CERN drawings rules

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pour le GrACQ

Groupe d'Aide à la Cotation

et à la Qualité

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Why rules

- Ensure consistency at CERN
- Provide answers to questions
- Decide between various options
- Provide a unique communication tool in job service
- To comply with ISO

Pratical rules for execution and control for drawings at CERN

IN APPROVAL

CERN
CH-1211 Genève 23
Suisse

Nº EDMS	VERSION	VALIDITÉ
1053973	2.1	DRAFT

RÉFÉRENCE
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COMING SOON IN ENGLISH

Date: 2015-08-27

INSTRUCTION QUALITÉ

RÈGLES PRATIQUES D'EXÉCUTION ET DE CONTRÔLE DES DESSINS

RÉSUMÉ :
This document, authored in French, provides guidance for the preparation, verification and validation of drawings.

Checklist for Control 1 et 2

IN APPROVAL

CERN
CH-1211 Genève 23
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Nº EDMS	VERSION	VALIDITÉ
1504385	0.2	DRAFT

RÉFÉRENCE
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CHECKLIST QUALITÉ

CONTRÔLE 1 ET CONTRÔLE 2 DES DESSINS

RÉSUMÉ :
Ce document rappelle les objets des contrôles 0, 1, 2 et 3 des dessins, précise les responsabilités des contrôleurs et fournit deux checklists à utiliser pour procéder aux contrôles 1 et 2 avec systématisme.

Checklist for Control 1 et 2

1. PURPOSE AND SCOPE

These prescriptives checklist were prepared to accurately describe the control actions.

It is applicable to all drawings produced by all of CERN's design office.

For more informations, visit GrACQ's website:

https://espace.cern.ch/GrACQ/SitePages/Home.aspx.

Checklist for Control 1 et 2

2. RESPONSIBILITIES

The control does not relieve the designer's responsibility.

The control shares responsibility within the limits defined in this document.

Checklist for Control 1 et 2

3. DOCUMENTS APPROVAL CYCLE

A specific ckecklist for profession can complete the checklists attached.

It must follow the rules defined by the document:

EDMS 103558 (*Drawing and 3D Model Management and Control*)

Checklist for Control 1 et 2

3. DOCUMENTS APPROVAL CYCLE

- **Control 0** (DRAWN)

It is carried out by the last person who created or modified the document

It is through the action of the "Ready for check", which means:

- I have completed my work
- I have done it according to the rules*
- The 3D model is conform to the drawing 2D
- You can verified

Checklist for Control 1 et 2

3. DOCUMENTS APPROVAL CYCLE

- **Control 1** (CONTROLLED)

It can only be performed if the Control 0 is made

It is made on the basis of a 2D drawing, extract of CDD, and preferably grouped in a EDMS folder.

It can be done only by a professional design office of the field concerned.

It must absolutely be different from the last person who created or modified the document.

A checklist is used to define the scope of responsibility.

The list of items to control is detailed.

Checklist for Control 1 et 2

3. DOCUMENTS APPROVAL CYCLE

- **Control 2** (RELEASED)

It can only be performed if the Control 1 is made

It should be done by the person who has the understanding of the functional needs to be met or who received the delegation.

It must absolutely be different from the last person who created or modified the drawing, but the controller can be the same as that which has done control 1.

A checklist is used to define the scope of responsibility.

The list of items to control is detailed.

Checklist for Control 1 et 2

3. DOCUMENTS APPROVAL CYCLE

- **Control 3 OPTIONNEL** (APPROVED)

It can only be performed if the Control 2 is made.

It is also made by the person responsible for Control 2, which collects from CERN specialist field, validation regarding the technological choices made and parameters used. If he does not follow the advice requested, the person in charge must justified its decision.

It is to be made according to the Quality Category (cf. EDMS 103546 *Quality Assurance Categories*) , or choice of the person in charge of Control 2.

Checklist for Control 1 et 2

ANNEXE

A.1 CHECKLISTS DE CONTRÔLE 1 ET CONTRÔLE 2

Se référer au document EDMS 1053973 (*Règles pratiques d'exécution et de contrôle des dessins*).

PORTÉE	CONTRÔLE 1	CONTRÔLE 2
État dans le cycle de vie	Dans le cartouche indiqué par: CONTROLLED	Dans le cartouche indiqué par: RELEASED
Principes sous-jacents	« Make the drawing right »	« Make the right drawing »
	Il s'agit de vérifier si les règles métier, les normes et les recommandations CERN ont été respectées	Il s'agit de vérifier que l'ensemble des informations portées par le dessin sont conformes au cahier des charges de l'article ainsi modélisé

GrACQ contacts

- Stephane Bally
- Frederic Borralho
- Nicolas Chritin
- Marta Garcia Carnero
- Vincent Maire
- Jeremy Mouleyre
- Pierre Moyret
- Bertrand Nicquevert
- Philippe Orlandi
- Dominique Pugnat
- Patrick Riedo
- Philippe Trilhe
- Gilles Villiger
- Integration?

You need some help?

Contact GrACQ

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