



> Services

Audio Systems

Complete detailed Audio system planning and installation information. The audio system can be multi-level, and either a point-to-point system or one using the techniques of central distribution frames. Including:

- Schematics
- Time code distribution
- Equipment layouts
- Level monitoring
- Jackfield layouts
- Stereo phase monitoring
- Cable schedules

Building Design Liaison

Liaison with architects and builders to provide the correct building in which to install a broadcast system is a key service provided by TSL. Too often building design is finished before the TV design is started. This can lead to higher installation and running costs and an unsatisfactory overall facility.

Cable Schedules

TSL have developed a computer based cable schedule database system. This database provides the installation team with the information they need, and provides the customer with details of all cables in the installation for future use.

Commissioning

On completion of the installation, the system will be commissioned and checked out both for technical performance and operational requirements. On completion of the commissioning the customers' operators will be able to operate the system.

Consultancy

TSL provide consultancy services so that clients can identify their current and future requirements. Consultancy can assist in detailing the technical and financial scope of potential projects. TSL have, for example, acted as broadcast consultants to the Irish and Scottish parliaments

Equipment Acceptance Tests

Every installation includes various major items of equipment. TSL provides the service of carrying out independent testing of the equipment at either the customers' or the manufacturers' premises, and then providing the customer with a detailed report on the outcome of the tests.

Drawings and CAD

All drawings used by TSL are produced using the latest computer aided design (CAD) techniques. This system produces high quality prints and allows update and modification of large numbers of

drawings simultaneously. Drawings up to A1 size and 8 colours can be produced in-house.



> Services

Furniture Design and Manufacture

The overall efficiency and durability of any installation is often determined by the design and the quality of manufacture of control desks and monitor stacks. TSL is able to produce designs to enhance the appearance of control rooms and still provide the required ease of operation.

Installation Technicians

In addition to engineers TSL can provide the necessary installation technicians to ensure that the project is installed and commissioned to the required high standard. TSL will manage and coordinate any manufacturer specialists who may be required during particular phases of a project

IT and Data Networks

All broadcast projects now involve data networks and broadcast IT facilities. TSL specialises in combining broadcast and IT technology to offer innovative solutions.

Installation Wiremen

TSL have a team of wiremen who are very experienced in broadcast installations. Good installation wiring makes all the difference to the way an installation looks and works. A well managed installation allows reliable system expansion and maintenance throughout the system lifecycle.

Power and Earthing Systems

The design and installation of the technical mains distribution system within the installation, taking into account the various statutory requirements pertaining to the site. Also the design and installation of an appropriate technical earthing system for the facility.

Precision Pre-Fabrication

All sizes of systems can be built at TSL for acceptance and testing then and transported to the customer's facility for final installation and commissioning. This technique saves time on site and reduces costs.

System Performance Testing

On the completion of the installation systems, performance tests will be carried out to the customer's specification. A full test report will form part of the final system documentation.

Video Systems

Complete detailed video planning of both analogue and digital systems, from the initial concept to the preparation of full installation information which include:

- Video schematics
- Equipment layouts

- Patch panel layouts
- Cable schedules
- System timing and equalisation
- Technical monitoring
- Operational monitoring
- Pulse distribution and equipment reference signal requirements
- Test signal distribution