



Ministry
of Defence



TORPEDOES REPAIR AND MAINTENANCE
TTHC/0017

ANNEX L
PROPRIETARY ITEMS

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AMENDMENT HISTORY

Issue	Date	Originator	Comments
1	October 2019	DE&S – TTH PT	Final Version as at Contract Award

1.1 Stingray Proprietary Items

Table 1: Sting Ray Proprietary Items List

No	Supplier	Item	Proprietary Elements
1	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Process specification for production of High Explosive designated as KS32/33. This process specification has been used on various programmes including ESSM, ALARM, ASRAAM and KEPD.	DE 4324739 C1 and 20022343 (registered pattern).
2	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Process specification for the manufacture of blister free plastic bonded explosive designated as KS32/33. This process specification has been used on various programmes including ESSM, ALARM, ASRAAM and KEPD.	FA W 001778 for KS 32 FA TK35-001625.00 for KS 33
3	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Copper / Teflon sandwich attenuator used to attenuate detonation shock at waveshaper / ignition plate interface.	DE 41 19 586 C2 F 42 B 1/024
4	Text has been redacted under the exemptions set out by the Freedom of Information Act.	TVG5B - Triggered vacuum gap (high Voltage switch used to discharge the firing circuit through the EFI)	M209504A Issue 2
5	Text has been redacted under the exemptions set out by the Freedom of Information Act.	EFI - Exploding foil initiator including HNS pellet	H208556A iss 1 - HNS Pellet M207369A iss 5 - EFI PCB HP207724A iss 2 - Pellet Holder H207722A iss 5 - Pressure Pad

1.2 Spearfish Proprietary Items

Table 2: Spearfish Proprietary Items List

No	Supplier	Item	Proprietary Elements
1	Text has been redacted under the exemptions set out by the Freedom of Information Act.	EHS	Low Pressure Pack, MRI 7250
			High Pressure Pack, MRI 7200
			Ring Main, MRI 7300B
			Primary Fin, MRI 7150
			Servo Valve
			Potentiometer
2	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Autopilot	Autopilot, MRI 380B
			Autopilot, MRI 33770
			Autopilot, MRI 33800
3	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Powerplant	Powerplant, MRI 6200G
4	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Manufacturing processes and materials for Fuel Bags	HAP MRI 5100E
			Otto Fwd MRI 5729A
			Otto Aft MRI 5200D
5	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Valves and QD's	Downstream Valve, MRI 6188
			Socket HAP QD, MRI 6177
			Socket Otto QD, MRI 6185
6	Text has been redacted under the exemptions set out by the Freedom of Information Act.	COHV & Protractors	COHV, MRI 5085A
			Protractor, 3201-29150-LP-X-01
7	Text has been redacted under the exemptions set out	Hoses	Hose Assembly, Seawater, 3201-26115-40-1-01
			Hose Assembly, Otto Inert, 3201-60600-40-1-01

No	Supplier	Item	Proprietary Elements
	by the Freedom of Information Act.		Fuel Purge Hose, 3201-60601-40-1-01
			Hose Assembly, HAP Inert, 3201-60602-40-1-01
			Hose Assembly, Inert, 3201-60603-40-1-01
			Hose Assembly, Otto Fwd, 3201-60604-40-1-01
8	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Depth Sensors	Depth Sensor Deep, 3201-29470-40-4-01
			Depth Sensor Shallow, 3201-29480-40-4-01
			Depth Sensor Shallow, 3201-33380-40-4-01
			Depth Sensor Shallow, 3201-33381-40-4-01
9	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Seawater Seals	Sea Water Seal, MRI 7640
10	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Gas Bottles (Fuel and Tail)	Gas Bottle, MRI 7241C
			Gas Bottle, Fuel Section, MRI 5021A
11	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Transducers 'A' Links and Noise Techniques	Transducer MD-B28715
			Transducer Type 120, Electron
			Acoustic Beeper 3201-19899-40-4
			Transducer Type 128,
			Tracking 3201-19335-40-4
			Transducer Homing, (Nose Type)
			UBK 100055
			'A' Links
12a	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Highly Explosive KS57 mixing and casting process	Noise Reduction Techniques
			FA-SSM-W118970-000

No	Supplier	Item	Proprietary Elements
12b	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Re-Qualification of KS57	REP-SFU-118670-07 Revision A
13	Text has been redacted under the exemptions set out by the Freedom of Information Act.	High Voltage Switch	TVG5B- Triggered Vacuum Gap-
			M209504A Issue 2
14	Text has been redacted under the exemptions set out by the Freedom of Information Act.	Exploding Foil Initiator –EFI (Including HNS Pellet)	EFI H208556A issue 1
			HNS Pellet M207369A
			Pellet holder HP207724A
			Pressure pad H207722A