

FACTORY ACCEPTANCE TESTING

DS-194 Issue 01



Thank you for your interest in Zitel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries. As part of our standard QA QC procedures a comprehensive FAT is 'staged' at our factory in Nottingham to ensure that they meet specification once installed on site.

Please do not hesitate to contact us for further information on our products we look forward to working with you on a project

ZITTEL FAT

*Systems tested to client approved schedules-
comprehensive input and output verification.*

*Cause and effect compliance with technical
specification / standards.*

*Mechanical and electrical compliance with approved
drawings and documentation.*

All equipment produced by Zitel is tested prior to dispatch; systems are staged at our manufacturing facilities in Nottingham to replicate as closely as possible the final cable installation on site. This is executed in conjunction with the project documentation to ensure compliance with issued installation drawings.

Prior to FAT a detail test procedure is issued to the client and then, in addition to our normal product testing, an overall system check is executed.

System testing takes place several days or weeks in advance of the FAT (depending on the size of the project) during which time the equipment is configured and cross checked to the purchase order specification.

Once in house testing is completed clients are invited to witness a final acceptance test during which the equipment is exercised in accordance with the detail approved test procedure previously issued.

Typical WFAT duration is one day to several days depending on the complexity of the system under test. Following successful FAT equipment configuration files and hardware serial numbers are preserved and backed up for possible future reference (delivery of spare parts, site support, future site expansions / modifications). For more complex systems that are integrated with other packages a

secondary integrated system FAT (ISFAT) is executed to prove correct operation / communications between different system packages.

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Mariner is a UK North Sea platform, pictured here is the project team reviewing the interface between our MT50-20 drillers talk back package and the Motorola TETRA system during witness FAT. For this project we delivered a solution that integrated both radio and talk back into a single communications system.



Zitel project director (left), Nigel Cumberland, makes final checks on ZEST high integrity dual PAGA system destined for an FPSO operating in South American waters. General Manager Nick Blach and Alan Gibson (Engineering) photo right, prepare staging for witness FAT.

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Preparing a network PAGA for FAT, the system is fully load tested by incandescent lamps for a period of 1 hour continuous operation. This is a very severe test as, unlike the loudspeakers they will ultimately drive on site, the lamps present an almost *short circuit* to the amplifier 100 Volt line outputs.



During the equipment soak testing wild heat emission is carefully monitored, recorded and archived in the project manufacturing files. The source input for the test is the Abandon site alarm which is arranged to sound continuously for the duration of the full load soak verification check. Following successful conclusion of this test the equipment is ready for final witness testing and acceptance.

For more information regarding Zitel FAT testing regimes contact Zitel sales.

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