

Project Title: **Pre-normative research on resistance to mechanical impact of composite overwrapped pressure vessels**

Project acronym: **HyPactor**

Instrument: **171 - Article 171 of the Treaty**

Thematic Priority: **SP1-JTI-FCH.2013.5.6**

Grant Agreement: **621194**



HYPACTOR

This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement n° 621194

DELIVERABLE ID	D4.2
Deliverable name	NDT protocol for Characterization of damages by NDT in WP2 and WP3
Lead beneficiary	Institut de Soudure
Contributors	Air Liquide, CEA, WRUT, NTNU

PROPRIETARY RIGHTS STATEMENT

This document contains information, which is proprietary to the Hypactor Consortium. Neither this document nor the information contained herein shall be used, duplicated or communicated by any means to any third party, in whole or in parts, except with prior written consent of the Hypactor consortium.

1. Executive summary

1.1. Description of the deliverable content and purpose

This deliverable is the second of the WP4 of HYPACTOR project.

In WP4, periodic inspection of COPV by Non Destructive Testing (NDT) methods is assessed. Two NDT methods are studied as they are the most mature, already supported in standards (visual inspection) or in development (Acoustic Emission Testing).

Other NDT will be done in WP2 and WP3 in order to characterize damage.

This deliverable provides the protocols and guidelines to consider for each NDT method applied.

NDT methods apply on COPV.

1.2. Deviation from objectives, corrective action

N/A

1.3. Technical progress

N/A

1.4. Impact of the results

N/A

1.5. Dissemination activities

1.5.1. Publishable summary of the deliverable

The deliverable D4.2 gives guidelines for the use of NDT for damage characterization on Hypactor pressure vessel.

1.5.2. Dissemination activities

Confidential deliverable.