

Date: December 3, 1993 *July*

Minutes of the AGS Radiation Safety Committee

Subject: Guide for Design Review of Active, Fail-Safe  
Access Control Systems.

Meeting Date: October 15, 1993

Present: D Beavis, H Brown, A Etkin, JW Glenn, A McGeary,  
S Musolino, J Spinner, A Stevens,  
and Guests: C Conkling, R Frankel, J Geller, B Oerter,  
J Preisig, A Stillman, R Youngblood, & E Zitvogel.

Summary

The Committee did a first pass review of a draft "Fail Safe Design Criteria". We enthusiastically endorsed the concept. Suggestions will be incorporated in a rewrite.

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R Frankel presented his first pass at "Fail Safe Design Criteria" (Attachment 1). The goal is that this criteria be sufficient for a review committee that judges a device that fulfills the details of this criteria, should be considered "fail safe". Basically, Section 1 is a tutorial on failure analysis while the remaining twelve sections are detailed guidance on how to meet a "failsafe" condition.

Comments centered on the tutorial part, and included:

The concept of "Challenge rate" should be included as its use could dramatically affect the result of reliability calculations.

A greater use of references would increase the value of and possibly reduce the size of this section.

A list of the "Boundary Conditions" on reliability (for example: Test rate, Challenge rate, etc.) would help.

The Committee was impressed by this effort and appreciated the effort Frankel has made. Specific comments, particularly on the detailed guidance part, are to be given to him by next week for a rework.

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Attachment (file only): "Fail Safe Design Criteria" draft 0.102,  
Jun 16, '93.

Distribution: Radiation Safety Committee  
Department Administration  
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