



TECHNICAL ADVISORY BOARD (TAB)

ISO/TC 197 **N 598**

2013-07-24
page 1 of 1

TAB Recommendation: NWIP from USA “Gaseous Hydrogen – Fueling Stations – Compressors”

Upon review and discussion of the above NWIP from USA duly submitted on May 1, 2013, ISO/TC 197 Technical Advisory Board (TAB) was unable to come up with a unanimous recommendation for the ISO/TC 197 P-members.

There was one member of TAB who felt there was no urgent need, for a standard for compressors used in fuelling stations, being as there already exists industry documents (ex. EIGA, API, etc.) that meet the current need. In addition, he felt that safety issues are already covered by specific standards for hydrogen material compatibility and for pressure cycling resistance. He also felt that the main concerns are limited to reliability issues and it is possible that the manufacturers having the relevant knowledge are not ready to share it.

Other TAB members felt that a standard for compressors is needed as they are the weakest component in fueling stations, especially in North America. According to USA failure statistics, 65% of failures in fueling stations are caused by compressors. Even, the compressor industry itself has publicly identified the need to address many issues specific to the hydrogen fueling industry. The introduction of higher pressures for hydrogen will make the reliability of compressors even more challenging.

Thus, the majority of TAB felt that there is a need for a standard that specifies compressor design requirements and tests based on operating conditions in a fueling station. The main issues for fueling stations are safety and reliability.

In this regard, there was agreement that, if this NWIP goes forward, it will be important to get compressor manufacturers to participate in the development of the standard.

As well, if this NWIP goes forward, TAB recommends approving Peter Ehlers as the convenor. Mr. Ehlers is the Program Manager for alternative energy standards development at CSA Group and has many years of experience in this area and he will be supported by his staff.

It should be noted that the role of the TAB Recommendation is not to discourage any NWIP, but to make suggestions to improve and to prioritize NWIP, when appropriate, and to provide additional information to P-Members to reflect upon prior to submitting their vote.

Sent out by: J. Ferrero

Address reply to:



Mr. Jim Ferrero, Secretary of ISO/TC 197
Bureau de normalisation du Québec
333, rue Franquet
Québec (Québec) CANADA G1P 4C7
Tel: + 1 418 652 2238 (ext. 2920) Fax: + 1 418 652 2292 E-mail: jim.ferrero@bnq.qc.ca