

# No.42 Guidelines for Use of Remote Inspection Survey Techniques for surveys

(1996)  
(Rev.1  
May 2004)  
(Rev.2  
June  
2016)

## 1.0 General

### 1.1 Definitions

Remote inspection techniques ~~Inspection Techniques~~ may include the use of:

- Divers
- Unmanned robot arm
- Remote Operated Vehicles (ROV)
- Climbers
- Drones
- Other means acceptable to the Society.

1.2 When permitted remote inspection technique methods may be used to facilitate the required external and internal examinations, including close-up surveys and gauging ~~required with close-up surveys.~~

The methods applied for ~~Remote Inspection Techniques~~ remote inspection technique are to provide the survey results normally obtained for/by the Surveyor.

The results of the surveys by remote inspection techniques when being used towards the crediting of surveys are to be acceptable to the attending Surveyor. Inspections should be carried out in the presence of the Surveyor.

1.23 Confirmatory surveys/close-up surveys are to may be carried out by the Surveyor at selected locations ~~where close-up surveys are required~~ to verify the results of the remote inspection technique ~~Remote Inspection Technique methods.~~

Confirmatory thickness measurements may be requested by the attending Surveyor appropriately.

~~Proposals~~ An inspection plan for the use of Remote Inspection Technique methods are remote inspection technique(s), including any confirmatory survey/close-up survey/thickness measurements, is to be submitted to the Classification Society for approval review and acceptance in advance of the survey. ~~The Classification Society will review the proposal and approve the arrangements including minimum requirements for confirmatory close-up surveys.~~

## 2.0 Conditions

2.1 ~~Use of Remote Inspection Technique~~ remote inspection technique method may be restricted or limited where there is a record or indication of abnormal deterioration or damage to structure or to items to be inspected. ~~This method~~ The remote inspection technique may not be applicable if there are recommendations for repairs.

It may also be inapplicable if conditions, affecting the class of the vessel, are found during the course of the inspection survey.

If the ~~Remote Inspection Technique~~ remote inspection technique method reveals damage or deterioration that requires attention, the Surveyor may require close-up survey/thickness measurements without the use of ~~Remote Inspection Techniques~~ remote inspection technique to be undertaken.

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(cont)**3.0 Procedures**

3.1 The inspection is to be carried out by a qualified technician with adequate knowledge of the items to be inspected. ~~hull structure inspection under the surveillance of a Surveyor. The attending Surveyor(s) are to be fully informed of the firm's proposed inspection plan. Prior to the commencement of surveys a pre-meeting should be held between the technician(s), the owner's representative(s) and the attending Surveyor(s) for the purpose to ascertain that all the arrangements detailed in the inspection plan are in place, so as to ensure the safe and efficient conduct of the inspection work to be carried out.~~

3.2 ~~The Surveyor shall be satisfied with the method of live pictorial representation and the method of positioning of the technician on the structure. Two-way communication between the Surveyor and technician is to be provided. Means of thickness gauging and non-destructive testing may be required in conjunction with the use of Remote Inspection Technique remote inspection technique methods.~~

3.3 ~~The structure Items to be examined using Remote Inspection Technique remote inspection technique methods is are to be sufficiently clean to permit meaningful examination. Tanks are to be thoroughly cleaned including removal, from tank internal surfaces, of all loose accumulated corrosion scale, if present.~~

3.4 ~~If divers are used for Remote surveys, the Visibility in the tank is to be sufficient good to allow for a meaningful examination.~~

~~Revision note: Rev.1 general revision.~~

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