

# PROJECT FACT SHEET

**CONTRACT TITLE:** Development of a Data Management System for Assistance in Conducting Area of Reviews (AORs) on Class II Injection Wells in Oklahoma

**ID NUMBER:** DE-FG22-95MT95003

**CONTRACTOR:** Oklahoma Corp Commission  
Oil & Gas Conservation Div

**B & R CODE:** AC1015000

**ADDR:** P.O. Box 52000-2000

**DOE PROGRAM MANAGER:**

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**PROJECT SITE**

**CITY:** Oklahoma City

**STATE:** OK

**CITY:**

**STATE:**

**CITY:**

**STATE:**

**CONTRACT PERFORMANCE PERIOD:**

03/14/1995 to 03/13/1997

**PROGRAM:** Environmental-Oil

**RESEARCH AREA:**

FUNDING (1000'S)	DOE	CONTRACTOR	TOTAL
PRIOR FISCAL YRS	570	0	570
FISCAL YR 1996	325	0	325
FUTURE FUNDS	500	0	500
<b>TOTAL EST'D FUNDS</b>	<b>1,395</b>	<b>0</b>	<b>1,395</b>

**OBJECTIVE:** Provide the resources and capabilities to permit the State of Oklahoma to conduct Area of Review (AOR) variance analyses on a statewide level including (1) analysis and identification of areas which may qualify for AOR variances; (2) correlation of information from various databases and automation systems to conduct AORs in areas that do not qualify for variances; (3) evaluation of risk of pollution, during permitting and monitoring, using risk based data analysis; and (4) ability to conduct spatial analysis of injection well data in conjunction with other geographically referenced information.

**METRICS/PERFORMANCE:**

**Products developed:**

**PROJECT DESCRIPTION:****Background:**

**Work to be performed:** This work involves (1) a requirements analysis for hardware and software needs of the OCC to effectively process AOR and variances; (2) preparation of a data systems acquisition plan; (3) acquisition and installation of hardware and software; (4) implementation of the required systems including training; and (5) preparation of system documentation (including Users and Operators Manuals).

**PROJECT STATUS:**

**Current Work:** On schedule.

**Scheduled Milestones:**

Implementation Plan	06/95
Acquisition Plan	09/95
Acquisisiton completed	09/96
Training and documentation completed	12/96
All systems fully operational	03/97
Final report	03/97

**Accomplishments:** The Oklahoma Corporation Commission began implementing the project based on the resources provided by the U.S. Department of Energy in March 1995. With the resources provided, the OCC purchased and installed 17 personal computers or client workstations with the necessary software and associated hardware. This equipment was ordered on May 4, 1995, and received on May 24, 1995. The installation of the equipment began on July 10, 1995, and was completed on July 20, 1995. The equipment list was forwarded with the technical report dated September 18, 1995.

With the additional funding received on September 29, 1995, the OCC ordered 66 additional client workstations, the software package for systems operations, the developmental server and the required hubs, switches, cabling, etc. that will allow us to complete the acquisition phase of the project the exception of the production server. The state contractor delivered machines of lesser quality than what was ordered and the OCC returned the equipment and requested the proper machines, 41 of which has been received. The OCC's data processing personnel are in the process of preparing the machines for installation. The hubs, switches, etc. have been ordered but not received. The OCC will be ordering the developmental server and the cabling through the state's bid process in March 1996.

The OCC hired two data system programmers/analysts to commence rewriting the system in January 1996. Two more will follow in March 1996. Training has commenced for the OCC's data processing personnel for use of the new operating system. The OCC successfully converted its mainframe computer surety system to the new client server network and implemented it on September 29, 1995. The OCC currently lacks sufficient storage space to bring all the existing oil and gas spatially referenced data systems in-house and fully integrate the systems for use in the determination of AORs or AOR variances but the developmental server will provide the minimum computer storage space to convert the remainder of the mainframe computer systems. The conversion is being accomplished using a software package that allows the COBOL programming to run in a client/server environment. This conversion allows the UIC Department's system to read the Surety system but not actually interact with the converted files. This ability allows for quicker verification of an operator's financial assurance mechanism. This ability has not been available prior to this conversion and will increase the agency's ability to verify financial assurance for UIC wells.

Also, the OCC began identifying areas in Oklahoma that may potentially qualify for general variances under the developed guidelines. The OCC should soon receive the information as to the viability of a variance program in Oklahoma and what additional information the division may need to acquire to compete such a program.

In September 1995, the OCC met with representatives from CH2M Hill for the attainment of the Risk Based Data Management Program (RBDMS). A second meeting was held on October 26, 1995 to further define the agency's needs from the RBDMS package. CH2M Hill is making the necessary amendments to their product.