

~~SPECIAL HANDLING~~

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62 253

SPECIAL PURPOSE PACKAGES FLOWN

| PACKAGE                     | FREQ BAND (MCS)                        | VEHICLE | DATE LAUNCHED | REMARKS              |
|-----------------------------|--|---------|---------------|----------------------|
| E-1 SOCTOP                  | 2500 - 3200                            | 1057    | 10 Aug 60     |                      |
| E-2 SOCTOP                  | 300 - 900<br>2500 - 3200               | 1058    | 13 Sep 60     |                      |
| E-3 SOCTOP                  | 300 - 900<br>1000 - 6000               | 1061    | 26 Oct 60     | No Agency separation |
| E-4 SOCTOP                  | 300 - 900                              | 1062    | 12 Nov 60     |                      |
| E-5 SOCTOP                  | 300 - 900<br>1000 - 6000               | 1105    | 30 Mar 61     | No orbit             |
| E-6 SOCTOP<br>E-7 TAKI      | 1000 - 6000<br>160 - 175<br>100 - 1000 | 1107    | 16 Jun 61     |                      |
| E-8 SOCTOP<br>E-9 WILD BILL | 1000 - 6000<br>40 - 120                | 1109    | 7 Jul 61      |                      |
| E-10 SOCTOP<br>E-11 TAKI    | 1000 - 6000<br>160 - 175<br>100 - 1000 | 1111    | 4 Aug 61      | No orbit             |
| E-12 TEXAS PINT             | 100 - 150                              | 1112    | 30 Aug 61     |                      |
| E-13 TOPSOC                 | 400 - 800<br>800 - 1600                | 1113    | 12 Sep 61     |                      |
| E-14 TOPSOC                 | 400 - 800<br>800 - 1600                | 1114    | 18 Sep 61     |                      |
| E-15 TOPSOC                 | 400 - 800<br>800 - 1600                | 1115    | 13 Oct 61     |                      |

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~~REF ID: A65107~~  
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~~DATE 12-10-2014 BY SPK~~  
  
SPECIAL PURPOSE PACKAGES FLOW

| PACKAGE           | FREQ BAND (MCS) | VEHICLE | DATE LAUNCHED | REMARKS   |
|-------------------|-----------------|---------|---------------|-----------|
| E-16 TOPSOC       | 1117 "          |         | 5 Nov 61      |           |
| E-17 GRAPE JUICE  | 1119 "          |         | 12 Dec 61     |           |
| E-18 S.T. LOW     | 2203 "          |         | 21 Dec 61     |           |
| E-19 TAKI         | 1120 "          |         | 13 Jan 62     | No orbit. |
| E-20 WILD BILL    | 1123 "          |         | 27 Feb 62     |           |
| E-21 ST. LOW      | 2204 "          |         | 7 Mar 62      |           |
| E-22 GINGER JUICE | 1124            |         | 17 April 62   |           |
| E-23 TAXI         | 1125            |         | 19 April 62   |           |
| E-24 WEB TEASER   | M 34            |         | 26 July 62    |           |
| E-25 PUMPKIN JACK | 1126            |         | 17 Oct 62     |           |
| E-26 CHOCOLATE    |                 |         |               |           |

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NUCLEAR  
AEROMARINE SATELLITE

TELEVISION  
KML VIDEO

PULSE WIDTH  
N/A

PULSE REPETITION TIME  
HIGH INDICATION

ANTENNA PATTERN  
1200 mile altitude

DATA STREAM  
BINARY REGISTERS

READOUT  
TH/R. TELEMETRY  
Six commutator points (Three occ. band)

FREQUENCY  
300 - 900 Hz

2500 - 3200 HzS (1000 - 6000 HzS MULTIPLE SET)

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~~FINAL~~ ~~DATA~~ ~~FILE~~

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Purpose.

To determine whether the Soviets had a radar with a capability to track an artificial satelliteellite and, specifically whether Agency vehicles were being so tracked.

Description.

Frequency. - The two-channel system covered the frequency bands 300 to 900 mcs and 2500 to 3200 mcs (in vehicles 1061 and 11, a filter was removed to permit coverage from 1000 to 6000 mcs). Consideration was given to the possibility of installing a 70 to 90 mc band but because of space limitations no antenna in this band was not explored.

Power. - It was calculated that, in order to track a satellite at an altitude of a few hundred miles, a radar would have to have a beam power (i.e., including antenna gain) of at least 400 watts in the 300 to 900 mcs interval and 1,000 watts in the 2500 to 3200 mcs interval.

Receivers. - Because of the expected high power levels it was possible to use simple crystal video receivers. Frequency was defined by band-pass filters and the received power criterion was achieved by adjusting the receiver thresholds to -20dbm (300 - 900 mcs) and -32dbm (2500 - 3200 mcs) respectively.

\* Pulse Repetition Frequency. - Initially it was assumed that the lowest pulse repetition frequency to be encountered would not be less than 17 pulses per second.

Pulse Counting Circuits. - Each receiver was equipped with two binary registers or accumulators; a counting register and a storage register which

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SOCTOP (Cont'd)

cooperated to provide a coarse measure of pulse arrival rate. The counting register accumulates pulses from the receiver until 255 pulses have been received at which time it sends a single pulse to the storage register and then accepts no more pulses. Every fifteen seconds, however, the counting register is reset to zero so the content of the storage register indicates the number of fifteen second intervals in which 255 or more pulses have been received. The content of the storage register is read out via the telemetry link, after which the register is reset to zero.

Antenna Pattern: - The antenna pattern is such that a ground area approximately 350 miles long by 1,000 miles wide is covered at an altitude of 200 statute miles.

Programming: - The equipment was programmed "on" and "off" by the vehicle stored program command system. This command system is preset prior to launch. Initially it was programmed on over the entire Soviet area; however, on later flights it was programmed on in segments of orbits over the Soviet area as an aid to location of emitters.

Operations:

SOCTOPS were flown on the following Discoverer vehicles:

| Vehicle | Date Launched | Bands Flown                   |
|---------|---------------|-------------------------------|
| 1057    | 10 Aug 60     | 2500 ~ 3200 mcs               |
| 1058    | 13 Sep 60     | 300 ~ 900 and 2500 ~ 3200 mcs |
| 1061*   | 26 Oct 60     | 300 ~ 900 and 1000 ~ 6000 mcs |
| 1062    | 12 Nov 60     | 300 ~ 900 mcs                 |
| 1105**  | 30 Mar 61     | 300 ~ 900 and 1000 ~ 6000 mcs |
| 1107    | 16 Jun 61     | 1000 ~ 6000 mcs               |

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| Vehicle | Mode Selected | TELEGRAMS       |
|---------|---------------|-----------------|
| 1107    | 7, 11, 12     | 1000 - 1800 sec |
| 1111A   | 11, 12, 14    | 1000 - 1600 sec |

From the data, it is noted that the frequency of the antenna was unchanged.  
A one orbit at inclined orbits.

Results:

Consider 1001 and 1002 as the two main accounts in the frequency range 1000 - 1800 sec; because of the presence of the leading break in each track, information could be derived in 1001 and.

Vehicle 1053 was tracked in real-time in the low band in orbits 1, 7, 10, 17 and 25. In orbit 10, over the Pacific, the radar (s) appeared to have a rate of one-third to one-fourth of 125.

No indications were obtained of long-term tracking activity over the 11's; however, the occasional counts obtained in both frequency bands are consistent with the existence of a northward pointing, fixed-position radar north of Moscow.

The high band SAW IC carried on vehicles 1107 and 1109 experienced circuit malfunctions.

Conclusion:

The SAW's answered the question they were designed to ask.

Valuable information can be obtained with extremely modest equipment and data link requirement -- in the latter case, three commutator points in a vehicle no carrier.

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SOCTOP (Cont'd)

Recommendations.

The SOCTOPS have served their purpose and accomplished their primary objective; better location of tracking radars should be performed by Project 102 payloads.

Since it will be desireable to determine whether the pending reconnaissance vehicles are being tracked -- and if so, in what frequency interval -- SOCTOPS are being procured to cover the frequency ranges 300 - 900, 900 to S-Band and S-Band to C-Band.

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T A K I

|                            |   |
|----------------------------|---|
| PURPOSE                    | TELL TIG DETECTOR<br>GENERAL ACTIVITY INDICATOR                       |
| RECEIVERS                  | XTAL VIDEO  |
| PULSE WIDTH                | 2 - 40 MICROSECONDS   |
| PULSE REPETITION FREQUENCY | 20 - 1000 PULSES PER SECOND   |
| ANTENNA PATTERN            | APPROXIMATELY 400 NM CIRCLE @ 1000 MCS<br>AND 700 NM CIRCLE @ 100 MCS |
| DATA STORAGE               | VEHICLE TAPE RECORDER   |
| READOUT                    | TELEMETRY<br>Sixty point commutator                                   |
| FREQUENCY                  | 160 - 175 MCS<br>100 - 1000 MCS                                       |
| PEAK POWER DETECTION       | -22 to 0 DBW  |
| AVERAGE POWER DETECTION    | 1 to 8% DUTY CYCLE  |

OPERATIONAL INFORMATION

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T A K I

Purpose

The TAKI receiver is a special purpose, light weight receiver. The receiver performs two basic functions: (1) it is a TAL-KPR detector and (2) it extracts and analyzes signal parameters of emitters within its overall frequency range.

Description

TAKI "A" - The TAKI-KPR detection portion of the system is a crystal video detector. The signal from the 100 - 1000 mc antenna is fed through a power divider to a 160 - 175 mc band-pass filter. A matched crystal detector混频器 tuned to 170 mc demodulates the video pulses. Video bandwidth is approximately 1 mc. The output of the crystal detector is amplified and passed through a threshold to reduce the number of noise pulses. This threshold is preset at 10 db above the tangential signal level to produce a low false alarm rate. Signals with sufficient signal strength pass through the threshold circuit to a flip-flop circuit, a pulse repetition gate of 95 pulses per second or multiple thereof and a 10 microsecond pulse width gate to three log count rate meters. The PRF and PW gates are accurate to within 10%. These log rate count meters serve as both storage and readout devices. The data from the log rate count meters are communicated once each second and stored in the vehicle tape recorder. The data are read out via the FM/FM telemetry link.

TAKI "B" - The TAKI "B" portion of the system is a wide open detection system over a frequency band of 100 - 1000 mcs. Video pulse demodulation is accomplished by a broadband matched crystal. The signal is then amplified by a log video amplifier. Eight outputs are obtained from the system.

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TARI (Cont'd)

seven output outputs are:

(1) "A" Counter - The "A" pulse counter counts the number of pulses arriving the receiver each second. Its range is from 1 to 100 pulses per second.

(2) "B" Counter - Function is same as the "A" counter. Its range is from 10 to 100 pulses per second.

(3) PRF - The pulse repetition frequency is measured from 20 to 1,000 pulses per second.

(4) IIT - The interlaced pulse train detector measures the number of times two pulses arrive in the system within 1 microsecond of each other. Note the PRF and IIT measuring circuits are subject to error in the presence of two or more interlaced pulse trains.

(5) PW - Pulse width is measured from 0 to 10 microseconds.

(6) Peak Power Detector - The peak power detector measures the peak input signal power.

(7) Average Power Detector - The average power detector measures one full cycle of the power received in the system.

(8) Analog - An analog recording is made of a signal by using several consecutive commutator points. A video sample of the peak detector is also taken and coupled on seven consecutive commutator points.

All of the above measurement devices have their own storage system. The input to the storage system is a voltage commensurate with the measurements obtained by each device. The storage circuits are sampled once each second and the data stored in the vehicle tape recorder. The data are read out via the telemetry link.

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TAKI (Cont'd)

Antenna Pattern. - The antenna pattern is approximately a 700 NM circle at 100 mcs and a 400 NM circle at 1000 mcs.

Programming. - The system is programmed "on" and "off" by the vehicle stored program command system. These commands are preset prior to launch of the vehicle.

Operations.

TAKIs have flown on the following Discoverer flights:

| <u>Vehicle</u> | <u>Date Flown</u>                  |
|----------------|------------------------------------|
| 1107           | 16 Jun 61                          |
| 1111           | 4 Aug 61 (Vehicle failed to orbit) |

Results.

On vehicle 1107 flown 16 June 1961 the TAKI was operational through 38 orbits. Failure after the 38th orbit was due to loss of power.

The TAKI was programmed "on" 26 of these 38 orbits. Intercept data were collected on 24 of the 26 programmed orbits. An estimated 8,600 data frames of intercept information was intercepted during the flight.

Although the results of this mission have not been completely analyzed, or are not available as of this date, the following results can be stated:

- (a) A high number of intercepts were made on orbit #25. (High signal density)
- (b) There was a higher than average number of intercepts made on orbit #16.
- (c) On orbit #16 an intercept was made of an exceptionally strong signal. This signal had a PRF of less than 100 pulses per second and a pulse width of approximately 22 microseconds.

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(a) The video tape recorder provided the following information concerning the flight: (1) the aircraft was flying at approximately 10,000 feet above sea level; (2) the aircraft was flying at a constant altitude; (3) the aircraft was flying at a constant speed.

(b) The aircraft was flying at approximately 10,000 feet above sea level. The aircraft was flying at a constant altitude and constant speed. During this flight, no additional information was obtained.

(c) The aircraft was flying at approximately 10,000 feet above sea level. At this altitude, the aircraft was flying at a constant speed. Below the aircraft, the terrain was flat and relatively non-combat sensitive.

(d) The aircraft was flying at approximately 10,000 feet above sea level. The aircraft was flying at a constant speed. The aircraft was flying at a constant altitude.

(e) The video camera was unoperative due to either malfunction or low sensitivity.

(f) Unpublished.

(g) It is important that information specifically for this project was not recorded in time for this flight and a substitute recorder was used. This recorder had poor speed compensation and as a result, direct conversion of raw data to machine readable form was not possible. However, the technically required information has been encoded on microcards for further decoding processing. (h) Recent analysis has shown that by the use of appropriate conversion charts it is possible to place intercept information with a fairly high degree of accuracy. Stanford University will publish the results in their forthcoming report on NAF contract AF04(07)-732. All future data should be amenable to automated processing.

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TKI (Litho)

Implementation.

It is recommended for converter processing the interest  
in the following:  
that sensitivity be increased in those circuits where it was found  
to be low.

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1000 - 10000 ft. 10000 ft. 10000 ft.  
1000 - 10000 ft. 10000 ft. 10000 ft.

1000 - 10000 ft. 10000 ft. 10000 ft.

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HIGH VALUE

Purpose.

A special purpose, light weight receiver designed to detect high powered CW and pulse modulated signals in the VHF region.

Description.

Receiver. - A sweeping filter with a pass band of 10 mc sweeps the frequency band of 40 - 120 mc in approximately 0.8 seconds. Upon detection of a signal the sweeping filter dwells on the signal for the remainder of the sweep period. The video output from the sweeping filter is amplified and sent to the measuring circuits.

Measuring Circuits. - The following measurements are made on signal parameters:

(a) Pulse counter - The pulse counter counts the number of pulses entering the receiver each second.

(b) The interlaced pulse train detector measures the number of interlaced pulse trains which enter the system each second.

(c) PRF - The pulse repetition frequency is measured between 20 and 1000 pulses per second.

(d) PW - Pulse width is measured between 10 microseconds and 4 milliseconds.

(e) Peak Power - The peak power detector will measure input signal power between approximately -50dbm and -37dbm. The AGC circuit will limit the amplitude of all signals greater than -40dbm. This circuit will serve primarily to indicate the effectiveness of this action. In this manner signals not quite strong enough to be accepted by the measuring circuits will be detected.

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ALL INFORMATION CONTAINED

(f) Average detector - The average modulation detector will measure the average modulation in the case of sinusoidally modulated RF, or the duty-cycle, in the case of a pulse modulated signal.

(g) Frequency - Intercept frequency is determined by a reference voltage from the sweep filter.

Output. - All of the above data are fed to a 16-point comparator and sampled at the rate of once a second. Narrow band video and wide band video is also generated. In addition other measurements are computed; i.e., temperature, voltage readings, etc. During pulses reset the storage system each second. The data are stored in the vehicle tape recorder and transmitted to ground via the FM/FM telemetry link.

Programming. - The system is programmed "on" and "off" by the vehicle stored program command system. These commands are preset prior to launch of the vehicle.

Rectifications.

SM-3 D flew in Discoverer 1109 on 7 July 1961. The vehicle was successfully orbited, however, the following two phenomena caused a loss of information:

The vehicle was to have carried an eight minute endless-loop tape recorder; last minute failure of the recorder, however, necessitated substitution of a four minute endless-loop recorder so connected that, by using two tracks, eight minutes of storage time was achieved. Readout, however, was destructive and could not be repeated.

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ILD 201 (Cont'd)

came up short, or loose connection in the receiver resulted in failed to operate, for all, report, of a reconnaissance use and sometimes failed to operate, during all, report, of a redundant uses. This erratic behavior not only caused a loss of information but also made extremely difficult the task of determining precisely whence the data were acquired. Figures \_\_\_\_\_ and \_\_\_\_\_ illustrate the action whereby the receiver operating history was pieced together.

Findings.

In the information that was retrieved, at no time was the sweeping filter observed to track a signal, indicating that no signal was encountered which had enough power to set the level of the automatic gain control. In several passes, however, it was possible to read peak power measurements.

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RECORDED BY  
SAC - LOS ANGELES  
FBI - LOS ANGELES

2000 000

1960 - 1970 AND THEREAFTER JUNE 2000

2000

2000 000

DATA SOURCE

RECENT

AMERICAN PATRIOT  
at 200 mile altitude

DATA SOURCE

250 - 350 m. CIRCLE

400 - 500 m.  
800 - 1600 m.s

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TOP SECRET

FUNCTION

A multi-pulse detection device with a special capability of detecting multiple-frequency radars [REDACTED]  
Description.

Receiver. - TOPSOC is a two-channel detection system. One band of the receiver covers the frequency range 400 - 800 mcs and the other band covers the frequency range 800 - 1600 mcs. Both channels of the receiver are superheterodyne. The system is capable of intercepting signals with a PRF of 100 to 5000 pulses per second, a pulse width of 5 microseconds to 1 millisecond and a signal strength of -25db to -5dbm. Scan time for both bands is 1.5 seconds. Bandwidth of the receiver is 4 mcs.

Antenna Pattern. - The antenna pattern is approximately a 350 MHz circle at 400 mcs and a 250 MHz circle at 1600 mcs.

Output. - The system has an analog output. A positive voltage output is used for the amplitude and pulse width of the received signal and a negative voltage is used to determine intercept frequency. Data are returned to the ground on the R/FM telemetry link. The vehicle tape recorder is used to store the information until it can be read out.

Programming. - The system is programmed "on" and "off" by the vehicle stored program command system. Events are preset prior to launch of the vehicle.

Operations.

TOPSOCs have flown on the following Discoverer vehicles:

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TOP SECRET (Cont'd)

| <u>Vehicle</u> | <u>Date Launched</u> |
|----------------|----------------------|
| 1113           | 12 Sep 61            |
| 1114           | 13 Sep 61            |
| 1115           | 13 Oct 61            |

Magnetic tapes have been received from the first two vehicles and indicate that the equipment functioned properly.

Results.

Processing of the analog records is being performed at NSA and SAC main. It has been confirmed, however, that useful information was obtained.

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**STOOL MARKINGS**

~~THIS IS A TEST~~

100 - 150 KHz

ARMANDO LIMA 700 S. CIRCLE

100/500 KHz

TRINIDAD PARK

RECEIVED

ARMANDO LIMA

RECEIVED

DATA SET RAGE

NOV 1972

RECEIVED

DATA SET

ARMANDO LIMA

ARMANDO LIMA 700 S. CIRCLE (S)

RECOGNITION INFORMATION PAGE  
\_\_\_\_\_

TEXAS PINT

Purpose.

To recognize the presence of a specific data link signal which employs a keyed, tone-modulated signal.

To record, in suitably small increments, the carrier frequency of the signal.

To record whether the signal carrier was amplitude modulated, frequency modulated or both.

To record the presence of either or both of two possible tone modulations.

Description.

Receiver. - Mechanically scanned superhetrodyne which sweeps the band 100 to 150 mc in approximately 200 seconds. Local oscillator frequency is digitized in increments to provide signal frequency resolution to 0.25 mc or better.

Recognition Circuitry. - Digital logic requires the presence of three pulses within 120 milliseconds, and requires that the pulses be from 3 to 15 milliseconds wide. Audio frequency filters and a discriminator provide the remainder of the recognition.

Output. - Quantized levels between 0 and 5 volts appearing on three pins for application to the telemetry commutator.

Operations.

The Texas Pint was successfully orbited by Vehicle 1112 on 30 Aug 61. On orbit #1 the recorded reconnaissance information was successfully read out at the Kodiak Tracking Station as was the information from real-time operation.

Following orbit #1 a blown fuse in the "command readout" circuit prevented readout at the regular tracking stations; however, an auxiliary command, associated with the Wala Hotel experiment, permitted readout at Ascension

TEXAS PINT (Cont'd)

Island. The result of this failure was that, after a readout at Ascension, the equipment would follow the preprogrammed timer schedule and collect reconnaissance information until the tape was full; at this point an end-of-tape signal prevented further recording until the next readout had been accomplished.

It is estimated that, because of this failure, a 75% information loss was suffered.

RESULTS.

The commutated wave-train of real time information from Orbit #1 was reduced manually at Lockheed and is presently being more carefully reduced at USAFSS. Almost every possible combination of "recognition" was observed, and it is tentatively concluded that one of the two calibration transmitters, operating at Elmendorf AFB, was observed at least once.

A digital decommutation has been tried on two of the readout tapes from the Ascension Island and has produced data of good quality. It is to be hoped, therefore, that all of the information can be processed by machine.

Tapes have been received from Ascension through orbit #90; how many contain useful information must await data reduction.

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FUNCTION:

To receive signals from (in frequency) which will be AM/FM-L type, indicating, possibly, the carrier frequency of the signal. To select either a teletype type channel (with priority mark present if other present) or extract the information carried thereon. To record the extracted digital information in a form suitable for presentation to voltmeter or correlated voltmeter points.

Operation:

The receiver is a conventional superheterodyne, electronically tuned by a staircase voltage generator, and feeds detected FM to the demultiplex-recognition unit. The demultiplexer decomposes the signal into individual channels, performs a recognition function, and feeds the desired signal to the reading and storage circuit, where the teletype portion of the signal is converted into voltages suitable for storage and retransmission.

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1 AUGUST 2015

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VIA

REPORT.

To acquire all of the AL/ME-1 type signal of which the RAINE JUICE equipment acquires only a part.

Description.

The equipment has not been completely defined but will probably be similar to the RAINE JUICE equipment.

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1000

1000

1000 1000

1000

1000 1000  
200 mile altitude

1000

1000 - 150

1000 - 150

1000 - 150

1000 - 150

1000 - 150  
1000 - 150  
1000 - 150  
1000 - 150  
1000 - 150

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LN JASSEY.

DATA.

To recognize and stop scan on a specific data-link signal -- a so-called "marker" -- to the right of the trajectory. That is ASK. To receive, store, and retransmit, the signal content. To record a file history of the amplitude of the received signal as an aid to position fixing.

DESCRIPTION.

The equipment is not yet designed, but it will have to be far more complex than the TAD. -- G.

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