

~~TOP SECRET~~

How good are playscan recordings (how histograms)
Precision test tape for this calibration, & run thru complete system.
PRF accuracy: max variation & minus 1%, std. dev. about 0.6%
Time accuracy: max var. about plus & minus 2%, ~~xxxxxxxxxxxx~~ over all runs,
but much better over a single run so that if time calibration is effected at
beginning and end of each run, the max. var. is about plus & minus 1%, referenced
to one second intervals.

Go to Room 208 to see hardware, then return for summary.
(describe hardware in detail)

Summary: (Room 119)

I: Show "Brief" results on 35 runs (half of total) representing 14 missions.

II. Show new scan-sort technique.

III. Introduce Bruce.

FUTURE PLANS:

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Use 1/2 inch wide mag tape with 7 channel capability,

~~XXXXXXXXXXXX~~

Pull tape at 30 ips to permit ~~xxx~~ recording of "fine grain" time reference of
50 kc in addition to time code gen. The fine grain time base will permit electronic
defluttering of short term time errors...our major error at present. Also, it can
serve as a clock track for possible future automatic readout.

Data to be recorded on FM channels, & time code on FM

"Direct" record channels for "fine grain" time reference, voice, & time-std.
broadcasts.

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Both dropouts & interchannel crosstalk appear as effective time jitter...studies
are underway to minimize these.

Goals: PRF to 4 significant dec. places
Etab. burst time to 0.005 sec. or better.

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HANDLE VIA
BYEMAN
CONTROL SYSTEM ONLY