**Minutes of TG Graphite meeting October 24, 2023. Sheraton Sand Hill Resort, Clearwater Beach, FL. Recorded by C. Cary:**

1. **Call to Order**

The Chair called the meeting to order at 09:08 am EDT.

1. **Introduction of Members and Visitors**

Mr. Aaron Viet asked those at the meeting to introduce themselves. The following task group members were present for the meeting:

* Mr. Aaron Viet, Chair
* Mr. Greg Becherer
* Mr. Chris Cary
* Mr. Justin Clements
* Mr. Krunal Patel (representing Nolan Lee)
* Mr. Tracy Rudy
* Mr. Andy Stupica
* Mr. Keith Cummins
* Mr. Jesse Wince

The following task group members were absent:

* Mr. Jonathan Ellis, Secretary
* Mr. Francis Brown
* Mr. Sameh Mehrez

Mr. Nicolas Oeillet of Mersen was in attendance as a visitor.

A quorum was established.

1. **Adoption of the Agenda**

The proposed Agenda was distributed by email on Monday October 23 and also distributed by hardcopy in the meeting. A motion to adopt the agenda was made, seconded and the updated agenda was adopted by unanimous agreement.

1. **Approval of the Minutes of the July 2023 Meeting**

Minutes of the previous meeting (July 2023) were displayed and reviewed. A motion to approve the minutes was made, seconded and approved unanimously.

1. **Review of Rosters**
	1. Membership nominations:
		1. No new member nominations.
	2. Membership reappointments:
		1. No reappointments pending.
	3. Officer nominations:
		1. No new officer nominations.
2. **NBIC Business**

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| **Item Number: NB15-2208** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Investigate repair options for graphite block heat exchangers |
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| **Subgroup:** Graphite**Task Group:** A. Viet (PM), G. Becherer, K. Cummins**Meeting Action:** Mr. Aaron Viet discussed types of repairs and existing established methods. One possible need is for guidance on block section replacement (sectioning and combining pieces of blocks and new block material). A. Viet to produce a sketch and procedure.  |

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| **Item Number: 23-45** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Graphite plate replacement as Routine repair |
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| **Subgroup:** Graphite**Task Group:** Mr. Jesse Wince**Meeting Action:** The Task Group discussed and determined that plate replacement is a mechanical repair and not in the scope of NBIC Part 3. The TG voted to withdraw Item 23-45. Any Owner/User may install replacement plates as a mechanical repair subject to any jurisdictional requirements. NBIC is working on a guidance document for mechanical repairs.  |

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| **Item Number: New** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Requirement for G-mark when replacing parts |
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| **Subgroup:** Graphite**Task Group:** A Viet, J. Wince, S. Mehrez**Meeting Action:** Refer to 3.2 c) & d) for requirements for replacement parts. Add to 3.2 c): “Where material properties are used in supporting calculations, replacement parts shall meet or exceed the original values or recalculation/alteration is required.” Installation of the parts may be a mechanical repair if no cementing is required for installation. The User is responsible for following any jurisdictional requirements. 1. Viet to get an Item number and prepare proposal.
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| **Item Number: New** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** NBIC Document for Mechanical Repairs - TG Graphite review & comment |
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| **Subgroup:** Graphite**Task Group:** A Viet**Meeting Action:** Waiting for further developments on the NBIC guide for mechanical repairs. The TG has provided feedback to the document development process.  |

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| **Item Number: New** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Editing errors related to plug stitching, Ref S3.2 a) and e) |
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| **Subgroup:** Graphite**Task Group:** A Viet**Meeting Action:** A. Viet reviewed editing considerations: Use of the term “impregnated” vs. “impervious” should be aligned with ASME usage. “Shoulds” in S3.2 j) – change to “shalls”?; At S3.3 a) 3): remove “Only certified materials shall be used for this repair”? Duplication and in various sketches, also some not representative of actual items.S3.5.1-f) Typical Nozzle Connection does not provide meaningful information – is it needed or should it be expanded to be useful? S3.5.2.3 plug stitching in split ring groove is questionable. (This is from the Union Carbide book.)S3.5.2.4 Finishing the Repair – add a note about flatness, consider reference to ASME PCC-1;S3.5.4 f) page break across 3) has different indenting – what should be the format of the second paragraph? S3.5.5 b) – should it be specific to Part UIG-79 and UIG-80 (or a more general reference to ASME). |

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| **Item Number: NB19-73** | **NBIC Location: Part 3, S3** | **No Attachment** |
| **General Description:** Requirements for who can make hole plugging repairs on graphite blocks |
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| **Subgroup:** Graphite**Task Group:** A. Stupica (PM), C. Cary, S. Mehrez, A. Viet**Meeting Action:** Reviewed comments from Main Committee ballot. Determined to change l) as follows: “The repaired vessel shall be tested in accordance with this supplement, using a method acceptable to the Inspector, with a written procedure as approved by the manufacturer’s internal quality system, to ensure leaks have been repaired.” |

1. **New Business**

No new business

1. **Future Meetings**

Next TG Graphite meeting is planned for late March or April in Columbus OH, at the NBIC complex if available. Summer meeting (~July) is also planned for the NBIC complex. The fall (~October) meeting is planned for Clearwater FL.

1. **Adjournment**

Mr. Viet adjourned the meeting at 11:48 am EDT.