

Standards and Guidelines for Cadastral Surveys Using Global Positioning Methods

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Key words: GPS, Standards, Cadastral Surveys.

ABSTRACT

The development of high production GPS methods such as kinematic real time kinematic (RTK) , and fast static procedures have given rise to questions as to what are acceptable procedures for conducting cadastral surveys. This is due to the fact that these methods are radial survey methods. There are many standards and specifications that address how control surveys should be performed and to what accuracies but non that address acceptable procedures for the survey itself.

A team of U.S. Dept. Of Interior – Bureau of Land Management (BLM) and U.S. Department of Agriculture – Forest Service (FS) surveyors and geodesists have developed a new document titled *Standards and Guidelines for Cadastral Surveys Using Global Positioning Methods* (GPS Standards and Guidelines) to provide guidance to the cadastral surveyor in using GPS to conduct surveys. This document was developed from a combination of practical field procedures developed by team members, manufacturer guidelines, examination and review of existing standards and specifications, and review by government and private sector land surveyors. These Standards and Guidelines give an accuracy standard that are compatible with existing conventional survey methods and are easily achieved with current equipment. They are also in agreement with standards specified by the U.S. Federal Geodetic Control Committee (FGDC). Measurements are made by first establishing a project control network and then making corner measurements relative to this network. The procedures can be used with setups of two or more receivers.

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JS2 GPS for Cadastral Applications
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Standards and Guidelines for Cadastral Surveys Using Global Positioning Methods

FIG XXII International Congress
Washington, D.C. USA, April 19-26 2002