

INFORMATION PAPER

ON

C/EC-130 TACTICAL DATA LINK (TDL)

1. Background. ANG C-130 forces require the improved situational awareness (SA) capabilities a tactical data link provides during combat operations. C-130s need to be interoperable with other assets in theater and require enhanced SA for combat operations execution. The long term solution for theater level connectivity is the Joint Tactical Radio System (JTRS). The interim solution is the Enhanced Position Location Radio System (EPLRS).

2. Requirement. CAF MNS 315-92, Real Time Information in the Cockpit (RTIC). Global Information Grid CRD, JROCM 134-01, 30 Aug 01. AMC May020671 R&PC Requirement. Air Force Tactical Data Link Master Plan.

3. Impact If Not Funded. Real time information into and out of the cockpit (RTIC/RTOC) is critical to drop-zone identification and threat analysis while limiting voice emissions. Lack of RTIC through a data link creates high potential for mission failures, lost aircrew, and lost aircraft due to lack of situational awareness and airspace management in the battle area. ANG aircraft will be incompatible with the joint force packages, jeopardizing interoperability.

4. Units Impacted.

109AW	Schenectady, NY	139AW	St Joseph APT, MO	167AW	Martinsburg APT, WV
118AW	Nashville, TN	143AW	Quonset APT, RI	179AW	Mansfield APT, OH
124WG	Boise AT, ID	145AW	Charlotte IAP, NC	182AW	Peoria APT, IL
127WG	Selfridge ANGB, MI	146AW	Channel Is AGS, CA	189AW	Little Rock AFB, AR
130AW	Charleston, WV	152AW	Reno IAP, NV	193SOW	Harrisburg IAP, PA
133AW	Minneapolis, MN	153AW	Cheyenne MAP, WY	204ALS	Hickam AFB, HI
135AG	Baltimore, MD	156AW	San Juan IAP, PR	123AW	Louisville, KY
137AW	Oklahoma City, OK	166AW	Wilmington APT, DE	165AW	Savannah, GA

5. Contractor. For EPLRS: Raytheon, Fullerton, CA

6. Cost.

Units Required	Unit Cost	Program Cost
207 EPLRS (3010)	\$50K	\$10.35M
Integration/Testing (NRE) (3600)	\$200K	\$200K
		\$10.55M

INFORMATION PAPER

ON

HC/MC-130 TACTICAL DATA LINK (TDL)

1. Background. Combat Search and Rescue (CSAR) forces require the improved situational awareness (SA) capabilities a tactical data link provides during Combat Search and Rescue Task Force (CSARTF) operations to quickly locate and recover survivors and provide critical off-board data to C2 and protective fighter/attack aircraft. The HC-130 needs to be networked with other assets in theater, have enhanced SA for CSARTF missions, and reduced fratricide for CSAR forces. The current solution is the Enhanced Position Location Radio System (EPLRS) since it is used by other CSAR platforms (HH-60G, A-10, Block 30 F-16's). The long term solution will be the Joint Tactical Radio System (JTRS)

2. Requirement. CAF MNS 315-92, Real Time Information in the Cockpit (RTIC). Global Information Grid CRD, JROCM 134-01, 30 Aug 01. Air Force Tactical Data Link Master Plan.

3. Impact If Not Funded. Real time information into and out of the cockpit (RTIC/RTOC) is critical to Combat Search and Rescue (CSAR), drop-zone identification, and threat analysis while limiting voice emissions. Lack of RTIC through a data link creates high potential for mission failures, lost aircrew, and lost aircraft due to lack of situational awareness and airspace management in the battle area. ANG rescue aircraft will be incompatible with CSAR force packages.

4. Units Impacted.

106 RQW Gabreski, NY

129 RQW Moffett, CA

176 WG Kulis, AK

5. Contractor. Raytheon, Fort Wayne, IN

6. Cost.

Units Required	Unit Cost	Program Cost
EPLRS w/SADL - 18 Units (3010)	\$158K	\$2.84M
Integration/Testing (NRE) (3600)	-	\$840K
		\$3.68M

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ON

HH-60G TACTICAL DATA LINK (TDL)

1. Background. Combat Search and Rescue (CSAR) forces require the improved situational awareness (SA) capabilities that a TDL can provide during Combat Search and Rescue Task Force (CSARTF) operations. A TDL allows forces to effectively locate and recover survivors, and provides critical off-board data to C2 and protective fighter/attack aircraft. With TDL, the HH-60G will be interoperable with other air assets in theater, have enhanced SA for CSARTF missions, and will reduce fratricide for CSAR forces. The current optimal solution is the Enhanced Position Location Radio System with Situational Awareness Data Link (EPLRS/SADL) due to commonality with other rescue forces (HC-130, A-10, Pararescuemen and Block 30 F-16). The future solution will include the Joint Tactical Radio System.

2. Requirement. CAF MNS 315-92, Real-Time Information in the Cockpit (RTIC). Global Information Grid CRD, JROCM 134-01, 30 Aug 01. Air Force Tactical Data Link Master Plan.

3. Impact If Not Funded. Lack of data link creates high potential for mission failure, lost aircrew, and lost aircraft due to lack of situational awareness and airspace management in the battle area. ANG rescue aircraft will be incompatible with Air and Space Expeditionary CSAR Force packages, jeopardizing the interoperability of the Total Force. A TDL is essential for reactive, time-critical missions that require dynamic planning and maximum flexibility in a very fluid environment. Real time information into and out of the cockpit (RTIC/RTOC) is critical to Combat Search and Rescue (CSAR), drop-zone identification, and threat analysis while limiting voice emissions

4. Units Impacted.

106 RQW	Gabreski Field, NY
129 RQW	Moffett Federal Airfield, CA
176 WG	Kulis ANGB, AK

5. Contractor.

6. Cost.

Units Required	Unit Cost	Program Cost
18 EPLRS/SADL (3010)	\$115K	\$2.07M
Integration/Testing (3600)	-	\$930K
Total Program		\$3.00M