DEFENCE

Lockheed

designs
transport
ECM/

IRCM kit
MARIETTA

The United States Air Force is
testing an electronic counter-
measures/infrared counter-
measures (ECM/IRCM) kit
designed by Lockheed-
Georgia as a quick-fit modifi-
cation for the C-130 Hercules.
Called Satin, the system
consists of three off-the-shelf
ECM/IRCM systems and
special installation hardware.
Satin is designed so that the
host aircraft does not have to
be permanently modified, and
can be installed by a four-man
team in a single eight-hour
shift.

USAF transport crews have
long felt the need for their
aircraft to be more survivable,
and one study recommends
that the entire USAF Military
Airlift Command's fleet of
C-5s, C-141s, and C-130s be
fitted with defensive equip-
ment to counter infrared- or
radar-guided threats. But the
US Joint Electronic Warfare
Centre believes that Satin
might prove a lower-cost solu-
tion because the kits could be
pre-positioned where threats
are expected to be highest,
thus saving the cost of
modifying the entire fleet.

Threat-radar warning is
provided by an AN/ALR-69
radar warning receiver. This
gives an audio warning and a
visual indication of the
threat's bearing, allowing the
crew time to take evasive
action and dispense chaff or to
divert away from the threat.
An AN/ALQ-156 missile
warning radar can detect
incoming infrared-guided

missiles and automatically
trigger the flare dispenser at
the optimum time. Both chaff
and flares are ejected from an
AN/ALE-40 countermeasures
dispenser.
The key to the quick fit or
removal of the Satin system is
the extensive use of existing
supports and easily removable
skins and panels. For exam-

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mmmwm

Trials of Lockheed's Satin ECM/IRCM system on a USAF C-130 Hercules

pie, the ALE-40 dispenser is
built into specially modified
paratroop doors that replace
the standard C-130 paratroop
doors.
The aft antennae for the
ALR-69 RWR and ALQ-156
MWR are mounted in new
ramp closure skins that
replace the existing skins, and
the forward MWR antennae
are mounted on the existing
aircraft radar support struc-
tures under the nose radome.
The other RWR antennae are
mounted similarly on existing
panels. Controls and displays
for the MWR and RWR are
on the navigator's station.

McDonnell

Douglas to
train

Kuwaitis
BEDFORD

McDonnell Douglas Training
Systems (MDTS) has won a
$9-89 million US Navy con-
tract to establish a training
centre for the Kuwait Air
Force. MDTS is to develop
the pilot training curriculum,
equip the centre, and provide
a dozen advisers to assist in
the centre's initial operation.
The goal is to turn the com-
plete operation over to the
Kuwaitis within two years.

MDTS is developing the
US Navy training system for
the T-45A Goshawk. The
Kuwait Air Force has 12 of the
similar British Aerospace
Hawk Mk.64.

USAF tightens
Israeli

contracting
WASHINGTON D.C. ~

The US Air Force has
demanded that a special
clause be added to contracts
with Israeli defence indus-
tries, saying that the supplied
systems or components were
not manufactured in plants
located in the "occupied
territories".

According to sources in the
defence industries, USAF
officers in charge of acquisi-
tion programmes demanded
that the limiting clause be
added to all future contracts.
"We understood that the
unprecedented limitation on
where to manufacture our
products came from the
Pentagon," said a senior
Israeli official.

Some of the Israeli defence
manufacturers have plants on
the West Bank, and others
buy components from subcon-
tractors there. Until now the
USA only demanded that
Israel should not use US
Foreign Military Assistance
money for investments in
military installations on the
West Bank.
This is the first time that a
limitation has been put on the
defence industries as to where
they can manufacture prod-
ucts for the US military. Israel
is competing for many of the
RFPs issued by the USAF.
"The new limitation will
make things very complicated
for us in the future," said the
Israeli official.

TRACER

Westland has received a £1 • 2
million order from the West
German Navy to supply com-
posite rotor blades to equip its
Sea King helicopters. The
order could lead to the Ger-
man Navy following the UK
Services in a full-fleet blade
replacement programme.

Martin-Baker has received
two orders for its newly devel-
oped automatic inflation
device for Beaufort life-
jackets. The UK Ministry of
Defence has placed an initial
order for 600 units, and Spain
has ordered 80.

Atlantic Research has
successfully completed initial
testing of the rocket motor for
the US Army Tactical Missile
System (TACMS), which is
being developed by Vought.

Orbita Aerospace Systems
(Orbita Sistemas Aeroespa-
ciais S/A) has been formed in
Brazil to manufacture guided
weapons and missile systems,
sounding rockets, and launch-
ers for civilian applications.
The company has been
formed jointly by Embraer-
Empresa Brasileira de
Aeronautica and Engesa-
Engenheiros Espe-cializados.

France will soon supply the
nine remaining Dassault
Mirage 2000 fighter aircraft to
India. So far France has deliv-
ered 40 of the aircraft. A
French proposal to establish a
plant for the manufacture of
Mirage 2000s at Hindustan
Aeronautics has been turned
down by India.

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