

SEMIAT I

USS DEYO (DD 989)

INTERNAL VIDEO VENTILATION ASSESSMENT



**PERFORMED BY
SUPERVISOR OF SHIPBUILDING CONVERSION AND
REPAIR**

PORTSMOUTH, VIRGINIA

SUPSHIP: R. MARTIN & QED: B. CAREW, B. PARSONS

5 THRU 15 SEPTEMBER 2000

SUMMARY

A ventilation duct internal inspection was accomplished IAW the requirements of References (a) and (b), on board the USS DEYO (DD 989) from 5 to 15 September 2000, during a SEMAT I visit at Norfolk Naval Station, Norfolk, VA . The duct internal inspection determines the structural integrity (rust, wear, damage) and cleanliness (grease, dust, foreign matter) of the recirculation, exhaust and supply vent systems. Form 4790-2Ks were utilized to document discrepancies and were furnished for inclusion into the USS DEYO's Current Ship's Maintenance Project (CSMP). A proposed SUPSHIP, Portsmouth's Maintenance Repair Card (MRC), 5111-1 was used for the inspection criteria. The following pages have descriptions and pictures of the discrepancies discovered.

REFERENCES

- a) COMNAVSURFLANT Continuous Maintenance Implementation /Improvement Policy Letter 09- Ventilation System Cleaning Policy Letter Ser N432A/1014 D dated 03 AUG 1999.
- b) COMNAVSURFLANT Message R091100Z Aug 1999 Shipboard Ventilation Cleaning Policy.

SUMMARY OF RECOMMENDATIONS

The Following Systems are Recommended for Cleaning

SYSTEM	MAF	COMPARTMENT	REPORT PG NO
01-148-1 E	EA04 P010	CREW WR (2-138-0-L)	1
01-192-1 & 01-192-3 R (RETURN SIDE)	EA04 P033	CIC SONAR CONTROL (02-139-2-C)	2
01-245-1 E	EA04 P007	CPO WR (1-240-1-L)	3
01-248-1 E	EA04 P008	CPO SH (1-235-3-L)	4
01-270-1 R (SUPPLY SIDE)	EA04 P003	WR MESS (01-270-0-L)	5
01-280-1 E	EA04 P006	SCULLERY (1-284-1-Q)	6
01-393-2 E	EA04 P005	CREW BERTHING (1-356-0-L)	7
02-230-2 S	EA04 P031	AMR 1 (5-220-0-E)	8
02-298-1 E	EA04 P004	OFFICER WR, WC (01-322-0-L)	9
03-194-1 E	EA04 P030	PASSAGE (03-174-0-L)	10
1-317-1 R (SUPPLY SIDE)	EA04 P032	CREWS MESSROOM (1-300-0-L)	11
1-341-2 R (SUPPLY SIDE)	EA04 P034	CREWS MESSROOM (1-300-0-L)	12
3-148-1 R (SUPPLY SIDE)	EA04 P002	CREW BERTHING (3-146-0-L)	13
3-149-2 R (SUPPLY SIDE)	EA04 P001	CREW BERTHING (3-146-0-L)	14

SUMMARY OF RECOMMENDATIONS

The Following Systems are not Recommended for Cleaning

SYSTEM	COMPARTMENT
01-168-1 S	CREWS BERTHING (2-149-0-L)
01-172-1 E	COMBAT SYSTEM DEPT. OFFICE (1-162-1-Q)
01-192-1 & 01-192-3 R (SUPPLY SIDE)	CIC (02-139-0-C)
01-197-1 & 01-200-1 S	MAIN ENGINE RM 1 (5-174-0-E)
01-242-1 E	CPO WASHROOM(1-240-1-L)
01-242-2 S	ISSUE ROOM (1-248-2-Q)
01-245-2 S	ISSUE ROOM (1-248-2-Q)
01-297-1 S	WR GALLEY (01-260-2-L)
01-297-3 S	AMR 2 (5-260-01-E)
01-298-2 E	AMR 2 (5-260-01-E)
01-299-1 S	PASSAGE (1-260-01-L)
01-316-1 R (SUPPLY SIDE)	WR LOUNGE (01-270-0-L)
01-384-2 E	PASSAGE (1-260-01-L)
01-388-1 S	SICKBAY (1-398-0-L)
01-394-1 E	LAUNDRY (2-382-0-Q)
01-395-2 E	TORPEDO RM 2 (1-390-2-M)
01-396-1 S	CREWS BERTHING (2-346-02-L)
02-234-2 S	PASSAGE (03-174-0-L)
03-302-2 S	MAIN ENGINE RM 2 (5-300-0-E)
1-115-1 E	PASSAGE (1-94-01-L)
1-231-2 R (SUPPLY SIDE)	CPO BERTHING (1-224-0-L)
1-359-1 R (SUPPLY SIDE)	CREWS BERTHING (1-356-0-L)
1-359-2 R (SUPPLY SIDE)	CREWS BERTHING (1-356-0-L)
1-386-1 S	SS/EMER GEN RM 3 (3-426-1-E)
1-459-2 S	STORE HLDG RM (2-464-01-A)
2-150-1 R (SUPPLY SIDE)	CREWS BERTHING (2-149-0-L)
2-150-2 R (SUPPLY SIDE)	CREWS BERTHING (2-149-0-L)
2-467-1 E	STORE HLDG RM (2-464-01-A)
2-472-1 & 2-472-3 R (SUPPLY SIDE)	FAN ROOM (2-464-1-Q)
2-507-2 S	TACTAS STWG & HDLG RM (2-506-0-Q)
3-394-1 R (SUPPLY SIDE)	CREWS BERTHING (3-394-1-L)
OTHER ACTION/RECOMMENDATIONS	
2-467-1 E	Has a SPLIT SEAM in FAN ROOM (2-464-1-Q)
	EA04 P028
2-467-1 E	HAS PAPER/BAG BLOCKAGE in STORE HLDG RM (2-464-01-A)
	EA04 P029

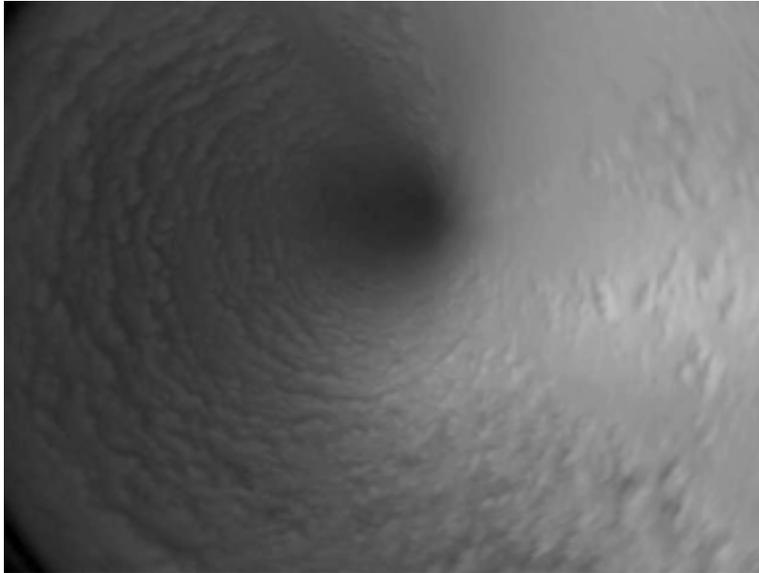
VENT SYSTEM 01-148-1, EXHAUST

T/A 1
EA04 P010
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 01-148-1 IN COMPT.
CREW WR (2-138-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

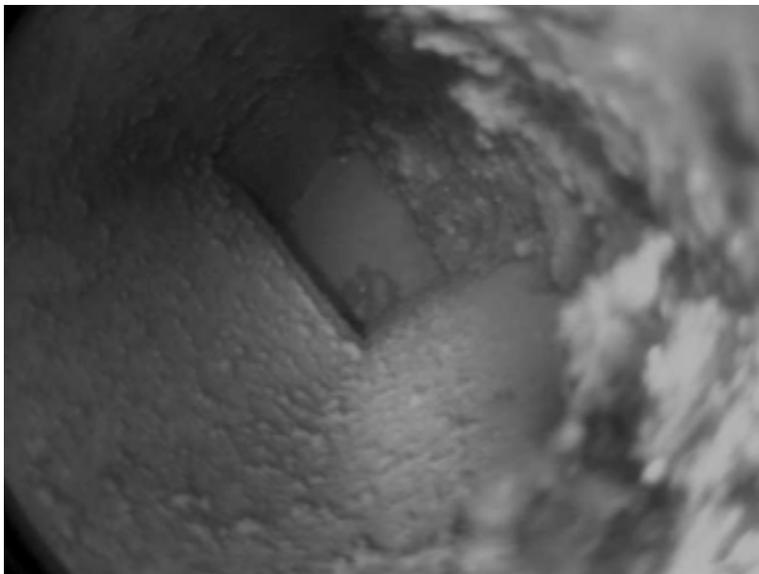
REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 01-148-1
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREW WR (2-138-0-L)



3 FT Inside Duct Looking Starboard (Foreign material)

CREW WR (2-138-0-L)



7 FT Inside Duct Looking Starboard on Port Side (Foreign material)

VENT SYSTEM

01-192-1 & 01-192-3, RECIRC RETURN

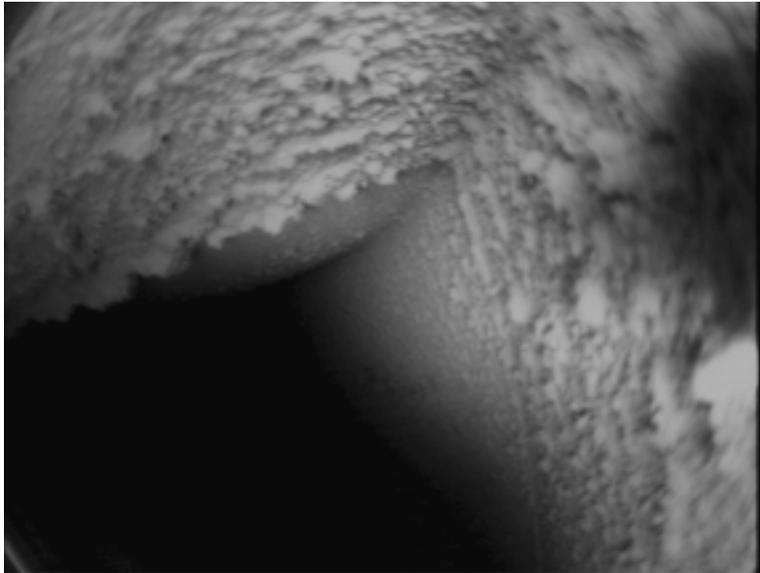
T/A 1
EA04 P033

STATUS 3
PRI 3

As per Internal Video Inspection: RECIRC RETURN DUCT R SYSTEM R 01-192-1& R 01-192-3 IN COMPT. CIC Sonar Control (02-139-2-C) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

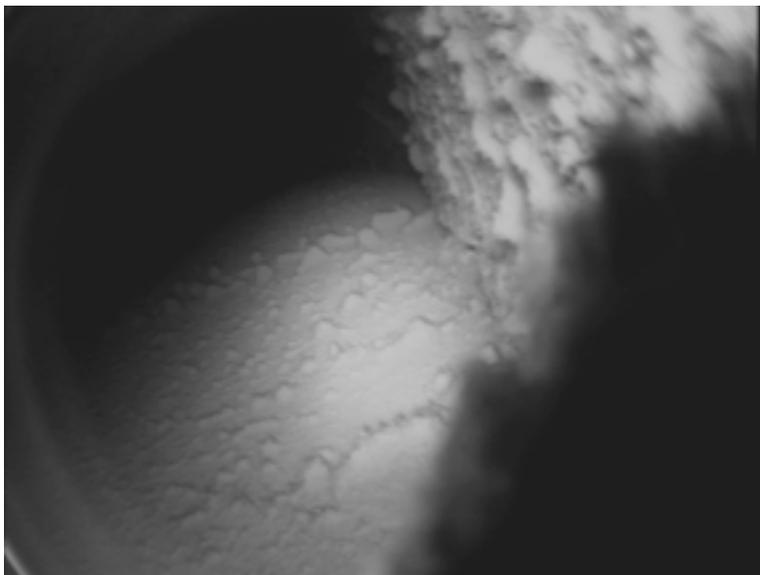
REPAIR ACTIVITY OPEN AND CLEAN RECIRC RETURN DUCT R SYSTEM R 01-192-1& R 01-192-3 IN ITS ENTIRETY USING SUITABLE METHOD AND RESTORE IT TO ITS NORMAL OPERATION.

CIC SONAR CONTROL (02-139-2-C)



4 FT Inside Duct (Foreign material)

CIC SONAR CONTROL (02-139-2-C)



7 FT Inside Duct (Foreign material)

VENT SYSTEM 01-245-1, EXHAUST

T/A 1
EA04 P007
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 01-245-1 IN COMPT.
CPO WR (1-240-1-L) IS DIRTY WITH LINT AND DUST AND REQUIRES CLEANING.

REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 01-245-1
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CPO WR (1-240-1-L)



5 FT Inside Duct Looking Port (Foreign material)

CPO WR (1-240-1-L)



8 FT Inside Duct Looking Starboard (Foreign material)

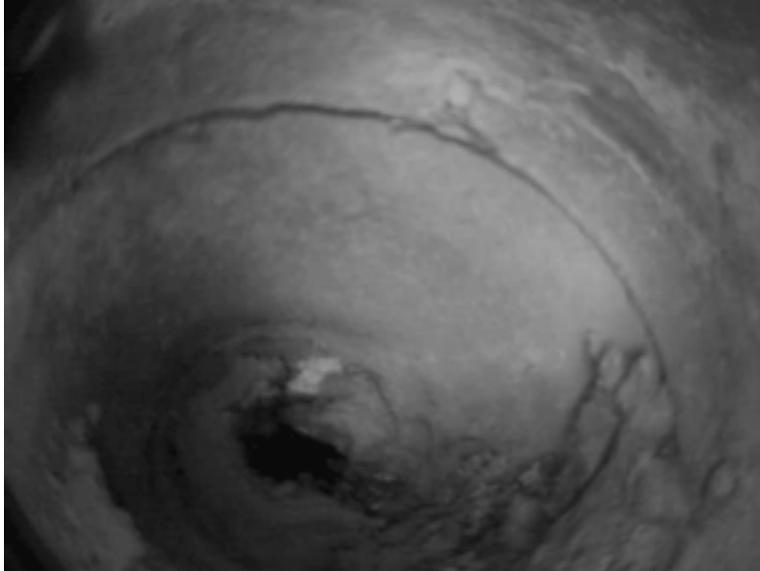
VENT SYSTEM 01-248-1, EXHAUST

T/A 1
EA04 P008
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 01-248-1 IN COMPT.
CPO SH (1-235-3-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

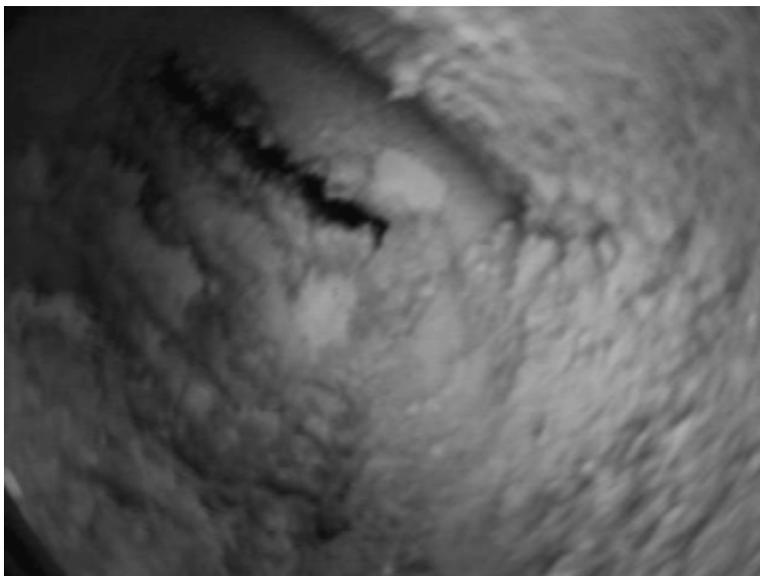
REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 01-248-1
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CPO SH (1-235-3-L)



1 FT Inside Duct (Foreign material)

CPO WR (1-240-1-L)



1 FT Inside Duct (Foreign material)

VENT SYSTEM

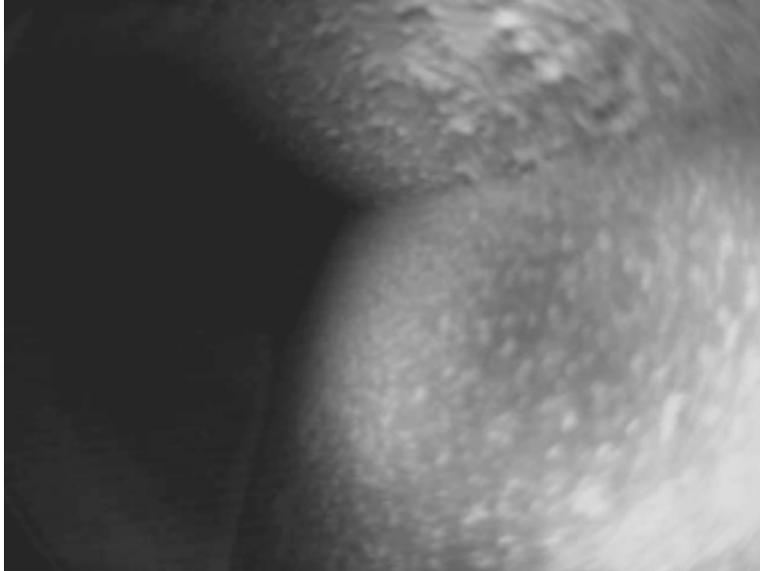
01-270-1, RECIRC SUPPLY

T/A 1
EA04 P003
STATUS 3
PRI 3

As per Internal Video Inspection: RECIRC SUPPLY DUCT, SYSTEM R 01-270-1 IN COMPT.
WR MESS (01-270-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

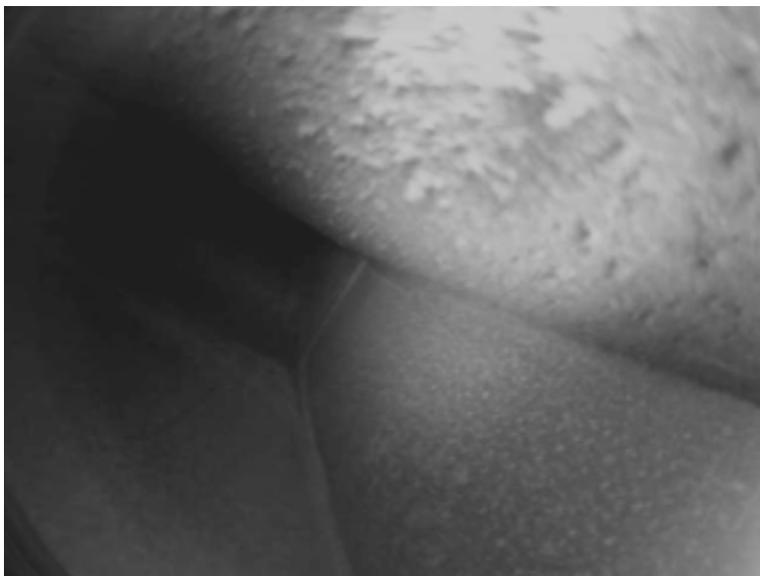
REPAIR ACTIVITY OPEN AND CLEAN RECIRC SUPPLY DUCT, SYSTEM R 01-270-1
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

WR MESS (01-270-0-L)



3 FT Inside Duct (Foreign material)

WR MESS (01-270-0-L)



5 FT Inside Duct (Foreign material)

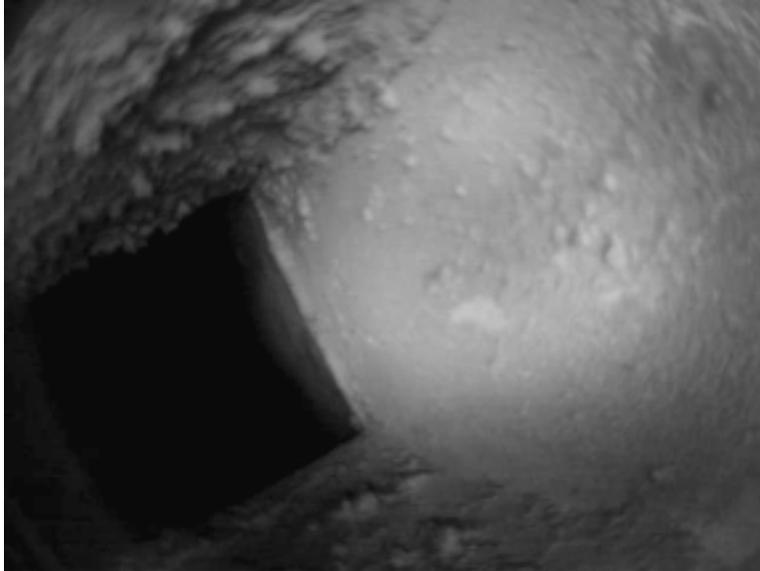
VENT SYSTEM 01-280-1, EXHAUST

T/A 1
EA04 P006
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 01-280-1 IN COMPT. SCULLERY (1-284-1-Q) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 01-280-1 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

SCULLERY (1-284-1-Q)



2 FT Inside Duct Over Dishwasher (Foreign material)

SCULLERY (1-284-1-Q)



6 FT Inside Duct Over Dishwasher (Foreign material)

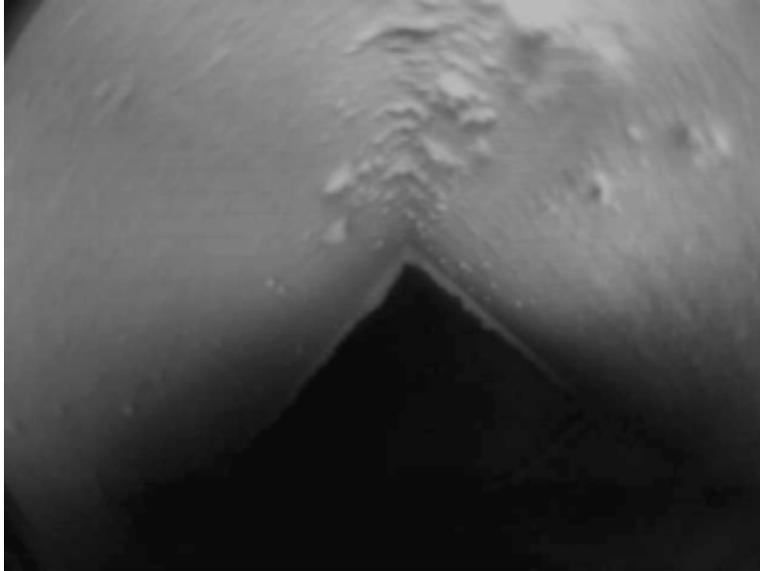
VENT SYSTEM 01-393-2, EXHAUST

T/A 1
EA04 P005
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 01-393-2 IN COMPT.
CREW BERTHING (1-356-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

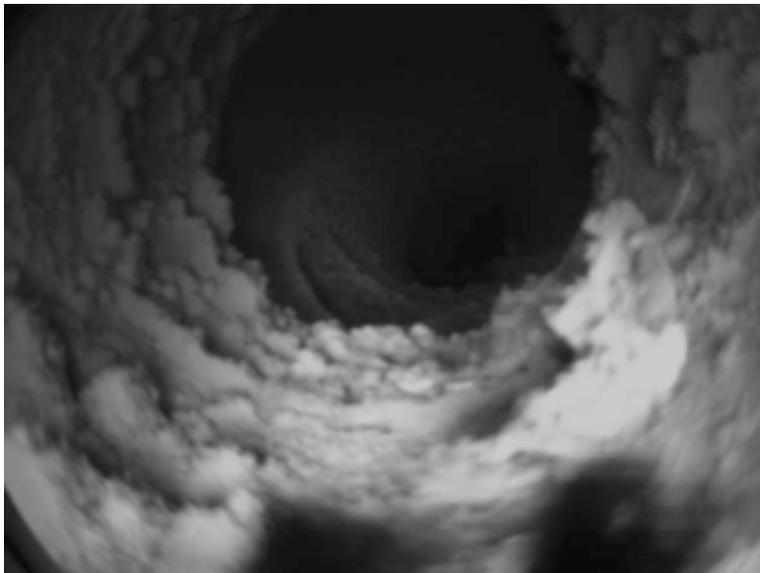
REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 01-393-2
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREW BERTHING (1-356-0-L)



10 FT Inside Duct Looking Aft (Foreign material)

CREW WR, WC, & SH (3-346-3-L)



7 FT Inside Duct Looking Starboard (Foreign material)

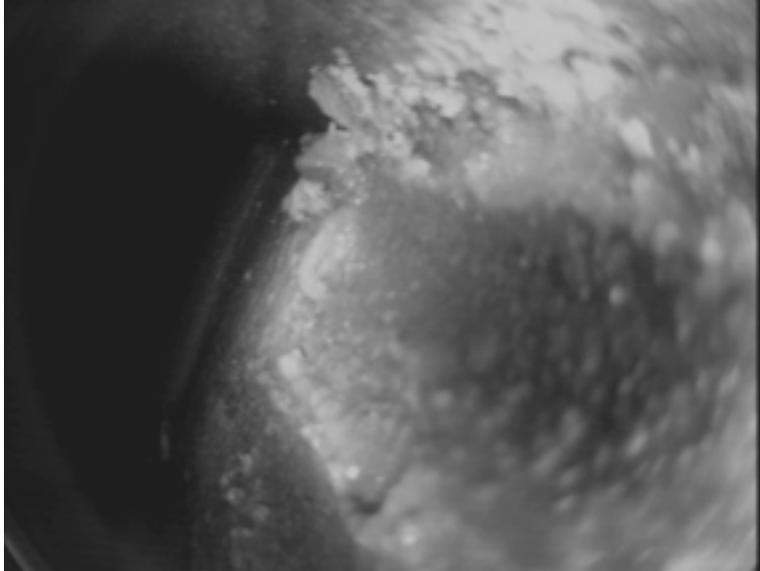
VENT SYSTEM 02-230-2, SUPPLY

T/A 1
EA04 P031
STATUS 3
PRI 3

As per Internal Video Inspection: SUPPLY DUCT, SYSTEM S 02-230-2 IN COMPT.
AMR 1 (5-220-0-E) IS DIRTY WITH SALT/DUST AND REQUIRES CLEANING.

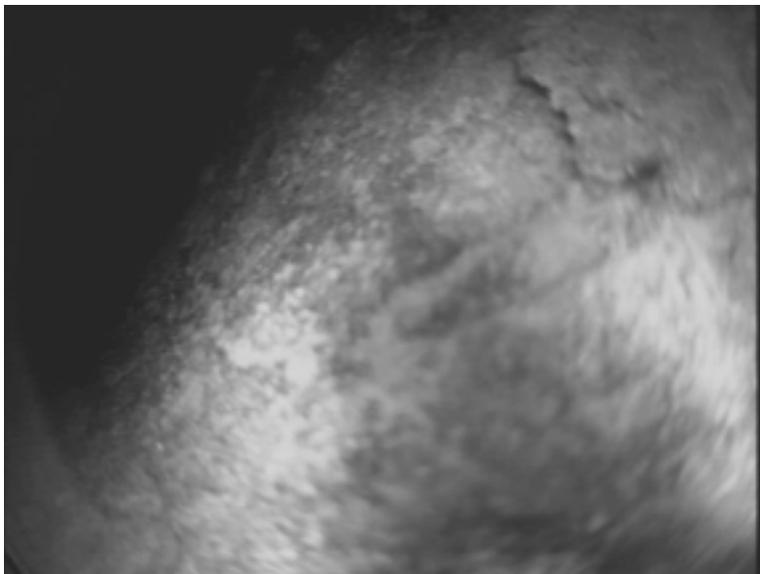
REPAIR ACTIVITY OPEN AND CLEAN SUPPLY DUCT, SYSTEM S 02-230-2
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

AMR 1 (5-220-0-E)



7 FT Inside Duct By Phone Booth (Foreign material)

AMR 1 (5-220-0-E)



28 FT Inside Duct By HP Compressor No. 1 (Foreign material)

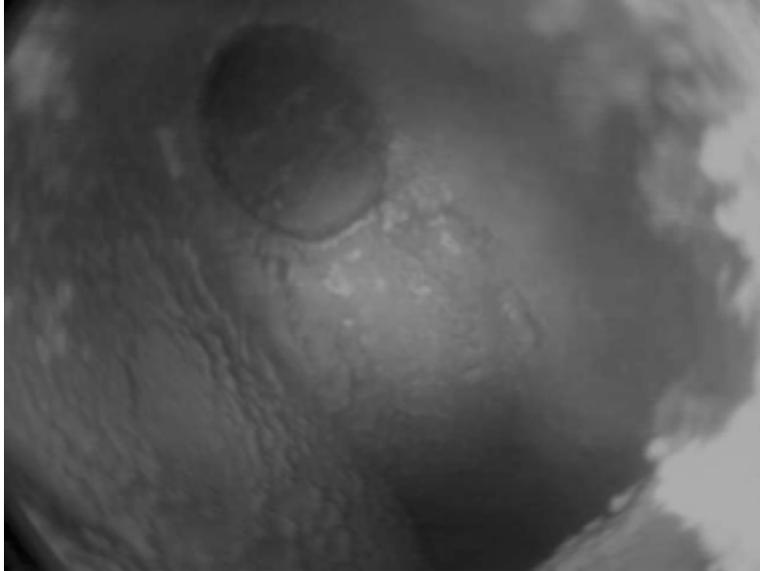
VENT SYSTEM 02-298-1, EXHAUST

T/A 1
EA04 P004
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 02-298-1 IN COMPT.
OFFICER WR, WC (01-322-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

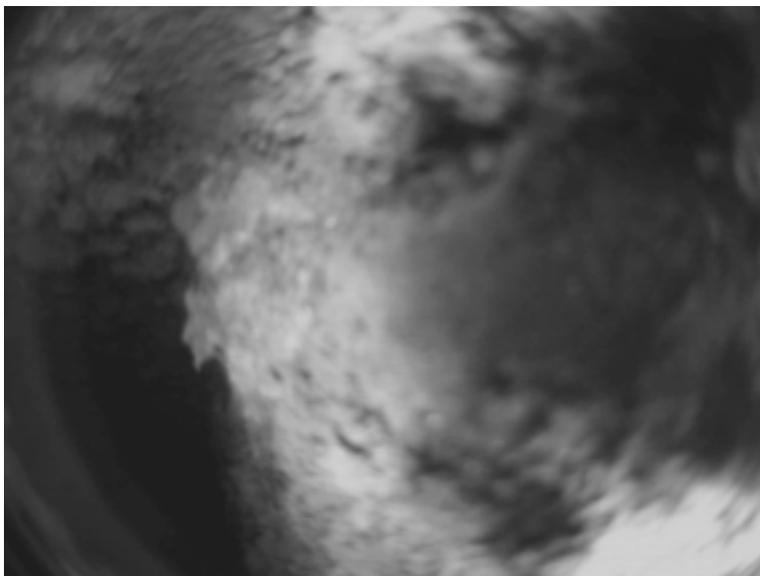
REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 02-298-1
IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

OFFICER WR, WC (01-322-0-L)



2 FT Inside Duct (Foreign material)

WARDROOM GALLEY (01-260-2-L)



2 FT Inside Duct (Foreign material)

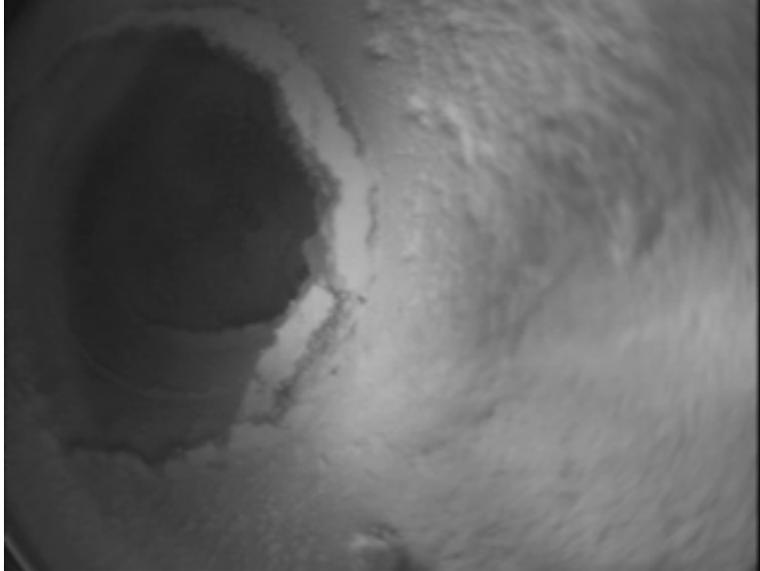
VENT SYSTEM 03-194-1, EXHAUST

T/A 1
EA04 P030
STATUS 3
PRI 3

As per Internal Video Inspection: EXHAUST DUCT, SYSTEM E 03-194-1 IN COMPT. PASSAGE (03-174-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

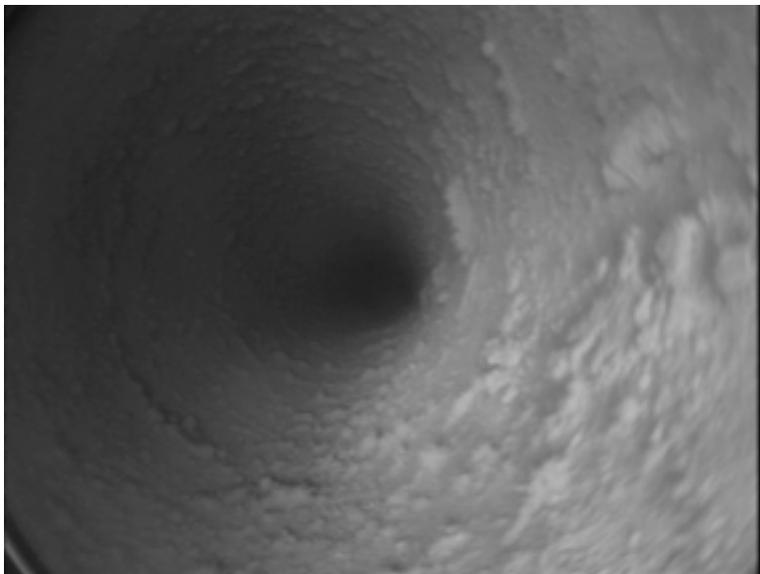
REPAIR ACTIVITY OPEN AND CLEAN EXHAUST DUCT, SYSTEM E 03-194-1 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

PASSAGE (03-174-0-L)



2 FT Inside Duct Looking Aft (Foreign material)

PASSAGE (03-174-0-L)



5 FT Inside Duct Looking Aft (Foreign material)

VENT SYSTEM 1-317-1, RECIRC SUPPLY

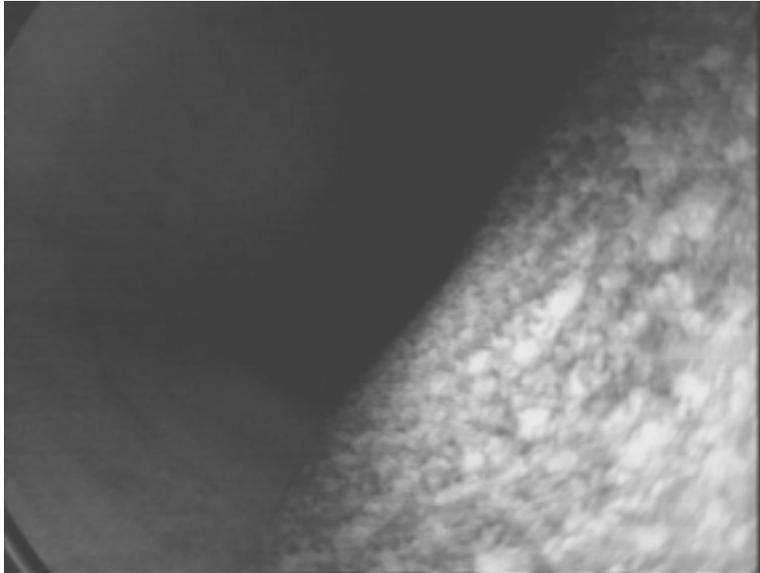
T/A 1
EA04 P032

As per Internal Video Inspection: RECIRC SUPPLY DUCT, SYSTEM R 1-317-1 (UNIT COOLER) IN COMPT. CREWS MESSROOM (1-300-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING

STATUS 3
PRI 3

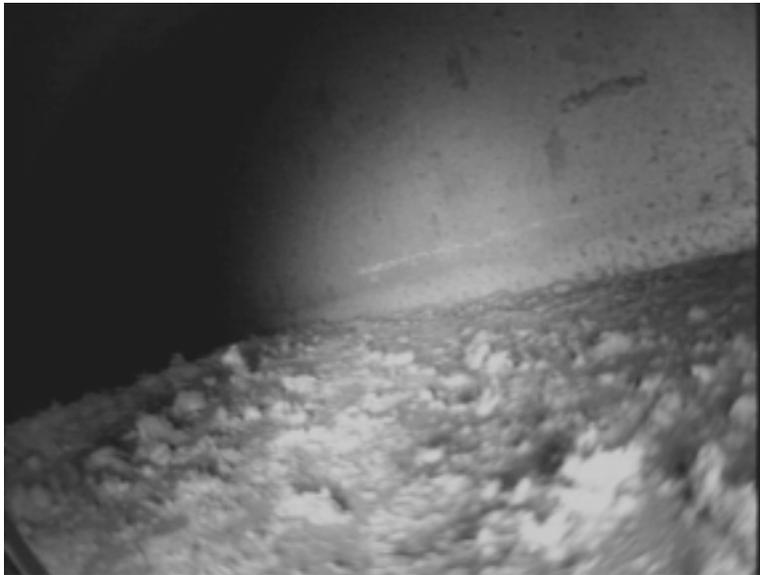
REPAIR ACTIVITY OPEN AND CLEAN RECIRC SUPPLY DUCT, SYSTEM R 1-317-1 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREWS MESSROOM (1-300-0-L)



4 FT Inside Duct (Foreign material)

CREWS MESSROOM (1-300-0-L)



6 FT Inside Duct (Foreign material)

VENT SYSTEM 1-341-2, RECIRC SUPPLY

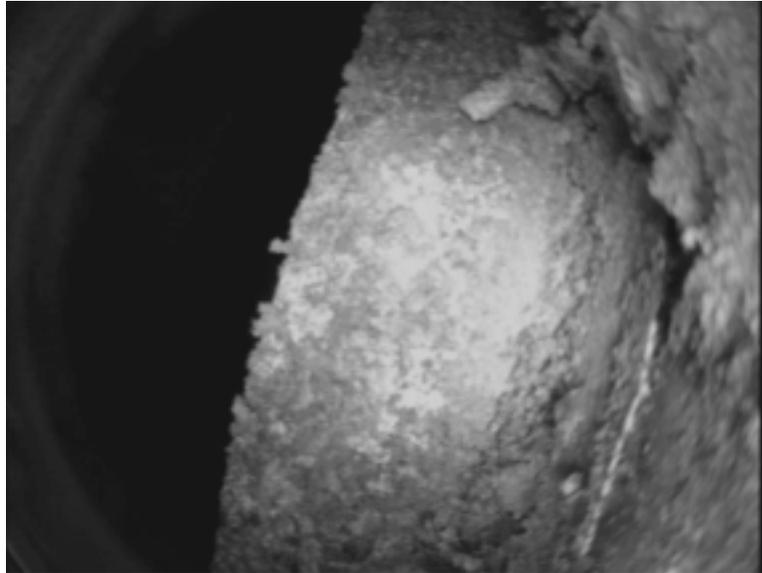
T/A 1
EA04 P034

STATUS 3
PRI 3

As per Internal Video Inspection: RECIRC SUPPLY DUCT, SYSTEM R 1-341-2 (UNIT COOLER) IN COMPT. CREWS MESSROOM (1-300-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING

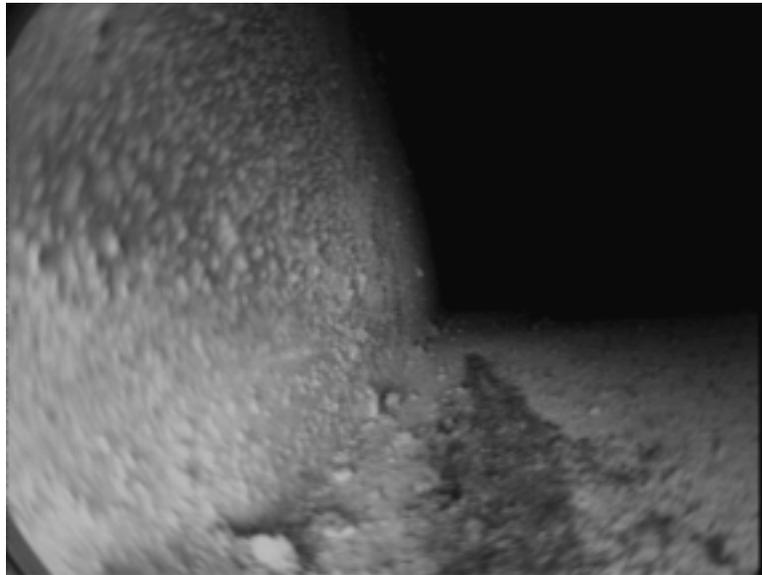
REPAIR ACTIVITY OPEN AND CLEAN RECIRC SUPPLY DUCT, SYSTEM R 1-341-2 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREWS MESSROOM (1-300-0-L)



3 FT Inside Duct From Unit Cooler (Foreign material)

CREWS MESSROOM (1-300-0-L)



6 FT Inside Duct Looking Aft From Vent Terminal (Foreign material)

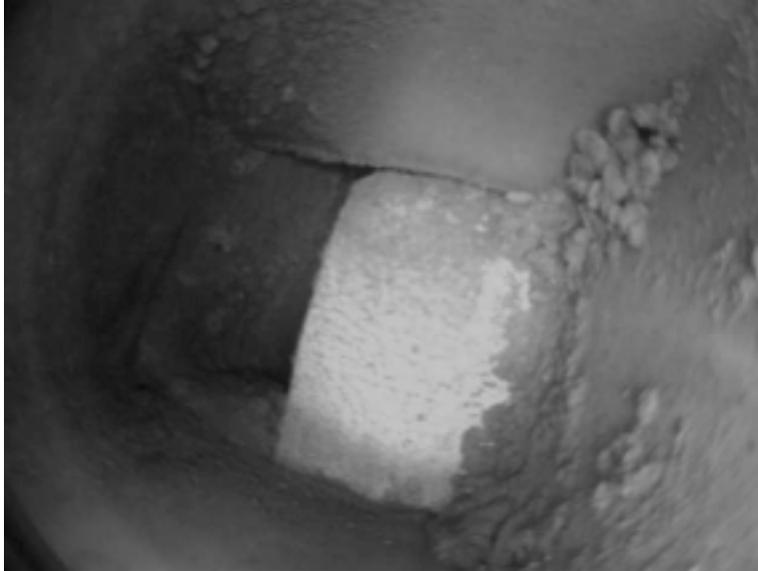
VENT SYSTEM 3-148-1, RECIRC SUPPLY

T/A 1
EA04 P002
STATUS 3
PRI 3

As per Internal Video Inspection: RECIRC SUPPLY DUCT, SYSTEM R 3-148-1 IN COMPT. CREW BERTHING (3-146-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

REPAIR ACTIVITY OPEN AND CLEAN RECIRC SUPPLY DUCT, SYSTEM R 3-148-1 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREW BERTHING (3-146-0-L)



3 FT Inside Duct Looking Starboard on Port Side (Foreign material)

VENT SYSTEM 3-149-2, RECIRC SUPPLY

T/A 1
EA04 P001
STATUS 3
PRI 3

As per Internal Video Inspection: RECIRC SUPPLY DUCT, SYSTEM R 3-149-2 IN COMPT. CREW BERTHING (3-146-0-L) IS DIRTY WITH LINT/DUST AND REQUIRES CLEANING.

REPAIR ACTIVITY OPEN AND CLEAN RECIRC SUPPLY DUCT, SYSTEM R 3-149-2 IN ITS ENTIRETY THEN RESTORE TO NORMAL OPERATION.

CREW BERTHING (3-146-0-L)



5 FT Inside Duct Looking Port on Starboard Side (Foreign material)