



# Lessons Learned from an ISO 9001:2015 Transition

Tamara Hueston 12 October 2017



# Agenda:

- What initial steps were taken
- What plans were created
- How associates were prepared



- What were the certification audit characteristics
- Results and reflection on what worked best

### **Initial Steps:**

# Comprehensive comparison of ISO 9001:2008 standards to ISO 9001:2015 standards

- Identified new requirements
- Identified removed requirements
- Reviewed terminology changes

ISO 9001:2008	ISO 9001:2015
0. Introduction	0. Introduction
1. Scope	1. Scope
2. Normative References	2. Normative References
3. Terms and Definitions	3. Terms and Definitions
4. Quality Management System	4. Context of the Organization
5. Management Responsibility	5. Leadership
6. Resource Management	6. Planning
7. Product Realization	7. Support
8. Measurement, Analysis and Improvement	8. Operations
	9. Performance Evaluations
	10.Improvement

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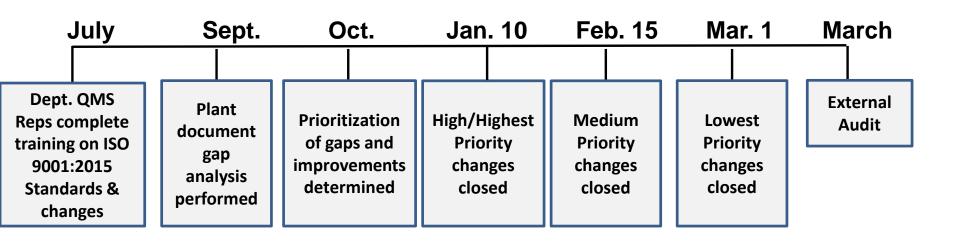
### **Comparing the requirements**

#### ISO 9001:2015

2008		2015	Numberin	g Changes					
5. Management Responsibility		5. Leadership		0.000					
5.1 Management Commitment	:	5.1 Leadership and Commitment	adership and Commitment						
5.2 Customer Focus		5.1.2 Customer Focus	ISO 9001:2008	9001:2015	Changes/Differences				
5.3 Quality Policy		5.2 Quality Policy	Clause Number	Clause Number					
5.4 Planning		6. Planning	5.3 Quality Policy	5.2 Quality Policy	Establish & review quality				
		6.1 Action to Address Risk and Opportunities	. , ,	~ / /	objectives				
		6.2 Quality Objectives and Planning to Achieve them			Satisfy applicable requirements				
		6.3 Planning of Changes			Ensure Quality Policy is documented information and available				
<b>RED</b> indicates change/new 201	.5		5.4.1 Quality Objectives	6.2 Quality Objectives and	Retain documented				
ISO 9001:2008 ISO 9001:20 Clause Number Clause Num				Planning to Achieve Them	information on planning quality objectives: what to be done, resources, responsibility,				
4 Quality Management System (Section Title)	4 Context of (Section Tit				completion, and results (Measurable and consistent				
4.1 General Requirements	4.4 Quality processes	Management Systems and its			with Quality Policy)				
4.2.2 Quality Manual		uality Manual is no longer specifically owever the content previously found in	5.4.2 Quality Management System Planning	6.2 Quality Objectives and Planning to Achieve them	Identify <b>risks</b> and <b>opportunities</b> and reviewing the potential				
the quality manual is now specified under 4.3 Determining the Scope of the Quality Management System, 7.5.1 General, and 4 Quality Management System and it's proce		manual is now specified under clauses	④ ▶ ∅ ∰ ◙ ∞	6.3 Planning of Changes	consequences of change				
4.2.3 Control of Documents 7.5 Documented Information, 7.5.1 General, 7.5.3 Control of Documented Information, 8.5.6 Control of Changes			Terminolog	y & All Requireme	nt Changes				
4.2.4 Control of Records		ented Information, 7.5.1 General, 7.5.3 Documented Information, 8 <b>.5.6 Control</b>	Terminolog	y a An Nequilenie	int changes				

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### Timeline to achieve completion....



Start to perform internal audits to 2015 standards

### Plant level SWOT analysis conducted to prioritize risks

			QMS System Risk Analysis						
Area	Strengths	Weaknesses	Opportunities	Threats	External Influences	Impact	Risk Judgement		
Training					ISO 2015 Review	risk.			
Calibration					hased up	5n n			
Record Retention/ Document Control			- were	prioritiz	ed bas				
Preventative & Corrective Action (PTC, QIS, NCPD, NCR's)			nalysis, the identified areas were nalysis, the identified areas were are ranked as: very high, high, me	dium	ISO 2015 Revision				
Equipment Acceptance		ting a SWOT a	nalysis) ere ranked as: Vere		ISO 2015 Revision Regulations				
Equipment Maintenance	After con	ducun Areas	,		ISO 2015 Revision Regulations				
Process Control	A				Regulatory Requirements ISO 2015 Revision				
Design Change					ISO 2015 Revision Regulations				
Rating Category	y Description	'n	,	<u> </u>	- <u>+</u> +		ł		
Very High		totally unacceptable. Imr and mitigate hazards.	mediate measures must be taken to reduce	e					
High	The risk is unacceptable. Measures to reduce risk and mitigation hazards should be implemented as soon as possible.								
Medium		ay be acceptable over th ould be included in futur	he short term. Plans to reduce risk and mitig re plans and budgets.	gate					
Low	The risks are acceptable. Measures to further reduce risk or mitigate hazards should be implemented in conjunction with other security and mitigation upgrades.								
	42 2047								

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### Determined 2008 Opportunities For Improvement That Still Existed & Compounded in 2015

Clause	ISO 9001:2008 Items	Clause	ISO 9001:2015 Items
Production & Service Control	<ul> <li>Equipment Acceptance</li> <li>Maintaining Required Records</li> <li>Monitoring &amp; Measuring activities</li> </ul>	Production & Service Control	<ul> <li>Ensure externally provided products conform to requirements</li> <li>Equipment Acceptance</li> </ul>
Corrective Action	<ul> <li>Countermeasures not implemented</li> <li>Countermeasure not effective</li> <li>5P's not robust</li> </ul>	Corrective Action	<ul> <li>Document evidence of nonconformity &amp; corrective action taken</li> <li>Review effectiveness of Corrective Action taken</li> <li>5P's more robust</li> </ul>
Management Commitment	Provide evidence of commitment to QMS & continual improvement		
comment	Qivis & continuar improvement	Management Commitment	<ul> <li>Demonstrate Leadership &amp; commitment to QMS &amp; Customer Focus</li> </ul>
Training	Records not maintained, available,     ar completed property		
	or completed properly	Training	<ul><li>Competency captured</li><li>Org. Knowledge</li><li>Succession Planning</li></ul>

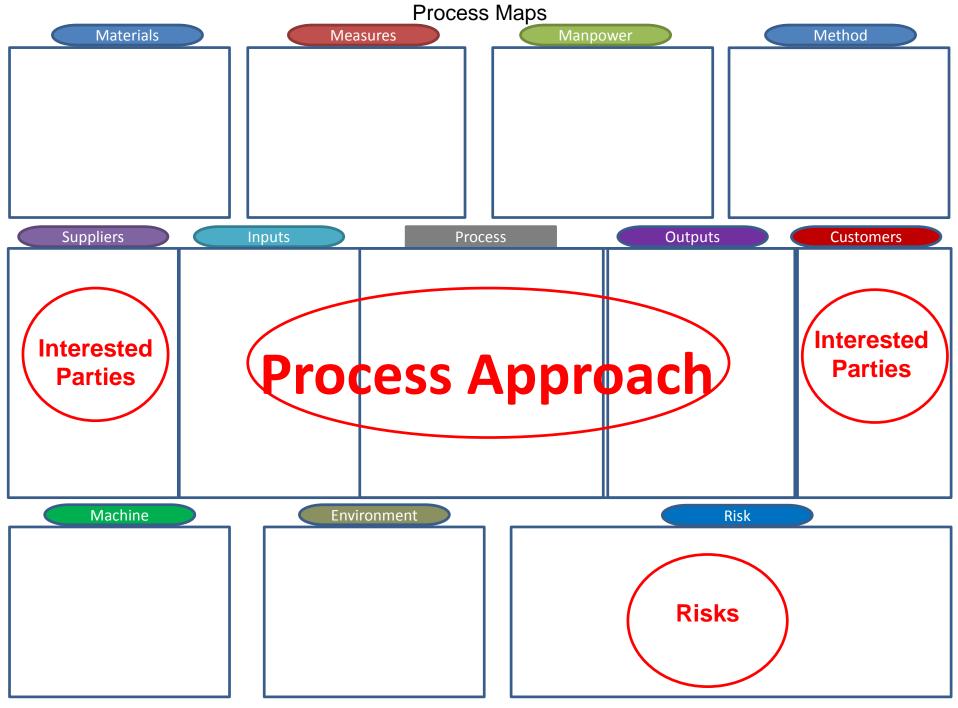
o.1 Actions to	address risks and			Auditing Risk	Risk to Org	Benefit of
	R	equireme	nt	1		3
Requirement:	When planning for the QMS 4.1 and requirements referr that need to be addressed t 6.1.1 a) give assurance that the C b) enhance desirable effect: c) prevent, ore reduce, und d) achieve improvement 6.1.2 The Organization shall plan: a) actions to address these b) how to: 1) integrate and implen 2) evaluate the effectiv Actions taken to address ris potential impact on the con NOTE 1: Options to address pursue an opportunity, elim consequences, sharing the r	ed to in 4.2 o: MS can actions assired effects risks and opportunities; thent the actions into its QMS eness of these actions ks and opportunities shall be formity of products and services risks can include avoiding ri- inating the risk source, char	e proportionate to the vices. sk, taking risk in order to ging the likelihood or	<ul> <li>Opinion on actions taken to increase desirable effect and reduce undesired results</li> <li>Set expectation before audit begins</li> <li>Not have a clear understanding of what actions taken might look like.</li> </ul>	<ul> <li>Conserving</li> <li>Missed opportunities</li> <li>Unforeseen Risks</li> <li>Under/over reacting to risks and opportunities</li> <li>Missed uncontrolled processes/ systems</li> <li>Failure to improve</li> <li>Loss of certification</li> <li>+ External Audit NCRs</li> <li>- Morale</li> <li>- Market share</li> </ul>	<ul> <li>Adverse of risk</li> <li>Improved systems and processes</li> <li>- Failure Cost of Quality</li> <li>Associate involvement</li> <li>+ Innovation</li> </ul>
	products, opening new mai	other desirable and viable po	ners, building partnerships,			
Evidence of Conformance: Potential Problems: Identified Gaps:	4 5	Plan to evaluate these actions	potential impact on conformity of product			

### **ISO Analysis**

- 1. Auditing risk identified
- 2. Risk to organization of not conforming
- 3. Benefit of conforming

- 4. Evidence of Conformance
- 5. Potential Problems
- 6. Identified Gaps
- 7. Related Procedures

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### Context of the Organization Matrix

#### Context of the Organization

										 		-		
External Issues	Indiana Culture	Social	Political	Legal	Economic Environment (local)	Financial	Market	Competitive	Technological	Internal Issues	Indiana Culture	Social	Financial	Technological
Work Force	Available competent work force	Education lovel	N/A	Divorsity	N/A	Waqo Incroaros	Job Markot	Compotitors	Education lovel	Work Force	Maintaining uark farce	Noqativo & paritivo publicity	Maintaining work forco	Training Availability
Utilities	Green Community	N/A	N/A	N/A	Enviornmental Impact	Natural Gar Prices	N/A	N/A	N/A	Utilitior	N/A	Green plant with minimal waqo of resources	Cartr	N/A
Part Suppliers	N/A	Directiver	N/A	Futuro oxports	Increase in the need of parts Supply/Demand	Prico Incroaros	N/A	Bidr	N/A	Process Knouledge	Education Lovel	DifforentLovels	Training Cart	Training Availability
Rau Matorial Suppliors	N/A	Directiver	N/A	Future exports	Incroaro in the need of parts Supply/Domand	Prico Incroaros	N/A	Bidr	N/A	Products and Services	N/A	Protoct company namoplato	Cart of Quality	Innovation
Transportation	BadDrivors	Dack Striker	N/A	Changing regulationsfexport models	Road Conditions Traffic Patterns	Cart of Fuel Increase in amount of products/deliveries	N/A	Bidr	N/A	Process Activities	N/A	N/A	Improvement Cartr	Cantinual Improvement
MAP	N/A	N/A	N/A							Company Stratogic Diroction	N/A	SociotalImpact	Improvement Cartr	Innovation
ELP	N/A	N/A	N/A											
нсм	N/A	N/A	N/A											
нтм	N/A	N/A	N/A											
<	Context Interested Parties Quality Scope											•		

Considerations f	or External & Inter	<u>nal issues</u> :
Culture	Social	Political
Legal	Environmental	Financial
Market	Competitive	Technological

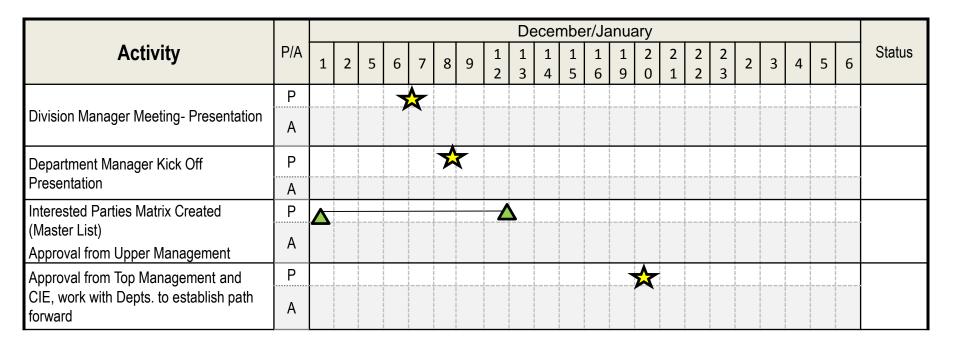
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### **Interested Parties Matrix:**

1 2 3		Interested Parties											
4	External Parties	Relevant to QMS	Examples	Requirements	Risks	Opportunities	How Met or Demonstrated	Internal Parties	Relevant to QMS	Requirements	Risks	Opportunities	
5	County	No	Area Planning AssessorCommisioners Council Emergency Management Heath Dept. Highway Dept. Recorder Sheriff Dept. Soil & Water Solid Waste	Environmental Aspects	WA	WA	N/A	Associates	Yes	Clean / Safe Work Environment (7.1.4) Correct Tools for the Job (7.1.5.1) Training (7.2)	Mismatch in competency levels leads to a lower standard Higher cost of retraining Lower morale Non-conformances	Attain resources for continual improvement Capture organizational knowledge	Do:
6	City	No	Mayor City Council Engineering , Planning & Zoning Street Dept. Police Fire Waste Water Treatment Plant	Environmental Aspects	NIA	WA	WA	On-site Contractors	Yes	Ensure that persons doing work under the organisation's control are aware of: Quality Policy Relevant quality objectives Implications of not conforming with the QMS requirements	No accountability for actions	Higher conformity within the QMS	
7	State	No	Dept. of Transportation Economic Development Corporation Dept. of Labor Workers Compensation Board IEDC Skills Enhancement Training	Environmental Aspects	WA	WA	N/A	Departments	Yes	Internal communications relevant to the GMS: What, when whom, how, who	Lost communication Important communication lost Confidentiality breach Wrong information	Strenghthen commumication Look at which means of communication are most productive for all depts	
	Federal Agencies	No	HAZMAT OSHA	Safety Regulations	WA	WA	N/A	Top Management	Yes	Demonstrate leadership & commitment to GMS	Ineffective Quality Systems Overtime Additional Manpower Misplaced Priorities Inefficient Processes	QMS Implemented at all levels of the organization Increase in quality Investment in improvement Reduce costs	Suit Res ass under Parti Scorer
	Context Interested Parties Quality Scope												

When considering your internal and external parties: Are they relevant to your QMS? Can you give examples? What are the RISKs/Opportunities for them? How do you demonstrate that you conform to this requirement?

### **Transition Timeline Approvals**



Transition activity started in 2015 with awareness campaigns to the COC and top management.

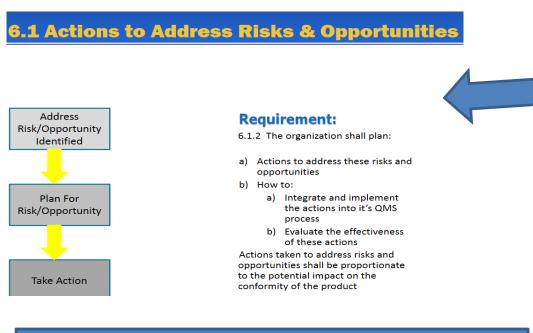
## **Preparing Associates for the Transition:**

- Information communicated to associates via:
  - Company Wide
     Broadcasting
  - Communication Boards
  - Ask Me Table



- Division, Dept. and Team Managers received presentations
- Dept. QMS Reps. received training
- Top management received training internally & externally

### **Trainings for the Dept. QMS Reps**



ISO 9001:2015 Transition training occurred between January and July.

It was an entire training and not just change points.

This allowed for an opportunity to strengthen foundation training.

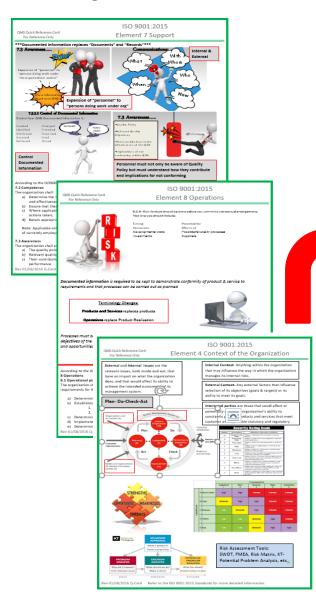
Teach the requirement and then understand how it applies to your organization.

#### **6.1 Actions to Address Risks & Opportunities**

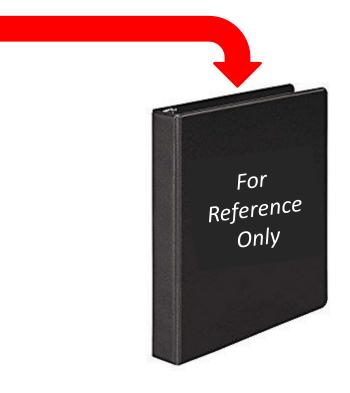
#### **Evidence of Conformance**

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### Takeaways from trainings....



• Each Dept. QMS Rep was given a binder to put their Quick Reference Cards and other materials into.



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# Audit planning....

- Begin process approach auditing
- Determine support (resources) needed for auditing the remaining 7 audits scheduled
- Push process approach audits to second half of the year



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Analyze	Implement	Check
Identify gaps in the Departments. Process Mapping Key processes. Identify systematic weaknesses across the plant.	Update documented procedures. Work to implement Countermeasu res for identified gaps. Help Departments implement training to new standards.	Use gap analysis to develop improvement plans for departmental QMS. Develop Intra- departmental checks. Help develop BP Metrics to ensure planned changes are monitored.

# **Approved plan**

- QMS Team members were assigned Departments to support
- Weekly reporting from theme leader ensured monitoring of targets as identified in the schedule
- Team members helped support activities

# **Reporting Targets**

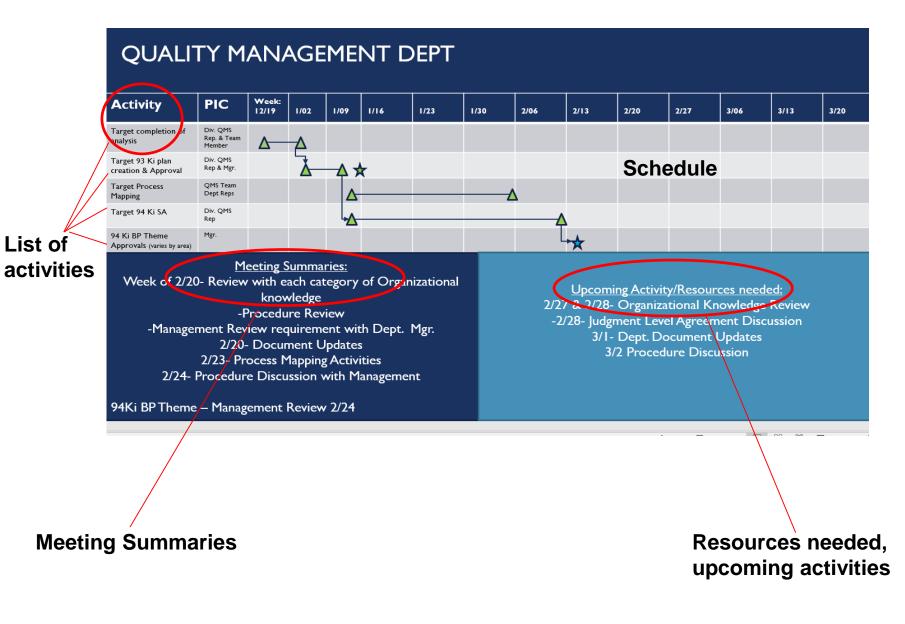
#### WEEKLY

- Significant road blocks
- Key work Items
  - Scheduled activity
  - Gaps/concerns
  - Countermeasure progress
  - Systematic concerns

#### MONTHLY

- High Level scorecard (all Dept.)
- Detailed information on delayed or stalled items
- Countermeasure
   activity progress
- Systematic concerns (plant level)

# **Weekly Plant Reporting**



### What was the certification audit like?

#### Auditing questions...

1					
4 Context of the Orga		Audit Question	External Auditor Question		
-	Organization shall determine external and internal issues that are relevant to it's purpose and its strategic direction and that affect the ability to achieve the intended results of the QMS.	How has the organization determined ext./int issues relevant it it's purpose and strategic direction?	External Auditor		
	The organization shall monitor and review information about these extern	How do these affect the ability to achieve the intended result of the QMS?	Questions		
		How do you monitor and review information about these internal and external issues?			
	Note 2: U considering issues arising from legal. Technological, competitive, market,	Possible Audit			
-	cultural, social and economic environments, whether international, Note 3: Understanding the internal context can be facilitated by	Question			
	considering issues related to values, culture, knowledge and performance of the organization.				
4.2 Understanding the needs and expectations of interested parties	Due to their effect or potential effect on the organization's ability to consistently provide products and services that meet the customer and applicable statutory and regulatory requirements, the organization shall determine:	How have you determined what interested parities are relevant to the QMS?	How are you identifying what is covered and what is not included? What is excluded and why? Can you show me where you have identified a risk? Can you show me where you have rolled a risk up to North America? Can you show me the outcome of that risk?		
	a) the interested parties that are relevant to the QMS	How have you determined what requirements those parties have that are relevant to the QMS?	What is going to be our evidence that we are reviewing risks with top management before we roll up items to North America?		
1	b) the requirements of interested parties that are relevant to the QMS	How have impact or potential impact been determined?	Can you show me in the last management review where you covered risk		
	The organization shall monitor and review information about these interested parties and their relevant requirements.	How do you monitor and review the information about interested parties and their relevant requirements?	opportunities, including customer satisfaction?		
4.3 Determining the scope of the QMS	Organization shall determine the boundaries and applicability of the QMS t	How have the boundaries and applicability of the QMS been used to establish the scope of the organization?			
	When determining this scope, the organization shall consider:				
1	a) the internal and external issues referred to in 4.1	How has the external and internal issues been considered when developing the scope? How has the requirements of interested parties been considered when			
	h) the requirements of relevant interested parties referred to in 4.2	developing the scope?			
< → S	Section 4- Section 5 Section 6 Section 7 Section 7	on 9   Section 8   Section 10   Sheet1   🕂 🗄	•		

Reference Tool that lists the requirement, possible audit question, and what the external auditors question was like.

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# Audit reflection....

### What worked best:

- Interested parties matrix
- SWOT analysis for plants and depts.
- Process mapping
- Trainings for associates

What could have been more robust:

- Performing process audits to all requirements (External Auditor preference)
- Understanding the scope of externally provided services



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# ISO 9001:2015

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### CERTIFICATE

#### COMPART Honda Manufacturing of Indiana

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SANDARD : ISO 9001 (2015 Edition)

In the purchasing, manufacturing, assembly and quality activities for vehicle production. (Excluding 8.3, product design)

CERTIFICATION VALIDITY : from 14-Dec-2014 to 15-Dec-2019

Giles FOROESS Certification, Audits & Inspections Department Manager

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WE DID IT!



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