PVHO-I Form VP-2 Acrylic Window Design Certification

Window Description

Window Drawing No. _____

Maximum allowable working pressure _____ psi _____ MPa

Maximum design temperature _____ °F _____ °C Minimum design temperature _____ °F _____ °C

Window shape _____

Conversion factor table number _____

Pressure range, N _____ Conversion factor, CF _____

Short-term critical pressure and fig. no. _____

Experimental Verification [Note (1)]

No. 1 _____ No. 2 _____

Thickness t (actual) _____

No. 3 _____ No. 4 _____

Do (actual) _____

Di (actual) _____

No. 5 _____ STCP _____

perature _____ °F _____ °C (Note each test specimen FS for

Water temperature (Note each test specimen FS for full scale or MS for model scale.)

Type of failure _____

Test conducted at _____

Test supervised by _____

Window Design

Inner diameter, Di (nominal) _____ Included angle (nominal) _____

External radius of curvature (nominal) _____ Minimum tlDi (calculated) _____

Minimum t (calculated) _____ Di IDf (nominal) _____

Minimum Di (calculated) _____

Diametral interference/clearance between Do of window and window seat at maximum design temperature (calculated) _____

Diametral interference/clearance between Do of window and window seat at minimum design temperature (calculated) _____

Actual t (specified on drawing) _____

Actual Di (specified on drawings) _____ Actual Do (specified on drawings) _____

Actual external radius of curvature
(specified on drawings)

(spherical or cylindrical) _____

Drawing no. of window _____ Drawing no. of flange _____ Drawing no. of assembly _____

Description of pressure vessel (for which the window has been designed) _____

_____

The viewport design complies with all of the requirements of the Safety Standard for Pressure Vessels for Human Occupancy, subsection 2-2.

viewport designer	date
authorized representative of chamber manufacturer or owner	date
name and address of chamber manufacturer or owner	date

NOTE:

(1) If STCP is determined experimentally according to para. 2-2.5.2, then the critical pressures of all five windows tested, the testing laboratory, and the test supervisor should be noted here.