

## OP 473

### Residual Life Assessment (RLA) and standardization

**Lauriane Guilmois, Fabien Lefebvre**, Bruno Depale  
*Cetim, 52 Avenue Félix Louat, 60304 Senlis, France*

The paper starts with the problem of evaluating residual life of structures that may have reached or exceeded the end of their design life. Many industrial sectors must face this problem but references for fully dealing with it are often limited.

Then, a selection of European and ISO references potentially suitable for this purpose for steel structures and cranes are presented and discussed, as well as some of the practical issues faced by the engineers in charge of such assessment of the residual life of old equipment and structures.

The paper presents a general methodology for the assessment and management of residual life of existing equipment that has been developed by CETIM (French Technical Institute for Mechanical Industry) and concludes with its extension as a draft of French standard NF E 01-017 “Engineering goods – Method for Residual Life Assessment (RLA) and assessment of the capacity of extension of the operational life of exiting equipment.”, compatible with the EN 4555X series dealing with ecodesign requirements on material efficiency aspects for energy-related products.