

Safety Assessment Report (SAR)

For

Remote Data Concentrator

UNIMAX-AV-16-01

RDC_PL_SY_01

Revision: 1.1

<Trade Off Study>

Document Approval

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Revision History

Date	Revision	Author	Reason for Change
11/11/2016	0.1	Soon-Kwon Hong, Jong-Hwa Na	Initialized a draft with basic structures
25/11/2016	0.2	Jae-wan Lee	First version, to be internal reviewed
	0.9		SQA Meeting of Planning Process is finished, internal approval version
	1.0		Submitted version for approval
11/06/2020	1.1	KIM SEONG HWAN	- Ch.1 and Ch.2 had been modified. - Correct the wrong name

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1 소개

1.1 목적.

이 문서에서 제공되는 분석은 중형헬리콥터용 신호변환장치(RDC, Remote Data Concentrator) 설치가 FAR29.1309 단락 (b) 및 (d), FAR 27.1309 단락 (b)의 요구 사항을 준수 합니다. 그리고 (c), FAA 자문 안내 AC 29-2C, AC 27-1B 및 AC 29-XX (초안 4/20/01). 이 문서에서 수행 된 분석은 FAR Part 27 의 섹션 27.1309, FAR Part 29 의 section 29.1309, AC 27-1B section AC 27.1309.d., AC 29-2C section 29.1309.d. 와 AC 29-XX (초안 4/20/01) section 10 에서 식별되거나 조건을 충족하는 RDC 고장 조건에 대한 평가입니다.

1.2 Reference Documents.

안정성평가 분석을 수행하는데 다음 문서가 사용 되었습니다.

KOREA AEROSPAE INDUSTRIES: Development Requirement for LAH SIL

LAHPZE0035

FAA Documents:

Federal Aviation Regulations (FAR) Part 29 Airworthiness Standards: Transport Category Rotorcraft

29.1309 Equipment, systems, and installations

Federal Aviation Regulations (FAR) Part 27 Airworthiness Standards: Normal Category Rotorcraft

27.1309 Equipment, systems, and installations.

Advisory Circular: Certification of Transport Category Rotorcraft

AC 29-2C

Advisory Circular: Certification of Normal Category Rotorcraft

AC 27-1B Advisory Circular:

Airworthiness Criteria for the Installation Approval of a Helicopter Terrain Awareness and Warning System (HTAWS) for Part 27 and 29 Aircraft

AC 29-XX, draft 4/20/01

Technical Standard Order: Helicopter Terrain Awareness And Warning System

TSO-C151b

Helicopter Terrain Awareness and Warning System (HTAWS)

TSO-C194

Other Documents:

SAE Aerospace Recommended Practice Certification Considerations For Highly-Integrated Or Complex Aircraft Systems

ARP4754

SAE Aerospace Recommended Practice Guidelines And Methods For Conducting the Safety Assessment Process On Civil Airborne Systems And Equipment

ARP4761

U.S. Nuclear Regulatory Commission Fault Tree Handbook

NUREG-0492

Minimum Operational Performance Standards (MOPS) for Helicopter Terrain Awareness and Warning System (HTAWS) Airborne Equipment

DO-309