

Weld Inspection and Training



Welding inspection and monitoring from Orbit International Survey Services LLC

Welding is fabrication or sculptural process that joins materials, usually metals or thermoplastics, by causing fusion, which is distinct from lower temperature metal-joining techniques such as brazing and soldering, which do not melt the base metal. In addition to melting the base metal, a filler material is typically added to the joint to form a pool of molten material (the weld pool) that cools to form a joint that is usually stronger than the base material. Pressure may also be used in conjunction with heat, or by itself, to produce a weld.

Why use welding inspection and monitoring from ORBIT?

To ensure that the welding process were done as per the client requirement and standards. Our welding senior inspectors have proven records in inspection and monitoring activities in oil and gas sections.

- Avoid expensive repair costs and down time due to welding failure.
- Determine the cause of welding failure.

PURPOSE

Welding inspection activates monitored contiously to achieve the desired sound weld as per the standards. Welding parameters, such as joint design, position, base metals, electrical characteristics, filler metals, technique, shielding, preheat, and post-weld heat treatment are all detailed in the WPS document.

OPERATION AND APPLICATIONS:-

Main application of welding of piping interconnection in refinery construction and power plants. The weld metal has been shown good resistance to the environmental condition.



Inter pass temperature monitoring

Welding inspection and training

- ORBIT also conducts periodic quality control at contractors welding activities to achieve the standards.
- Welder and welding faculty
- Welding equipment & inspection instrument.
- Calibration certificate of welding equipment & inspection instrument.
- MTC of material and consumable.



Welding inspection

OUR SERVICES

We are one of the prominent company which established its roots in following welding related activities in oil and gas sections.

Periodic technical inspection:-

- Material inspection
- MTC review and endorsement
- Consumable verification
- Welding equipment inspection
- Calibration verification of all testing equipment and machines.
- Monitoring all the activities and variable which affect the properties of sound welding

Testing process:-

- Temperature monitoring
- Measurement tools
- Welding machines
- Consumables (electrodes)
- Heating torches and set ups
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Non-destructive examination

- Radiography
- Ultrasonic examination
- Magnetic particle examination
- Penetrant Testing
- Eddy current testing



Laying the pipe for welding

Reference standards:

SP-1025	Welding specification of sour service
API 1104	Pipeline welding specification
ASME SEC V	Non-destructive testing examination