

PLATO DRBFM (Design Review Based On Failure Mode) is a new method designed to accompany the development process that is being used more and more in industry. The goal of DRBFM is to make change management an integral part of the development process. Product changes, new customer requirements, changes to the specification, and changes to the application have led to massive problems and product recalls in the past. DRBFM provides a systematic examination of changes to products and a creative discussion method so that change processes can be successfully brought under control using teamwork.

Li-Ion-Accumulator

Modified byPlatoModified at01/30/2015 10:59

CommentLi-Ion-Accumulator is used in series 14500 - 14650.



Change	Function	Concern	Cause				
Change	Status	Function	Failure Mode (FMEA)	Failure Mode (Team)	Potential Failure Causes (FMEA)	Potential Failure Causes (Team)	Failure Effect (FMEA)
Ensure leakage protection through plastic film	G	Embedding with film	Film tears	Film thickness irregular	Material defect	Material selection	Leakage protection insufficient
				Surface has holes.			
next Change ...	G						

Fig.: Excerpt from the DRBFM Form

Application and Use

- Successful design and implementation of change processes
- Integration of all affected persons in a „discussion“ and shared responsibility
- Ensuring a robust design when design changes (shape, dimensions, tolerances, materials) are made
- Implementing customer requirements, changes to the specification, and changes to the application
- Modified manufacturing and assembly processes

Branches and Standards

PLATO DRBFM is used for all changes to development and production processes regardless of the industry.

PLATO e1ns Database

DRBFM supplies data for FMEAs, production control plans, process flow charts, and system analyses through the central PLATO e1ns database. This integration ensures effective and efficient teamwork throughout all departments – revisions and the necessity to maintain more than one database are eliminated

Main Features and Functions

Focus on the essentials

- Only the change is analyzed, without having to perform a full FMEA.
- Having FMEA data already available is an advantage, but this is not a requirement for the change process.
- Photos or other objects are integrated directly in the form for visualization purposes.

Using knowledge

- Data from the FMEA is used.
- A function that already exists is checked to determine if it is affected by the change.
- Team members can enter comments regarding the change to reflect their concerns and suggestions.

Traceability is guaranteed – using traces

- Traces are connections that describe the dependencies between different data.
- Traces are used in a single form or in different system elements in several forms.
- Trace overviews show complex relationships and the effects of a change graphically.

Individual Form Configuration

Individual DRBFM

Company specifications, commonly used work methods, or additional data can make it necessary to extend or change the form. This is possible due to the toolbox concept of `e1ns.methods` from PLATO, e.g.:

- Additional columns
- Ability to make calculations
- Individual catalogs for specifications, evaluations
- etc.

Changing a form, creating a variant of a form, or creating a new form is performed in the context of configuring the form.