MINUTES OF CONTROL & INSTRUMENTATION SUB-COMMITTEE

Date: December 3, 1958

Present: Olson, Conner and Mallory

The meeting was devoted to the discussion of the functions required of the main operator of the accelerator. Since local consoles every two-hundred fifty feet will not have regular operators, the main operator must have a large amount of information presented to him in as simple a manner as possible. A sequence-switching device which presents a series of spots on an oscilloscope is considered much preferrable to an enormous bank of meters. Information to be presented by such scanning techniques might include klystron power output, beam current at each two-hundred fifty feet, beam location (for steering purposes), accelerator temperature and phase reference signals.

If a sequence multiplexing system is installed it is readily adaptable to allow the operator to monitor details within each two-hundred-fifty-foot sector and pass what information is necessary ot the maintenance crew. Controls of steering, phasing, on-off for two-hundred-fifty-foot sectors may also be multiplexed to some extent.

Since the first two-hundred fifty feet of the accelerator must be running perfectly at all times, it is probable that the main operator will require much more complete monitoring of performance of this first sector than of any other portion of the accelerator.

K. B. Mallory