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NFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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	SomEn	<u> </u>	
COUNTRY	East Germany/USSR	REPORT	25X1
SUBJECT	Specifications for Launch Re		<u> </u>
	Direction Finder Ordered fro Germany by the USSR	ma East NO. PAGES 1	
	• •	REQUIREMENT NO. RD	
DATE OF INFO.		REFERENCES	25 X 1
PLACE & DATE ACQ.			25/1
	SOURCE EVALUATIONS ARE DEFI	NITIVE. APPRAISAL OF CONTENT IS TENTATIVE.	
	mechanical, for a launch rac Germany. (4 pages in Englis	technical specifications, both electrical and direction finder ordered by the USSR from East sh)	25 X 1
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STATE	X ARMY	X NAVY	3C AIR	X FBI	AEC		
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PROBLICAL SPECIFICATIONS

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A LAURCH RADIO DERECTION PURDER

L. PREPOSE

SPEDIT

The launch radio direction finder is a mavigation apparatus and it serves to determine one's position. It can be employed either on vessels (seeing beats and sering meter boats), or on first land. The direction finder is also used as a part of the equipment of sea vessels of the first and second categories in the lat and 2nd group in account with the Register of the U, S, S, R, rule 14, values I, section IV, paras 67 and 68 (expert), and also for the maticular

II. Postatori Bresttlenikum

- the Klastwick Date
- (†) The launch radio direction finder should permit to determine the direction of transmitters operating at dispasons of between 250 and 545 kiloherts with Aq, Aq, A3 and B working ratios.
- (2) The scale of the direction finder receiver should be graduated in kilcherts; the dispassons of frequencies between 285 and 325 kilcherts and between 140 and 512 kilcherts should be grammentively marked in different colours.
- (3) The general deviation between the reception frequency and the established frequency in relation with the scale's graduation should not exceed at any point of the dispason - 0.25 per cent of the specified frequency.
- (4) The product of the minimum width in degrees by the field intensity should not exceed 100 (?) within the entire reception disposes (i.e. for to of the width minimum a field intensity or 100 microvolt in required, for 20 50 microvolt).

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(5) The maximum extent of the apparatus' error ashould not exceed to



- (5) The relationship of the side determination should be of 114.
- (7) The attenuation of the specular frequency and also the dielectric constant of the intermediate frequency should reach the magnitude of 40 decibel.
- (8) The sensibility with the reception (Aq), in relation to the signal/ noise at 10 decibel, should represent approximately 20 microvolt.
- (9) The width of the intermediate frequency h band should correspond to _ 2 kiloherts.
- (10) The receiver should let pass sound frequencies within the dispason of between 300 and 200 horts; the magnitude of diffraction of discharge tensions in relation to 800 horts should not exceed ± 5 decibel.
- (11) The intensification of tension of the direction finder's receiver should be regulated manually to a maximum of 40 decibel.
- (12) The discharge (outlet) of the receiver should be designed for branching of earphones with a continuous current 4,000 chm resistance. It should be possible to branch simultaneously two pairs of earphones. The minimum discharge especity is of 10 microwell.
- (\$5) The time required for the alteration of frequency should not exceed 5 seconds.
- (%) The receiver may be equipped with a measuring apparatus, which is used to shook the intensity of feeding and the minimum of direction finding.
- (†5) Feeding of the launch radio direction finder should be ensured, either by means of small dry batteries, or waf a hand generator.
- (†6) A two-hour minimum of an uninterrupted emploitation should be guaranteel.

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b. Mochanical Requirements

- (†) The transmission between the tuning handle and the axle of a transportable condenser should be at least, 5: 1.
- (2) The launch radio direction finder should be placed into a hermetically-scaled container with, either two handles, or shoulder straps to enable its easy transportion to the launch. The container should be pointed yellow from outside.
- (3) Once alonely the launch radio direction finder should be able to beer a blow without any damage, when thrown into the water from a height of 15 metyes and alon to pessees a positive expectity of floating.
- (4) The full weight of the lammeh radio direction funder should not exceed 12 kilograms.
- (5) All parts of the radio direction finder should be manufactured out of a non-magnetic material.
- (4) A free acceptability to inner parts and lamps of the receiver
- (7) In the technical construction, specifications for choking eachs and transformers the regulations of processing should be observed in accord with the Section I, and for the valves with the Section VII. (Sf. instructions for the additional finishing of valves, choking coils and transformers). Publishers: IRS.
- (3) Belting and mut junctions up to 5 mm, may be scaled by varmish against self-opening only in the case, when the parts to be joined are not to be submitted to a strong vibration and when these bolting junctions represent mechanical fixing of accessory pieces. For other complings the 198 paras of the Soviet Maval Register is valid.



(9) For the realization of the launch direction finder, we beg
to comply with the meaning of the decrees of the Monitor of
Lemm 98 of the HER of the 3mb of September 1953 (Decree on
the installation of radio equipment on the sea vessels and on
the observance of the naval signal service (decree on the naval
radio) of the 3m2.55, rule 11, volume II., Section III, parage
161 to 53h and Section XV, parage 829 and 856.

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