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**ORGANISATION DU TRAITÉ DE L'ATLANTIQUE NORD**  
**NORTH ATLANTIC TREATY ORGANISATION**

PLACE DU MARÉCHAL DE LATTRE DE TASSIGNY - PARIS (XVI<sup>e</sup>) - TEL. KLE. 50-20

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BUREAU DU REPRÉSENTANT  
DU GROUPE PERMANENT

OFFICE OF THE STANDING GROUP  
REPRESENTATIVE

LOM 143/64

24th April, 1964

MEMORANDUM FOR : Secretary, Standing Group

SUBJECT : Meeting of Working Group on Simplex Radio  
Equipment for the Combat Zone (AC/220(WG/1))

References : (a) AC/220(WG/1)A/2  
(b) SGM-542-63 -  
(c) AC/220-D/8 (Revised)  
(d) STASEC 9507 -

1. Meeting of the subject Group was held on the 6-10th April 1964. Belgium, Canada, Denmark, France, Germany, Netherlands and UK were represented. US was also represented as observer.

2. UNDER AGENDA ITEM III

The German delegation gave a presentation on HF manpacked portable Radio sets. (See enclosure 1).

3. UNDER AGENDA ITEM IV (a) - NATO BASIC MILITARY REQUIREMENTS FOR A COMBAT ZONE COMMUNICATION SYSTEM

The Group noted ref (b) (NBMR 35) and considerable discussion took place whether or not further specific NBMRs were required or whether the Group could draft operational characteristics directly from NBMR-35 for Radio sets within its field of interest.

It should be noted that if Group could go directly from NBMR 35 to draft the operational characteristics US will change its membership from observer to full member.

It will be appreciated if SGN could give guidance on this subject prior the main AC/220 Group meeting in June 1964.

4. UNDER AGENDA ITEM IV (d) - NBMR FOR HF COMBAT AREA RADIO SETS

The Group considered the comments received on ref (c) and made a new draft which will be issued on AC/220-D/8 (2nd Revised) for consideration and approval of main Group. The submission of the document to SGN will depend on the guidance from SGN which is referred to in para 3 above. (See enclosure 2).

5. UNDER AGENDA ITEM IV (e) - NBMR FOR LONG-RANGE HF PATROL RADIO SET

The Group drafted prepared paragraphs for an NBMR on the subject and it will be submitted to the main AC/220 Group for its consideration. (See enclosure 3).

6. UNDER AGENDA ITEM V - DRAFT OPERATIONAL CHARACTERISTICS control N° 0459

In anticipation of NBMRs approval the Group prepared draft operational characteristics for VHF sets and HF sets and these drafts will be circulated for the comments by the subject Group at its next meeting.

**ACTION COPY**

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7. UNDER AGENDA ITEM VIII - BASIC TECHNICAL CHARACTERISTICS FOR SINGLE CHANNEL TELEGRAPHY COMMUNICATIONS BETWEEN 1.5 and 30 mc/s WITH WIDE FREQUENCY SHIFT IN MOBILE SERVICES

SGREP made a statement along the lines of ref (d) and no discussions took place.

FOR THE STANDING GROUP REPRESENTATIVE

*G. H. Shorland  
Col.*

G. H. SHORLAND,  
Colonel.

ENCLOSURES:

- (1) Portable HF Radio Set KIFuG 3-10 (1 English Copy)  
Poste radiotelephonique Portatif 26-70 MHz (SEM 35)  
(1 French Copy)
- (2) Report of Sub-Group on Agenda Item IV(d) .
- (3) Proposed Paragraphs for an NBMR for a HF Patrol Radio Set (Long Range) ( - )

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15 June 72  
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REPORT OF SUB-GROUP ON AGENDA ITEM IV(d)

1. The Sub-Group, consisting of Representatives from Belgium, Denmark, France, Denmark, Germany, the Netherlands and the United Kingdom, examined the comments received on document AC/220-D/8 (Revised).
2. It was agreed that:
  - (a) Paragraph 3 should be amended to read:

"The sets shall be designed within the frequency range 1.5 to 30 mc/s as an integrated family. They must be capable of inter-operating with each other. The whole family....."
  - (b) The comments from Greece were discussed and noted. The Sub-Group felt that the family of sets as defined in NBMR is sufficiently large to meet all user requirements. These comments would be further examined when the Operational Characteristics are going to be prepared.
3. There was discussion about the meaning of "integrated family". It is defined as a family of radio sets in which the sub-assemblies, component parts, audio gear and aerials are, wherever practicable, common. The term "sub-assembly" might include a complete equipment, e.g. a small set in an amplifier.
4. Add a new paragraph 4:

"The equipment must be weather-proof, water-proof and shock-proof to the greatest extent possible, and require minimum field maintenance. It must be capable of functioning in an ECM environment."

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ENCLOSURE 3 OF LOM 143/64

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AC/220(WG/1)D/3(Revised)

## PROPOSED PARAGRAPHS FOR AN NEMR FOR A HF PATROL RADIO SET (LONG-RANGE)

### TASK

1. To provide long range radio equipment which will meet the requirements for communication between special isolated units and their distant base.

### CAPABILITY

2. The equipment is to provide simplex communications between long range patrols and their central radio centres in the Combat Zone. If possible this equipment should be compatible with the family of HF Combat Area Radio Set (1)

3. The equipment shall be portable. The weight and dimensions shall be such that it can be carried by an individual, during combat and parachuting, without detriment to his operational efficiency. The set should provide a reliable telegraphy link over distances up to 300 km under all circumstances in the Central European Area.

4. The equipment must be weather-proof, water-proof and shockproof to the greatest extent possible, and require the minimum field maintenance. It must be capable of functioning in an ECM environment.

5. The power source shall be such as to provide a very extensive and, if possible, unlimited operating time independent from logistic support

### TYPES OF TRANSMISSION

6. The types of transmission to be provided shall include short burst telegraphy transmission and normal telephony and telegraphy transmission and reception.

### GENERAL

7. The set is to be brought into service in the armed forces under NATO command as from 1970.

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(1) AC/220-D/8(2nd Revise)

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