

LONGWALL SUPPORT

As electrical equipment OEMs Ampcontrol know the operational value of what we design and manufacture. This is why we are committed to providing early intervention and best practice maintenance procedures to minimise disruption and ensure the availability of your longwall systems.

Our onsite service teams provide time phased longwall electrical maintenance plans and corresponding inspection documentation to ensure the highest safety standards are maintained and compliance to statutory requirements of AS2290, providing peace of mind your equipment will run as it is supposed to when it's supposed to.

Typical support plans include a range of testing, maintenance, overhaul and site services.

Pre-production inspection - Code C

Pre-production inspections are completed using Ampcontrol or customer documentation as per AS2290 and include:

- Internal inspection of enclosures for signs of heating, loose connections and components, moisture, insulation deterioration etc
- External inspection of enclosures for damage to labelling and signage, windows, seals, operators interfaces etc
- Statutory testing of protection functions
- Protection audits and setting updates
- HT relay testing
- Insulation resistance and earth continuity testing

Installation assistance

Our onsite technicians can install or provide assistance to help your team install a range of electrical equipment including:

- Face signal systems
- Field I/O systems
- Monorails
- Lighting systems
- Gas monitoring systems

Commissioning assistance, support and coordination

Our onsite team can commission and install a range of longwall electrical systems using Ampcontrol or customer documentation including:

- iMAC / VoiceCom systems
- Gas systems both Ampcontrol Gasguard or other
- Lighting systems
- Drive commissioning (field I/O, sequence, direction etc)
- Electrical supply systems (sub, DCB, CME supplies)
- Networks systems (copper and fibre)
- Pump system commissioning

Periodic internal inspection

Periodic inspections can be undertaken using Ampcontrol or customer documentation and include:

- Inspection of enclosure internals for signs of heating, loose connections and components, moisture, insulation deterioration etc
- Inspection of enclosure externals for damage to labelling and signage, windows, seals, operators interfaces etc
- Statutory testing of protection functions
- Protection audits and setting updates

System tests

System test ensure correct operation of critical electronic systems and include:

- Testing of gas detection systems
- Testing of iMAC and VoiceCom systems
- Testing of SIL systems (functionality only)
- Review of fault logs / capture of data as required



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Mid block and end of block inspections - Code C

Completed in conjunction with periodic inspections both the mid and end block inspections review the enclosure internal and external components as per AS2290 including:

- Inspection of enclosure internals for signs of heating, loose connections and components, moisture, insulation deterioration etc
- Inspection of enclosure externals for damage to labelling and signage, windows, seals, operators interfaces etc
- Statutory testing of protection functions
- Protection audits and setting updates
- Insulation resistance and earth continuity testing

End of block inspections are supplemented with a scoping document listing potential works to be completed at the completion of the block.

End of block upgrades and repairs

Works required are identified through the inspection process and implemented across the longwall production period.

Depending on the works required upgrade and repairs can be completed onsite in situ or in Ampcontrol's workshops in QLD and NSW.

SIL system proof testing and validation

Safety systems with SIL ratings require periodic proof and validation testing. We can complete this testing in our workshops or in situ underground as required for your system.

- Time phased proof testing
- Fault diagnostics and repairs (including re-validation)



Pre-overhaul and overhauls

Exd enclosures require an AS3800 overhaul every four years.

Our site service teams conduct pre-overhaul inspections 12 months before the enclosure is due for overhaul and repeat this process at the time the AS3800 overhaul is due. The results obtained from these two audits can be compared to help determine the level of deterioration of the explosion protected properties of the enclosure. These results can be used as a guide to determine the continued safe operation of the Exd enclosure as per AS2290.1 or if an overhaul is required.

The pre-overhaul audits also help to develop the scope of the AS3800 overhaul.

AS3800 overhauls

Ampcontrol operates fully certified AS3800 workshops to complete overhauls as per the statutory requirements for hazardous area protected equipment. Our certification allows us to complete overhaul works on all OEM equipment.

Our overhaul process is certified to meet required standards by external auditing authorities.

At the same time as your AS3800 overhaul we can also upgrade, repair and review your equipment to improve its overall operational availability.

