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PROCEDURE FOR DESIGN AND DEVELOPMENT

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Version:	0.1
Created by:	
Approved by:	
Date of version:	
Signature:	

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Change history

Date	Version	Created by	Description of change
	0.1	Advisera	Basic document outline

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1. Purpose, scope and users

The purpose of this Procedure is to define the design control process used by [organization name] during the design and development of its products.

This Procedure applies to all product development, product modifications, line extensions, and product change projects. It covers the overall development of products and services.

Users of this document are members of the design and development team of [organization name].

Commented [AES4]: Include the name of your organization.

Commented [AES5]: Adapt to the organization's needs.

Commented [AES6]: Include the name of your organization.

2. Reference documents

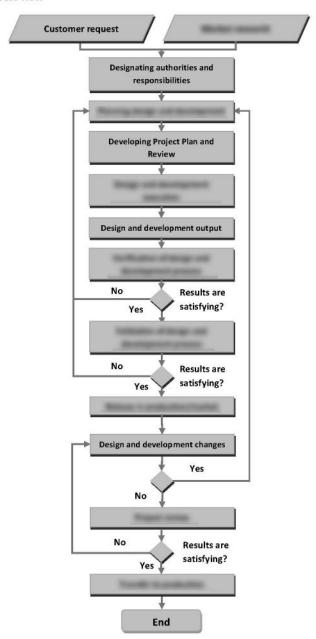
- ISO 13485:2016 standard, clause 7.3
- MDR 2017/745, article 10(9), Annex I Chapter II, and Annex IX Chapter I
- [other legal and contractual requirements]

Commented [AES7]: Delete this if your organization does not need to be compliant with MDR.

You can find the full text of the MDR on the following link: https://advisera.com/13485academy/mdr/

3. Design and development process

3.1. Process flow



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3.2. Forming preliminary design

According to the customer's request or determined needs of the market, [job title] defines the

Commented [AES8]: E.g., Design Manager, QA Manager,

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3.3. Authorities and responsibilities in design and development

The design and development team is responsible for the following:

- Implementing design control
- Generating project schedule and plan

Commented [AES10]: Control that ensures compliance with

The design and development team leader has the following responsibilities:

- Assuring that all requirements are addressed, documented and approved as necessary including the rationale/justification for not performing certain activities
- Obtaining top management approval for any additional resources and/or funding
- Approving changes in design
- · Managing relationships between different groups involved in design and development

Commented [AES11]: E.g., customers, suppliers, third parties, etc.

3.4. Planning design and development

According to the preliminary design, the team leader creates the project activities, which are part of the Design and Development File and Design and Development Inputs & Review, which contains input data that defines the requirements for product by including the following:

3.4.1. Functional and performance requests

The functional specification described in the Project Task by the design and development team leader according to the customer request for product addresses at least the following points:

- The performance objectives, operating conditions, and the requirements for reliability, availability, and maintainability
- Mechanical, electrical, cryogenic, radiation resistance, and other technological constraints to be respected by the design
- Safety and regulatory requirements constraints

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· Demanded quality of service and timeframe

Commented [AES12]: Adapt to the organization's needs.

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3.4.2. Legal, regulatory and other requirements

[Job title] identifies legal and regulatory requirements and other normative documents used for dimensioning the product, selecting materials, defining manufacturing, assembly, testing and operation procedures defined in the design documentation.

Commented [AES14]: E.g., design and development team leader.

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Commented [AES18]: Common specifications are different

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3.4.3. Information gathered from previous similar projects

The design and development team leader must take into consideration the previous similar projects in order to prevent recurrent mistakes and to avoid exceeding the budget and time schedule.

3.4.4. Other requirements important for design and development

[Job title] must define other requirements related to design and development,

3.5. Developing the Project Plan and Review

According to Project Task and input data for design and development, the design and development team leader, together with team members, creates the Project Plan and Review and defines:

- Project phases
- Responsibilities of team members for each phase
- Phase realization deadlines

The design and development team member responsible for phase execution enters the following into the Project Plan and Review:

- All activities related to phase realization
- Input elements of the phase

Input elements of the phase

[Job title] must ensure that the Project Plan and Review includes requirements of risk management

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Commented [AES24]: E.g., human resources, finance,

Commented [AES25]: E.g., design and development team leader.

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3.6. Design and development execution

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The design and development team member responsible for the project phase ensures that all activities of the phase are conducted and all necessary records about the phase are kept.

The design and development team leader convenes a formal meeting attended by all participants in design and development, and minutes for the meeting in free form represent a record of the review.

After each phase review, the design and development team leader approves the start of the new phase by signing the Project Plan and Review.

3.7. Design and development output

After completion of the last phase, the design and development team leader, together with team members, enters in the Design and Development File additional information related to deliverables of design and development, such as:

- Information about purchasing, production and services provision once it's launched
- Criteria for accepting the product before production

[Job title] must approve these output elements of design and development, contained in the Design Review Minutes, before acceptance of product.

3.8. Verification of design and development process

[Job title] conducts verification in project phases according to Design and Development Verification and Validation Plans where necessary, and determines whether the output elements address the input elements of the design and development process.

3.9. Validation of design and development process

Validation is a check-up process that determines whether the final product is capable of satisfying the needs of the customer in specified conditions of use.

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Commented [AES27]: E.g., R&D Manager, QA Manager.

Commented [AES28]: Deliverables can be in different form.

Commented [AES29]: E.g., specification of materials for

Commented [AES30]: E.g., Instruction Manual for Product; or

Commented [AES31]: Instruction for handling product in a

Commented [AES32]: E.g., CEO or design and development

Commented [AES33]: E.g., CEO or design and development

Commented [AES34]: E.g., test engineer, QA tester, design and

Commented [AES35]: E.g., CEO, QA Manager.

Commented [AES36]: E.g., R&D Manager, QA Manager,

The design and development team conducts validation before release of the product to production.

Commented [AES37]: In some cases, validation can be conducted by computer simulations and animation.

Commented [AES39]: E.g., R&D Manager, QA Manager,

3.10. Release in production/market

[Job title], together with the design and development team leader, organizes a test production of the designed product.

Commented [AES38]: E.g., CEO, QA Manager.

Commented [AES40]: E.g., Production Manager

3.11. Design and development changes

Changes in design and development can occur in every phase of design and development as a result of the following:

- · Changes of product specification on customer request
- · Evaluation of the effects of the changes on the product
- · Problems during production
- Demand of market for improved product
- Validation activities
- Inputs or outputs of risk management and product realization processes

The design and development team leader must document all changes in the Change Review Record,

Commented [AES41]: Organization can add or delete listed

3.12. Project review and transfer to production

After completion of all phases of design and development, making a prototype and releasing to production or market, the design and development team leader conducts a review of design and development and delivers Design Review Minutes to [job title].

[Job title] must ensure that Design and Development Files contain all data about the product.

Commented [AES42]: E.g., CEO

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Commented [AES45]: E.g., R&D Manager

Commented [AES46]: E.g., R&D Manager and Production

3.13. Design and development files

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[Job title] must ensure that all files and records resulting from the design and development process are properly maintained.

Commented [AES47]: E.g., R&D Manager and Production Manager

4. Managing records kept on the basis of this document

		St	Storage		
Record name	Code		Secretary.	Representative	
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 Appendix 2 – Project Pl Appendix 5 – Design ar Appendix 6 – Verification 	nd Developm		nd Validation Plans		
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[organization name]