

TRK ENGINEERING SERVICES INC.

TRK Engineering Services, Inc. is a consulting service group specializing in electrostatic precipitators and their application in numerous industrial settings including the Utility, Pulp and Paper, Cement, Steel, Mining and Petrochemical industries. TRK offers a wide range of professional services to meet your air cleaning needs, including:

- Complete on-line and off-line inspection and analysis of equipment, and supervision of all recommended repair / retrofit work. Inspection findings and recommendations are documented in a written report. Photographs and video of inspection findings are included when useful to enhancing the report.
- Analysis of process parameters and precipitator operation to optimize system performance.
- Technical support and troubleshooting of all precipitator and related control equipment.
- Analysis and supervision of stack emission testing.
- Assistance with the preparation of equipment specifications and unbiased evaluation of bid proposals.
- Assistance with the evaluation and installation of new equipment.
- Training of plant personnel in all areas of electrostatic precipitator application and operation to promote high efficiency, low maintenance operation.
- Field analysis of precipitator gas distribution, evaluation of flow tests and model studies.
- Assistance with modification, analysis and testing of gas conditioning systems (NH₃, SO₃, humidity, etc.).
- Analysis of the effect of process changes on precipitator performance from fuel and raw material switching, low NOx burner installation, to any other modification.
- Access to other industrial consultants and contact with other plant locations to assist in providing solutions to equipment and process related problems.
- **PRECIPITATOR SEMINARS:** TRK Engineering manages Precipitator Seminars which conducts nationwide public and in-house seminars about electrostatic precipitation. Principle lecturer is Thomas Keeler, who has lectured in the past with Jacob Katz , the late Herbert J. Hall, and Robert Crynack.
- **APC NETWORK (www.apcnetwork.com):** The Air Pollution Control Network website was created by TRK Engineering to provide end-users of air pollution control equipment with an unbiased source of information to support the purchase, understanding and effective use of their equipment.
- **REMOTE MONITORING:** With a modem connection TRK Engineering can monitor clients' precipitator operation via PC Anywhere from a remote location. Information can be used to evaluate ESP operation and help troubleshoot problems that might exist. This can sometimes solve problems that jeopardize compliance and avoid the cost of a field visit. It can also enhance preventative maintenance programs and add credibility to Title V/CAM reporting.
- TRK Engineering has successfully serviced more than 300 locations throughout the world.

For more information or assistance contact our local representative or:

Thomas R. Keeler - President
TRK Engineering Services, Inc.
95 Clarks Farm Road
Carlisle, Massachusetts 01741 USA

Tel: (978) 287-0550
Fax: (978) 287-0569
Email: trkeng@apcnetwork.com
URL: www.apcnetwork.com

Partial Client List

ANGLO AMERICA SANTIAGO, CHILE S.A.	Copper Smelter ESPs: 1 Dry ESP & 6 Acid Mist ESPs. Inspection services, process evaluation and ESP design review.
BP OIL COMPANY TEXAS CITY, TX	3 Cat Cracker ESPs & Acid Mist ESP. Inspection services. Assisted rebuild of acid mist unit.
ARCO OIL COMPANY CHERRY POINT, WA	6 Acid Mist ESPs. Inspection services. Process and TR control evaluation
ASH GROVE CEMENT COMPANY FOREMAN, AR	3 Kiln ESP Systems. Assisted in waste fuel burning evaluation.
BETHLEHEM STEEL CORPORATION BETHLEHEM, PA	3 BOF ESPs. Performance evaluation and inspection services. Advised equipment upgrade and ESP rebuild projects.
CEMEX / CEMENTOS DIAMANTE COLOMBIA S.A.	5 Kiln ESPs. Inspection, TR control and ESP auxiliary equipment upgrades. Process evaluation.
CEMEX CEMENT COMPANY WAMPUM, PA	3 Kiln ESPs. Evaluated process problems. Controls troubleshooting and equipment modifications.
CEMEX CEMENT COMPANY DEMOPOLIS, AL	2 Kiln ESPs. Inspection and performance evaluation. Modified cooling tower spray system to improve ESP performance.
CEMEX CEMENT COMPANY RMC LONESTAR DAVENPORT, CA	Preheater Kiln ESP. Startup and annual inspections. System operation & process evaluations. Advised TR control upgrades and discharge electrode replacement.
CHAMPION PAPER COMPANY MOGI GUACU, BRAZIL S.A.	Recovery Boiler ESP. Supervised rebuild and provided process evaluation
CHEVRON OIL COMPANY RICHMOND, CA	Cat Cracker ESP. Supervised construction of new ESP installation. Startup and process evaluation.
CITY OF HAMILTON HAMILTON, OH	Hot Side ESP. Inspection and service. Evaluated fuel change and boiler combustion to improve ESP operation & performance
CORNING ASAHI STATE COLLEGE, PA	3 Glass Furnace ESPs. Inspection and process evaluation. In-house precipitator seminar.
DUKE POWER COMPANY CHARLOTTE, NC	Power Boiler ESPs. Controls upgrade and inspection of 10 ESPs throughout Plant system. Assistance in process and equipment evaluations & improvements.
DOMINION – MT STORM MT. STORM, WV	3 Power Boiler ESPs. Annual inspections and process evaluation. Assisted equipment upgrades and rebuild. Improved gas distribution.
DOMINION - CHESTERFIELD RICHMOND, VA	Inspection and process evaluation. Assisted new control evaluation & installation. Provide training and ESP compliance support.

Partial Client List

DOMINION – SALEM HARBOR SALEM, MA	4 Power Boilers ESPs. Regular inspections and performance evaluations. Troubleshooting. Process evaluations - Fuel switching, Low NO _x burners & Urea injection.
ESSROC MATERIALS BESSEMER, PA	2 Kiln ESPs. Assisted ESP upgrades. Improved TR and rapper control operation.
LAFARGE CORPORATION FREDONIA, KS	2 Wet Process Kiln ESPs. Evaluated waste fuel process problems. Assisted specification, construction & startup of ESP rebuild. Annual Inspections.
LAFARGE, RAVENA PLANT RAVENA, NY	2 Kiln ESPs, 1 Finish Mill ESP. Rebuild and process evaluation. Specified new TR controls. Assisted equipment upgrades.
LANSING BOARD OF WATER & LIGHT LANSING, MI	Power Boiler ESP. Controls upgrade and process improvements. Modified ammonia and SO ₃ injection system. Improved gas distribution.
LONE STAR INDUSTRIES, INC. OGLESBY, IL	Kiln and Cooler ESPs. Specification to startup assistance for ESP rebuild. Annual inspections services.
LAFARGE CORPORATION FREDONIA, KS	2 Kiln ESPs. Inspection and process evaluation. Assisted equipment and TR control upgrades.
MURPHY OIL CORPORATION SUPERIOR, WI	1 Cat Cracker ESP. Evaluated process, operation and ESP design. Optimized TR and rapper controls to improve ESP performance.
US STEEL GRANITE CITY, IL	4 BOF ESPs. Identified process problems. Unit upgrades of 3 existing ESPs. Assisted specification preparation, bid review, installation & startup of 4th ESP
PENNSYLVANIA POWER & LIGHT CO. WASHINGTONVILLE, PA	2 Power boilers. System evaluation and upgrade. Assisted with the purchase and installation of 2 new ESPs.
PPG INDUSTRIES, INC. NEW MARTINSVILLE, WV	2 Power Boiler ESPs. Assisted with specification and bid review, supervised construction and startup of ESP rebuild - hot to cold side conversion.
PROCTOR & GAMBLE BUANAJUATO, MEXICO	2 Acid Mist ESPs. TR controls and process evaluation. Recommended ESP design modifications.
SERVERSTAL, NA DEARBORN, MI	3 BOF ESPs. Assisted rebuild and controls upgrade. Process evaluation and optimization.
SMURFIT LATIN AMERICA CALI, COLOMBIA S.A.	2 Recovery Boilers. Controls upgrade and annual inspections. Assisted specification of, and startup of new Power Boiler ESP.

Mini-Resumes for TRK Engineering Personnel

Thomas R. Keeler, is the President of EPSCO International, Inc. and TRK Engineering Services Inc., a consulting service groups that specializing in electrostatic precipitators and other air pollution control equipment. He is manager and principle lecturer of Precipitator Seminars, conducting nationwide seminars in electrostatic precipitators. Tom is an electrical engineer with over 30 years experience in the particulate removal field including 5 years as a field service engineer for Environmental Elements Corporation, a major precipitator manufacturer. He is an active member in several professional societies and was a panelist at the 1993 Power-Gen Americas and a speaker at the 1994 & 1998 World Mining Exposition in Chile. Tom has also been a panelist at several of the ESP/FF Round Table Forums. Tom was the editor and one of the authors of the new FMAC EPRI "ESP Maintenance Guide" completed in December 2002. This manual will set the standards for ESP maintenance for many years to come. In October 2003 Tom created the first web-based seminar series on ESP Maintenance for EPRI.

Jacob Katz, began his career in precipitation in 1950 as a field service engineer for a major precipitator manufacturer. Following 6 years in that capacity, he spent 8 years in operation and maintenance in the steel industry. Jake began a consulting service in 1964 and was primarily involved with ESP field problems in the basic industries for over 25 years. He was an active member of the Air Pollution Control Association and former chairman of it's Committee on Collectors of Particulate Matter. He has a MS in Hygiene (Major in Air Pollution) and is a Registered Professional Engineer in the state of PA. Jake is a renown expert in the field of electrostatic precipitation. He is a past lecturer with Precipitator Seminars, the author of numerous papers on the subject of precipitation and the author of the book "The Art of Electrostatic Precipitation". He serves in an advisory capacity to TRK Engineering Services.

Paul R. Bousquet, is a degreed engineer with over 25 years experience with electrostatic precipitators. He has been employed as a consulting engineer and office manager with TRK Engineering since 1994. Prior to his employment with TRK Engineering, Paul worked in many capacities for Environmental Elements Corporation (EEC), a leading precipitator manufacturer. At EEC Paul spent 8 years as an aftermarket applications / sales engineer specializing in proposal preparation, part replacement and evaluating ESPs for rebuilding, and 5 years as a field engineer.

Michael G. Scott, has been employed as a field engineer with TRK Engineering Services since 1994. Prior to that he spent 4 years with BHA/Preciptech as an ESP electrical field engineer. Mike served in the US Navy for 11 years as an Aviation Electronic Technician and earned a degree in electronics. He has a wide variety of ESP experience and is familiar with many generations of ESP controls.

Richard M. Arancio, is a degreed engineer with over 19 years experience in the Power Industry. He has been employed as a field engineer with TRK Engineering Services since 1999. Prior to that he spent 7 years servicing precipitators, baghouses and scrubbers for Fisher-Klosterman and Environmental Elements Corporation. He has a wide variety of ESP experience and is familiar with many generations of ESP controls. Rick started his career with Stone & Webster Engineering and has been involved in many aspects of Utility start-ups and modifications.

Mini-Resumes for TRK Engineering Personnel (cont.)

Francis X. Chapman, is a degreed engineer and has been involved with air pollution control since 1966. He started his career as a field engineer with the Western Precipitation Group of Joy Technologies servicing ESPs, Fabric Filters, Wet Scrubbers and Mechanical Collectors. The work included construction, inspection, startup, troubleshooting and testing. In 1971 Frank joined F. R. Kin & Associates, a company specializing in emissions testing. The work involved designing and implementing test equipment and field methodology to meet new EPA rules. In 1978 he formed his own company, Chapman Environmental Controls, Inc., to market ESP controls and to consult on air pollution control equipment in all industrial application. The company no longer markets equipment, concentrating on consulting services.

Bela Toth has 30 years experience as an Electrical Engineer. He has been working on Electrostatic Precipitators and other APC equipment for the past 23 years. Prior to working for TRK Engineering, Bela worked for Neundorfer supervising installation and start-up of pollution control equipment (specializing on electrostatic precipitators), providing training, equipment inspections and system troubleshooting. He has also provided electrical design and project engineering for upgrades and rebuilds of ESPs.

Roberto Anticevic C., is an Electrical and Industrial Engineer with 4 years experience in the servicing of electrostatic precipitators. He is the first recipient of the TRK Engineering Scholarship for Field Service Engineering, and has been part of our South American office in Santiago, Chile since 2001. Robert was recently appointed to assistant manager of Precipitator Seminars for South America, conducting seminars in electrostatic precipitators. He is multi-lingual in English, Italian and Spanish.

Kirpal Barrientos spent 8 years with GE Energy/BHA/Preciptech as an ESP field engineer. Kirpal served in the US National Guard for the past 8 years as an Aviation Electronic Technician and earned a degree in electronics. He recently completed a 12 month tour of duty in Iraq in 2009-2010. He has a wide variety of ESP experience and is familiar with many generations of ESP controls.

Alvaro Albarran, is a mechanical superintendent, educated in Santiago Chile, South America as a steelworker and heavy construction welder. Al has been with TRK Engineering since 2001 working out of the South American office in Santiago, Chile. Prior to that he spent 10 years working as a mechanical supervisor and inspector for several precipitator fabricators and construction companies in Latin America.

Gianfranco Schiattino C. is a Metallurgical Engineer from Universidad de Santiago de Chile (USACH), with 2 years of experience as a Process Engineer and 3 years later on, as Filler Metal Product Manager at INDURA S.A. with branches in Perú, Argentina, Colombia, Ecuador and Mexico. He is specialist in welding and cutting processes and different ESP applications.

EPSCO & TRK Engineering Join Forces

EPSCO International and TRK Engineering Services have joined forces to form an alliance that benefits both companies' clients.

Our Clients' requirements now run the gamut - from studies, analyses, and recommendations, to hands-on field inspections and technical direction of maintenance and construction. The joint expertise of this alliance will allow both companies to provide a complete range of services for precipitators, fabric filters, gas conditioning, FGD systems, SCR's, and Mercury control, which for most companies is becoming a combined concern to be able to meet future environmental compliance levels.

EPSCO International, Inc. (EPSCO) is an Air Pollution Control Consulting firm with more than 25 years experience, over 200 successfully executed projects, comprised of 20 plus Consultants and Associates who have personal experience with electrostatic precipitators (ESPs), fabric filters (FFs) and Operations & Maintenance of flue gas desulphurization (FGD), Selective Catalytic Reactor (SCR) systems, Flue Gas Conditioning (FGC) Systems and Mercury Control System. Tom Keeler is President of both EPSCO and TRK Engineering.

EPSCO Clients and Project List include the following locations:

PacifiCorp	Dynegy Midwest Generation	Northeast Utilities
Dominion/Virginia Electric	Alcoa World Alumina & Chemicals	Gulf Power
Duke Energy	Wisconsin Public Service	Duquesne Light
Progress Energy	Arkansas Power & Light	Mississippi Power
Cinergy	San Antonio Public Service	Star Enterprise/Texaco
Alliant Energy	Niagara Mohawk	International Paper Company
LGE/KU	EPRI	Knauf Fiberglass
TVA	Keystone Cement	China Steel
AEP	SRI	Illinois Power
Ameren UE	Alstom Power	Dairyland Power
NIPSCO, LLC	Worley Parsons	Associated Electric
Midwest Generation	Entergy	Cooperative Power Associates
Ontario Power Generation	ESKOM	Weyerhaeuser Company
NRG	Occidental Petroleum	PPG Industries
Orion Power Midwest	Iowa Public Service	Potomac Electric Power
Madison Gas & Electric	Nebraska Public Power District	Detroit Edison
Syncrude Canada	Consumers Energy	Tampa Electric
Southern Company	Pennsylvania Electric	Lurgi

Mini-Resumes for EPSCO International, Inc. Personnel

Keith M. Bradburn has a 48 year career in the air pollution control industry. He spent 21 years with Lodge-Cottrell in England and USA and served in numerous engineering and technical positions and was for many years the US technical manager for precipitators. He later spent 27 years with Flakt/Alstom as product and technology manager for dry and wet precipitators and fabric filters. Responsibilities included equipment sizing and design, proposals, product engineering interfacing, equipment performance, troubleshooting and testing. He retired from his position of Director of Technology Management at Alstom in 2010. Keith is the author of numerous papers on precipitators and fabric filters and co-author of one book on electrostatic precipitators. Keith is general manager of EPSCO.

Kenneth J. (Ken) Aken has over 40 years experience in the air pollution control business. Employed by The Fuller Co., Carborundum, and ALSTOM Power, Inc., Ken's experience has been with fabric filters, electrostatic precipitators, scrubbers, and flue gas desulfurization products, and EPC contracts. Ken's career includes positions in administration, engineering, customer service, project management, and operations.

Larry K. Boyer has 28 years experience in the air pollution control field. His experience while employed at Wheelabrator Air Pollution Control included applications, engineering, and research & development. Larry has extensive experience with electrostatic precipitators on hot-side and cold-side utility applications, and a variety of industrial applications. Construction checkout, startup, training, testing, troubleshooting, and customer maintenance planning are some of Larry's areas of expertise. Other experience includes fabric filter dust collectors, mechanical collectors, and dry FGD installations.

Richard L. (Dick) Gentile, P.E. is a structural engineer, registered to practice in several states. He is the co-founder and past President of Multitech Associates, an engineering design company specializing in air pollution control equipment. Richard has over 40 years of structural design experience, and is familiar with the mechanical and structural design of most ESP suppliers. Richard's recent activities include coordinating the engineering activities with clients and evaluating the structural effects on ESPs resulting from the addition of SCR's.

Mini-Resumes for EPSCO International, Inc. Personnel

Charles B. Barranger has over 43 years of experience in the Air Pollution Control Field as an Equipment Designer, Project Engineer, Application Engineer, Project Manager, Proposal Manager, Fabric Filter Project Manager and Manager of Application Engineering for ALSTOM. Was ALSTOM's Fabric Filter representative at ICAC and EPRI. Other areas of expertise include electrostatic precipitator conversions to fabric filters, dry/semi dry injection systems for control of SO₂, SO₃, and Hg, wet flue gas desulphurization, and combinations of these products to perform as multi-pollutant control plants. The major projects covered Coal Fired Boilers, Iron & Steel, Cement, and Waste-to-Energy plants. He has also worked in Republic of South Africa and Brazil.

Timothy (Tim) Mallory, Over twenty (20) years experience in all phases of air pollution control. As the Manager of Engineering and Applications at Southern Environmental, Tim was responsible for all designs and drawings as well as estimating and equipment sizing. As the Vice President and COO of MERRICK Environmental Technology, he was responsible for the full operations of an integrated turn key supplier. Tim's experience includes design engineering, fabrication and construction of fabric filters, wet and dry electrostatic precipitators, dry scrubbers, mercury controls, and materials handling systems.

David (Dave) Raring, Over twenty (35) years experience specializing in fog and water based dust suppression systems used primarily in the mining and power industries and the enhancement of evaporative gas cooling and conditioning systems used in pyroprocessing applications. Mr. Raring is a graduate of Lehigh University and holds a BS degree in Engineering Physics. Mr. Raring served as Vice President of Sales and Engineering for Sonic Development in the 70's, he co-founded EnviroCare Inc. in the early 80's, and he formed The Raring Corporation in 1985.

David (Dave) Nelson, Chemical engineer, with over 30 years experience in the design, start up and operation of sulphuric acid plants. After 12 years of experience with Panamerican Consulting Internacional, a Monsanto licensee, in the design, construction and Start up of chemical plants, particularly sulphuric acid, in Colombia, Venezuela, Canada, Chile, Indonesia, etc. became an independent consultant in the area of sulphuric acid, which includes revamp studies, operation, auditing and construction.

PRECIPITATOR SEMINARS

PRECIPITATOR SEMINARS offers both public and in-house seminars in electrostatic precipitation. The primary objective of these seminars is to teach attendees how to better evaluate, operate, maintain and improve the performance of existing precipitators. Emphasis is on developing a practical understanding of the basic factors and determinants of precipitator operation and performance. The seminars are especially suited for hands-on personnel, plant engineers, and operation and maintenance supervisors. They are also valuable to personnel involved with evaluating and purchasing new equipment. Topics include:

- **Precipitator Fundamentals**
- **ESP Designs and Applications**
- **Precipitator Power Supply Theory and Panel Meter Interpretation**
- **Rapping Concepts**
- **Practical Look at ESP Electrical Concepts**
- **Particle Resistivity**
- **Process Factors**
- **Gas Distribution**
- **Stack Opacity Concepts**
- **Operation and Maintenance Techniques**
- **Field Evaluation of ESPs**
- **Improving ESP Performance**
- **Testing Methods**
- **Gas Conditioning: Methods and Techniques**
- **SOx and NOx Control: Effects on ESP**

PRECIPITATOR SEMINARS principle lecturer is Thomas Keeler who has lectured in the past with Jacob Katz, the late Herbert J. Hall, and Robert Crynack. All lecturers are internationally recognized authorities on electrostatic precipitators. They have served the industry in many capacities including research and development, technical management and as consultants. They have written widely on the subject and have conducted lectures and seminars throughout the world. Seminar attendees are provided a manual(s) and a copy of the book, *THE ART OF ELECTROSTATIC PRECIPITATION* by Jacob Katz. The present and past lecturers have over a 100 combined years of experience which has gone into the production of this manual.

PRECIPITATOR SEMINARS offers seminars several times a year. In-house seminars, tailored to your site and application, can also be arranged. PRECIPITATOR SEMINARS is managed by TRK Engineering Services, Inc. For additional information, or to obtain a brochure on upcoming seminars, contact:

PRECIPITATOR SEMINARS
95 Clarks Farm Road
Carlisle, Massachusetts 01741
(978) 287-0550 Tel, (978) 287-0569 Fax

PRECIPITATOR SEMINARS

**THE FOLLOWING IS A PARTIAL LIST OF USA COMPANIES THAT
HAVE PARTICIPATED IN THE IN-HOUSE SEMINAR SERIES OVER
THE PAST TWENTY YEARS.**

ALLEGHENY POWER COMPANY
BALTIMORE GAS & ELECTRIC COMPANY
CAROLINA POWER & LIGHT
CENTRAL ILLINOIS LIGHT
CINCINNATI GAS & ELECTRIC COMPANY
COMMONWEALTH EDISON
CONSOLIDATED PAPER
DOMINION
DUKE POWER
DYNEGY MIDWEST GENERATION
ESSROC CEMENT
GEORGIA PACIFIC
LAFARGE CEMENT
LONESTAR CEMENT
KERR-MCGEE CORPORATION
MARTIN-MARIETTA COMPANY
TEXAS UTILITIES
WISCONSIN ELECTRIC POWER

PRECIPITATOR SEMINARS

THE FOLLOWING IS A PARTIAL LIST OF INTERNATIONAL COMPANIES THAT
HAVE PARTICIPATED IN THE IN-HOUSE SEMINAR SERIES OVER
THE PAST TWENTY YEARS.

ALBERTA PACIFIC FOREST INDUSTRIES, CANADA

ALBERTA POWER LTD, CANADA

CELULOSA ARAUCO, CHILE

CIA MINERA DISPUTADA, CHILE

CODELCO CHUQUICAMATA, CHILE

CEMENTOS DE VALLE, COLOMBIA

CEMEX, COLOMBIA

CMPC PACIFICO, CHILE

CODELCO VENTANAS, CHILE

INCO LTD, CANADA

INTERNATIONAL PAPER, BRAZIL

LAFARGE CEMENT, CANADA

PROPAL, COLOMBIA

SMURFIT LATIN AMERICA, COLOMBIA

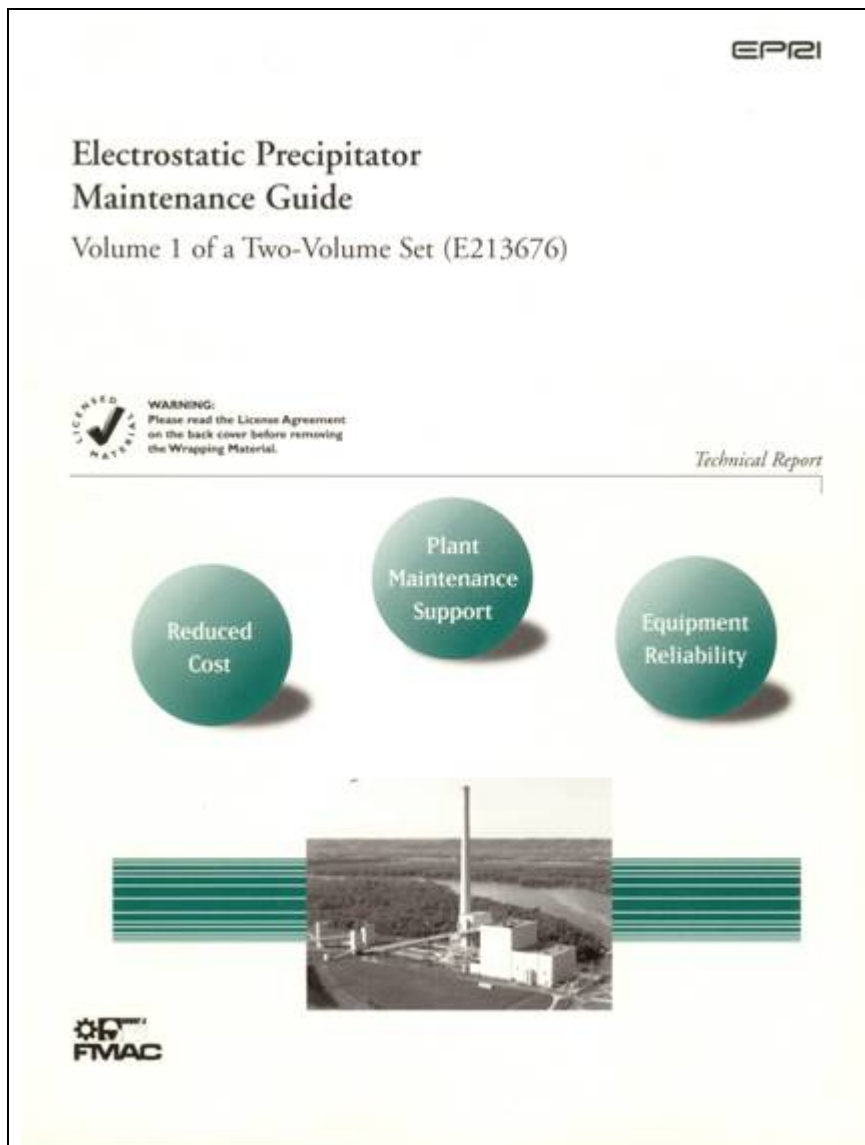
PROCTOR & GAMBLE, MEXICO

TRANSALTA UTILITIES CORP, CANADA

EPRI's ESP Maintenance Guide

TRK Engineering completed **EPRI's New "ESP Maintenance Guide"** in 2003 authored by: Thomas Keeler, Jacob Katz, Robert Crynack and Paul Bousquet

The "Electrostatic Precipitator Maintenance Guide" is a 675 page manual directed towards electrical and mechanical maintenance personnel who maintain the electrostatic precipitator (ESP) and troubleshoot problems that occur during operation. The intent of this guide is to give plant personnel guidelines for maintaining an ESP for reliable operation. Final report is available on-line to EPRI members - www.epri.com - Report #1007436



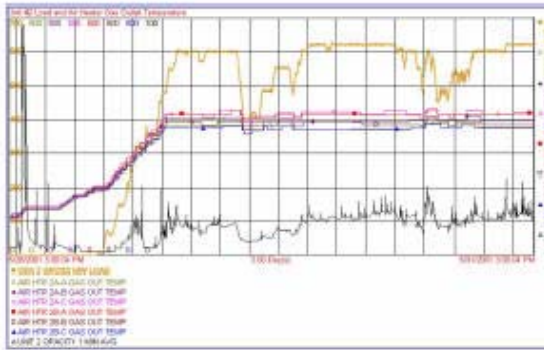
Other books available from TRK Engineering (call for pricing):

“Industrial Electrostatic Precipitation” by Harry J. White

“The Art of Electrostatic Precipitation” by Jacob Katz

REMOTE MONITORING

TRK Engineering has been offering remote monitoring for our clients for over 10 years and at the request of our clients has developed a program to meet the new regulations that builds on our past experience of field work and Remote Monitoring.



Weekends, holidays, the middle of the night, the need for support never occurs at convenient times, and everyone is aware by now, the Environmental Protection Agency (EPA) has promulgated the Compliance Assurance Monitoring (CAM) rule, placing greater demands on compliance issues and plant resources.

How can you find service support when you need it?

It is only a phone call away. The engineering staff of TRK Engineering Inc. specializing in ESP start-up and operation, including a solid background in process condition. TRK Engineering's Remote Monitoring Service can make your ESP modem connection a valuable component of your maintenance team. By using a modem on your system, information can be used by TRK Engineering to reduce any problem situations to a minimum occurrence, support a preventative maintenance program, as well as add credibility to Title V/CAM reporting.

“Our objective is to make sure that the control device operator has the support required for the ESP control device, as well as the production process. We want him to be ready for a compliance test every day.”

Think about it, you can save on travel cost, maximize production, and use the reports as part of your semiannual reporting. We can offer an array of services covering AVC and process troubleshooting to ESP computer performance modeling. Need assistance with your CAM reporting? The electrostatic precipitator (ESP) performance model will provide a useful mechanism for evaluating the performance of ESP's under the CAM rule of your Title V permitting.

New regulations require that every source must have an **operating permit**. Permits must contain a **Compliance Assurance Monitoring (CAM)** plan that describes how the source will comply with applicable requirements. Operating permits cannot be issued for more than 5 years. Permits must require monitoring and the reporting of emissions, and incorporate emission limitations and other requirements of the applicable state implementation plans. **To meet the new regulations make Remote Monitoring a part of your CAM plan**



The Air Pollution Control Network website provides end-users of air pollution control equipment with an unbiased source of information to support the purchase, understanding and effective use of their equipment.

EVENTS CALENDAR
Find out about
Industry meetings
and seminars

Updated Monthly

BOOKS AND REFERENCES
A great resource

THIS OLD BOX
Each month read
3 new technical papers
and practical articles
about the operation and
maintenance of
electrostatic

Updated Monthly

SWAP SHOP
The place to
sell your used
equipment and
recoup your initial
investment
or
buy used equipment
and minimize your
maintenance costs
or
locate equipment in

Ongoing Updates

NEW RELEASES
Keep up on
Industry
announcements

Ongoing Updates

EMPLOYMENT OPPORTUNITIES
Looking for a job?
Want to fill a

Ongoing Updates

DIRECTORIES
Find people who
support the air
pollution control
industry:
CONSULTANTS
OEMs
REBUILD CO.

PROFESSIONAL ORGANIZATIONS

Anything Missing?
Check Us Out and Let Us Know...
trkeng@apcnetwork.com

The Air Pollution Control Network was created by TRK Engineering Services, Inc.
a consulting service group specializing in electrostatic precipitators
and their application in a wide range of industries.
TRK Engineering Services • 95 Clarks Farm Road • Carlisle, MA 01741 • Tel: 978-287-0550 • Fax: 978-287-0569



ACORD**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

02/22/2010

PRODUCER (781)273-1630 FAX (781)270-4047
 MacDonald & Vaccaro Ins Agency, Inc.
 9 Bedford Street
 P.O. Box 799
 Burlington, MA 01803-5799

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED TRK Engineering Services, Inc.
 95 Clarks Farm Road
 Carlisle, MA 01741

INSURERS AFFORDING COVERAGE

NAIC #

INSURER A: Ohio Casualty

INSURER B: Peerless Insurance

INSURER C:

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADDL LTR	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab.	BK052506558 BLANKET ADDITIONAL INSURED WHEN REQUIRED BY WRITTEN CONTRACT.	03/01/2010	03/01/2011	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPOP AGG \$ 2,000,000
		GENL AGGREGATE LIMIT APPLIES PER: POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC				
B		AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	BA1989767	03/01/2010	03/01/2011	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
A		EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION \$	US052506558	03/01/2010	03/01/2011	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$ \$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under SPECIAL PROVISIONS below	WC8610354 NO	03/01/2010	03/01/2011	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
		OTHER				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER

UNSPECIFIED

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL _____ DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Robert Gilliatt/BOBG

Robert W. Gilliatt