

DATA ITEM DESCRIPTION

Title: Geographic Information Systems (GIS) Plan

Number: OE-005-14.01

Approval Date: 20021001

AMSC Number:

Limitation:

DTIC Applicable: No

GIDEP Applicable: No

Office of Primary Responsibility: CEHNC-ED-CS-D

Applicable Forms:

Use/Relationship: The Geographic Information Systems (GIS) Plan will be used to describe the incorporation of GIS into Ordnance and Explosives (OE) projects and to provide requirements for the GIS at a specific project site. This Data Item Description contains instructions for preparing Work Plan chapters addressing GIS for OE projects.

Requirements:

1. General. The site-specific Geographic Information Systems (GIS) Plan for each project will document the site-specific GIS requirements tailored to the needs of that project. All required services will be accurately specified in the individual project Statement of Work (SOW) tasks.

1.1 All spatial data shall conform to the CADD/GIS Technology Center Spatial Data Standards for Facilities Infrastructure and Environment (SDSFIE) and the OE-GIS data standard as outlined in the specific task order and this DID. Metadata shall be created for the core OE-GIS data layers, and will be prepared in accordance with Federal Geographic Data Committee (FGDC) metadata standards.

1.2 Sources and Standards: The SDSFIE has been developed and produced by the CADD/GIS Technology Center. It is intended to provide a standard for GIS implementation at Department of Defense installations and for Army Corps of Engineers Civil Works activities. The SDSFIE is nonproprietary, and thus can be implemented using a variety of commercially available "off-the-shelf" CADD, GIS, and relational database software packages. The USAESCH OE-GIS standard is a complementary subset of data elements developed specifically to support OE-related project activities. The OE-GIS data standard is nonproprietary, and is an integrated subset of the SDSFIE. All spatial data will be required to conform to the OE-GIS data standard. Metadata will be prepared for each of the core spatial data layers (core data layers are defined as part of the OE-GIS data standard). The FGDC has prepared a standard for collecting, storing, and distributing metadata for GIS data. This standard is intended for use by all public and private installations that create and manage spatial data layers. The standard contains all the necessary elements to effectively document a data layer, including how it was generated, accuracy, responsible entities, distribution information, etc.

2. Geographic Information Systems (GIS) Incorporation. The GIS is a project tool that may be used to manage the project, assemble data for the administrative record, discriminate OE from background anomalies, manage and correctly geo-reference subsurface geophysical investigation data, and help determine areas requiring further investigation. The contractor shall apply the OE-GIS standard to the project to the extent required to create the products outlined in the specific task order SOW. The OE-GIS standard shall be used as a starting point to load data and to create a GIS tailored to the specific ordnance investigative needs of the site. Spatial data created for the project are to be provided in neutral, nonproprietary Spatial Data Transfer Standard (SDTS) format at the completion of the project, as well as in either Microstation SE/MGE (Microstation design files), GeoMedia, or ESRI-compliant formats (Shapefiles, coverages, or geodatabases) during the project. The use of one of these proprietary spatial data formats will be defined in the task order SOW. Raster data (orthophotography, remote sensing imagery, etc.) are to be provided in Tagged Image File format (TIF) at the completion of the project, as well as in either TIF format or MrSID-compliant format during the project. The selection of one of these raster data formats will be defined in the task order SOW. Supporting tabular data shall be provided in ANSI SQL language format at the completion of the project, as well as in either Microsoft Excel, Microsoft Access, or Oracle database format, dependent upon the storage and performance requirements of the project. The use of one of these proprietary database formats will be defined in the Task Order/Delivery Order SOW.

DID OE-005-14.01

3. Computer Files.

3.1 All final document files (e.g., reports and associated figures and tables) generated shall be furnished to USAESCH in IBM PC-compatible MS Office 97 or higher software and in Adobe Portable Document Format (PDF). Products shall be suitable for viewing, without modification, on the Internet. Freeware versions of Adobe Acrobat Reader, Netscape, and Internet Explorer, as appropriate, shall accompany the document files on CD-ROM so that the user can use the CD to either install the programs and documents on a machine, or use the CD in a standalone mode to view the document files. In submissions with multiple CDs, only one copy of the viewers is required. It shall be included on the first CD of the series. The basic software supported to the field shall be capable of operating on a typical single Intel Pentium processor PC utilizing the Windows 2000 operating system with a minimum of 256 megabytes of memory and adequate disk storage for project data.

3.2 All final GIS data generated by this contract and other individual Task Orders/Delivery Orders shall be submitted in non-proprietary Spatial Data Transfer Standard format at the close of the project, as well as in the proprietary format used for the execution of the project (Microstation/MGE DGN format, GeoMedia, or ESRI's shapefile, coverage, or geodatabase format). All in-progress and fielded GIS data, design drawings, survey data, relational databases, geophysical data, and other related data may be required to be available on line to the Government by HTTP or FTP down load or by Web based GIS queries as specified for the project. All formal GIS data submittals will be made on PC CD-ROM. Each submittal shall be accompanied by a freeware viewer application appropriate for reviewing the proprietary formatted GIS data (e.g., ArcExplorer for ESRI format shapefiles and coverages). The viewer application need only be supplied on one CD-ROM for multiple CD-ROM submittals. At a minimum, the contractor will supply instructions for loading the data and viewer application. No other additional software shall be required, and no data modification shall be required for viewing the submittal. Other specific packages to be considered must be proposed to USAESCH for approval and for system and mission compatibility.

4. End of DID OE-005-14.01.