











Defence Equipment & Support Maple 0A, #2043 MOD Abbey Wood Bristol BS34 8JH



29 April 2019

Our Reference: FOI2019/02887



Thank you for your letter of 27 February 2019 regarding asbestos within Sea King helicopters. Some of your questions ask for recorded information which falls within scope of the Freedom of Information (FOI) Act 2000, and I am therefore treating the following in line with the requirements of the FOI Act.

- A full hard copy of the MOD investigation you reference in correspondence dated 5th December 2018 'The MOD investigation, through Leonardo Helicopters (the Air System Coordinating Design Organisation)'.
- All copies of risk assessments specifically undertaken around potential exposure to ACM's in relation to the Sea King Helicopter.
- All records of any asbestos awareness training given to defence personnel, contractors and visitors working on the Sea King Helicopter.
- A record of asbestos awareness training given to defence personnel, contractors and visitors, along with any schedule of delivery and numbers that have undertaken the afore mentioned training across the MOD estate.

A search has now been completed within the Ministry of Defence (MOD) and I can confirm that some information in scope of your request is held. In my letter of 28 March 2019, I advised that some of the information you requested fell within scope of Section 43 of the FOI Act (Commercial Interests). This was specifically in relation to the MOD/Leonardo investigation data. However, on further review and following discussion with Leonardo, it was concluded that this exemption did not apply. Answers to each of your questions are below.

# MOD / Leonardo investigation

Under Section 16 of the FOI Act (advice and assistance), I can advise you that this investigation was a collaborative effort between the MOD and Leonardo and involved the systematic review of all components that potentially included Asbestos Containing Materials (ACMs). While no formal report was commissioned, a working spreadsheet to record the investigation of components was produced by the MOD and Leonardo. The latest iteration of this is enclosed at **Annex A.** You should note that the MOD and Leonardo are still working on this issue and earlier versions of this spreadsheet were produced which included data unrelated to the MOD. The enclosure I have

provided here represents the latest position regarding ACM components applicable to the MOD Sea King helicopter.

The MOD/Leonardo review also resulted in a policy document – Maintenance Policy 115 Asbestos Elimination – which provides details of all components affected. As the output of the investigation, this document is enclosed at **Annex B.** Under Section 16 of the FOI Act, you should note that Maintenance Policy 115 was originally published in November 2018 and, as Leonardo/MOD work has progressed on this issue, it is currently being updated to reflect three additional affected components.

# Copies of risk assessments relating to exposure to ACMs on Sea King

The MOD holds an overarching risk analysis due to the presence of ACMs within the Sea King design. This was first compiled in 2004 and maintained until the Sea King out of service date. It takes the form of an eCassandra report which is attached at **Annex C**. The Excel extract at **Annex D** should be viewed as an appendix to this report; it provides more detail on the linked hazard data regarding the exposure of aircrew and/or maintenance personnel to asbestos on Sea King. Under Section 16 of the FOI Act (advice and assistance), it may be helpful if I attach some explanatory material about the fields contained within the eCassandra report and the linked hazard data; this is attached at **Annexes E** and **F**.

Within the MOD, individual risk assessments are also used to manage the risks of specific activities or maintenance. Documentation is required to be held for three years. Prior to the MOD investigation into the use of ACMs on Sea King in July 2018, the risk of exposure to ACMs was not considered sufficiently high to warrant risk assessments for activities on Sea King. Since the potential asbestos hazard was raised, however, two maintenance activities were undertaken which carried the risk of maintainers being exposed to ACMs. Risk assessments were therefore conducted to outline the statutory measures to be taken during exposure and handling of the ACM items during these activities. All personnel associated with Sea King maintenance activities were notified and provided with a copy of the MOD Form 960 (asbestos personal record annotation) for completion. The two relevant risk assessment forms are attached at **Annexes G** and **H**.

For all risk assessment documents, you should note that names of individuals have been removed in accordance with Section 40 of the FOI Act (Personal Information).

<u>Asbestos awareness training</u>: The MOD holds some information regarding asbestos awareness training, however definitively identifying and extracting asbestos training records that specifically relate to Sea King would require a search of all relevant MOD personnel and maintenance records for the length of time that the platform was in service. We would also need to conduct much wider searches for contractors and visitors, for which information is unlikely to be held.

You also ask for records of <u>general</u> asbestos training given to all defence personnel, contractors and visitors. Again, to answer this, we would need to consult all MOD branches and a wide range of historical records in order to extract information in scope of your request.

Section 12 of the Act makes provision for public authorities to refuse requests for information where the cost of dealing with them would exceed the appropriate limit, which for central government is set at £600. This represents the estimated cost of one person spending 3.5 working days in determining whether the department holds the information, locating, retrieving and extracting the information. We estimate that around 1,000 people worked on Sea King at any one time, which means that, overall, since 1969, many thousands of individuals worked on the platform and would have undertaken related training. Even if we were to restrict a review of Sea King-related training records to a snapshot of 1,000 people working on Sea King at a specific recent time, we estimate that identifying, retrieving and extracting information about training records would take at least 126 hours at a cost of more than £3,000 and this would be likely to be incomplete. Naturally, such an exercise would be increasingly difficult for earlier years.

Under Section 16 of the FOI Act, it may help, however, if I provide you with the number of MOD personnel who have completed general asbestos online training over the last four years. As at 20 March 2019, 8,354 people had registered to complete the online general awareness course for people working in an environment that is known or suspected to contain asbestos materials. In addition, the DE&S Quality, Safety and Environmental Protection (QSEP) team has recently reinvigorated its training on hazardous materials and restricted substances, which is available as classroom training and online. Over the last 18 months, 385 individuals have completed classroom training and more than 500 have completed online training. DE&S QSEP has also hosted a number of masterclasses on the subject to raise awareness across the organisation, with the next one scheduled for May 2019.

If you are not satisfied with the response to these FOI questions or you wish to complain about any aspect of the handling of your request, then you should contact me in the first instance. If informal resolution is not possible and you are still dissatisfied then you may apply for an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail <a href="CIO-FOI-IR@mod.gov.uk">CIO-FOI-IR@mod.gov.uk</a>). Please note that any request for an internal review must be made within 40 working days of the date on which the attempt to reach informal resolution has come to an end.

If you remain dissatisfied following an internal review, you may take your complaint to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not investigate your case until the MOD internal review process has been completed. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website, <a href="http://www.ico.org.uk">http://www.ico.org.uk</a>.

While your other points do not fall within scope of the FOI Act, I would like to address them in this letter. You may wish to note that, where not specifically related to Sea King, I have taken your questions to relate to equipment-related asbestos issues.

Firstly, I can assure you that the health and safety of our Armed Forces and employees is of utmost importance, and the MOD is acutely aware of its responsibilities regarding ACMs. With regard to Sea King, we took immediate steps to notify existing service and civilian employees of possible exposure to asbestos and outlined the reporting procedure to be used if people thought they had been exposed. We also issued technical advice detailing the action to be taken to contain the risk when undertaking maintenance and wrote to organisations to whom we had gifted or sold Sea King helicopters. As I am sure you will appreciate, however, identifying and contacting every one of the many thousands of individuals who have worked on the helicopters since their introduction into service in 1969 is not possible. Nonetheless, recognising the concerns that people have regarding this issue, we have instead published guidance for individuals potentially affected on gov.uk at the following link: <a href="https://www.gov.uk/government/news/sea-king-helicopters-asbestos--2">https://www.gov.uk/government/news/sea-king-helicopters-asbestos--2</a>

This guidance explains the steps that individuals should take if they are worried about having been exposed and offers advice on compensation schemes. In relation to medical checks, any individuals who are concerned about potential exposure should seek advice from their GP in the first instance and then follow the reporting guidance outlined on gov.uk as appropriate.

You also asked which exemptions are currently in place that allow ACMs to be fitted to aircraft in service. I can advise that all exemptions of this nature fall under the European Union REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) regulations. It is worth noting that a REACH exemption is only required if ACMs are imported after 2005, or if new ACMs are fitted to equipment during maintenance activities. The majority of existing defence exemptions have expired over time as the ACM has been eliminated in the supply chain or the equipment has gone out of service and therefore no longer requires a REACH defence exemption. As such, there is currently only one extant asbestos-related defence exemption under REACH.

Finally, you asked what checks are now in place to ensure the supply chain is purged of asbestos components. A significant programme of work is underway to review ACMs in defence equipment,

and to ensure that the risks are analysed and appropriate guidance and policy documents are in place. Where required, we are also reviewing the REACH exemptions with a view to taking action and raising new exemptions where required. Overall, I can assure you that the MOD remains committed to removing ACMs from all defence material over time.

I hope this is helpful.

Yours sincerely,

**DE&S Secretariat** 

MOD Risk Assessment Form					
Establish RNAS Cu	ment /Unit/Ship: Idrose	Assessment Ref: 849\03\18	Date: 11 Jul 18		
Section/E 849 NAS	Department:		Assessm (Note 1) tick a		
			Specific 🛚	Generic	
Activity/F			Who is at	risk:	
following	on to ascertain part numbers of Sea King ASaC Mk7 Bowdent discovery that cable assemblies part number WD01-47-9007	'9 contain asbestos,		All staff:	
along wit	h accessing port and starboard ECU bay to inspect rear ECU	J bay seals.	Operators and/or ma		
			Visitors, vulnerable grou	os, public, etc. :	
Ref	Hazard	Existing Co (N	Significant Residual Risk. Assessment Reqd		
1	Exposure to asbestos fibres.	Nil. Access to aircraft pro of bowdenflex cables are required.	Yes		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					

12			
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Likelihood				Risk Matrix MOD Form 501 (V1.3 Mar 16				
Common,	regular or frequent occurrence. 3	3 Med		6 High	9 High			
Occasiona	al occurrence. 2	2 Low		4 Med	6 High			
Rare or im	nprobable occurrence. 1	1 Low		2 Low	3 Med			
	Severity	1 Minor injury or il	llness.	2 Serious injury or illness.	3 Fatalities, major injury or illness.			
Hazard Ref	RISK Associated with Ha ( type of incident, injury or ill		Risk Rating	Additional Controls Required (Note 3)				
1	Ill health caused by exposure to asbestos numbers of Bowdenflex cable assemblies are manufactured using asbestos.		1x3 Mediu	and decontamination of the are notifiable and Non-licensed wor She  Compliance with the  HSE Asbestos Essentials EM Equipment (PPE) requirement, w Stock Numbers (NSN HSE Asbestos Essentials EM7 statement for using damp rags to contamination. In the event that the positively identified this will be the vicinity of the port and starbolequip.  HSE Asbestos Essentials EM8	arboard engine bays to inspect for a required. If part number WD01-to number is visible, a separate RA the Bowdenflex cable assemblies as. This task is defined as Non-rick under Asbestos Essential A0 eet.  following is required:  following is required:  following is required:  following is required:  defines Personal Protective with SHE Office confirming NATO as) for items required.  defines equipment and method clean surfaces of minor asbestos the post-Mod part number cannot applicable to aircraft surfaces in ard engine bays and to tools and ment.  details equipment and method mination when inspection task is olete.  efines equipment and method for twaste bags to be issued by SHE			

			accordance with EM9 and returned to the SHE Dept. (RNAS Culdrose) for disposal.  To meet the above, personnel detailed with inspection and removal
			tasks are to:
			Undertake mandatory asbestos awareness training - this can be achieved by completing DLE module V398N Asbestos Awareness.
			Be clean-shaven and Fit Tested (Qualitative) on Respiratory     Protective Equipment (RPE) by SHE Office.
			Other control measures:
			Senior Rate to be appointed I/C inspection task and responsible for supervision and compliance with control measures.
			2. No more and no fewer than two (2) personnel to be employed on task.
			3. Area to be defined and marked out for decontamination/removal and sealing of used PPE & RPE.
			4. Bowdenflex cable assemblies part number WD01-47-90079 and assemblies without an identifiable part number are to be replaced with non-asbestos item part number WD01-47-90079-043 under a separate RA.
2	Slips, trips or falls caused by working on aircraft in Personal Protective Equipment.	2x2 Mediu	PPE boots are not suitable for working at height on aircraft.  Standard DMS boots approved for aircraft maintenance are to be worn instead and are to be thoroughly decontaminated in accordance with HSE Asbestos Essentials EM8. Boot laces may trap asbestos fibres so are to be discarded as hazardous waste along with other single-use PPE & RPE.
			One hundred percent (100%) supervision to be applied to inspection and removal tasks, over and above generic procedures and Risk Assessments in place.

	Assessor (Note 4)				Man	nager (Note 4)	Overall Risk Rating
Name/Signature:			Name/Signature:			(highest risk)	
Rank/Grade:			Rank/Grade:		Medium		
Post/Role:			Post/Ro	le:			Medium
Manager Assessment Review (Note 4 and 5)							
Date:							Review frequency
Name/Signature:			·				3 months

## Notes:

- If using a 'Generic' risk assessment, Assessors and Managers are to satisfy themselves that the assessment is valid for the task and that all significant hazards have been identified and assessed. If additional hazards are latterly identified they are to be recorded and the Generic assessment updated.
- 2 Only a reference to the safe system of work or simple description of the control measures is required. If the existing control measures reduce the risk to ALARP and the residual risk is considered not to be significant then no further assessment should be needed for the risk relating to that hazard.
- 3 If the risk assessment identifies the need for additional control measures, the risk relating to that hazard and any other hazard's affected by the change will need to be reassessed once the additional controls have been implemented.
- 4 Managers are to note that they are responsible for production of the risk assessment and that by completing this section they acknowledge ownership of the risk and that the risk assessment is suitable and sufficient. Signatures may be required by local procedures where hard copy risk assessments are used but are not necessary for soft copies as electronic signatures provide an audit trail.
- 5 Risk Assessments are to be reviewed:
  - at a frequency proportional to the risk (e.g. high risk 6 monthly; medium risk annually; low risk every 2 years)
  - where required by local instructions/procedures;
  - prior to use if the safe execution of the activity relies on:
    - o a permit to work; or
    - o stringent adherence to a safe system of work and/or supervision.
  - if there is reason to doubt the effectiveness of the assessment.

- following an accident or near miss.
- following significant changes to the task, process, procedure, personnel or line management.
  following the introduction of more vulnerable personnel.

High	Common, regular or frequent occurrence.	3	3 Med	6 High	9 High
Medium	Occasional occurrence.	2	2 Low	4 Med	6 High
Low	Rare or improbable occurrence.	1	1 Low	2 Low	3 Med
				2	3
Risk Matrix Likelihood X Severity		Minor injury or	Serious injury	Fatalities, major	
		illness.	or illness.	injury or illness.	
			Low	Medium	High

High	Rigorous scrutiny of control measures required to ensure ALARP, Improve control measures where possible; consider stopping work.  Conducting activities at this level of risk may require formal approval from the appropriate Duty Holder.
Medium	Review control measures and improve if reasonably practicable to do so, consider alternative ways of working.
Low	Maintain control measures and review regularly or if there are any changes.

MOD Risk Assessment Form				
Establishment /Unit/Ship: RNAS Culdrose			Assessment Ref: CU/SHE/849NAS/01?	Date: 6 Jul 18
Section/E 849 NAS	Department:		Assessm (Note 1) tick a	
			Specific 🖂	Generic
Activity/F			Who is at	risk:
	of Sea King ASaC Mk7 Exhaust Panel Seals following discov WD0110-92800 and WD0110-92800N contain asbestos.	ery that seal part		All staff:
			Operators and/or ma	
			Visitors, vulnerable grou	ps, public, etc. :
Ref	Hazard	Existing Co (N	Significant Residual Risk. Assessment Reqd	
1	Exposure to asbestos fibres.	Nil. Access to aircraft propart numbers WD0110-9 is confirmed.		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

12			
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Likelihood				Risk Matrix MOD Form 50 (V1.3 Mar			
Common,	regular or frequent occurrence. 3	3 Med		6 High	9	High	
Occasiona	al occurrence. 2	2 Low		4 Med	6	6 High	
Rare or im	probable occurrence. 1	1 Low		2 Low	3	3 Med	
	Severity	1 Minor injury or il	llness.	2 Serious injury or illness.	Fatalities, maj	3 or injury or illness.	
Hazard Ref	RISK Associated with Ha ( type of incident, injury or ill		Risk Rating	Additional Controls Required (Note 3)			
1	III health caused by exposure to asbestos part numbers WD0110-92800, WD0110-9 manufactured using asbestos.		1x3 Mediu	Safe system of work to be develop Sea King ASaC Mk7 Exhaust numbers and, if either one of the no part number is visible, to removarea. This task is defined as Non under Asbestos Es  Compliance with the  HSE Asbestos Essentials EM Equipment (PPE) requirement, w Stock Numbers (NSN  HSE Asbestos Essentials EM7 statement for using damp rags to contamination. This will be app vicinity of the Engine Exhaust Wra equip  HSE Asbestos Essentials EM8 statement for personal decontar removal task  HSE Asbestos Essentials EM9 decompliant waste bags to be arising is to be double-bagged and and returned to the SHE Dept.	Panel Seals to i se part numbers ye the seal and on the seal and of the seal a	inspect for part is is identified or if decontaminate the Non-licensed work et.  uired:  uired:  unal Protective confirming NATO juired.  ent and method of minor asbestos if surfaces in the is and to tools and ent and method inspection and inspection and untand method for the recovery task.  Office. All waste cordance with EM9	

			To meet the above, personnel detailed with inspection and removal task are to:  1. Undertake mandatory asbestos awareness training - this can be achieved by completing DLE module V398N Asbestos Awareness.  2. Be clean-shaven and Fit Tested (Qualitative) on Respiratory Protective Equipment (RPE) by SHE Office.  Other control measures:  1. Senior Rate to be appointed I/C inspection/removal task and responsible for supervision and compliance with control measures.  2. No more and no fewer than two (2) personnel to be employed on task.  3. Area to be defined and marked out for removal of seals from Exhaust Wraparound Panels. This area to be thoroughly decontaminated on completion of task.  4. Area to be defined and marked out for sealing of potentially-contaminated seals and rags and for decontamination/removal and sealing of used PPE & RPE.  4. Seal part numbers WD0110-92800 and WD0110-92800N and seals without an identifiable part number are to be replaced with non-asbestos seal part number WD0110-92800-101.
2	Slips, trips or falls caused by working on aircraft in Personal Protective Equipment.	2x2 Mediu	1. PPE boots are not suitable for working at height on aircraft. Standard DMS boots approved for aircraft maintenance are to be worn instead and are to be thoroughly decontaminated in accordance with HSE Asbestos Essentials EM8. Boot laces may trap asbestos fibres so are to be discarded as hazardous waste along with other single-use PPE & RPE.  2. One hundred percent (100%) supervision to be applied to inspection and removal tasks, over and above generic procedures and Risk Assessments in place.

	Assessor (Note 4)				Man	nager (Note 4)	Overall Risk Rating
Name/Signature:			Name/Signature:			(highest risk)	
Rank/Grade:			Rank/Grade:		Medium		
Post/Role:			Post/Ro	le:			Medium
Manager Assessment Review (Note 4 and 5)							
Date:							Review frequency
Name/Signature:			·				3 months

## Notes:

- If using a 'Generic' risk assessment, Assessors and Managers are to satisfy themselves that the assessment is valid for the task and that all significant hazards have been identified and assessed. If additional hazards are latterly identified they are to be recorded and the Generic assessment updated.
- 2 Only a reference to the safe system of work or simple description of the control measures is required. If the existing control measures reduce the risk to ALARP and the residual risk is considered not to be significant then no further assessment should be needed for the risk relating to that hazard.
- 3 If the risk assessment identifies the need for additional control measures, the risk relating to that hazard and any other hazard's affected by the change will need to be reassessed once the additional controls have been implemented.
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  - where required by local instructions/procedures;
  - prior to use if the safe execution of the activity relies on:
    - o a permit to work; or
    - o stringent adherence to a safe system of work and/or supervision.
  - if there is reason to doubt the effectiveness of the assessment.

- following an accident or near miss.
- following significant changes to the task, process, procedure, personnel or line management.
  following the introduction of more vulnerable personnel.

High	Common, regular or frequent occurrence.	3	3 Med	6 High	9 High
Medium	Occasional occurrence.	2	2 Low	4 Med	6 High
Low	Rare or improbable occurrence.	1	1 Low	2 Low	3 Med
			1	2	3
Risk Matrix Likelihood X Severity			Minor injury or	Serious injury	Fatalities, major
			illness.	or illness.	injury or illness.
			Low	Medium	High

High	Rigorous scrutiny of control measures required to ensure ALARP, Improve control measures where possible; consider stopping work.  Conducting activities at this level of risk may require formal approval from the appropriate Duty Holder.
Medium	Review control measures and improve if reasonably practicable to do so, consider alternative ways of working.
Low	Maintain control measures and review regularly or if there are any changes.

# **GUIDANCE FOR ANNEX D (DELIVERY TEAM HAZARD/ACCIDENT ANALYSIS)**

1. Under Section 16 of the FOI Act, I should like to provide you with some explanatory material for Annex D. The spreadsheet presents qualitative Hazard/Accident analysis completed prior to 2011, and the subsequent enhancement post 2011 as the Delivery Team (DT) transitioned to quantitative analysis. The last review was completed in February 2018. This analysis supported the recorded risk assessments in the eCassandra reports at Annex C.

# **Qualitative Baseline (pre-2011)**

- 2. The assessment for the probability of Hazard (H) 102 presented in Annex C is also recorded in cell E41 Annex D. The probability was initially assessed as 'occasional'. In accordance with the Safety Management System this translated to a worse case probability of 1.00E<sup>-04</sup> per flying hour (cell E42).
- 3. The potential accident severity for Accident (A) 103, which could be caused by an occurrence of H102 was qualitatively assessed as 'critical': A single 1<sup>st</sup> or 2<sup>nd</sup> party fatality. Cells M41 to M44 record the credible worst-case outcome of A103.
- 4. The accident probability was assessed qualitatively as 'improbable' (cell J41).

# **Quantitative Validation (post-2011)**

- 5. Post 2011 the probability assessment for hazards was validated through review of reported in-service incidents and aircraft usage rates. Cell E44 records that the exposure rate to any hazardous material was determined to be 1.50E<sup>-04</sup>. There were no recorded inservice events of asbestos exposure or events that were assessed having a common cause to a possible exposure; therefore, the assessment concluded a probability of 1.00E<sup>-04</sup> should be used. (Reflected in cell E46). In addition, it was assessed that there was a high confidence in the reporting of events and therefore sensitivity analysis was not applied (reflected in cell E48).
- 6. Post 2011, the DT prepared and maintained quantified accident sequence analysis (F41-F44 and G41-G44). The accident sequence was derived using Suitably Qualified and Experienced Personnel (SQEP) judgement and validated through consideration of the number of related incidents. This initial assessment concluded the probability of A103 was 1.00E<sup>-09</sup>. This is recorded in cell K42. The accident analysis is then revised to account for the hazard analysis for common causes (E46) at K48 and application of sensitivity analysis (E48) at K51<sup>[1]</sup>. Cell K48 records the accident probability adjusted to reflect in service experience as 1.00E<sup>-09</sup>. This final assessment of probability supports the eCassandra record for A103.
- 7. For all accidents assessed as 'critical' the Sea King Safety Management System sentenced the risks as 'as low as reasonably practicable' where the accident probability was less than 1.00E<sup>-07</sup>. This conclusion is recorded in the spreadsheet at K41, K44, K47 and K50 for each accident risk assessment.

<sup>&</sup>lt;sup>[1]</sup> Annex D, cell K51 was updated 15 Apr 19 as part of preparation of this Guidance note. K51 previously recorded a post sensitivity analysis assessment of 9.72E<sup>-09</sup> due to an error in the spreadsheet. This was a pessimistic error and did not affect the accident classification recorded in Annex C.

# **Other Notes**

- 8. Column C was not used for the analysis of H102 and no notes are recorded for the analysis (column L).
- 9. Cell K45 records the accident probability if the probability of the hazard had been adjusted to reflect the rate of events that could have resulted in exposure to any hazardous material (recorded in E44).
- 10. Cell K51<sup>[1]</sup> records the accident probability if the probability of the hazard had been adjusted to reflect any sensitivity analysis (recorded in E48).

# Extracts from eCassandra 'Help' as of 26 Mar 19:

Note: Not all fields are mandatory, only those with an asterisk (\*).

# **Accident Data Fields:**

This is a unique number identifying the Accident. It is generated automatically within the database when Accident progresses beyond "Draft" using the prefix entered in the Project Initiation screen when the project is created and selecting the next available Accident Number.

A short summary or title for the Accident. Limited to 75 characters.

Note: The Accident Title should be unique as far as is possible to assist subsequent interpretation.

### Accident Description\*

A detailed description of the potential Accident covering what the Accident is, whom it effects, what the effect is likely to be, etc. and includes physical properties (e.g. mass, energy level etc).

Extra details, such as the date the Accident was first identified, can be recorded in this field.

### Project Phase

The stage of the project in which the Accident has been identified.

Use the pull-down list to choose the relevant Project Life-Cycle Phase. The default list contains the Smart Procurement Life-Cycle Phases

Identifies the user who reported the initial Accident Data.

Use the pull-down menu to select the appropriate originator for the Accident. This list contains all the project users, but a new originator may be entered in the box below if they are not a member of the project team.

The authority that has responsibility for the control of the Accident. Use the pull-down list to choose the relevant owner.

The area that is at risk from the Accident. Use the pull-down list to choose the relevant area.

### **Review Date**

Where an Accident's Status is 'ALARP' and Controls with Status of 'Active' are associated with this Accident, the system will display the earliest Control End Date as the Accident Review Date. In this case the Review Date will be Read-Only.

In any other case the Accident Review Date will not be automatically calculated and the a future end date can be entered into the field.

Note: If the Review Date of an 'ALARP' Accident passes into the past, the Status of the Accident will be downgraded to 'Managed'.

## Initial Accident Probability

The probability of the Accident occurring as defined by the system selected.

Use the pull-down list to select the category to be allocated to the *Probability* of the identified *Accident*.

The Severity category of the Accidents. Use the pull-down list to select the category to be allocated to the possible severity of the identified Accidents.

**Initial Risk Class** 

This field is automatically calculated, using the Accident Severity and Accident Probability, according to the projects Risk Classification Matrix.

## **Accident Post Control Status**

Before an Accident can be assigned as ALARP or Accepted the Post Control Status section of the Accident view must be completed.

This is completed once there is agreement that the control option has been effective. The record includes the data regarding the final classification assessment of the Accident.

Final Accident Probability after implementation of all relevant Controls. Before an Accident can be assigned as ALARP or Accepted the Post Control Status section of the Accident view must be completed.

## Post Control Accident Probability

Final Accident Probability after implementation of all relevant Controls. Before an Accident can be assigned as ALARP or Accepted the Post Control Status section of the Accident view must be completed.

Final Accident Severity after implementation of all relevant Controls. Before an Accident can be assigned as ALARP or Accepted the Post Control Status section of the Accident view must be completed.

This field is automatically calculated, using the Post Control Severity and Post Control Probability, according to the projects Risk Classification Matrix. Notes

Free text field used to record details of the work and decisions. This field is output on the Full Accident Report and so could be used to record minutes of review meetings, etc.

Field for storing additional notes.

## User Definable Field

If this field has been enabled from the Project Lists/User Defined Fields option for Accident entries, then the Accident page displays the field as it has been set up. Use the pull-down list to choose the relevant information as appropriate.

A field to indicate whether the record should be displayed to Read Only Users.

# **Hazard Data Fields:**

### Hazard Number

This is a unique number identifying the Hazard. It is generated automatically within the database when the Hazard progresses beyond "Draft" using the prefix entered in the Project Initiation Page when the project is created and selecting the next available Hazard Reference Number.

A short summary or title for the *Hazard*. **Note:** The *Hazard Title* should be unique as far as is possible to assist subsequent interpretation.

### Hazard Description\*

A detailed description of the potential Hazard covering what the Hazard is, whom it effects, what the effect is likely to be, etc. and includes physical properties (e.g., mass, energy level etc).

Extra details, such as the date the *Hazard* was first identified, can be recorded in this field.

Status of current Hazard.

### Project Phase

The stage of the project in which the Hazard has been identified.

Use the pull-down list to choose the relevant Project Life-Cycle Phase. The default list contains the Smart Procurement Life-Cycle Phases.

Identifies the user who reported the initial Hazard Data.

Use the pull-down menu to select the appropriate originator for the Hazard. This list contains all the project users but a new originator may be entered in the box below if their name is not in the Users Form.

The authority that has responsibility for the control of the Hazard. Use the pull-down list to choose the relevant owner.

### lise

Records the method of use when the Hazard may be encountered, for example Storage, Transport, Training, Operation, Maintenance, Disposal, etc.

Use the pull-down list to identify the use.

### Location

Records the Hazard's physical locality in the Location Breakdown Structure. Use the pull-down menu to select the description of the main area the identified Hazard will be physically located. Selecting the gear wheel icon to the left of the System field will reveal the Location breakdown screen. Highlighting an element of the Location breakdown and clicking the Select button will record the physical locality for the particular Hazard.

Records the origin of the Hazard within the System Breakdown Structure. Use the pull-down menu to select the description of the main area the identified Hazard will affect. Selecting the gear wheel icon to the left of the System field will reveal the System breakdown and clicking the Select button will record the origin for the particular Hazard.

### Hazard Type

This field records the generic Hazard Type which describes the nature of the Hazard e.g. Environmental, Inherent, Functional etc.

Use the null-down list to identify the nature of the Hazard.

# Initial Hazard Probability

The probability of the Hazard occurring as defined by the system that has been selected. Use the pull-down list to select the category to be allocated to the probability of the identified Hazard.

Use the pull-down list to select the Hazard's probability of occurrence.

## Post Control Status

Once a Hazard is in its open status and before it can be closed, the Post Control Status section within the Hazard view should be completed. A pull-down menu is provided listing the Post Control Status probability scores that may be selected.

The Post Control Status may be completed once there is agreement for a post control target for the Hazard, or the score achieved from the control option having been effective.

Field for storing additional notes.

## User Definable Field

If this field has been enabled from the Project Lists/User Defined Fields option for Hazard entries, then the Hazard view displays the field as it has been set up. Use the pull-down list to choose the relevant information as

## Private

A field to indicate whether the record should be displayed to Read Only Users.

## **Control Data Fields:**

### Control Number

This is a unique number identifying the Control. Initial Control entry sets this field to Draft. However, after the Control has been linked to a Hazard, Cause or Accident (as appropriate), the Control's status can then be changed beyond Draft. The Control Number is then automatically generated along with a sequential suffix number.

### Note: Linking of Controls to Hazard or Accident Records within eCassandra

The Cassandra Hazard Management Log tool has been developed to enable mitigation Control Measures to be linked to Hazard Records or Cause Records.

Once a mitigation a Control Measure has been linked to a Hazard or Cause Record, it can not then be linked to an Accident Record.

Emergency measures that are used to mitigate the impact of any possible Accident Record associated with the Hazard Record should be mitigated through the use of specific Accident Control Measures.

Once an Accident Control Measure has been linked to an Accident Record, it may not then be linked to a Hazard.

Control Measures linked to one record set may be duplicated, the duplicated Control Measure may then be linked to the other record set.

### Control Title\*

A short summary or title for the Control (up to 75 characters).

### D-----

This is a description of the control option being put forward to control the Hazard, Cause or Accident. If there is more than one option, a separate form is completed for each, hence the suffix numbers.

### Action Window

The Action Window identifies the period or time interval during which the Control can be effected. The Action Window is composed of four parts, a text box, the Decision Date, Start Date and End Date (The date input will be used to indicate the latest date the Control must be selected, in order for the Control to be implemented and must be in the future). The text box allows the user to give an explanation of the time period.

Note: If the Control Status is Active, the End Date entered here is mandatory.

### Control Status

A Control may have a Status of **Draft, Active, Implemented** or **Not Used,** a pull-down menu is provided to select the appropriate Status. Before a Control can be set to **Active** or **Implemented** the appropriate fields must be completed on this form and it must be *Linked* to the a *Hazard, Cause* or *Accident*. Once a Control has been agreed to as **Implemented** the implemented date should be completed.

### Change To

Indicates what aspects of the project will be affected by the Control (Design| Documentation| Procedures/Training etc.)

### Implemented

Records the date the Control was implemented.

If the Control is not implemented then this box should be left blank and the Control record will not be approved.

### Manager

Identifies the Manager responsible for devising and implementing the Control Options.

### Funded

Indicates whether a Control is Funded or Unfunded.

### **Budget Details**

Records the information regarding the funding of the control.

## **Reference Data Fields:**

## Reference Numbe

This is a unique number identifying the Reference and is automatically generated by eCassandra...

## Туре

A selection of pre-defined options may be selected from the pull-down menu. These options are:

- Source Data References
- Standards and Statutory Requirements
- Requirements
- Incidents

The choice made influences whether Originator's References, Originator, Status or Paragraph fields are displayed to the user within the Reference view.

## Source Data References

Source Data References, which identify the Hazard, should be referenced using this form, e.g. HAZOPS and technical analyses such as FTAs, FMECAs etc.

## Standards and Statutory Requirements

This type of reference refers to national and international standards, such as Def Stan 00-56, Mil Std 882D, British Standards, and statutory requirements, such as the Health & Safety at Work Act, the Environmental Action (1990), Road Traffic Act, Air Navigation Order, JAR

## Requirements

This reference category refers to staff requirements, staff targets, etc or contractual requirements between companies.

## Incident and Accident Reports

This category is self-explanatory. It is likely that many Incident or Accident Reports will be generated during development or in-service. Examples of defence in-service reports are S.2022s, MoD Form 720s and MoD Form 760s.

## Serial Number

Enter a suitable reference number for the Reference.

## Title

Enter the reference document's title.

## Hyperlink

Where electronic access to the reference document is available, enter the Hyperlink address. Selection of the Hyperlink address will enable the reference document to be displayed provided access to it is enabled (this is outside the scope of eCassandra).

Note: Links to external websites need to include the "http://" prefix for the application to link to them directly.

### Originator

If the originator for the reference document is known, enter this information (or similar information, e.g. page or paragraph number).

### Originator Ref

If the originator for the reference document has their own specific reference, enter this information (or similar information, e.g.: Chapter or Section).

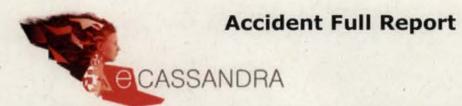
### Status

This field is displayed if Requirements is chosen for the Reference Type. Enter the current status for the Requirement, for example these could include: Draft status, Issue 1, Release Data.

### Paragraph

This field is displayed if Requirements is chosen for the Reference Type. Enter the appropriate paragraph reference, for example: P23, Para 40. This field is limited to 20 characters.

В	С	D	E	F	G	Н	i i	J	K	L	M
Haz Ident	Hazard Causes	Hazard Description (Loss Model Hazard) (Common Cause Group) (Sensitivity)	(LM Prob) (CC Prob) (S Prob)	Accident Sequence	Acc Seq Prob	Acc Ident	Accident Description	Accident Probability	Derived Acc Prob (LM derived Prob) (CC derived Prob) (Sensitivity Prob)	Notes	(Loss Model Level 3 Accident (Loss Model Level 4 Accident
	6					12					0.
H102		Presence of asbestos constitutes Health & Safety Hazard.	Осс	Hazard occurs	1.000	A103	Severe occupational illness from asbestosis.	Improb	ALARP?		GC fatality, aircraft on ground static
			1.00E-04	Maintainers/aircrew accesses component that has asbestos in it	0.001				1.00E-09		Ground crew fatality
				Maintainers/aircrew exposed to asbestos	0.010						AO fatality, aircraft on ground static
		Exposure to hazardous materials (Haz 28 - All causes)	1.50E-04	Maintainers/aircrew develops severe occupational illnesses or single maintainer fatality occurs	1.000				ALARP?		Aircraft Occupant fatality
		- (2000 - 1,0)		and a section to the section of the					1.50E-09		
		No common cause or incident(s) applicable to this entry	1.00E-04						e egginan en		
								1	ALARP?		
		Sensitivity Prob (2011-17 - No common cause or incident(s) applicable to this entry)	1.00E-04						1.00E-09		
									ALARP?		
									1.00E-09		
				I	b.						



# Report Summary

Generated on 18 March 2019

Number of Records 1

# **Report Criteria**

Accident: Number = "A103" AND Project: Archived is False Project Title: Sea King Hazard Log

### Accident Data For A103

Accident Number: A103

Accident Title: Severe occupational illness from asbestosis.

Accident Description: Severe occupational illness from asbestosis.

Project Phase: In service

Accident To: First and Second Parties

Review Date: 31/12/2018

Originator:

Owner: Ministry of Defence

Notes: Probability of accident will be less than hazard as prolonged exposure is required to harm personnel.

Asbestos Elimination programme in progress ( Warnings in relevant publications provide mitigation in interim.

SKCSP2 12 Aug 08 - Following LOD Holder (SKMM) review, Control created using the latest information contained within the Jun 08 Sea King Typed Airworthiness Report. Entry set to Managed.

SKCSP2 24 Feb 09 - Entry reviewed by SKMM during the 9th LOD Holder Hazard Log Review Meeting. LOD Holder confirmed that the entry is ALARPt / Immediate I.e. now, however once all Asbestos parts have been replaced through the WOTSAC programme (detailed at C676), this entry can be considered ALARP.

SKPT Safety1 22 Aug 11 - This entry was reviewed by SQEP personnel in Q1/Q2 2011 during the SKPT's Accident Sequence Analysis activity (R517-19) refers (and was classed as a Critical Accident). In accordance with the SKPT's Safety & Environmental Management Plan (SEMP) Issue 7 ALARP strategy, all risks (accidents) and their associated hazards where the resultant derived accident probability (blue figure) is less than E-09 are considered broadly acceptable and therefore classed as D22 and ALARP by the SKPT. For the actual derived accident probabilities, refer to the associated Accident Sequence spreadsheet (R518). In this instance even when taking into account the associated Hazard (All causes) and the common cause probabilities (pink and blue figures respectively), the derived accident probabilities remain within this broadly acceptable (D22) / ALARP range.

SKPT Safety1 05 Sep 11 – This entry was reviewed by SQEP personnel on 31 Aug 11 during the SKPT's Accident Sequence Follow up Analysis activity (R522). This entry was reviewed because the sensitivity probability (green figure) within the associated accident sequence spreadsheet is not classified as ALARP however, for this entry it was agreed with a high confidence level that all associated incidents would be reported and that the actual number of reported incidents would be included/reflected within the common cause probability (blue figure) which is less than E-09 for Catastrophic entries or within the broadly acceptable (D22) range for Critical entries. In both cases regardless of Accident severity, the entry is considered broadly acceptable and ALARP by the SKPT iaw the SEMP and ALARP Strategy.

1 200	· Initial	Post	
robability:	Improbable	Incredible	
everity:	Critical	Critical	
tisk Class:	C15	D22	-
			ľ

ALARP

S

Status:

# **Linked Hazard Data**

# SK/H102

**Hazard Number:** 

SK/H102

**Hazard Title:** 

Presence of asbestos constitutes Health & Safety Hazard.

**Hazard Description:** 

Exposure of aircrew and/or maintenance personnel to asbestos.

**Project Phase:** 

In service

Originator:

Ministry of Defence

Owner: Use :

Operation

System:

00. Multiple Systems

Location:

**Hazard Type:** 

Inherent

Initial

Post

Probability:

Occasional

Occasional

Status:

Closed

Notes:

Asbestos Elimination Programme is in progress. Warnings in relevant publications provide mitigation in

interim.

Refer to Accident Notes.

## **Linked Reference Data**

SK/R77

Reference Number:

SK/R77

Title:

TAR report Jun 04.

Reference Type:

Requirements

Serial Number:

148

Hyperlink:

TAR May 04#\\YEW1\rootfs\ \Group\EUNDESSeaKing\-\_REC Deliver\InSvcSp\Safety\Type Airworthiness Report\TAR May 04.doc#

Originator Ref. :

Originator:

SK/R304

Reference Number:

SK/R304

Title:

5th Hazard Log Entry review meeting with LOD Holder SKMM held at the Sea King IPT on the 12 Aug

08. Hyperlinked Loose Minute detailing decisions agreed during review meeting signed by LOD Holder

and subsequently filed.

Reference Type:

Source Data References

Serial Number:

Hyperlink:

\Group\EUNDESSeaKing\-\_REC Deliver\InSvcSp\Safety\Aircraft and \\YEW1\rootfs\ Safety Mgmt\Meetings\HRM\20080813-LM 5th LOD Holder (SKMM) Review Meeting - 12 Aug

2008-U.doc

Originator Ref. :

ES(AIR)(VL)/16/08/01/10/05

Originator:

SKCSP2

SK/R312

Reference Number:

SK/R312

Title:

Sea King Typed Airworthiness Report (TAR) dated June 2008.

Reference Type:

Source Data References

Serial Number:

Hyperlink:

20080709-TAR June 08-R.doc#\\YEW1\rootfs\ \Group\EUNDESSeaKing\- REC

Deliver\InSvcSp\Safety\Type Airworthiness Report\20080709-TAR June 08-R.doc#

Originator Ref. :

DLO/SKIPT/16/8/1/24/1

Originator:

SKCSP2

SK/R354

Reference Number:

SK/R354

Title:

9th Hazard Log Entry review meeting with LOD Holder SKMM held at the Sea King IPT on the 23 Feb 09. Hyperlinked Loose Minute detailing decisions agreed during review meeting signed by LOD Holder and

subsequently filed.

Reference Type:

Source Data References

Serial Number:

Hyperlink:

20090224-LM 9th LOD Holder (SKMM) Review Meeting - 23 Feb

2009-U.doc#\\YEW1\rootfs\ \Group\EUNDESSeaKing\- REC

Deliver\InSvcSp\Safety\Aircraft and Safety Mgmt\Meetings\HRM\20090224-LM 9th LOD Holder (SKMM)

Originator Ref. :

ES(AIR)(VL)/16/08/01/10/05

A-1-1---

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# **Status History Data**

Status	Change Date	Approving Officer	Risk Class	Justification
Draft	23/11/2004			Created through import from Cassandra Import Facility
Open	12/05/2006	SKCSP2		Status set to Open.
Managed	12/08/2008	SKCSP2		Accident was set to Managed on the 12 Aug 08.
Managed	13/08/2008	SKCSP2		
Managed	13/08/2008	SKCSP2		PCS set following the creation of the linked control.
Managed	22/08/2011		C15	
Managed	22/08/2011		C15	
Managed	22/08/2011		C15	
Managed	22/08/2011		D22	Accident achieved a Post Control Status of Incredible / Critica (D22) following the SKPTs Accident Sequence Analysis activit
ALARP	22/08/2011		D22	in Q1/Q2 2011 (R518-19 refers). The Accident was set to ALARP on 22 Aug 11 following the SKPTs Accident Sequence Analysis activity in Q1/Q2 2011 (R518-19 refers) where the derived risk (Accident) probabilities (blue and pink figures) were found to be less
ALARP	22/08/2011		D22	than E-09.
ALARP	05/09/2011		D22	
ALARP	06/09/2011		D22	
Managed	31/07/2016	SYSTEM		This Accident History record was automatically created due to
ALARP	07/12/2016		D22	the ALARP status becoming expired. Entry status changed back to ALARP to reflect previous SQEP
Managed	08/12/2016	SYSTEM		assessment.  This Accident History record was automatically created due to
ALARP	08/12/2016	SYSTEM		the ALARP status becoming expired.  This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
ALARP	19/04/2017		D22	Controls).  Accident Status reverted back to Managed due to an unknown
				reason therefore Accident status changed back to ALARP as previously agreed by an appropriate LoAA Holder following
Managed	20/04/2017	SYSTEM		Accident Sequence Analysis.  This Accident History record was automatically created due to the ALARP status becoming expired.
LARP	20/04/2017	SYSTEM		This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
ALARP	26/04/2017		D22	Controls).  Accident Status reverted back to Managed due lapsed review date therefore review date updated and Accident status changed back to ALARP as previously agreed by an appropriate LoAA Holder following Accident Sequence Analysis. All entries refreshed annually; last
LARP	27/04/2017	SYSTEM		reviewed/refreshed in Jan 17.  This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
LARP	28/04/2017	SYSTEM		Controls).  This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
LARP	29/04/2017	SYSTEM		Controls). This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
LARP	30/04/2017	SYSTEM		Controls). This Accident History record was automatically created due to the ALARP status being reset to AlarpOkay (No Active
LARP	01/05/2017	SYSTEM		Controls).  This Accident History record was automatically created due to

ALARP	02/05/2017	SYSTEM
ALARP	03/05/2017	SYSTEM
ALARP	04/05/2017	SYSTEM
ALARP	05/05/2017	SYSTEM
ALARP	06/05/2017	SYSTEM
ALARP	07/05/2017	SYSTEM
ALARP	08/05/2017	SYSTEM
ALARP	09/05/2017	SYSTEM
ALARP	10/05/2017	SYSTEM
ALARP	11/05/2017	SYSTEM
ALARP	12/05/2017	SYSTEM
ALARP	13/05/2017	SYSTEM
ALARP	14/05/2017	SYSTEM
ALARP	15/05/2017	SYSTEM
ALARP	16/05/2017	SYSTEM
ALARP	17/05/2017	SYSTEM
ALARP	18/05/2017	SYSTEM
ALARP	19/05/2017	SYSTEM
ALARP	20/05/2017	SYSTEM
ALARP	21/05/2017	SYSTEM
ALARP	22/05/2017	SYSTEM
ALARP	23/05/2017	SYSTEM
ALARP	24/05/2017	SYSTEM
ALARP	25/05/2017	SYSTEM
ALARP	26/05/2017	SYSTEM

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ALARP	27/05/2017	SYSTEM
ALARP	28/05/2017	SYSTEM
ALARP	29/05/2017	SYSTEM
ALARP	30/05/2017	SYSTEM
ALARP	31/05/2017	SYSTEM
ALARP	01/06/2017	SYSTEM
ALARP	02/06/2017	SYSTEM
ALARP	03/06/2017	SYSTEM
ALARP	04/06/2017	SYSTEM
ALARP	05/06/2017	SYSTEM
ALARP	06/06/2017	SYSTEM
ALARP	07/06/2017	SYSTEM
ALARP	08/06/2017	SYSTEM
ALARP	09/06/2017	SYSTEM
ALARP	10/06/2017	SYSTEM
ALARP	11/06/2017	SYSTEM
ALARP	12/06/2017	SYSTEM
ALARP	13/06/2017	SYSTEM
ALARP	14/06/2017	SYSTEM
ALARP	15/06/2017	SYSTEM
ALARP	16/06/2017	SYSTEM
ALARP	17/06/2017	SYSTEM
ALARP	18/06/2017	SYSTEM
ALARP	19/06/2017	SYSTEM
ALARP	20/06/2017	SYSTEM

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ALARP	21/06/2017	SYSTEM
ALARP	22/06/2017	SYSTEM
ALARP	23/06/2017	SYSTEM
ALARP	24/06/2017	SYSTEM
ALARP	25/06/2017	SYSTEM
ALARP	26/06/2017	SYSTEM
ALARP	27/06/2017	SYSTEM
ALARP	28/06/2017	SYSTEM
ALARP	29/06/2017	SYSTEM
ALARP	30/06/2017	SYSTEM
ALARP	01/07/2017	SYSTEM
ALARP	02/07/2017	SYSTEM
ALARP	03/07/2017	SYSTEM
ALARP	04/07/2017	SYSTEM
ALARP	05/07/2017	SYSTEM
ALARP	06/07/2017	SYSTEM
ALARP	07/07/2017	SYSTEM
ALARP	08/07/2017	SYSTEM
ALARP	09/07/2017	SYSTEM
ALARP	10/07/2017.	SYSTEM
ALARP	11/07/2017	SYSTEM
ALARP	12/07/2017	SYSTEM
ALARP	13/07/2017	SYSTEM
ALARP	14/07/2017	SYSTEM
ALARP	15/07/2017	SYSTEM

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ALARP	16/07/2017	SYSTEM
ALARP	17/07/2017	SYSTEM
ALARP	18/07/2017	SYSTEM
ALARP	19/07/2017	SYSTEM
ALARP	20/07/2017	SYSTEM
ALARP	21/07/2017	SYSTEM
ALARP	22/07/2017	SYSTEM
ALARP	23/07/2017	SYSTEM
ALARP	24/07/2017	SYSTEM
ALARP	25/07/2017	SYSTEM
ALARP	26/07/2017	SYSTEM
ALARP	27/07/2017	SYSTEM
ALARP	28/07/2017	SYSTEM
ALARP	29/07/2017	SYSTEM
ALARP	30/07/2017	SYSTEM
ALARP	31/07/2017	SYSTEM
ALARP	01/08/2017	SYSTEM
ALARP	02/08/2017	SYSTEM
ALARP	03/08/2017	SYSTEM
ALARP	04/08/2017	SYSTEM
ALARP	05/08/2017	SYSTEM
ALARP	06/08/2017	SYSTEM
ALARP	07/08/2017	SYSTEM
ALARP	08/08/2017	SYSTEM
ALARP	09/08/2017	SYSTEM

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ALARP	01/11/2017	SYSTEM
ALARP	02/11/2017	SYSTEM

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# MAINTENANCE POLICY LEAFLET 115 ASBESTOS ELIMINATION

### REFERENCES

- Control of Asbestos Regulations 2006 further amplified the 1999 Regulations.
- MoD Asbestos Elimination Programme details the requirement to identify and eliminate asbestos.
- C. JSP375 Leaflet 05.

### **APPLICABILITY**

Sea King All Marks.

### INTRODUCTION

(1) The health concerns linked to exposure to asbestos has led to the introduction of numerous regulations to which the MoD must adhere. The MoD is committed to identifying the current uses of asbestos and progressing its elimination in accordance with the References.

### AIM

(2) The aim of this leaflet is to bring to the attention of all engineering personnel involved in the maintenance of Sea King aircraft, the potential existence of Asbestos Containing Material (ACM) within the structure, the location of the components and the steps being taken to eliminate or reduce the risk.

### **ACTION**

#### **ASBESTOS EVALUATION**

- (3) The Sea King is a legacy platform which was introduced before the changes to asbestos regulations, consequently the original design included a number of ACM components.
- (4) The Sea King Project Team, in conjunction with the engine and aircraft Design Organisations introduced a series of modifications in 2005 / 2006 respectively to replace components manufactured from ACM. These modifications were classified as C3 WOTSAC (When Old Type Spares Are Consumed) modifications. The WOTSAC rider meant that all pre-mod stock was to be used before post-mod stock was issued. Logistic supply chain interrogation has identified that as recently as 2018, ACM components were still available therefore it is not possible to positively prove ACM components have been successfully eradicated from the platform.
- (5) Leonardo Helicopters Ltd and the Merlin Delivery Team (MDT) have carried out a detailed investigation utilising all available data including historical drawings and documentation in an attempt to identify all possible use of ACM on the Sea King helicopter.

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#### **ASBESTOS ELIMINATION**

- (6) In July 2018 the MDT (Sea King Type Airworthiness Authority (TAA)) took immediate action to contain and manage any risk to personnel employed to maintain the remaining fleet of Sea King aircraft, including the issue of urgent SI(T)s. The overall management and elimination of ACM for Sea King aircraft will be carried out using the following measures:
  - (a) With reference to the Annex A & B risk categories, remove asbestos components from the aircraft under the following hierarchy:
    - (i) The immediate removal of RED items through SI(T).
    - (ii) The active review and removal of AMBER components at suitable maintenance opportunities.
    - (iii) The passive replacement of GREEN components during routine replacements (e.g. through life expiry, unserviceability or access availability brought about by component removal).
  - (b) Cease the purchase of spares or new equipment containing asbestos.
  - (c) The quarantine and disposal of all packed stock, which is confirmed as containing asbestos.
- (7) Where potential ACM components are to be left in-situ this will only be allowed subject to one or more of the following conditions:
  - (a) The component presents no hazard to maintenance personnel due to the asbestos component being housed within a higher assembly which is not disassembled other than by the Original Equipment Manufacturer (OEM) or specialist organisation.
  - (b) The risk of exposure to personnel in removing the asbestos component is greater than leaving the item in-situ.
- (8) Personnel working on the aircraft equipment detailed at Annex A & B are to, in conjunction with their local SHEF Team, carry out a risk assessment and follow the SME guidelines at Annex C.

### Annexes:

- A. ECU components that may contain asbestos.
- B. Aircraft Components that May Contain Asbestos.
- C. Institute of Naval Medicine SME advice.

# OFFICIAL SENSITIVE

# AP101C-0400-2(NR)1A1

### KEY FOR ANNEX A & B

Risk C	Cat Definition
A: High	Visible fibres / loose fibres. Suspect asbestos item likely to be touched / disturbed / removed or replaced during maintenance / training activities.
B Mediun	Fibres embedded in a matrix Fitted location obscure unlikely to be
C Low	No visible material. Not fitted, not visible, contained within higher assembly

Action	Definition
A	Alternative identified - Programme planned or on-going
В	Alternative identified - Replacement not practical
С	No suitable alternative identified
D	Not accessible by User Unit

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Key for Annex A

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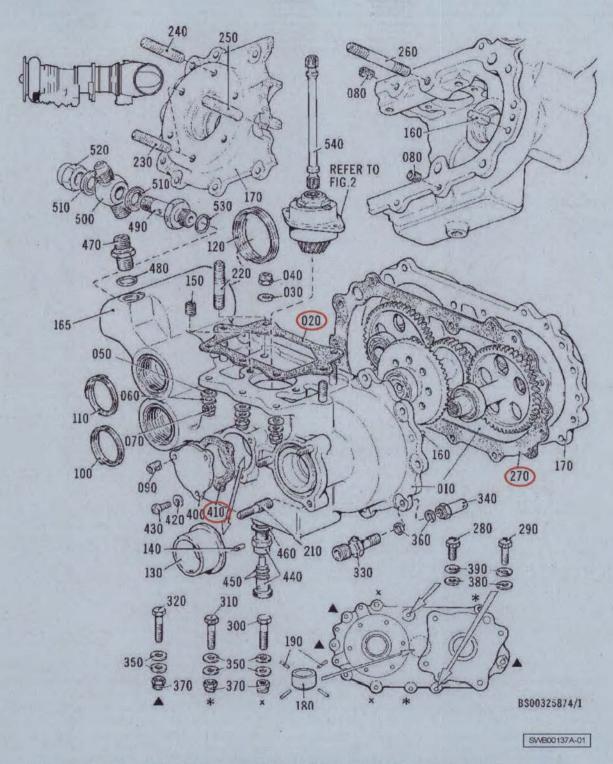
Page 3

Part No.	Description	Location	Reference		Risk	Action
			App'x	Item	Cat	
2317	Gasket, Accessory Drive Casing	Accessory Drive Casing	A-1	20		
1457	Gasket, Cover	Accessory Drive Casing	A-1	270		
1459	Gasket, Cover Blanking	Accessory Drive Casing	A-1	410		
2622	Gasket, Adaptor to Oil Pump	Bevel Gearbox	A-2	630		M. I
576801	Gasket, Drain Cover	Combustion Chamber	A-3	80		
N13220	Gasket, Adaptor	Front Frame and Accessory Drive	A-4	80		1
570599	Gasket, Accessory Drive to Starter	Front Frame and Accessory Drive	A-4	320		
560396	Gasket, Flow Divider to Combustion Chamber	Flow Divider	A-5	210		-
7999	Gasket, Flow Divider to Stiffening Bracket	Flow Divider	A-5	220		
2846	Gasket, Full Fuel Flow Filter to Pump	Fuel Pipes on Left Hand Side of Engine	A-6	20		
570520	Gasket, Fuel Pump Mounting Face	Fuel Pump and Flow Control Unit	A-7	20		
576857	Gasket, Ignitor And Blanking Plugs	Igniter Plug Blank	A-8	30	TE	
1451	Gasket, Oil Filter	Oil Filter and Valves	A-9	60		
564267	Gasket, Oil Filter, By-Pass Valve	Oil Filter and Valves	A-9	150		
1452	Gasket, Oil Pressure Relief Valve	Oil Filter and Valves	A-9	240		
4046	Gasket, Oil Pump to Accessory Drive Casing	Oil Pump	A-10	20	TO BE	
2622	Gasket, Adaptor to Oil Pump	Oil Pump	A-10	170		
6552	Gasket, Tachometer to Adaptor	Oil Pump	A-10	190		
2622	Gasket, OTG to Bevel Gearbox	Overspeed Trip Governor Unit	A-11	20		
AS4651	Gasket, Adaptor to Bevel Gearbox	Overspeed Trip Governor Trip Unit	A-11	20		
1712	Gasket, Pipe, Flange to Exhaust Case	Cooling Air Pipes (aft of Fireshield)	A-12	80		
1724	Gasket, Housing Front Bearing	Power Turbine Casing Shrouds and Baffle	A-13	50		
1714	Gasket, OTG Gearbox to Ex Casing	Power Turbine and Exhaust Assembly	A-14	220		
1712	Gasket, Pipe Air Cooling PTA Rear	Power Turbine and Exhaust Assembly	A-14	290		
1714.	Gasket, Drive Pad Cover	Power Turbine and Exhaust Assembly	A-14	320		
567273	Gasket, Oil Jet Housing	Rear Frame	A-15	240		1
AS4650	Gasket, Adaptor, Dual Tachometer	Dual Tachometer Generator Power Turbine Speed	A-16	20		

SWB00136A-02

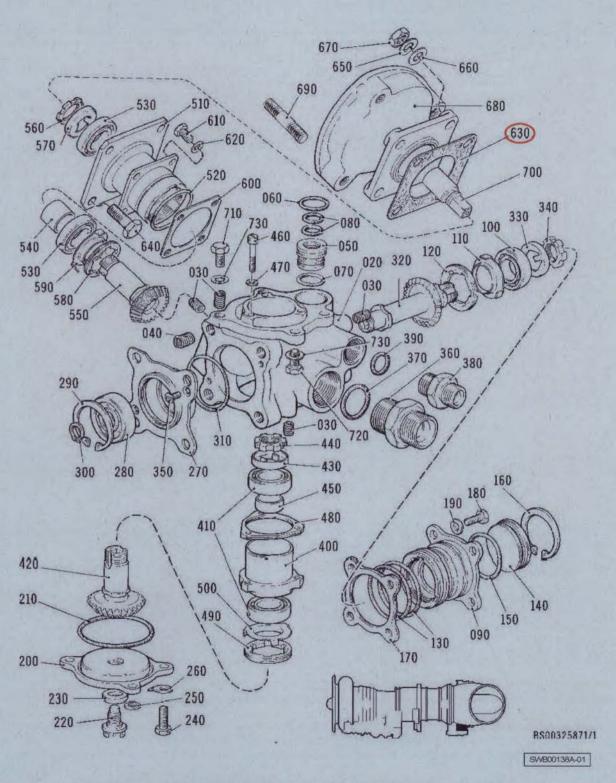
Annex A to MPL115 - ECU Components that May Contain Asbestos

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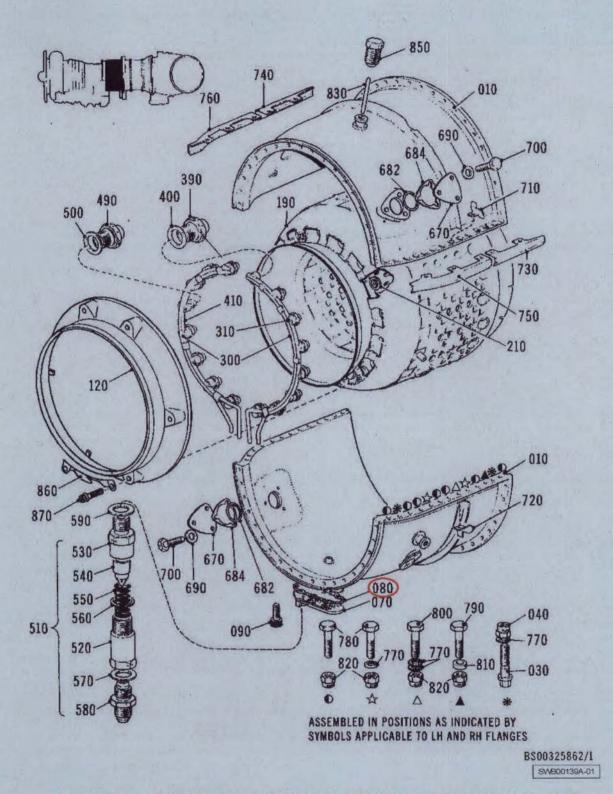
Appendix A-1 ECU Components that May Contain Asbestos - Accessory Drive Casing

Page 5



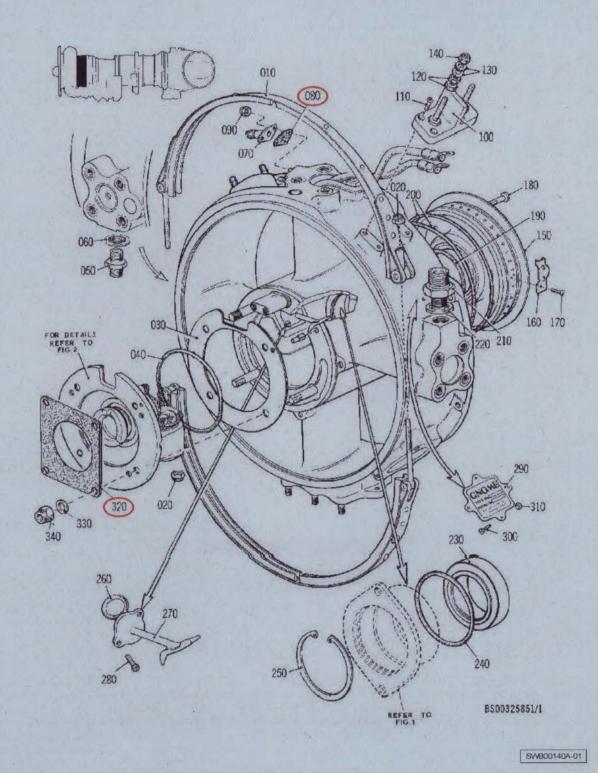
Appendix A-2 ECU Components that May Contain Asbestos - Bevel Gearbox

AIL 01/18

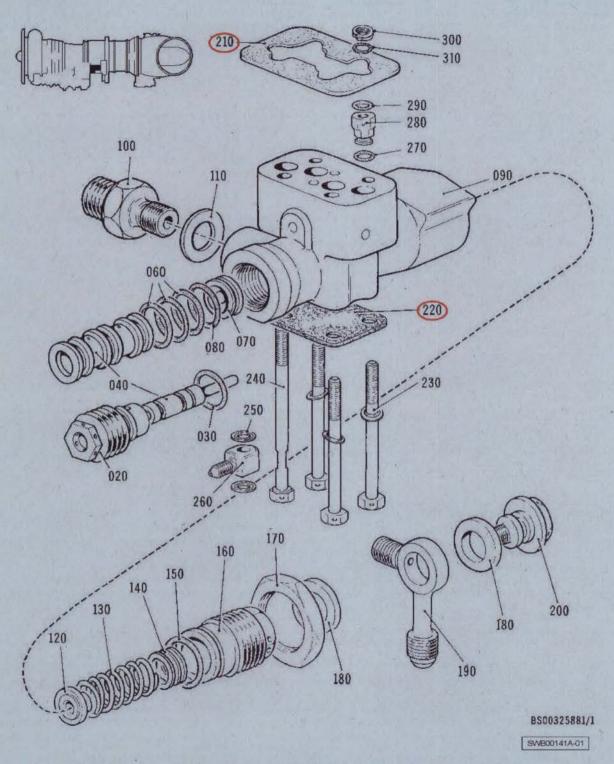


Appendix A-3 ECU Components that May Contain Asbestos - Combustion Chamber

Page 7

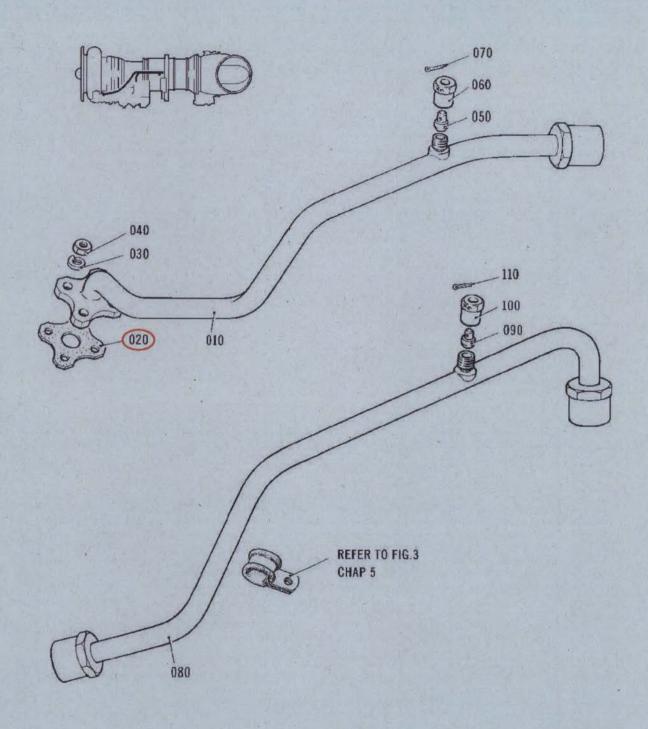


Appendix A-4 ECU Components that May Contain Asbestos - Front Frame and Accessory Drive



Appendix A-5 ECU Components that May Contain Asbestos - Flow Divider

Page 9

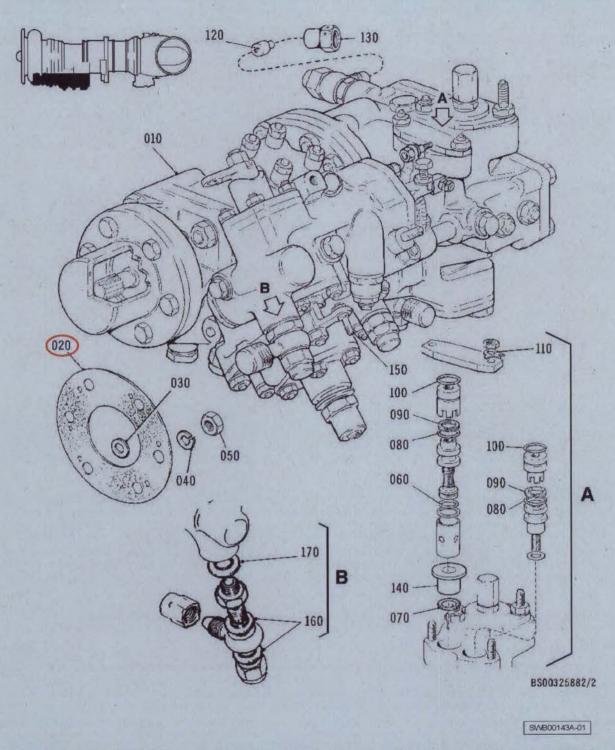


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Appendix A-6 ECU Components that May Contain Asbestos - Fuel Pipes on Left Hand Side of Engine

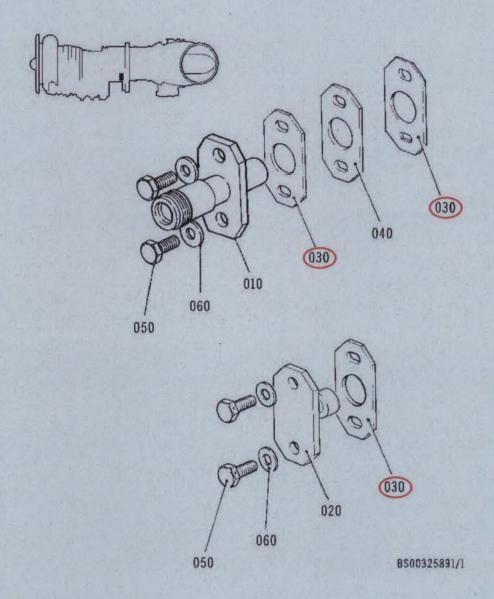
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Appendix A-7 ECU Components that May Contain Asbestos - Fuel Pump and Flow Control Unit

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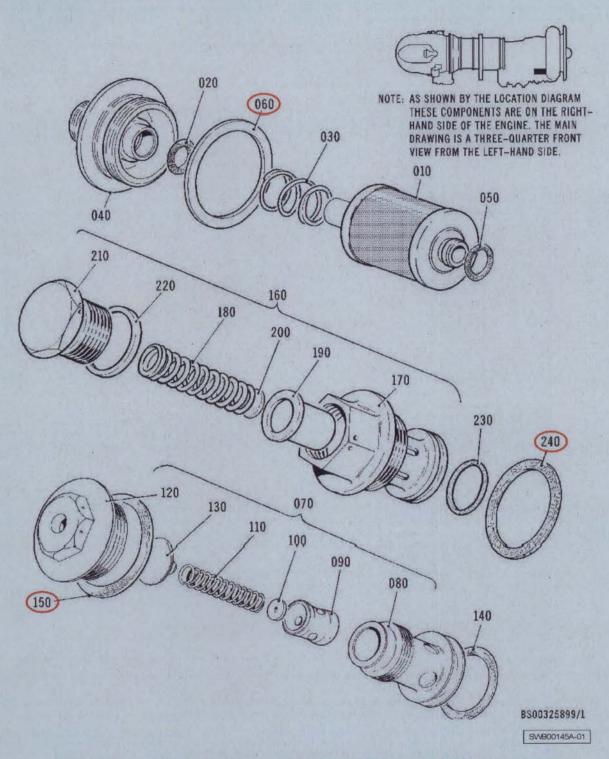


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Appendix A-8 ECU Components that May Contain Asbestos - Igniter Plug and Blank

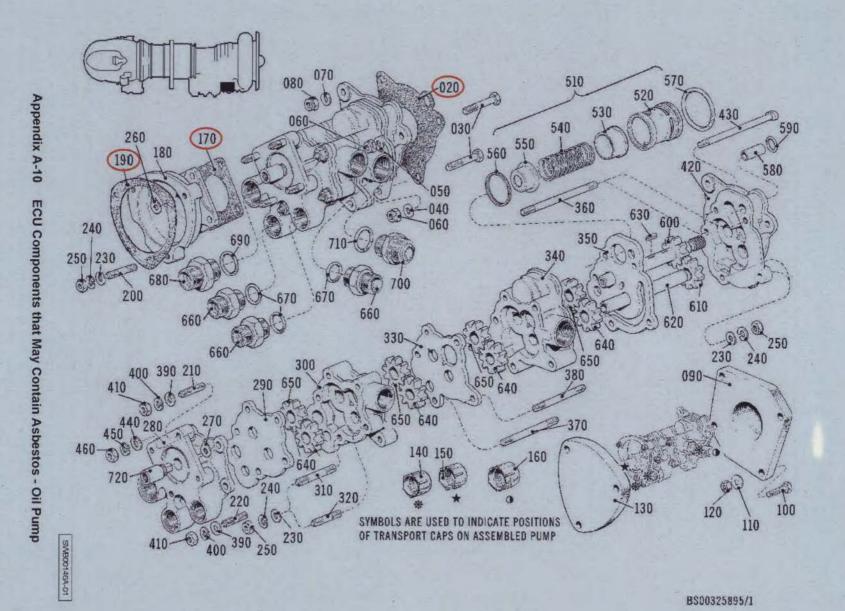
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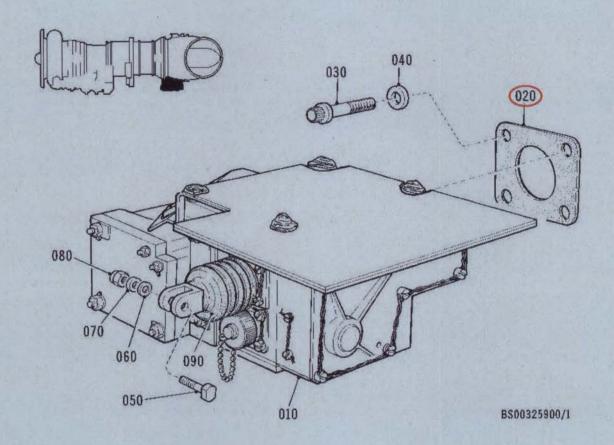


Appendix A-9 ECU Components that May Contain Asbestos - Oil Filter and Valves

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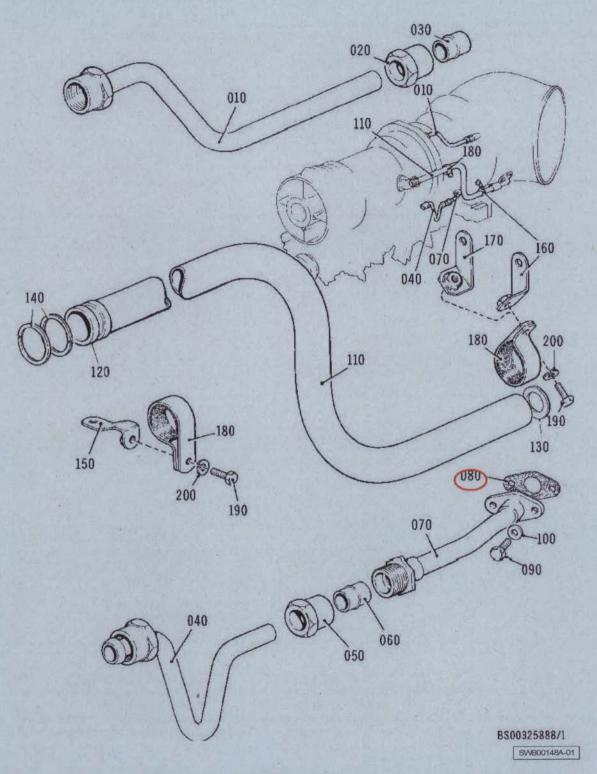


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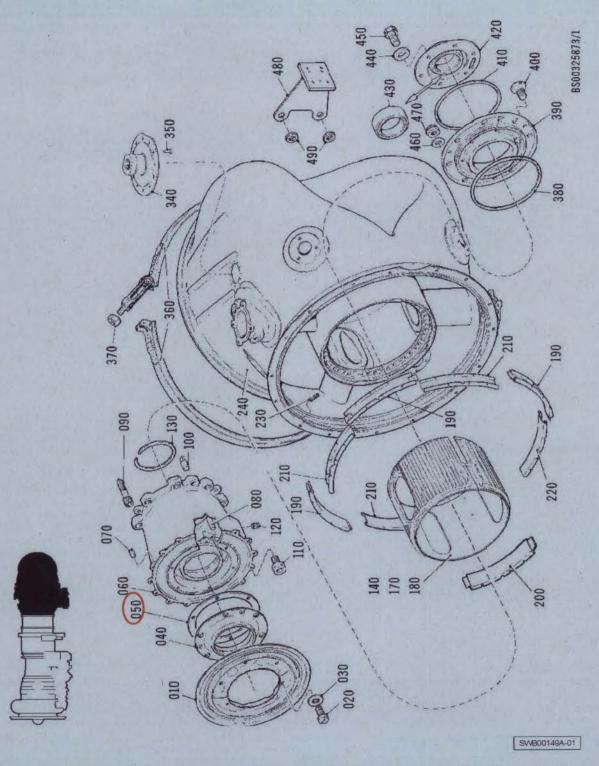
Appendix A-11 ECU Components that May Contain Asbestos - Overspeed Trip Governor Unit

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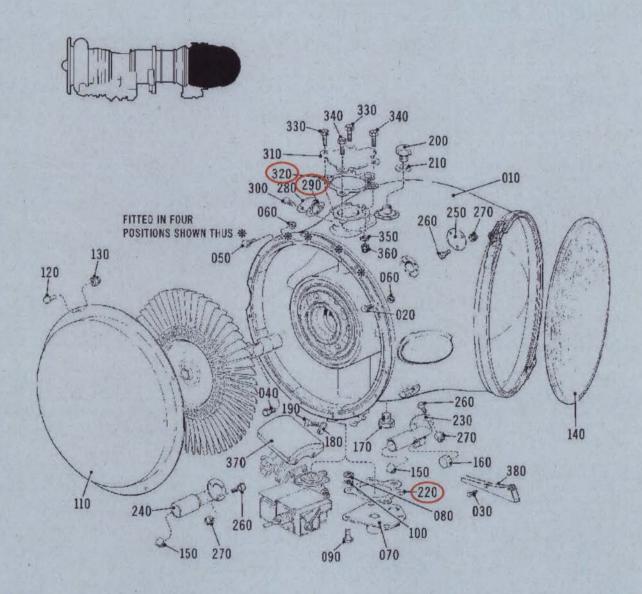


Appendix A-12 ECU Components that May Contain Asbestos - Cooling Air Pipes (Aft of Fireshield)



Appendix A-13 ECU Components that May Contain Asbestos - Power-Turbine Casing Shrouds and Baffle

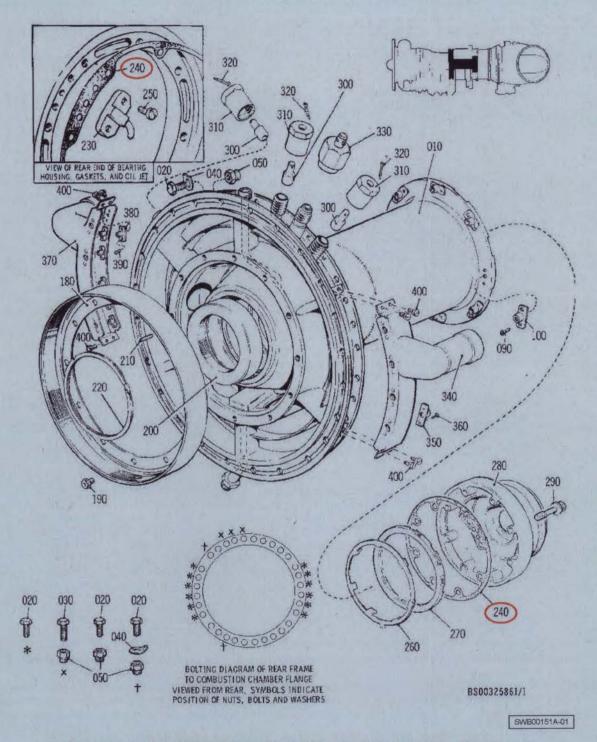
Page 17



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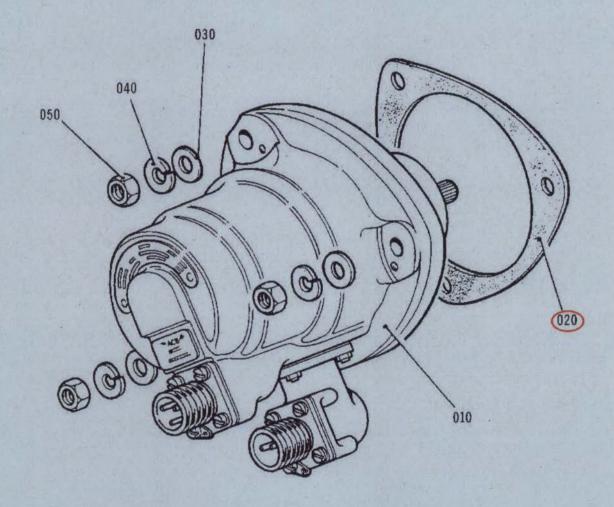
Appendix A-14 ECU Components that May Contain Asbestos - Power Turbine and Exhaust Casing

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Appendix A-15 ECU Components that May Contain Asbestos - Rear Frame

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Appendix A-16 ECU Components that May Contain Asbestos - Dual Tachometer-Generator Power Turbine Speed

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# OFFICIAL SENSITIVE

# AP101C-0400-2(NR)1A1

# KEY FOR ANNEX A & B

	Risk Cat	Definition
A:	High	Visible fibres / loose fibres. Suspect asbestos item likely to be touched / disturbed / removed or replaced during maintenance / training activities.
В	M edium	Fibres embedded in a matrix. Fitted, location obscure, unlikely to be touched or disturbed
С	Low	No visible material. Not fitted, not visible, contained within higher assembly

Action	Definition
Α	Alternative identified - Programme planned or on-going
В	Alternative identified - Replacement not practical
С	No suitable alternative identified
D	Not accessible by User Unit

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Key for Annex B

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Part Number	Description	Location	A/C Mk	Reference		Risk	Action
3,331,331,331				App'x	Item	Cat	Action
45514-1101	Oil Cooler and Fan Unit	Utility Hydraulic	3, 3a, 4, 5 & 7	B-1	21B		
45514-1102	Oil Cooler and Fan Unit	Utility Hydraulic	3, 3a, 4, 5 & 7	B-1	21C		
45514-1371	Oil Cooler and Fan Unit	Utility Hydraulic	6	B-1	21D		
92420	Oil Cooler	Utility Hydraulic	All	B-1	23D		
43474-1016	Oil Cooler	Utility Hydraulic	All	B-1	23E		
AN4044-1	Gasket	Utility Hydraulic	All	B-2	22		
AN4044-1	Gasket	Utility Hydraulic	All	B-3	47		
AN4044-1	Gasket	Utility Hydraulic	All	B-3	27B		10
WD01-10-92800	Seal	Engine Cowling	3, 3a, 4, 5, 6 & 7	B-4	31		UTI/SK/01
WD01-10-92800	Seal	Engine Cowling	3, 3a, 4, 5, 6 & 7	B-5	30		UTI/SK/01
WD01-10-92801	Seal	Engine Cowling	3, 3a, 4, 5, 6 & 7	B-5	25		LITTI/SK/01
WD01-10-90680	Gasket	Engine Centre Firewall	3, 3a, 4, 5, 6 & 7	B-6	12		
WD01-10-90679	Gasket	Engine Centre	3, 3a, 4, 5, 6 & 7	B-6	13		
WD01-10-92821	Seal	Power Unit Engine	3, 3a, 4, 5, 6 & 7	B-7	10		UTI/SK/01
WD01-10-92822	Seal	Power Unit Engine	3, 3a, 4, 5, 6 & 7	B-7	12		LITUSK/01
WD01-10-92823	Seal	Power Unit Engine	3, 3a, 4, 5, 6 & 7	B-7	14		LITI/SK/01
WD01-10-92824	Seal	Bay Power Unit Engine					The same of the sa
		Bay Power Unit Engine	3, 3a, 4, 5, 6 & 7	B-7	16		UTVSK/01
ND01-10-92892	Seal	Bay	3, 3a, 4, 5, 6 & 7	B-7	22		UTI/SK/01
WD01-10-92893	Seal	Power Unit Engine Bay	3, 3a, 4, 5, 6 & 7	B-7	24		LITUSK/01
WD01-10-92905	Seal	Power Unit Engine Bay	3, 3a, 4, 5, 6 & 7	B-7	30		UTI/SK/01
WD01-10-92906	Seal	Power Unit Engine Bay	3, 3a, 4, 5, 6 & 7	B-7	32		UTI/SK/01
ND01-10-92904	Seal	Power Unit Engine Bay	3, 3a, 4, 5, 6 & 7	B-7	40		UTI/SK/01
ND01-10-92903	Seal	Power Unit Engine Bay	3, 3a, 4, 5, 6 & 7	B-7	38		UTVSK/01
WD01-81-23151	Fairlead	Fairleads and Conduits Cabin	3, 3a, 4, 5, 6 & 7	B-8	30		
WD01-81-23075	Fairlead	Fairleads and	3, 3a, 4, 5, 6 & 7	B-8	48	-	
ND01-81-23115	Fairlead	Conduits Cabin Fairleads and	3, 3a, 4, 5, 6 & 7	B-9	40		
ND4174-00028-041	Insulating Muff	Conduits Cabin Cabin Heating	3. 3a & 4	B-10	2	HOU	
ND4174-00044-041	Insulating Muff	Cabin Heating	3. 3a & 4	B-10	3		
ND4174-00048-041	Insulating Muff	Cabin Heating	3. 3a & 4	B-10	4		
ND4174-00092-041	Insulating Muff	Cabin Heating	3. 3a & 4	B-10	5		
ND0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a & 4	B-10	9		
ND4174-00027-041	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	11		
ND4174-00026	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	13		
ND4174-00024-045	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	14		
ND0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a & 4	B-10	17		
ND4174-00026	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	20		
ND4174-000025	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	31		
ND0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a & 4	B-10	33		
ND4174-00026	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	36		
ND4174-00040	Pipe Assy	Cabin Heating	3, 3a & 4	B-10	47		

SWB00153A-02

Annex B to MPL115 (Sheet 1) - Aircraft Components that May Contain Asbestos

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# AP101C-0400-2(NR)1A1

Part Number	Description	Location	A/C Mk	Reference		Risk	Action
Faltivaliber				App'x	item	Cat	Action
WD01-74-90123	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-10	-51		
WD0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a, 4 & 6	B-10	55		
WD0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a, 4 & 6	B-10	60		
WD01-74-90119	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-10	68		
565383	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-10	79		4
WD01-74-90119	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-11	5		
BAS160-6-5-24-16	Connecting Sleeve	Heating / Ventilation	3, 3a, 4 & 6	B-11	9		
BAS160-6-5-24-16	Connecting Sleeve	Heating / Ventilation	3, 3a, 4 & 6	B-11	24		
565383	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-11	37		
WD4174-00028-041	Insulating Muff	Cabin Heating	3, 3a & 4	B-12	9		
WD4174-00098-041	Insulating Muff	Cabin Heating		B-12	10		
WD4174-00028-041	Insulating Muff	Cabin Heating	3, 3a & 4	B-12	11		
WD4174-00006-041	Insulating Muff	Cabin Heating	3, 3a & 4	B-12	12		
WD0474-00005-041	Insulating Muff	Cabin Heating	Mk 4 only	B-12	13		
WD4174-00099-041	Insulating Muff	Cabin Heating		B-12	14		15
WD0174-90003	Connecting Sleeve	Heating / Ventilation	3, 3a & 4	B-12	18		
WD4174-00027	Pipe Assy	Cabin Heating	3, 3a & 4	B-12	24	F T	
MS9136-01 / AN4047-1	Gasket	MRGB Accessory Drive	3, 3a, 4, 5, 6 & 7	B-13	9		
MS9134-01 / AN4045-1	Gasket	MRGB Accessory Drive	3, 3a, 4, 5, 6 & 7	B-13	34		To the
WD0174-90003	Connecting Sleeve	Sonar Heating	3, 3a, 4, 5 & 6	B-14	6		
565383	Gasket	Sonar Heating	3, 3a, 4, 5 & 6	B-14	7		
WD01-74-90119	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-14	17		
WD0174-90003	Connecting Sleeve	Sonar Heating	3, 3a, 4, 5 & 6	B-14	23		
WD0174-90003	Connecting Sleeve	Sonar Heating	3, 3a, 4, 5 & 6	B-14	30		
565383	Gasket	Sonar Heating	3, 3a, 4, 5 & 6	B-14	31	-	
WD01-74-90119	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-14	42		
WD01-74-90123	Gasket	Cabin Heating	3, 3a, 4, 5 & 6	B-14	50		
WD01-74-90180	Pipe Assy	Sonar Heating	6	B-15	1		
WD0174-90003	Connecting Sleeve	Sonar Heating	3, 3a, 4, 5 & 6	B-15	13		
BAS160-6-2-32-12	Connecting Sleeve	Sonar Heating	6	B-15	29		
WD01-47-90079	Auto/ Manual Control Cable	Engine Bay		B-16	25		Mk 7 AER
MS9134-01	Gasket	Hoist BL10300-59		B-17	156		
AN763-12	Gasket	Fuselage	5, 6	B-18	7		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-19	57		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-19	120		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-19	187		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-20	57		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-20	111		
AN763-12	Gasket	Fuel Cell Vent Lines	3, 3a, 4, 5, 6 & 7	B-20	121		
AN763-24	Gasket	Fuel System Lower Fuselage	3, 3a, 4, 5, 6 & 7	B-21	29		

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Annex B to MPL115 (Sheet 2) - Aircraft Components that May Contain Asbestos

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Part Number	Description	Location	A/C Mk	Reference		Risk	Action
				App'x	Item	Cat	Action
AN763-24	Gasket	Fuel System Lower Fuselage	3, 3a, 4, 5, 6 & 7	B-21	31		
AN763-24	Gasket	Fuel System Lower Fuselage	3, 3a, 4, 5, 6 & 7	B-22	60		
AN763-24	Gasket	Fuel System Lower Fuselage	3, 3a, 4, 5, 6 & 7	B-22	62		
NDN3305/267	RPU Gasket	Autopilot	3, 3a, 4, 5, 6 & 7	B-23	6		
NDN3305/284	RPU Gasket	Autopilot	3, 3a, 4, 5, 6 & 7	B-23	6		
NDN8681-01	Controller AFCS	Autopilot	3, 3A	B-24	2		
NDN8140-01	Parrallel Actuator Pre Mod 490	Collective Pitch Control	3, 3A	B-25	41		
AA34024-14	AD3400 VHF-UHF Controller	Interseat Console	5, 6, 7	B-26	3		
UA6047-5	Distribution Box	Intercomm	5, 6	B-27	3		
	Gasket	Water Boiler	3, 3A	B28	9		
HE50844Z46	Gasket	Water Boiler	3, 3A	B28	18		
HE50844Z40	Nut Plain	Water Boiler	3, 3A	B28	35		
HE50844M11	Washer Flat	Water Boiler	3, 3A	B28	36		
HE50844Z38	Packing Preformed	Water Boiler	3, 3A	B28	39		
HE50844Z38	Packing Preformed	Water Boiler	3, 3A	B28	44	1 1	
HE50844Z84	Washer Flat	Water Boiler	3, 3A	B28	76		
HE50844Z51	Gasket	Water Boiler	3, 3A	B28	85		
HE50844Z33	Washer	Water Boiler	3, 3A	B28	87		

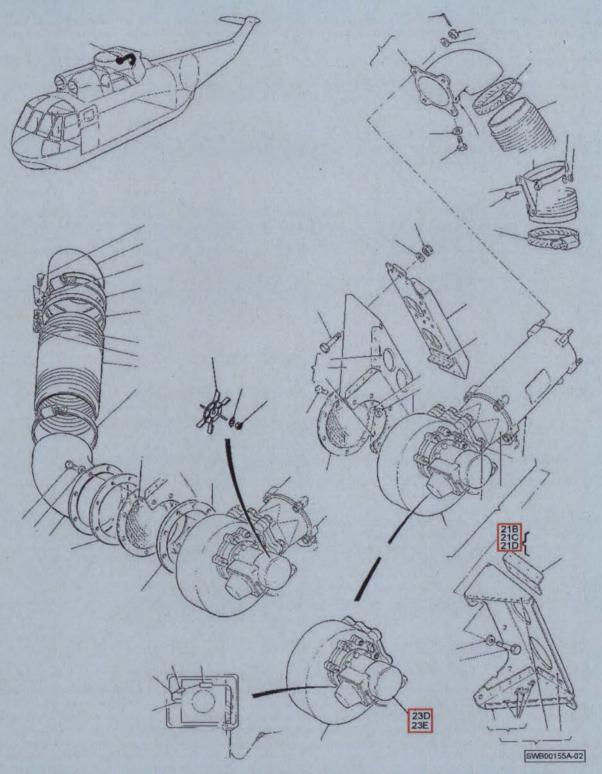
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Annex B to MPL115 (Sheet 3) - Aircraft Components that May Contain Asbestos

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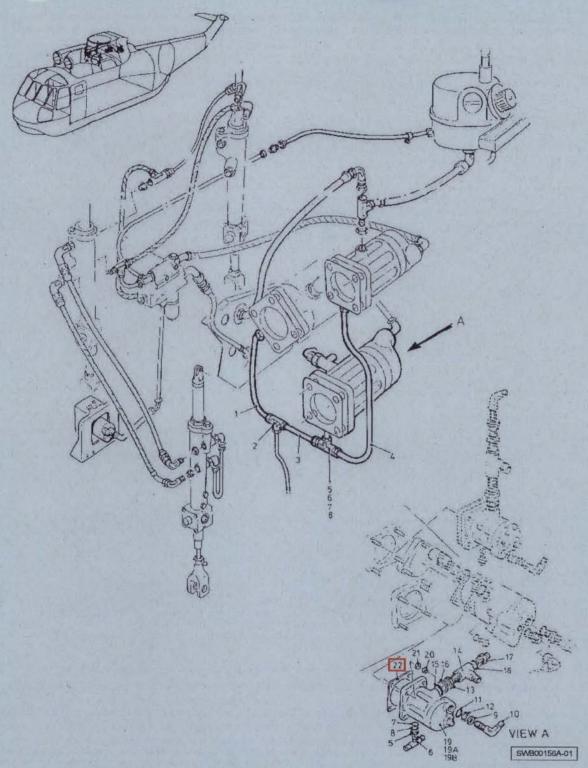
# AP101C-0400-2(NR)1A1



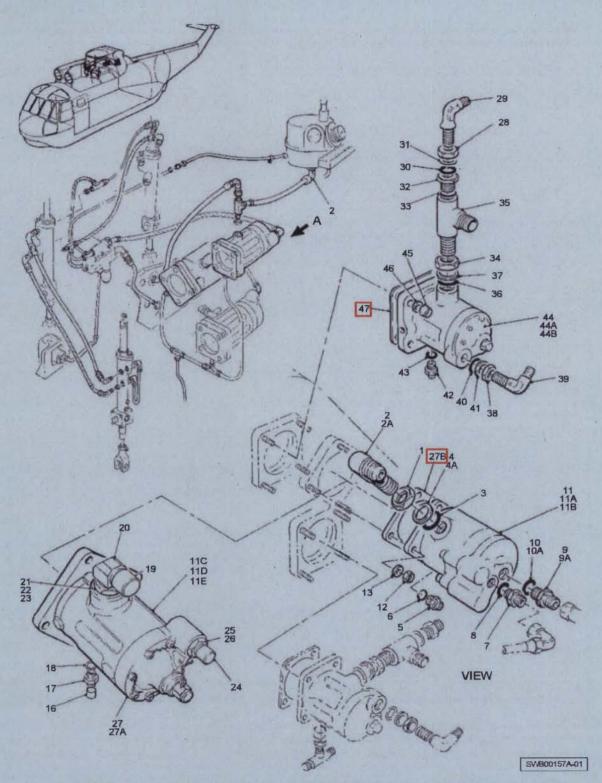
Appendix B-1 Aircraft Components that May Contain Asbestos - Oil Cooler and Fan Unit

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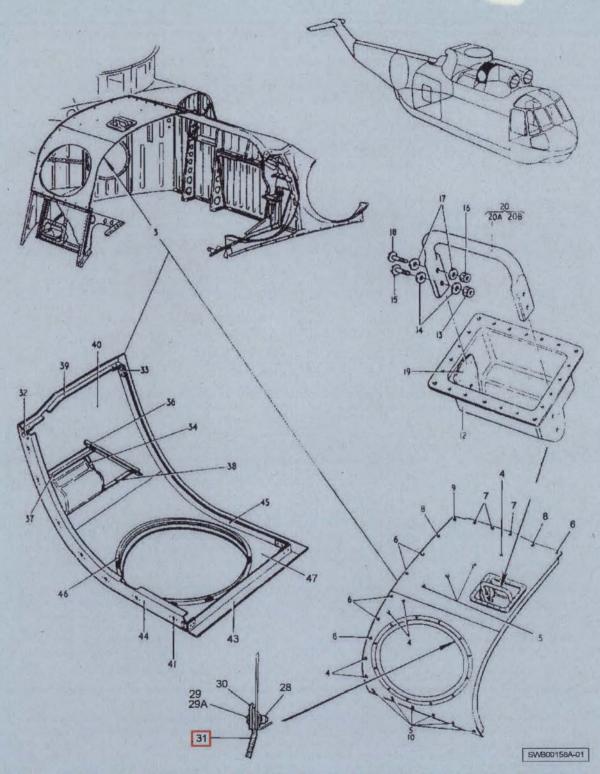


Appendix B-2 Aircraft Components that May Contain Asbestos - Main-Rotor Gear-Box Hydraulic Pumps

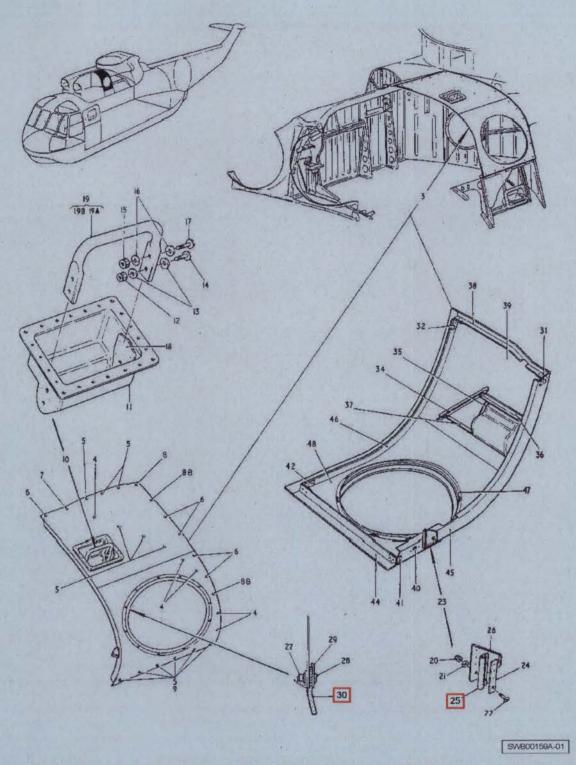


Appendix B-3 Aircraft Components that May Contain Asbestos - Main-Rotor Gear-Box Hydraulic Pumps

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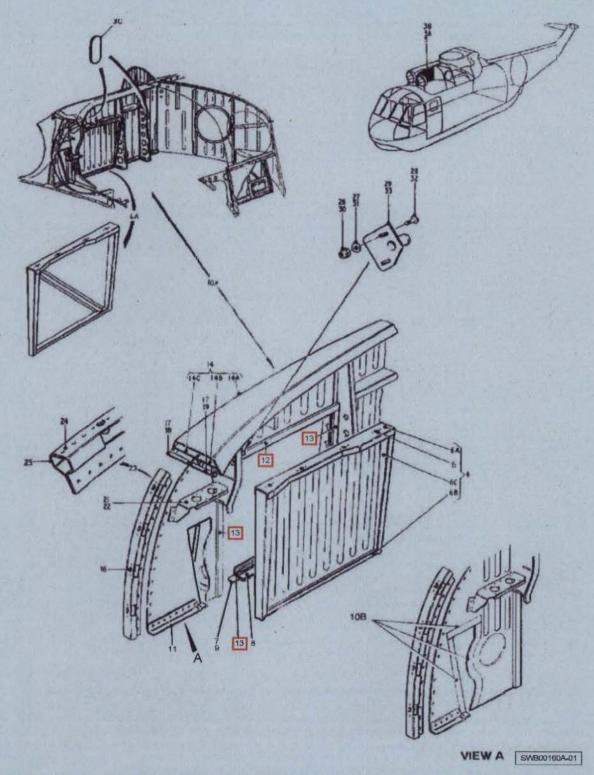


Appendix B-4 Aircraft Components that May Contain Asbestos - Engine Cowling Panel, Rear (Right Hand Side)

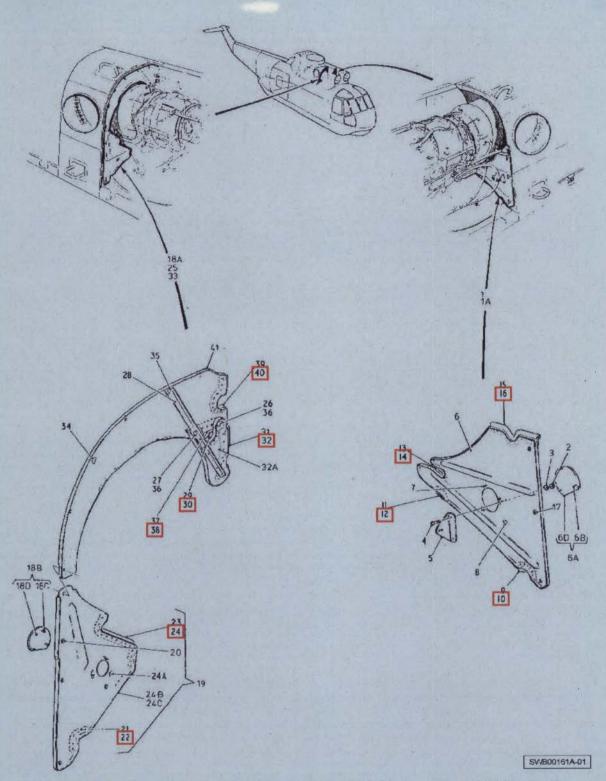


Appendix B-5 Aircraft Components that May Contain Asbestos - Engine Cowling Panel, Rear (Left Hand Side)

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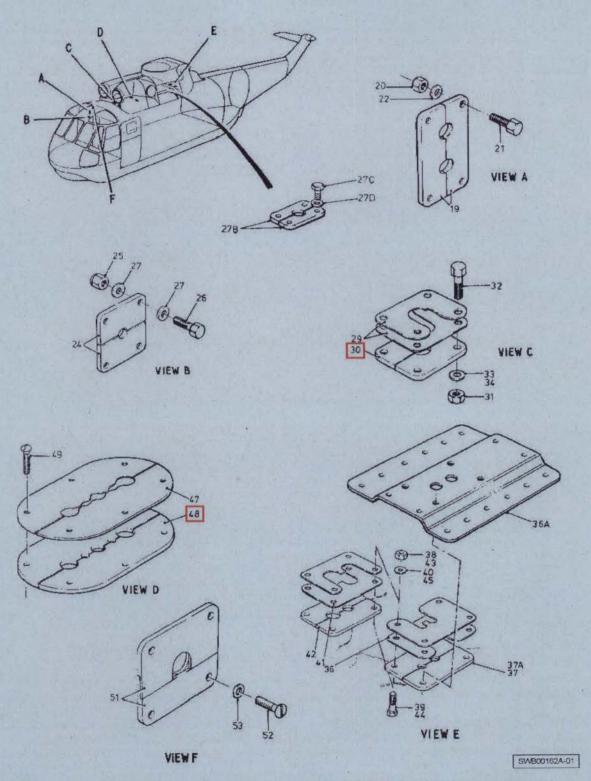


Appendix B-6 Aircraft Components that May Contain Asbestos - Engine-Compartment Firewall Bulkhead

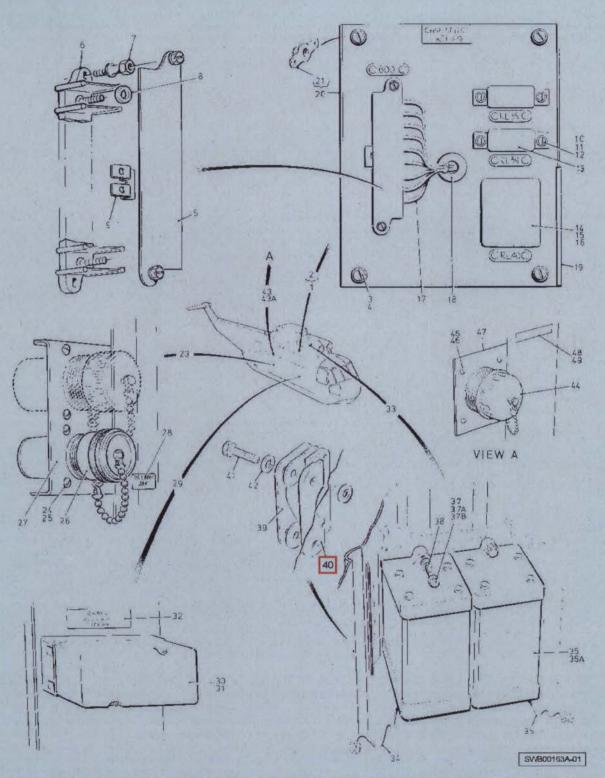


Appendix B-7 Aircraft Components that May Contain Asbestos - Power Unit Engine Bay

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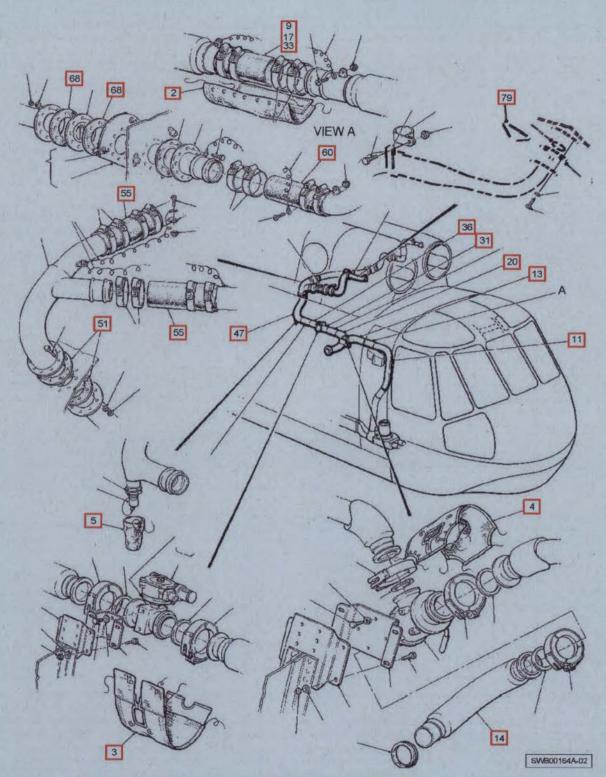


Appendix B-8 Aircraft Components that May Contain Asbestos - Fairleads and Conduits

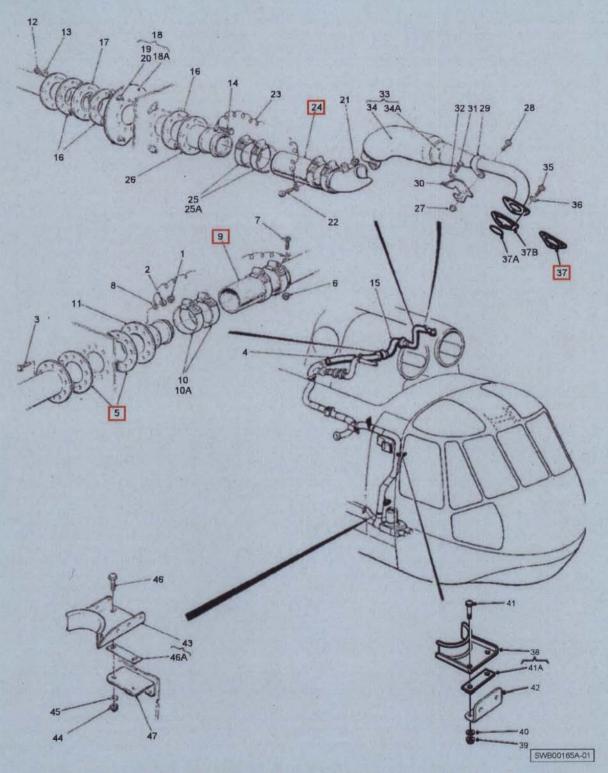


Appendix B-9 Aircraft Components that May Contain Asbestos - Electrical Power Supplies and Distribution (Control and Regulation, Cabin)

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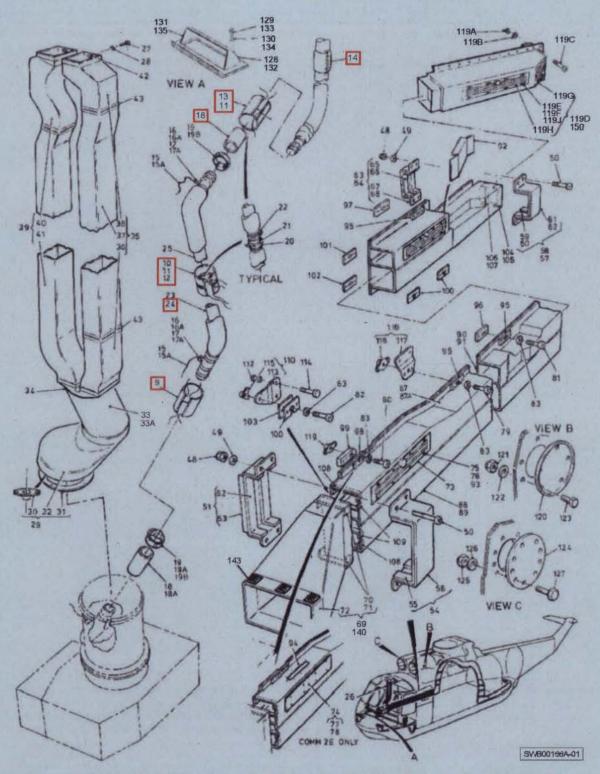


Appendix B-10 Aircraft Components that May Contain Asbestos - Heating and Ventilation

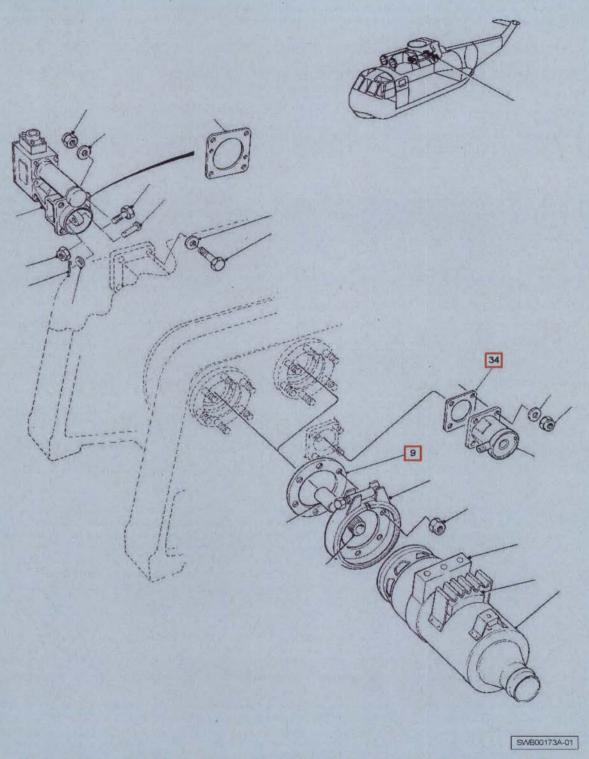


Appendix B-11 Aircraft Components that May Contain Asbestos - Heating and Ventilation

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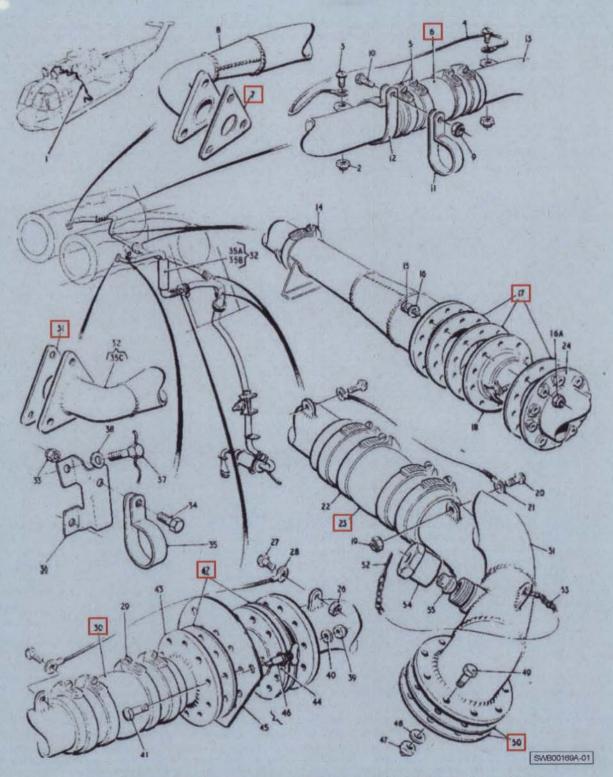


Appendix B-12 Aircraft Components that May Contain Asbestos - Heating and Ventilation



Appendix B-13 Aircraft Components that May Contain Asbestos - Main-Rotor Gear-Box

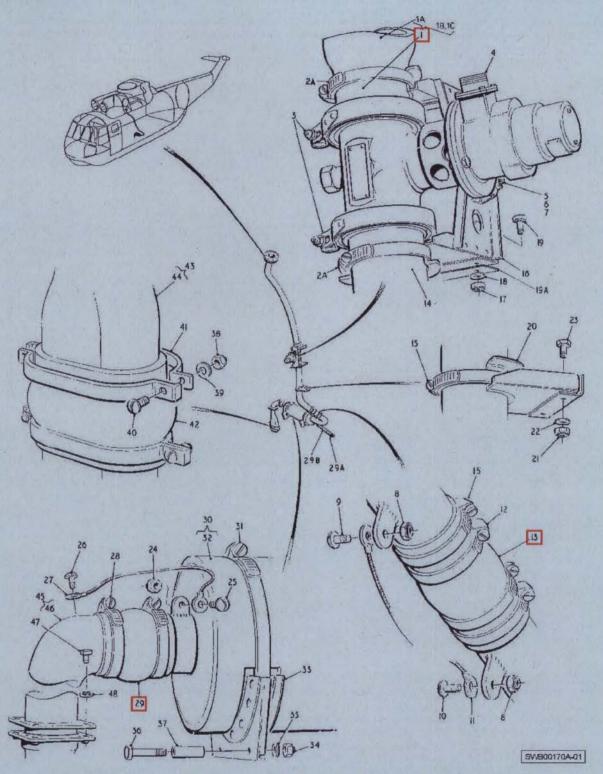
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Appendix B-14 Aircraft Components that May Contain Asbestos - Sonar Heating

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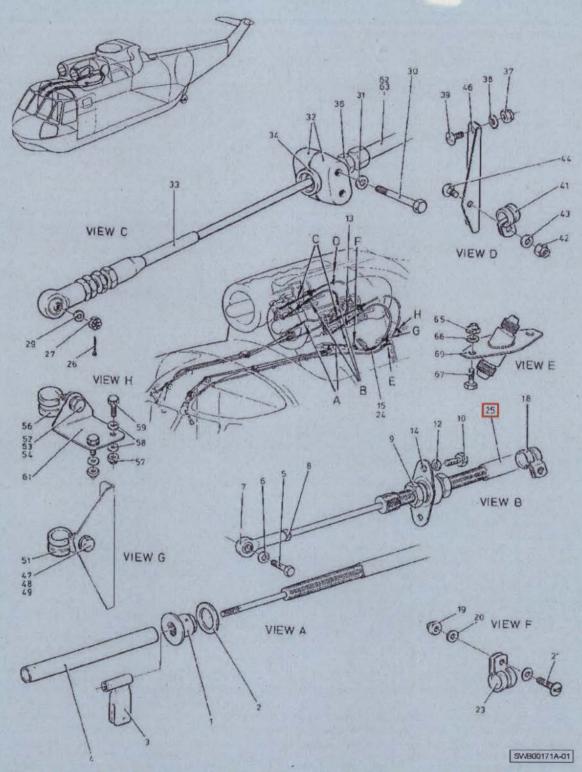
# AP101C-0400-2(NR)1A1



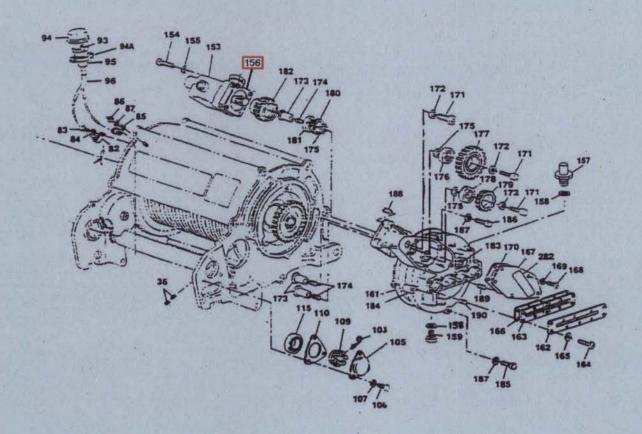
Appendix B-15 Aircraft Components that May Contain Asbestos - Sonar Heating

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Appendix B-16 Aircraft Components that May Contain Asbestos - Auto/Manual Control

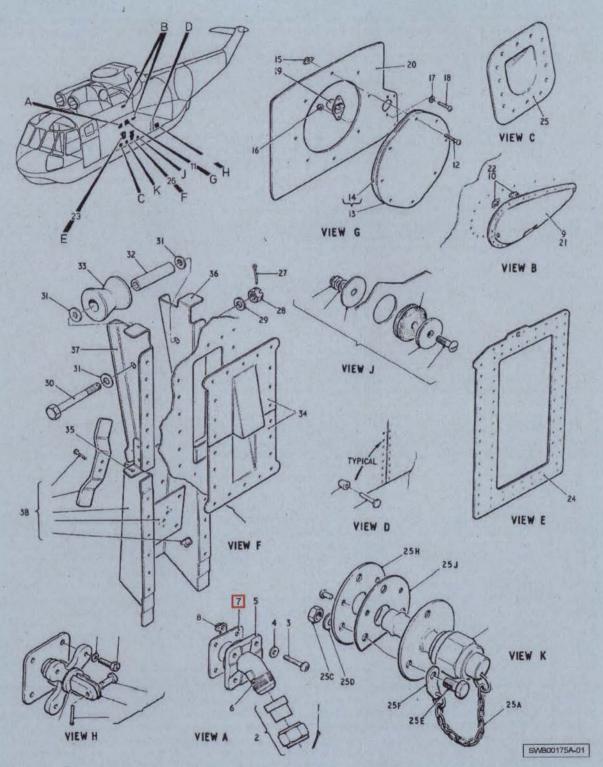


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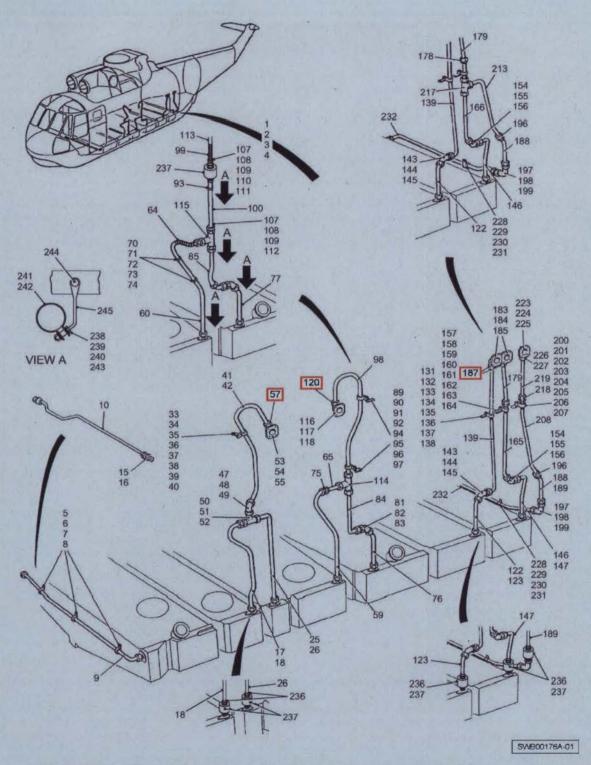
Appendix B-17 Aircraft Components that May Contain Asbestos - Hoist

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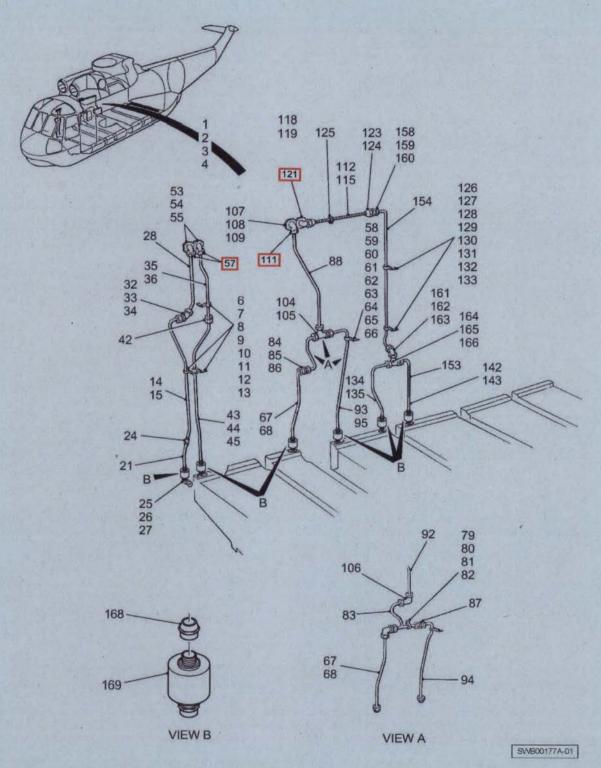


Appendix B-18 Aircraft Components that May Contain Asbestos - Fuselage

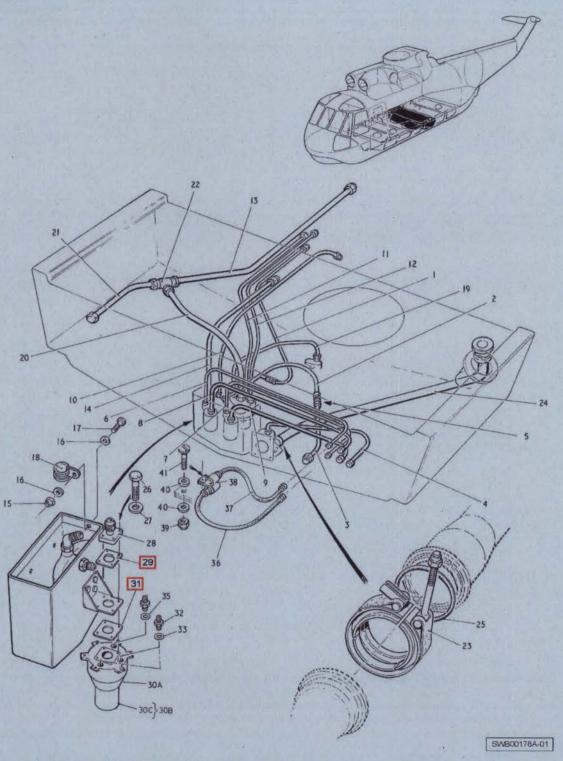


Appendix B-19 Aircraft Components that May Contain Asbestos - Fuel Cell Vent Lines

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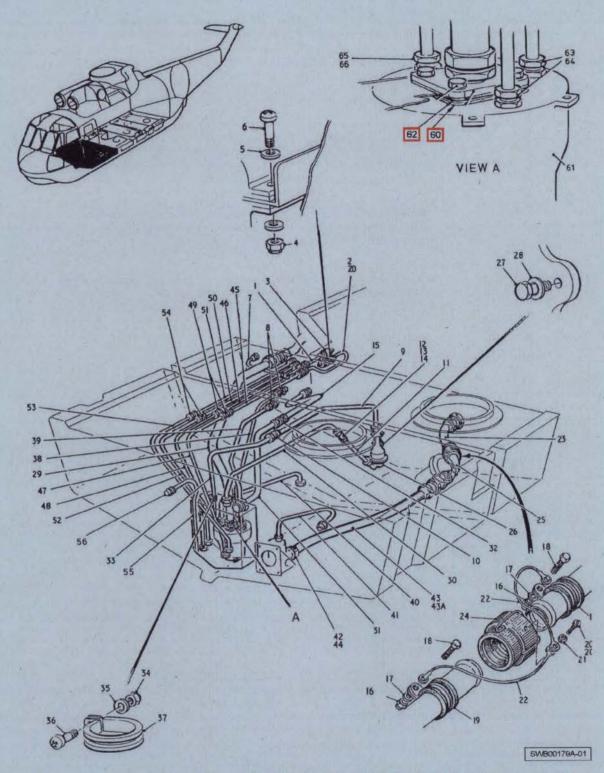


Appendix B-20 Aircraft Components that May Contain Asbestos - Fuel Cell Vent Lines

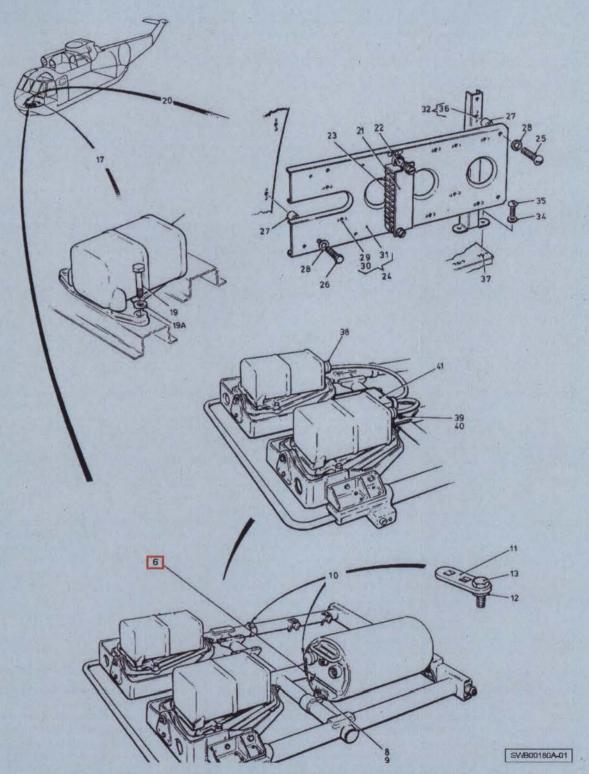


Appendix B-21 Aircraft Components that May Contain Asbestos - Fuel System, Lower Fuselage

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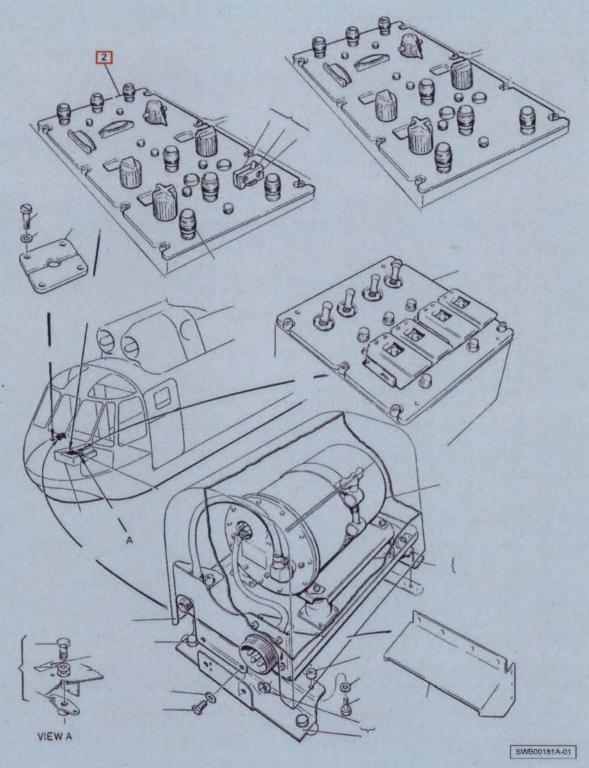


Appendix B-22 Aircraft Components that May Contain Asbestos - Fuel System, Lower Fuselage



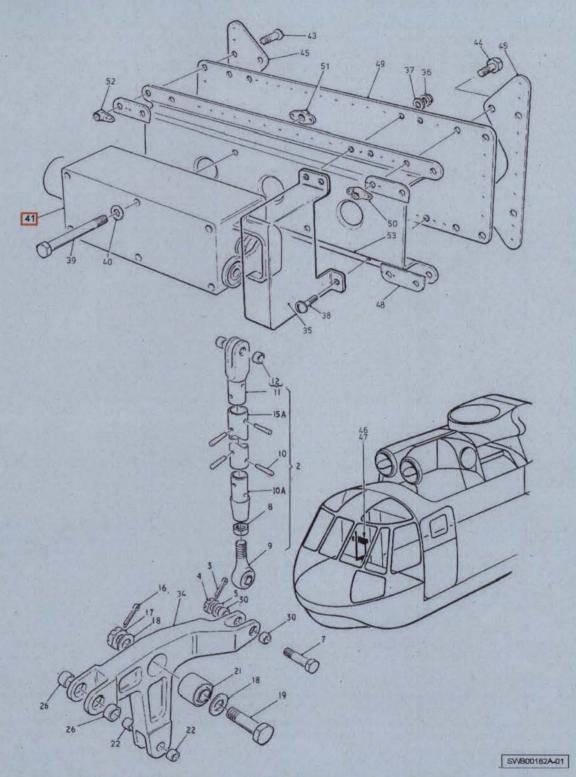
Appendix B-23 Aircraft Components that May Contain Asbestos - Autopilot

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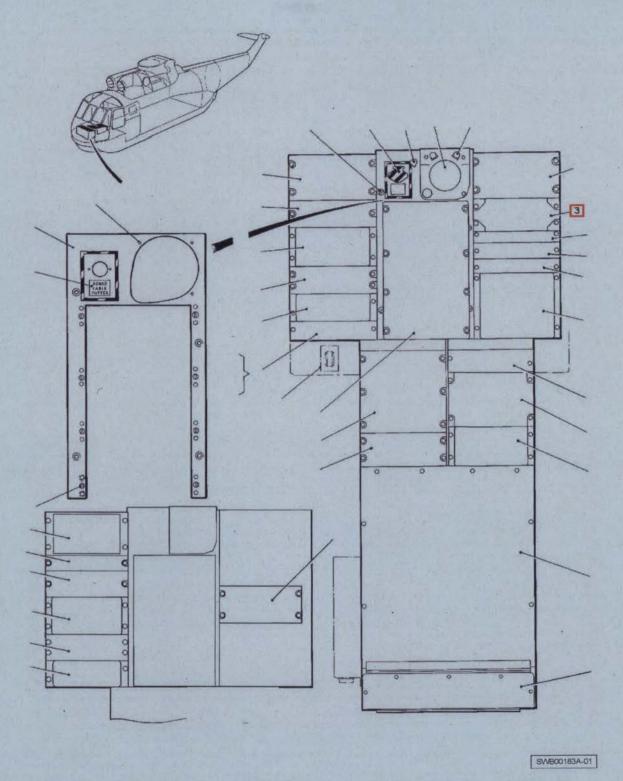
Appendix B-24 Aircraft Components that May Contain Asbestos - Autopilot

AIL 01/18

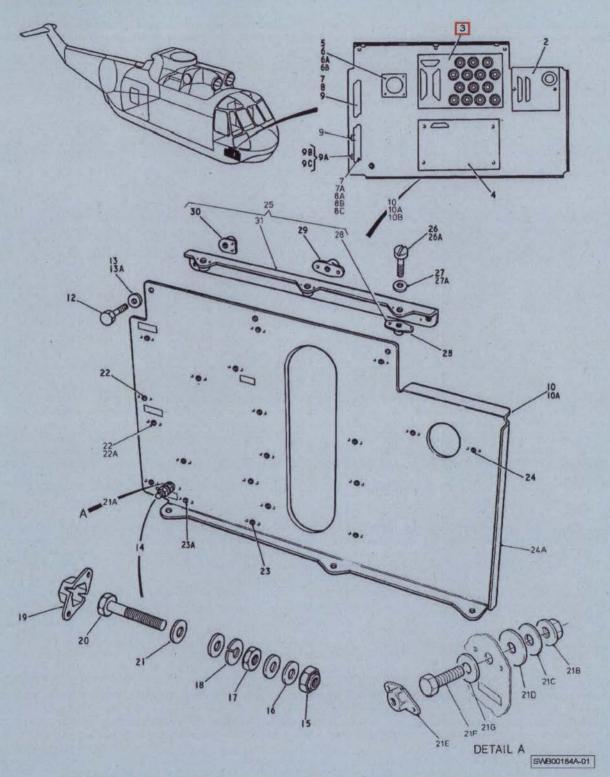


Appendix B-25 Aircraft Components that May Contain Asbestos - Collective Pitch Control

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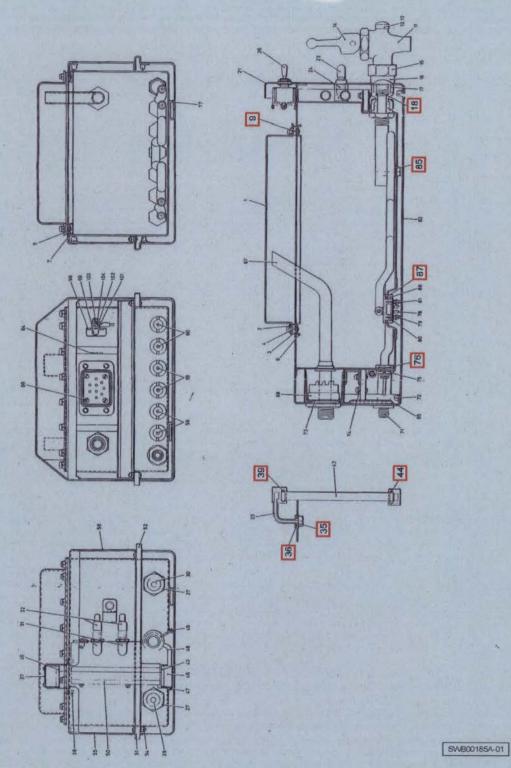


Appendix B-26 Aircraft Components that May Contain Asbestos - Interseat Console



Appendix B-27 Aircraft Components that May Contain Asbestos - Intercomm

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Appendix B-28 Aircraft Components that May Contain Asbestos - Water Boiler

#### ANNEX C

## SME ADVICE FROM INSTITUTE OF NAVAL MEDICINE

- (9) Refer to the Health and Safety Executive (HSE) items that follow when you do work on engines or equipment that may contain asbestos:
  - (a) Removal of Compressed Asbestos Fibre (CAF) gaskets and asbestos rope seals:

http://www.hse.gov.uk/pubns/guidance/a25.pdf

(b) For data on Personal Protective Equipment (PPE):

http://www.hse.gov.uk/pubns/guidance/em6.pdf

(c) For data on disposal of asbestos waste:

http://www.hse.gov.uk/pubns/guidance/em9.pdf

WARNING 1:

YOU MUST ALWAYS WEAR PPE WHEN YOU DO WORK ON ENGINES OR EQUIPMENT THAT MAY CONTAIN ASBESTOS MATERIAL. ASBESTOS IS A DANGEROUS MATERIAL AND CAN CAUSE DAMAGE TO YOUR HEALTH.

WARNING 2:

HEAT ILLNESS: IN HOT WEATHER, THE DONNING OF PPE SIGNIFICANTLY INCREASES THE THERMAL BURDEN ON THE OPERATOR. THE TASK RISK ASSESSMENT SHOULD CONSIDER THIS RISK AND ENSURE THAT ADEQUATE CONTROL (TIME ON TASK IN PPE, REST BREAKS IN A COOL AREA, HYDRATION, ETC.). JSP539 REFERS.

WARNING 3:

AREA CONTROL: YOU MUST KEEP A 5 METRE BOUNDARY FOR NEIGHBOURING WORKERS, UNLESS THEY DON FFP3 DISPOSABLE DUST MASK OR AN ORI-NASAL RESPIRATOR/FULL-FACE RESPIRATOR WITH ANY FILTER THAT HAS P3.

- (10) Wearing of PPE when working on engines or equipment that may contain asbestos must be as follows:
- Footwear not withstanding the HSE guidance for wellington boots, standard aircraft applicable footwear only is to be worn when accessing the aircraft
- FFP3 disposable respirator or Ori-nasal/full-face respirator with a P3 filter (user should be fitted and tested for the type/size used)
- Type 5/6 coverall
- Disposable nitrile gloves (double glove each hand) Appendix C-1 refers.
- (11) To prevent asbestos fibres from becoming airborne apply de-ionised water to the seal. Ensure a mist pattern only is used.

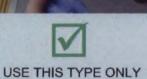
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- (12) Clean the surfaces where asbestos fibres might have been deposited as follows:
  - (a) Remove loose fibres with a type 'H' vacuum.
  - (b) Wipe surfaces with a damp lint free cloth. Fold contaminated side of cloth inside before placing in waste bag.
- (13) When work on engines or equipment that may contain asbestos materials is complete, remove PPE clothing as follows:
  - (a) Rollback the coverall from the hood down so that the coverall ends up inside out.
  - (b) Remove the outer pair of nitrile gloves.
  - (c) Remove the FFP3 disposable respirator or Ori-nasal/full-face respirator. For re-useable respirators, clean outer surfaces with a damp cloth before stowing. Wear FFP3 while doing this for belt and braces.
  - (d) Remove the inner pair of nitrile gloves.
- (14) On completion of work assume that everything is contaminated with asbestos fibres and dispose of as follows:
  - (a) Double bag.
  - (b) Apply a warning label to the bag to inform that the bag contains asbestos contaminated materials. Use formal Asbestos warning stickers if available.
  - (c) Use a local licensed waste contractor to dispose of the contaminated materials.

## OFFICIAL SENSITIVE

# AP101C-0400-2(NR)1A1









NSN 8415-99-789 6046 SIZE 6-61/2

6047 SIZE 7-71/2

6048 SIZE 8-81/2 WARNING: BOTH STYLE OF GLOVE HAS THE SAME NSN

6049 SIZE 9-91/2

SWB00172A-01

Appendix C-1 - Disposable Nitrile Gloves

**End of Data Module** 

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## **Product Related Asbestos Register**

See Time		ACM - Parts Identification					Identification of MOD Aircraft Affected					
South   APPRINCES    Casket   41,2 & 60,50   And tractors towor transge   1	Platform	Part Number	Description	IPC Ref	System	Mk3	VIK3A	Mk4	VIK5	Mk6	Mk7	
Sealing	Sea King	AM763-24	Gasket	41-2 4A-78A/80A	Fuel sustem lower fuslage	*	*	*	*	*	*	
See Filing					-		*	*	*		*	
Sea Ding						*	*	*	*	*	*	
Sea Fing						*	*	*	*	*	*	
Sea Firey MAY-2012 Cashed 13.2 2-0-25/2-051 over Septem ventring 7. 9 1 7 7 8 1					, ,				*		*	
Sea Ring					-						*	
Sea Ring						*	*	*	*	*	*	
Sea Cing	Sea King	AN763-24	Gasket	41-2 8-60/62	Fuel sustem lower fuslage	*	*	*	*	*	*	
See Ring   M09136-01.   Galect   S1-31-5-94.   Molinificate flow Act Once   1	Sea King	AN763-24	Gasket	97-1-9D 26-44B	Fuel sustem lower fuslage	*		*			*	
Sea Fire   Application   Sea Fire   Sea Fire   Application   Sea Fire						*		<u> </u>	*	*	*	
Society   Michael   Committee ACS   201   2   Automatic Auropation							<u> </u>	*	*	-	*	
Sea Fire   Month   M							Ť		Ť	<u> </u>	Ť	
See Fire   MOSISS   Motion   Macemond Took Alay   33-31-1-202   Carge sing (2000th)   2						*						
Sea Ring   M00383-0010-101   Waterproof floor Asy   30-31 1-200.   Favrishings and interior equipment   *   *   *   *   *   5-   5-   5-   5-						*	*	*				
See Ring   M00388-00010-101   Waterpoord floor   So-3 1-31   Furnishings and interfor equipment   *						*	*					
See King   119WCGB	Sea King	WD0383-00010-101		30-31 1-31		*	*					
Peer			Waterproof floor	30-31 1-32								
Part Number									Ш			
Sea Ring	Sea King	MS9134-01	Gasket	WAP108H-0108-136	Rescus Hoist	*	*	*	*	*	*	
Sea King   AD4202-14			IPC Components	with Hazard Code Hba	n							
See King   As434024-14   AD3400 VHF-UPF Controller   281-5 378-618   Radio, cockpit		Part Number	Description	IPC Ref	System	Mk3	Mk3A	Mk4	Mk5	Mk6	Mk7	
See Ning							igsqcut	igsqcurl	*	*	$ldsymbol{oxed}$	
See Ring							<u> </u>		*	*	<u> </u>	
See Ring   MS2/473T148855						1	<u> </u>		*	*		
See Nigs   1001-0-10-281   1011-0-10-10-10-10-10-10-10-10-10-10-10-							-	<del></del>	*	<del></del>	<u> </u>	
See King   TOLLOL   Toluene   99-3-5-1-120   Consumable list						*	*	*	*	*	*	
Sea King   OLD Part No 8-984-116-0   Description   Descr		•				*	*	*	*	*	*	
Part Number   Description   IPC Ref   System   System   System   Sea King   BAS180PSPO.5 GN271-1.00-B Filler   15-28-4-32A   Fuselage cockpit windows   * * * * * * * * * * * * * * * * * *		UA6047-5 GOLD Part No 8-994-116-0 DAP116N-0101-2B1 Leaflet							*			
Sea King   BAS180P90-5-CN271-1.0-0-B Filler   15-28 4-32A		IPC Co	mponents with Hazard Coo	de HAX (Was Asbestos, r	now asbestos free)							
Sea King   BAS180P90-5-CN271-1.0-0-B Filler   15-28 4-32A								_			<b>.</b>	
Sea King   W001-10-9821-101   Seal   40-1 2-10   Engine baffle plates   * * * * * * * * * * * * * * * * * *		Part Number	Description	IPC Ref	System	Mk3	Mk3	Mk4	Mk5	Mk6	Ž	
Sea King   WD01-10-92821-101   Seal   40-12-10   Engine baffle plates   * * * * * * * * * * * * * * * * * *	Sea King		•		· · · · · · · · · · · · · · · · · · ·	* WK3	* Mk3	* Mk4	* MK5	* Mk6	* Mk7	
Sea King WD01-74-90003-101 Seal 40-1 2-12 Engine baffle plates		BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AFZ6S	Filler	15-28 4-32A	Fuselage cockpit windows Consumable list	*	*	*	*	*	*	
Sea Ning   WD01-10-92823-101   Seal   40-1 2-14   Engine baffle plates	Sea King Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AFZ6S WD01-10-90679-101	Filler Seal Gasket	15-28 4-32A 99-3-2 1-30B 15-8 1A-13	Fuselage cockpit windows  Consumable list  Engine compartment firewall	* *	* *	*	*	*	* *	
Sea King   WD01-10-92824-101   Seal   40-1 2-16   Engine baffle plates   *	Sea King Sea King Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AFZ6S WD01-10-90679-101 WD01-10-92821-101	Filler Seal Gasket Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10	Fuselage cockpit windows  Consumable list  Engine compartment firewall  Engine baffle plates	* * * *	* * * *	* * *	*	* * * *	* * * *	
Sea King   WD01-10-92892-101   Seal   40-1 2-22   Engine baffle plates   * * * * * * * * * * * * * * * * * *	Sea King Sea King Sea King Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AFZ6S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101	Filler Seal Gasket Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12	Fuselage cockpit windows  Consumable list  Engine compartment firewall  Engine baffle plates  Engine baffle plates	* * * *	* * * *	* * *	*	* * * *	* *	
Sea King   WD01-10-92893-101   Seal   40-1-2-24   Engine baffle plates   * * * * * * * * * * * * * * * * * *	Sea King Sea King Sea King Sea King Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101	Filler Seal Gasket Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Engine baffle plates Engine baffle plates	* * * * * *	* * * * * * *	* * *	*	* * * * * *	* * * *	
Sea King   WD01-74-9003-101   Cuff Sleeve   24-1 1-6   Sonar Heating   Sonar Heating   Sonar Heating   WD01-74-9003-103   Cuff Sleeve   24-1 1-23/30   Sonar and Cabin Heating ventilation   Sonar and Cabin Heating ventila	Sea King Sea King Sea King Sea King Sea King Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101	Filler Seal Gasket Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates	* * * * * *	* * * * * * *	* * *	*	* * * * * *	* * * *	
Sea King   WD01-74-90003-103   Cuff Sleeve   24-1 1-23/30   Sonar and Cabin Heating ventilation	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates	* * * * * * * * *	* * * * * * *	* * *	* * * * * *	* * * * * * * *	* * * *	
Sea King         WD01-74-90003-107         Cuff Sleeve         24-1 2-13         Sonar and Cabin Heating ventilation         * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101 WD01-10-92893-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates	* * * * * * * * *	* * * * * * *	* * *	* * * * * * *	* * * * * * * * * *	* * * *	
Sea King         WD01-74-90119-101         Gasket         24-1 1-17/42         Sonar and Cabin Heating ventilation         * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AFZ6S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Ceal Cuff Sleeve	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating	* * * * * * * * * * * * * * * * * * * *	* * * * * * *	* * *	* * * * * * *	* * * * * * * * * *	* * * *	
Sea King         WD01-74-90123-101         Gasket         24-1 1-50         Sonar and Cabin Heating ventilation         * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101 WD01-74-90003-103	Filler Seal Gasket Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30	Fuselage cockpit windows  Consumable list  Engine compartment firewall  Engine baffle plates  Sonar Heating  Sonar Hading	* * * * * * * * * * * * * * * * * * * *	* * * * * * *	* * *	* * * * * * *	* * * * * * * * * *	* * * *	
Sea King         WD01-74-90180-043         Pipe Assy         24-1 2-1         Sonar and Cabin Heating ventilation         * *         * *           Sea King         WD0474-00005-043         Muff Assy         23-1 2-13         Cabin Heating ventilation         * * *         * * *           Sea King         WD0481-22006-143         Panel Overhead console         55-2-1 45-19M         Electrical supply and distribution         * * * *         * * * *           Sea King         WD4174-00044-043         Muff Assy         23-1 6-3         Cabin Heating ventilation         * * * * *         * * * *           Sea King         WD4174-00074-197         Diaphragm         23-1 5-9         Cabin Heating ventilation         * * * * * *         * * * *           Sea King         WD4174-00092-043         Muff Assy         23-1 6-5         Cabin Heating ventilation         * * * * * * *         * * * * *           Sea King         WD4174-00099-043         Muff Assy         23-1 2-10         Cabin Heating ventilation         * * * * * * *         * * * * *           Sea King         WD4174-00099-043         Muff Assy         23-1 2-14         Cabin Heating ventilation         * * * * * * *         * * * * *           Sea King         WD0478-00099-043         Muff Assy         23-1 2-10         Cabin Heating ventilation         * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101 WD01-74-90003-105 WD01-74-90003-107	Filler Seal Gasket Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13	Fuselage cockpit windows  Consumable list  Engine compartment firewall  Engine baffle plates  Sonar Heating  Sonar Heating  Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * *	* * *	* * * * * * *	* * * * * * * * *	* * * *	
Sea King         WD0474-00005-043         Muff Assy         23-1 2-13         Cabin Heating ventilation         * <td>Sea King Sea King</td> <td>BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90003-107</td> <td>Filler Seal Gasket Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket</td> <td>15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-17/42</td> <td>Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation</td> <td>*</td> <td>* * * * * * *</td> <td>* * *</td> <td>* * * * * * * * *</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * *</td>	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90003-107	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-17/42	Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation	*	* * * * * * *	* * *	* * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	
Sea King         WD0481-22006-143         Panel Overhead console         55-2-1 45-19M         Electrical supply and distribution         *         <	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90119-101 WD01-74-90119-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-17/42 24-1 1-50	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King   W04174-00044-043   Muff Assy   23-1 6-3   Cabin Heating ventilation   * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101 WD01-74-9003-105 WD01-74-9001	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket Pipe Assy	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         WD4174-00074-197         Diaphragm         23-1 5-9         Cabin Heating ventilation         * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90103-107 WD01-74-90103-107 WD01-74-90003-107 WD01-74-90003-107 WD01-74-90003-107 WD01-74-90003-107 WD01-74-90119-101 WD01-74-90123-101 WD01-74-90180-043 WD01-74-90180-043	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket Pipe Assy	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1	Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating ventilation  Sonar and Cabin Heating ventilation  Cobin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         WD4174-00092-043         Muff Assy         23-1 6-5         Cabin Heating ventilation         * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90119-101 WD01-74-90119-101 WD01-74-90119-101 WD01-74-90180-043 WD0474-00005-043 WD0481-22006-143	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket Pipe Assy Panel Overhead console	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 24-1 1-50	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Cobin Heating ventilation  Electrical supply and distribution	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         WD4174-00098-043         Muff Assy         23-1 2-10         Cabin Heating ventilation         * <td>Sea King Sea King</td> <td>BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-9003-101 WD01-74-90003-105 WD01-74-90003-105 WD01-74-90119-101 WD01-74-90123-101 WD01-74-90123-101</td> <td>Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal</td> <td>15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-1 23-1 2-1 25-2-1 45-19M 23-1 6-3</td> <td>Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Colim Heating ventilation  Electrical supply and distribution  Cabin Heating ventilation</td> <td>*</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * *</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * * * *</td> <td>* * * *</td>	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-9003-101 WD01-74-90003-105 WD01-74-90003-105 WD01-74-90119-101 WD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-1 23-1 2-1 25-2-1 45-19M 23-1 6-3	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Colim Heating ventilation  Electrical supply and distribution  Cabin Heating ventilation	*	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         WD4174-00099-043         Muff Assy         23-1 2-14         Cabin Heating ventilation         * <td>Sea King Sea King</td> <td>BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-9013-101 WD01-74-9003-107 WD01-74-9003-107 WD01-74-9003-107 WD01-74-9003-107 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101</td> <td>Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket Pipe Assy Muff Assy Panel Overhead console Muff Assy Diaphragm</td> <td>15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-13 55-2-1 45-19M 23-1 6-3 23-1 5-9</td> <td>Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Energy entilation  Cabin Heating ventilation  Electrical supply and distribution  Cabin Heating ventilation  Cabin Heating ventilation</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>* * * * * * * * * * *</td> <td>* * * *</td>	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-9013-101 WD01-74-9003-107 WD01-74-9003-107 WD01-74-9003-107 WD01-74-9003-107 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket Gasket Pipe Assy Muff Assy Panel Overhead console Muff Assy Diaphragm	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-13 55-2-1 45-19M 23-1 6-3 23-1 5-9	Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Energy entilation  Cabin Heating ventilation  Electrical supply and distribution  Cabin Heating ventilation  Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         576801         Gasket         24-1 1-7/31         Sonar and Cabin Heating ventilatio         * * * * * *           Sea King         85106RC8-3AS         Connector         98-55 3N-63         Electrical Cable Breakdown         * * * * * *           Sea King         WD01-82-12175         CONECTOR         20-5-11-106         HF Cooling         * * * * * * * * *           Sea King         WD01-82-12205-4         HOSE, EXHAUST         20-5-11-105         HF Cooling         * * * * * * * * *           Sea King         S6135-20702-2         Gimbal Ring pads         51-3-4E 32-5/32         Fingine compartment transmission         * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101 WD01-10-92893-101 WD01-74-9003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-9013-101 WD01-74-9003-107 WD01-74-9003-107 WD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket  Pipe Assy Muff Assy Panel Overhead console Muff Assy Diaphragm Muff Assy	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-13 55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 6-5	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Cobin Heating ventilation Electrical supply and distribution Cabin Heating ventilation Cabin Heating ventilation Cabin Heating ventilation Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King         WD01-82-12175         CONECTOR         20-5-11-106         HF Cooling         *<	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-107 WD01-74-90180-043 WD01-74-90180-043 WD01-74-90180-043 WD01-74-9004-043 WD01-74-9004-043 WD01-74-9004-043 WD01-74-00092-043 WD0174-00098-043	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30  24-1 2-13  24-1 2-13  24-1 1-50  24-1 2-1  23-1 2-13  55-2-1 45-19M 23-1 6-5 23-1 2-10	Fuselage cockpit windows  Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Cabin Heating ventilation  Electrical supply and distribution Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * *	* * * *	
Sea King   WD01-82-12173   CONCCTOK   20-5-11-100   The Cooling   Sea King   WD01-82-12205-4   HOSE, EXHAUST   20-5-11-105   HF Cooling   Sea King   S6135-20702-2   Gimbal Ring pads   51-3-4E 32-5/32   Engine compartment transmission   Sea King   S6135-20702-2   Gimbal Ring pads   S1-3-4E 32-5/32   Engine compartment transmission   S1-3-4E 32-5/32	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92824-101 WD01-10-92892-101 WD01-10-92893-101 WD01-10-92893-101 WD01-74-90003-103 WD01-74-90003-105 WD01-74-90003-105 WD01-74-90119-101 WD01-74-90119-101 WD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30  24-1 2-29  24-1 2-13  24-1 1-50  24-1 2-1  23-1 2-13  55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 2-10 23-1 2-10 23-1 2-10	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar Heating Sonar and Cabin Heating ventilation  Cabin Heating ventilation  Electrical supply and distribution Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	
HF Cooling	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92822-101 WD01-10-92892-101 WD01-10-92892-101 WD01-74-9003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-90123-101 WD01-74-9003-107 WD01-74-9003-107 WD01-74-9003-107 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-13 55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 2-10 23-1 2-14 24-1 1-7/31 98-55 3N-63	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	
Engine compartment transmission * * * * * * * * * * * * * * * * * * *	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92892-101 WD01-10-92893-101 WD01-74-9003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-90123-101 WD01-74-90180-043 WD0474-00095-043 WD0474-00095-043 WD0474-00098-043 WD0474-00099-043 S56801 B5106RC8-3AS WD01-82-12175	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Cuff Sleeve Gasket  Pipe Assy Muff Assy Diaphragm Muff Assy Casket Connector CONECTOR	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30 24-1 2-29 24-1 2-13 24-1 1-50 24-1 2-1 23-1 2-13 55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 6-5 23-1 2-10 23-1 2-14 24-1 1-7/31 98-55 3N-63 20-5-1 1-106	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	
	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92892-101 WD01-10-92892-101 WD01-74-9003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30  24-1 2-29  24-1 2-13  24-1 1-50  24-1 2-1  23-1 2-13  55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 6-5 23-1 2-10 23-1 2-14 24-1 1-7/31 98-55 3N-63 20-5-1 1-106 20-5-1 1-106	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Electrical supply and distribution Cabin Heating ventilation Electrical Cable Breakdown HF Cooling	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	
RAPID WATER BOILERS HE62008 & HE62168 (Mod 559 overheat protection)	Sea King	BAS180PSP0.5-GN271-1.00-B BAS180PWMB25-50AF26S WD01-10-90679-101 WD01-10-92821-101 WD01-10-92822-101 WD01-10-92823-101 WD01-10-92823-101 WD01-10-92892-101 WD01-10-92892-101 WD01-74-9003-101 WD01-74-9003-105 WD01-74-9003-105 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101 WD01-74-90123-101 SD01-74-90123-101	Filler Seal Gasket Seal Seal Seal Seal Seal Seal Seal Seal	15-28 4-32A 99-3-2 1-30B 15-8 1A-13 40-1 2-10 40-1 2-12 40-1 2-14 40-1 2-16 40-1 2-22 40-1 2-24 24-1 1-6 24-1 1-23/30  24-1 2-29  24-1 2-13  24-1 1-50  24-1 2-1  23-1 2-13  55-2-1 45-19M 23-1 6-3 23-1 5-9 23-1 6-5 23-1 2-10 23-1 2-14 24-1 1-7/31 98-55 3N-63 20-5-1 1-106 20-5-1 1-106	Fuselage cockpit windows Consumable list Engine compartment firewall Engine baffle plates Sonar Heating Sonar and Cabin Heating ventilation  Conar and Cabin Heating ventilation  Cabin Heating ventilation  Electrical supply and distribution Cabin Heating ventilation  Sonar and Cabin Heating ventilation  Electrical Cable Breakdown  HF Cooling	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	* * * *	

### **Product Related Asbestos Register**

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	ACM - Parts Identification				Id	Identification of MOD Aircraft Affected					
Platform	Part Number	Description	IPC Ref	System	9	MK3A	Mk4	Mk6	Mk7		
			WAP113F-W0819-								
			13A6								
Sea King	HE5084M11	Gasket	pg 1006 Fig 1 Item 10	Water Boiler	HE6216	8 HE621	68				
Sea King	HE50844Z46	Gasket	pg 1006 Fig 1 Item 180	Water Boiler	HE6216	8 HE621	68				
Sea King	HE50844Z108	Washer Flat	pg 1008 Fig 1 Item 550	Water Boiler	HE6216	8 HE621	68				
Sea King	HE50844Z40	Washer Flat	pg 1013 Fig 3 Item 50	Water Boiler	HE6216	8 HE621	68		-		
Sea King	HE50844Z38	Packing Preformed	pg 1013 Fig 3 Item 90 x2	Water Boiler	HE6216	8 HE621	68				
Sea King	HE50844Z96	Gasket	pg 1010 Fig 2 Item 170	Water Boiler	HE6216	8 HE621	68	$\Box$			
Sea King	HE50844Z84	Washer Flat	pg 1013 Fig 4 Item 30/120	Water Boiler	HE6216	8 HE621	68				
Sea King	HE50844Z51	Gasket	pg 1013 Fig 4 Item 90	Water Boiler	HE6216	8 HE621	68				
Sea King	HF50844Z33	Washer	ng 1013 Fig 4 Item 140	Water Boiler	HF6216	8 HF621	68	$\top$			

WAP113F-W0819-13A6 only covers water boiler HE62008, however AP113F-0819-3 Ch 2-1 for HE62008 is replicated for the part numbers above in Ch 2-2 for HE62168.

Asbestos data only contained in MoD AP and not in WAP