# ANPQP Revision Version 3.0

**ANPQP Maintenance Commitee** 

**April, 2015** 



# **New Revision Summary (1/2)**

#### Main request

- Study and improve commonization to support optimized joint procurement.
- Collect all requirements deployed after V2.3 publication and incorporate the new revision.
- Make the requirement (process/output) understandable.

#### **Alliance**

- 1. Commonized processes/output below;
  - ✓ Design Review (Full Process DR/Quick DR)
  - ✓ PSW (Part Submission Warrant)
  - ✓ Non-Conforming Product Management
  - ✓ Design Change Management
  - ✓ Environmental Requirement
  - ✓ Special Characteristics Management

(Certificate of Certification (COC)/Conformity of Product (COP))

- ✓ Others
- 2. Added examples/key-points below;
  - ✓ Floor Layout Planning, Control Plan, Work Instruction etc.



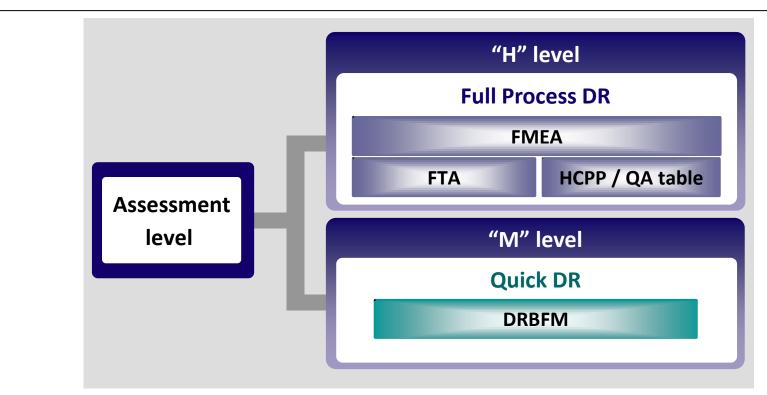
# **New Revision Summary (2/2)**

- 3. Make the requirements understandable such as below;
  - ✓ Logistics and packaging requirements should be required through other documents. (Renault: Suppliers Logistics Guidebook, Nissan: Other Supply Requirement)
  - ✓ Organize the identification and traceability requirements
  - ✓ Organize the appearance approval requirements

Appendix

## DR (Design Review) process

Commonize Full Process DR/Quick DR process.



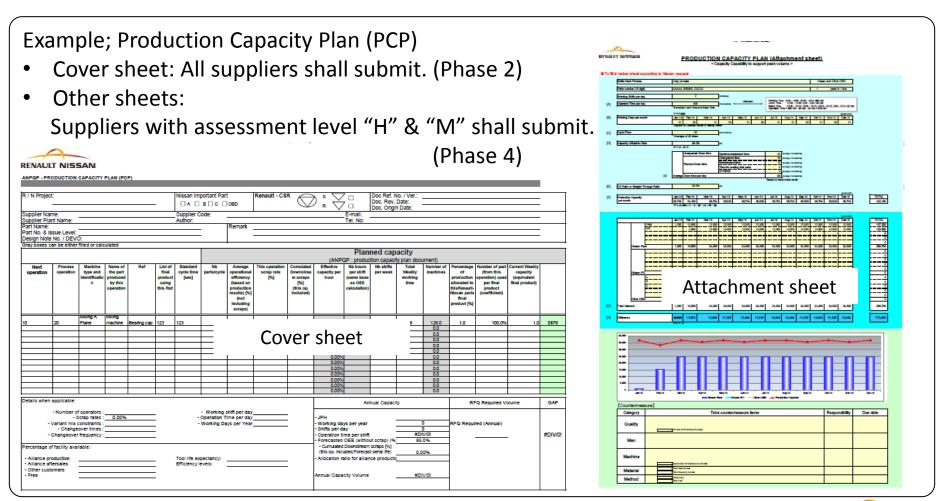
- Commonized support tools for each DR process.
  - ✓ Full Process DR:

Full Process DR Record, System Structure Diagram, Function Block Diagram

✓ Quick DR: Quick DR Record, Change List

## PSW (Part Submission Warrant) process

 Reinforce the process to validate suppliers' production capability and commonize Full Volume Confirmation Audit & Production Capacity Plan.



## Non-conforming Product Management

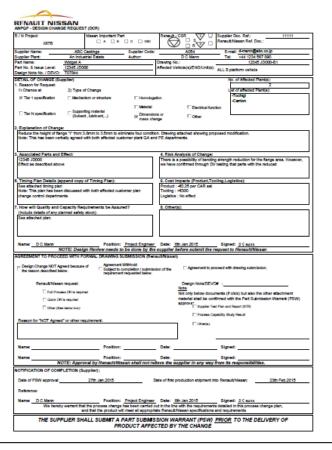
Commonize process & output documents.
 (including supporting tools for root cause analysis)

8D Concern and Countermeasure Report Summary RENAULT NISSAN 8D - CONCERN AND COUNTERMEASURE REPORT SUMMARY (8D-CCR) Part name PLASTIC LEFT WING Manufacturing Qualit Job tite Quality Manager Job title What actions have been taken to prevent the delivery of nonconforming parts What actions have been taken to prevent the manufacture of non-conforming parts n Renault-Nissan plants? such as fool proffing, testing, process control Actions Scratch on surface 1) Make maintenance standard Manufacturin 2008/05/30 300 100 10 2) Operator training by new standard Who Renault plant QA found 100% visual inspection Warehouse stock What Scratch on surface of the part 100% visual inspection 3) Process audit 2008/05/30 Where Renault vehicle assembleprocess Service parts Not Appricable How At final Inspection Why AVES V1 low are OK parts identified ? Attached green mark on the back of part Other models Check the Issue detection level. Suspect parts were 100% rejected based on the Generic parts Man, Material, Machine, Method Other colours All colours Who, Where, When Why, How Process settings, rework Front/rear Dept. Number of the parts found in R-N plant 500 Attach relevant data (e.g: Dimensional report, Capabilty study, Atribute ) in-correct stripping GB Manufacturin Yes 2) Undefined rework process /anufacturing SD Do any of the following require action as a Yes No Undefined package mainteanance result of this concern? CD During process/manufacture in house work/inspection instructions ND (Manufacturing) Afetre manufacture (e.q final inspection Process Flowchart GD (Manufacturing) 2008/06/3 Prior to dispatch Control plan / chart ND (Manufacturing) 2008/06/30 Reason for non detection ? Auto-control operation have not been executed although it is written in Drawings the control plan. Level 1 audits have not been achieved Others (investigation, pokayoke... Sub-supplier follow-up

## **Design Change Management**

Commonize the process and unique outputs.

## Design Change Request

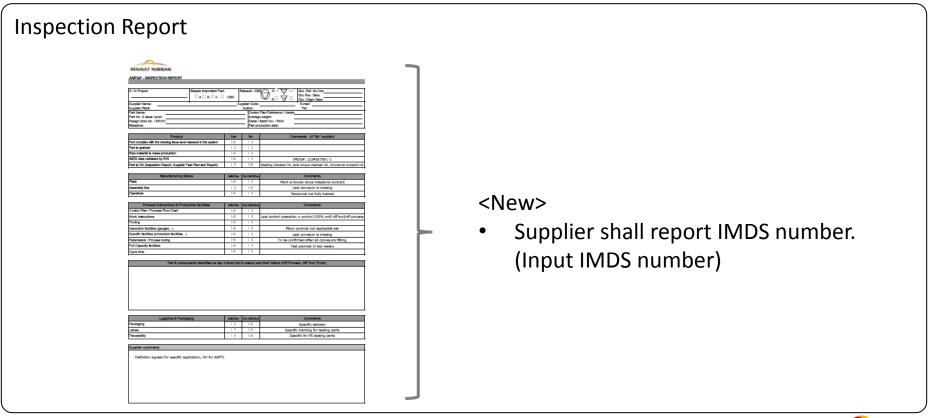


#### <New>

- Renault/Nissan may request to comply with below;
  - ✓ Full Process/Quick DR requirement
  - ✓ PSW (Part Submission Warrant) attachment
- Suppliers shall report a date of first production shipment to Renault/Nissan.

## **Environmental Requirements**

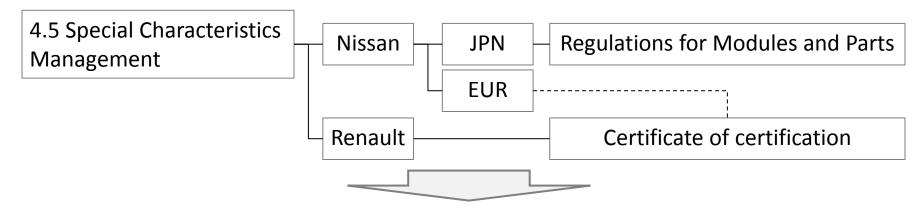
- Commonize process and output (IMDS data input) after sorting the elements of requirements.
- Delete Material Investigation Report (Nissan) and request to report IMDS number with Inspection Report (6.1).



## 4.5 Certificate of Certification/Conformity of Product

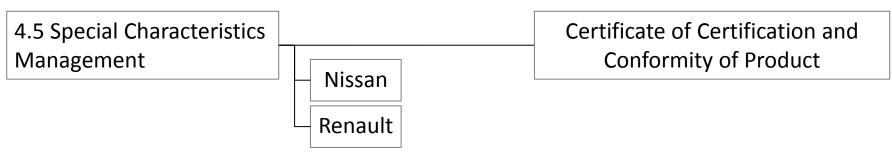
#### <Current>

 Each company requests to comply with own certificate of certification and conformity of product requirement.



#### <New>

Clarify request process and commonize output document.



Category #	Process (Element activity)	Current	New
9.2	Process Change Request	Nissan unique process is written.	Common process is written.

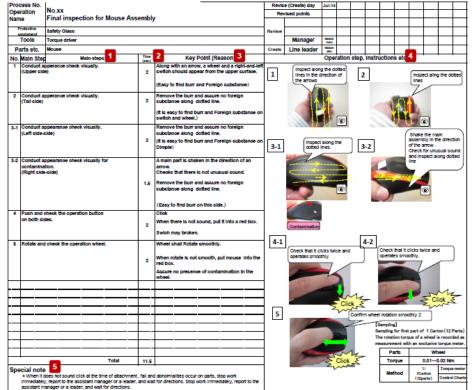
Category #	Output document	Current	New
1.1	Product & Process Concept Proposal	Renault may request to comply with unique requirement.	Common requirement
1.2	Product Reliability Targets Study Plan	Different document submission level and timing	Regardless of any assessment level, submit document in Phase 2.
2.1	Component Supply Chain Chart	Renault may request to comply with unique requirement	Common requirement
2.1	Sub-supplier PSW or equivalent	Renault unique output	Common requirement
3.2	Design Assurance Plan	Nissan unique output	Delete (Use Supplier Master Schedule)
3.2	Supplier Master Schedule	Different document submission level and timing	Regardless of any assessment level, submit document in Phase 2.
3.3	Project Development Record	Nissan unique output	Common requirement

## 2. Added examples/key-points

Added based on the root cause analysis results.

#### Example; Work Instruction (WI)





#### Key points for each column

No		Items	Potential risk (if not specified)
1	Main steps	Even if a worker changes, the turn and the methods of work, such as how to move hand and foot so that the same work result may be brought, are described.	When work varies by workers, cycle time, product characteristics, a quality characteristic, etc. are influenced.
2	Time (Sec)	Work and inspection time required in order to secure the production capacity and quality which were set up.	<omission of="" operation="" standard="" time="" work=""> - If the planned cycle time is insufficient, then it is impossible to attain plan production volumes - Insufficient inspection time leads to poor product quality Cleven if time is indicated, sometimes there is a big deviation between the planned and actual operation inspection times&gt; When operation time is insufficient, incorrect parts flow happens by omitting a part of inspection and work.</omission>
3	Key Point (Reason)	Explains the point (main point) for working correctly, and it must always be protected.  Explained why Key point must be observed.	-If Key point is not followed then the product quality and safety is compromised.  Cannot understand Key point as an important point.
4	Operation step, Instructions etc	To make the contents of work easier to understand by figure, photo and etc.	If only explanation by text only,  'When educating new worker, it is harder for a new worker to understand operation correctly.  -Judgment is mistaken when a worker is unclear about the judgement.  'When a superintendent does work observation, it is hard to judge whether work is done correctly and easily.
5	Special note	Describes for being specially careful for a operator. There are many written examples of correspondence of trouble shooting.	

Key points on following processes/outputs added:

- Processes:
  - √ 5.3 Tooling, Gauges and Facility

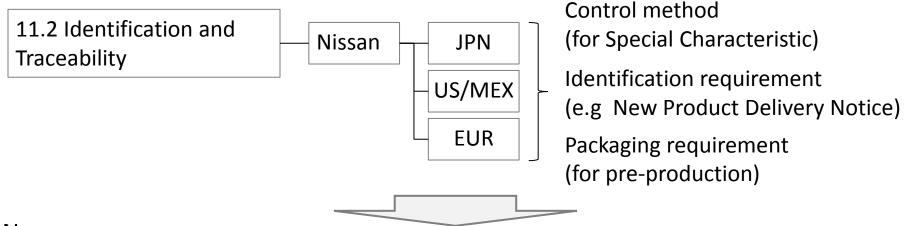
    Management
  - √ 8.1 Non-conforming product management
- Outputs:
  Supplier Master Schedule, Floor Plan Layout,
  Control Plan

# 3. Make the requirement understandable

## 5.7 Identification & Traceability

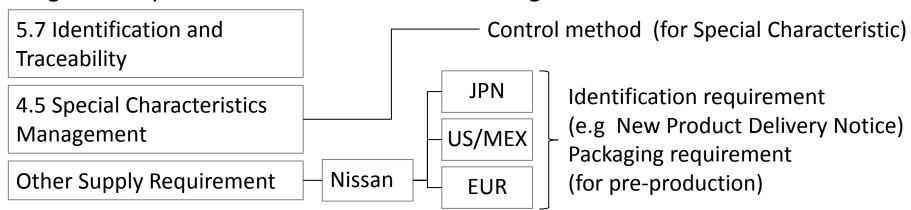
#### <Current>

Different processes at Nissan are required.



#### <New>

Organize requirements for better understanding.



# 3. Make the requirement understandable

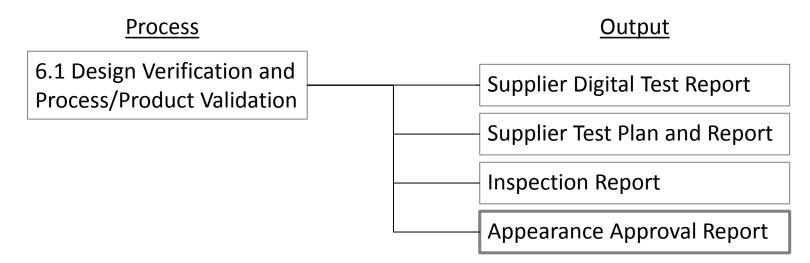
## **6.1 Appearance Approval**

#### <Current>

 Appearance Approval Report as Nissan's unique output is required without any process requirement.

## <New>

 Appearance Approval Report (Nissan's unique output) is added in "6.1 Design Verification and Product/Process Validation" to clarify the process/product validation.



# 3. Make the requirement understandable

## 10.1 Logistics & Packaging

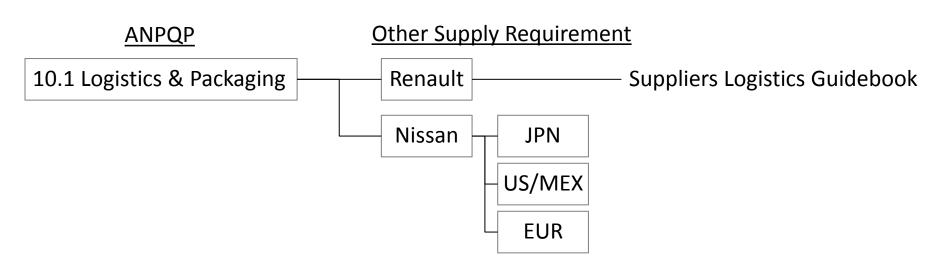
#### <Current>

Unique process & output (Renault) are written.



#### <New>

 Specific requirements of logistics and packaging are moved and defined out of ANPQP. (ANPQP is the common requirements for ISO/TS 16949, Quality Management Systems.)



# **APPENDIX**

# **ANPQP** application guide

#### <u> 1. Effective</u>

 from Apr '15 (New revision deployment in Mar '15)



#### 2. Application policy

- Progresses of the new projects are;
  - 1) Before "Start Supplier Sourcing":

from ANPQP-Phase 1 (Green)

2) Between "Start Supplier Sourcing" and "Tooling Release":

from ANPQP-Phase 3 (Yellow)

3) After "Tooling Release":

from ANPQP-Phase 5 (Orange)

#### 3. Remark

• Each responsible department will identify version of ANPQP with equivalent document.

