

NASA TECH BRIEF



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Integrated Sequence Display Device

The problem:

To provide a means for integrating a planned test sequence with real-time changes indicated on a visual display which includes a record of both planned and unplanned events related to a time base.

The solution:

A device that incorporates a display for scheduled information coupled with a means to include real-time changes. The unit features a scroll-like paper chart that is motor driven and can be advanced or reversed as necessary to display the time span of interest.

How it's done:

The basic device is a mechanical strip chart recorder involving a display chart, rollers, drive motors with associated gears and clutches, and a real-time recording area. The planned events are laid out in sequence on a continuous roll of paper which is attached to the motor driven rollers. On the left side of the chart, a scale represents the starting and terminating times of a given operation. These time increments are arranged in descending order from top to bottom so a forward, or bottom-to-top rotation will bring the chart closer to event termination time. The center portion shows all of the individual occurrences and their nomenclature, manpower assignments, start and completion times, and associated data. Changes from the planned

schedule are recorded in the time frame of their actual occurrence and indicated by a special format stamp; and cross reference is made between the scheduled event block and its new location to provide immediate recognition.

The far right chart area is used for notation of significant events which occur for individual time frames. This area also contains pre-noted listings and notes that are the result of observation of displayed occurrences. Flags are added to call attention to events of particular significance. Lines, both diagonal and horizontal, may be added to note event times, completions, or changes of particular interest to the user.

Note:

No further documentation is available. Inquiries may be directed to:

Technology Utilization Officer
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Kennedy Space Center, Florida 32899
Reference: B69-10316

Patent status:

No patent action is contemplated by NASA.

Source: David R. Rosine of
The Boeing Company
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Category 01