#### View metadata, citation and similar papers at core.ac.uk

July 1967

brought to you by CORE

#### Brief 67-10240

# NASA TECH BRIEF



NASA Tech Briefs are issued to summarize specific innovations derived from the U.S. space program, to encourage their commercial application. Copies are available to the public at 15 cents each from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

## Vis-A-Plan (Visualize A Plan) Management Technique

## **Provides Performance-Time Scale**

#### The problem:

To devise a bar-charting technique for representing and evaluating project activities on a performancetime basis.

### The solution:

Vis-A-Plan is a rectilinear method of charting that presents the logic diagram of a project as a series of horizontal time bars. Although compatible with and supplementary to PERT, this technique may be used independently in development planning without the need for sophisticated machine programming and computer analysis.

#### How it's done:

The event/activity relationship between Vis-A-Plan and PERT is the same, but the manner of display is significantly different. In PERT, the activity is represented by a line with an arrowhead showing the direction of activity flow, the length of the line has no real meaning in terms of graphic representation of length of time. In Vis-A-Plan, the length of the activity bar is the true length of the planned activity indicated by time scale, and each activity is identified by notations describing it and the individuals or offices responsible for its accomplishment. In addition, Vis-A-Plan uses alphabetical coding along the vertical axis, facilitating location of any stage of activities by rectangular coordinates.

Two fundamental types of activities are generally shown with the Vis-A-Plan chart: series and parallel. Series activities which have direct relationships and modifying effects upon each other are depicted as a series of steps. Parallel activities are those which proceed independently and concurrently, appearing as parallel bands. The network notations and reporting methods developed to simplify and standardize charting procedure are shown.

#### Notes:

- 1. This technique offers a number of distinct advantages to both management and the work force, as it is relatively simple to use and interpret. It can condense information from many documents and planning elements into a single time-scaled picture from which one can, by inspection, determine activity sequence and interrelationships, key events and dates, concurrent activities, procurement lead times, critical situations, and project status.
- 2. This technique should find many applications in management practice covering a wide range of activities including aircraft maintenance, manufacturing, publication production, government agency operations, research projects, and procurement activities. It should be particularly useful for making surveys and project reports in almost any work area because this system is easy to set up and maintain and is based on simple time/cost logic which anyone can understand.
- 3. Inquiries concerning this innovation may be directed to:

Technology Utilization Officer Kennedy Space Center Kennedy Space Center, Florida 32899 Reference: B67-10240

#### Patent status:

No patent action is contemplated by NASA. Source: Nathan H. Ranck of Trans World Airlines under contract to Kennedy Space Center (KSC-10073) Category 06 (continued overleaf)

This document was prepared under the sponsorship of the National Aeronautics and Space Administration. Neither the United States Government nor any person acting on behalf of the United States Government assumes any liability resulting from the use of the information contained in this document, or warrants that such use will be free from privately owned rights.

