

Contract Services – Process Analytics

Maintain systems and equipment operation at peak performance

ABB delivered Preventive and Corrective maintenance services based on Life Cycle Management deliver on-site advanced diagnostic and repair practices to help maximize the performance of your equipment.



Benefits

- Preventive Maintenance schedules based on Life Cycle Management
- Consumables included

Product Life Cycle Management

Product life cycle management maximizes the value of equipment and maintenance investments by ensuring spare part and competence availability throughout the life cycle.

- enabling efficient product support & maintenance for improved reliability
- adding functionality to the initial product by following the upgrade path
- providing a smooth transition to new technology at the end of a product's lifecycle
- helping the end user to decide when an upgrade, retrofit or replacement is required

Preventive Maintenance

A preventive maintenance schedule consists of regular inspections and component replacements according to the product specific maintenance schedule. Maintenance schedules are based on ABB's decade's long experience of manufacturing and maintaining its products. Adopting preventive maintenance schedules reduces the risk of failure and increases the lifetime of the product, thus lowering the overall operational costs. Regular predefined preventive maintenance facilitates budgeting. Preventive maintenance can be carried out on site by certified field service engineers who utilize preventive maintenance kits for performing all scheduled maintenance tasks. Engineers are factory trained and have the latest maintenance know-how and experience. Preventive maintenance kits contain all the genuine parts defined by a maintenance schedule. They are more economical to purchase compared with purchasing the spare parts separately.

Maintenance schedule – ACF - NT System

Maintenance schedules are product specific and include consumables.

Contract Services

A basic contract includes:

- Minimum of 8 hours on-site time. Travel time and travel related expenses are not included and invoiced separately
- Maximum of 1 ACF – NT System supported per contract day
- **8 hours \$1,920**

	Task	Daily	Weekly	Monthly	Quarterly	Bi-Annual	Annually	Comments
	ACF - NT System - Routine Maintenance							
1.00	General							
1.10	Visual Inspection HMI Display		Customer			ABB		
1.11	Visual Inspection Probe Temperature Controller		Customer			ABB		
1.12	Visual Inspection Sample Line Temperature Controller		Customer			ABB		
1.13	Compressed Gases in Cabinet		Customer			ABB		
1.14	Visual Inspection Pressure Regulators - J11, J12, J13, J08		Customer			ABB		
1.15	Verification of ACF-NT gas flows		Customer			ABB		

2.00	Probe Box							
2.10	Replace Probe Filter				Customer	ABB		
2.11	Check tubing connections					ABB		
2.12	Check Heater Sample Gas Line & Ring Heater					ABB		
2.13	Check Compressed Air Tubing					ABB		

3.00	Calibration							
3.10	Manual Calibrate O2			Customer		ABB		
3.11	Manual Calibration TOC			Customer		ABB		
3.12	Calibration with Component Gases					ABB		
3.13	Calibration with HOVACAL					ABB		

4.00	ADVANCE OPTIMA							
4.10	Save SMT file					ABB		
4.11	Save TCT file					ABB		

5.00	MultiFID-14							
5.10	Check Manual Calibration		Customer			ABB		
5.11	Check Offset/Amplification Drift			Customer		ABB		
5.12	Check Pressures and Flow Detectors		Customer			ABB		
5.13	Replace Protection Filter					ABB		
5.14	Replace Sample Gas Inlet filter					ABB		
5.15	Replace 1/8" Air Filters					ABB		
5.16	Replace Detector Sealing Set					ABB		
5.17	Replace Injector O-Rings					ABB		
5.18	Replace Sample Gas Sealing Set					ABB		
5.19	Check/Replace Nozzle Holder					ABB		
5.20	Check/Replace Combustion Air Nozzle					ABB		
5.21	Check/Replace H2 Nozzle					ABB		
5.22	Check/Replace Sample Inlet Nozzle					ABB		
5.23	Check/Replace Ignitor					ABB		
5.24	Check/Replace Injector					ABB		

6.00	SC and ASP block							
6.10	Check Manual Calibration		Customer			ABB		
6.11	Check Offset/Amplification Drift			Customer		ABB		
6.12	Check Pressures and Flow Detectors		Customer			ABB		
6.13	Replace 1/8" Air Filters					ABB		
6.14	Replace Injector O-Rings					ABB		
6.15	Replace Filter Insert, 1 Micron					ABB		
6.16	replace O-Rings for Filter Insert					ABB		
6.17	Replace O2 Sealing Set					ABB		
6.18	Replace Sealing Set for Bridge					ABB		
6.19	Replace Gasket for SC Block					ABB		
6.20	Clean/Replace Injector					ABB		
6.21	Clean/Replace 1 Micron Metal Filter					ABB		
6.22	Check Teflon and Stainless Steel Tubing Connections					ABB		
6.23	Check/Replace O2 Sensor					ABB		
6.24	Check/Replace Nozzles					ABB		

Contract Services –

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