7.1.3	Is the planned production goal for the day posted so that employees know what needs to be accomplished?	Y		A schedule board is in use - N/A at auditor discretion	Production schedule available to all employees



26-Mar-2021

 Supplier:
 Jemison Metals

 Audit Date:
 3/30-31/2021

Element No. / Description	Level	Question Number	Audit Question	Y/N	N/A Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
7.1 Lean	4	7.1.4	Is there a continuous improvement / operational excellence program with a leader and/or group?	N	Such as a manager and / or pilots	
7.1 Lean	4	7.1.5	Are all process or part families defined and have current state value stream maps?	N		
7.1 Lean	4	7.1.6	Do future state value stream maps and plans exist for each family?	N		
7.1 Lean	4	7.1.7	Have cross functional teams been used in value stream and Kaizen events?	N	Verify Kaizen events have also been used to implement future state plans	
7.1 Lean	4	7.1.8	Is there a formal 5-S program in place?	N	Shadow boarding in use in all areas, all items have homes and in place, ratings are known	
7.1 Lean	4	7.1.9	Is Takt Time calculated and known?	N		Difficult for mixed contract maunfacturing
			Elemen	t 7.2	- Cost Reduction	
7.2 Cost Reduction	2	7.2.1	Does the organization identify and act on cost savings or cost avoidance opportunities?	Y	Ask to see examples of identified projects and results	Utilizes a program called SWEEP to identify opportunities internally and with customers
7.2 Cost Reduction	4	7.2.2	Does the organization have a program where cost savings opportunities are identified and implemented based on: - lower cost sourcing / supplier negotiation - value engineering design changes - use of new technology or automation to reduce overall costs	N	Verify program also has yearly goals and actions planned to reach those goals	

Carrier Global Corporation Page 27 of 31



26-Mar-2021

Commodity Assessment

Supplier:Jemison MetalsAudit Date:3/30-31/2021

					-	
Commodity	Question Number	Commodity Requirement	Y/N	N/A	Things To Look For / Notes	Auditor Notes/ Evidence Reviewed
Steel Fabrication	180	Sheet metal / stampings - are sharp edge controls / checks in place?	Y		Example - sharp edge tester used on a regular basis that meets IEC60950, EN 60950, or UL 1439 requirements	Checks in place - risk minimal with lasers
Steel Fabrication	181	Is tooling managed in an acceptable manner?	Y		Tooling is not used until a failure or defect occurs - proactive measures are in place	
Steel Fabrication	182	Does the supplier have a inspection surface plate and equipment to inspect flatness?	Y		Surface plate should be large enough for all parts to be produced	Large surface plate with CMM (Romer) arm

Carrier Global Corporation Page 28 of 31

Carrier Quality Systems Audit Summary

Audit Date: 3/30-31/2021

QLY-52FM1 Release 3/26/2021

Level Score

Level 3 87.4%

Overall QMS Rating

Qualified, robust system meeting Carrier requirements and expectations

Do any commodity specific gaps exist?

No gaps were found

	- Achieved	% of requirements met for:
<u>Description</u>	<u>Level</u>	Level 2 Level 3 Level 4
Quality System & Management Responsibility		
Quality System	L3	100% 100% 50%

Location: Sumter, SC Plant 2 (SM2)

	00/
1.2 Metrics L3 100% 100% 0	0%
1.3 Planning L3 100% 100% 5	50%
1.4 Document Control and Records L4 100% 100% 10	00%
1.5 Quality System Internal Audits L4 100% 100% 10	00%
2.0 Resource Management	

2.0	Resource Management				
2.1	Asset Maintenance	L3	100%	100%	50%
2.2	Measuring and Test Equipment Control	L3	100%	100%	50%
2.3	Employee Competency and Environment	L3	100%	100%	33%
3 0	Customer Requirements				

p.c/cc competency andc		.0070		0070
3.0 Customer Requirements				
3.1 Contract Review	L3	100%	100%	0%
3.2 Customer Satisfaction	L3	100%	100%	0%
3.3 Scheduling & Material Planning	L4	100%	100%	100%
4.0 Product Realization and Control				

4.1 New Product Introduction Process	L3	100%	100%	0%
4.2 Purchasing	L3	100%	100%	25%
4.3 Process Planning and Control	L3	100%	100%	33%
4.4 Non- conforming Product & Change Control	L3	100%	100%	67%
4.5 Packaging and Handling	L3	100%	100%	25%

4.4 Non- conforming Product & Change Control	L3	100%	100%	67%
4.5 Packaging and Handling	L3	100%	100%	25%
5.0 Corrective Action & Preventive Measures				
5.1 Corrective Actions	L3	100%	100%	0%
5.2 Customer Support	L4	100%	100%	100%
5.3 Preventive Measures	L3	100%	100%	0%
6.0 Environmental, Health, and Safety				
6.1 Environmental, Health, and Safety Systems	L3	100%	100%	63%
7.0 Continuous Improvement				
7.1 Lean	L3	100%	100%	0%

	<u>L1</u>	<u>L2</u>	<u>L3</u>	<u>L4</u>
Totals	0	0	18	4
% of requi	rements met:	100%	100%	37%

100%

100%

0%

Have all Level 2 questions been completed?	Yes	All audit questions are answered
Have all Level 3 questions been completed?	Yes	All audit questions are answered
Have all Level 4 questions been completed?	Yes	All audit questions are answered

Auditor Comments

Several findings listed on the "action plan" tab need to be closed. Given the capabilities of the Jemison support staff these should not be difficult to resolve.

Overall - good quality management system that is now ISO certified for this facility as of February 2021.

Jemsion scored very well although several items left the facility assessed as Level 1. I expect that Jemsion can close these out without much effort to reach Level 3 and further increase their numerical score.

Some opportunites for improvement not listed as actions:

- train some more internal auditors from areas outside of quality to have resources to audit quality procedures for unbiased audits
- document the procedures for calibrations performed internally
- try to avoid overuse of "operator training" as corrective actions focus on improving processes to prevent errors first or detecting errors in the process if prevention is not possible

Report revised 5/6/21 based on completed actions

Overall QMS Score Notes

L2 Requirements Only = 60%

L2 and L3 Requirements Only = 80%

L4 = 100%

Scoring does account for all requirements met, regardless of the level achieved

7.2 Cost Reduction

Carrier

Section

Supplier: Jemison Metals

1.1 Quality System



Carrier Quality Systems Audit Supplier Improvement Action Plan

QLY-52FM1 26-Mar-2021

Supplier: Jemison Metals Audit Date: 3/30-31/2021

No.	Question	Subject	Finding	Action(s)	Responsible	Due Date	Status
1	1.3.4	L3 - Contingency planning	Contingency plan does not cover all required risks as defined by Carrier	Supply chain contingency will be addressed in contingency plan.	R. Rowland	23-Apr-2021	Complete
2	1.4.4	L3 - Production records maintained at least 10 years	Current Jemision requirement is for 2 years only	SM2 has gone to paperless. Need to update retention periods on intranet. (Walter)	P. Macias W. Miles	16-Apr-2021	Complete
3	2.2.4	L2 - suitability of gages	Records do not exist showing how Jemison determined gages selected are appropriate and suitable for the measurements to be taken	Adding "acceptable" gage uses to production documents - document SM2-VA-008 released 5/24/21	R. Rowland	23-Apr-2021	Complete
4		L2/L3 - Controls /control plan is followed in production	Forms for multiple work orders did not have inspection results documented as required - no evidence inspections were performed for those orders	Implementation of layered process audits to ensure first pc inspections are happening.	R. Rowland B. Wright P. Macias M. Pitts	16-Apr-2021	Complete
5	4.3.8	L2 - qualification of equipment	no documented qualification of equipment exists	We will request run-off validation paperwork from equipment suppliers	R. Rowland	23-Apr-2021	Complete
6	4.3.16	L3 - Layered Process Audits	Layered process audits not in use	Implementation of layered process audits at SM2, then elsewhere as we learn.	R. Rowland B. Wright P. Macias M. Pitts	16-Apr-2021	Complete
7							
8							
9							
10							
12							
13							
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