



~~TOP SECRET~~

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DATE

TO :

FROM :

ACTION:

INFO :

Declassified and Released by the NRO
In Accordance with E. O. 12958
on NOV 26 1997

[REDACTED]

[REDACTED]

0191-10

TO

INFO

CITE

~~TOP SECRET~~ 162203Z CITE [REDACTED]

PRIORITY [REDACTED] INFO PRIORITY [REDACTED]

[REDACTED]

REF A [REDACTED]

B [REDACTED]

C [REDACTED]

1043

1. THE OFF-SET ANOMALY WHICH OCCURRED AS DESCRIBED IN REFERENCE C WAS THE RESULT OF THE DISPERSION IN PERIGEE LOCATION WHICH OCCURRED ON MISSION 1043. IT SHOULD BE NOTED THAT, UPON COMPLETION OF ALL DMU ROCKET FIRINGS, THE LOCATION OF PERIGEE WAS APPROXIMATELY FIFTEEN DEGREES AHEAD IN ORBIT (SOUTH) OF NOMINAL.

2. A LARGE DISPERSION IN INITIAL PERIGEE LOCATION, EVEN THOUGH OTHER PARAMETERS MAY BE NOMINAL, RESULTS IN A SIGNIFICANT CHANGE IN THE TIME BETWEEN THE ASCENDING NODE AND THE TARGET LATITUDE. THIS CHANGE IS NOT CONSTANT OVER THE ORBIT OR EVEN OVER A SMALL SEGMENT OF THE ORBIT. FOR THE DISPERSION OF FIFTEEN DEGREES ON MISSION 1043 THE VARIATION IN CHANGE BETWEEN 70 DEGREES NORTH LATITUDE DESCENDING AND 0 DEGREES LATITUDE DESCENDING WAS 8 SECONDS, INITIALLY (8 SECOND

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GROUP 1
EXCLUDED FROM AUTO-
MATIC DOWNGRADING
AND DECLASSIFICATION

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BIAS REQUIRED AT 70 AND 16 SECONDS AT 0).

3. WHILE THE H-TIMER MAY BE BIASED FOR A MID-LATITUDE IT WAS INITIALLY FELT THAT THE DISPARITY BETWEEN BIAS REQUIREMENTS AT 70 DEGREES NORTH AND 0 DEGREES WAS SO WIDE THAT IT WOULD BE DESIRABLE TO ALLOW [REDACTED] TO BIAS ON AN INDIVIDUAL OPERATION BASIS. THIS CONCEPT WAS REPLACED IN ACCORDANCE WITH THE REQUEST OF REFERENCE C WITH A CONSTANT BIAS OF 13 SECONDS.

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TOR: 162236Z AUG 67

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