

Safety Critical Standards Review

R.P.Clark

December 3, 2010

Abstract

This paper describes the legal frameworks and standards organisations that exist in Europe and North America. Some specific standards (that the author has experience with directly) are reviewed.

1 Introduction

1.1 Product Life Cycle

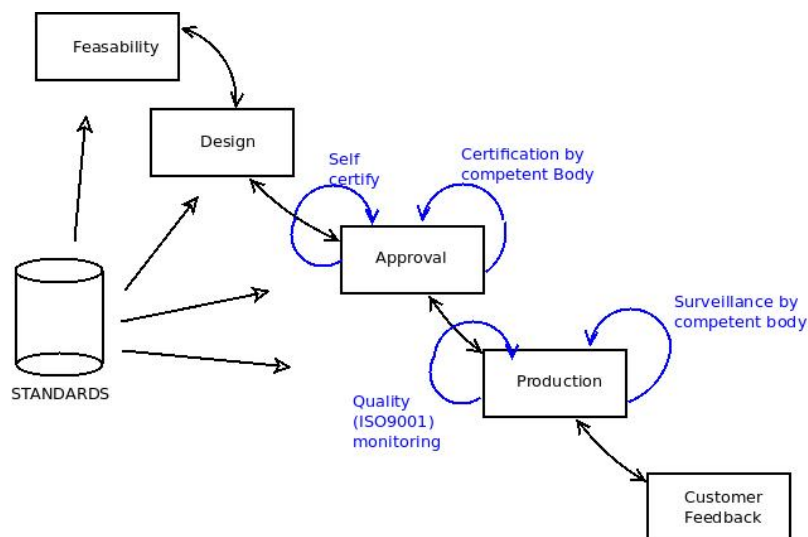


Figure 1: Product Life Cycle with Competent Body Approval and Surveillance

different areas EN61508 REQ to SPEC to DESIGN
EN298 DESIGN TO TESTING (EMC PRODUCT
FM PRODUCT VERIFICATION MONITORING
NEW A PRODUCT LIFE CYCLE IMAGE WITH AN EULER DIAGRAM FOR THE DIFFERENT
STANDARDS

Different agencies - approval is testing of new product and verification to standard - manufacturing
overwatch / supervision word on tip of tongue -

2 European or ‘EN’ Standards

2.1 Scope

2.2 Approval Process

2.3 Legal Framework

2.4 References

3 North American Standards

3.1 Scope

3.2 Approval Process

3.3 Legal Framework

3.4 References

Protection against being sued mainly ! UL - underwriters laboratories.... etc

4 Cross Referencing

Standards of ten reference other - i.e. EMC testing in EN298 refers to EN blah blah to level blah blah

5 Standard in detail: EN298

6 Standard in detail: UL1998

7 Standard in detail: EN230

8 Standard in detail: EN61508

December 3, 2010