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| **PROTOCOL OF MEETING PRIOR TO COMMENCEMENT** **OF THE THICKNESS MEASUREMENTS** |
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| **PARTICULARS OF SHIP** |
| Name of ship |  |
| Registered number  |  |
| Age of ship |  |
| Ship’s type: |
|  | Oil Tanker (A.1049(27), Z10.1) | **―** |
|  | Double Hull Oil Tanker (A.1049(27), Z10.4) | **―** |
|  | Bulk Carrier (A.1049(27), Z10.2) | **―** |
|  | Double Skin Bulk Carrier (A.1049(27), Z10.5) | **―** |
|  | Chemical Tanker (Z10.3) | **―** |
|  | General Dry Cargo Ship (Z7.1) | **―** |
|  | Gas Carrier (Z7.2) | **―** |
|  | Other (Z7) | **―** |
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| **PARTICULARS OF SURVEY** |
| The meeting between following parties is held for the purpose to ensure the safe and efficient execution of the survey and thickness measurements to be carried out onboard the abovementioned ship (Names to be identified): |
| Place of survey |  |
| Date of protocol |  |
| Type of survey |  |
| Surveyor to RS |  |
| Ship owner’s representative |  |
| Thickness measurement service supplier operator |  |
| Master of the ship |  |
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| **I.** | **Submitted and considered documentation:** |
| 1. | ESP Ship’s file | **NA** |
| 2. | Approved Enhanced Survey Programme (ESP) | **NA** |
| 3. | Cargo, ballast and other spaces plans | **NA** |
| 4. | Information regarding condition of the corrosion prevention system in the cargo and ballast spaces | **NA** |
| 5. | Previous Thickness Measurement Report | **NA** |
| 6. | The IACS UR S19 Assessment of the transverse corrugated bulkhead | **NA** |
| 7. | Report on assessment of side shell frames in accordance with the IACS UR S31 | **NA** |
| 8. | Information on permissible residual scantlings of ship’s hull structures: | **NA** |
| 8.1 | in accordance with the Calculation of the permissible residual scantlings of the hull structural members | **NA** |
|  | № |  | agreed with RS (date of approval) |  |
|  |  (It is necessary to precise the applicability of the Calculation in the folder TECHNICAL/STRUCTURAL DIMINUTION ALLOWANCES of the ship’s file or, if necessary, to apply to RS office for supervision in service) |
| 8.2 | in accordance with rules of other class society wastage allowances (specify class society): | **NA** |
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| 8.3 | in accordance with paragraph 4.2.6 of the Annex 2 to the Rules for the classification surveys of ships in service | **NA** |
| 8.4 | additional and/or other (refer to section 5 of chapter I of the Rules for the classification surveys of ships in service) | **NA** |
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| **II.** | **The discussed questions and the accepted decisions:** |
| 1. | Service supplier performing thickness measurements: |
| 1.1 | Thickness measurements, if not carried out by the RS surveyor, are to be carried out by a service supplier recognized by the Register according to the RS Rules and witnessed by RS surveyor (refer to section 3 of the Annex 2 to the Rules for the classification surveys of ships in service). The RS surveyor is to be on board to the extent necessary to control the process of thickness measurements. |
| 1.2 | TM service supplier name: |
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| 1.3 | Recognition Certificate No., expiry date: |
|  |  |
| 1.4 | Qualification of operator: |
|  |  |
| 1.5 | Details of measurement equipment including date of calibration: |
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| 2. | Schedule for thickness measurements: |
| 2.1 | Planned terms of commencement for thickness measurements of different hull structures should be recorded upon the results of present meeting in the Attachment to this Protocol. |
| 3. | Conditions for survey and thickness measurements to be provided by shipowner: |
| 3.1 | Cargo holds, tanks and spaces are to be safe for access. |
| 3.2 | Access to structures acceptable to the RS surveyor should be provided. |
| 3.3 | Cargo holds, tanks and spaces are to be gas free and properly ventilated. |
| 3.4 | Prior to entering a tank, void or enclosed space, it is to be verified that the atmosphere in the tank is free from hazardous gas and contains sufficient oxygen. |
| 3.5 | Holds, tanks and other spaces subject to survey are to be cleaned, free from water, scale, dirt, oil residues etc.. |
| 3.6 | Safe lighting should be provided for the efficient conduct of the survey. |
| 3.7 | Necessary facilities for a safe execution of the survey should be provided to RS surveyor. |
| 3.8 | Where Soft Coatings have been applied, safe access is to be provided to verify the effectiveness of the coating and to carry out an assessment of the conditions of internal structures which may include spot removal of the coating. When safe access cannot be provided, the soft coating is to be removed. |
| 3.9 | If the survey and thickness measurements are planned at sea or at anchorage: |
| 3.9.1 | A communication system is to be arranged between the survey party in the spaces under examination and the responsible officer on deck. |
| 3.9.2 | Explosimeter, oxygen-meter, breathing apparatus, life line and whistles are to be at hand during the survey. |
| 4. | Planned scope of survey and thickness measurements of hull structures: |
| 4.1 | Minimum scopes of thickness measurements (including measurements carried out simultaneously with close-up survey) are in Attachment to this Protocol. |
| 4.2 | Thickness in existing and ascertained areas of substantial corrosion are to be measured annually in scope as required by RS Rules (IACS UR). |
| 4.3 | Thickness measurements of structures in areas where close-up surveys are required shall be carried out simultaneously with close-up surveys. |
| 4.4 | The Surveyor may further extend the close-up survey and thickness measurements as deemed necessary or if suspect areas will be found. |
| 4.5 | The surveyor should decide final extent and location of thickness measurements after overall survey of representative spaces onboard. |
| 4.6 | Where thickness measurements indicate substantial corrosion or excessive diminution the RS surveyor should direct locations for additional thickness measurements in order to delineate areas of substantial corrosion and to identify structural members for repairs / renewals. |
| 4.7 | In case when it is necessary to carry out additional thickness measurements on the basis of requirements of RS Surveyor, additional requirements shall be stated in RS report and annex to this protocol. |
| 4.8 | In applicable case when the scope of thickness measurements is reduced on the basis of current gauging and visual inspection, the fact of reducing shall be reflected by the RS surveyor in RS report, annex to this protocol insuring rightness of decision. |
| 5. | Availability onboard of drawings with original scantlings: |
| 5.1 | The shipowner should provide availability onboard of drawings with original scantlings. |
| 6. | Allowable thickness diminution of hull structures (refer to section I paragraph 8). |
| 7. | Communication between RS surveyor, thickness measurement operator and shipowner's representative. |
| 7.1 | Current results of thickness measurements shall be submitted to RS surveyor by the TM operator on a regular basis (refer to Annex 2 to the to the Rules for the classification surveys of ships in service). |
| 7.2 | Dates of the commencement and completion of thickness measurements of different areas (continuous monitoring) are subject to logs in Attachment by RS surveyor. |
| 7.3 | All parties should be promptly notified if the following defects will be found: |
| 7.3.1 | Excessive and/or extensive corrosion or pitting / grooving. |
| 7.3.2 | Other defects such fractures, ruptures, residual deformations, doublers, cement boxes etc.. |
| 7.3.3 | Detached and/or holed structure. |
| 7.3.4 | Corrosion of welds. |
| 8. | Reports upon the results of thickness measurements, gauging of parameters of deformations, cracks and other defects: |
| 8.1 | “Thickness Measurement Report” by form established by the Register shall be drawn up by thickness measurement operator. |
| 8.2 | A thickness measurement Report is to be signed by the operator. |
| 8.3 | RS surveyor shall review the final TM Report, verify according to the Check list (form 6.1.04) and countersign the TM Report. Check list (form 6.1.04) is not issued if the ТМ Report is drawn up using the «VOLNA» software. |
| 8.4 | Thickness measurements final Report should be submitted to RS surveyor carried out survey before completion of current survey |
| 8.5 | Before completion of current survey in addition the following documentation is to be submitted to the attending RS surveyor onboard: |
| 8.5.1 | Report on gauging of the hull defects parameters in accordance with the para 2.1.6 of Annex 2 to the Rules for classification surveys of ships in service; |
| 8.5.2 | in applicable cases: verification of the hull girder section modulus/ultimate section modulus according to item 2.1.6, 2.1.7 and 2.2.1 of the Annex 2 to the Rules for classification surveys of ships in service; |
| 8.5.3 | in applicable cases: assessment of longitudinal strength of the hull of an oil tanker (refer to sections 2 and 3 of part III of the Rules for classification surveys of ships in service). |
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| **Additional information, comments** |
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| **SIGNATURES AND STAMPS OF PARTIES:** |
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| Surveyor to RS |  |  |  |
|  | Signature | Date | Name |
| Seal |  |  |
|  |  |  |
| Ship owner’s representative |  |  |  |
|  | Signature | Date | Name |
|  |  |  |
| Master of the ship |  |  |  |
|  | Signature | Date | Name |
|  |  |  |
| TM Service Supplier operator |  |  |  |
|  | Signature | Date | Name |