

M/EB 346/62
18 December 1962
Copy 3 of 5

MEMORANDUM FOR: Chief, Defensive Systems Division, OSI

ATTENTION:

FROM: Chief, CIA/PID (NPIC)

SUBJECT: FRUITSET Radar Associated with SAM Sites in Cuba

REFERENCE: Requirement OSI/269/62

1. This memorandum is in answer to your requirement dated 16 November 1962 concerning the type of FRUITSET radar that is associated with the SAM launch sites now deployed in Cuba.

2. Because of the variance of photo quality of the twenty four known FRUITSET radars in Cuba, it was not possible at this time to examine in detail each radar to note any similarities or differences that might exist. The FRUITSET radars that were observed at sites near Santa Lucia, Senado, and Chaparra are similar and have been singled out for study in this report because photo quality did permit detail analysis and comparison.

3. Although the photo quality and scale of the material used in this analysis was good, still it could not overcome some of the detail concealed in shaded and "hidden" areas, hence the degree of reliability drops considerably in some portions of the attached drawings. Certain areas of the drawings have been completed based on extrapolation. The portions of the FRUITSET that are in the "dead zone" are as follows:

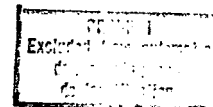
- a. The front and sides of the horizontal trough
- b. Lower half of the vertical trough
- c. Detail on the reflector and supporting mechanisms of the parabolic dish
- d. Most of the detail of the carriage and the box or van portion of the set

4. Methodology - The line drawings of the radars were prepared through the use of enlargements supplemented with the aid of stereo-viewing, then the drawings were submitted to the Technical Intelligence Division (TID) for mensuration.

Points for consideration - Most of the mensuration equipment that would normally be used in a job of this nature was not available to the TID personnel due to reasons beyond their control. As you know NPIC is due to move to a new

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location shortly, hence most of the equipment is in the process of being dismantled and crated. As a result the T.I. analyst had to improvise by using equipment that is available. Although the T.I. analyst has provided data he feels confident is correct, nevertheless, the degree of confidence would certainly be increased had he used some of the other equipment to further corroborate his findings. Finally the enclosed drawings were prepared by the assigned P.I. analyst and have not been worked on by any graphics analysts at NPIC.

5. This FRUITSET radar is similar in many respects to the type "B" FRUITSET This similarity is based on a comparison made with the enclosed line drawings and those included in the Army study (SPIR 254) FRUITSET Radars prepared at the U.S. Army Photo Interpretation Center, Fort Holabird, Md.

6. The FRUITSET configuration (Enclosures 1 through 8) and all mensural data was scaled from the following photography:

7. Enclosure 9 a copy of Navy report 635/62-8 is enclosed for your information.

8. The photo analyst on this project is and he may be contacted on extension should you have any further questions concerning this project.

Enclosures:

- 1 - Two (2) photographs
(CIA/PID/MEB-P-201/62 and P-202/62)
- 2 - Six (6) drawings
(CIA/PID/MEB-P-203/62 thru P-208/62)
- 3 - Navy Report (NPIC 635/62-8)

GROUP 1
Excluded from automatic
downgrading and
declassification