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STAFF COMMUNICATIONS DIVISION

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SECRET FROM NITA-S X-442

DA PASS TO ACSI/DA. CSAF FOR AFNIE. DIRNSA FOR A41.
CIA FOR OSI/BMSD, FMSAC AND MIL DIV OCI DEPT OF STATE
FOR HOWARD WIEDEMAN, INR. DIA FOR DIAST-C AND DIAAP-1C
ID (SPACE) R.E. SCHMALTZ. ONI FOR OP 922Y. SAC FOR
DISC. 29 NORAD RGN FOR NORAD ALCOP. FTD FOR TD-ARM
AND AOS. 16AF FOR DI AFCRL FOR CRFR. THIS IS NORAD
FRAGMENTARY REPORT NR 225-64. REFERENCE SICR D-
ACQ-06470.

SUBJ: SPUTNIK 8 (INTERNATIONAL DESIGNATION 1964-80,
SPADATS OBJECT 947, AND ASSOCIATED OBJECTS). REFERENCE
NORAD FRAGMENTARY REPORT NR. 224-64. ON 9 DECEMBER 1964
THE DIYARBAKICRADAR FACILITY DETECTED AN OBJECT PASSING
THROUGH ITS BEAMS FROM APPROXIMATELY 23032 TO 23062 AT
RANGES OF 783 TO 998 NAUTICAL MILES. THIS RADAR DATA
INDICATED THAT THSSOVIETS HAD LAUNCHED A NEW EARTH
SATELLITE VEHICLE FROM THE KAPUSTIN YAR MISSILE TEST
RANGE AT APPROXIMATELY 23012. ACHIEVEMENT OF EARTH
ORBIT WAS CONFIRMED BY SUBSEQUENT RADAR DETECTIONS BY
DIYARBAKIR ON REVOLUTION ONE, BY THE TRINIDAD AND
MOORESTOWN RADARS ON REVOLUTION TWO, AND BY ELINT

DA IN 487547

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SECRET

RG 319

DM-3 47-R3

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MESSAGE

INTERCEPTS OBTAINED BY U. S. MONITORING FACILITIES.

THIS NEW SOVIET LAUNCH HAS BEEN DESIGNATED SPUTNIK 84,
AND MAYY FOBJECT NUMBER 947.FRM

THE PRELIMINARY RADAR DATA SPADATS HAS COMPUTED INITIAL
ORBITAL PARAMETERS. THESE PREDICTIONS ARE PRODUCED
FROM MINIMUM OBSERVATIONAL DATA, AND MUST BE CONSIDERED
AS SUBJECT TO LATER REFINEMENT.

INCLINATION: 48.70 DEGREES

PERIO: 92.49 MINUTES

APOGEE: 546 KILOMETERS

PERIGEE: 254 KILOMETERS

THE RADAR DATA HAS INDICATED THAT AT LEAST THREE OBJECTS
ARE IN THE SPUTNIK ORBIT. THESE HAVE BEEN TENTATIVELY
IDENTIFIED AS THE PAYLOAD, THE INJECTION STAGE ROCKET
BODY, AND A FRAGMENT RESPECTIVELY. PRELIMINARY RADAR
SIGNATURE ANALYSIS SUGGESTS THAT THE PAYLOAD IS STABILIZED,
WHILE THE ROCKET BODY APPEARS AS A TUMBLING CYLINDER
OF DIMENSIONS POSSIBLY AROUND 1 TO 17 FEET IN LENGTH
AND 6 TO 7 FEET IN DIAMETER. IN ADDITION THERE IS A
SMALL RAPIDLY TUMBLING FRAGMENT WHICH APPEARS AS A
PLATE-LIKE OBJECT AROUND A FOOT OR LESS IN GROSS DIAMETER.
THE VALIDITY OF THESE DIMENSIONS IS UNCERTAIN. THE
INFORMATION PRESENTLY AVAILABLE IS VERY LIMITED, BUT
THERE IS AT PRESENT NO EVIDENCE TO INDICATE THAT THE
MISSION OF THIS NEW EARTH SATELLITE IS OTHER THAN

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MESSAGE

SCIENTIFIC IN NATURE, AND IT IS TENTATIVELY SUGGESTED THAT SPUTNIK 84 IS ANOTHER IN THE KAPUSTIN YJ SERIES OF SOVIET SCIENTIFIC SATELLITES. THE LAUNCH TIME OF APPROXIMATELY 2301Z IS UNUSUAL AS COMPARED TO PREVIOUS SATELLITE LAUNCHES FROM KAPUSTIN YAR, BUT IT IS NOT FELT THAT LAUNCH TIME IS A CONSTRAINING FACTOR FOR THE SCIENTIFIC VEHICLES LAUNCHED FROM THE KAPUSTIN YAR MISSILE TEST RANGE. THIS LAUNCH UTILIZED FG SPUTNIK 84 IS POSSIBLY THE RESULT OF OPERATIONAL CONSIDERATIONS SUCH AS RANGE SCHEDULING. AS OF 0600Z ON 10 DECEMBER 1964, THE SOVIETS HAVENOT YET ANNOUNCED THE NEW LAUNCH IN THE OPEN PRESS. FURTHER INFORMATION WILL BE FURNISHED AS AVAILABLE. GP-1

BT

NOTE: ADV CY SENT TO ACS1 AT 100743Z DEC 64.

ACTION: ACS1
DISTR: DCSOPS, ACSFOR, CC-E, SECRET
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