

TIME INFORMATION DISTRIBUTION
AT WHITE SANDS MISSILE RANGE

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ABSTRACT

At White Sands Missile Range (WSMR), there are several hundreds of instruments and instrumentation sites which require some type of "range time" information to allow correlation of the data they collect.

The instruments and sites are scattered over the 4000 square mile area of the Range. The requirements range from visual indications of range time to the nearest second to time of year to within tens of microseconds. The requirements for an individual user (instrument or site) may vary from mission to mission. Since the Timing System supports an average of seven missions a day and since users may frequently move from site to site over the Range, the goal for Timing at WSMR has been established as having the capability to meet the most stringent requirements at any site on the Range.

This paper presents the methods used by the WSMR Timing System to meet these Requirements. Also included is an analysis of the effectiveness of these methods for some critical instrumentation systems at the Range.

(ABSTRACT ONLY)

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