

<b>DATA ITEM DESCRIPTION</b>	<small>FORM APPROVAL OMB NO 0704-0188</small>
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1. TITLE <b>Geographic Information Systems Plan</b>	2. IDENTIFICATION NUMBER <b>OT-FMC-005-14</b>
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3. DESCRIPTION / PURPOSE To describe the incorporation of geographic information systems (GIS) into Ordnance and Explosives (OE) projects and requirements for the GIS Plan at specific project sites.

4. APPROVAL DATE (YYMMDD) 990205	5. OFFICE OF PRIMARY RESPONSIBILITY CEHNC-ED-CS-D	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
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7. APPLICATION / INTERRELATIONSHIP This Data Item Description contains instructions for preparing Work Plan chapters addressing geographic information systems for OE projects.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
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10. PREPARATION INSTRUCTIONS

10.1 General. The site-specific Geographic Information System Plan for each project will document the site specific Geographic Information System (GIS) requirements tailored to the needs of that project. All required services will be accurately specified in the individual project scope of work tasks.

10.1.1 All data shall conform to the Tri-Service Spatial Data Standards (TSSDS) and as outlined in the specific delivery order.

10.1.2 Sources and Standard: The TSSDS have been developed and produced by the Tri-Service CADD/GIS Technology Center. They are designed for computer assisted mapping methods that must interface with other surveying firms, Government contractors, and customers so that the final product will be usable with consistent CADD documents.

10.2 GEOGRAPHIC INFORMATION SYSTEM (GIS) INCORPORATION. The A/E or contractor shall take the GIS data, manual, file, and database structure from the CEHNC GIS standard and apply it to the projects to the extent required to create the products outlined in the delivery orders specific SOW. The standard shall be used as a starting point to load data and to create a GIS tailored for the specific ordnance investigative needs of the site. All digital data shall be created using Microstation 5.5 and Intergraph's MGE GIS tools to allow it to be loaded directly into the CEHNC Ordnance GIS system. The main purpose of the GIS is to assemble all the data required to associate the non-intrusive subsurface geophysics investigative data to it's correct geographical location, the relational database, mapping and remote sensing data. The GIS tools are used to manage the project, assemble data for the administrative record, help determine areas requiring further investigation and to discriminate ordnance and explosives waste from background anomalies. The discrimination is done by a program that uses a subset of the GIS data.

10.3 COMPUTER FILES. All final text files generated by this contract and other individual task orders shall be furnished to CEHNC in MS Office 97 or higher software, IBM PC compatible format and in Adobe Portable Document Format (PDF), suitable for viewing, without modification, on the Internet. Freeware versions of Adobe Acrobat Reader, Netscape, and Internet Explorer shall accompany the text files on CD-ROM, so that the user can use the CD to either install the programs and text files on a machine, or use the CD in a stand alone mode to view the text files. The basic software supported to the field shall be capable of operating on a typical single Intel Pentium processor PC utilizing the Windows NT version 4.0 operating system with a minimum of 32 megabytes of memory and adequate disk storage for project data. All in progress and fielded GIS data, design drawings, survey data, relational databases and related data generated may be required to be available on line to the government through the use of an Internet connection. Formal submittals for all GIS, survey and mapping data, and design drawings, generated by the contractor under this contract shall be submitted in the proper format and media that will permit their loading, storage, and use without modification or additional software on the CEHNC GIS workstations. The base GIS workstations consist of Intel dual Pentium GIS machines with 96 megabytes of memory. The workstations run under the Windows NT 4.0 operating system with Microstation utilizing the MGE 6.0 compliment of software and the Oracle relational data base. Current GIS project related software includes: Microstation 5.5, Oracle 8.0, IRAS B, IRAS C

11. DISTRIBUTION STATEMENT

Data Item Description OT-FMC-005-07 (Continued):

5.04 and IRAS Engineer, DB Access, MGE Basic Nucleus, MGE Analyst, MGE Map Finisher, MGE Projection Manager, MGE Grid Analyst, MGE Modeler, MGGA, ERMA Data Manager, ERMA Site Geologist, Inroads, and Insitu. Other specific packages to be considered must be proposed to CEHNC for approval and for system and mission compatibility. All GIS data for formal submittals shall be on either eight millimeter NT 10 Gigabyte tape, PC 3.5" floppies or PC CD-ROM. The PC CD-ROM is the preferred format, supplemented with 10 Gigabyte tape for larger data sets.