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DRBFM Work Sheet

Key Point(s):

- The DRBFM (Design Review Based on Failure Mode) worksheet is used to identify potential concerns (failures/dissatisfactions) related to changes in design or circumstance. The content of the document is used in the intensive discussion between the suppliers and Nissan during the “Quick DR” process to identify actions and eliminate potential concerns.
- The DRBFM worksheet targets potential concerns from both design and manufacturing, including potential concerns affecting Nissan assembly plants.
- The actions taken to eliminate each potential concern are determined from the view point of the Design, Evaluation (Test) and/or Manufacturing functions in either the supplier or Nissan. Responsibility and timing for each action shall be clearly identified.

Minimum Content Requirement(s):

- Ensure that the requirements listed below are included.

Document Description:

Item	Document Instruction
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
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	Fill in the name of the parts expressed in the drawings.

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Part No.		As issued by Nissan design department
Design Note No.		The latest design note number that applies to the product being developed / manufactured.
System name Functional Portion name Part name		Fill in system name, functional potion name or part name. “Functional potion” means potion for performing a function, for example, fastening structure, seal structure, etc.
Changes in Design or Circumstance		Clarify the base design and fill in the changes in design or circumstance from the base design.
Newness		Fill in the newness of changes with Nissan.
Functions		Fill in system or part function affected by changes in design or circumstance.
Concerns related to the change	System/Part Failure Concerns that could cause Customer Dissatisfaction	Focus on the changes in design or circumstance and pick up all concerns (failures/dissatisfactions) of the system/part. Pick up all related concerns through the intensive discussion with all related engineers in Nissan. For effective discussion, concerns should be expressed in sentences including the area of concerns and phenomenon instead of a simple word. Example: Early fatigue wear at the point A will be the concern due to the stress concentration by the change in geometry. (× lack of strength)
	Potential Causes of the Concern/ Situation or Condition of the Occurrence.	Fill in the potential causes and circumstances of concerns as concrete as possible. They should be expressed in sentences instead of words for effective discussion.
Vehicle level failure Customer dissatisfaction		Identify the impact of failure / dissatisfaction of the system / parts on the vehicle level and customers.
Failure Grade		Fill in the failure grade as a severity of the concern (failure/dissatisfaction) with Nissan.
Actions taken to eliminate concerns by Design, Evaluation, Manufacturing		Fill in the actions should be taken against the all concerns (failures/dissatisfactions) picked up. Actions should be filled in separately divided in design, evaluation and manufacturing points of view. As a general rule, firstly actions by design should be clarified and the validation of the action should be expressed as actions by evaluation.
Actions for Proactive Prevention (Results of Quick DR)		Fill in the recommended actions instructed by reviewers. Reviewer should review the all concerns, causes and actions taken. The recommended actions should be filled in separately divided in design, evaluation and manufacturing points of view. The person in charge and dead-line should be filled in corresponding to all recommended actions. And when the actions are completed, the results and timing should be filled.

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