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Abstract: This document describes the work required to perform design review.
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1.0 PURPOSE

This document establishes design review instructions, documentation requirements, lowide. scheduling of design reviews, criteria for action item closeout and the items to be defined at each level of review.

2.0 THEORY

Design review is used to enhance the probability of product, software or service success by identifying potential or actual design problems. The solution of identified problems is not attempted at the review but is assigned as an action item. Reviewing a design does not imply a lack of confidence in the designer - it is a normal and necessary part of best engineering practice. Designers of critical items welcome rigorous design reviews for the peace of mind they provide. They help assure that something has not been overlooked because the designer was too close to the work. There is no reflection on a person's competence in having to respond to action items. To serve as a design reviewer indicates that your associates regard you as an expert.

3.0 DESIGN REVIEW

All deliverable hardware and software must undergo

3.1 Number and Type of Design Reviews

The number and type of design reviews will depend on the complexity and criticality of the product, software or service. In principle, the design review must

A simple, non-critical hardware, software or service may only require a single design review.

3.2 Scheduling Reviews

At the start of a program, responsible authorities must meet to determine

Sufficient time must be allowed for the design to

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The responsible authority and

3.3 Heritage Design Review

Designs that are qualified by another program do not require additional review unless

Surtware and Service Reviews
Computer programs, contents of ROM, PROM and other programmable devices and
 A

appropriate support personnel must

3.6 Interfaces

Reviewers should devote extra attention to both the intentional and unintentional interfaces under all modes and conditions. For example -

3.7 Post Review Design Changes

Changes made to a design subsequent to a successful review should Design changes even minor ones made after the final design review (CDR) are Fully configured programs begin formal change control immediately following CDR and

3.8 Design Review Items

- 1. <u>Requirements</u>.
- 2. Design



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- 4. Design Package.
 5. Agenda.
 6. Review Minutes.
 7. Closeout of Action Items.
- 3.9 Inappropriate Items for a Design Review



4.0 Types of Design Reviews

4.1 System Level Reviews

4.1.1 Baseline Design Review (BDR)

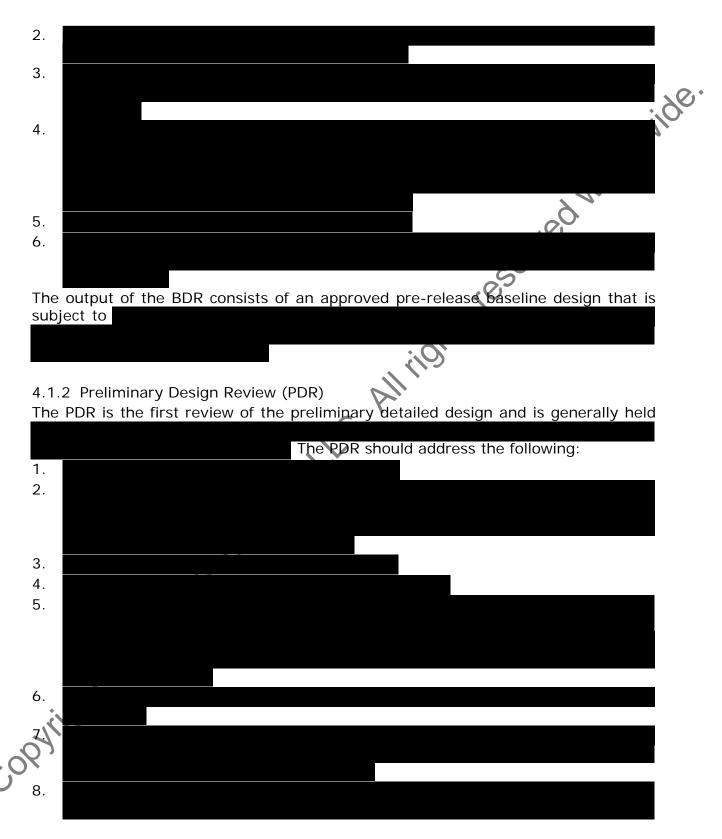
The BDR is held to assure that the project objective and requirements are understood and the proposed approach will meet them. The emphasis is on

The BDR must be held early enough so that concepts can be examined and modified without

The BDR should address the following:

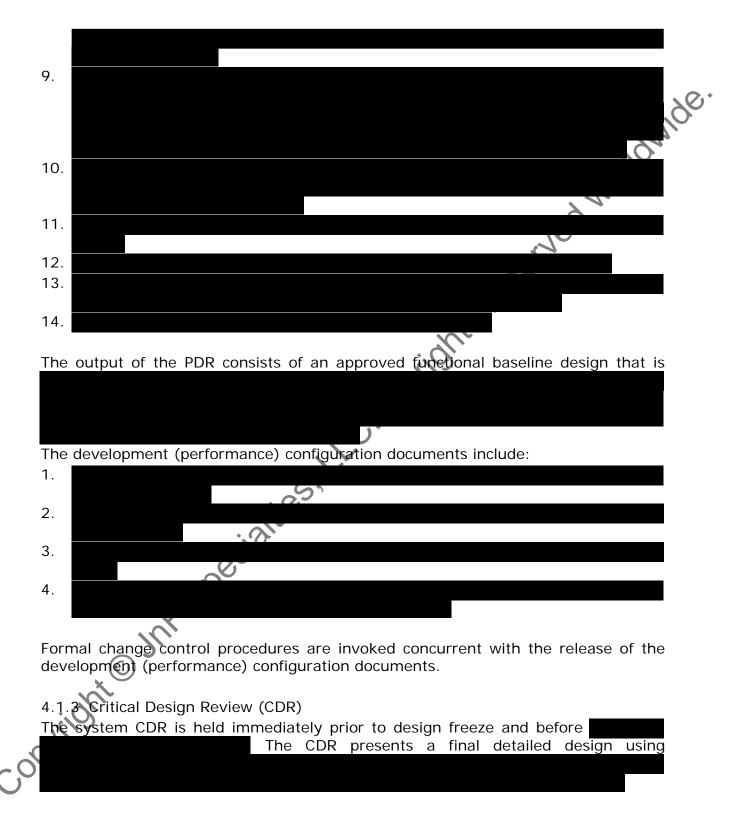
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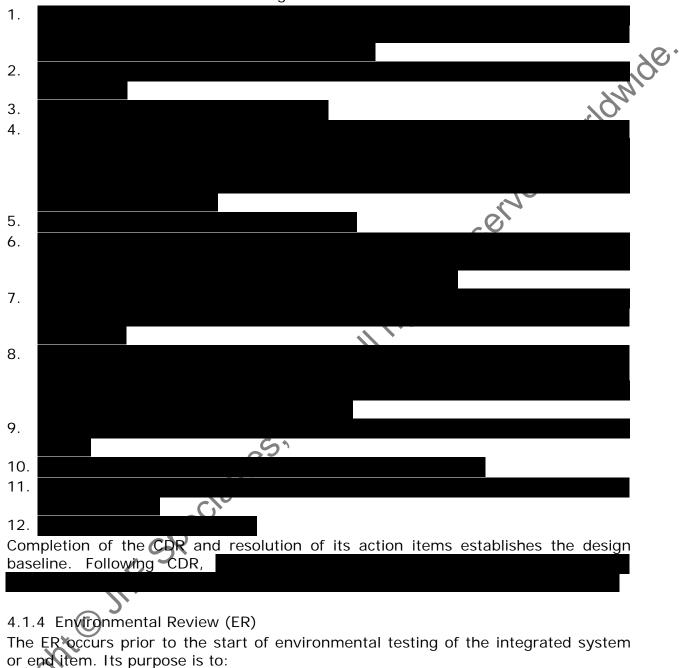
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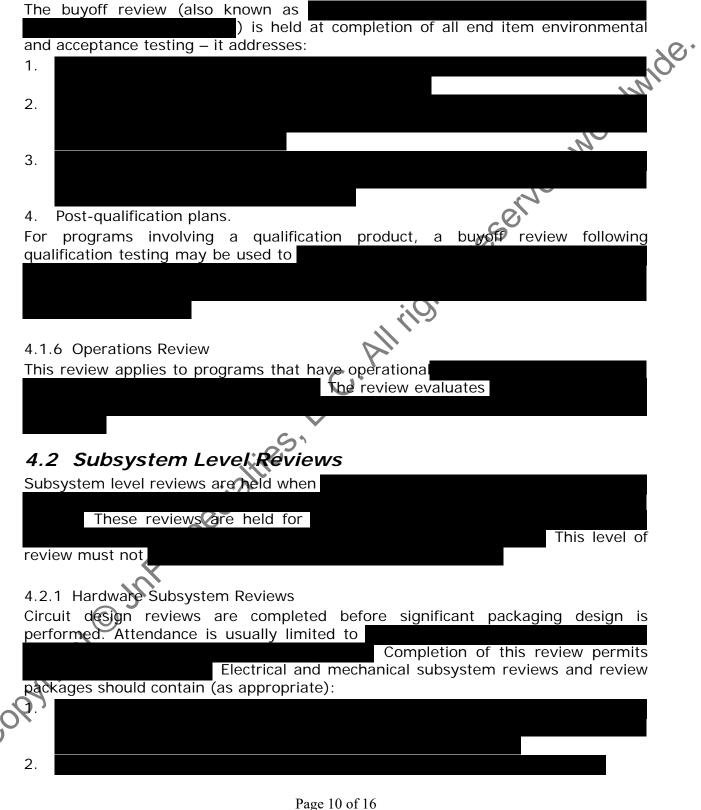


The CDR should address the following items:

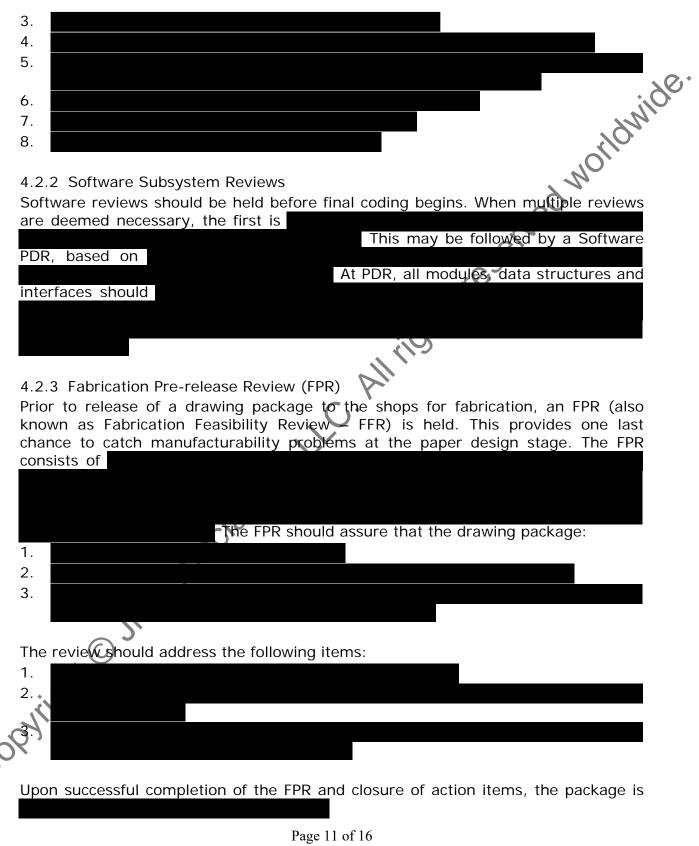
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4.1.5 Buyoff Review



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4.3 Other Reviews

Some programs require external reviews. These reviews may be able to supplant portions of certain in-house reviews. Interactions between external and internal A "lessons" providers should

learned" review is often beneficial when held after completion of the project.

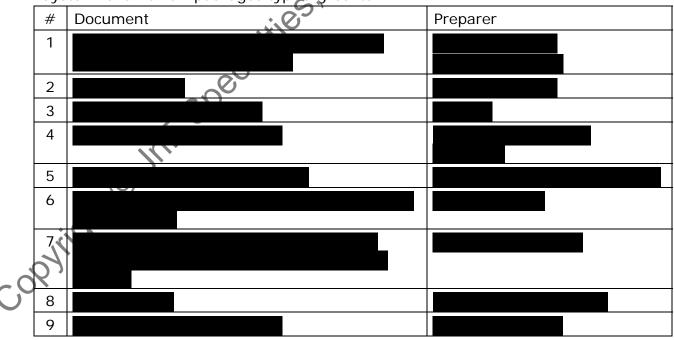
5.0 Design Review Packages

All design reviews require a review package. For all but the FPR, the package must

Preparation of the review package is one of the major benefits of holding a design review – the designer will often discover design problems during the process. The package contents are

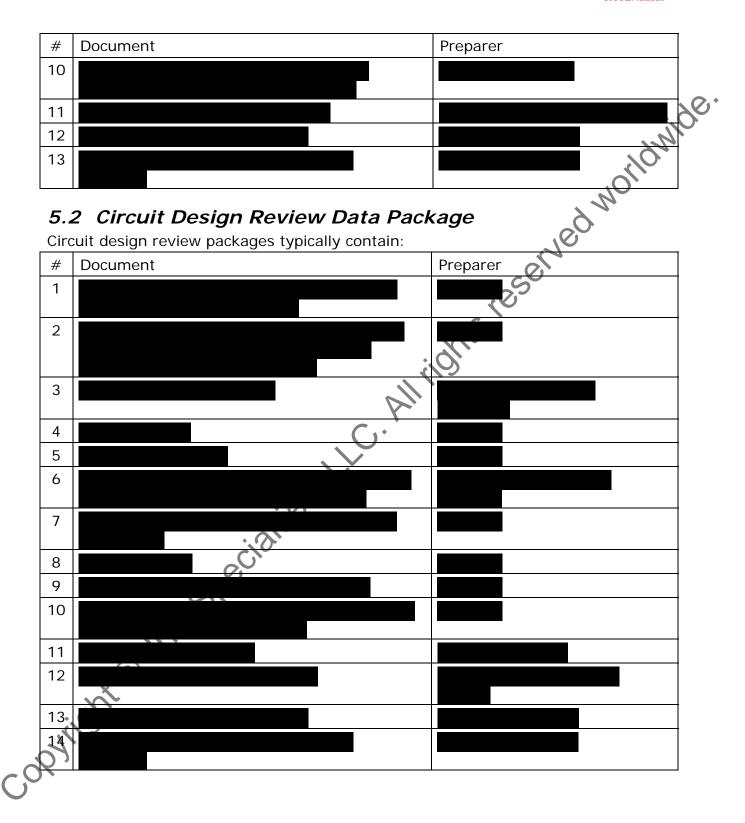
5.1 System Level Design Review Data Package (BDR, PDR, CDR)

System level review packages typically contain:



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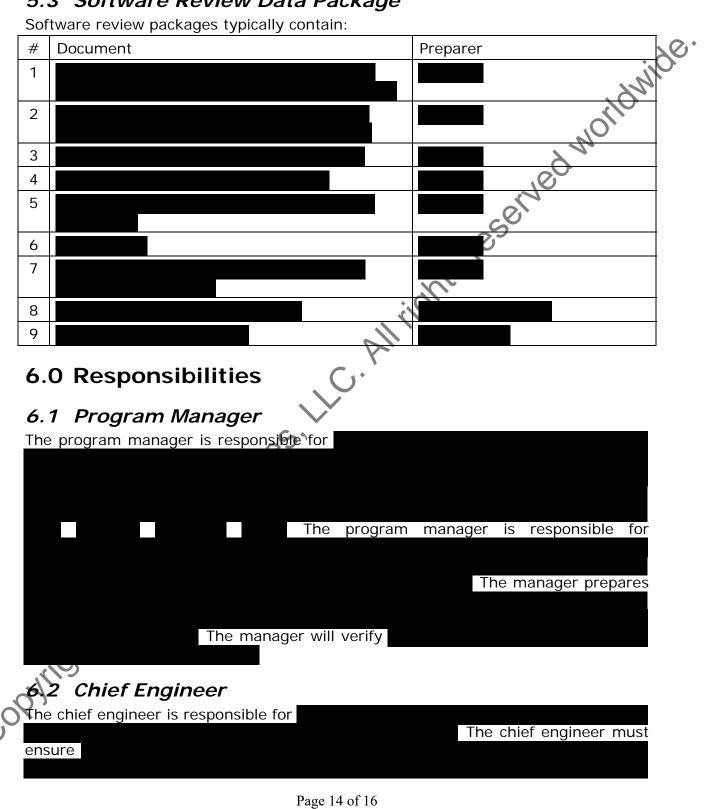


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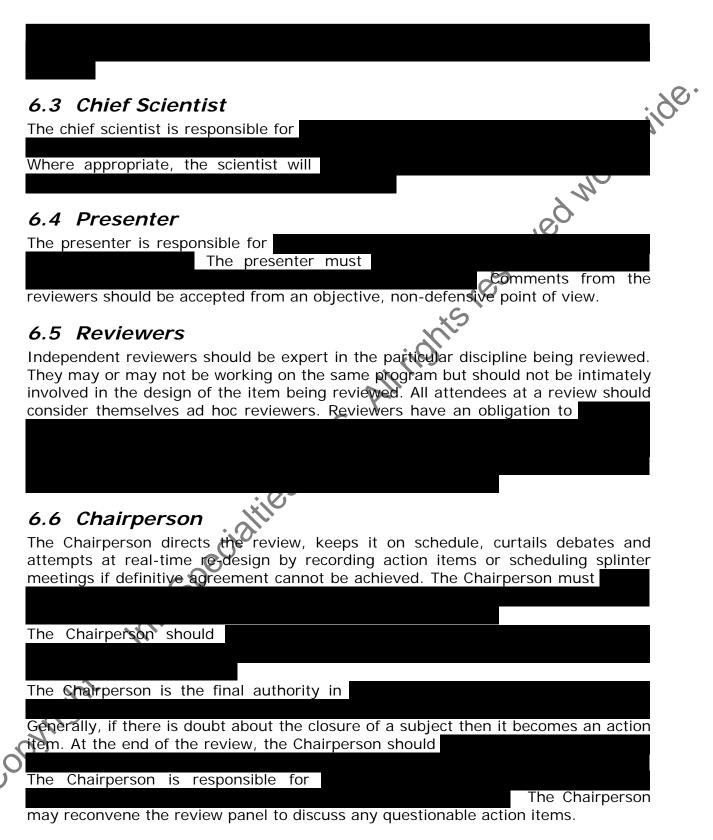
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5.3 Software Review Data Package

Software review packages typically contain:

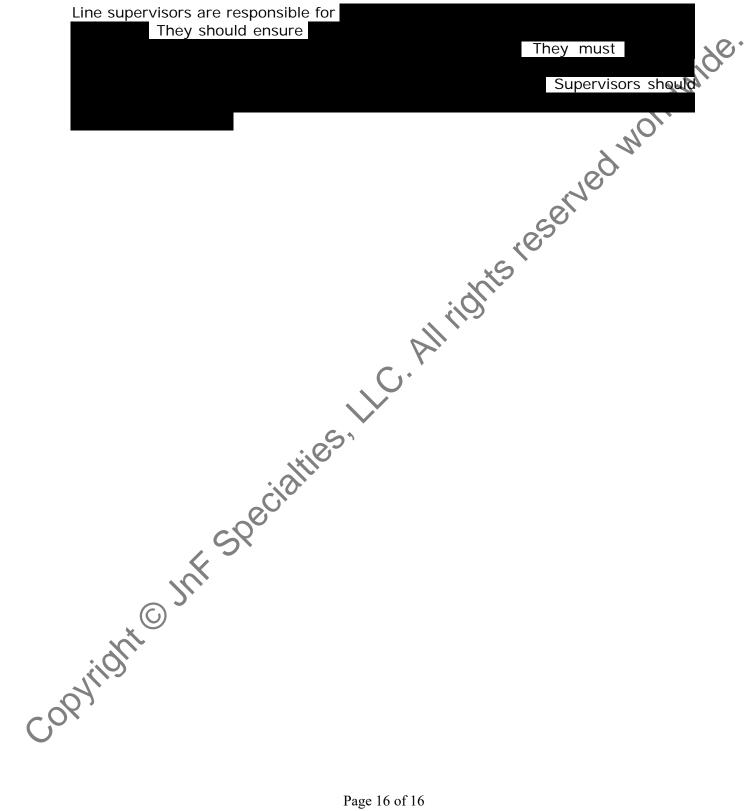


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6.7 Section, Group and Department Supervisors

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