The Repair Welding Subcommittee was called to order by the sub-committee co-chairs, Brad Etheridge and Geoff Rogers, at 8:05 AM. Approximately 25 participants attended the meeting. Those present introduced themselves and their affiliation. There was a quorum present with four of seven subcommittee members in attendance.

2017 Subcommittee Meeting Minutes – The minutes from the 2017 Repair Welding Subcommittee meeting were briefly reviewed.

2017 Work Group – Geoff and Brad presented the product of the work group that met throughout the last year to the subcommittee. The work group was formed last year to further refine the proposed changes for the Twenty-Second Edition.

Discussion Items – Some of the major discussion points and changes that were presented were as follows:

- Nick break testing has been removed from welding procedure testing but remains for welder testing.

- Hardness and toughness testing remain as optional unless required by the original production welding procedure or the company. Guidance is still presented on testing, hardness indents will be adjusted to comply with NACE MR-0175 requirements.

- Presented a new table which contains the essential variables specific to Section 10. Section 5 essential variables are pulled into Section 10 by reference. Category I and category II essential variables were introduced to align with Section 5. Preheat and joint design specific to Section 10 were removed to allow Section 5 essential variables to govern.

- Straw poll taken to determine if there was interest in replicating Section 5 essential variables, in Section 10 as opposed to referencing back to Section 5. The vote was split about 50/50, so the
Table will be left as is but reference numbers will be added to allow users to refer more easily to specific essential variables.

- New specification information was added to require that the process and filler metals to be used for a partial thickness, cover pass and back weld repair be specified on the WPS when those repair types have been qualified by another repair type. For example, a full thickness repair welding procedure qualified using an E6010 for the root and second pass, and an E7018 for the remaining passes may be used to make a partial thickness repair only using E7018 filler metal.
- Butt weld qualification qualifies both welding procedures and welders for branch and fillet welds
- Discussion around inclusion of the substrate weld and weld repair type as a category II essential variable. Ultimately the group decided to table this for future discussion after the Twenty-Second Edition is complete.
- Welder qualification, outside diameter is not an essential variable for welders. Added the ability to qualify for all repair types by making a full thickness repair and all positions by qualifying in 6G.

Voting: All changes made during the meeting were voted on as a group and were passed unanimously.

Assignments: None

Other Business: No other business or concerns were raised.

Plan Moving Forward: Co-Chairs will closely follow developments of essential variables in Section 5 and work with Annex B task group to align repair requirements as needed. Proposed changes for the Twenty-Second Edition will be submitted to the Editorial Task Group.

The meeting was adjourned at approximately 5:05 PM.

Brad Etheridge                        Geoff Rogers
Co-Chairman                           Co-Chairman
Repair Welding Subcommittee           Repair Welding Subcommittee