

Qualification of ABB gas chromatograph analyzer (PGC5000) in EQUATE, Kuwait



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Introduction

Equate is the single operator of a fully-integrated world-scale manufacturing facility producing over 5 million tons annually of high quality petrochemical products that include Polyethylene, Styrene Monomer, Ethylene Glycol, Polypropylene and Paraxylene. Equate has more than 140 PGC from Siemens installed at various applications during the last 10 years.

PGC5000 has been connected to an Advanced Process control APC loop in the most complex application in the Ethylene plant in parallel with Siemens GC since May 2014. Equate had carried out several extensive tests on PGC 5000 in sync with Siemens Maxum GC and was fully satisfied with the PGC5000 performance. As a result of this, Equate has included ABB in their approved Vendor manufacturers list and will invite ABB to bid on replacement of approx. 40 to 70 Siemens GC over the next few years. This gives us a chance to break into this single source domain.

Equate is an international joint venture company between The Dow Chemical Company (DOW), Petrochemical Industries Company (PIC), Boubyan Petrochemical Company (BPC) and QPIC

Measurement made easy

Quote from Equate process automation group leader:

“We are pleased to inform that ABB GC model PGC5000 demo unit has been put in service since May 2014 for 6 months in the Ethylene unit and had undergone several extensive tests at our end. We are happy to inform you that we are satisfied with the GC performance. We want to thank the UAE/Kuwait Team and Lewisburg Team for their active participation and support in accomplishing this milestone.”

Application

PGC5000 was measuring:

- Propyne : 0 – 15000 PPMV
- Propadiene: 0 – 15000 PPMV
- 1,3-Butadiene: 0 – 40 PPMV
- 1-Butene: 0 – 10 PPMV
- Iso -Butane: 0 – 2 PPMV
- n-Butane: 0 – 2 PPMV

For more information

Further details of ABB Measurement & Analytics products are available for free download from: www.abb.com/measurement

or by scanning this code:



ABB Engineering Technologies Co (KSCC)
Measurement & Analytics

Al-Ghunaim Tower
5th Floor, Al- Qibla Area
Abu Baker Al-Sadique Street
Kuwait City 13043
Kuwait
Tel: +965 222 77 888
Fax: +965 222 77 800

abb.com/measurement



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