

Energy storage welding screw welding inspection

What is a weld visual inspection?

The purpose of this specification is to establish minimum requirements for Weld visual inspection for product acceptance of GE Energy Connections (EC) components to detect surface defects on welds, base metal defects caused by weld, or defects in base metal that is repaired by welding.

What is a Welding Procedure Specification?

Welding Procedure Specification also qualifies the system. Otherwise, qualification of a system shall be per 6.2.2. Devices used to determine electrode force shall have a minimum accuracy of $\pm 5\%$. All weldments shall be fabricated according to the requirements of this process specification.

What should a weld inspection surface be?

The weld inspection surface shall be in the final heat treated condition and be free of all coatings and other surface conditions such as paint, plating, corrosion, etc. When blending or contouring is not required, welds shall be inspected in the as-welded condition.

What is electric resistance welding (ERW)?

Electric Resistance Welding (ERW): ERW welding processes include spot welds and long seam welds for amalgamation of faying surfaces. Spot welds are mostly used for joining multiple metal sheets together by applying pressure and heat to the weld area, usually in the automotive and sheet metal fabrication sectors.

What should be included in a weld inspection area?

The inspection area shall include the weld and the accessible adjacent base material for a distance of 1.2 inch from the toes of the weld or edge of the base metal, whichever is less. Material thickness shall be the nominal or actual thickness as specified on the engineering drawing or material specification.

When should a weld be inspected?

When blending or contouring is not required, welds shall be inspected in the as-welded condition. When surface blending or contouring is required for other non-destructive tests, weld visual inspection shall be performed after surface conditioning.



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