LOGISTIC SUPPORT FOR COMMON USED UAV’s

Example: Drone CL-289

Prepared for:
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**Logistic Support For Common Used UAV’S Example: Drone CL-289**

**NAMSA Luxembourg**

**SUPPLEMENTARY NOTES**
See also ADM001676, UAV 2002 Conference & Exhibition., The original document contains color images.
NATO MAINTENANCE AND SUPPLY AGENCY

North Atlantic Council
Chartered in 1958

NAMSO
Board of Directors

Oversight by BOD + IBAN

18 Member Nations

Weapon System Partnerships

No Profit-No Loss

Support Conferences

Multi-Lateral Agreements

Common Funded Projects

PROVIDE CO-OPERATIVE LOGISTICS SUPPORT
NAMSA’s Infrastructure

Co-operative Logistics:
- NATO Logistics
- Stock Exchange

Operational Logistics:
- Troop and Infrastructure Support

Contracting:
- Simple, Flexible Procedures
- Source File: 10,000 Suppliers

Budget:
- EUR 50 Million

Warehousing and Distribution:
- Luxembourg
- Taranto, Italy

Workforce:
- @910
- Multi-National and Multi-Lingual

Logistics Support:
- Codification to Disposal

Organic Maintenance:
- Electro-Optical Workshop;
- Calibration Lab

pour servir la cohésion des nations
let’s keep nations together
Logistic Support for Common Used UAV’s

Example:

Reconnaissance System
Drone CL-289
Reconnaissance Drone CL-289

- UAV
- Air Speed 720 km/h
- Preprogrammed Flight
- Event Navigation; Combined Navigation System
- AOLOS: up-dated by P/Y code GPS
- 2 Sensors (Optical Sensor, IRLS)
- 300 - 1200 m Altitude above Ground Level
- Data Link IRLS up to 75 km
- Recovery with a Parachute/Landing Bag System
Reconnaissance System Drone CL-289

The System includes

• Drone including Sensors
Reconnaissance System Drone CL-289

The System includes

- Drones including Sensors
- Launcher
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
• Maintenance Equipment
Reconnaissance System Drone CL-289

The System includes

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
• Maintenance Equipment
• Transportation Equipment
• Data Link Ground Station
Reconnaissance System Drone CL-289

The System includes

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
- Data Link Ground Station
- Film Processing System
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
• Maintenance Equipment
• Transportation Equipment
• Data Link Ground Station
• Film Processing System

Basic System
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
• Maintenance Equipment
• Transportation Equipment
• Data Link Ground Station
• Film Processing System
• Mission Planning Facility
Reconnaissance System Drone CL-289

The System includes:

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
- Data Link Ground Station
- Film Processing System
- Mission Planning Facility
- Air Imagery Interpretation Facilities
Reconnaissance System Drone CL-289

The System includes

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
- Data Link Ground Station
- Film Processing System
- Mission Planning Facility
- Air Imagery Interpretation Facilities
- HQ Facilities

Basic System
Reconnaissance System Drone CL-289

The System includes

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
- Data Link Ground Station
- Film Processing System
- Mission Planning Facility
- Air Imagery Interpretation Facilities
- HQ Facilities
- Storage Facilities
Reconnaissance System Drone CL-289

The System includes

• Drones including Sensors
• Launcher
• Homing Beacon
• Maintenance Equipment
• Transportation Equipment
• Data Link Ground Station
• Film Processing System
• Mission Planning Facility
• Air Imagery Interpretation Facilities
• HQ Facilities
• Storage Facilities
• Flight Surveillance Equipment
Reconnaissance System Drone CL-289

The System includes:

- Drones including Sensors
- Launcher
- Homing Beacon
- Maintenance Equipment
- Transportation Equipment
- Data Link Ground Station
- Film Processing System
- Mission Planning Facility
- Air Imagery Interpretation Facilities
- HQ Facilities
- Storage Facilities
- Flight Surveillance Equipment

Basic System

National Peripheral Systems
CL289 DRONE PARTNERSHIP

CL289 DRONE is an international weapon system developed and produced under a trilateral MOU.

For the utilization a two nation partnership is in existence since 1987.

**Complete** logistic support for the CL-289 DRONE basic system (common used equipment) by NAMSA.
NAMSA’s MISSION

The Programme Rockets / Missiles (LM) provides TAILOR MADE LOGISTIC SUPPORT Services for Weapon System Partnerships,

consisting of:

- ENGINEERING SUPPORT
- SUPPLY SUPPORT
- MAINTENANCE SUPPORT
SCOPE OF LOGISTIC SUPPORT

SUPPLY

- Procurement of Spares and Flight Consumerables
- Stockage and Brokerage Operations
- Mutual Emergency Support
- Management of Stocks (Central Stock, Stocks at Contractors)
- Redistribution of Stocks
- Production & Updating of Weapon System Stockage Lists
- Purification of Stocks
- Disposition - Disposal of Stocks
SCOPE OF LOGISTIC SUPPORT

MAINTENANCE

- Weapon System Repair & Overhaul
- Electronic & Mechanical Component Repair & Overhaul
- Weapon System Inspection
- Modification Application
- Calibration
- Production Warranty Repair
- On-site Support

performed as contractual maintenance at industry
SCOPE OF LOGISTIC SUPPORT

ENGINEERING

- Weapon System Engineering Support
- Configuration Management
- Software Management
- Technical Documentation Support
- Technical Data Package Support
- Failure Data Collection and Evaluation
- Modification/Retrofit Management
- Re-sourcing of Obsolete Sub-Assemblies
- Assistance to Customer & Contractors
- Technical Studies & Training
- EDP Supported Customer Information System

with support of industry
System Company Concept for PDS

GOVERNMENT LEVEL

FRANCE

GERMANY

EXECUTING LEVEL

WSPC

INDUSTRIAL LEVEL

NAMSA

SAGEM prime contractor for Optronic System

DORNIER System Company for PDS

RRD Z/I Autoflug

CMC Bristol WEIDELT

Note: (1) Subcontract by DORNIER
(2) Single source contract
(3) Co-operation agreement
SCOPE OF LOGISTIC SUPPORT

Configuration Management

All configuration changes
- hardware and software –
have to be agreed by the

Drone Configuration Control Board
(DCCB)

consisting of the partnership countries
and NAMSA as a non-voting member
Use in Operations

French and German Drone System were deployed in Bosnia and Macedonia. Missions: IFOR, SFOR, KFOR. About 600 flights were performed.

KFOR: 80% of the Air Imageries came from Drone

NAMSA supported with rapid procurement of spares, flight consumables and additional equipment as well as prioritised maintenance.
Other NAMSA Services

SHARE
BETTER UTILIZE EXISTING STOCK

COMMIT
BETTER MANAGE STOCK

PROFIT
BETTER PROVISION STOCK

Problem
Solutions

NAMSA brings nations together
Logistic Support for Common Used UAV's

General Statements

Utilisation takes longer than expected during procurement or development!

Utilisation is always more expensive than expected during procurement!
Logistic Support for Common Used UAV‘s

Do you have plenty of money for the utilisation?

Have your services the ability to support your UAV?

Do you have strong, guaranteed industrial support for the utilisation?

If you can answer these questions with „YES“

You don‘t need NAMSA
Logistic Support for Common Used UAV’s

But

What is the situation in the field of defense today?
• Decreasing defense budgets
• Limited resources
• Services decreasing by quantity
• Concentration in the services on core abilities
• Less capacity in the defence industry in Europe

Saving resources is more important than ever!
Logistic Support for Common Used UAVs

Common Used UAVs (examples)

- SPERWER/UGGLAN
- CRECERELLE
- Predator

Same family

Other Equipment:
Ground Stations
Data Link Systems
Sensors

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NAMSA LM-D

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Common Used UAVs (examples)

Hunter

Ground Stations
Data Link Systems
Sensors
Logistic Support for Common Used UAV‘s

What is the benefit of common logistics?

Common procurement, maintenance and services:
Higher quantity → better prices

Less manpower necessary!

If industry cannot support:
NAMSA has a workshop with electronics, optics and mechanical groups.
SUMMARY

For the
Reconnaissance System Drone CL-289
NAMSA is providing a complete logistic service with maintenance, supply and engineering support.

The Drone customers get support from a professional team and the savings from an active Weapon System Partnership.
Logistic Support for Common Used UAV’s

It does not matter which system YOU are using!

NAMSA can offer YOU the logistic support from a professional team too!