

## Subsea

## Subsea Installation - Readiness gate

BA-SUB-001

**Purpose:** Completed before subsea installation work commences, to verify that the engineering, the vessel spread and the procedures supporting the installation are complete and consistent.

**Frequency:** Once per campaign, before subsea installation starts | **Applies to:** Subsea | **Response set:** Yes / Partial / No / N/A, with a note and evidence against each item

**Basis:** publicly available industry guidance, principally IMCA and IOGP. This framework does not replace the diving contractor's safety management system, the client's own risk assessment, or applicable national legislation. | **Complete online at** [barrierassurance.com](https://barrierassurance.com)

| #  | Question                                                                                                 | Guidance and reference                                                                                                                                                                                                      | Y / P / N / NA |
|----|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1  | Are the installation procedures approved, current, and consistent with the analysis they are based on?   | Check the revision of the procedure against the revision of the analysis it cites. Divergence here is common and consequential. <b>Ref:</b> IMCA M253 (offshore pipeline and umbilical installation systems); IOGP guidance |                |
| 2  | Have the installation analyses been completed and accepted for the actual vessel and equipment?          | Analyses carried out for a different vessel or a different sea state are not transferable without review. <b>Ref:</b> IMCA M253; DNV offshore standards                                                                     |                |
| 3  | Are the weather and operating limits defined for each phase of the installation?                         | Each phase may have its own limit. Confirm the most restrictive is known and who monitors it. <b>Ref:</b> IMCA M220; IMCA M253                                                                                              |                |
| 4  | Has the seabed been surveyed, with hazards, existing infrastructure and crossings identified?            | Confirm the survey is recent enough to be relied on and covers the full corridor or footprint. <b>Ref:</b> IMCA S019 (subsea metrology); IOGP survey guidance                                                               |                |
| 5  | Are the lifting and deployment arrangements engineered, certified and proven for the loads involved?     | Including dynamic amplification and the splash zone case, which usually governs. <b>Ref:</b> IMCA M187; DNV lifting standards                                                                                               |                |
| 6  | Have the subsea structures and equipment been inspected, preserved and accepted before load-out?         | Damage in transit and preservation failures are found at the worksite far too often. <b>Ref:</b> IMCA M253; project specification                                                                                           |                |
| 7  | Is the metrology approach defined, with tolerances agreed and the method proven?                         | A spool that does not fit is a metrology failure long before it is a fabrication failure. <b>Ref:</b> IMCA S019 (guidance on subsea metrology)                                                                              |                |
| 8  | Have the interfaces with existing infrastructure, including live systems, been assessed and agreed?      | Proximity, isolation and the consequence of contact. Get the operator of the existing asset involved. <b>Ref:</b> IMCA D044; IMCA M125                                                                                      |                |
| 9  | Have simultaneous operations been assessed where installation overlaps diving, ROV or drilling activity? | Name the controlling authority and the stand-down triggers for each combination. <b>Ref:</b> IMCA M203                                                                                                                      |                |
| 10 | Is the emergency abandonment and recovery arrangement defined for each phase?                            | How the product or structure is left safe if the operation has to stop, and how it is recovered. <b>Ref:</b> IMCA M253                                                                                                      |                |