

Short report of the TC54 meeting – May 3rd, 2022

The most important topic under discussion was the **submission to Formal Vote of the outstanding amendments of the different parts of the Unfired Pressure Vessel standard EN 13445**, considering the “**new way of working**” to be followed for the next updates of the standard.

The 2021 edition of EN13445, originally scheduled for 2019, five years after the previous 2014 edition, **was in fact published only two years** later, in April 2021. This delay was due to the large number of work items being processed, and to the numerous comments from the Commission’s consultant (**HAS Consultant**), which often concerned also the previous editions of the standard.

The delay of the 2021 edition **also delayed the Formal Vote on a whole series of Amendments** (especially relating to part 3 - Design and Calculation) already approved in the Public Enquiry, and with all the comments already processed. For some of these Amendments the works had started at least 4 years ago. I mention among others:

- Revision of chapter 18 on **Fatigue Analysis**
- Revision of chapter 9 on **Reinforcement of Openings**
- Revision of chapter 16 on **Vessel Supports**
- Revision of Annex C on **Linear Elastic Analysis**
- Revision of Annex A on **Weld Details**

In the last meeting of TC54 it was decided to **consolidate all these amendments into a single document**, bringing them all together to the Formal Vote, which however means that, in the event of approval, **these important regulatory changes will only come to light with the next "issue" of the 2021 edition**, therefore expected only in 2022 (or 2023?). During the meeting it was in fact clarified that, according to the CEN rules, **a further assessment of the HAS consultant before the Formal Vote is needed**. Unfortunately, **the contract with the old HAS Consultant is expired, so this assessment has to be made by a new HAS Consultant**, who, by the way, has not yet been appointed by the Commission. Even if we do not consider the delays caused by this procedure, **there is a definite risk that the opinions of the new HAS Consultant are different from the ones of the previous HAS Consultant**, so that, having already resolved the comments raised by the old HAS Consultant in the respective Public Enquiries, further work (and further time) is needed to resolve possible new comments on the new amendment.

Note that in this way, the “**new way of working**” has been inaugurated, specifically envisaged for **EN 13445 on Pressure Vessels and for EN13480 on Piping**. It is based on the following principles:

- A **new edition** of the standard **every 5 years**
- A **new "issue"** of the standard **every year**
- Only **one Amendment each year for each part of the standard**, to be launched together in a single Public Enquiry

It is clear that, condensing in a single amendment a series of amendments needed for different Work Items, in the case that a comment on only one of them cannot be resolved, **the entire annual amendment will be**

Short report of the TC54 meeting – May 3rd, 2022

stopped. This risk is particularly serious for the new amendment of part 3, whose assessment has to be made by the new HAS Consultant before the Formal Vote.

The following are the most important points in the **program of work** for the various Working Groups of TC54.

▪ **WG53**

The current list of proposed new PWIs for EN 13445-3 is as follows:

- one new PWI for work on nominal design stresses for cast steels;
- one new PWI for work on modifications of Clause 10 – flat ends;
- one new PWI for work on modifications of Clause 11 – Flanges with slotted holes.

▪ **WG58**

Revision of EN 15776 (Requirements for the design and fabrication of pressure vessels and pressure parts constructed from cast iron with an elongation after fracture equal or less than 15 %)

▪ **WG5**

Revision of EN 14359 (Gas loaded accumulators)

▪ **WG 11 (additive manufacturing):**

The works are in progress.

F.Lidonnici
(Convenor of WG53/CENTC54)