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EXERCISE EXERCISE EXERCISE

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FERTILE RICE

041200ZZ AUG 01

FM SIM NORAD CHEYENNE MTN AS CO//CIC//

~~S E C R E T~~ RELEASABLE TO CAN/

MSGID/STARTEX INTEL SUMMARY//

NARR/

1. (~~S~~-REL CAN) USAMA BIN LADIN THREAT TO US. ACCORDING TO RELIABLE SOURCES OPERATIVES OF USMA BIN LADIN WILL ATTACK A HIGHLY VISABLE US GOVERNMENT TARGET WITHIN THE NEXT 24-36 HOURS. SPECIFICALLY, THE TERRORIST WILL UTILIZE AN UNMANNED AERIAL VEHICLE (UAV) BELIEVED TO BE THE RUSSIAN DEVELOPED COLIBRI MODIFIED TO BE LAUNCHED OFF A SHIP. THE SPECIFIC TARGET IS UNKNOWN. HOWEVER UNCONFIRMED REPORTS SUGGEST THE WASHINGTON DC AREA IS A LIKELY TARGET. BIN LADIN HAS REPORTEDLY ACQUIRED AT LEAST ONE AND POSSIBLY TWO COLIBRI UAVS.

2. (U) THE COLIBRI IS A RUSSIAN DESIGNED UAV PROTOTYPE. THE COLIBRI IS A PROPELLER-DRIVEN RPV DESIGNED TO PERFORM MILITARY AND CIVILIAN APPLICATIONS OF SURVEILLANCE, MONITORING, AND SAMPLING MISSIONS. IT HAS A SWEEP, LOW-MOUNTED, HIGH-ASPECT-RATIO WING, A T-TAIL, AND A PUSHER-TYPE PROPELLER. THE FUSELAGE IS WIDER THAN IT IS TALL, TO ENABLE EASY ACCESS TO THE MODULAR MISSION AVIONICS PACKAGES. RETRACTABLE LANDING GEAR ALLOWS FOR CONVENTIONAL TAKEOFF AND LANDING. COLIBRI IS INTENDED TO PERFORM A WIDE VARIETY OF MILITARY AND CIVILIAN MISSIONS. REPORTED MISSIONS INCLUDE RADIATION AND CHEMICAL PARTICLE DETECTION AND MONITORING, ATMOSPHERIC SAMPLING, FIRE DETECTION, PIPELINE SURVEY, LAND AND WATER CONTAMINATION DETECTION, HIGHWAY AND RAILWAY PATROLLING, LAND SURVEY, ICE SURVEY, FISHING RESEARCH, AND WATER TEMPERATURE MAPPING. IT MAY ALSO HAVE BEEN MODIFIED FOR A SHORT TAKEOFF CAPABILITY. THE COLIBRI HAS THE PAYLOAD OPTIONS OF TELEVISION AND IR SENSORS, RADIATION AND CHEMICAL DETECTORS, OR ATMOSPHERIC SAMPLING EQUIPMENT. THE COLIBRI WILL PROBABLY USE A FLIGHT PATH BASED ON NAVIGATION WAY POINTS PRESET PRIOR TO FLIGHT, BUT CAN BE MANUALLY CONTROLLED AT ANY TIME BY PERSONNEL IN THE GCS.

3. (~~S~~-REL CAN) ACCORDING TO RUSSIAN SOURCES THE PLANS FOR THE COLIBRI MAY HAVE BEEN ILLEGALLY PURCHASED FROM AVICS, LTD BY AGENTS OF BIN LADIN POSING AS IRANIAN AIR FORCE REPRESENTATIVES. REPORTEDLY THE FREIGHTER CARRYING THE UAV WILL ALSO BE TRANSPORTING A DOZEN SHOULDER FIRED SURFACE TO AIR MISSILES (TYPE UNKNOWN), UNSPECIFIED TYPES OF PLASTIC EXPLOSIVES, RPGS, AND AUTOMATIC WEAPONS. ~~SECRET RELCAN~~

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4. (U) THE AIRCRAFT REPORTEDLY TO BE USED IS EQUIPPED WITH A SOPHISTICATED ELECTRONIC JAMMING AND EASE-DROPPING ELECTRONIC COMMUNICATIONS AND RADAR MONITORING EQUIPMENT. A FLIR AND SMALL LLTV SYSTEM HAS ALSO BEEN ENCORPORATED. THE WEAPON PAYLOAD IS REPORTEDLY SOME TYPE OF FUEL AIR EXPLOSIVE (FAE) TO BE ACTIVATED WITH AN ALTIMETER DEVICE.

5. (S-REL CAN) THE SHIP CARRYING THE COLIBRI IS A FREIGHTER OF UNKNOWN ORIGIN WHICH LEFT A MIDDLE EASTERN PORT ABOUT TWO WEEKS AGO. THE SHIP WAS TO RONDEZVOUS WITH AN UNSPECIFIED PERSON/AGENT OFF THE NORFOLK, VA COAST ON 4 AUGUST. IT IS BELIEVED THIS LINK UP WILL PROVIDE THE FINAL TARGETING INFORMATION TO BE PREPROGRAMMED INTO THE UAV. DUE TO HEAVY MERCHANT SHIPPING INTO THIS AREA COAST GUARD AND US NAVY ASSETS HAVE HAD DIFFICULTY IDENTIFYING THE POTENTIAL FREIGHTER.

6. (U) COLIBRI SPECIFICATIONS:

A. (U) DIMENSIONS

Aircraft
Length 4.25 m
Height 1.70 m

Fuselage
Length 4.25 m
Diameter Unknown

Wing
Span 5.90 m
Area Unknown

Aspect ratio 1.75
Sweepback, leading edge 18 deg
Dihedral Unknown

B. (U) PROPULSION

No. of propellers 1
No. of blades 2
Diameter Unknown
Pitch Unknown
Configuration Pusher-prop
Performance
Power 55.9 kW (75 hp)
Brake specific fuel consumption Unknown

C. (U) WEIGHTS

Airframe
Empty 138 kg
Maximum takeoff 280 kg
Maximum payload 70 kg
Maximum fuel 72 kg

D. (U) AVIONICS

Aircraft

Communications

Data link Unknown

Navigation

Computer Unknown

Doppler radar Unknown

Radar altimeter Unknown

Autopilot Unknown

Radio navigation system Unknown

Payload

Reconnaissance

Daylight-only TV Unknown

IR sensor Unknown

Radiation detection Unknown

Chemical detection Unknown

E. (U) PERFORMANCE

Takeoff conditions

Fuel (kg) 72

Payload (kg) 70

Gross takeoff weight (kg) 280

Wing loading (kg/m²) Unknown

Mission data

Range Maximum (preprogrammed) (NM) 700

Operational radius (w/data link limited to LOS)
(NM) 100

Mission time

Time on station (hr) Unknown

Maximum endurance (hr) 8

Ceilings

Operational (m) 50-3,500

Service (m) 3,500

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Speed

Maximum (kn) 135
Cruise (kn) Unknown
Loiter (kn) Unknown
Stall (kn) Unknown
Sea level (kn) Unknown

Rate of climb

Sea level (m/sec) Unknown

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