

RMB CONSULTING & RESEARCH, INC.

RMB Consulting & Research, Inc. (RMB) is a multi-disciplinary air quality consulting company providing services to electric utilities and a wide range of industrial sources. Since the early 1970's, RMB personnel have been working with utility and industrial companies to evaluate and comply with continuous emission monitoring system (CEMS) requirements established by EPA and State environmental agencies. For over twelve years, RMB has also served as the primary monitoring and testing consultant for the Electric Power Research Institute (EPRI) and the Utility Air Regulatory Group (UARG). Brief descriptions of selected RMB services are provided herein. RMB invites you to visit our website at www.rmb-consulting.com or contact one of our staff for more information.

Hg CEMS Services

RMB has extensive expertise in the procurement, certification and operation of Hg CEMS. In 2006 and 2007, RMB managed EPRI's Hg CEMS field demonstration project which, at times, included a total of eight different Hg CEMS. RMB continues to serve as EPRI's technical consultant in the ongoing development of a Hg calibrator stability and traceability protocol.

RMB has assisted numerous electric utilities with the installation of Hg CEMS to comply with Consent Decrees and in anticipation of the Clean Air Mercury Rule (CAMR) requirements. RMB's services include CEMS procurement, certification oversight, QA Plan preparation and regulatory interpretation.

RMB is knowledgeable about the various Hg reference method procedures and has operated the sorbent trap Method 30B systems for conducting RATAs. RMB has also assisted test contractors and utilities in analyzing sorbent trap samples using the Ohio Lumex analyzer.

PM CEMS Services

As with Hg and standard pollutant CEMS, RMB has a wealth of expertise related to PM CEMS. Over the past several years, RMB has assisted several utilities with the procurement, installation, certification and operation of PM CEMS and has managed PM CEMS field demonstration projects for EPRI. Services included, but were not limited to, technical specification development, installation and test plan preparation, correlation test management and QA Plan development.

CEMS Program Audits

RMB's comprehensive audit services have proven to be a valuable tool for many clients to ensure that their CEMS program is in compliance with 40 CFR Part 75 as well as other applicable regulations and permit requirements. During a comprehensive audit, RMB will evaluate a source's QA Plan, Monitoring Plan, EDRs and recent QA test results. RMB also conducts a site visit to inspect the CEMS equipment, review onsite records, evaluate program management and interview plant personnel with CEM program responsibilities. In several instances, RMB has performed audits for legal counsel under attorney-client privilege.

Quality Assurance Plans

RMB prepares comprehensive CEMS QA Plans for compliance with 40 CFR Part 60, Part 63 and Part 75. RMB notes that the QA Plan is an integral component of a regulatory audit. RMB has developed numerous comprehensive QA Plans that have successfully weathered audits by EPA and State agencies. A detailed QA Plan will also serve as a valuable internal training tool. Unfortunately, many QA Plans have not kept pace with either regulatory or internal program revisions.

Compliance Assurance Monitoring (CAM) Plans

RMB provides consulting services for the development of CAM protocols for electric utility sources. RMB specializes in CAM Plan development for many difficult configurations that utilities are beginning to encounter as they install more baghouses and scrubbers. Typically on these projects, RMB gathers and evaluates boiler and pollution control operating data and develops a CAM test protocol. After completing the test protocol, RMB supervises the pollution control test program. When testing is complete, RMB develops a site-specific CAM protocol and corrective action plan for submittal to the applicable State agencies.

Litigation Support & Expert Testimony

RMB's senior staff provides technical litigation support to the company's legal counsel. Moreover, RMB continues to provide technical support to UARG providing comments on proposed regulations and monitoring programs. RMB assistance includes: regulatory review and analysis, CEMS, COMS and stack test data review and analysis, and expert testimony.

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EPA Petitions

RMB's staff has also prepared numerous petitions addressing a variety of issues from approval of alternate monitoring approaches to resolving non-complaint issues. Founded on sound technical support, these petitions have successfully reduced potential monetary and allowance fines associated with noncompliance issues. In several cases, RMB has worked with legal counsel to resolve compliance issues.

Electronic Data Report Assistance

RMB offers consulting services for generating and/or reviewing quarterly EDRs. For several projects, RMB routinely accesses the CEMS data via modem or internet for data validation purposes. RMB also reviews copies of the maintenance logs to ensure that the source is complying with EPA's diagnostic and recertification test policy. At the end of each quarter, RMB conducts a final review and generates the EDR. RMB has experience with most of the commercially available DAHS software packages. RMB is well versed in the new ECMPS Client Tool software and is serving as an "agent" for numerous clients.

CEMS Procurement Assistance

RMB offers turnkey CEMS procurement services including, but not limited to, bid specification preparation, vendor bid evaluation, test protocol preparation, installation and certification oversight and QA Plan and Monitoring Plan development. These services are founded on a wealth of expertise in CEMS technology and associated regulatory requirements. RMB will ensure that you are selecting the best monitoring approach and that the system is installed in accordance with the applicable regulations (e.g., 40 CFR Parts 60 and 75, Clean Air Interstate Rule and NO_x Budget Programs).

CEMS & Regulatory Training

Since 1996, RMB has presented a CEMS Users Training Course in Raleigh, North Carolina. This course is typically offered on an annual or semi-annual basis, though RMB has presented this course on a semi-annual basis for the last several years. The three day comprehensive training course is divided into two sessions. The first session is a two-day overview of CEM fundamentals and regulations pertaining to both Part 75 (Acid Rain) and/or NO_x Budget Program sources. The second session is a half-day, "hands-on" introduction to CEM equipment operation and maintenance. Topics include regulatory requirements

and revisions, CEM technologies, CEM QA/QC, CEM program auditing, and CAM as well as current, applicable research projects. EPA representatives and CEM equipment vendors often join RMB staff members as instructors. In the past, the course has been attended by utility and industry personnel from the United States and Canada, as well as federal and State agency representatives. Participation is limited to approximately forty (40) attendees. RMB also provides onsite training tailored to client-specific monitoring and regulatory requirements.

New Unit Startup & Certification Assistance

Similar to our CEMS procurement projects, RMB also provides turnkey consulting services to clients commissioning new units, stacks and/or pollution control equipment. Project support includes monitoring system evaluations, oversight of all required notifications, test protocols and test programs. RMB also revises or develops QA Plans and Monitoring Plans and prepares CEMS certification/recertification applications.

EDR-AUDIT

RMB continues to offer EDR-AUDIT as an alternate tool for auditing the correctness and completeness of EDRs. EDR-AUDIT Version 8.0 is fully compatible with the new XML EDR requirements. The software provides a complete check of all calculated emission values, EDR format and content, QA/QC results and substituted data values. Software features include: RATA optimizer, annual span evaluation, normal load analysis, QA certification event assistance and custom reports. EDR-AUDIT is an extremely cost effective product and is provided by RMB on a licensed basis.

RMB STAFF

For additional information concerning any of RMB's services, please do not hesitate to contact one of our staff members.

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For more information concerning current air quality issues, visit RMB's website at:

www.rmb-consulting.com