

APC Health Check

For refineries, gas plants, and oil and gas operators that paid for advanced process control and want to know, in dollars, what it should be earning.



What you get in 2–4 weeks

Defined deliverables from your historian data and controller files. Read-only, fully remote, under a mutual NDA.

Service factor review

Uptime by controller, and the real reasons operators turn it off.

Constraint activity

Whether controllers push the limits that make money, or sit clamped.

Model quality

Degradation since commissioning, turnarounds, catalyst and feed changes.

Benefits gap

The original benefits case versus what is captured today, in dollars per year.

Prioritized fix list

Retune, re-identify, re-scope, or retire, ranked by dollar value.

Path forward

Fix existing APC, add MPC, or adopt an AI optimizer, plus a sustainment plan.

How the work runs

Week 1	Kickoff, mutual NDA, data request, historian and controller exports.
Weeks 2–3	Analysis, short operator and engineer interviews, benefits gap estimate.
Week 4	Readout with the prioritized fix list, budget estimates, and a recommended next step.

Why ROI

Est. \$9M per year

CO₂-EOR facility modernization with redundant DCS, SIS, and multivariable APC. Payback under 4 months.

Est. \$1–3M+ per year

400 MMcf/d cryogenic gas plant MPC business case. About a 6-month payback, over 100% first-year ROI.

Every platform

AspenTech DMC3, Emerson DeltaV PredictPro and SmartProcess, Honeywell Profit Suite, Yokogawa, and AI-based optimizers.

25+ years

Honeywell, Yokogawa, the Emerson channel, and Rockwell. Ran a profitable Honeywell service P&L.

Estimates from pre-project assessments Scott led in 2025–26. Customer names withheld.

Terms

Investment: fixed fee, quoted after a 20-minute scoping call.

Next step: optional AI Optimization Benefits Study (fixed fee or gain-share) and independent oversight through commissioning and post-audit.

Working style: remote and read-only; on-site visit optional.

Independence. ROI does not resell APC software or integration labor, and never advises on a product it is paid to sell.

Who it's for

- Refineries running APC on crude, FCC, hydrotreaters, or reformers
- Gas plants and compression with DMC3, DeltaV, or Profit Suite MPC
- Sites where APC is in manual, clamped, or overdue for a retune