

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 decades 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 – PPA3402/3502 MultiWave Photometer

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 4 devices supported per contract day
- **8 hours \$1,920**

| | Task | Daily | Weekly | Monthly | Quarterly | Semi-Annually | Annually | Comments |
|------|--|-------|--------|---------|-----------|---------------|----------|-----------|
| | | | | | | | | |
| | 3502/3402 MultiWave - Routine Maintenance | | | | | | | |
| 1.00 | Cabinet Inspection | | | | | | | |
| 1.10 | Visual inspection of display, cabling | | | | | | ABB | |
| 1.11 | Purge inspection | | | | | | ABB | |
| 2.00 | Chopper Motor | | | | | | | |
| 2.10 | Chopper Motor - Inspect, replace if needed | | | | | | ABB | 4-5 Years |

| | | | | | | | | |
|------|---|--|--|--|--|--|-----|--|
| 3.00 | Source | | | | | | | |
| | | | | | | | | |
| 3.10 | Platinum (IR), inspect and replace if needed | | | | | | ABB | 10-15 years |
| 3.11 | Tungsten (NIR), inspect and replace if needed | | | | | | ABB | 4-5 Years |
| 3.12 | Deuterium (UV), inspect and replace if needed | | | | | | ABB | 1-1.5 Years, limited supply, will be replaced with LED upgrade for chlorine. |
| 3.13 | UV LED lightsource upgrade | | | | | | ABB | 5 Years life expectancy |

| | | | | | | | | |
|------|---|--|--|--|--|--|-----|-----------|
| 4.00 | Detector | | | | | | | |
| | | | | | | | | |
| 4.10 | Detector Check Voltages and replace if needed | | | | | | ABB | 10+ Years |

| | | | | | | | | |
|------|---|--|--|--|--|--|-----|--|
| 5.00 | Filter | | | | | | | |
| | | | | | | | | |
| 5.10 | Filter inspection (replacement not normally required) | | | | | | ABB | |
| 6.00 | Cell | | | | | | | |
| 6.10 | Visually inspect cell, o-rings and windows, clean or replace if necessary | | | | | | ABB | |
| 7.00 | Fiber Optics | | | | | | | |
| 7.10 | Inspect cables, replace if necessary | | | | | | ABB | |

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Contract Services –

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