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ANSEL-CB

14 APR 1966

Command Reading File

Brigadier General Walter E. Lotz, Jr.
Assistant Chief of Staff, J-6
Headquarters
U. S. Military Assistance Command, Vietnam
APO San Francisco 96243

Dear General Lotz:

The Marine Corps has recently decided to buy a sufficient number of Radar Set AN/PPS-6 to equip its units (description inclosed - Inclosure 1). We have been embarrassed that the Army cannot make up its mind to buy some of these sets for use in Vietnam. I have just finished reviewing plans for the development of Radar Set AN/TPS-45, a new, small, lightweight (10 pounds) set which can be carried and operated by one man. It will have a greatly improved capability over the AN/PPS-6; however, under the present plan, it will not be ready for the field until about 1972. In the interim, the AN/PPS-6 (35 pounds) will be the only comparable small, lightweight set available.

In order to buy the AN/PPS-6, we must have a statement of requirement from Vietnam. A requirement for such a radar set was indicated to a Joint Team headed by Colonel Paul A. Troup, Jr., Chief of the Radar-Combat Surveillance Commodity Management Office, U. S. Army Electronics Command, during a visit to Vietnam 19-28 July 1965. The team's report (Joint R&D Assistance Team for Combat Surveillance, Reconnaissance, Target Acquisition and Position Fixing, ANSEL-CB, 19 August 1965, subject: Report of Visit to Vietnam, 19-28 July 1965) was submitted to the Commander, U. S. Military Assistance Command, Vietnam, APO U. S. Forces 96309, with a recommendation that the proposed requirements be staffed and, where deemed appropriate, approved and forwarded for action. I would appreciate it if you would locate the report and, if possible, generate a requirement to be forwarded to Department of Army.

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Brigadier General Walter E. Lotz, Jr.

I have just heard that the Radar Set AN/PPS-5 (95 pounds) has arrived in Vietnam and that it is being received with enthusiasm. It is a portable set which is broken down into three one-man loads for transport. The AN/PPS-6 would be easier to use in the forward areas and move the radar coverage capability further into the combat zone. We will appreciate anything you can do to generate an official request for this set.

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Best personal regards.

Sincerely,

SIGNED

1 Incl
as

PAUL A. FEYEREISEN
Brigadier General, USA
Deputy Commanding General
for Plans and Programs

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COMBAT SURVEILLANCE, NIGHT VISION, & TARGET ACQUISITION
COMMODITY MANAGEMENT OFFICE
U. S. ARMY ELECTRONICS COMMAND
FORT MONMOUTH, NEW JERSEY

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FACT SHEET

AN/PPS-6 (XE-6)

1. Nomenclature - Radar Set.

2. Description - Small, lightweight, ground-to-ground surveillance radar used to detect moving personnel and vehicles in the forward battle area under day or night and virtually all-weather conditions. Can be transported and operated by one man. Weighs approximately 35 pounds. Powered by self-contained rechargeable battery which provides up to 12 hours operation.

3. Performance:

Range - 50 to 3,000 meters.

Accuracy - ± 25 meters in range, ± 10 mils in azimuth, ± 15 mils in elevation.

Resolution - 50 meters in range, 360 meters in azimuth with target at 3000 meters range, 120 meters at 1000 meters range.

Endurance - Approximately 12 hours on one battery charge, depending on use and temperature.

Subclutter visibility - Approximately 40 db for targets having radial velocities between 1 and 35 miles per hour relative to the radar set.

Power output - 100 watts peak, 60 milliwatts minimum.

Sensitivity - Can detect a 1 square meter target (walking man) at 1500 meters, 1/4-ton vehicle at 3000 meters.

Sector Scan - ± 300 mils in azimuth, 315 or 630 meters in range.

Elevation coverage - $+400$ to -600 mils.

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