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6-050

The

13 December 1960

MEMORANDUM FOR MR. REED MAYO, NAVAL RESEARCH LABORATORY

Subj: Estimated power of certain Soviet radars

- 1. Reference our recent conversation, I have located several sources of estimated power of certain Soviet radars. These values differ somewhat, as you can see, so I have included all of them for your own choice of selection.
- 2. Following are the radars of most probable interest:

	(Landbased)
	(1) Air Force states frequency is 572-603 mc/s. (2) ONI states 572-602 mc/s. (3) CIA states 565-605 mc/s. (4) Air Force estimates 350 KW. (5) British estimate 500 KW - 1 MW. (6) ONI estimates 500-600 KW (nominal). (7) CIA gives no estimate of power.
√ 9,	(Soviet) (Shipborne)
	(1) ONI states frequency is 810-850 mg/s (Center 835). (2) NSA states 815-845 mg/s. (3) British state 800-875 mg/s. (4) CIA states 800-875 mg/s. (5) Air Force 815-850 mg/s. (6) Air Force estimates power as like that of (7) ONI estimates possibly 1 MW (nominal). (8) CIA gives no estimate of power.
La-	(Soviet) (Landbased)
	(1) ONI states frequency is 560-575 mc/s (Center 570). (2) Air Force states 560-575 mc/s. 2700-3100 (3) CIA states 560-575 mc/s. (4) Air Force estimates power as 1 MW. (5) British estimate power as 1-2 MW. (6) ONI estimates power as 1 MW (at least). (7) CIA estimates power as 2 MW.
d.	(Recently seen in North Fleet on destroyer - SKORYY #528)
**********	(1) ONI states probably a larger reflector for radar. (2) ONI estimates frequency like (around 845 mc/s). (3) ONI estimates power as probably (at least) 500 KW.
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, e,	(Soviet) (Landbased)			
	(1) Air Force states frequency 830-890 mc/s. (2) British state 815-850 mc/s. (3) NSA states 815-845 mc/s (and possibly 900 at (4) ONI states \$15-850 mc/s (Center 335, and al (5) CIA states 800-900 mc/s. (6) Air Force estimates power as 500-1000 kW. (7) CIA estimates power as 250-500 kW.			5).
f .	(Soviet)(Landbased)			
	 (1) NSA states frequency as 570 mc/s. (2) ONI states 570 mc/s. (3) CIA states 560-575 mc/s. (4) Air Force estimates power as like that of (5) NSA estimates power as like that of (6) CIA estimates power as 2 MW. 		2 700	· \$2
g.	(Soviet) (Landbased)			•
	(1) NSA states frequency as 570 mc/s. (2) CIA states (questionable RF) 560-575 mc/s. (3) CIA estimates power as 2 MW. (4) NSA estimates power as being modified (5) Air Force estimates power as being modified		2700-71	Ø 0
h.	(Soviet) (Landbased)			
	(1) NSA states frequency as 570 mc/s. (2) Air Force states frequency as 570 mc/s. (3) ONI states frequency as 600-800 mc/s. (4) CIA states (questionable RF) 560-575 mc/s. (5) CIA estimates power as 2 MW. (6) Air Force estimates power as 2 MW. (7) NSA states similar to	2700	-3190 A	i=
i.	(Soviet) (Landbased)			
	(1) CIA states (questionable RF) 560-575 mc/s. (2) Air Force gives no L-band capability. (3) British gives no L-band capability.	S 8	care to 19	

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(5) CIA estimates power as 1-2 MW.

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(Soviet) (Landbased) J.

- (1) CIA states (questionable RF) 560-578 mc/s. 50 Fou.
- (2) Air Force gives no L-band capability.
 (3) British give no L-band capability.
- (4) CIA estimates power as 1-2 Mw.
- 3. While the power quoted is for the radar, there appears to be some question if the value given is applicable to the L-band capability.
- 4. I hope this will be of some assistance to you.

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