NISSAN
MOTOR CORPORATION

Process FMEA

Key Point(s):

- A Process FMEA is an analytical technic used by a cross-functional team to ensure that all potential failure modes and their associated causes have been identified and countermeasured. Complete assemblies, along with every related system, subassembly and component should be evaluated.
- The supplier must ensure consistency throughout all documentation (e.g.: Control plan, Process Flow Chart , Special Characteristic and Key Features Diagram, Inspection Report, FMEA) for;
  - operation step numbering
  - product characteristics identification

Minimum Content Requirement(s):

- Unless otherwise specific request from Nissan, the supplier can use own standard based on automotive industrial guideline for FMEA such as AIAG (Automotive Industrial Action Group), VDA (Verband der Automobilindustrie e.V.).
  Major items and meanings are below which is for instant reference.

Item	Specific Requirement
Process Function	The name of the process being analysed in detail. All processes should be considered (including inspection etc.)
Requirement	Describe the process function (role and function to be essentially fulfilled) of the items. If the item has more than one function, describe each function in parallel.
Potential Failure Mode	Anticipate and describe all possible ways the process could fail to meet the process requirements and/or the design intent, not how it will fail. When describing the failure mode, avoid using non-specific terms such as 'damage' etc.

Copyright © NISSAN

NISSAN
MOTOR CORPORATION

Potential Effect(s) of Failure	Describe the effects of the failure in terms of what the customer (both external and internal) might notice or experience. The supplier must contact Nissan in order to fully understand the functional relationship between the item being analyzed and other vehicle parts/ systems. The effect(s) of the failure on these functional relationships must be considered.
Potential Cause(s)/Mechanism(s) of Failure	List every potential cause and/or failure mechanism for each failure mode.
Current Process Controls (Prevention / Detection)	Describe the control method which has been applied in the past or is planned to be applied in the future, against the specified failure mode or assumed cause/ mechanism
Recommended Action	Study and describe the recommended action from the view of Design/ Evaluation/ Manufacturing departments, according to the result of risk priority e.g.) Specification Change, Data collection by the confirmation of experiment evaluation or phenomenon, and Study the action in manufacturing engineering and manufacturing process control, etc.

Output Document Description:

Item	Completion Instructions
Project	Nissan Vehicle / Power train project for which the product is being developed / manufactured.
Special Characteristic	Tick all boxes that apply to the product being developed / manufactured.
Document Reference No./ Version	The Suppliers reference no. and version no. for the document.
Document Revision Date	The date of the latest revision of the document.
Document Origin Date	The date when the document was first issued.
Supplier Name	Supplier Company name.
Supplier Plant	Location at which the product will be produced.
Supplier Code	Unique code to each supplier, issued by Nissan Purchasing Dept.
Author	The name of the person who created / revised the document

Copyright © NISSAN

NISSAN
MOTOR CORPORATION

E-mail	The E-mail address of the person who created / revised the document.
Tel	The telephone number of the person who created / revised the document
Part Name	The part name or description as identified on the product drawing
Part No.	As issued by Nissan design department
Design Note No.	The latest design note number that applies to the product being developed / manufactured.

Note(s):

- The supplier shall take into account the specific regulation requirements that shall be applied in each country of sales defined by Nissan.,

Copyright © NISSAN