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Design for Reliability for the High Reliability Fuze

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Highlights

- A design-for-reliability approach is proposed to increase the reliability of a cluster munition fuze.
- Probabilistic, physics-of-failure, fault tree, and FMECA analyses are performed.
- A high-reliability design requires three expulsion sensors and three safe and arm devices.
- Common cause failures are avoided with use of both electromechanical and MEMS safe and arm devices.

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