NISSAN
MOTOR CORPORATION

DRBFM worksheet

Design Review Based on Failure Mode

Project		Safety ¤ Nissan Impt A ' Impt B ⊏ Impt C ⊏ OBD '' Regulation ⊏	Doc Ref. No. / Ver.: Doc. Rev. Date: Doc. Origin Date:
Supplier Name: Supplier Plant:		Supplier Code: Author:	E-mail: Tel:
Part Name: Part No. Design Note No.		Remark	

Preparation Participants

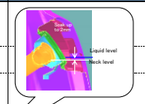
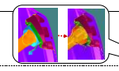
Design Section :
Associated Section :
Supplier :

Preparation		
Section	Manager	PIC

Review Participants

Reviewer :
Design Section :
Associated Section :
Supplier :

DRBFM approval (Review/Action taken)			
Phase	Section	Manager	PIC
Bfr PFC(UC)			
Bfr ECM			
Bfr PM#4			
Bfr PM#5.5			

System/ Functional Portion/ Part name	Changes in Design or Circumstance	New-ness	Function	Concerns related to the change: System/Part Failure Concerns that could cause Customer Dissatisfaction	Concerns related to the change: Potential Causes of the Concern/ Situation or Condition of the Occurrence	Vehicle Level Failure Customer Dissatisfaction	Failure Grade	Actions taken to eliminate the concerns by: Design	Actions taken to eliminate the concerns by: Test	Actions taken to eliminate the concerns by: Manufacturing
Cap protector	Shape (Narrower opening area)	3	Protection of cap at the time of crash							
			Fix filler tube in body							
	Layout (Low angle opening area)	3	Keep space for opening/ closing cap	It becomes difficult to open or close a fuel cap	The space to insert a finger becomes narrower		C	Xmm >NDS Ymm		
				The neck of filler tube is soaked if the water piles up in cap protector ↓ The neck of filler tube is rusted	The neck level is lower than the liquid level	Water gets into the fuel tank when cap is opened.	C	The weep hole is enlarged. (φ4.5~φ12)	Confirm heap of splashed mud from weep hole by corrosion durability test	
Mud cover	Material (from rubber to steel)	3	Protection against mud splashed by tires to prevent clogging the weep hole	A mud cover corrodes and drops off			C	Change to powder coating	Confirm the level of corrode by corrosion durability test	
	Shape (Wider clearance from tube)	3		Splashed mud is heaped on the mud cover and clogged the weep hole	Mud cover is open to the direction of splashed mud	Filler tube is rusted by filling cap protector with water	C	Direction of mud cover is changed to prevent heap of splashed mud	Confirm soak the neck in water by corrosion durability test	

Actions for Proactive Prevention (Results of Quick DR)											
Design Actions and Results	Person in Charge	Deadline	Completion date	Test Actions and Results	Person in Charge	Deadline	Completion date	Manufacturing Actions and Results	Person in Charge	Deadline	Completion date