



# CREEP WAVE STORAGE VESSEL INSPECTIONS

Preparing and executing inspections on storage vessels can be difficult, costly, labor-intensive, and hazardous to both the workers involved and the environment.

Echo NDE's alternative solution to the logistics and extensive pre-planning associated with inspecting a storage vessel internally is to perform encoded creep wave inspections using phased array technology. Using creep waves, we are able to focus the inspection specifically on the I.D. surface of the weld from the O.D. surface. By focusing on the weld I.D. surface, we do not complete a full volume weld inspection which often times find original manufacturing defects that no longer comply with modern codes and can lead to costly repairs and even the potential decommission of a vessel.

Echo NDE has been performing Creep Wave Inspections as an advanced crack inspection for years, creating substantial cost savings for our clients. Using our tested and proven procedures, we are able to easily detect I.D surface indications of less than 2% wall thickness. Due to our advanced technology and procedures, we are able to complete this inspection on any wall thickness. Any indications of concern would then be detailed and sized using conventional Ultrasonics so a repair procedure or monitoring program can be established until the vessel can be opened and repaired appropriately.

## ADVANTAGES:

- Inspection can be completed online
- Use of automated crawler reduces additional access requirements
- Minimal pre-planning and prep required
- Digital encoded record of scan provided for future reference
- Significant cost savings when compared to traditional inspection methods
- I.D surface-focused inspection
- Non-invasive inspection method

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