

# Z28 Surveys of Watertight Cable Transits

(Oct 2020)

## 1. Application

1.1 These requirements apply to all vessels and Mobile Offshore Units (MOUs) contracted for construction\* on or after 1st July 2021 and are in addition to the requirements of URs Z23, Z7 and Z15.

1.2 Watertight cable transits are to be installed and maintained in accordance with the manufacturer's requirements and in accordance with the requirements of the relevant Type Approval certification.

1.3 For MOUs, watertight cable transit seal systems should be inspected in accordance with item 8.6, Table 1 of UR Z23.

## 2. Cable Transit Seal Systems Register

### 2.1 New Construction

2.1.1 A Cable Transit Seal Systems Register (Register) is to be provided by the shipbuilder for all watertight cable transits fitted to the vessel or MOU. For an example of a register see Appendix 1 – "Recommendatory Sample - Cable Transit Seal Systems Register". The Register can be in either a hard copy or digitized media. It is to include a marking / identification system, documentation referencing manufacturer manual(s) for each type of cable transit installed, the Type Approval certification for each type of transit system, applicable installation drawings, and a recording of each installed transit documenting the as built condition after final inspection in the shipyard. It is to include sections to record any inspection, modification, repair and maintenance.

2.1.2 The Register shall be reviewed by the attending Surveyor to confirm it contains a list of the watertight cable transits, applicable cable transit information and sections to maintain in-service maintenance and survey records.

2.1.3 For manned vessels the Register is to be held onboard of the vessel or MOU. For unmanned vessels, if a suitable storage location does not exist onboard, the Register may be held ashore. The Register is to be readily available for the attending surveyor.

### 2.2 Vessel and MOU In Service

2.2.1 The owner is to maintain the Register to record any disruption (repair, modification or opening out and closing) to a cable transit or to record the installation of a new cable transit.

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Note:

1. This UR is to be uniformly implemented by IACS Societies on or after 1 July 2021.

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\* The "contracted for construction" date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of "contract for construction", refer to IACS Procedural Requirement (PR) No. 29.

**Z28**  
(cont)**3. Installation and Maintenance of Watertight Cable Transits**

3.1 At new construction and periodic surveys it is to be confirmed that:

- Cable transits have been installed, and where disrupted have been reinstated, in accordance with the manufacturer's requirements and in accordance with the requirements of Type Approval.
- Where specified, appropriate specialized tools have been used.

**4. Periodical Survey of Watertight Cable Transits****4.1 Special Survey**

4.1.1 The requirements for Special Survey may be undertaken by the attending Surveyor or by a firm approved as a service supplier according to UR Z17.

4.1.2 All transits are to be examined to confirm their satisfactory condition and the Register is to be reviewed to confirm it is being maintained. The Special Survey is to be recorded in the Register, in which a single record entry will be sufficient to record the survey of all transits.

4.1.3 From review of the Register, where there are records entered since the last special survey of any disruption to the cable transits or installation of new cable transits (except which are reviewed and examined at previous annual surveys), the satisfactory condition of those transits is to be confirmed by the attending Surveyor by review of records and examination of the transits; the results are to be recorded in the Register against each of those cable transits.

4.1.4 In case the cable transits have been examined by an approved service supplier, the attending surveyor is to review the Register in order to ascertain that it has been properly maintained by the owner and correctly endorsed by the service supplier.

**4.2 Annual Survey**

4.2.1 The Register is to be reviewed to confirm it is being maintained and as far as practicable the transits are to be examined to confirm their satisfactory condition.

4.2.2 Where there are records entered since the last annual survey of any disruption to the cable transits or installation of new cable transits, the satisfactory condition of those transits is to be confirmed by review of records and, if deemed necessary, by examination. The results are to be recorded in the Register against the specific cable transit.

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