C05025586

Approved for Release: 2021/04/20 C05025586



ANALOGUE PROCESSING SYSTEM (APU)

This system will in block diagram fall immediately after the receiving system (either the standard R-390)or(the new VHF solid state receiver to be used only at ______. Its function is that of an adaptive threshold device which is capable of determining the half-amplitude points of the leading and traiming edges of a pulse, be it data or mam made interfere@nce. By this imm technique the normal degradation of the data due to amplitude fluctuations is no longer a severe problem in the timing accuracy resolution of the data. Both large and small signals are measured at their respective half-amplitude points so that narrow pulses all appear to be the same width in the output data and the same is true for all wide-pulses.

In addition to bei g able to determine the hapf-amplitude points in the data pulses, this APU device will disregard all pulses whos time duration is less than a very carefully determined length such as 80 microseconds. This APU instrument also has an AGC bus which holds the receiver noise output constant so that wide changes in the ambient noise seen in the receiver output will not adversely affect the ability of the APU.



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DIGITAL PROCESSING XXXXXX UNT (PU)

This instrument will be ionally evaluated for the first time in the washington area during the first week of payload evaluation prior to depologing the collection team throughout the sites. The First (serial # 1) DPU will have been shipped to ______ and checked out prior to this time so that during the very first overseas use of Misscon 7105, this DPU **xx** system will be available for on-site

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