RA 1395 - Authorization to Permit Embarked Aviation in His Majesty's / MOD Ships

Rationale	Operating embarked aviation requires the integration of two complex independent systems, Ship and Air System, which are operated through separate Ship Duty Holder (DH) / Accountable Person (AP) and Aviation Duty Holder (ADH) / Accountable Manager (Military Flying) (AM(MF)) constructs. The safe conduct of this embarked activity requires that the Risk to Life (RtL) associated with operating Air Systems from Ships ▶ is ◀ understood and that the scope and boundaries of such operations are clearly defined. The Ship Air-Release (SA-Release) is the document that Authorizes a specified Class of His Majesty's (HM) / MOD Ship ¹ and Air System Type / Mark to conduct embarked aviation activity. The SA-Release is underpinned by Safety documentation for the Ship / Air System combination and contains vital Safety information and operating limitations.	
Contents	 1395(1): ► < Embarked Aviation in His Majesty's / MOD Ships 1395(2): Ship Air-Release 1395(3): Ship Air-Release Recommendation 1395(4): Ship-Air Special Releases 1395(5): Ship Air-Release – Remotely Piloted Air Systems 	
Regulation 1395(1)	 Embarked Aviation in His Majesty's / MOD Ships 1395(1) Permission to conduct embarked aviation in aviation- capable² HM / MOD Ship Classes shall be Authorized. 	
Acceptable Means of Compliance 1395(1)	 Embarked Aviation in His Majesty's / MOD Ships Where the requirement for a Ship and Air System to conduct embarked aviation exists, the combination should be Authorized through a SA-Release. Where, by exception: Circumstances of operational need or short term and unlikely to be repeated requirements, make it impractical for the SA-Release process to be followed in full. In such situations, the Ship Operating DH (ODH) / AP and ADH / AM(MF) should Authorize specified Ship / Air System combinations to conduct embarked aviation outside of established orders only after dynamic, pan Defence Lines of Development (DLoD) assessments of the associated Risks are conducted and prescribing specific Assurance and mitigation. In these circumstances, the processes required to generate a SA-Release should be followed as far as reasonably practicable. Situations of very short notice where operational circumstances are such that it is impractical for the Ship ODH and ADH to grant Authorization, the Ship's Delivery Duty Holder (DDH)³ or the Operational Commander⁴ should only Authorize specified Ship / Air System combinations to conduct embarked aviation outside of established orders after dynamic Risk Assessments are conducted and the prescribing of specific Assurance and mitigation. In such circumstances the Ship DDH / Operational Commander should inform the ADH / AM(MF), the Ship Platform Authority (PA), the Ship ODH and Navy Command Headquarters (NCHQ) Naval Aviation Division (NAvn) as soon as reasonably practicable. 	

¹ As defined in the DSA03-DMR-Shipping Regulatory Terms and definitions for DSA 02-DMR Defence Maritime Regulations.

² Defined as those which can be categorized as Applicability Level A, B or C in Defence Standard 00-133 Part 1.

³ As defined in ►JSP 815 – Defence Safety Management System, Element 5. ◄

⁴ Embarked aviation activity involving operational tasking (eg Search and Rescue Operations) will not necessarily be conducted in an 'Operational Theatre' but requires use of the Air System by an Operational Commander in a manner described in RA 1020(1): Role and Responsibilities of the Aviation Duty Holder. The Ship's Commanding Officer (CO) or DDH Authorizes aviation activity from their Ship and may be the Operational Commander, or the role of Operational Commander may be performed by a third party; in either circumstance, the Ship's CO or DDH remains responsible for immediate RtLto personnel on the Ship.

Acceptable Means of Compliance 1395(1)	 The Release To Service (RTS)⁵ or appropriate Military Permit To Fly (MPTF)^{6, 7} of an Air System should generically permit the Air System to operate in a maritime role and conduct embarked operations to HM / MOD Ships. A SA-Release is not required for short term and / or non-enduring nature Crossdeck Operations. Such activity should be conducted in accordance with (iaw) BRd 766⁸. The Ship DH and ADH / AM(MF) chain should remain Accountable for the safe operation of the Ship / Air System and that RA 1026⁹ still applies in the case of HM / MOD ships. NCHQ NAvn advice should determine if the activity may be considered appropriate to be conducted iaw MPP-02¹⁰ or whether a specific clearance is required. In such circumstances the Ship DH and ADH / AM(MF) chains should ensure, as a minimum that the associated procedures detailed in BRd 766 are followed.
Guidance Material 1395(1)	 Embarked Aviation in His Majesty's / MOD Ships SA-Release The SA-Release will be generated iaw RA 1395(2) and Authorized by the Royal Navy RTS Authority (RN RTSA) for Air Systems required to embark in HM / MOD Ships. The SA-Release process provides a clearance for a Ship Class to conduct embarked aviation with a specified Air System Type / Mark iaw established orders as directed in RA 2309(18)¹¹. This process is illustrated at Annex A Figure 1, and must < be read in conjunction with < RA 1029¹². Once Authorized, the SA-Release will remain valid throughout the lifetime of the Ship-Air System combination unless amended or withdrawn. Authorization to Permit HM / MOD Ships and Air Systems to Conduct Embarked Aviation Outside of Established Orders An abridged route is detailed in Annex A, Figure 2 for conducting specific, short notice urgent or short term operations and unlikely to be repeated requirements that do not fall within the existing clearances and orders. Clearance in such circumstances is achieved through the Ship ODH and ADH / AM(MF) conducting dynamic, pan DLoD assessments of individual Ship and Air System Risks to ensure procedural Safety mitigations can be implemented as required for any given operational requirement. Such Assurance and operation specific direction will be used to mitigate specific Ship shortfalls (such as limited Ship's Company experience and / or training shortfalls; equipment deficiencies; etc) or aviation shortfalls (such as crew currency; Aircraft deficiencies; specific climatic conditions; etc). Such abridged Authorizations will be temporary in nature. For scheduled deployments, operational planners would be expected to ensure that all SA-Release for expected combinations of Ships and Air Systems are in place following the SA-Release process in Annex A, Figure 1. The complexity and depth of these Ship ODH and ADH / AM(MF) assessments will be tailored dependent upon the spe
	 9. In all circumstances where the Ship and / or Air Systems do not meet the requirements defined in the established orders, these assessments are required before operations commence, to ensure both Ship ODH and ADH / AM(MF) fully understand the RtL associated with their respective platforms. Although in such circumstances formal independent RN RTSA Authorization may not be achievable in the time available, both Ship ODH and ADH / AM(MF) > must < consider seeking Subject Matter Expert (SME) advice from relevant departments within Defence

⁸ Refer to BRd 766 – Embarked Aviation Orders.
 ⁹ Refer to BRd 766 – Aerodrome Operator and Aerodrome Supervisor (Recreational Flying) Roles and Responsibilities.
 ¹⁰ For crewed aviation, refer to MPP-02: Volume I – Helicopter Operations from Ships Other Than Aircraft Carriers (HOSTAC); Volume II – Multinational Through-Deck and Aircraft Carrier Crossdeck Operations (MTACCOPS).

 ⁵ Refer to RA 1300 – Release To Service.
 ⁶ Refer to RA 5880 – Military Permit To Fly (Development) (MRP Part 21 Subpart P).
 ⁷ Refer to RA 1305 – Military Permit To Fly (In-Service), (Special Case Flying) and (Single Task).

 ¹¹ Refer to RA 2309(18): Embarked Aviation Operations.
 ¹² Refer to RA 1029 – Ship Air-Release - Roles and Responsibilities.

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Guidance Material	Equipment & Support (DE&S), Front Line Commands, Ship PA, NCHQ NAvn and RTSAs ¹³⁴ / Sponsor ¹⁴⁴ .				
1395(1)	Embarkation of Non-MOD Air Systems				
	10. Where the requirement for Foreign Air Systems ¹⁵ to conduct embarked aviation is enduring, then the issue of a SA-Release will be required. In such circumstances, where no UK ADH / AM(MF) chain and / or Type Airworthiness Authority (TAA) ¹⁶ ex the requirement sponsor is responsible for providing information on the Air System ¹⁷ iaw RA 1395(2) paragraph 15.				
	Embarkation in Non-HM / MOD Ships				
	11. UK Military registered Air System embarkations in non-HM / MOD Ships are outside of this Regulation, however in order to manage RtL, ADHs / AM(MF)s will follow the principles of SA-Release when planning embarkations, utilizing the guidance within this RA, BRd 766 and MPP-02. Further advice will be sought from NCHQ NAvn and the RN RTSA.				
	Risk to Life boundary demarcation				
	12. The Ship DH / AP is Accountable for the RtL of an individual aboard a ship, that is due to embark on an Air System, until they are taken under the supervision of the Aircraft's crew or pass under the Aircraft's main rotor (whichever occurs first), at which point the ADH / AM(MF) becomes Accountable for the RtL that the Air System poses to them. Additionally, the ADH / AM(MF) would be Accountable for the RtL of an individual embarked on an Air System until they are taken under the supervision of the Flight Deck Crew or pass from underneath the Aircraft's main rotor (whichever occurs first) after which Accountability passes to the Ship DH / AP. If rotors (or engines for Fixed Wing Air Systems) are not turning then the transition point is on entry / exit to / from the Aircraft.				
Regulation	Ship Air-Release				
1395(2)	1395(2) The RN RTSA shall review pan DLoD evidence and if satisfied authorize an SA-Release.				
Acceptable	Ship Air-Release				
Means of Compliance 1395(2)	13. The SA-Release should be an integrated, limitations based document with all associated Safety information, operating limits and constraints included in the appropriate part and underpinned by the following considerations:				
	a. The SA-Release should be supported by evidence from all DLoDs ¹⁸ based on:				
	(1) An Equipment DLoD based SA-Release Recommendation produced by the Ship PA and the TAA; RA 1395(3) refers.				
	(2) Non-Equipment DLoD assessments drawn from the Ship DH / AP and ADH / AM(MF) as appropriate.				
	b. The SA-Release should specify the subject Ship Class and Air System Type / Mark combination.				

¹³ For Military Registered Civilian-Owned and Civilian Operated Air Systems, the Sponsor fulfils the role of Air System RTSA. ¹⁴ Refer to RA 1019 – Sponsor of Military Registered Civilian-Owned and Civilian Operated Air Systems - Air Safety Responsibilities.

 ¹⁵ Refer to RA 1029(4): Foreign Air System Sponsor: Roles and Responsibilities.
 ¹⁶ Where the Air System is non-UK MOD-owned, Type Airworthiness (TAw) management regulatory Responsibility by either the TAA or Type Airworthiness Manager (TAM) needs to be agreed within the Sponsor's approved model; refer to RA 1162 - Air Safety Governance Arrangements for Civilian Operated (Development) and (In-Service) Air Systems, or refer to RA 1163 - Air Safety Governance Arrangements for Special Case Flying Air Systems. Dependant on the agreed delegation of TAw responsibilities TAM may be read in place of TAA as appropriate throughout this RA.

¹⁷ For example, flight performance, hazardous materials, lost-link protocol of Remotely Piloted Air Systems (RPAS), Electro-magnetic Compatibility (EMC) vulnerability etc.

¹⁸ For UK Military Registered Air Systems see also RA 1205 – Air System Safety Cases; For HM / MOD Ships see DSA02-DMR – Defence Maritime Regulations for Health, Safety and Environmental Protection.

Acceptable Means of	c. The 'as flown' standard of the subject Air System Type / Mark should be defined as suitable for the proposed aviation activities at sea.				
Compliance 1395(2)	d. The 'as operated' Configuration of the Ship platform (associated w aviation arrangements, equipment and crewing) should be defined and suitable for the proposed aviation activities.				
	e. The identified RtL associated with integration and operation of the subject Ship / Air System combination, across all DLoDs, should be demonstrated to be As Low As Reasonably Practicable and Tolerable, and owned by the Ship DH / AP or ADH / AM(MF). Procedural Safety mitigations, including those identified in the Ship Safety Assessment and Air System Type Airworthiness Safety Assessment (TASA) should be included in a ADH / AM(MF) SA-Releas Safety Statement and supported by a claim-argument-evidence based Safety Case ¹⁹ which should be reflected in the SA-Release.				
	14. The content of the SA-Release should :				
	a. Be maintained by the RN RTSA; supported by the Ship DH / AP, Ship PA, ADH / AM(MF), TAA ¹⁶ , Air System RTSA ¹³ , and Sponsor ¹⁴ as appropriate.				
	b. Include an Audit trail of amendments.				
	c. Be subject to a formal review on a routine basis ²⁰ .				
	15. For non-UK Military Registered Air Systems where no UK ADH / AM(MF) and / or TAA exists, the Foreign Air System Sponsor ¹⁵ should be responsible for:				
	a. Providing the Air System Equipment DLoD Safety evidence associated with the production of a SA-Release Recommendation to DE&S following the principles in RA 1395(3). The requirement sponsor should not be responsible for managing Type or Continuing Airworthiness as this remains the Responsibility of the civil Air System Type Certificate / Supplementary Type Certificate ²¹ holder, Continuing Airworthiness Manager or AP within the Foreign Air System operating authority.				
	b. Providing the non-Equipment DLoD Safety evidence associated with the production of a SA-Release to the RN RTSA. The requirement sponsor should not be responsible for managing 1 st party RtL of the Air System as this remains the Responsibility of the civil Air System Air Operator Certificate ²⁰ holder (or equivalent) or AP within the Foreign Air System operating authority.				
	16. This RA should be read in conjunction with RA 1029 ¹² .				
Guidance	Ship Air-Release				
Material 1395(2)	17. Annex A, Figure 1 illustrates the SA-Release process and the relationship between the organizations responsible for producing the outputs which enable the production and Approval of a SA-Release. Fundamental to this is that the RtL for aviation operations with HM / MOD Ships remains clearly defined between the Ship DH / AP and ADH / AM(MF). The ADH / AM(MF) remains accountable for the inherent RtL to all parties associated with their Air System, noting that the Ship DH / AP is accountable for the RtL that the Ship poses to the Air System and that the Air System poses to the Ship's Company specifically. DH-Facing Organizations will support the ADH / AM(MF) with delegations defined as appropriate for delivery of safe equipment. The development and Approval of the SA-Release is therefore a crucial element in managing the interface between these DHs.				
	18. The SA-Release is complementary to the existing Authorization processes for Ships (DSA02-DMR) and Air Systems (eg RA 1300 Series → or appropriate MPTF) and will not countermand the limitations or requirements of these processes (ie if any doubt exists, then the most restrictive limitation will be applied).				
	19. The SA-Release will take account of design differences of individual Ships within a Ship Class that impact aviation. Ships within the subject Ship Class, iaw the				
¹⁹ Refer to BRd 766 –	► Embarked Aviation Orders 1029 Annex 1029(5)C. ◄				

 ²⁰ Refer to BRd 766 – Embarked Aviation Orders 1029 Allitex 1029(5)C.
 ²⁰ Refer to BRd 766 – Embarked Aviation Orders 1029 - Roles and Responsibilities: Ship Air-Release – Stakeholder Roles Responsibilities and Deliverables.
 ²¹ As defined in European Union Aviation Safety Agency and UK Civil Aviation Authority Regulation.

requirements of DSA03-DMR²², must hold Naval Authority Certification²³ and

quantly hold a Shin Managament Cartificate

Material	subsequently hold a Ship Management Certificate.
1395(2)	20. The maturity of Non-Equipment DLoDs relevant to safe integration of the Ship and Air System will be assessed and demonstrated to the RN RTSA by the Ship DH / AP and ADH / AM(MF). The output of these assessments will be summarised in a ADH / AM(MF) SA-Release Safety Statement supported by a pan DLoD claim- argument-evidence assessment and Command Safety and Environmental Summary. The RN RTSA will issue the SA-Release once the Ship DH / AP and ADH / AM(MF) have finalised their respective Safety Statements.
	21. To facilitate operation of the Air System on the Ship it might be necessary to Authorize operation of certain aspects of the integrated Ship / Air System combination in advance of others (eg for the conduct of Ship-Air trial activity ²⁴). In such cases, the SA-Release process will proceed incrementally through the imposition of Ship-Air Special Releases iaw RA 1395(4).
	22. Generation of a SA-Release can be detailed and include representation from a large number of stakeholders. In order to manage this process further guidance is available in NCHQ Mid-Level Orders ²⁰ , stakeholders can follow these additional requirements, noting that on most occasions a SA-Release will involve a minimum of one NCHQ DH. When a new ship or Air System enters service, extensive planning will be required to conduct First of Class Flying Trials or First of Type Flying Trials respectively ²⁴ . The purpose of the Ship-Air Working Group (WG), however, is not a function of Project Management, but rather as the vehicle to achieving regulatory compliance.
Regulation	Ship Air-Release Recommendation
1395(3)	1395(3) The Ship PA and TAA shall jointly prepare the SA-Release Recommendation for each Ship / Air System combination to the satisfaction of the RN RTSA.
Acceptable	Ship Air-Release Recommendation
Means of	23. The SA-Release Recommendation is the evidenced equipment-based argument

The SA-Release Recommendation is the evidenced equipment-based argument 23. supporting the SA-Release; all operating requirements, limitations, warnings and cautions **should** be in a format consistent with the SA-Release structure or prepared to the satisfaction of the RN RTSA and the Ship-Air WG. Content is likely to vary dependent upon the type of clearance being required.

24. The Ship PA and TAA **should** certify that the SA-Release Recommendation:

a. Demonstrates that both the Ship and Air System equipment are acceptably safe to conduct embarked aviation.

Provides an acceptably safe Ship / Air System operating envelope for b. subsequent Approval and Authorization.

The Ship PA and TAA should submit the SA-Release Recommendation and 25. supporting evidence to the Ship-Air WG for consideration and copy to the Defence Safety Authority, for the Military Aviation Authority (MAA) Head of Regulation & Certification, Head of the DMR and the RN RTSA. This should include an updated draft of the relevant BRd 766 Chapters for the Air System and Ship / Air combination. The SA-Release Recommendation should include as key components the outcome of:

- The Military Air System Certification Process²⁵. a.
- The Certification process for aviation capable HM / MOD Ships²². h

C. Updated drafts of the relevant BRd 766 chapters for the Ship, Air System and Ship / Air combination.

Guidance

Compliance

1395(3)

²² Refer to DSA03-DMR – Naval Authority Rules for Certification of MOD Shipping.

²³ Including a valid Certificate of Safety (Áviation) > < , MOD Ship Safety Certificate, or MOD Boat Safety Certificate.

²⁴ As defined in Defence Standard 00-133 Part 4.

²⁵ Refer to RA 5810 – Military Type Certificate (MRP Part 21 Subpart B).

Acceptable Means of Compliance 1395(3)	 d. Equipment Hazards identified within Ship / Air System Safety Assessments which are mitigated by DLoDs for which the DHs / APs are responsible. e. The reviewed BRd 766 chapters that identifies any elements that cannot be substantiated by supporting evidence or are generated through DLoDs for which the DHs are responsible. 			
Guidance Material 1395(3)	 Ship Air-Release Recommendation 26. The Ship PA and TAA will prepare the SA-Release Recommendation, co- ordinating its development through Working Groups considering each Ship / Air System combination iaw the requirements of RA 1029(2)²⁶ and RA 1029(3)²⁷. 27. The SA-Release Recommendation will ▶include ◄ the content of the proposed SA-Release bar any amendments deemed necessary by the RN RTSA. It will articulate: a. The suitability of the Air System to operate with the Ship and its associated equipment safely in the maritime environment. This will be supporte by evidence from the Air System TASA and subordinate TASAs where appropriate. b. The suitability of the Ship to operate safely with the Air System and its associated equipment. This will be supported by evidence from the Ship Aviation Safety Report and from subordinate Safety Assessments where appropriate. c. That an acceptably safe Ship-Air System combination. Although derived from the Ship and Air System Safety Cases (ASSC), the development of the Ship-Air System operating envelope, including the imposition of limitations, will be supported by appropriate evidence, for example Instrumented Flying Trials and Independent Test and Evaluation evidence, or evidence derived from analysis of previously conducted trials. 28. The SA-Release Recommendation will include specific operating procedures but may also reference other related operating Procedures, etc) or other orders developed from the DLoD / Safety Assessments and trials evidence. 			
Regulation 1395(4)	 Ship-Air Special Releases 1395(4) When the SA-Release evidence requirements of RA 1395(2) cannot be fully met, a Ship-Air Special Release shall be raised by the Ship PA and TAA to permit Ship Classes and Air System Type / Marks to conduct embarked aviation. 			
Acceptable Means of Compliance 1395(4)	 Ship-Air Special Releases 29. A Ship-Air Release with Limited Evidence (SA-RLE)²⁸, as Authorized by the RN RTSA, should: a. Be identified when a fully substantiated Ship and / or ASSC is not available to support a full SA-Release, but on the balance of available evidence, clearance is judged safe and within the declared Safety Target. This can include Test and Evaluation activity. b. Be reviewed at a periodicity not exceeding 12 months. c. Have a maximum life of 5 years. 			

 ²⁶ Refer to RA 1029(2): Ship Platform Authority: Roles and Responsibilities.
 ²⁷ Refer to RA 1029(3): Air System Type Airworthiness: Roles and Responsibilities.
 ²⁸ Equivalent to a RTS Clearance with Limited Evidence.

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Acceptable Means of Compliance	30. A Ship-Air Operational Emergency Release (SA-OER) should be raised when the RtL is considered too high for normal day-to-day operations. A SA-OER, as Authorized by the RN RTSA, should :		
1395(4)	 Be identified when the embarked aviation activity associated with a specified Ship / Air System combination is deemed outside the declared Safety Target. A SA-OER is not applicable to Air Systems under the Responsibility of an AM(MF). 		
	b. Be jointly enabled at Ship ODH and ADH level for a defined activity or period.		
	c. Be reviewed at a periodicity not exceeding 12 months.		
Guidance Material	Ship-Air Special Releases General		
1395(4)	31. Where a Special Release is used to permit a Ship / Air System combination to conduct embarked aviation activity in lieu of a full SA-Release, a SA-OER and SA-RLE can only become a fully Authorized SA-Release with the provision of suitable additional evidence.		
	32. For trials activity this Regulation must be read in conjunction with RA 2370 ²⁹ .		
	33. Special Releases may also be used to introduce a new operating capability (eg Helicopter In-Flight Re-fuelling), changes in limitations (eg Ship Helicopter Operating Limits (SHOL)), or adding subordinate equipment (eg Air Launched Weapon), to an existing Release document. Where a Special Release is used in this manner, the Acceptable Means of Compliance and Guidance Material contained within paragraphs 29 to 32 above will remain applicable.		
	SA-OER		
	34. A SA-OER will only be used to permit aviation activities related to a specified Ship / Air System combination under the following circumstances:		
	a. In conditions of actual or potential hostile enemy action.		
	b. In the evaluation of options needed for contingency planning.		
	c. In other conditions of operational imperative, to include training for actual, or planned, operations, when enabled by the Ship ODH and ADH. The RN RTSA will be informed of all such activity, and the Aviation ODH will consider seeking Air System RTSA advice prior to use of the SA-OER.		
Regulation	Ship Air-Release – Remotely Piloted Air Systems		
1395(5)	1395(5) Embarked operation of RPAS in HM / MOD Ships ³⁰ shall be Authorized.		
Acceptable	Ship Air-Release – Remotely Piloted Air Systems		
Means of	35. Where the requirement for an RPAS ³¹ to be operated from a HM / MOD Ship		
Compliance 1395(5)	exists, the combination should be Authorized through an appropriate SA-Release process (with the exception of RPAS categorized in the A1 Open sub-category). The level of Authorization required is dependent on the Risk ► associated with the following categories and sub-categories:		
	a. RPAS categorized in the Open A2, Open A3, Specific S1 sub- categories, and S2 sub-category with a Maximum Take-Off Weight (MTOW) below 25 kg (despite operating Beyond Visual Line of Sight). The Ship DH / AP and RPAS Responsible Officer (RO) / RPAS Accountable Manager (AM) / ADH / AM(MF) should complete a pan DLoD assessment of individual Ship / Class and Air System Risks to ensure procedural Safety mitigations can be		

²⁹ Refer to RA 2370 – Test and Evaluation.
 ³⁰ Due to the flexibility offered by RPAS, this Regulation applies to all HM / MOD ships including those not considered aviation capable, boats and submarines.
 ³¹ Refer to RA 1600 series – Remotely Piloted Air Systems.

Acceptable Means of Compliance 1395(5)	 implemented as required for any given operational requirement³². This assessment should be conducted in consultation with the Ship PA and TAA³³, prior to discussion with the RN Delegated RTSA (DRTSA), who decide if the tailored route illustrated at Annex A Figure 3 is applicable. b. RPAS categorized in the ► < Specific ► S2 sub-category with a MTOW of 25 kg or above. The Ship DH / AP and RPAS RO / RPAS AM / ADH / AM(MF) should complete a preliminary assessment of Risk³². ► This assessment should be conducted in consultation with the Ship PA and TAA³³, prior to discussion with the RN DRTSA, who ► decide on the extent of SA-Release required and whether the accelerated route illustrated at Annex A Figure ►4/5 			
	c. RPAS categorized in the Certified Category. The Ship DH / AP and ADH / AM(MF) should conduct a full SA-Release iaw RA 1395(2).			
	 ADH / AM(MF) should conduct a full SA-Release law RA 1395(2). 36. Prior to being operated, all RPAS should have received a Letter of Endorsed Categorization from the MAA iaw RA 1600. Where RA 1600 does not apply³⁴, such as Civilian Operated RPAS operating iaw the Air Navigation Order, the organizations operating RPAS should demonstrate equivalence with respect to the RA 1600 Categorization requirements by complying with paragraph 35. 			
	37. Unless conducting Crossdeck Operations or operating under a Trial Instruction all Air Systems should be within the Scope of the ship's certificate ^{22, 35} , this applies to all HM / MOD ships including those not previously considered aviation capable, boats and submarines.			
	38. When carrying out the ► tailored route illustrated at Annex A Figure 3 or accelerated route illustrated at Annex A Figure ►4 / 5 AP and RPAS RO / RPAS AM / ADH / AM(MF) should consider the following in the Risk Assessment:			
	a. RPAS / Vessel Electromagnetic ► Frequency (EMF) ◄ ³⁶ .			
	b. Take-off and landing location and method.			
	c. ► Scatter data ³⁷ . ◄			
	d. Battery charging and stowage.			
	e. Fuel storage and transportation.			
	f. Inter-Communications as applicable between the Remote Pilot and:			
	(1) Flight Deck Officer.			
	(2) Command.			
	(3) Air Systems Controller.			
	(4) Principle Warfare Officer.			
	(5) Deck Crew.			
	g. Firefighting.			
	h. Radiation Hazards.			
	i. Ship Motion ► ◀.			
	j. ► Ship / Helicopter Operating Limits. ◄			
	k. Air Flow effect on RPAS.			
	I. Remote Pilot Station (RPS) Location.			

³² Refer to JSP 892: Risk Management.

³³ Open Category and Specific S1 sub-category RPAS do not require a TAA, whereas Specific S2 sub-category and Certified Category RPAS require a TAA. Refer to the RA 1600 Series. ³⁴ Refer to RA 1600 – Remotely Piloted Air Systems. ³⁵ Refer to RA 1920 – Aviation Arrangements in His Majesty's / MOD Ships – Equipment Standards. ³⁶ Note, if no **EMF** assessment has been carried out consideration **should** be given to mitigating actions (ie sector blanking of the

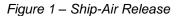
ships radar etc). Refer to BRd 2924 – EMF Hazards in the Royal Navy. ³⁷ ▶ Def Stan 00-133 – Aviation Arrangement in Surface Ships Part 3. ◄

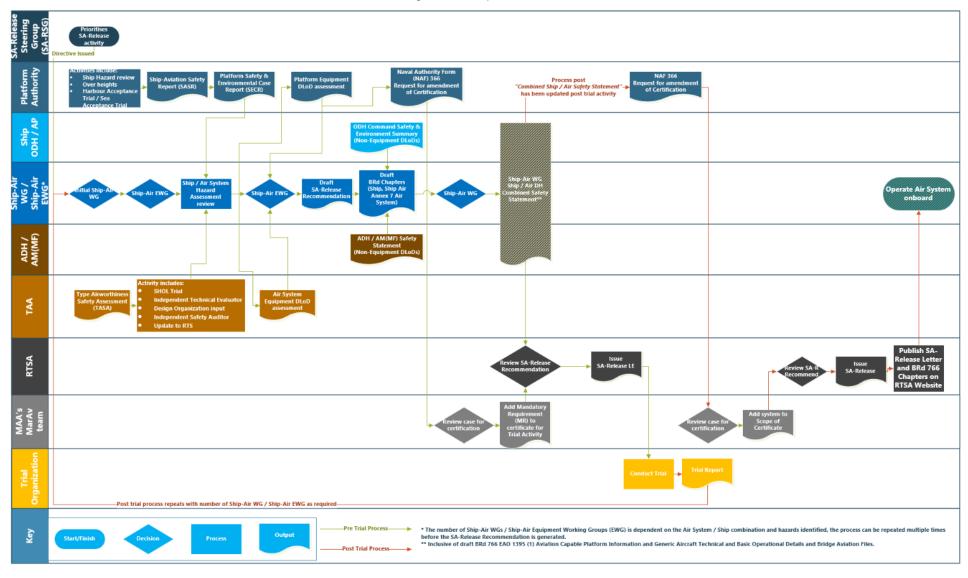
Acceptable Means of Compliance 1395(5)		Securing and movement / handling of RPAS. Concurrent operations. Impact of RPS equipment on other RPAS and crewed operations ³⁸ . Maintenance / Equipment stowage and activity areas. Ship DH / AP and RPAS RO / RPAS AM / ADH / AM(MF) should generate Ps to operate the Air System and Ship combination for this SA-Release.
Guidance Material 1395(5)	 a set of SOPs to operate the Air System and Ship combination for this SA-Release. Ship Air-Release – Remotely Piloted Air Systems 40. The extent of SA-Release Assurance required may range from a simple documented agreement between DHs to completion of the full SA-Release process, depending on the Risk encountered during the embarked take-off and landing cycle (including movements, securing, start up, shut down, etc). The aggravating and mitigating factors in RA 1600 for RPAS categorization may not be the primary indicators of Risk in this phase of operation. 41. ► To aid in SA-Release Assurance, an RPAS to Platform Guidance Tool is available on the MAA DefNet Maritime Aviation Website (internal to MOD only)³⁹. 	

 ³⁸ Refer to ► 2024DIN04-284 < - Guidance on Conducting Surface Fleet Development Trials.
 ³⁹ ► In DefNet search using "MAA Maritime Aviation Certification".

Annex A

Ship / Air System Combinations – Authorization Process





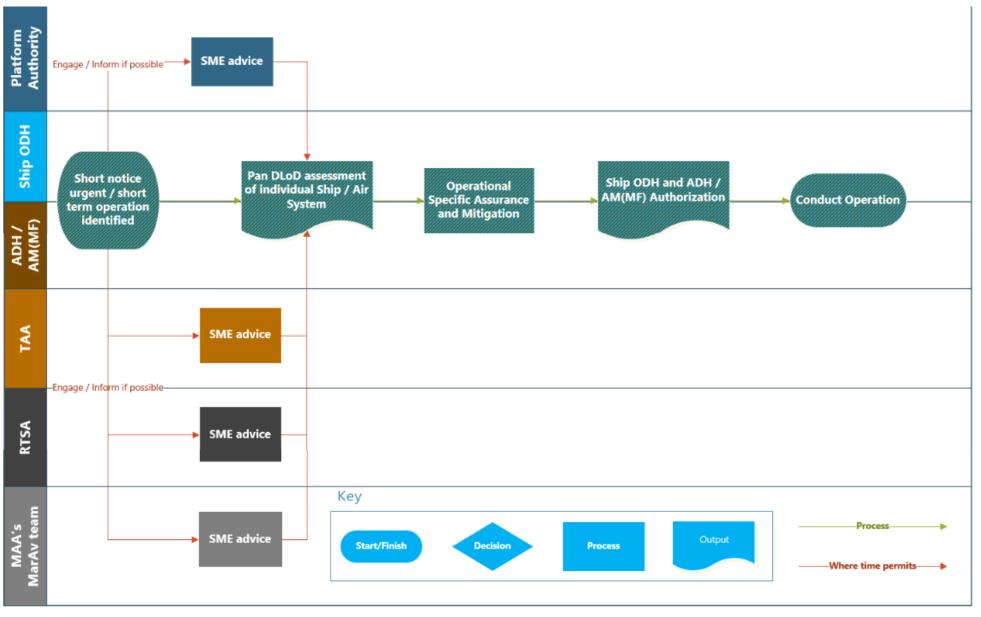
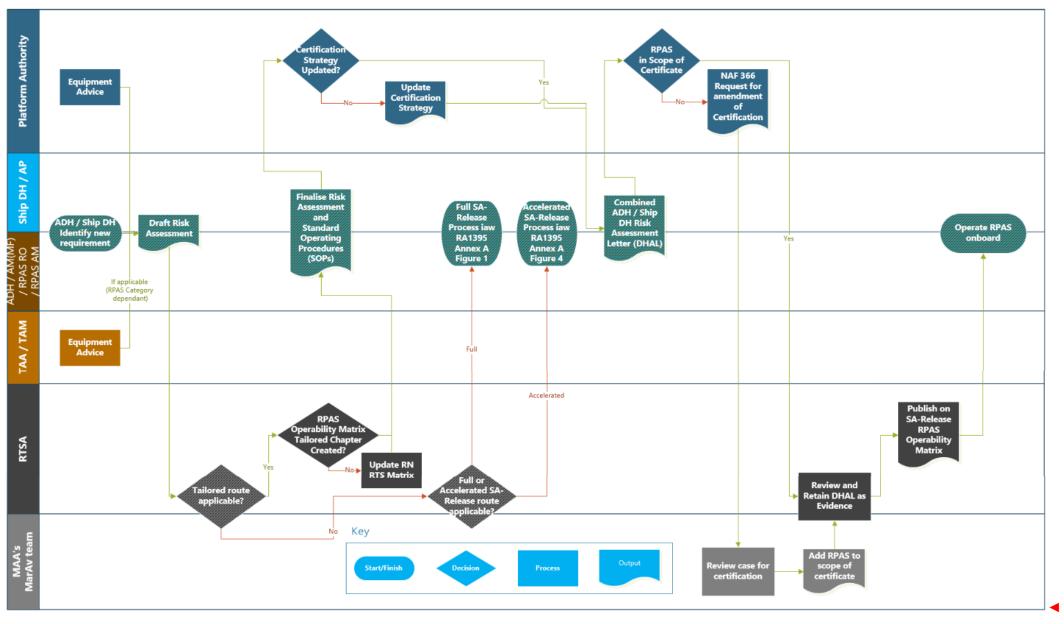


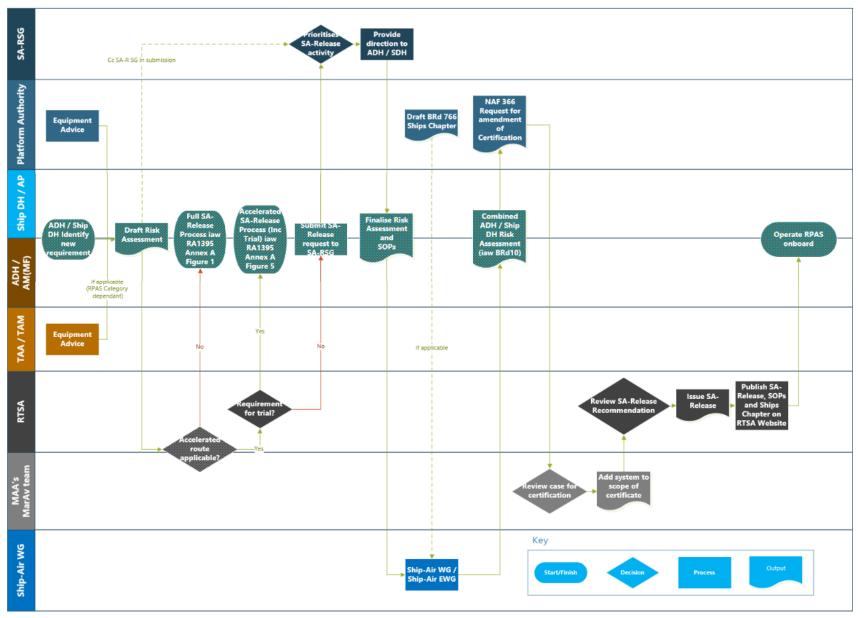
Figure 2 – Non-Routine Force Generation directed Authorization of Ship and Air System Combinations

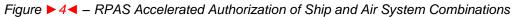
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► Figure 3 – RPAS Tailored Authorization of Ship and Air System Combinations



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SA-RSG

Platform Authority

Ship DH / AP

ADH / AM(MF)

TAA / TAM

RTSA

MAA's

ship-Air WG

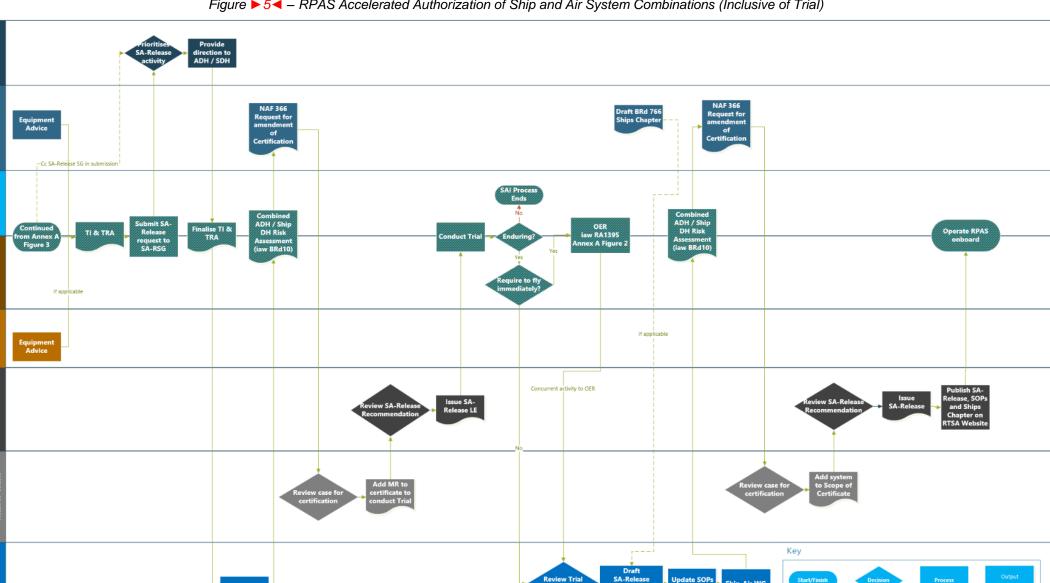


Figure > 54 – RPAS Accelerated Authorization of Ship and Air System Combinations (Inclusive of Trial)

Ship-Air WG

Review Tria

Report

Update SOPs

Ship-Air Wo