UTC CLOCK COORDINATION

For the past several months comparisons of the coordinated universal time (UTC) clocks at the U.S. Naval Observatory (USNO) and at NBS (presently known as NBS-UA) have shown a systematic offset in rate of approximately 1.3 parts in $10^{12}$. With the intention to improve the synchronization of these two clocks and to maintain their synchronization, the NBS clock was advanced 200 microseconds at 0000 UT on 20 September 1967. Consequently, the phases of the time signals from NBS stations WWV, WWVH, and WWVL were advanced 200 microseconds at the same time. The effect of this reset in epoch was to make the transmitted epochs of time signals from these NBS stations about 30 microseconds early relative to the UTC clock at USNO on the date of adjustment. Because of the offset in rates, the indicated times of the UTC clocks of the two agencies will gradually approach each other. Coincidence in epoch is expected around the middle of 1968, at which time appropriate steps will be taken to ensure continued close agreement.

Following the reset in epoch the NBS clock controlling the time signals emitted from these stations will be referred to as UTC(NBS). Similarly, the corresponding clock at the Naval Observatory will be designated UTC(USNO).

In performing microwave calibrations, a considerable amount of time is usually needed to prepare the system for measurement operation. Much of this preparation is related to adjustment of the system to the frequency of operations selected for the calibration. Time and cost often can be reduced by minimizing the number of times the operating frequency of the calibration system must be readjusted.

NBS NAMES DEPUTY FOR COMPUTER CENTER

William C. Bieber has been named Deputy Director of the Center for Computer Sciences and Technology of the National Bureau of Standards.

The Center develops standards for automatic data processing, conducts research, and provides technical services to other agencies for improving the cost effectiveness of federal Government programs in the selection, acquisition, and use of automatic data processing equipment. Mr. Bieber comes to NBS from the Westinghouse Electric Company where he managed a staff organization providing specialized automatic data processing services. Before joining Westinghouse, he was employed by the General Electric Company where he directed technical activities associated with the sale and installation of computer hardware and software systems to agencies of the Federal Government. Mr. Bieber also spent ten years with the International Business Machines Corporation managing a variety of data processing activities, including a series of contracts for the U.S. Air Force.