

November 28, 2011

DECLARATION OF CONFORMITY
STATEMENT OF NACE STANDARD MR0175-2003 COMPLIANCE

The referenced standard covers metallic material requirements for resistance to sulfide stress cracking (SSC) for petro-chemical applications to be used in H₂S bearing hydrocarbon service. The specification clearly states “The user shall determine whether the environmental conditions fall within the scope of this document.”

To assist the user in making this judgment, we will define our interpretations of the Standard with respect to CCS products:

Sour Gas - The standard states “ Materials shall be selected to be resistant to SSC or the environment should be controlled if the gas being handled is at a total pressure of 0.4 Mpa (65 psia) or greater and if the partial pressure of H₂S in the gas is greater than 0.0003 Mpa (0.05 psia). Systems operating below 0.4 MPa (65 psia) total pressure or below 0.0003MPa (0.05 psia) H₂S partial pressure are outside the scope of this standard.”

CCS assumed that the above combination of conditions can only occur in the process media and therefore only applies to the wetted materials.

Sour Oil and Multiphases - If the concentration of H₂S is less than 15%, the NACE standard indicates that no SSC will occur below 70 psia (See figure 2 of standard). CCS manufactures all wetted metallic parts from the Austenitic Stainless Steels (Rockwell hardness less than 22c), Inconel 600, Hastelloy C, Monel or Inconel X-750 (Rockwell hardness less than 35c). Again, CCS assumes that the condition for SSC can only occur at the process media wetted materials.

Wetted materials described in CCS Composite Catalog #830F, comply with the referenced standard. The following CCS models comply with the requirements of NACE Standard MR0175-2003.

604G*-7029	605G*-7044	6401PE*	646GZE*-7062	6900GC*	6901P*-7038
604G*-7044	605G*-7045	6403GZE*	646PE*-7038	6900GZ*	6903GZ*
604G*-7045	605GZ*-7011	6403PE*	646TE*	6900GZ*-7042	6903P*-7038
604GVZ*	605GZ*-7030	646DZE*	646TUE*	6900GZ*-7043	6905G*-7042
604GZ*-7011	605P*-7038	646GE*	646VZE*-7011	6900GZ*-7054	6905P*
604GZ*-7030	605T*	646G*-7044	672DE*1,2,3	6900GZE*-7066	6905T*
604P*-7038	605TU*	646G*-7045	673DE*Y-8011	6900GZE*-7074	6905TU*
604T*	605VZ*-7011	646GE*-7029	6900G*-7044	6900P*-7038	
604TU*	611GZE*	646GVZ*	6900G*-7045	6900TE*	
604VZ*-7011	611VZ*	646GZE*-7011	6900G*-7058	6900TUE*	
605G*-7029	6401GZE*	646GZE*-7030	6900G*-7059	6901GZ*	

Note: CCS does not have any certification. Considering the explanation given to me by NACE’s technical assistant representative, NACE is a voluntarily adapted standard and therefore NACE does not issue any certification.

Issued	09/18/1996	Rev. C.	01/21/2002
Rev. A	07/30/99	Rev. D.	06/11/2002
Rev. B	01/23/2001	Rev. E	03/21/2004
Rev. F	05/20/2010	Rev. G	11/28/2011
Rev. H	11/28/2011		

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