

Coded Note Number: **LI061**

Revision: **C011**

Date: **February 2, 2021**

Title: **WELD PROCEDURE IAW NAVSEA S9074-AR-GIB-010/278 FOR APPROVAL**

1. A Newport News Shipbuilding (NNS) approved fabrication weld procedure in accordance with NAVSEA Technical Publication S9074-AR-GIB-010/278 and Procedure Qualification Record/Reports (PQR) in accordance with NAVSEA Technical Publication S9074-AQ-GIB-010/248 are required for this Purchase Order (PO) item.

1.1. If the Supplier has a subcontractor performing any welding to manufacture this PO item, the subcontractor's production welding procedure(s) and supporting PQR are required to be submitted to NNS for approval. The submittal shall clearly state the company that will use the procedure(s), and the applicable NNS PO number and PO item number.

1.2. No production welding shall be performed until the Supplier obtains NNS approval for the weld procedure(s) intended to be used to fabricate this PO item. Weld procedures require individual approvals for each NNS material number/Newport News Part Number (NNPN).

2. Weld Repair

2.1. Base Metal. Minor weld repair of base metal, as defined in NAVSEA Technical Publication S9074-AR-GIB-010/278, is authorized provided all the following conditions are met:

2.1.1. An NNS approved weld repair procedure in accordance with the applicable fabrication specification is used.

2.1.2. The weld repair is specifically permitted by the weld repair procedure, fabrication specification, equipment/material specification, or approved drawing.

2.1.3. Weld repair is not otherwise restricted within the PO.

2.2. Castings. Minor and nominal weld repair of castings, as defined in NAVSEA Technical Publication S9074-AR-GIB-010/278, is authorized provided the the following conditions are met:

2.2.1. An NNS approved weld repair procedure in accordance with the applicable fabrication specification is used.

- 2.2.2. The weld repair is specifically permitted by the weld repair procedure, fabrication specification, equipment/material specification, or approved drawing.
 - 2.2.3. Weld repair is not otherwise restricted within the PO.
 - 2.2.4. For nominal repairs, the casting identification number, welding procedure number or title, welder identification, and name of the authorized representative are recorded and documentation retained as required in NAVSEA Technical Publication S9074-AR-GIB-010/278.
 - 2.3. Weld repair procedures and PQRs are to be submitted to NNS for approval via a VIR, as necessary.
 - 2.4. When base metal or casting weld repair has been determined necessary, yet the fabrication specification, equipment/material specification, or approved drawing doesn't cover weld repair or doesn't specifically permit weld repair, a VIR must be submitted to NNS for approval.
- 3. The requirement to have an NNS approved fabrication weld procedure including the associated PQR may be satisfied through one of the following methods:
 - 3.1. Use of an Approved Procedure.
 - 3.1.1. When one or more fabrication weld procedures are listed as specifications for the PO item number, the use of one of the listed weld procedures is acceptable. Welding in accordance with a listed procedure number and revision is authorized, and no submittal is required, with the exception of casting weld repairs.
 - 3.1.2. Fabrication weld procedures are not to be used for casting weld repairs. Casting weld repair requests as required by NAVSEA Technical Publication S9074-AR-GIB-010/278, and approval of the procedure(s) and applicable PQR, shall be by Vendor Information Request (VIR).
 - 3.2. Use of Unlisted Approved Procedure(s) / Procedure(s) Pending Approval.
 - 3.2.1. The use of a fabrication weld procedure listed for the PO item number is not mandatory. If previous approval for welding to NAVSEA Technical Publication S9074-AR-GIB-010/278 has been obtained from NNS for the NNS material number/NNPN or the procedure has been submitted and is pending approval from NNS but the procedure number and revision is not listed on this PO item, re-submittal of the procedure is not required. However, authorization to weld is withheld until a notification is submitted and approved.

3.2.2. The Supplier shall submit notification of the previous approval or pending approval to NNS for approval using the submittal directions in Section 5. Notification shall include the PO and item number of the previous submittal, the weld procedure number and revision, and as applicable, the previous approval letter number or identification.

Note: Upon NNS approval, NNS will update the NNPN to reflect the weld procedure number and revision so the procedure will be listed as a specification on future POs involving that NNPN.

3.3. Submittal of a New Procedure for Approval. If the Manufacturer/Supplier does not have an NNS approved fabrication weld procedure, the Manufacturer/Supplier shall submit a proposed procedure qualification plan, including a description of the qualification, to NNS for review within 30 days after receipt of this PO using the submittal directions in Section 5.

3.3.1. After the Supplier receives feedback on their proposed procedure qualification plan from NNS, the Supplier shall submit the new weld procedure and PQR to NNS for approval using the submittal directions in Section 5.

3.3.1.1. The following information shall be clearly identified on the submittal:

- a) PO Number and PO item number(s)
- b) Material Number(s)/NNPN(s)
- c) This coded note number
- d) Fabrication standard and revision
- e) Weld procedure number and revision
- f) Weld procedure qualification record number
- g) Evidence of prior Navy approval (if available)

3.3.2. NavWeld software is the preferred method for developing, reformatting, or revising welding procedures required for the manufacture of the items listed in the PO. A license for NavWeld is available for NNS Suppliers, and access can be granted by contacting Troy Paskell at paskell@weldqc.com or 614-956-1153. See the NNS Supplier website for further information.

3.3.3. Reformatted or revised existing welding procedures shall include a copy of the original PQR along with the welding procedure submittal.

Note: Upon NNS approval, NNS will update the NNPN to reflect the weld procedure number and revision so the procedure will be listed as a specification on future POs involving that NNPN.

4. Radiographic Inspection (RT) Film Submittal for Procedure Qualification. Welding PQRs in accordance with NAVSEA Technical Publication S9074-AQ-GIB-010/248 for which radiographic inspection (RT) is required, and which have not been previously approved by NNS, require RT record submittal to NNS for approval.

4.1. The Supplier shall submit the following RT records to NNS for approval:

- a) the associated radiograph(s),
- b) set-up sketch(es), and
- c) radiographic inspection report(s) for review and approval.

4.1.1. The following information shall be identified on the submittal:

- a) The statement: "RT film and data for Welding Procedure Qualification."
- b) PQR Number _____
- c) Welding Procedure Number _____.
- d) The statement: "Visual Inspection (VT) was conducted and the weld found to be satisfactory."
- e) The RT performance standard and acceptance criteria for NAVSEA Technical Publication S9074-AQ-GIB-010/248 Qualifications as listed below:
 - Performance standard: NAVSEA Technical Publication T9074-AS-GIB-010/271
 - Acceptance standard: MIL-STD-2035A, Class I
- f) Joint type, i.e. butt, single bevel, double bevel, backing bar, etc.
- g) Base material type
- h) Filler material type
- i) Joint thickness
- j) Joint form plate/pipe

4.2. The RT records shall be submitted for approval by mail:

Newport News Shipbuilding (NNS)
4101 Washington Ave.
Newport News, VA 23607-2770
Attn: RT Interpretation Section
Dept. E37 Bldg. 167-1

4.3. A copy of the RT records approval from NNS shall be included with the PQR when it is submitted for approval.

5. Submittal Directions. The Supplier shall submit procedures, PQRs, or notification as required, through SPARS (Shipbuilding Partners and Suppliers)

<https://spars.huntingtoningalls.com/ngcspars/Auth>

or mail to:

Newport News Shipbuilding (NNS)
4101 Washington Ave.
Newport News, VA 23607
Attn: E68 Software Coordinator, Bldg. 902-2

Prior to submittal, Suppliers are encouraged to use the weld procedure checklist on the NNS Supplier website.

6. Welder Workmanship Training (WWT) Program: Supplier must have a Welder Workmanship Training Program as described in Appendix K. Every two years, an NDT Level III Examiner shall re-certify in writing that the program is adequate. Copies of these certificates shall be retained by the Supplier and be available for audit.

Click the following link for assistance meeting the requirements of this coded note:
http://supplier.huntingtoningalls.com/sourcing/doc_submittal_checklists.html

Revision History Table		
Rev	Description	Revision Date
C010	Revised: Mailing address- changed E45 to E68.	08-07-2020
C011	<p><u>ADDED:</u></p> <ol style="list-style-type: none">1. Requirement for submittal of a Vendor Information Request (VIR) for NNS Approval prior to any base metal weld repair.2. Detailed RT record submittal requirements.3. Revision History Table. <p>REASON: (1) Identified omission in current technical ordering data packages (2) clarification (3) Change to new iDS format.</p> <p><u>REVISED:</u></p> <ol style="list-style-type: none">4. Re-organized wording, clarified requirements, made editorial changes. <p>REASON: (4) Changes made to simplify and add clarification and consistency where necessary.</p> <p><u>REMOVED:</u></p> <ol style="list-style-type: none">5. The previous method for showing revisions (revision control paragraph at the beginning of PPN, [text deleted] and bold text. <p>Reason: (5) Change to new iDS format.</p>	02/02/2021

This revision history is provided for convenience and does not alleviate the supplier's responsibility with understanding and complying with the full coded note.