REPORT FOR THE FGCS MEETING
JANUARY 12, 2011
NGS USER GUIDELINES FOR SINGLE BASE REAL TIME GNSS POSITIONING
REAL TIME GNSS NETWORKS GUIDELINES

I. NGS USER GUIDELINES FOR SINGLE BASE REAL TIME GNSS POSITIONING

These guidelines were officially released after internal and public review and comment in January 2010. They received the second-most hits of any document on the NGS site in FY 2009-10. The intent was to fill a void that exists for Real-Time GNSS positioning practitioners in two ways:

1. Provides background information necessary for RT users in the field
2. Provides specific procedures and criteria to achieve 95% confidence with RT results

It is hereby submitted to the FGCS for approval and inclusion into the FGDC document archive

II. REAL TIME GNSS NETWORKS GUIDELINES

The NGS Guidelines for Real Time Networks (RTN) will provide a reference for administrators and users alike on concepts, issues and the definite components of RTN which should be considered for optimum function. These will not be put forth as standards or specifications, but as guidelines, will bring to light the many factors to be considered which will affect the production of consistent and accurate positioning aligned to the NSRS. The document is broken down into five chapters: site considerations; planning & design; administration; aligning to the NSRS; and users best methods. NGS is currently in discussion on the stance to take in regard to sanctioning or validating RTN to ensure alignment to the NSRS. Many new RTN user sectors, such as machine guidance, precision agriculture and GIS, are rapidly expanding and indeed are outpacing traditional sectors such as surveying and engineering users. These new users have little or no geodetic knowledge and require particular attention from NGS in both education and QA/QC methods.

The draft document is nearing submittal to the PSC for consideration for public draft release and it is requested that the FGCS review the document to augment its content.