

REGISTRATION PROCESS FOR ENGINEERED COMPOSITE SYSTEMS

Effective November 1, 2021

Policy Paper TSASK-2021-04-01

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1. SCOPE

This paper covers the process for the registration of Engineered Composite Systems (ECS) for use in Saskatchewan. The paper also describes the process for obtaining acceptance for the use of ECS.

2. OUTSIDE OF THE SCOPE OF THIS PAPER

This paper does not apply to any other registration process at TSASK.

3. IMPLEMENTATION

The ABSA document AB-539 (Engineered Composite Systems for Pressure Equipment Alterations, Edition 1 Revision 0) shall be followed for all ECS to be installed in Saskatchewan subject to the following amendments:

3.1

The option to use ECS to reinforce a thin area or to restore the structural integrity of pressure piping system is deemed an alteration and shall be made available to TSASK Quality Management System **(QMS) manual holders only**. To take advantage of the use of ECS, the QMS company shall update their registered QMS manual to include the control of this special process per clause 75 of *The Boiler and Pressure Vessel Regulations, 2017*.

3.2

The ECS Installation organization shall update their TSASK Quality Control Program (QCP) manual to cover the scope of work related to engineered composite systems.

4. REGISTRATION APPLICATIONS

Per Annex B of AB-539, there are two parts to the registration process.

- (a) ECS procedure specification (ECSPS) registration; and
- (b) Registration of an application specific alteration procedure (i.e. design and installation procedure)

Applications can be made separately or together. When both applications are made together or when application is only for (b) above, completed Forms TSK-1011 Application for the Registration of a Pressure Piping Design and TSK-1003 General Engineering Requirements for Design & Construction of Pressure Piping Systems shall be used. When the application is only for (a), completed Form TSK-0005 Application for Demand Service shall be used. All applications shall be certified by a Professional Engineer as defined in *The Engineering and Geoscience Professions Act*.

Completed ECS application packages shall be submitted to:
Email: designsubmission@tsask.ca or

Codes & Standards Compliance

Technical Safety Authority of Saskatchewan
2202 2nd Avenue
REGINA SK S4R 1K3

5. QUESTIONS REGARDING AN APPLICATION

If possible, applicants should contact their Design Survey Engineer directly with questions. Be sure to include the TSASK reference number or provide enough detail that the Design Survey Engineer will know which application is being referenced.

For all other design inquiries, please contact TSASK Codes & Standards Compliance:

- By email at CodesandStandards@tsask.ca;
- By phone at either (306) 787-4567 (Regina) or Toll Free (866) 530-8599. Please ask to speak to either a TSASK Design Reviewer or the Manager, Codes & Standards Compliance; or
- Visit the TSASK website at www.tsask.ca for more information.

6. DOCUMENTATION

The form TSK-1017 (Alteration Report for Installation of Engineered Composite Systems) shall be completed after installation and curing. This form shall be forwarded to the TSASK Inspector responsible for the location of installation for completion. The TSASK Inspector may need to inspect the installation before completing the form. A duly completed copy shall be retained by the owner and shall be available during the QMS holder's audit.

7. EFFECTIVE DATE OF REQUIREMENTS

The requirements of Policy Paper *TSASK-2021-04-01 Registration Process for Engineered Composite Systems* shall be effective **2021 November 1**.