AWS D1.1 Interpretation

Subject: Threaded Stud and Torque Testing  
Code Provision: 7.6.5 and 7.7.1.4  
AWS Log: D1.1-06-I14

Inquiry: Do all threaded studs have to be torque tested and cannot be tested by the bend test technique?

Response: Clause 7.6.5 deals specifically to Application Qualification test requirements for special cases as noted. It is a procedure test and not conducted on production work. The clause is not specific to threaded studs or non-threaded studs. When invoked by the position of stud application the qualification studs may be tested by any suitable means to achieve the Application Qualification.

Clause 7.7 deals with production control of stud application using the procedure developed by 7.6.5. Its purpose is to verify the procedure developed elsewhere will produce sound stud attachment. Bending the threaded stud for production testing on fabricated parts may distort the threads to the point that the thread will not engage properly. Therefore, for production testing under Clause 7.7.1.4, bend testing of threaded studs is prohibited.

Bend testing is allowed for Stud Application Qualification testing per 7.6.5. Bend testing is prohibited for Production Control testing of applied threaded studs per 7.7.1.4.