

SCI GENERAL AUT QUALIFICATION, J-BEVEL

AUT Qualification of SCI PipeSyscan-PA

SCI Control & Inspection

Report No.: 2016-4081, Rev. 1

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 Applicable contract(s) governing the provision of this Report:

Objective:

The SCI PipeSyscan-PA AUT procedure for GMAW+FCAW J-bevel pipeline girth weld configurations have been subjected to qualification trials according to DNV-OS-F101 and DNV-RP-F118, in order to document general performance for carbon steel applications. The trial welds for reliability tests included in total 6 J bevel preparation GMAW+FCAW girth welds of 24" OD x 14.3 mm nominal WT. The qualified configurations are representative for a range of wall thicknesses between 10 mm to 40 mm, and for pipes of diameter of 6" and above. The valid range for bevel angles are within 0° to 15°. A total of 114 AUT indications were subjected to macro sectioning for further analysis. DNV GL has witnessed the trials, and the qualification has been implemented according to the requirements set forth in the applied code and guideline. The qualification is valid for all carbon steel applications, on the condition that no changes are made to the AUT system. Validity of the qualification results can be confirmed through a limited validation scope, if the weld and AUT configurations are outside the range of validity specified above.

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