

CECW-EP

Engineer Manual  
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Engineering and Design  
GEOSPATIAL DATA AND SYSTEMS

1. Purpose. This manual provides detailed technical guidance and procedures for compliance with the policy in Engineer Regulation (ER) 1110-1-8156, regarding Geospatial Data and Systems (GD&S) within the U.S. Army Corps of Engineers (USACE).
2. Applicability. This manual applies to all USACE Commands having civil works, military construction, and environmental restoration responsibilities. This manual specifically applies to functional areas having responsibility for regulatory investigations and studies, planning studies, real estate, emergency operations, and other functions involving automated geospatial data systems for surveying, mapping, or geospatial database development, such as modeling, and to GD&S that are used to produce a variety of products including: river and harbor maps, charts, and drawings; real estate tract or parcel maps; small- and medium-scale engineering drawings; survey reports; environmental studies; hazardous, toxic, and radioactive waste studies; and channel condition reports. This manual applies to 'in-house and contracted efforts.
3. Discussion. ER 1110-1-8156 establishes general criteria and presents policy and guidance for the acquisition, processing, storage, distribution, and utilization of non-tactical geospatial data throughout USACE. This policy is in compliance with Executive Order 12906, Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure (NSDI) and other appropriate standards, including the Spatial Data Transfer Standard/Federal Information Processing Standard 173, Federal Geographic Data Committee standards, and T&Service Spatial Data Standards. This manual also provides detailed technical guidance and requirements and identifies standards for GD&S. By using this manual, USACE will maximize its use of GD&S technologies; will promote interoperability among GD&S technologies; will reduce duplication of geospatial data collection and software development; will support the digital geospatial data life cycle; and will strengthen the USACE role in the NSDI.

FOR THE COMMANDER:



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