

# Technical Requirements Document for the Transportation Dolly

Company C

TERMA Case

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## Dictionary

Term	Definition
URP	Updated Reconnaissance Pod
RDAF	Royal Danish Air Force
SoW	Statement of Work

Table 1. Definition of terms used in the document.

# 1. Scope

The scope of this document is to outline a categorised overview of the requirements specification, by providing quality provisions and references on specifying functional and non-functional requirements for the transportation dolly for Company C. This scope defines the system requirements, by splitting the SoW requirements into standardized categories.

## 1.1 System overview.

The purpose of the transportation dolly is as follows:

- Transport the URP when not mounted on a plane.
- Lifts and lowers the pod when mounting/unmounting the pod

## 1.2 Document overview.

The purpose of this document is to outline the requirement specifications for the transportation dolly.

# 2. Requirements

This chapter includes categorization of functional and other requirements.

## 2.1 Safety requirements

Requirements concerning minimising unintended hazards to personnel and property.

ID	Requirement	Req. Type	Verif. Method
SLR-173	The transportation dolly shall be safe to operate and maintain, meaning that all safety risks shall have a Risk Assessment Code less than "Medium" according to MIL-STD 882.	M	A

## 2.2 System environment requirements

This paragraph shall specify the requirements regarding the environment in which the dolly must operate.

ID	Requirement	Req. Type	Verif. Method
SLR-174	The transportation dolly shall be able to operate under the climatic conditions ranging from "A2 - Hot Dry" to "C2 - Cold" defined in AECTP-230.	M	A
SR-16	The cushioning material on the transportation dolly will be able to operate and maintain properties under the climatic conditions ranging from "A2 - Hot Dry" to "C2 - Cold".	M	I
SR-17	The transportation dolly wheels should be able to operate under the climatic conditions ranging from "A2 - Hot Dry" to "C2 - Cold".	M	A
SR-18	The transportation dolly lift will be able to operate under the climatic conditions ranging from "A2 - Hot Dry" to "C2 - Cold".	M	A

## 2.3 Design and construction constraints

This paragraph specifies the requirements that constrain the design and construction of the dolly

ID	Requirement	Req. Type	Verif. Method
SR-20	The transportation dolly will be able to fit under RDAF F-16 with the URP mounted on the plane, or carried on the dolly.	M	A

## 2.4 Logistics-related requirements

This paragraph specifies the requirements concerned with logistics considerations.

ID	Requirement	Req. Type	Verif. Method
SLR-170	The transportation dolly shall be able to carry the weight of the URP.	M	A
SR-23	The transportation dolly will be able to carry at least 700 pounds.	M	A
SR-24	The wheels should be able to support at least 700 pounds and absorb road bumps.	M	A
SLR-171	The transportation dolly loaded with a URP shall be operable by a single person.	M	A
SR-25	The transportation dolly will have an interface on the back left side.	M	I
SR-26	The transportation dolly interface will have the lift controls and the release button.	M	I
SLR-172	The transportation dolly shall be able to lift and lower a URP for mount and dismounting on a F-16 (both when the aircraft is empty and when it is fully loaded).	M	A
SR-27	The transportation dolly will be mounted with a hydraulic lift able to lift at least 700 pounds.	M	T
SR-28	The transportation dolly will draw power from the transportation truck.	M	T
SR-29	The transportation dolly will be equipped with a scissor lift.	M	A