

Fleet Solid Support Acquisition Cost D

INTRODUCTION

The purpose of this spreadsheet file is to capture the major areas of cost in the FSS proposal, so that potential misunderstandings by the Tenderer (of the ITN information) can be identified.

Tenderers are requested to complete the blue cells in the following sheets as best they can, with the cost information available to them at the time of Tendering. Tenderers should not have to generate any additional cost information purely for this spreadsheet. Costs are not expected to be precise.

Tenderers should use the explanations at the 'Definitions' tab and any cross-referenced ITN documents to ensure they have consistent understanding.

The Authority accepts that the Tenderers may use a different Cost Breakdown Structure as their standard. If this is the case, Tenderers are requested to group and map costs to the structure contained in this spreadsheet.

The cost data you provide within this spreadsheet will not directly form part of the evaluation criteria but will be used to support the Authority's evaluation of your technical response. This data will enable the Authority to identify any potential areas where the Tenderer has misunderstood the requirement and clarify those areas therefore Tenderers should attempt to be as accurate as possible

Data Capture Tool

SHEETS

FSS Contract WBS - This shows the overall contract structure. The boxes to complete are the top-level 'Demonstration' phase activities (Basic Design, Detailed Design, contract ILS work and Accreditation), and Project Management covering the whole contract, as well as the other Non-Recurring Engineering (NRE) items specified by the ILS Specification.

UPC - Ship 1, 2 and 3 - These show the WBS as listed in the Contract Evaluation Criteria (CEC) and the Illustrative Design. Tenderers are asked to complete the parts of the WBS, including the total cost for 'Long Lead Items'. The Authority anticipate that the costs for each ship will be different, because of 'Learner' and effects of supply chain commitments.

Definitions - This sheet provides explanations of the important topics in the spreadsheet.

The Tenderer is required to populate the blue boxes in the table below with cost information.

The Contract covers the items shown on the WBS to the right, with explanations at the end of the table.

This page covers Items supporting the Ship Design and Build (green blocks from the WBS) to Ships 1, 2 and 3.

The Tenderer should include costs in the following way:

- a. OVERALL ITEM COST of the particular element of the WBS (that is - not including sub-contract items)
- b. Cost will include all costs for labour, materials, overheads, and Sub-Contract items. Sub-Contract items should not be included.
- c. Separate MATERIALS cost for each item (covering specifically the costs for materials)
- d. Costs will be calculated at the year of Tendering (FY2019/20) with no inflation
- e. Costs will be in £ UK Sterling (Tenderer is to say what exchange rate has been used)
- f. LABOUR HOURS involved in completing that item.
- g. Statement of ESTIMATE MATURITY using the scale shown in 'Definitions'
- h. The Tenderer should use the 'Tenderer Comments' box to explain any assumptions.

This information will be used to alert the Authority to any potential misunderstanding or to request clarification questions with the respective Tenderer. The response will be compared against the illustrative design, and also against the other Tenders, but only to highlight inconsistencies.

WBS Item	Overall		
	Item Cost £	Materials £	Labour hours
Demonstration	£ -	£ -	-
Basic Design	£ -	£ -	-
Detailed Design	£ -	£ -	-
ILS	£ -	£ -	-
Accreditation	£ -	£ -	-
Project Management of whole contract	£ -	£ -	-
Non-Recurring Engineering (NRE)	£ -	£ -	-
Training Systems	£ -	£ -	-
Provision of Training	£ -	£ -	-
Reference Sets	£ -	£ -	-
Support & Test Equipment	£ -	£ -	-
Insurance Spares	£ -	£ -	-

Exchange rate used (if appropriate)	-	Enter currency (per £ sterling)
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Information relating to the Contract.

the 'Definitions' tab.

the WBS), whereas the remaining sheets concentrate on costs relating

ing profit, taxes or other fees)

is that the Tenderer is quoting for. Costs for Authority-Provided items

materials and subcontract items)

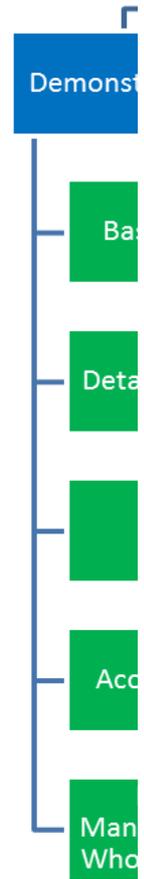
sed).

ns or interpretations they make in completing the sheet.

is the Tenderer may have had, and for the Authority to then raise

to the benchmark cost estimate produced for the Authority against the

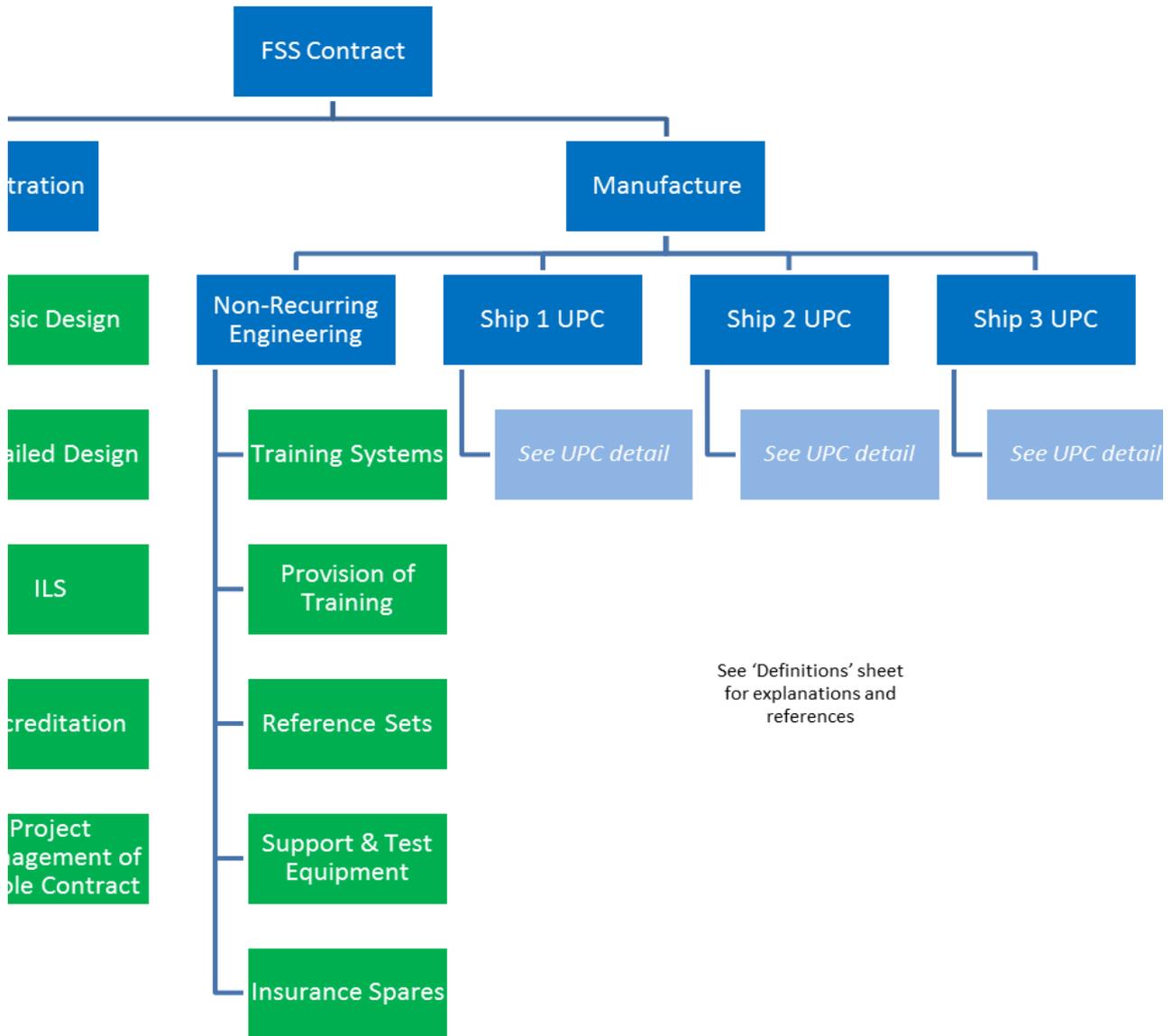
encies and potential misunderstanding.



Estimate Maturity	Tenderer comments, if needed (for example, what the estimate is based on)

erling) ?

FSS Contract WBS





The Tenderer is required to populate the blue boxes in the table below with information relating to the Work Breakdown Structure (WBS) using the numbering and structure shown in the Instructions to Tenderers Section D guidance, which aligns with the ESWBS and the Technical Specifications.

- a. OVERALL ITEM COST of the particular element of the WBS (that is - not including profit, taxes or other fees)
- b. OVERALL ITEM COST will include all costs for labour, materials, overheads, and Sub-Contract items that the Tenderer is quoting for and are included.
- c. Costs will be shown at the year of Tendering (FY2019/20) with no inflation
- d. Costs will be in £ UK Sterling (Tenderer is to say on sheet 'FSS Contract WBS' what exchange rate has been used, if appropriate)
- e. Separate MATERIALS cost for each item (covering specifically the costs for materials and Sub-Contract items)
- f. LABOUR HOURS involved in completing the manufacture/installation/commissioning of that particular item.
- g. Statement of ESTIMATE MATURITY using the scale shown in 'Definitions'
- h. The costs should add up to the total manufacture cost for Ship 1
- i. The authority understands that the WBS here may not precisely align with the Tenderer's WBS - In this case, the Tenderers are asked to provide explanation in the Tenderer Comments box to explain what they have done.

The Tenderer is also required to show separately below the total cost for 'Long Lead Items' in the build of Ship 1, that may need to be ordered at long delivery timescales. This information will be used to help inform analysis and understanding of payment profiles.

Ship WBS Item	Overall Item Cost £	Materials £	Labour hours	Estimate Maturity
1 Hull Structure	£ -	£ -	-	
100 Structure, General	£ -	£ -	-	
130 Hull Decks	£ -	£ -	-	
150 Superstructure	£ -	£ -	-	
160 Special Structures	£ -	£ -	-	
170 Masts and Funnels	£ -	£ -	-	
180 Foundations	£ -	£ -	-	
Other	£ -	£ -	-	
2 Propulsion Plant General	£ -	£ -	-	
230 Propulsion Units	£ -	£ -	-	
235 Electric Propulsion	£ -	£ -	-	

240 Transmission and Propulsor Systems	£	-	£	-	-	-
250 Propulsion Support Systems (Exc. Fuel and Lube Oil)	£	-	£	-	-	-
260 Propulsion Support Systems (Fuel and Lube Oil)	£	-	£	-	-	-
Other	£	-	£	-	-	-

3 Electrical	£	-	£	-	-	-
300 Electric Plant - General	£	-	£	-	-	-
310 Electric Power Generation	£	-	£	-	-	-
320 Power Distribution System	£	-	£	-	-	-
330 Lighting System	£	-	£	-	-	-
Other	£	-	£	-	-	-

4 Command and Surveillance	£	-	£	-	-	-
410 Command & Control Systems	£	-	£	-	-	-
420 Navigation Systems	£	-	£	-	-	-
430 Interior Communications - IPMS	£	-	£	-	-	-
440 Exterior Communications	£	-	£	-	-	-
450 Surveillance Systems, Surface & Air	£	-	£	-	-	-
490 Fire Control	£	-	£	-	-	-
Other	£	-	£	-	-	-

500 Auxiliary Systems	£	-	£	-	-	-
510 Climate Control	£	-	£	-	-	-
520 Sea Water Systems	£	-	£	-	-	-
530 Fresh Water Systems	£	-	£	-	-	-
540 Fuel Systems	£	-	£	-	-	-
550 Air, Gas & Misc Fluid Systems, inc 555 Firefighting	£	-	£	-	-	-
560 Ship Control Systems	£	-	£	-	-	-
570 Replenishment systems	£	-	£	-	-	-
573 Lifts	£	-	£	-	-	-
581 Anchor handling & stowage systems	£	-	£	-	-	-
582 Mooring & towing systems	£	-	£	-	-	-
583 Boats, Boat Handling and Stowage Systems	£	-	£	-	-	-
589 Cranes	£	-	£	-	-	-
Other	£	-	£	-	-	-

6 Outfit	£	-	£	-	-	-
61, 62, 63 General Outfitting	£	-	£	-	-	-

640 Living Spaces	£	-	£	-	-	
650 Service Spaces	£	-	£	-	-	
660 Working Spaces	£	-	£	-	-	
670 Stowage Spaces	£	-	£	-	-	
Other	£	-	£	-	-	

7 Armaments	£	-	£	-	-	
770 Cargo Munitions (to include dunnage, bin poles and flowforge)	£	-	£	-	-	

Supporting Items	£	-	£	-	-	
Initial Spares (shore based)	£	-	£	-	-	
On-Board Spares	£	-	£	-	-	
Training of Ship's crew	£	-	£	-	-	
Contractor sea trials	£	-	£	-	-	
Support to UK CCATS	£	-	£	-	-	

All other costs in UPC	£	-	£	-	-	
Other costs (to make up to UPC 100%)	£	-	£	-	-	n/a

UPC (100%)	£	-	£	-	-	hours
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Long-Lead Items	£	1	£	-		
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WBS) for the build of Ship 1 of the FSS fleet. The WBS follows Technical Specification. The data to be provided should be:

g for. Costs for Authority-Provided items should not be

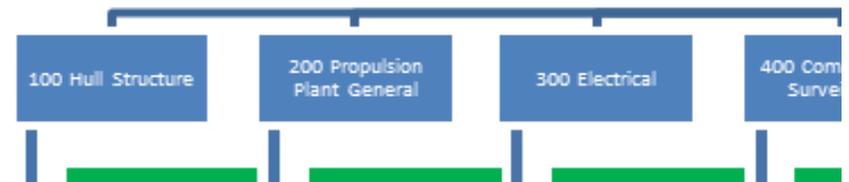
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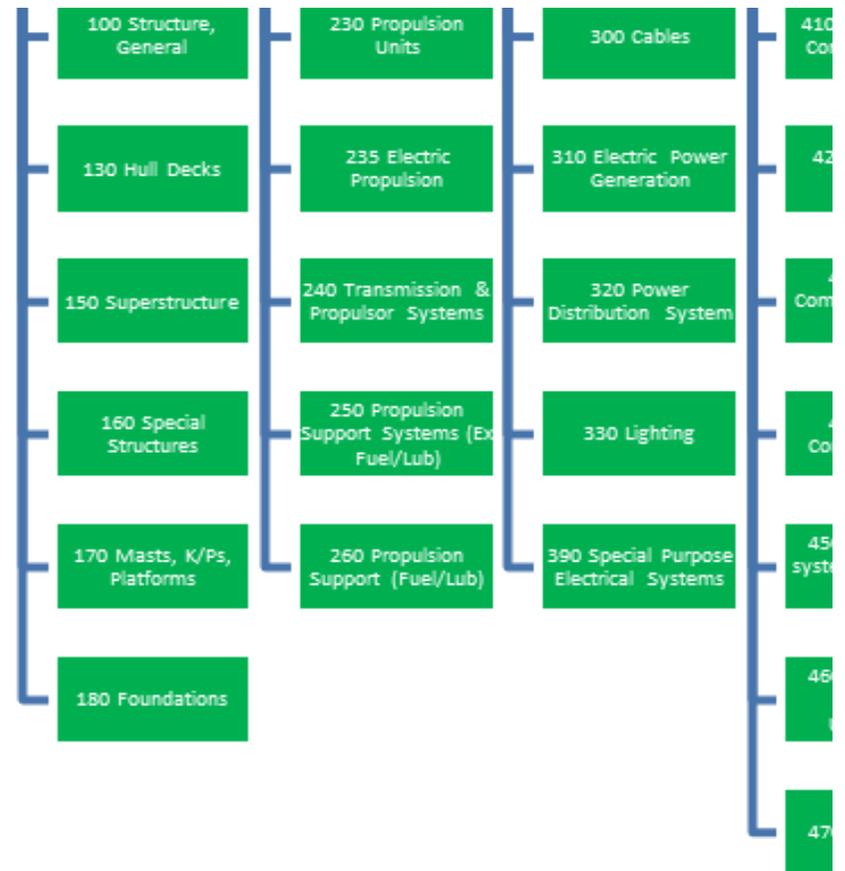
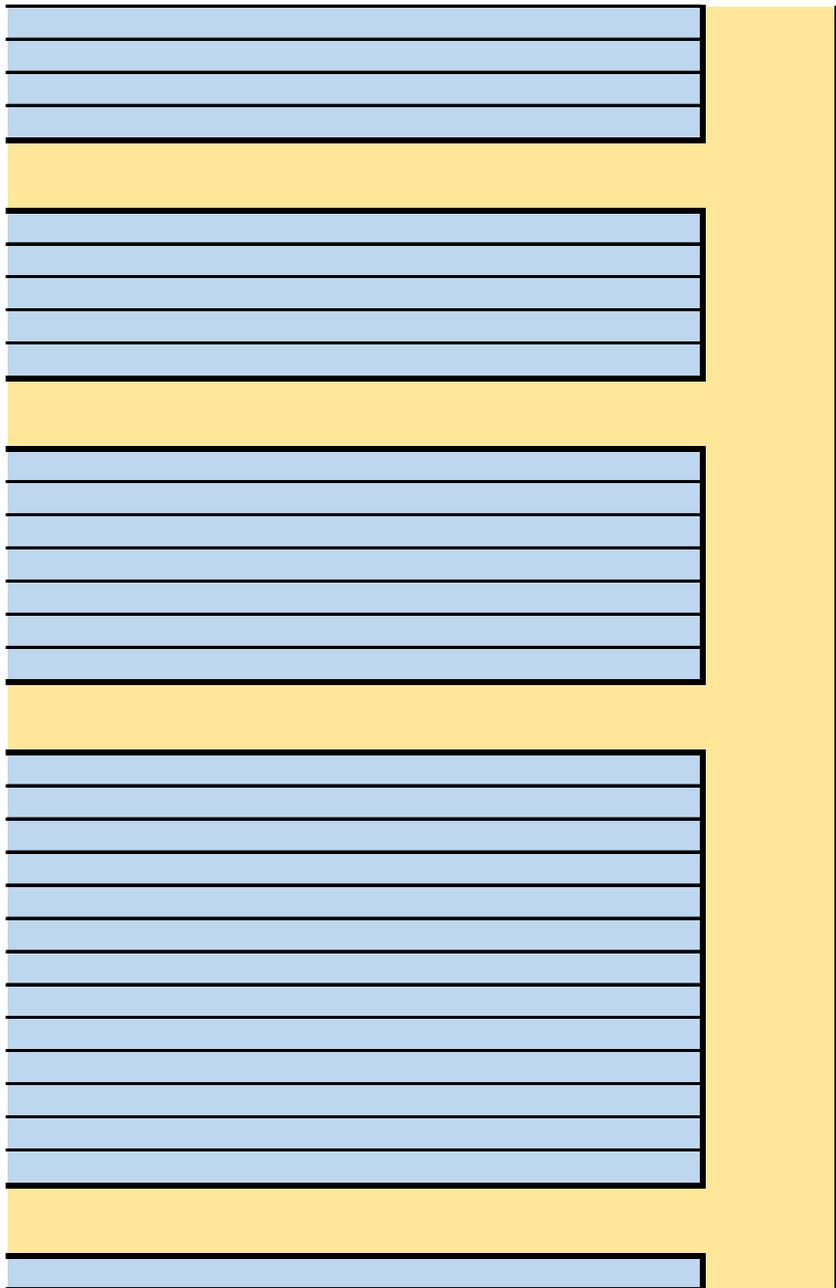
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be ordered as soon as their design is confirmed, due to their

Tenderer comments, if needed (for example, what the estimate is based on)

FSS Ship L





JPC Detailed WBS





566 EER & Boats

Long Lead Items

The Tenderer is required to populate the blue boxes in the table below with information relating to the Work Breakdown Structure (WBS) using the numbering and structure shown in the Instructions to Tenderers Section D guidance, which aligns with the ESWBS and the Technical Specifications.

- a. OVERALL ITEM COST of the particular element of the WBS (that is - not including profit, taxes or other fees)
- b. OVERALL ITEM COST will include all costs for labour, materials, overheads, and Sub-Contract items that the Tenderer is quoting for and are included.
- c. Costs will be shown at the year of Tendering (FY2019/20) with no inflation
- d. Costs will be in £ UK Sterling (Tenderer is to say on sheet 'FSS Contract WBS' what exchange rate has been used, if appropriate)
- e. Separate MATERIALS cost for each item (covering specifically the costs for materials and Sub-Contract items)
- f. LABOUR HOURS involved in completing the manufacture/installation/commissioning of that particular item.
- g. Statement of ESTIMATE MATURITY using the scale shown in 'Definitions'
- h. The costs should add up to the total manufacture cost for Ship 2
- i. The authority understands that the WBS here may not precisely align with the Tenderer's WBS - In this case, the Tenderers are asked to provide explanation in the Tenderer Comments box to explain what they have done.

The Tenderer is also required to show separately below the total cost for 'Long Lead Items' in the build of Ship 2, that may need to be ordered at long delivery timescales. This information will be used to help inform analysis and understanding of payment profiles.

Ship WBS Item	Overall Item Cost £	Materials £	Labour hours	Estimate Maturity
1 Hull Structure	£ -	£ -	-	
100 Structure, General	£ -	£ -	-	
130 Hull Decks	£ -	£ -	-	
150 Superstructure	£ -	£ -	-	
160 Special Structures	£ -	£ -	-	
170 Masts and Funnels	£ -	£ -	-	
180 Foundations	£ -	£ -	-	
Other	£ -	£ -	-	
2 Propulsion Plant General	£ -	£ -	-	
230 Propulsion Units	£ -	£ -	-	
235 Electric Propulsion	£ -	£ -	-	

240 Transmission and Propulsor Systems	£	-	£	-	-	-
250 Propulsion Support Systems (Exc. Fuel and Lube Oil)	£	-	£	-	-	-
260 Propulsion Support Systems (Fuel and Lube Oil)	£	-	£	-	-	-
Other	£	-	£	-	-	-

3 Electrical	£	-	£	-	-	-
300 Electric Plant - General	£	-	£	-	-	-
310 Electric Power Generation	£	-	£	-	-	-
320 Power Distribution System	£	-	£	-	-	-
330 Lighting System	£	-	£	-	-	-
Other	£	-	£	-	-	-

4 Command and Surveillance	£	-	£	-	-	-
410 Command & Control Systems	£	-	£	-	-	-
420 Navigation Systems	£	-	£	-	-	-
430 Interior Communications - IPMS	£	-	£	-	-	-
440 Exterior Communications	£	-	£	-	-	-
450 Surveillance Systems, Surface & Air	£	-	£	-	-	-
490 Fire Control	£	-	£	-	-	-
Other	£	-	£	-	-	-

500 Auxiliary Systems	£	-	£	-	-	-
510 Climate Control	£	-	£	-	-	-
520 Sea Water Systems	£	-	£	-	-	-
530 Fresh Water Systems	£	-	£	-	-	-
540 Fuel Systems	£	-	£	-	-	-
550 Air, Gas & Misc Fluid Systems, inc 555 Firefighting	£	-	£	-	-	-
560 Ship Control Systems	£	-	£	-	-	-
570 Replenishment systems	£	-	£	-	-	-
573 Lifts	£	-	£	-	-	-
581 Anchor handling & stowage systems	£	-	£	-	-	-
582 Mooring & towing systems	£	-	£	-	-	-
583 Boats, Boat Handling and Stowage Systems	£	-	£	-	-	-
589 Cranes	£	-	£	-	-	-
Other	£	-	£	-	-	-

6 Outfit	£	-	£	-	-	-
61, 62, 63 General Outfitting	£	-	£	-	-	-

640 Living Spaces	£	-	£	-	-	
650 Service Spaces	£	-	£	-	-	
660 Working Spaces	£	-	£	-	-	
670 Stowage Spaces	£	-	£	-	-	
Other	£	-	£	-	-	

7 Armaments	£	-	£	-	-	
770 Cargo Munitions (to include dunnage, bin poles and flowforge)	£	-	£	-	-	

Supporting Items	£	-	£	-	-	
Initial Spares (shore based)	£	-	£	-	-	
On-Board Spares	£	-	£	-	-	
Training of Ship's crew	£	-	£	-	-	
Contractor sea trials	£	-	£	-	-	
Support to UK CCATS	£	-	£	-	-	

All other costs in UPC	£	-	£	-	-	
Other costs (to make up to UPC 100%)	£	-	£	-	-	n/a

UPC (100%)	£	-	£	-	-	hours
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Long-Lead Items	£	1	£	-		
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WBS) for the build of Ship 2 of the FSS fleet. The WBS follows Technical Specification. The data to be provided should be:

g for. Costs for Authority-provided items should not be

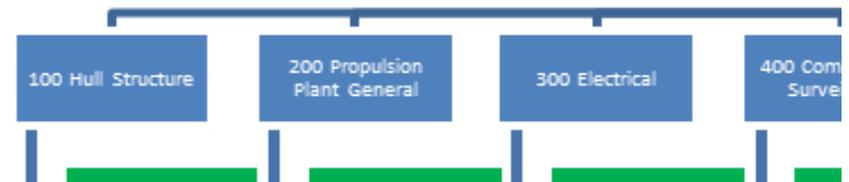
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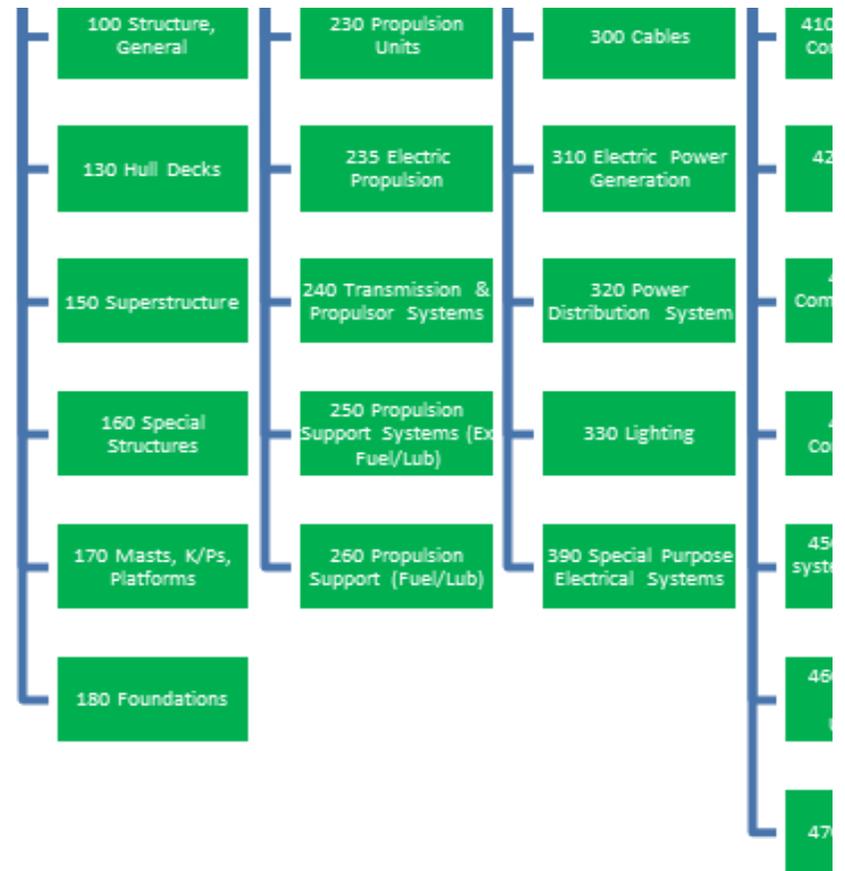
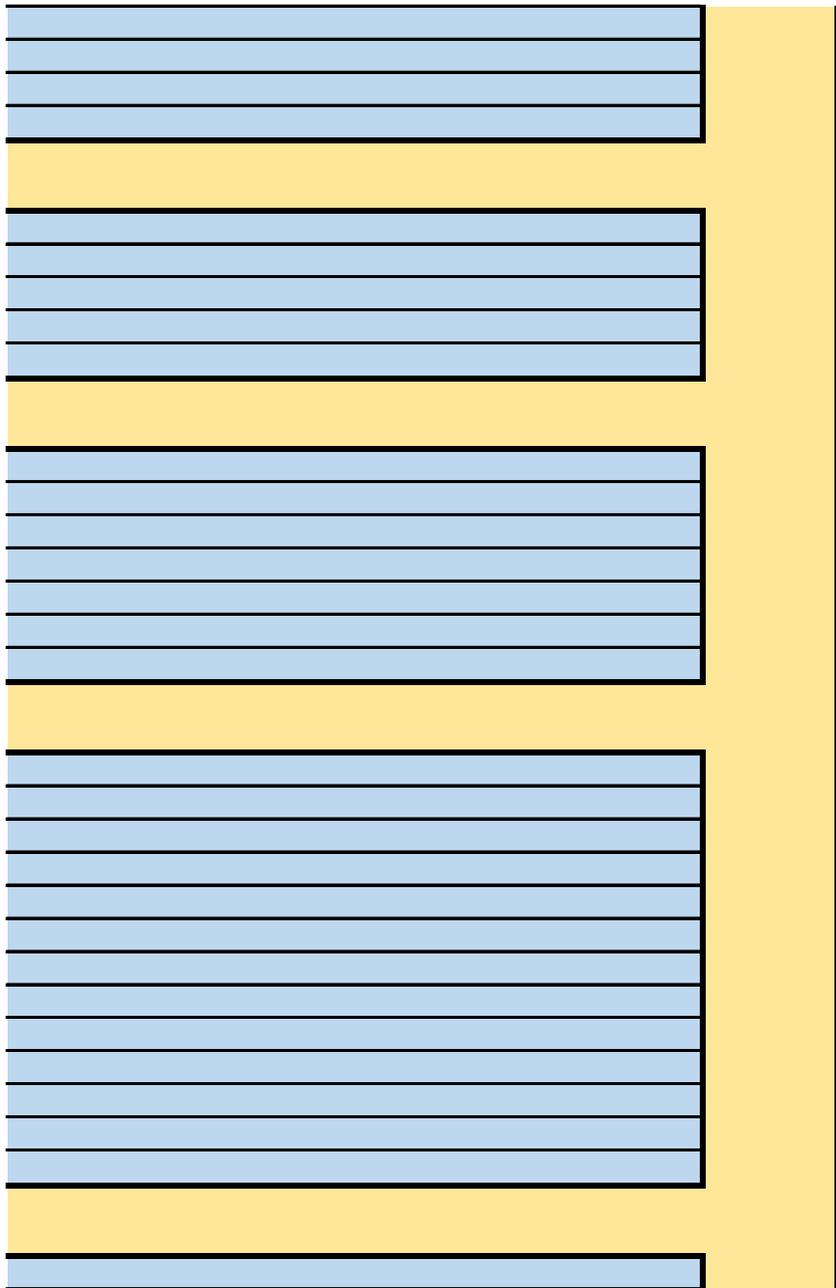
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be ordered as soon as their design is confirmed, due to their

Tenderer comments, if needed (for example, what the estimate is based on)

FSS Ship L





JPC Detailed WBS





See 'Definitions' sheet for explanations and references



566 EER & Boats

Long Lead Items

The Tenderer is required to populate the blue boxes in the table below with information relating to the Work Breakdown Structure (WBS) using the numbering and structure shown in the instructions to Tenderers Section D guidance, which aligns with the ESWBS and the Technical Specifications.

- a. OVERALL ITEM COST of the particular element of the WBS (that is - not including profit, taxes or other fees)
- b. OVERALL ITEM COST will include all costs for labour, materials, overheads, and subcontract items that the Tenderer is quoting
- c. Costs will be shown at the year of Tendering (FY2019/20) with no inflation
- d. Costs will be in £ UK Sterling (Tenderer is to say on sheet 'FSS Contract WBS' what exchange rate has been used, if appropriate)
- e. Separate MATERIALS cost for each item (covering specifically the costs for materials and Sub-Contract items)
- f. LABOUR HOURS involved in completing the manufacture/installation/commissioning of that particular item.
- g. Statement of ESTIMATE MATURITY using the scale shown in 'Definitions'
- h. The costs should add up to the total manufacture cost for Ship 3
- i. The authority understands that the WBS here may not precisely align with the Tenderer's WBS - In this case, the Tenderers are asked to provide explanation in the Tenderer Comments box to explain what they have done.

The Tenderer is also required to show separately below the total cost for 'Long Lead Items' in the build of Ship 3, that may need to be ordered with long delivery timescales. This information will be used to help inform analysis and understanding of payment profiles.

Ship WBS Item	Overall Item Cost £	Materials £	Labour hours	Estimate Maturity
1 Hull Structure	£ -	£ -	-	
100 Structure, General	£ -	£ -	-	
130 Hull Decks	£ -	£ -	-	
150 Superstructure	£ -	£ -	-	
160 Special Structures	£ -	£ -	-	
170 Masts and Funnels	£ -	£ -	-	
180 Foundations	£ -	£ -	-	
Other	£ -	£ -	-	
2 Propulsion Plant General	£ -	£ -	-	
230 Propulsion Units	£ -	£ -	-	
235 Electric Propulsion	£ -	£ -	-	

240 Transmission and Propulsor Systems	£	-	£	-	-	-
250 Propulsion Support Systems (Exc. Fuel and Lube Oil)	£	-	£	-	-	-
260 Propulsion Support Systems (Fuel and Lube Oil)	£	-	£	-	-	-
Other	£	-	£	-	-	-

3 Electrical	£	-	£	-	-	-
300 Electric Plant - General	£	-	£	-	-	-
310 Electric Power Generation	£	-	£	-	-	-
320 Power Distribution System	£	-	£	-	-	-
330 Lighting System	£	-	£	-	-	-
Other	£	-	£	-	-	-

4 Command and Surveillance	£	-	£	-	-	-
410 Command & Control Systems	£	-	£	-	-	-
420 Navigation Systems	£	-	£	-	-	-
430 Interior Communications - IPMS	£	-	£	-	-	-
440 Exterior Communications	£	-	£	-	-	-
450 Surveillance Systems, Surface & Air	£	-	£	-	-	-
490 Fire Control	£	-	£	-	-	-
Other	£	-	£	-	-	-

500 Auxiliary Systems	£	-	£	-	-	-
510 Climate Control	£	-	£	-	-	-
520 Sea Water Systems	£	-	£	-	-	-
530 Fresh Water Systems	£	-	£	-	-	-
540 Fuel Systems	£	-	£	-	-	-
550 Air, Gas & Misc Fluid Systems, inc 555 Firefighting	£	-	£	-	-	-
560 Ship Control Systems	£	-	£	-	-	-
570 Replenishment systems	£	-	£	-	-	-
573 Lifts	£	-	£	-	-	-
581 Anchor handling & stowage systems	£	-	£	-	-	-
582 Mooring & towing systems	£	-	£	-	-	-
583 Boats, Boat Handling and Stowage Systems	£	-	£	-	-	-
589 Cranes	£	-	£	-	-	-
Other	£	-	£	-	-	-

6 Outfit	£	-	£	-	-	-
61, 62, 63 General Outfitting	£	-	£	-	-	-

640 Living Spaces	£	-	£	-	-	
650 Service Spaces	£	-	£	-	-	
660 Working Spaces	£	-	£	-	-	
670 Stowage Spaces	£	-	£	-	-	
Other	£	-	£	-	-	

7 Armaments	£	-	£	-	-	
770 Cargo Munitions (to include dunnage, bin poles and flowforge)	£	-	£	-	-	

Supporting Items	£	-	£	-	-	
Initial Spares (shore based)	£	-	£	-	-	
On-Board Spares	£	-	£	-	-	
Training of Ship's crew	£	-	£	-	-	
Contractor sea trials	£	-	£	-	-	
Support to UK CCATS	£	-	£	-	-	

All other costs in UPC	£	-	£	-	-	
Other costs (to make up to UPC 100%)	£	-	£	-	-	n/a

UPC (100%)	£	-	£	-	-	hours
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Long-Lead Items	£	1	£	-		
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WBS) for the build of Ship 3 of the FSS fleet. The WBS follows Technical Specification. The data to be provided should be:

for. Costs for Authority-provided items should not be included.

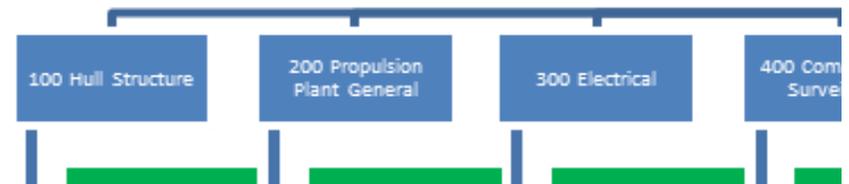
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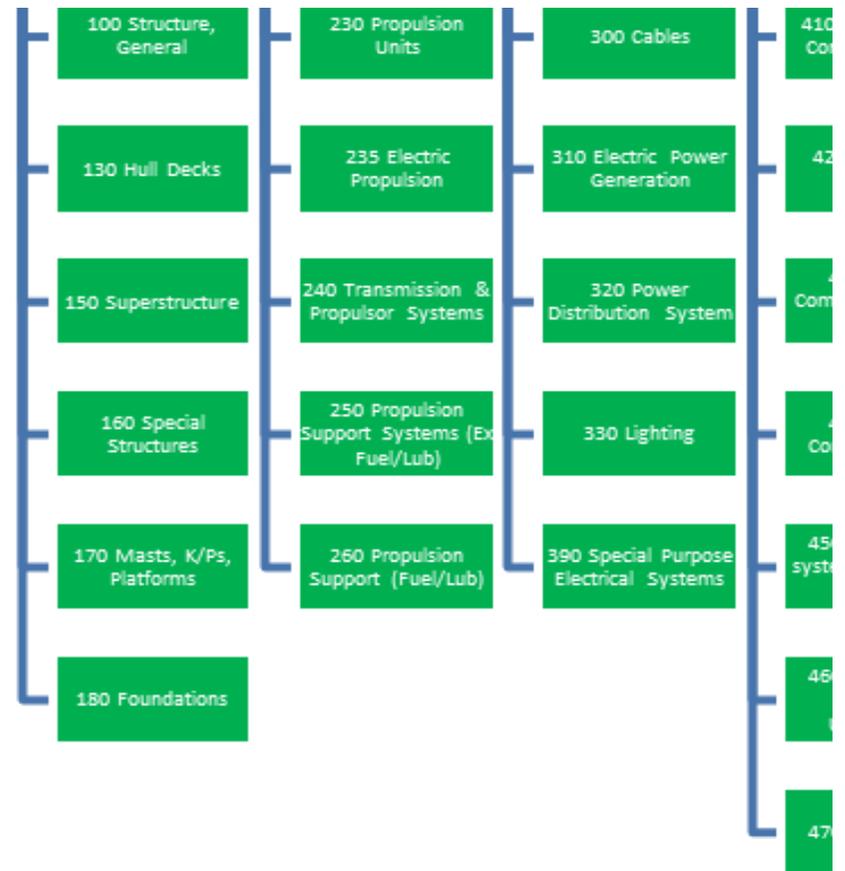
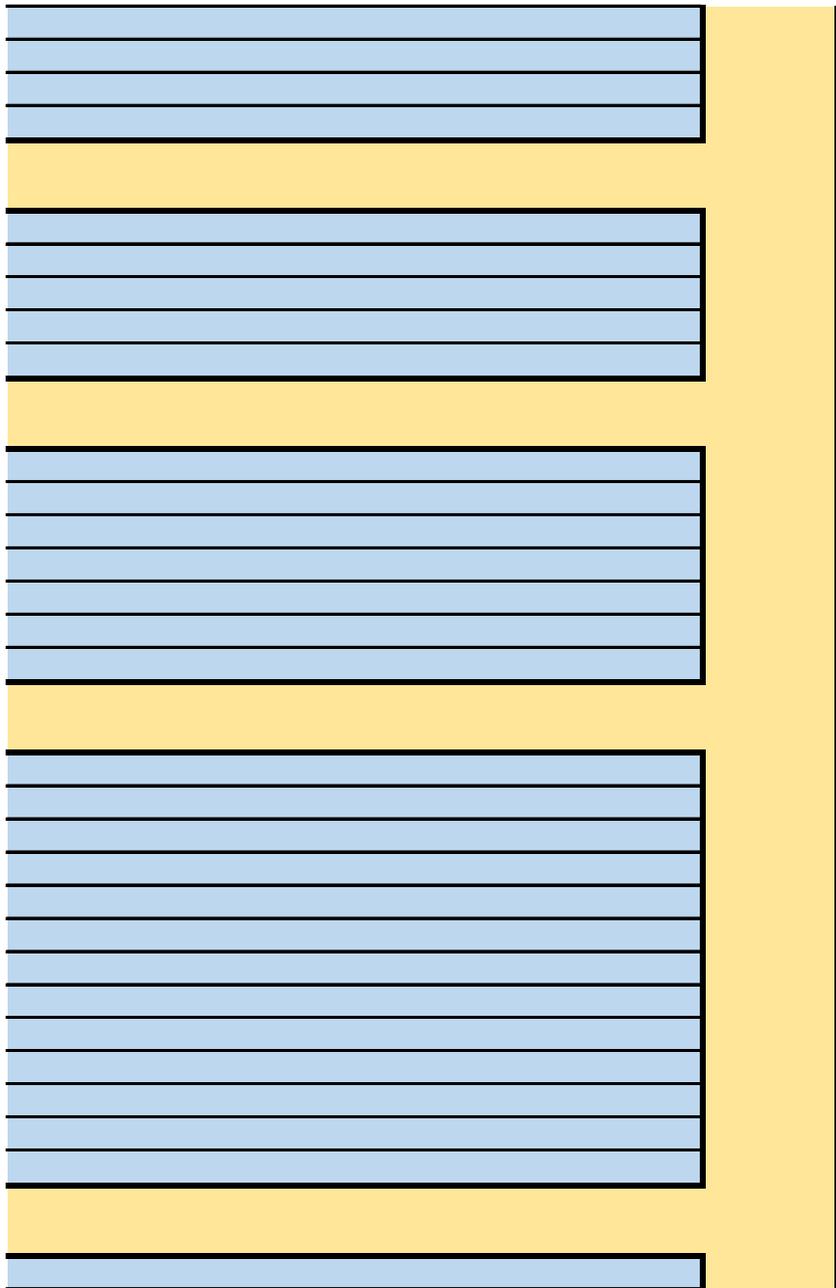
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be ordered as soon as their design is confirmed, due to their

Tenderer comments, if needed (for example, what the estimate is based on)

FSS Ship L





JPC Detailed WBS





See 'Definitions' sheet for explanations and references



566 EER & Boats

Long Lead Items

DEMONSTRATION	Basic Design
	Detailed Design
	ILS
	Accreditation
	Project Management of Whole Contract
MANUFACTURE (NRE)	Training Systems
	Provision of Training
	Reference Sets
	Support & Test Equipment

	(Major) Insurance Spares
UPC (Per ship)	Initial Spares
	Onboard Spares
	Training of Ship's Crew
	Contractor Sea Trials
	Support to UK CCATS

	Data Readiness Levels
Low Maturity	DRL 1
	DRL 2
	DRL 3
Medium Maturity	DRL 4
	DRL 5
	DRL 6
High Maturity	DRL 7
	DRL 8
	DRL 9

Definition
<p>The design activities from Contract award through to successful completion of Preliminary Design Review (PDR).</p> <p>It is assumed that this activity will be for the FSS Class. Any design activities specific to each Ship should be included in the 'UPC' estimate for each Ship, under 'Others' for this template.</p>
<p>The design activities from PDR through to successful completion of Critical Design Review (CDR).</p> <p>It is assumed that this activity will be for the FSS Class. Any design activities specific to each Ship should be included in the 'UPC' estimate for each Ship, under 'Others' for this template.</p>
<p>Costs to comply with the Authority's ILS Specification. Please exclude the costs of producing: Training Systems; Provision of Training; Reference Sets; Support and Test Equipment; Major Insurance Spares; Onboard Spares; and Initial Spares as the costs of these are asked for separately.</p>
<p>This covers the activities the successful Tenderer will need to perform to ensure that the needs of the Authority's accreditation stakeholders are complied with. Currently these include the Maritim Coastguard Agency (MCA), the Classification Society, and Information Security assessors. This is a potentially small value aspect of the Contract proportionally, but has big consequences if underestimated, so the Authority needs assurance it has been considered thoroughly. Please include these costs for the Class and also for individual Ships.</p>
<p>This covers the activities required to plan and manage the Contract from Contract award through to completion of the Contract, in accordance with Schedule 2 (PM Specification).</p>
<p>This covers the training equipment, training aids, simulators and documentation for the Ships. It is assumed to be held in shore-based facilities.</p>
<p>This covers the 'continuation training' for preparing future crews to safely operate the Ships. It includes the initial cost of a Training Needs Analysis, as well as the Tenderer's estimated costs for a ten (10) year programme of continuation training. The Authority will use this cost information in the comparison of the Tenders to highlight inconsistencies between Tenderers and therefore potential misunderstandings.</p>
<p>This element covers the supply of reference equipment, in addition to the Training Systems that the ITN requests.</p>
<p>This refers to the supply of all Support & Test Equipment (S&TE) needed in the operation and maintenance of the Ships. It includes both shore-based and Onboard S&TE. See the ILS Specification for detailed explanation.</p>

These are referred to in the ILS Spec as 'Category 4 Spares' and covers parts which, under normal circumstances, would be expected to last for the operational life of the Ship, but would be required, should a catastrophic failure of an item of machinery or equipment occur. They are also parts which are high cost items or have long delivery lead times, which if not stocked, could render the Ship inoperative or, at the very least, reduce the Ship's operational capability for an extended period of time. Replenishment of used Major Insurance Spares is not included here.

These are the shore-held spares to cover planned equipment overhaul activities and are called 'Category 3 Spares' in the ILS Specification.

These are the spares called 'Category 1 spares' in the ILS Specification and refer to spares required to support routine and preventative maintenance activities, and also the likely corrective maintenance activities, within the capability of Ship Staff.

For the purposes of this questionnaire, Onboard Spares also include the spares held on shore to replace the Category 1 spares that are used on-ship. These 'Onboard' spares held on shore are referred to as 'Category 2 Spares' in the ILS Specification.

This covers the 'Interim Training', in accordance with ILS Specification, and includes the Crew Operator/Maintainer training.

Contractor's Sea Trials are the responsibility of the Contractor, to demonstrate compliance with the Assurance Criteria of the Technical Specification.

This covers the activities needed by the Contractor to support the UK CCATS Contractor in the execution of their contract, in accordance with Part 2 of the PM Specification

Estimate based on.....

Single Subject-Matter Expert's (SME) opinion

Consensus of SMEs' opinions, through an estimating workshop/Delphi approach

Historical contract costs, combined with SME consensus

Like-for-like contracts, or trend analysis of particular items

Engineering estimates, or high-level rough estimates from suppliers

Detailed bottom-up costing, firm 'catalogue' prices, or known recent contract costs

Detailed quotations from suppliers for the exact system required.

Firm prices, on contract already with the Tenderer technical requirements identical to FSS.

Actual costs of equipment already purchased.

Reference
PM spec figure 4 (1.1 PDR) and associated references
PM spec figure 4 (1.2 CDR) and associated references
ILS Specification
PM Spec 2.5.4 and 2.5.5
PM Specification
ILS Spec 089.3, 089.4, 089.7
ILS Spec 089.1, 089.3, 089.8, 089.9
ILS Spec 082

ILS Spec 083.3
ILS Spec 083.3
ILS Spec 083.3
ILS Spec 089.6
PM Spec 2.5.7, Figure 4 and 2.10.8
PM specification, Part 2.