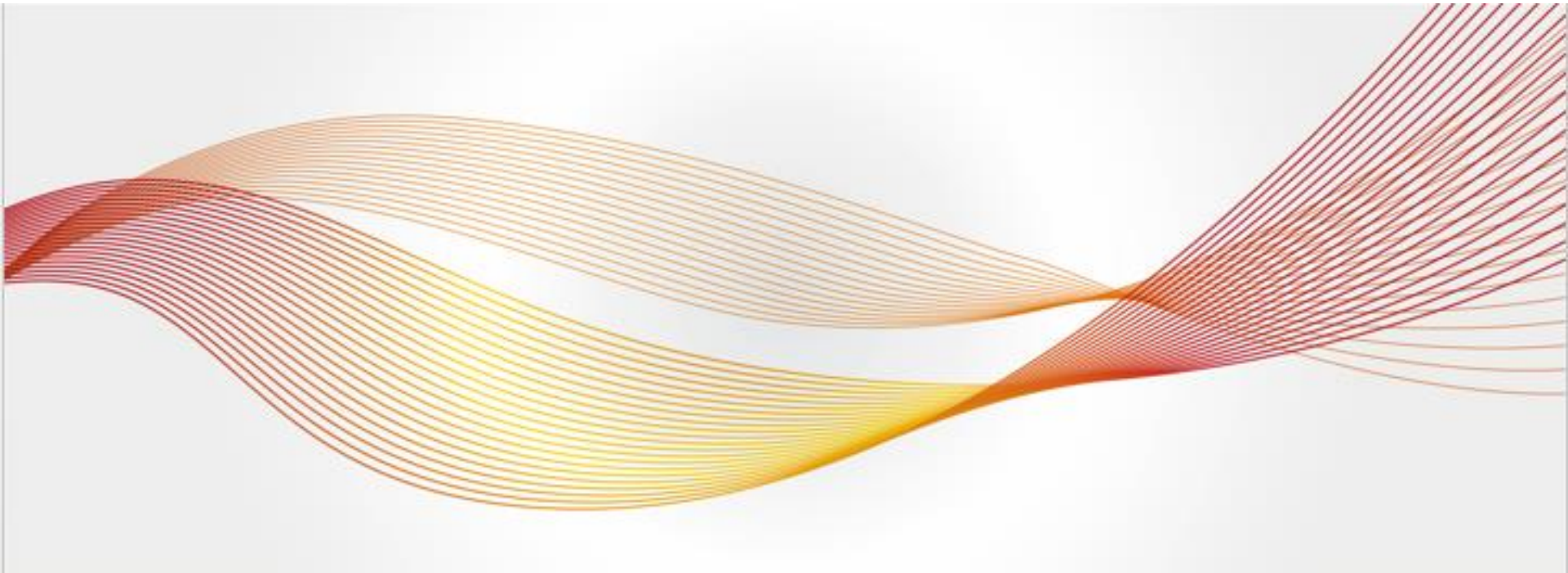


# ANPQP 3.1 revision



NML TCSX Corporate  
Quality Strategy and Audit Department  
ANPQP Management Team Y. Yoshidome, M. Mounai



# Today's Agenda

**1, Revision outline**

**2, Revision Contents**

**4.5 Special Characteristics Management**

**11.1 Environmental Requirement**

**Others**

**3, Ver 3.1 Application Schedule & Project Schedule**

**4, Request**

**5, Q&A**

# Today's Agenda

**1, Revision outline**

2, Revision Contents

4.5 Special Characteristics Management

11.1 Environmental Requirement

Others

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4, Request

5, Q&A

# 1, Revision Background/Contents

**N** : R unique → **N** application    **R** : N unique → **R** application  
**E** : **E**limination of R unique    **M** : other **M**odification

Revised Activities from version 3.1		Revision Contents	Background			
			N	R	E	M
3.2	Capacity Submission Warrant	Applies Renault unique process	<input type="radio"/>			
	Production Preparation Monitoring Plan/Status Report	Deletion of Renault unique, 4M (Man, Material, Machine, Method) and average score				<input type="radio"/>
	Supplier Master Schedule	Detailed project schedule, separate schedule line for planning and actual schedule				<input type="radio"/>
4.2	Design Potential FMEA	Deletion of Renault unique			<input type="radio"/>	
	FTA	Deletion of Renault unique, addition of FTA explanation			<input type="radio"/>	
4.4	Production Specifications & Drawings/CAD data	Add: electron/electronic/software spec. Delete: Test Specifications, Technical design goal	<input type="radio"/>	<input type="radio"/>		
	Supplier Recommendations	Addition of Renault requirement, handling / assembly instruction	<input type="radio"/>			
4.5	Special Characteristics Management	Symbol mark convergence	<input type="radio"/>			
5.1	Process FMEA	Deletion of Renault unique			<input type="radio"/>	
5.2	Process Flow Chart	Deletion of Renault unique			<input type="radio"/>	

# 1, Revision Background/Contents

**N** : R unique → N application    **R** : N unique → R application  
**E** : Elimination of R unique    **M** : other Modification

Revised Activities from version 3.1		Revision Contents	Background			
			N	R	E	M
5.2	MQA	Renault unique requirement, converged to P-FMEA			○	
5.4	Process Capability Study Results	Renault uses Cpk, instead of TAG etc		○		
6.1	Appearance Approval Report	Nissan unique AAR to be applied to Renault		○		
8.1	Non Conforming Product Management	Change of 8D format				○
9.1	Design Change Management	Added Tier N software change management				○
9.2	Process/Facility Site Change Management	Change of "Object of Process Change" table				○
11.1	Environmental Requirement	Convergence of environmental impact substances				○

# Today's Agenda

1, Revision outline

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# 2, Revision Contents

## : 4.5 Special Characteristics Management

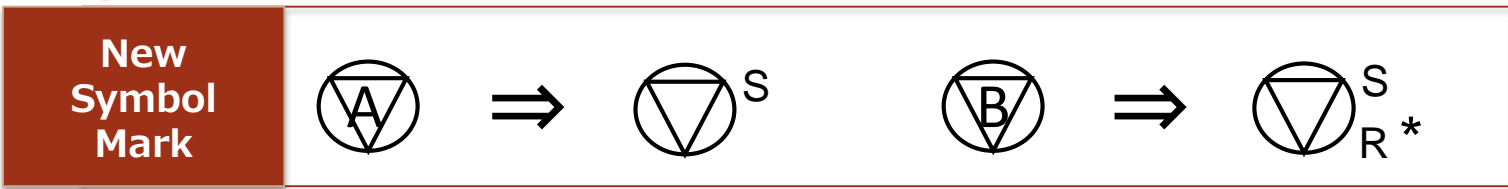
■ Revision Point ①

	Safety	Regulation	Others
Nissan		OBD	
Renault	n  S	n  S m  R	Level 1,2

### ***New Safety Special Characteristics Definition***

It is a characteristic of a part or portion whose noncompliance with can directly generate an event potentially safety related and which is particularly specified on the drawings and related documents.

Parts and portion subject to Safety Special Characteristics will be specified on the drawings, RNDS and specifications.



\* R (Regulatory) charac. → out of 3.1 convergence scope. R/N unique provisions and quality control management will apply.

## 2, Revision Contents

### : 4.5 Special Characteristics Management

#### ■ Revision Point ②

- Special Characteristics Requirements are same as Quality Control Requirements in version 3.0.
- Refer version 3.0 for ImpA/B/C/OBD and other regulations.  
(Both ImpA/B/S/SR will exist for a while)



## 2, Revision Contents

### : 4.5 Special Characteristics Management

Version 3.1 Safety Special Characteristics Quality Management Requirements is same as Nissan ImpA. Regulatory requirements applicable for Renault only.

※COP、Regulatory requirements concepts are common requirements.

Items	Requirements
Parts Identification Control	Parts chara. shall be marked on the relevant document
Sub-supplier management	Tier 1 supplier hold full responsibility on sub-supplier
Quality & process capability targets	Able to demonstrate 100% assurance, Cpk>1.33
Parts traceability	Must have parts traceability procedures
Document Submission	Shall submit the document upon the R/N request
Operators/training	Operators must receive training and have to be qualified.
Internal Process Audit	Shall carry out internal process audits and monitor effectiveness
Change Management	Shall get R/N approval in advance of change
Regular Test	Shall make regular test
Concern Management	Ensure that any corrective actions are implemented and are effective.
Reworked Parts	Must be special managed separately
Machines or Equipment	Must be clearly identified with the relevant Special Character. Symbols
Parts Marking	Shall indicate lot numbers or mfg numbers.
Record	Shall maintain the record

# Today's Agenda

1, Revision outline

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Others

3, Ver 3.1 Application Schedule & Project Schedule

4, Request

5, Q&A

## 2, Revision Contents

### : 11.1 Environmental Requirement

#### ■ Revision Background

- At the revision of ANPQP3.0,management process convergence of environmental requirement has been done. However environmental specification are unique for Renault and Nissan.
- At the revision of ANPQP3.1,specification convergence for environmental impact substances between Renault and Nissan is implemented.

# ■ Change point of DCI/Form

**ANPQP3.0 : Apply unique spec. for environmental impact substance between R & N**

## Environmental impact substances

Environmental issue	For Renault	For Nissan
Substance use restrictions	<ul style="list-style-type: none"> <li>● Standard <b>00-10-050</b> : Prohibited or Restricted Substances List and Declaration Modes</li> </ul>	<ul style="list-style-type: none"> <li>● NES M0301 "Substance Use Restrictions"</li> </ul>
Material Marking	<ul style="list-style-type: none"> <li>● Standard <b>00-10-060</b> : Design for recycling</li> </ul>	<ul style="list-style-type: none"> <li>● NES D0031 "Marking of Polymeric Parts"</li> </ul>

## IMDS input rule

	For Renault	For Nissan
IMDS input rule	<ul style="list-style-type: none"> <li>● <b>00-10-050</b> Prohibited or Restricted Substances List and Declaration Modes</li> </ul>	<ul style="list-style-type: none"> <li>● NES M0301 "Substance Use Restrictions"</li> </ul>
	<ul style="list-style-type: none"> <li>● <b>80-00-044</b> IMDS Documentation Rule For Renault Suppliers</li> </ul>	<ul style="list-style-type: none"> <li>● NES M0302 "Substance Data Input Standard by IMDS"</li> </ul>



**ANPQP3.1 : Apply RNES (R & N common spec.) for environmental impact substances**

## Environmental impact substances

Environmental issue	For Renault	For Nissan
Substance use restrictions	<ul style="list-style-type: none"> <li>● RNES-B00027 Prohibited or restricted substance in parts List and declaration mode</li> </ul>	
Material Marking	<ul style="list-style-type: none"> <li>● RNES -A00001 MATERIAL MARKING SPECIFICATIONS</li> </ul>	

## IMDS input rule

	For Renault	For Nissan
IMDS input rule	<ul style="list-style-type: none"> <li>● RNES-B00027 Prohibited or restricted substance in parts List and declaration mode</li> <li>● RNES-B00043 IMDS DOCUMENTATION RULES FOR SUPPLIERS</li> </ul>	

# ■ Main change point from NES to RNES

## ➤ **RNES-B00027 Prohibited or restricted substance in parts List and declaration mode (←NES M0301 "Substance use restriction)**

- ✓ Contents : Specify substance use restriction for vehicle parts & material
- ✓ Change point from NES M0301
  - Newly set "Priority substance" as high priority for future prohibition (Main scope : REACH Annex XIV/XIV candidate/Annex XVII substances)  
CAS No : 64 substances
  - Add Classification RENAULT & NISSAN  
P: Prohibition for Global、 D: Declaration, R: Prohibition for specific use or countries
  - Reflect GADSL2016 (2016/02) Add 13 chemical group / 32 substances

## ➤ **RNES -A00001 MATERIAL MARKING SPECIFICATIONS (← NES D0031 Marking of Polymeric Parts )**

- ✓ Contents : Specify material marking on parts
- ✓ Change point from NES D0031
  - Add material marking for metal parts as recommendation

## ➤ **RNES-B00043 IMDS DOCUMENTATION RULES FOR SUPPLIERS (← NES M0302 Substance Data Input Standard by IMDS )**

- ✓ Contents : Specify input procedure and rule for IMDS
- ✓ Change point from NES M0302
  - Add unique requirement for Renault parts

## ■ How to get RNES

Currently, RNES electric view system is developing,  
Please refer below Renault or Nissan spec. which  
reflected each RNES contents

RNES	Renault	Nissan
RNES-B00027	00-10-050	NESM0301 2016-N
RNES -A00001	00-10-060	NES D0031 2016-N
RNES-B00043	80-00-044	NES M0302 2016-N

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# 2, Revision Contents

## : 3.2 Capacity Submission Warrant

■ Revision Point

Renault unique requirement to Nissan. To review suppliers' production capacity and avoid risks before the SOP.

■ Purpose of the template

To review mid-long term suppliers' production capacity

Category	DCI	Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Activity	Template															
<a href="#">3. PROJECT MANAGEMENT</a>		Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
<a href="#">3.2 Project Planning and Production Preparation Monitoring</a>	Capacity Submission Warrant (CSW)										(1)	(1)	(1)			



# 2, Revision Contents

## : 4.4 Supplier Recommendation

■ Revision Points

- Renault unique template to Nissan.
- 2 → (2) to meet actual operation.
- Apply to Nissan.

■ Purpose of the template

Suppliers submit parts handling recommendation or warning when submitting parts drawing.

Category	DCI	Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Activity	Template															
<u>4. PROJECT DEVELOPMENT</u>		Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
<u>4.4 Engineering Product Specifications / Drawing Study and Completion</u>	Supplier Recommendation				(2)	(2)	(2)	(2)	(2)	(2)						

# 2, Revision Contents

## 3.2 Supplier Project Preparation Monitoring Plan/Status Report

### Revision Point

Addition of automatic calculation formula.

Able to calculate / show each Key Measures (4M)



no change to items to be input

Part No. & Issue Level: _____				S / VC-Lot <input type="checkbox"/> PT1 <input type="checkbox"/> PT2 <input type="checkbox"/> SOP <input type="checkbox"/>					
Design Note No. / DEVO: _____									
Production Preparation Influencing Factors (All numbers below are cumulative numbers)				Project Milestones				Comments	
				S / VC-Lot	PT1	PT2	SOP		
M A N	Manning Requirement	Number of Personnel	Planned Target	0	5	10	15		
			% of Personnel at Full Volume Condition	0%	33%	67%	100%		
			Achievement	1	4	12	15		
			% of Planned Target	#DIV/0!	80%	120%	100%		
	Skill Level	Number of Personnel Fully Trained	Planned Target	0	5	10	15		
			% of Personnel at Full Volume Condition	0%	33%	67%	100%		
			Achievement	4	12	15			
			% of Planned Target		80%	120%	100%		
H O D	Work Instructions	Number of Work Instructions Complete	Planned Target		5	10	18		
			% of SOP Target	0%	28%	56%	100%		
			Achievement		4	12	15		
			% of Planned Target		80%	120%	83%		
				% of Full Volume Condition	0%	22%	67%	83%	
				Man	0%	27%	80%	100%	
				Material	0%	27%	80%	100%	
				Machine	10%	37%	79%	101%	
				Method	0%	24%	73%	92%	
				Average Score	3%	29%	78%	98%	
Name		Project Leader	Purch / Sales	Production Control	QA	Engineering	Design		
Signature									

# 2, Revision Contents

## : 3.2 Supplier Master Schedule

### ■ Revision Points

- addition of parts definition to clarify the input area.
- detail project schedule. (monthly → weekly)
- separate schedule line for plan/actual.

### SUPPLIER MASTER SCHEDULE - Rev3

MASTER PLAN

Program Code: _____ Model Year: _____	Nissan Important Part A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> QSO <input type="checkbox"/>	Renault - COT S <input type="checkbox"/> R <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/>	Remarks:   																																													
Supplier: _____ <small>* Added the questions (Supplier check question a., the columns automatically changed for color and inform where needs to be filled out.</small>	Supplier Code: _____ Author: _____	E-mail: _____ Tel. No: _____																																														
Part No. _____ Design Note No. / DEVG: _____		Doc Ref. No. / Ver.: _____ Doc. Rev. Date: _____ Doc. Create Date: _____																																														
a. Is this part Unique, Common, Carryover, or Pass-Through?	b. 1. Based on Production Capacity Plan 1 finding, is additional Tooling/Equipment required?  2. Are Design Change going to be added to accommodate additional volume?	c. Is Additional Manpower or Shifts Required to accommodate additional volume?  d. Is additional packaging required?																																														
e. Annual Vehicle Production Volume Requirement based on RFQ	f. Nissan Buyer who provided the RFQ volume	g. Vehicle Trial Production Requirements	Supplier Sign-Off																																													
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>h. Trial</td><td>S / VC-Lot</td><td>ST-Lot</td><td>PT1</td><td>PT2</td><td>SOP</td><td>SCI* + 90 days</td></tr> <tr><td>i. MRD</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>j. Quantities</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>k. Tool</td><td colspan="3" style="background-color: yellow;">more detailed schedule</td><td></td><td></td><td></td></tr> <tr><td>l. Commodity</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	h. Trial	S / VC-Lot	ST-Lot	PT1	PT2	SOP	SCI* + 90 days	i. MRD							j. Quantities							k. Tool	more detailed schedule						l. Commodity							<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Name</th><th>Project Leader</th><th>Purch/Sales</th><th>Prod. Control</th><th>Quality</th></tr> <tr><td>Signature</td><td></td><td></td><td></td><td></td></tr> </table>	Name	Project Leader	Purch/Sales	Prod. Control	Quality	Signature				
h. Trial	S / VC-Lot	ST-Lot	PT1	PT2	SOP	SCI* + 90 days																																										
i. MRD																																																
j. Quantities																																																
k. Tool	more detailed schedule																																															
l. Commodity																																																
Name	Project Leader	Purch/Sales	Prod. Control	Quality																																												
Signature																																																

No.	Project Items (Detail)	Responsible Person (Supplier)	Date (Month/Day/Year)		Total Planned Days	% Work Complete	Multi-Year												Time Scale											
			START	END			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
#	Supplier Project Kick-Off																													
1	Project Milestone (Key MRD Milestone)																													
2	Volume Project Review Meeting				0																									
3	Serial Design / Design Presentation				0																									
4	Testing				0																									
5	EMV&				0																									
6	Production Testing				0																									
7	Production Startups				0																									
8	Production Facilities / Equipment Installation				0																									

## 2, Revision Contents

### : 4.4 Engineering Product Specification Documents & Engineering Drawings/CAD data

#### ■ Revision Points

Addition / deletion of Minimum Contents Requirements.

#### Addition to 3.0 version

- Appearance specifications(N→R)
- Electrical/Electronic parts and systems specifications (R→N)
- Software specifications and validation documentation (R→N)

R

N

N

#### Deletion to 3.0 version

- Test Specifications
- Technical design goal



E

# 2, Revision Contents

## : 8.1 8D Concern and Countermeasure Report

### ■ Revision Points

- Change of 8D report format to vertical format to include Why-Why analysis in 1 page.
- No change on items to be input.
- Deletion of attachment file
- Suppliers can use own format for detail information.

<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> V <input type="checkbox"/> □ <input type="checkbox"/> B <input type="checkbox"/> □ <input type="checkbox"/> □		Doc. Ref. No./Ver.: _____ Doc. Rev. Date: _____ Doc. Origin Date: _____ Date: _____
Report No.		
Rank		
Incident Date & Time		
Model		
Quantity Affected		
Affected Lot No's		
Recurrence <input type="checkbox"/> Y <input type="checkbox"/> N		
Comment / Result		
Reason for non-detection		

**RENAULT NISSAN 8D-再発防止対策報告書 (8D-CCR)**

サブライヤー名称	サブライヤーコード	作成者	承認者
部品名称	変更	図面	図面
部品番号	変更	検査日	(変更)

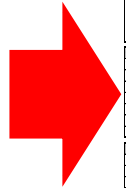
発生原因の特定	発生日	発生場所	発生量
重要度	数量		
不具合内容			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			

発生原因の特定	発生日	発生場所	発生量
重要度	数量		
不具合内容			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			

CK製品の製造方法	CK製品の形物表等 (印刷番号)	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
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検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目



発生原因	発生日	発生場所	発生量
重要度	数量		
不具合内容			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			

発生原因の特定	発生日	発生場所	発生量
重要度	数量		
不具合内容			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			

CK製品の製造方法	CK製品の形物表等 (印刷番号)	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目
検査項目	検査項目	検査項目

発生原因の特定	発生日	発生場所	発生量
重要度	数量		
不具合内容			
Who			
When			
Where			
Why			
How			
Who			
When			
Where			
Why			
How			

## 2, Revision Contents

### : 9.1 Design Change Management

#### ■ Revision Points

Clarify Tier N software change management

Addition to 3.0 version

#### Remark:

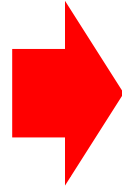
- Supplier shall update software version and software release note when any software modification including Tier N software.  
All of changing history of software modification including Tier N software should be written in software release note.

## 2, Revision Contents

### : 4.2 Design FMEA

#### ■ Revision Points

Deletion of Renault Unique



No change to Nissan Suppliers

Deletion from 3.0 version

#### Notes :

For Renault

- Unless otherwise agreed with Renault, the Supplier shall study and provide a "Product Potential FMEA" (Design Failure Modes, their Effects and Criticality Analysis).
- The Supplier shall use his own standard for FMEA evaluation or, by default; the Supplier shall use the Renault standard 01-33-200.
- The supplier shall take into account the specific Vehicle Regulation requirements of each country of sale, and the EIC ("Événements Indésirables Client") / Feared Events (sent by Renault) when conducting this risk analysis.

# 2, Revision Contents

## : 4.2 Fault Tree Analysis (FTA)

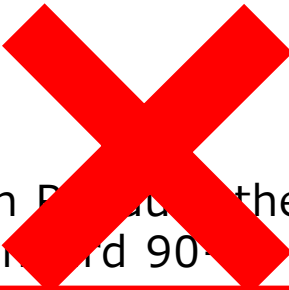
■ Revision Points ①

Deletion of Renault Unique

**Notes**

For Renault

- Unless otherwise agreed with Renault, the Supplier shall study and provide a FTA according to Renault standard 90-00-053.



■ Revision Points ②

Addition of FTA explanation



No change to Nissan Suppliers



## 2, Revision Contents

### : 5.1 Process FMEA

#### ■ Revision Points

Deletion of Renault Unique



No change to Nissan Suppliers

#### Minimum Content Requirement(s):

For Renault:

- Unless otherwise agreed with Renault, the Supplier shall study and provide a "Manufacturing Process FMEA" (which includes Process FMEA, Production Facility FMEA, Flow FMEA).
- The Supplier shall use his own standard for FMEA evaluation or, by default; the Supplier shall use the Renault standard for 3-1-0.
- The supplier shall take into account the "C "Evénements Indésirables Client"/ Feared Events (sent by Renault) when conducting this analysis.

# 2, Revision Contents

## : 5.2 Process Flow Chart

### ■ Revision Points

Deletion of Renault Unique

Use flow chart symbols specify in ISO

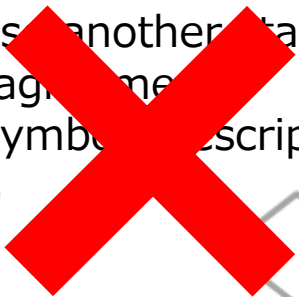


No change to Nissan Suppliers

### Note(s):

For Renault:

- The following symbols should be used for the Process Flow Chart.
- If the supplier wants to use another standard, they shall :
  - first ask for Renault agreement
  - give to Renault the symbol description



Production operation



Manual production operation



Decision



Storage



Document

For Nissan: → **changed as a common requirements.**

The supplier shall use flowchart symbols specified by an appropriate standard to complete the layout.

The supplier shall clarify the meaning of the symbols used in a legend.

# 2, Revision Contents

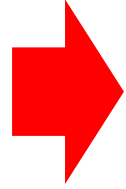
## : 6.1 Appearance Approval

### ■ Revision Points

Converged to Nissan template

Deletion of Renault Unique

Addition (2) in phase 3



No change to Nissan Suppliers

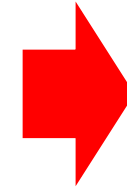
Category	DCI	Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Activity	Template															
<a href="#">6. Product Confirmation</a>		Phase 1			Phase 2			Phase 3			Phase 4			Phase 5		
<a href="#">6.1 Design Verification and Product/Process Validation</a>	Appearance Approval Report (AAR)							(2)	(2)	(2)	(1)	(1)	(1)			

## 2, Revision Contents

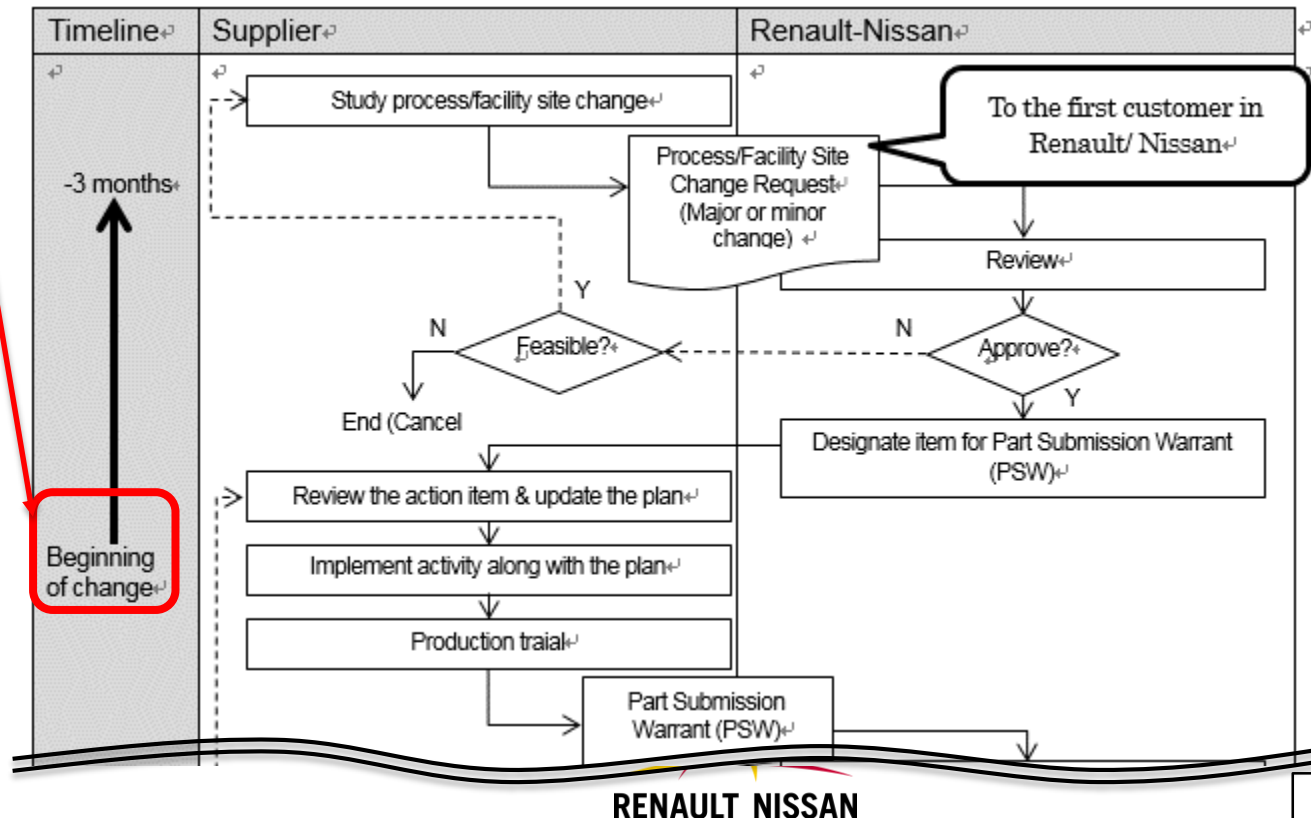
### : 9.2 Process/Facility Site Change Request

#### ■ Revision Points

- Revision on 'Submission Guide Table.'
- Addition of Nissan's rights to request
- Clarify the submission limit (3 months before the change)

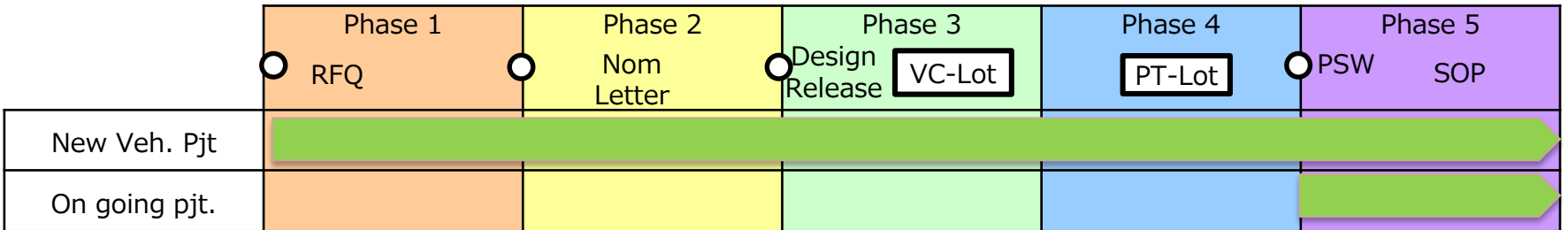
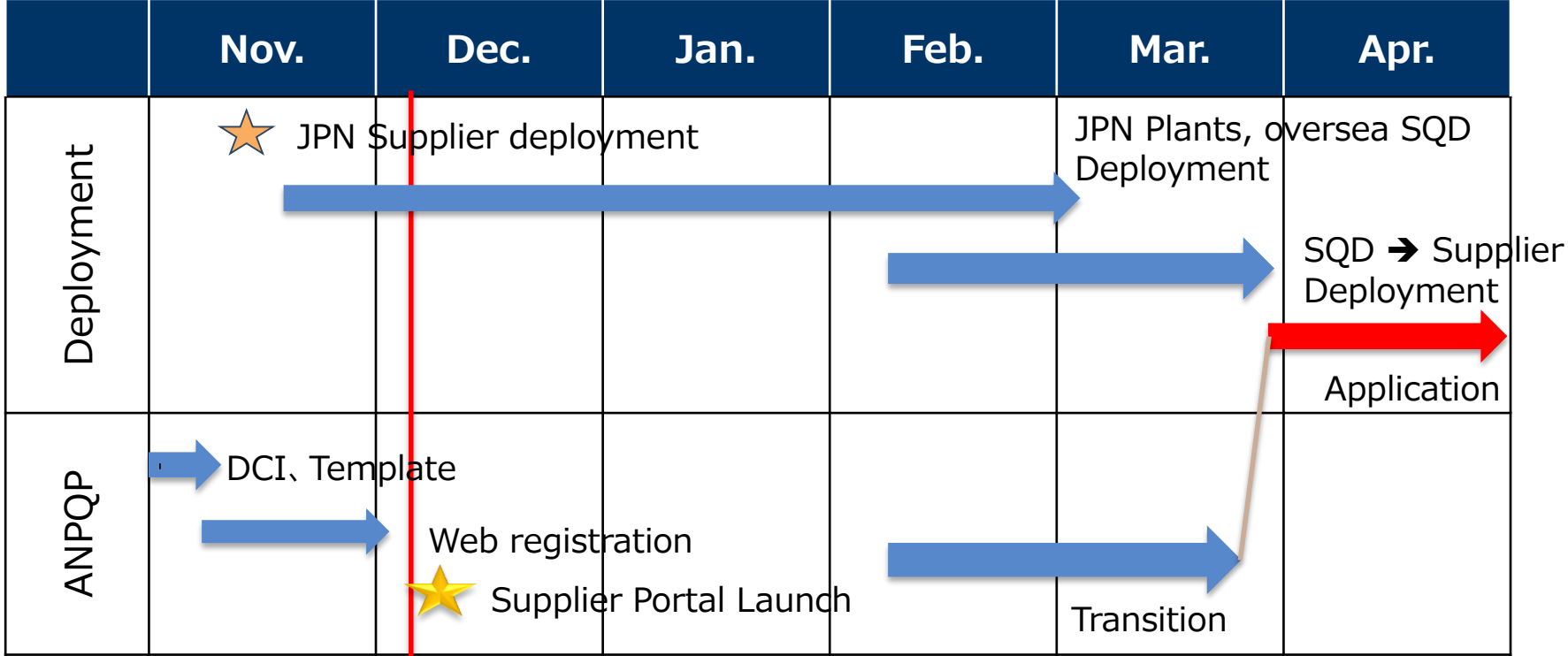


No change to  
Nissan Suppliers



# 3, 3.1 Application Schedule

**New vehicle pjt : after [SUV] sourcing 2016 Dec.**  
**On going pjt : Any new template prepared after 2017 April**



ANPQP 3.1 application

# appendix