

WORKSHOP

Collaborative development

When a design team consists of engineers and consultants from different organizations, the design development process needs to be carefully co-ordinated.

Before the first _____ (version) of a drawing is sent to members of the team, a decision is made about who needs a copy. Sometimes, a drawing will only be _____ certain specialists in the team. Sometimes, it will be _____ all the team members.

After team members have received a drawing, they can _____ it, and may ask for the design to be changed. Following these _____, the drawing will be _____ – that is, drawn again with the requested changes made to it. Every drawing is numbered, and each time a drawing is _____ (revised), the letter next to the drawing number is changed. Therefore drawing 110A, after a _____, becomes 110B. When _____ is issued, it becomes the _____, and A is _____. With each new revision, written _____ are added to the drawing. These describe the _____ that have been made.

When engineers revise drawings during the early stages of the design process, they may have to _____ (start again), and _____ concepts completely. For later revisions, the design should only need to be _____ slightly.

After a preliminary drawing has been finally _____ (accepted), a senior engineer can _____ (authorize) the drawing as a _____ – that is, one that the production or construction team can _____. However, this does not always mean the drawing will be final. Often, working drawings go through more revisions to resolve problems during production.