

# Computed Digital Radiography



## Computed Digital Radiography

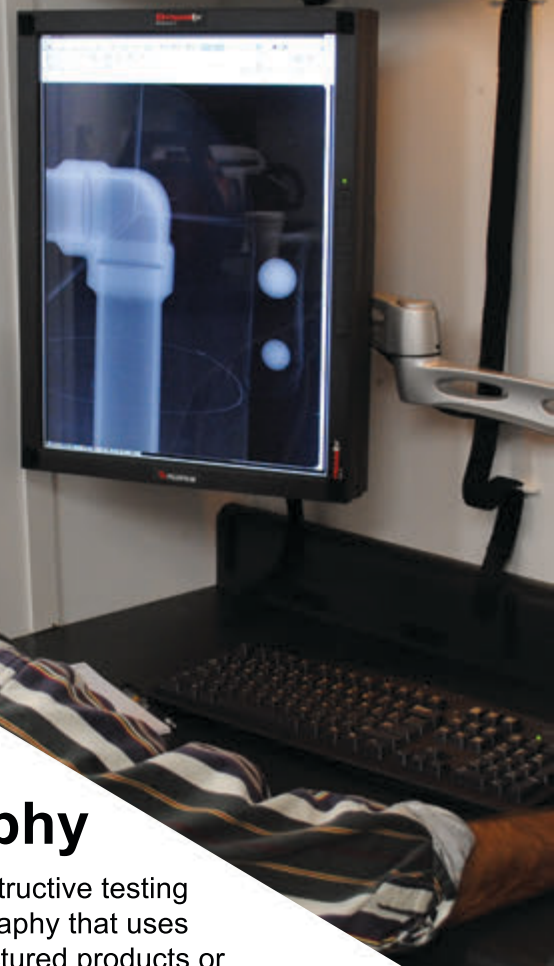
Applied Technical Service Non-destructive testing department offers industrial radiography that uses X-rays to reveal defects in manufactured products or structures. Our highly rated radiography systems give us precise imaging with much greater detail than film. The capability to select and enhance critical areas of interest and the ease of electronic file sharing are just a few advantages our customers enjoy.

### Common Capabilities:

- Assemblies
- Castings
- Welds
- Circuitry
- Electronics
- Metals
- Plastics
- Composites

### Common Industries Served:

- Nuclear Power
- Paper Mills
- Welding Qualifications
- Fabrication Shops





# Radiographic Inspection

## Nondestructive Testing Field Services

### Radiographic Inspection

ATS's radiographic inspection procedure requirements maintain producing images on film through the use of x-rays or gamma rays with the intent to meet and/or exceed standards. All radiographic inspections are performed by qualified ATS certified personnel in accordance with the ATS Quality Assurance Program. Our goal is achieve the most accurate and reliable data in a cost-effective and timely manner.

### Radiographic Examination for Piping Wall Thickness

Through the use of radiographic inspection, continuous thickness scans can be performed on the shell of carbon steel tanks and vessels, as well as piping systems. This inspection data is presented in a graphical format that can include measurement of wall thickness calculations of insulated or uninsulated piping, as well as detecting internal or external erosion/corrosion, product build-up or blockage.

### Concrete Radiography (X-Ray)

Obstructions can be located with 100% accuracy with reliable radiographs. X-rays give us the ability to identify rebar, conduit, and post-tension cables in concrete structures up to 24" thick. Our services are guaranteed to give you the results you need.

### Ground Penetrating Radar (G.P.R)

Using radar technology, we can locate post-tension cables, rebar, conduit or other internal metal structures in concrete up to 32" thick. This non-intrusive inspection can be employed at any time, eliminating the need for a "radiation barrier". G.P.R. can reveal the depth of concrete up to 18". Block walls and concrete structures can be scanned for proper rebar placement. 3-D computer imaging is available for formal reports and archiving.

### Radiographic Inspection of Stainless Steel Weldments

ATS has inspectors trained and certified to perform the following types of radiographic inspections:

- Certified Welding Inspector (C.W.I) per AWS D1.6/D1.6M-2007
- Radiographic Testing per ASTM E 94
- Quality Control per ASTM E 142
- Image Quality Indicators (IQI) per ASTM E 747
- Method for Radiographic Examination of Weldments per ASTM E 1032

**We Inspect to the following codes:**

- AWS D1.6/D1.6M-2007
- ASTM



**We Take A Closer Look!**

[www.atslab.com](http://www.atslab.com)