

STATEMENT OF WORK

EXPAND SDSFIE/FMSFIE DATA SETS TO MEET CLEAN AIR ACT (CAA) AND SARA TITLE III REGULATIONS AND DATA REPORTING REQUIREMENTS Project # 01.016

1.0 Requirements and Objectives

1.1 All Federal government agencies and organizations are required to comply with the environmental laws and regulations and the associated reporting requirements. Military organizations have policies and instructions describing procedures and policies to achieve and maintain compliance with these laws and regulations. These policies and procedures integrate environmental considerations into military operations and training.

1.2 Marine Corps Air Station (MCAS) Cherry Point and Marine Corps Base (MCB) LeJeune have already taken steps to identified existing environmental data sets that are not in the Spatial Data Standard/Facilities Management Standard for Facilities, Infrastructure, and Environment (SDSFIE/FMSFIE). This information was provided MCAS Cherry Point - "Environmental Affairs Department Data Management Report" and MCB LeJeune - "Environment Management Department Data Management Report". The purpose of this delivery order is to review those reports and develop the data structure and data dictionary to meet the legal reporting requirements under the Clean Air Act (CAA) and the Superfund Amendments and Reauthorization Act (SARA). Additional environmental laws and regulations will be completed in later phases of this project.

1.3 All reviews, correlations, etc. associated with this project shall be based upon the SDSFIE/FMSFIE Release 2.00 which was completed in January 2001.

2.0 Scope

2.1 This Scope of Work consists of support activities as described in Task Statement of section 3.0

3.0 Task Statement

3.1 The approximate performance period shall be 365 calendar days from the award date of this delivery order. The approximate performance period shall be April 2001 through December 2001. The contractor shall prepare a brief workplan with milestones (i.e., target completion dates) for approval by the MCAS Cherry Point & CADD/GIS Technology Center POCs prior to beginning work on the tasks outlined in this SOW.

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The workplan shall provide a listing, with target delivery dates and completion periods, for all deliverables & Government review periods.

3.2 This Statement of Work includes the following tasks:

3.2.1 Task 1 – Compare the Legal Reporting Requirements to Existing Environmental Data Sets

3.2.1.1 The contractor shall review and compare the legal reporting requirements under CAA and SARA Title III to the existing environmental data sets within the SDSFIE/FMSFIE and at MCAS Cherry Point and MCB LeJeune.

3.2.1.2 The contractor shall document the deficiencies between the SDSFIE/FMSFIE and the legal reporting requirements under CAA and SARA Title III. The contractor shall prepare a brief memo (i.e., white paper) describing the findings of the review and comparison, the recommendations, and a correlation spreadsheet containing a comparison of what is currently in the SDSFIE/FMSFIE versus what should be added to be consistent with the CAA and SARA Title III legal reporting requirements.

3.2.2 Task 2 – Prepare Draft SDSFIE/FMSFIE Data Model Incorporating CAA & SARA Title III Legal Reporting Requirements

3.2.2.1 The contractor shall provide a modified SDSFIE/FMSFIE data model that includes the proposed new tables, attributes, and domain values needed to support the legal reporting requirements under CAA and SARA Title III. The contractor shall determine the relationships between tables and create an entity relationship diagram. The goal for development of the new data model will be for the geospatial features (i.e., Entity Types) to remain within the current SDSFIE data model structure, with the remainder of the CAA and SARA Title III legal reporting requirements being developed within a new "transactional" (relational) FMSFIE Environmental Entity Set with new Entity Classes & Subclasses.

3.2.2.2 The contractor shall use a consistent naming convention similar to the current SDSFIE/FMSFIE data model. The contractor shall define all new tables, attributes, and domain values to be included in the SDSFIE/FMSFIE data model.

3.2.2.3 The contractor shall develop the key generic business rules for the database. The business rules at a minimum will define the legal constraints, requirements, and limitations imposed on the data; the business rules will be sufficient to define basic functionality of the interface, but will not include all details needed in every state or at every base.

3.2.3 Task 3 - Draft Data Model Review

3.2.3.1 Based on finding from Tasks 3.2.1 and 3.2.2, the contractor shall develop a draft data model structure for review by the Project Sponsor and the Environmental Field User

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Group (FUG). The government shall provide comments back to the contractor within 21 calendar days.

3.2.4 Task 4 – Proposed Final Data Model

3.2.4.1 The contractor shall incorporate the comments received on the draft data model and incorporate those findings into a final data model. The government shall review the proposed final data model and provide comments back to the contractor within 30 calendar days.

3.2.4.2 The contractor shall incorporate any additional comments received on the final data model. The contractor shall submit the final data model for inclusion in the next release of the SDSFIE/FMSFIE to the CADD/GIS Technology Center POC.

4.0 Deliverables

4.1 Under this Statement of Work, the contractor shall deliver the following:

4.1.1 SDSFIE/FMSFIE deficiencies memo for the CAA and SARA III reporting requirements.

4.1.2 Draft SDSFIE/FMSFIE data model for the CAA and SARA III reporting requirements. Data model includes the ERD, data dictionary, and business rules.

4.1.3 Proposed Final SDSFIE/FMSFIE data model for the CAA and SARA III reporting requirements.

Text documents, memos, papers, etc. shall be provided in Microsoft Word 2000 or 97 digital format. Spreadsheets shall be provided in Microsoft Excel 2000 or 97 digital format. Database tables, etc. shall be provided in Microsoft Access 2000 or 97 digital format. Conceptual models/diagrams may be illustrations provided in either Word 2000/97, Powerpoint 2000/97, or Acrobat Reader (.pdf) digital formats. Final data models shall be provided in ERWIN 3.5 and Acrobat Reader (.pdf) digital formats. Deliverables shall be provided via E-mail or mail (floppy disk or CD-ROM). Government review will begin upon successful delivery of each deliverable to each POC.

5.0 Points of Contact (POC):

5.1 MCAS Cherry Point: Denise Smith – 252-466-4524

5.2 CADD/GIS Technology Center: Bobby Carpenter – 601-634-4572
(carpenb@wes.army.mil)

Address:

Army Engineer R&D Center (Waterways Experiment Station)
CEERD-ID-C (Attn: Bobby G. Carpenter)
3909 Hall Ferry Road

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Vicksburg, MS 39180-6199

6.0 Target Completion Dates

6.1 The proposed target completion dates are aligned with the Environmental Field User Group meetings scheduled for FY01, which has oversight and comment privileges on this project.

6.1.1. Workplan -

6.1.2. SDSFIE/FMSFIE deficiencies memo for the CAA and SARA III reporting requirements – Target Completion Date – 30 March 2001.

6.1.3 Draft SDSFIE/FMSFIE data model for the CAA and SARA III reporting requirements – Target Completion Date – 15 May 2001.

6.1.4 Proposed final SDSFIE/FMSFIE data model for the CAA and SARA III reporting requirements – Target Completion Date – 15 September 2001.