

Manual Section 7	Issue Date 03/17/16	Revision Date 01/15/26	Policy Number LLCP-102
Radiography (X-Rays)			

Operations

Include the use of x-ray machines or radioisotopes to verify the integrity of the pipe welds to minimize the possibility of leaks or weakness at the weld. The percentage of welds to be x-rayed generally varies from 10% to 100% and is usually specified in the project specifications. The x-ray negatives are generally developed on-site for immediate evaluation. Welds found to be defective are either repaired or cut out, depending upon the severity of the fault.

Scope

All GIS Holdings, LLC Companies and affiliates including, Blanchard Industrial, LLC, GIS Engineering, LLC, Grand Isle Shipyard, LLC., GWIS, Mack Steel, NuWave, Valvemax, Discovery Industries, Inc., Global Inspections, LLC, and EIS, hereafter identified as “Company”.

Basic Equipment

- Internal or external x-ray machines and equipment, and
- A mobile lab for developing the negatives.

Common Injuries/Illnesses

- Sprains/strains.
- Radiation burns.
- Radiation sickness.

Common Safety Hazards

There are risks of exposure to radiation resulting from working with or around the x-ray equipment. This can cause various forms of illness and varying degrees of burns depending upon the type and duration of exposure.

Procedures and Requirements

- Personnel shall use lead-lined gloves.
- Radiation warning signs and barricades shall be in place.
- The working area and equipment shall be checked regularly for radiation leaks.

Protective Devices/Precautions

- Lead-lined gloves/clothing.
- Containers for radioisotopes.
- Equipment for handling radioisotopes.
- Check area regularly for radiation leaks.
- Don't leave pill containers unsealed.
- Radiation exposure badge.
- Radiation leak detectors.
- Check badges for exposure levels.
- Don't handle isotopes without proper equipment.

Note: Others usually do this procedure and the construction crew should not cross into the barricaded area.