

Turn Key Consulting:

A 3-phase Approach to Consulting

Turn Key Consulting:

- Phase 1 - Online Assessment
- Phase 2 - Offline Investigation
- Phase 3 - Analyses & Recommendations

EPSCO Can Help You!

- ✓ Analyze and define your PM emission problems and alternatives for ESPs, FFs, & Scrubbers
- ✓ Inspect and report on the condition of your existing equipment
- ✓ Engineer, specify equipment, evaluate suppliers; manage your project through startup

With **300+** completed projects
25+ years of experience
10+ expert consultants

3-Phase Approach

- ◆ **Online Assessment:** EPSCO gathers data on allowable emissions, operation of boiler, ESP, FF, FGD, material balances, fuel/ash sources, ash removal systems, historical operation, inspection & test data, etc... to compare real-time performance of APC equipment against design or theoretical performance expected.
- ◆ **Offline Assessment:** EPSCO, whenever outage time allows, will perform mechanical, electrical and structural inspections of the ESP, to evaluate its physical condition, and identify whether there are any obvious flaws in the component hardware which are responsible for any deviations from design or “theoretical” performance.
- ◆ **Analyses & Recommendations:** EPSCO will then analyze all data collected, identify, evaluate, cost, and make recommendations to upgrade the ESP to meet the users’ particulate emissions objectives.

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EPSCO Senior Consultants

Thomas Keeler

President of EPSCO International & TRK Engineering Services. EE with over 30 years experience in APC equipment and editor & co-author of EPRI's ESP Maintenance Guide.

Ken Aken

40+ years experience with Flakt, ABB, ALSTOM in applications, PM, Project Director.

Charles Barranger

40+ years in turnkey design, supply and installation of EPSs, FFs, FGD systems, and SO₃, NO_X, & HG control systems.

Tim Mallory

25+ years experience with fabric filters, wet and dry ESPs, dry scrubbers, mercury controls and materials handling systems.

Keith Bradburn

General Manager of EPSCO International. 48 years experience in APC equipment with 21 years at Lodge-Cottrell in England & USA and 27 years with Flakt/ALSTOM.

Larry Boyer

30+ years experience with Wheelabrator in applications, engineering, field services for ESPs & FFs.

Dick Gentile

40+ years in ESPs as Structural and Mechanical Professional Engineer, licensed in 21 States; 28+ years with Multitech concurrent with 20+ years with EPSCO.

Dave Raring

35+ years experience with fog and water based dust suppression systems and evaporative gas cooling and conditioning systems.

Turn Key EPSCO Project List

Arkansas P & L

Hot/cold conversions at
White Bluff 1 & 2,
Independence 1 & 2

Dupont

Delisle Plant Unit 1 & 2
ESP Rebuild & Upgrade

IPALCO

Phase I, II, III work at
Perry K, Stout 5, 6, 7

Pacificorp

Phase I, II, III studies at Hunter 1 & 2.
Huntington 1 & 2, Naughton 3,
and Phase I and II at Carbon 2

San Antonio P.S.

Hot/cold conversion of ESP at
J.T. Deely 1 & 2

TVA

Colbert 1-4, coal switching with
Phase I, II, III projects

Duke Energy

Structural inspections and evaluations
of ESPs at Belews Creek, Cliffside,
Marshall, and Riverbend

Entergy

White Bluff Units 1 & 2
ESP Performance Upgrades

Niagara Mohawk

Phase I, II, III studied for
upgrade of Huntley #66

Wisconsin Public Service

Phase I, II, III upgrades of
ESPs with FLS panel plates and RDEs
at Pulliam 5 and Pulliam 8

Progress Energy

Crystal River Units 4 & 5
ESP Rebuild & Upgrade

Transalta Centralia

ESP Units 1 & 2 Upgrades
(AVC, rapper, gas flow modifications)