

Objective Quality Evidence Attributes: Shipbuilding



Master List of Objective Quality Evidence Attributes: Shipbuilding

Purpose

This document defines the Objective Quality Evidence (OQE) attributes that may be assigned to catalogue parts.

Scope

This information applies to all personnel and contractors tasked with manufacturing and supplying components for any shipbuilding projects.

Any changes to the OQE attributes in this document must be reported to –

- ASC's Quality department, so that they can be assigned an inspection level IAW CMS-51208.
- ASC's Supply Chain department, so that changes can be deployed in the OQE automation tool used to generate OQE placeholders.

This document must also be published on the ASC website so that it is available to suppliers.

Definitions and Acronyms

Term / Acronym	Definition
OQE	Objective Quality Evidence
PTS	Purchase Technical Specification - A technical specification that defines the technical requirements for items that need to be purchased. PTSs can include certification information, OQE requirements and any details required to completely define a part and the supporting documentation.
SDRL	Supplier Data Requirement List

Details

Assigning Attributes to Non-PTS Items

ASC Engineering will assign OQE attributes from Table 1 to purchased catalogue items. Purchase orders generated from CONTROL shall list the assigned OQE attribute acronyms for each line item.

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng. / Quality	AC	Assembly Check	Is a statement of the build state of the delivered item.
ILS / Quality	BN	Batch Number	<p>The Batch Number is a unique identifier and can be referred to as a batch, heat, charge, cast, and lot number.</p> <p>Each batch of material used in the manufacture of a delivered item, is to be in accordance with the applicable standard and specification.</p> <p>Where required by applicable standards and specifications or Purchase Order requirements, the batch number shall be permanently stamped, stencilled, etched or Engraved on the delivered item(s) in a clearly visible location, except where an engineering determination deems this unacceptable in which case the batch number is to be detailed on the packaging or labelling.</p> <p>The Batch Number shall be recorded in the Manufacturer's Data Report and cross referenced to any other applicable documentation.</p>

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng. / Quality	BRS	Braze Certified Statement	<p>A statement certifying that the brazing associated with the manufacture of the delivered item was performed and inspected in accordance with the approved standard.</p> <p>The statement shall include reference to procedures, operator's qualifications, consumables and braze non-destructive testing. Reports shall be signed by a qualified welding inspector or equivalent. All these references should be available for inspection on request.</p>
Eng. / Quality	CAC	Test Equipment Calibration Certificate	<p>Certifies that the test equipment used to provide test results for the delivered item were calibrated in accordance with a NATA, or equivalent, standard.</p> <p>The certified statement shall include test equipment serial number and date of next calibration due.</p> <p>In lieu of a certified statement, copies of calibration certificates may be provided.</p>
Eng. / Quality	CTC	Calibration Test Certificate	<p>A calibration test certificate to be provided by a NATA or Equivalent ISO/IEC 17025 accredited testing organisation when requested to calibrate/refurbish items such as Inspection Measuring and Testing Equipment (IMTE), eg. gauges, relief valves etc.</p> <p>The Calibration Test Certificate shall contain as a minimum: Customer Purchase Order No and Revision No, Line No and ASC Part No, Item Tested/calibrated and Serial No, testing procedure, specification/standard (e.g. AS 1271) acceptance criteria, and as applicable; Test Pressure, Set/Relief/cracking Test Pressure, Re-seat Test Pressure, etc. result (pass/fail), testing medium, duration, type of IMTE instrument utilised to calibrating the requested item, Serial No. and next due date for calibration. The certificated shall be checked/endorsed by the organisation authorised personnel.</p> <p>NOTE: The certificate must state the condition of the IMTE/Item on receipt and if it was within calibration requirements.</p>
Eng./ Quality	CoC	Certificate of Conformance	<p>A certified statement by the supplier that the delivered item(s) meet all requirements of the Purchase Order or Contract.</p> <p>Each delivered item is to be identified as follows:</p> <ul style="list-style-type: none"> • Purchase Order Number/Contract Number • Line Number/Item Number • Item Description • ASC Part Number (NATO Stock Number or ASC Catalogue Number) • Quantity • Manufacturer's Part Number <p>If specified as a deliverable OQE attribute, the following additional information can be included in the CoC:</p> <ul style="list-style-type: none"> • Serial Number • Batch Number • Rubber Hardness • Rubber Cure Date • Use By/Shelf Life • Date Of Manufacture • Expiry Date • Software Version Number • Cleanliness Certification Statement • Weight Certification Statement

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng. / Quality	CT	Continuity Test	<p>A report that records continuity test details.</p> <p>The report is to record the serial number of the item under test and may be a separate document or form part of the Functional Performance Test Record.</p> <p>Test equipment serial numbers and calibration dates are to be recorded and can be combined with Test Equipment Calibration Certificate (CAC).</p>
Eng. / Quality	CTCL	Critical Items	<p>All ASC nominated Critical Items (CTCL) shall only be sourced from Sub-tier Manufacturers/Mills that are listed in the ASC list of Authorised/Approved Manufacturers/Mills.</p> <p>If critical items cannot be sourced from ASC authorised/approved manufacturers/mills, then the direct supplier shall ensure that independent qualification batch testing is carried out IAW criteria defined by ASC.</p> <p>ASC may also consider undertaking a quality audit of the Manufacturer/Mill manufacturing processes on a case by case basis.</p>
Eng. / Quality	DIR	Dimensional Inspection Record	<p>Records that certify that a Dimensional Inspection of the delivered item has been performed and that it complies with the approved standards, specifications or drawings.</p> <p>This record will include the equipment identification number and calibration information for the equipment used.</p>
Eng. / Quality	DNOT	Despatch Note	<p>Only applies to paint. Provides the following information:</p> <ul style="list-style-type: none"> • ASC Catalogue number • Manufacturer part number • Batch number • Quantity
ILS / Supply	DOM	Date of Manufacture	<p>States the date on which the delivered item was manufactured.</p> <p>The date is to be stated on the packaging.</p> <p>The date may be stated on a separate document or stated on the Certificate of Conformance.</p> <p>NOTE: When the Use by Date/Shelf Life is also an attribute, and Use By Date is provided, the Date of Manufacture is not required.</p>
Eng. / Supply	EXP	Certification Expiry Date	<p>Certifies the date on which the pressure vessel must be re-tested / re-certified in accordance with a standard.</p> <p>The certificate is to include the standard to which it was tested.</p>
Eng. / Quality	FPT	Functional / Performance Test Record	<p>Reports that certify the results of manufacturer's tests and inspection, e.g.; calibration, performance/operational/functional tests carried out on the delivered item.</p> <p>The report shall contain details of:</p> <ul style="list-style-type: none"> • The specifications/standards and references the testing is to be performed to • The procedure carried out • The pass/fail criteria • A list of support and test equipment used (refer CAC) • The results achieved from each test and inspection <p>This report may also include electrical, pressure and leak tests.</p>

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng. / Quality	HTR	Heat Treatment Record	<p>A report certifying that a Heat Treatment process has been performed on the batch of material, used in the delivered item, in accordance with the approved material standard.</p> <p>The report may be on a separate document or the Chemical Analysis Report or Mechanical Properties Test Report and is to include furnace ID and calibration details.</p> <p>The report shall state the Batch (heat, charge, cast, lot) Number of the material and shall be signed by a suitable signatory.</p>
Eng. / Quality	HVT	High Voltage Test	<p>A report that records high voltage test details.</p> <p>The report is to record the serial number of the item under test and may be a separate document or form part of the Functional Performance Test Record.</p> <p>Test equipment serial numbers and calibration dates are to be recorded and can be combined with Test Equipment Calibration Certificate (CAC).</p>
Eng. / Quality	IT	Insulation Test	<p>A report that records insulation test details.</p> <p>The report is to record the serial number of the item under test and may be a separate document or form part of the Functional Performance Test Record.</p> <p>Test equipment serial numbers and calibration dates are to be recorded and can be combined with Test Equipment Calibration Certificate (CAC).</p>
Eng. / Quality	ITP	Inspection and Test Plan	<p>A construction plan that details the sequence of steps proposed to fulfil a work requirement, the tests to be performed and identification of hold and witness points proposed and offered to the customer to verify.</p> <p>NOTE: Refer to the Shipbuilder Supplier Quality Assurance Manual (SQAM) for a generic ITP form/example.</p>
Eng. / Quality	LCS	Load Certified Statement	<p>A statement that the delivered item has been tested and certified, in accordance with a nationally approved standard, to be capable of lifting/carrying the specified load. A tally plate providing load test details is to be attached to each individual item supplied.</p> <p>NOTE: Ropes & cables are exempt from the tally plate requirements.</p>
Eng. / Quality	MDR	Manufacturer's Data Report	<p>Manufacturer's Data Report - A folder (or similar) which contains all compiled documentation required as Objective Quality Evidence (OQE), the extent of this OQE being specified in the Purchase Order, Contract or PTS.</p>
Eng. / Quality	MLT	Magnetic Leakage Test	<p>A report that records magnetic leakage test details.</p> <p>The report is to record the serial number of the item under test and may be a separate document or form part of the Functional Performance Test Record.</p> <p>Test equipment serial numbers and calibration dates are to be recorded and can be combined with Test Equipment Calibration Certificate (CAC).</p>

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng. / Quality	MPT	See MTC	See MTC
Eng./ Quality	MTC (previously MPT)	Mechanical Properties Test Report	<p>Mechanical Properties: Chemical Composition and Mechanical Characteristics Certificates.</p> <p>As a minimum certifies the results of Chemical Analysis, Mechanical and Physical tests performed (i.e. Chemical Composition, Tensile Test) on the back of material used in the delivered item, in accordance with the approved code/specification.</p> <p>The report shall state the batch (heat, charge, cast, lot) number and identify to the standard.</p> <p>The Material Certificates shall be in accordance with the requirements of BS EN 10204: 2004.</p>
General	NA	Not Applicable	To be applied when OQE is not applicable to an item.
ILS / Supply	PKG	Packaging Requirements	<p>For each delivered item, the following identification information shall be provided on the packaging of the delivered item(s):</p> <ul style="list-style-type: none"> • Purchase Order / Contract Number • Line or Item Number • Item Description • NATO Stock Number or ASC Catalogue Number <p>For elastomeric products i.e. O-rings, seals etc. - goods are to be packaged individually and in light excluding bags. Batch number, cure date and shelf life details are also to be provided on packaging.</p> <p>For paints, adhesives, oils, greases, and lubricants - batch number, date of manufacture and expiry date details are also to be provided on packaging or container.</p> <p>Additional packaging identification information may be stipulated by other attributes.</p>
Eng. / Quality	PRC	Paint Record Certified Statement	<p>A report that certifies that the delivered item is painted in accordance with the approved paint scheme.</p> <p>The batch number and expiry date of the paint shall be stated.</p> <p>The coating dry film thicknesses, times/dates and atmospheric conditions during application must be stated.</p> <p>Blasting details, records and profiles, if required, are to be included.</p>
Eng. / Quality	PTC	Pressure Test Certificate	<p>Certifies that Pressure Testing and or Leak Testing has been performed and records the requirements, test results and test equipment/gauges.</p> <p>The test report shall be provided and state the Serial or Batch (heat, charge, cast, lot) Number of items under test.</p> <p>Test Station ID, and pressure gauge serial number and calibration dates are to be provided and can be combined with Test Equipment Calibration Certificate (CAC).</p> <p>The test results can be included with the Functional/Performance Test results.</p>
ILS/Eng.	PTSSP	Procurement Technical Specification Spares	Spare parts sourced from the Original Equipment Manufacturer (OEM).

Attribute Type	Acronym	Brief Definition	Attribute Definition																		
ILS / Supply	RCD	Rubber Cure Date	<p>States the date on which the delivered rubber item was manufactured.</p> <p>The cure date is to be stated on the packaging.</p> <p>The cure date may be a separate document or stated on the Certificate of Conformance.</p>																		
Eng.	RHC	Rubber Hardness Certified Statement	<p>Certifies the shore hardness value of the delivered item.</p> <p>The shore hardness may be a separate document or stated on the Certificate of Conformance.</p>																		
Eng.	RIR	Radiographic Inspection Report	<p>Provides the results of Radiographic Testing performed on the batch of material, used in the delivered item, in accordance with the approved material standard.</p> <p>The report shall state the Batch (heat, charge, cast, lot) Number or Serial Number and shall be signed by a suitable signatory.</p>																		
Eng. / Quality	SDR	Surface Defect Report (Non Destructive Testing)	<p>Provides the results of inspection and non-destructive testing carried out on the surface integrity of delivered items in accordance with the approved standard.</p> <p>The report shall state the Batch (heat, charge, cast, lot) Number or Serial Number.</p> <p>The report, depending on the material, can be a visual/optical inspection, dye/ liquid penetrant examination, magnetic particle examination and shall be signed by suitable signatories.</p>																		
Eng.	SHCK	Shock Certificates	<p>A statement that the delivered item has been tested and certified in accordance with the required shock standard.</p> <p>The statement will include a description of how the delivered item has been certified, by Test, Analysis or Extension.</p>																		
Eng.	SHRD	Ships Hose Register Data	<p>Hose data is to be provided by the supplier or hose manufacturer. The data required is as follows:</p> <table border="0"> <tr> <td>Manufactured Date</td> <td>Manufacturer Name</td> </tr> <tr> <td>Hose Length</td> <td>Shelf Life</td> </tr> <tr> <td>Hose Diameter</td> <td>Working Pressure</td> </tr> <tr> <td>Proof Test pressure</td> <td>In-Service Fluid</td> </tr> <tr> <td>Maximum Working Pressure of Hose</td> <td>Catalogue Number</td> </tr> <tr> <td>Date Last Tested</td> <td>Hose Material</td> </tr> <tr> <td>Manufacturer's Part Number</td> <td>Functional Description</td> </tr> <tr> <td>NSN (if applicable)</td> <td>Serial Number</td> </tr> <tr> <td>Batch Number</td> <td></td> </tr> </table> <p>The hose data requirements are to be provided to the supplier or hose manufacturer in an appropriate template.</p>	Manufactured Date	Manufacturer Name	Hose Length	Shelf Life	Hose Diameter	Working Pressure	Proof Test pressure	In-Service Fluid	Maximum Working Pressure of Hose	Catalogue Number	Date Last Tested	Hose Material	Manufacturer's Part Number	Functional Description	NSN (if applicable)	Serial Number	Batch Number	
Manufactured Date	Manufacturer Name																				
Hose Length	Shelf Life																				
Hose Diameter	Working Pressure																				
Proof Test pressure	In-Service Fluid																				
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Date Last Tested	Hose Material																				
Manufacturer's Part Number	Functional Description																				
NSN (if applicable)	Serial Number																				
Batch Number																					
ILS	SN	Serial Number	<p>A Serial Number is a unique identification number for each individual delivered item. This Serial Number is nominated and maintained in a register by the supplier.</p> <p>The serial number shall be permanently stamped, stencilled, etched or Engraved on the delivered item in a clearly visible location and the number shall be recorded on the Manufacturer's Data Report and identified on the packaging.</p>																		
ILS / Supply	UBSL	Use by Date/Shelf Life	<p>States the maximum period the delivered item may be held in storage before use for its intended purpose.</p> <p>The Use by Date / Shelf Life is to be stated on the packaging.</p> <p>Whenever a Certificate of Conformance is provided, the Use by Date / Shelf Life is to be stated on this Certificate of Conformance.</p>																		

Attribute Type	Acronym	Brief Definition	Attribute Definition
Eng.	UIR	Ultrasonic Inspection Report	<p>Provides the results of Ultrasonic Testing performed on the batch of material, used in the delivered item, in accordance with the approved material standard.</p> <p>The report shall state the Batch (heat, charge, cast, lot) Number or Serial Number and shall be signed by a suitable signatory.</p>
Eng. / Supply	VER	Version Number	<p>States the Version Number of the software program that is loaded on the delivered item.</p> <p>The Version Number is to be stated on the packaging.</p> <p>The Version Number may be stated on a separate document or the Certificate of Conformance.</p>
Eng./ Quality	VIB	Vibration Certificate	<p>A statement that the delivered item has been tested and certified in accordance with the required vibration standard.</p> <p>The statement will include a description of how the delivered item has been certified, by Test, Analysis or Extension.</p>
Eng./ Quality	WCCS	Weight Control Certified Statement	<p>A report that certifies the actual weight of the delivered item.</p> <p>The statement can be included on the Certificate Of Conformance.</p>
Eng.	WCS	Weld Certified Statement	<p>A statement certifying that the welding associated with the manufacture of the delivered item was performed and inspected in accordance with the approved standard.</p> <p>The statement shall include reference to Welding Procedures, Welder Qualifications, Welding Consumables, Weld Maps and Weld Non Destructive Testing. Reports shall be signed by a qualified welding inspector or equivalent. All these documents should be available on request.</p>