

# SEMIAT I

## USS TRENTON (LPD 14)

### INTERNAL VIDEO VENTILATION ASSESSMENT



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

**PORTSMOUTH, VIRGINIA**

SUPSHIP: F. THEKKUDAN. & QED: B. CAREW, B. PARSONS, D. McCoy

**11 THRU 22 DECEMBER 2000**

## SUMMARY

A ventilation duct internal inspection was accomplished IAW the requirements of References (a) and (b), on board the USS TRENTON (LPD 14) from 11 to 22 December 2000, during a SEMAT I visit at Metro Machine, 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 TRENTON'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

SYS NO	TYPE	MAF	REMARKS	REPORT PG NO
01-118-1	RECIRC RETURN	ER04 P145	System requires cleaning	1
01-119-2	RECIRC RETURN	ER04 P138	System requires cleaning	2
01-125-1	SUPPLY	ER04 P148	System requires cleaning	3
01-127-1	EXHAUST	ER04 P147	System requires cleaning	4
01-129-3	SUPPLY	ER04 P141	System requires cleaning	5
01-130-1	EXHAUST	ER04 P149	System requires cleaning	6
01-80-2	RECIRC SUPPLY	ER04 P146	System requires cleaning	7
01-82-2	RECIRC RETURN	ER04 P135	System requires cleaning	8
01-82-2	RECIRC SUPPLY	ER04 P135	System requires cleaning	9
01-94-1	EXHAUST	ER04 P150	System requires cleaning	10
02-79-1	RECIRC RETURN	ER04 P151	System requires cleaning	11
1-38-4	RECIRC RETURN	ER04 P216	System requires cleaning	12
1-50-3	RECIRC RETURN	ER04 P220	System requires cleaning	13
1-51-3	EXHAUST	ER04 P257	System requires cleaning	14
1-51-5	EXHAUST	ER04 P217	System requires cleaning	15
1-69-1	EXHAUST	ER04 P245	System requires cleaning	16
1-71-1	RECIRC RETURN	ER04 P144	System requires cleaning	17
1-74-1	EXHAUST	ER04 P153	System requires cleaning	18
1-83-2	EXHAUST	ER04 P143	System requires cleaning	19
1-138-2	RECIRC RETURN	ER04 P152	System requires cleaning	20
1-138-2	RECIRC SUPPLY	ER04 P244	System requires cleaning	21
2-100-2	EXHAUST	ER04 P219	System requires cleaning	22
2-173-1	EXHAUST	ER04 P243	System requires cleaning	23
2-214-1	RECIRC RETURN	ER04 P240	System requires cleaning	24
2-216-2	RECIRC RETURN	ER04 P223	System requires cleaning	25
2-229-2	SUPPLY	ER04 P253	System requires cleaning	26
2-230-1	EXHAUST	ER04 P242	System requires cleaning	27
2-242-2	EXHAUST	ER04 P249	System requires cleaning	28
2-34-2	RECIRC RETURN	ER04 P239	System requires cleaning	29
3-65-2	RECIRC RETURN	ER04 P237	System requires cleaning	30
3-65-2	RECIRC SUPPLY	ER04 P238	System requires cleaning	31
3-206-1	SUPPLY	ER04 P236	System requires cleaning	32
4-54-1	SUPPLY	ER04 P235	System requires cleaning	33
4-54-3	EXHAUST	ER04 P241	System requires cleaning	34
4-122-2	SUPPLY	ER04 P255	System requires cleaning	35
4-122-4	SUPPLY	ER04 P256	System requires cleaning	36
4-129-1	EXHAUST	ER04 P250	System requires cleaning	37
4-129-3	EXHAUST	ER04 P252	System requires cleaning	38

## SUMMARY OF RECOMMENDATIONS

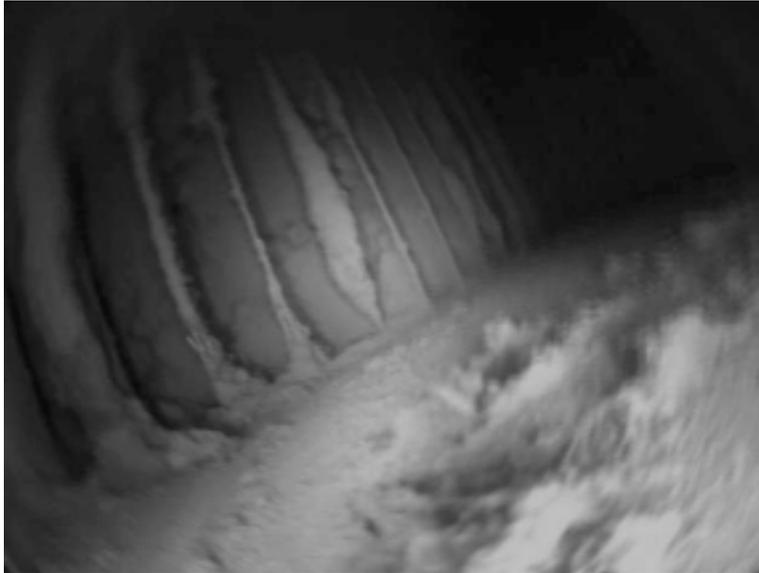
<b>SYS NO</b>	<b>TYPE</b>	<b>MAF</b>	<b>REMARKS</b>	<b>REPORT PG NO</b>
01-94-3	EXHAUST		Clean - No work required	
01-118-1	SUPPLY		Clean - No work required	
03-71-3	SUPPLY		Clean - No work required	
03-91-2	SUPPLY		Clean - No work required	
1-37-4	SUPPLY		Clean - No work required	
1-38-2	SUPPLY		Clean - No work required	
1-38-4	RECIRC SUPPLY		Clean - No work required	
1-71-1	RECIRC SUPPLY		Clean - No work required	
1-83-2	EXHAUST		Clean - No work required	
1-110-2	EXHAUST		Clean - No work required	
2-73-1	RECIRC RETURN		Clean - No work required	
2-135-2	SUPPLY		Clean - No work required	

# VENT SYSTEM 01-118-1, RECIRC RETURN

JSN: ER04 P145

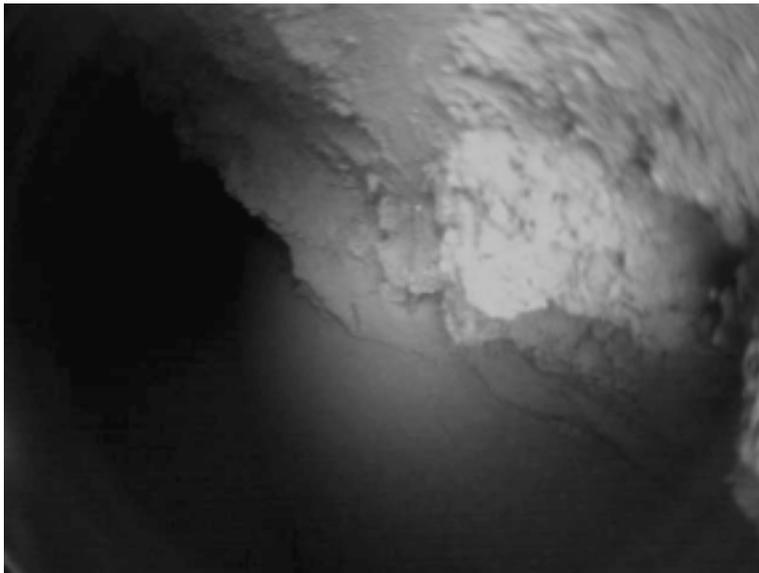
System Recommended for Cleaning

PASSAGE (01-108-3-L)



2 FT Inside Duct Looking Baffles (Foreign material)

FAN ROOM (01-117-1-Q)

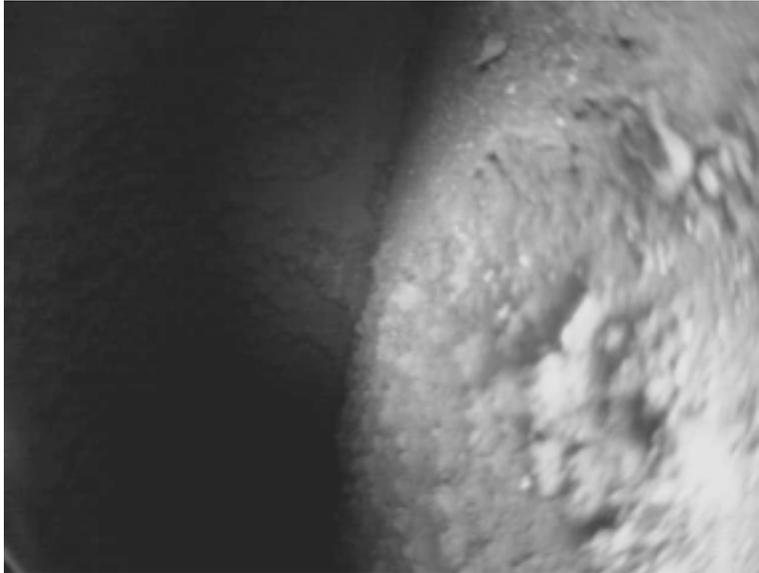


6 FT Inside Duct Looking Forward (Foreign material)

**VENT SYSTEM**  
**01-119-2, RECIRC RETURN**

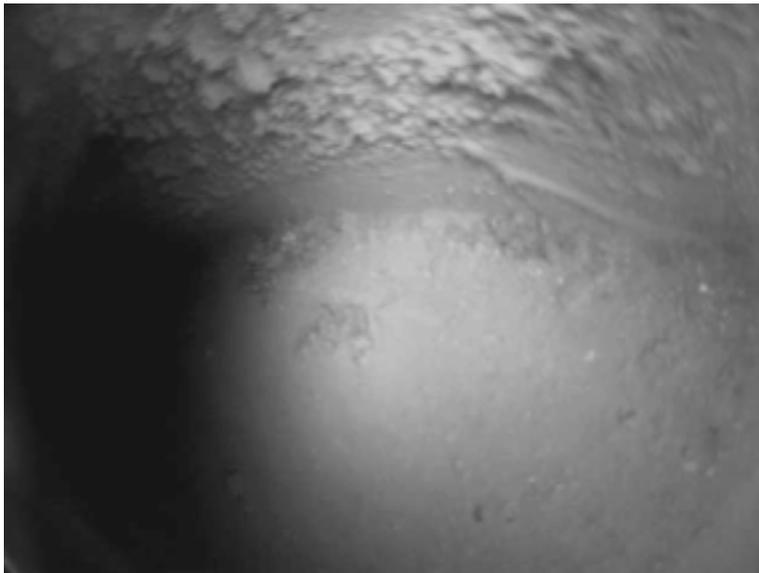
JSN: ER04 P138  
System Recommended for Cleaning

PASSAGE (01-108-4-L)



4 FT Inside Duct Looking Port (Foreign material)

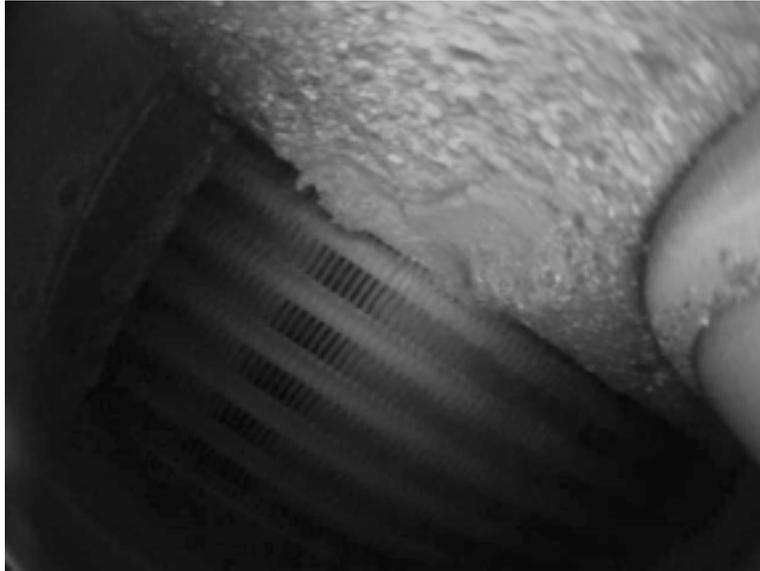
PASSAGE (01-108-4-L)



2 FT Inside Duct Looking Port (Foreign material)

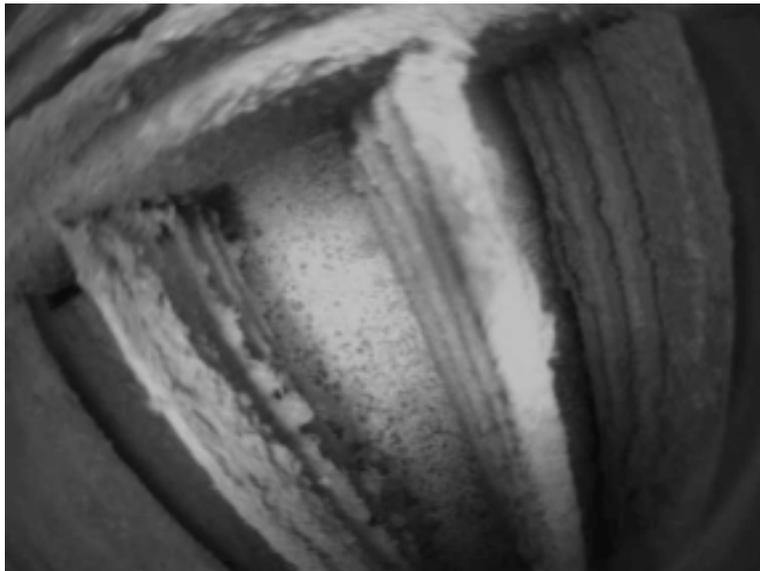
**VENT SYSTEM**  
**01-125-1, SUPPLY**  
JSN: ER04 P148  
System Recommended for Cleaning

MACHINE SHOP (1-128-0-Q)



7 FT Inside Duct Looking Starboard from desk (Foreign material)

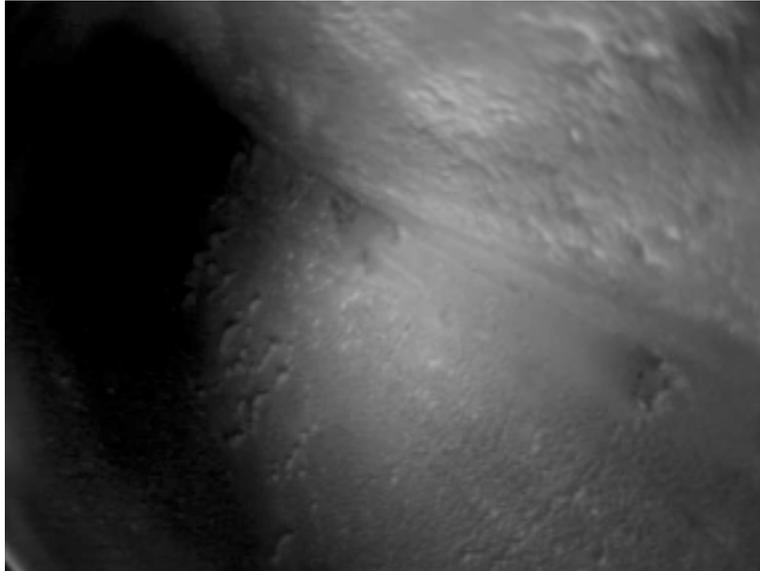
CREW SCULLERY (1-115-0-Q)



Looking at baffles at vent opening (Foreign material)

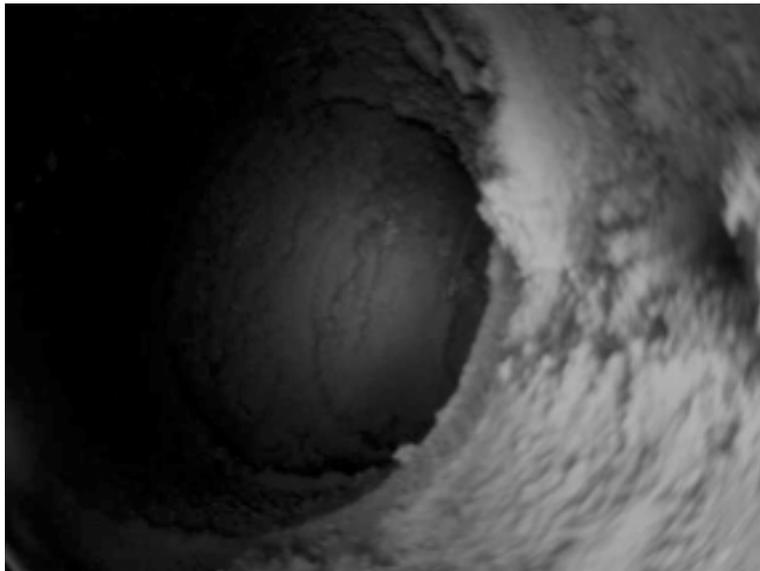
**VENT SYSTEM**  
**01-127-1, EXHAUST**  
JSN: ER04 P147  
System Recommended for Cleaning

IC & M/G ROOM (1-120-1-C)



6 FT Inside Duct Looking Forward (Foreign material)

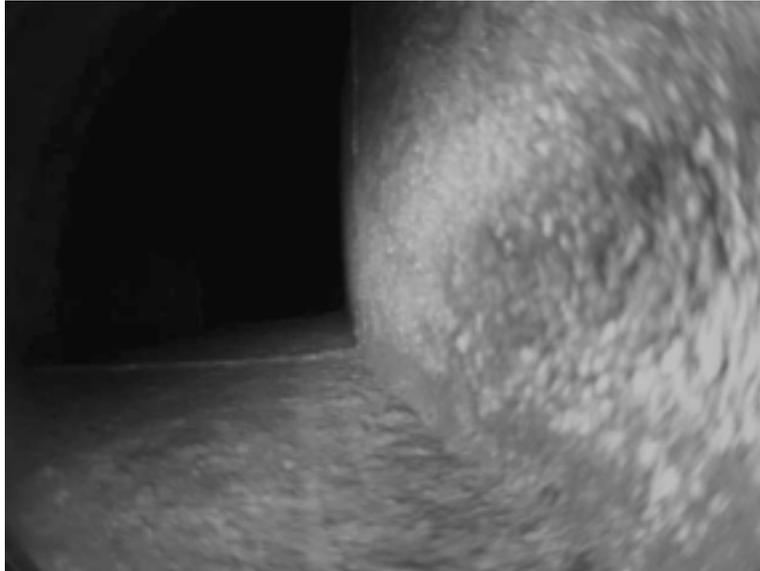
WARD BATH (2-132-4-L)



6 FT Inside Duct Looking Forward (Foreign material)

**VENT SYSTEM**  
**01-129-3, SUPPLY**  
JSN: ER04 P141  
System Recommended for Cleaning

PASSAGE (01-108-3-L)



7 FT Inside Duct Looking Aft (Foreign material)

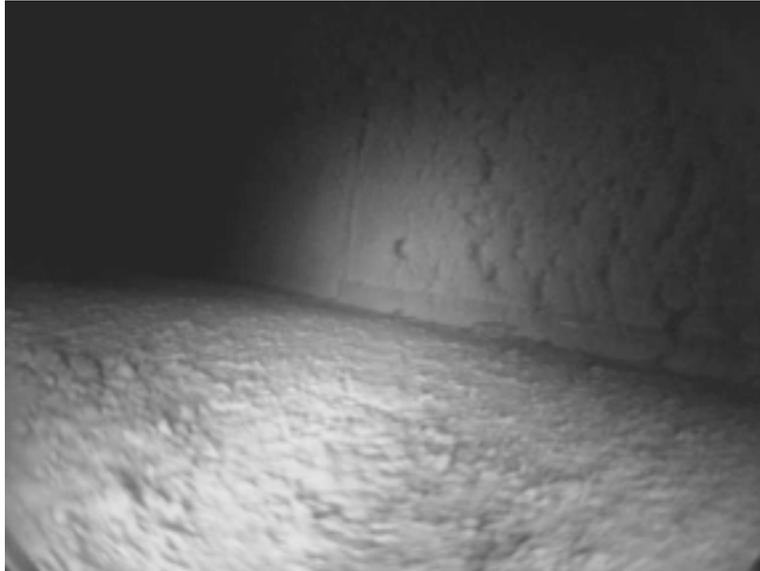
IC & M/G ROOM (1-120-1-C)



14 FT Inside Duct Looking Aft (Foreign material)

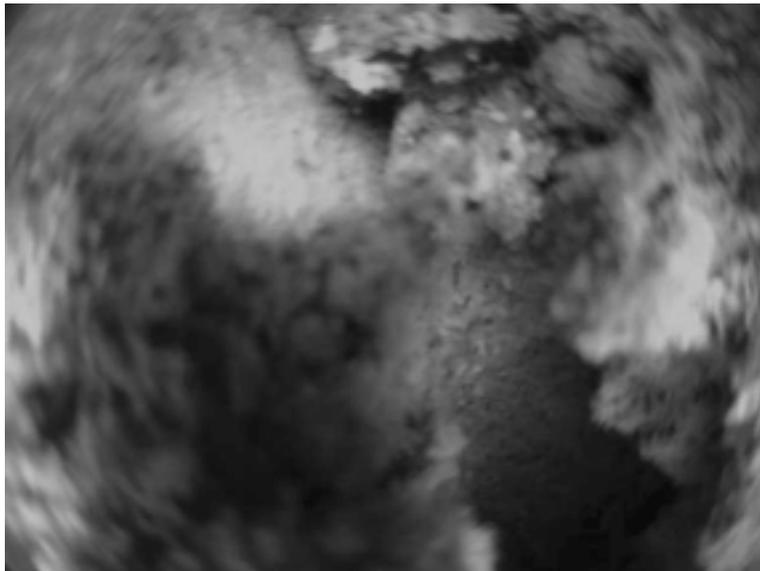
**VENT SYSTEM**  
**01-130-1, EXHAUST**  
JSN: ER04 P149  
System Recommended for Cleaning

MACHINE SHOP (1-128-0-Q)



7 FT Inside Duct Looking Forward (Foreign material)

CREW SCULLERY (1-115-0-Q)



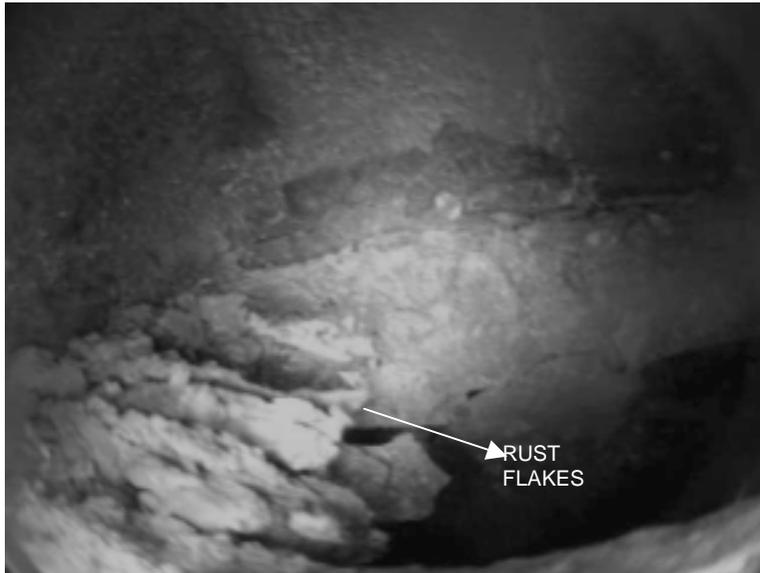
Just inside vent over the dishwasher (Foreign material)

# VENT SYSTEM 01-80-2, RECIRC SUPPLY

JSN: ER04 P146

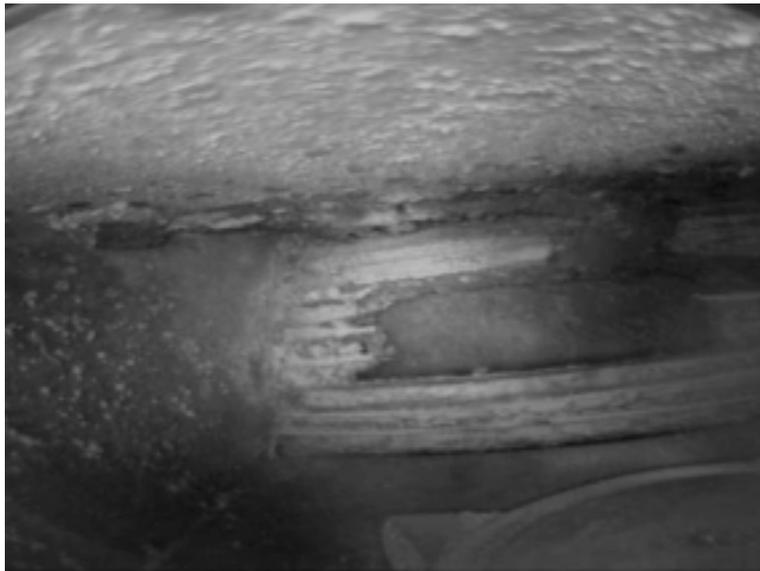
System Recommended for Cleaning

FAN ROOM (01-108-3-L)



At elbow of duct by motor looking down (Foreign material)

FAN ROOM (01-117-1-Q)



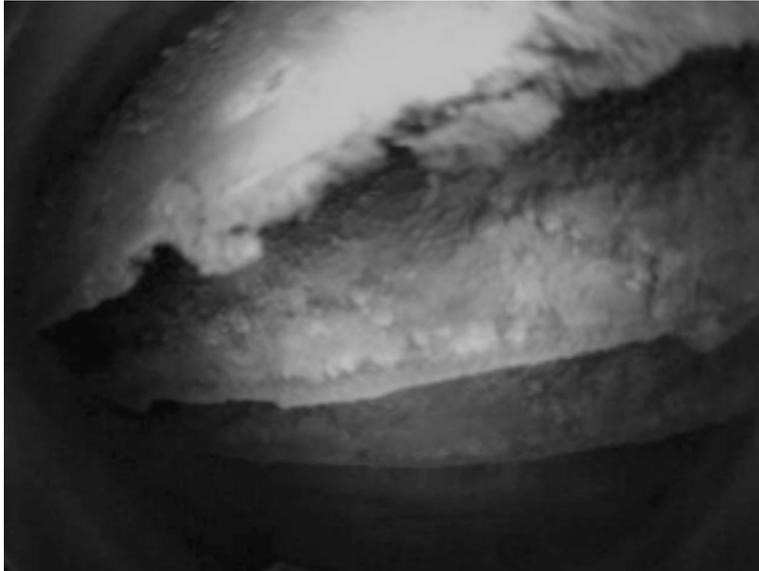
From fins looking toward elbow of duct (Foreign material)

# VENT SYSTEM 01-80-2, RECIRC RETURN

JSN: ER04 P135

System Recommended for Cleaning

FAN ROOM (01-80-2-Q)



Inside Duct Looking Baffles (Foreign material)

FAN ROOM (01-80-2-Q)

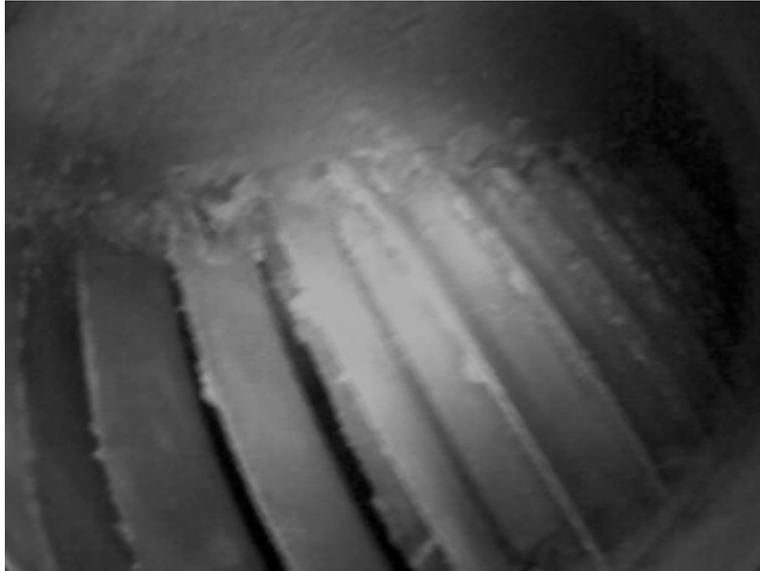


8 FT Inside Duct Looking Starboard (Foreign material)

**VENT SYSTEM**  
**01-82-2, RECIRC SUPPLY**

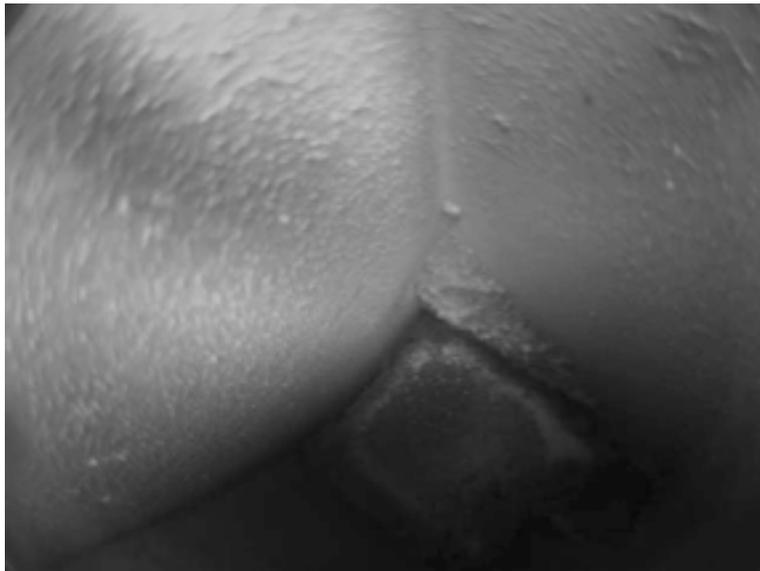
JSN: ER04 P135  
System Recommended for Cleaning

FAN ROOM (01-80-2-Q)



Inside Duct Looking Baffles (Foreign material)

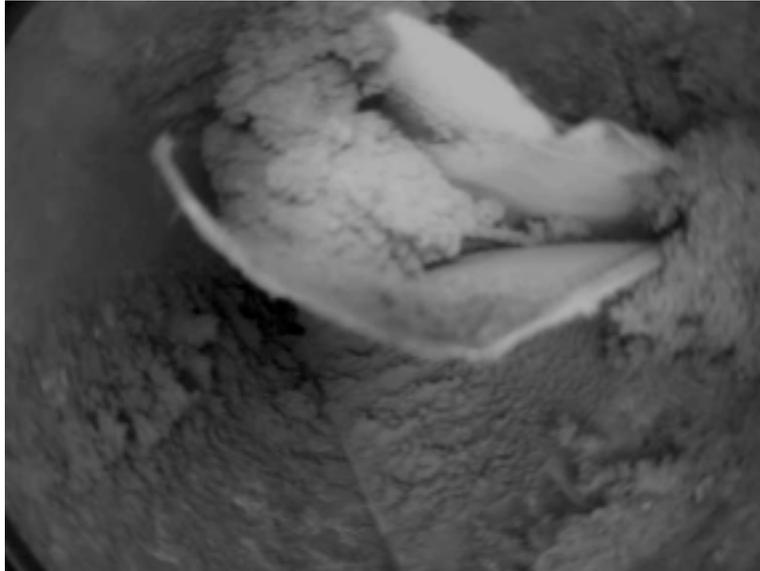
PASSAGE (01-56-2-L)



4 FT Inside Duct Looking Starboard (Foreign material)

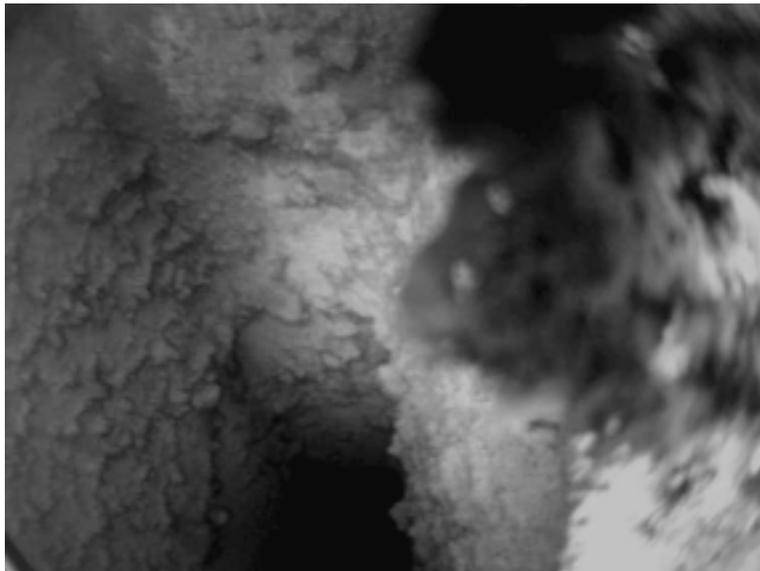
**VENT SYSTEM**  
**01-94-1, EXHAUST**  
JSN: ER04 P150  
System Recommended for Cleaning

BRIDGE HEAD (02-87-1-L)



2 FT Inside Duct Looking down (Foreign material)

CAPTAIN GALLEY (01-60-0-Q)

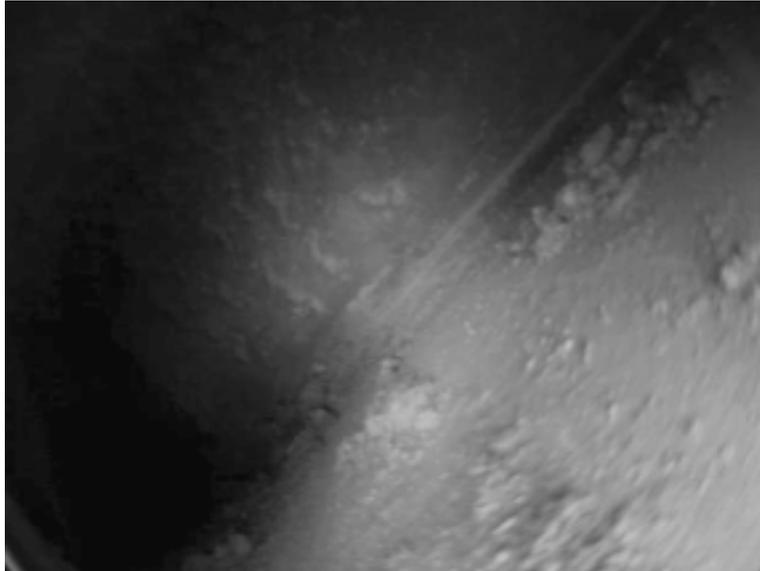


4 FT Inside Duct Looking starboard (Foreign material)

**VENT SYSTEM**  
**02-79-1, RECIRC RETURN**

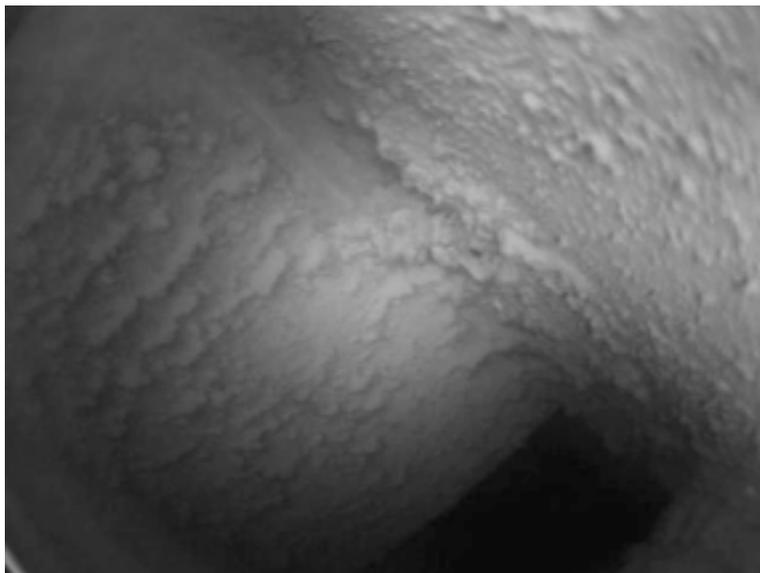
JSN: ER04 P151  
System Recommended for Cleaning

CIC (02-60-0-C)



2 FT Inside Duct Looking Aft (Foreign material)

OPS OFFICE (02-70-1-C)



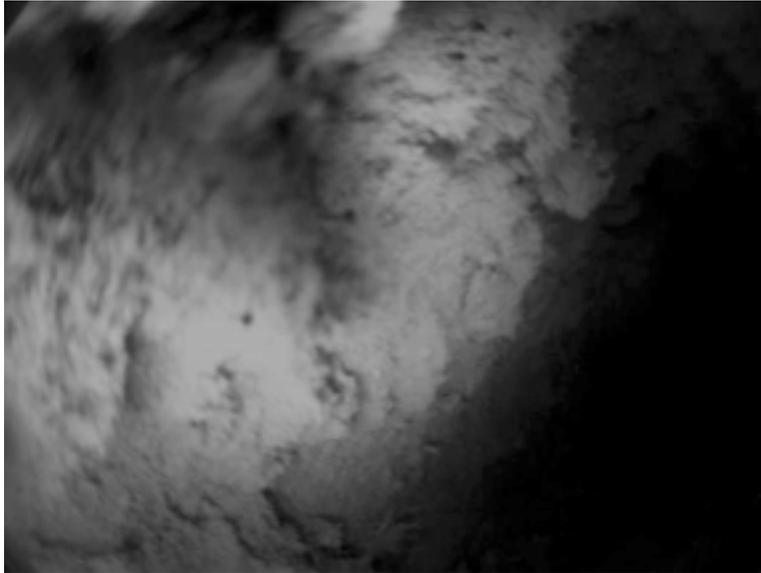
2 FT Inside Duct Looking Aft (Foreign material)

# VENT SYSTEM 1-38-4, RECIRC RETURN

JSN: ER04 P216

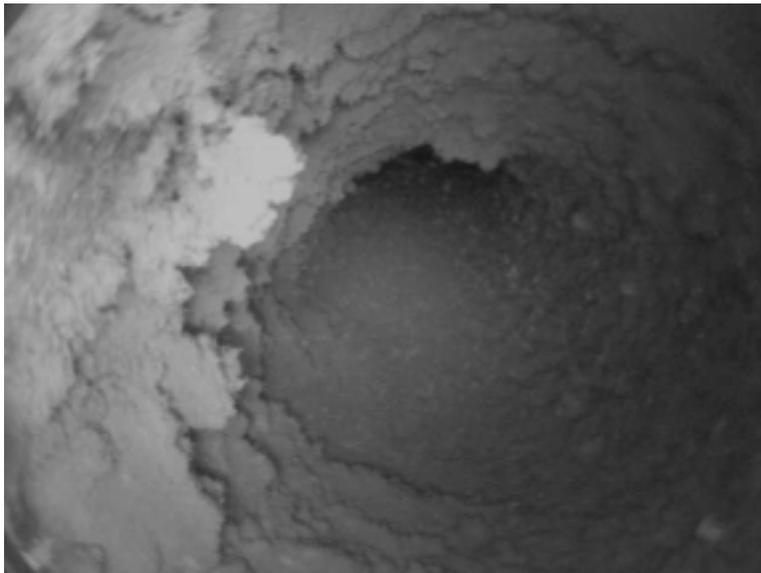
System Recommended for Cleaning

PASSAGE (1-38-2-L)



6 FT Inside Duct Looking Port (Foreign material)

PASSAGE (1-38-2-L)



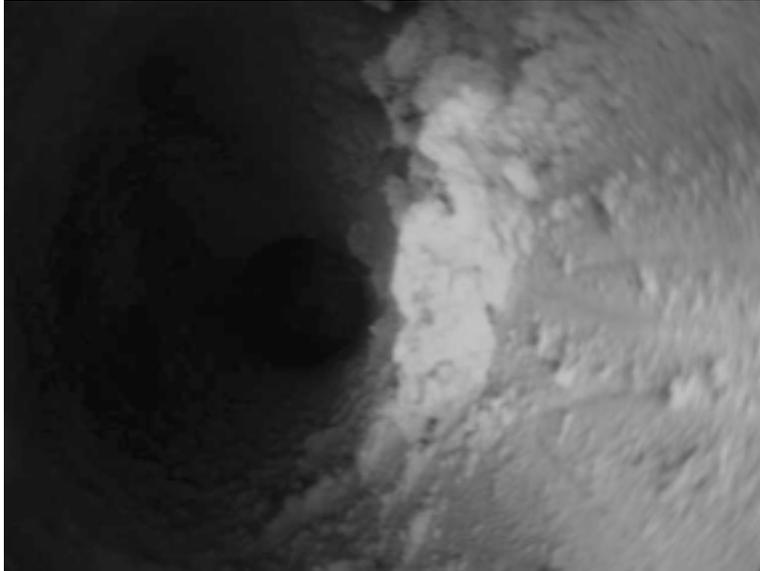
8 FT Inside Duct Looking Port (Foreign material)

# VENT SYSTEM 1-50-3, RECIRC RETURN

JSN: ER04 P220

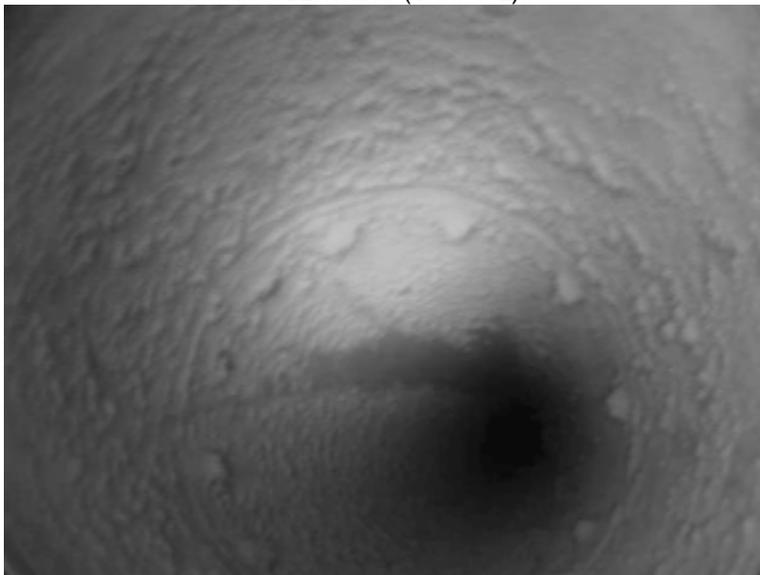
System Recommended for Cleaning

CPO BERTHING (1-36-3-L)



6 FT Inside Duct Looking Starboard (Foreign material)

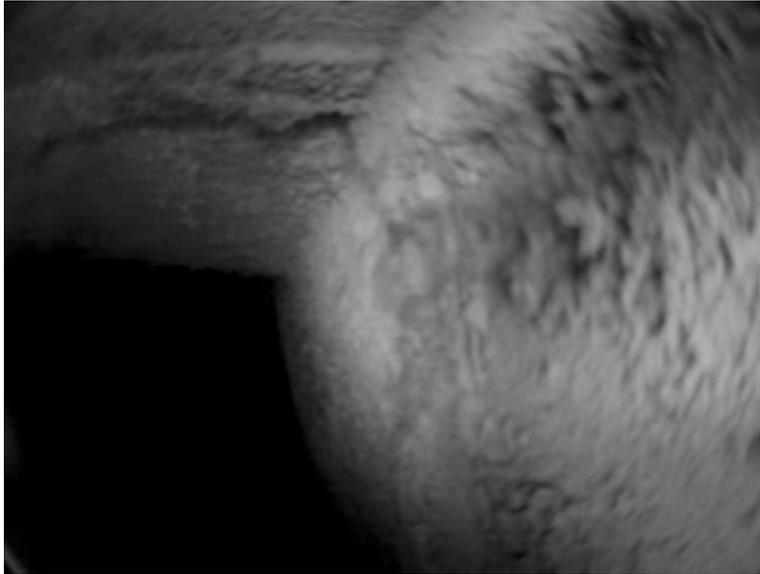
CPO BERTHING (1-36-3-L)



1 FT Inside Duct Looking Starboard (Foreign material)

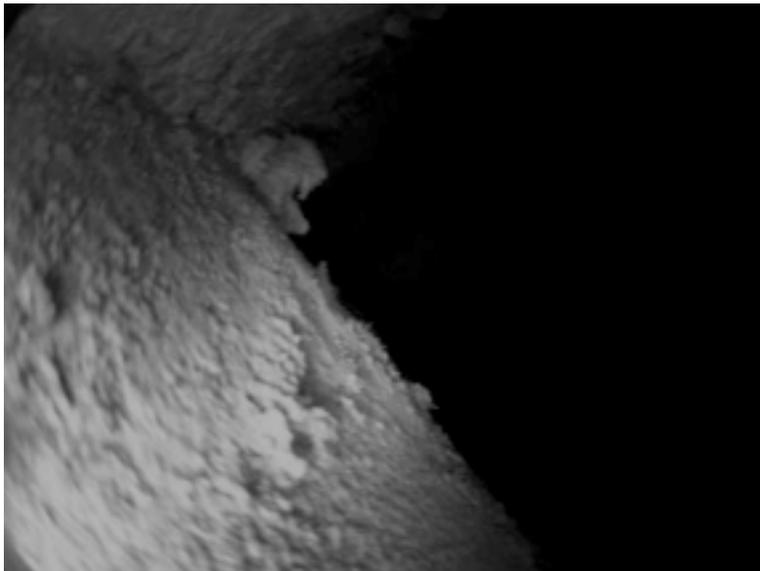
**VENT SYSTEM**  
**1-51-3, EXHAUST**  
JSN: ER04 P257  
System Recommended for Cleaning

LAUNDRY (2-43-1-Q)



3 FT Inside Duct Looking Forward Toward Presses (Foreign material)

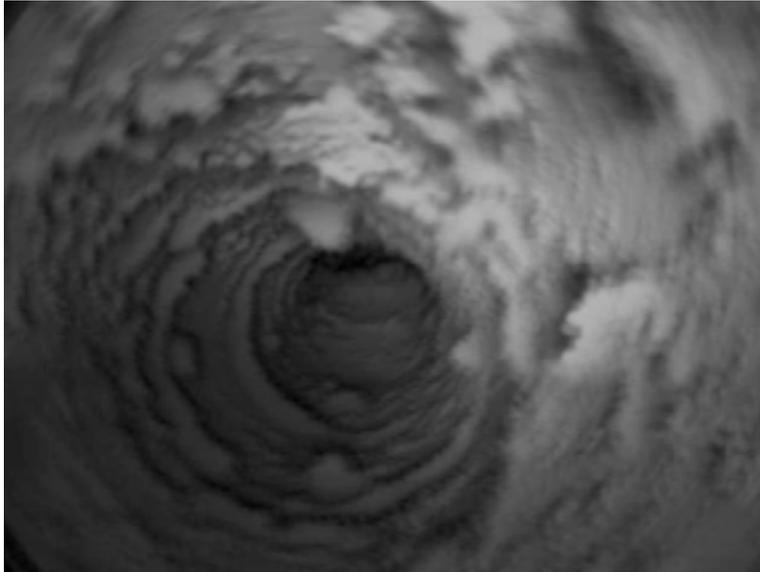
FAN ROOM (1-49-1-Q)



4 FT Inside Duct Looking Down (Foreign material)

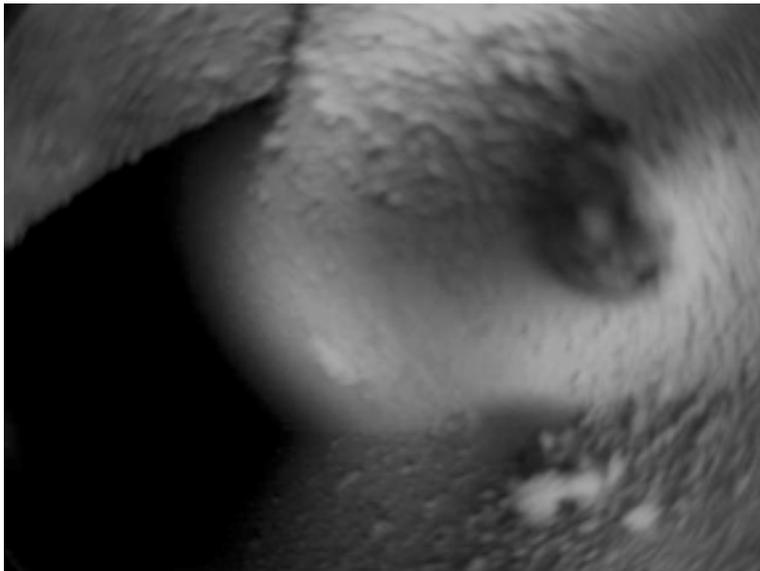
**VENT SYSTEM**  
**1-51-5, EXHAUST**  
JSN: ER04 P217  
System Recommended for Cleaning

CPO HEAD (1-52-5-L)



1 FT Inside Duct Looking Starboard (Foreign material)

CPO GALLEY (1-48-0-Q)



6 FT Inside Duct Looking Starboard (Foreign material)

# VENT SYSTEM 1-69-1, EXHAUST

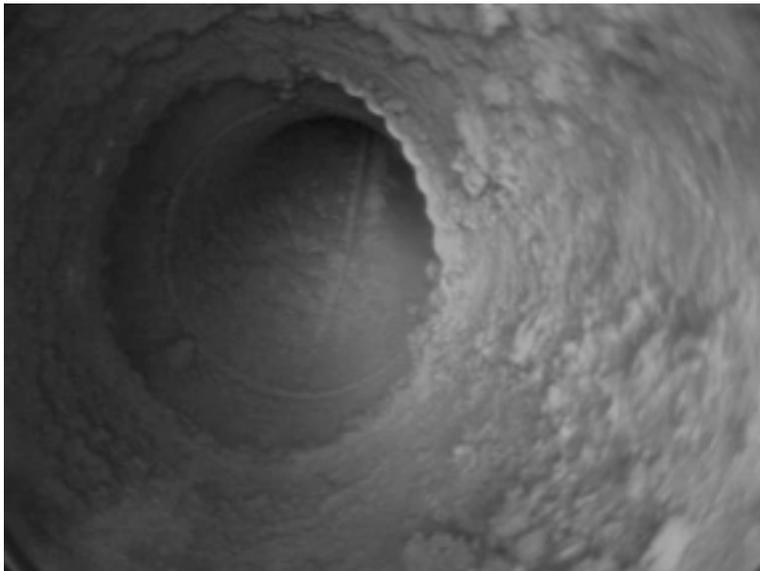
JSN: ER04 P245  
System Recommended for Cleaning

FILTER CLEANING SHOP (3-79-1-Q)



5 FT Inside Duct Looking AFT (Foreign material)

CREW WR, WC,SHR (3-68-3-L)



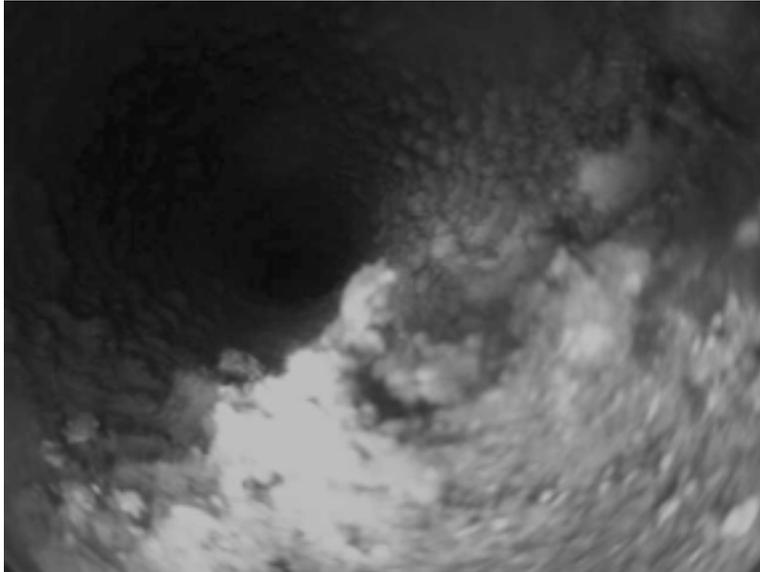
4 FT Inside Duct Looking Forward (Foreign material)

# VENT SYSTEM 1-71-1, RECIRC RETURN

JSN: ER04 P144

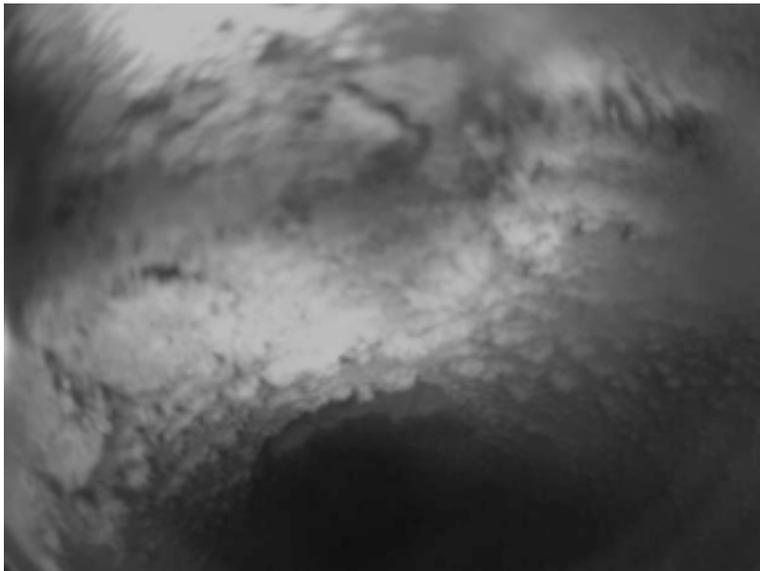
System Recommended for Cleaning

VEG PREP ROOM (1-75-1-Q)



6 FT Inside Duct Looking Forward (Foreign material)

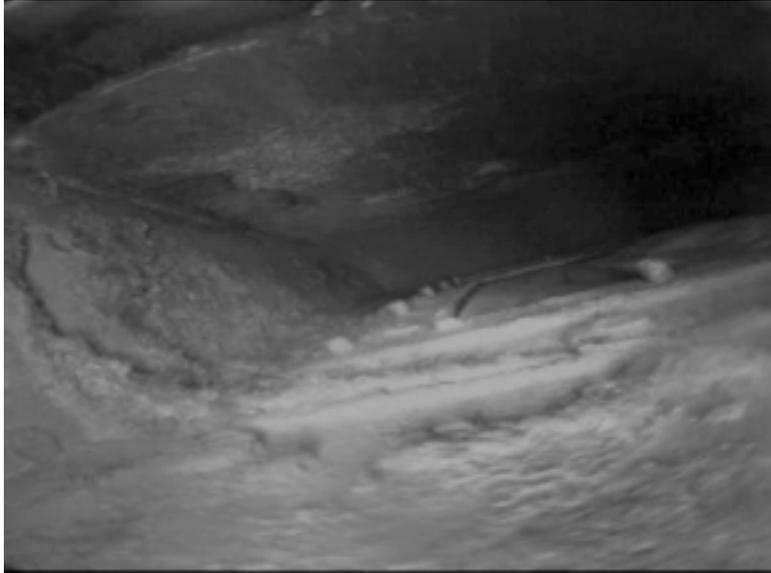
FAN ROOM (01-117-1-Q)



8 FT Inside Duct Looking Forward (Foreign material)

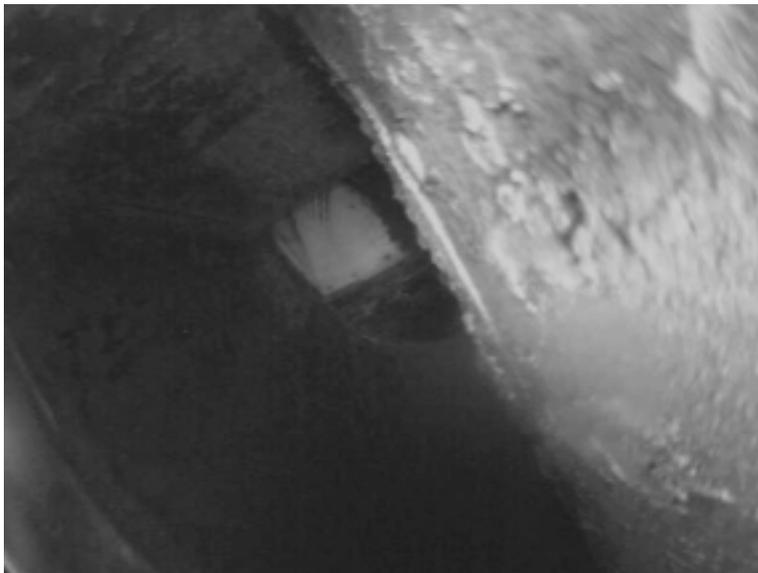
**VENT SYSTEM**  
**1-74-1, EXHAUST**  
JSN: ER04 P153  
System Recommended for Cleaning

CREW GALLEY (1-68-0-Q)



6 FT Inside Duct Looking Toward Port Convection Oven (Foreign material)

CREW GALLEY (1-68-0-Q))



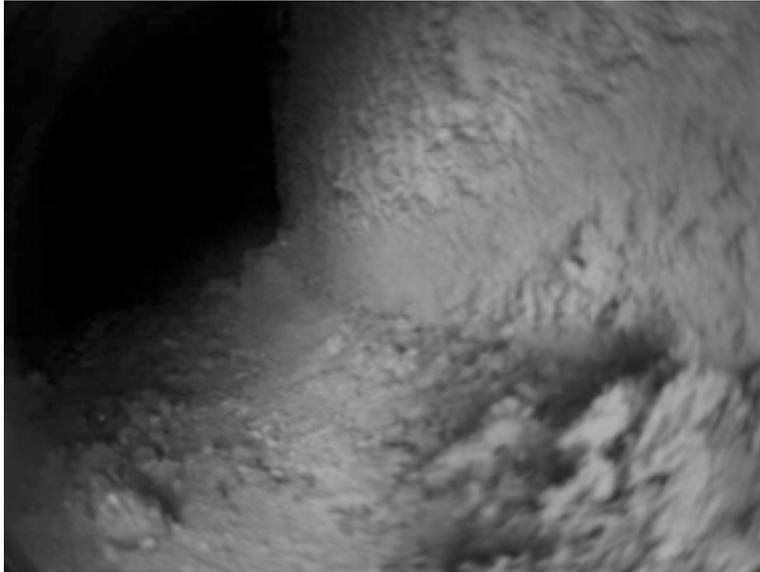
2 ft into duct Looking Aft Towards Deep Fat Fryer Gaylord Hood (Foreign material)

# VENT SYSTEM 1-83-2, EXHAUST

JSN: ER04 P143

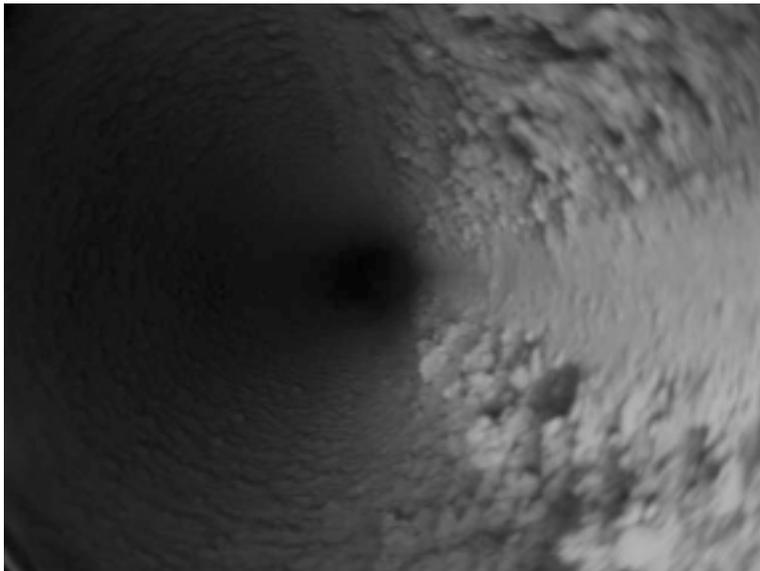
System Recommended for Cleaning

OFFICER WR, WC, SH (01-91-2-L)



8 FT Inside Duct Looking forward (Foreign material)

FAN ROOM (2-84-4-L)



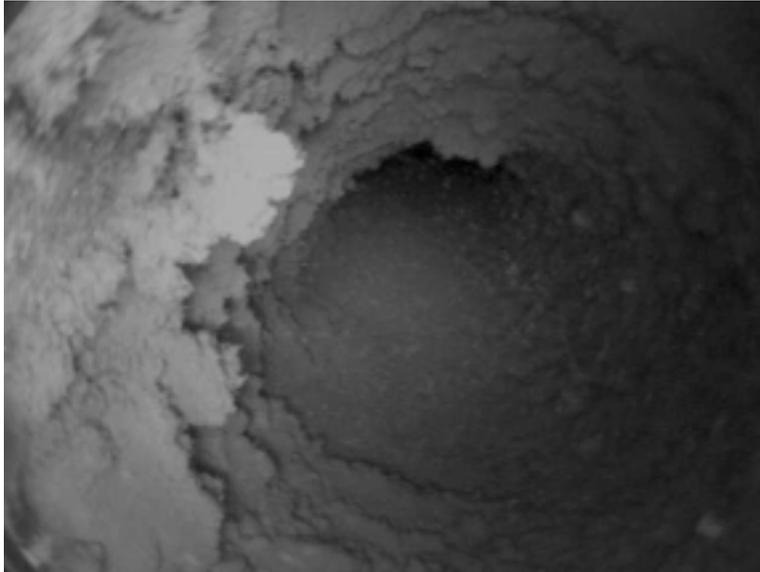
10 FT Inside Duct Looking Forward (Foreign material)

# VENT SYSTEM 1-138-2, RECIRC RETURN

JSN: ER04 P152

System Recommended for Cleaning

AIR OFFICE (1-124-6-Q)



2 FT Inside Duct Looking Starboard (Foreign material)

AIR OFFICE (1-124-6-Q)



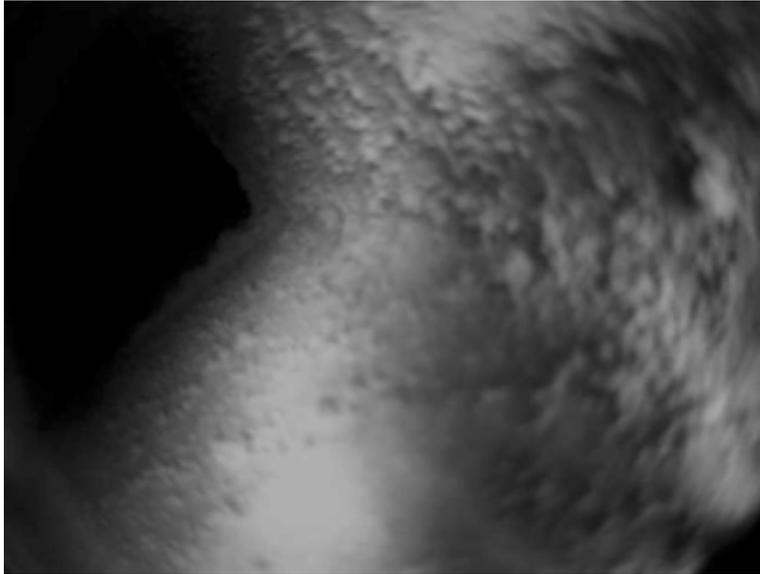
4 FT Inside Duct Looking Starboard (Foreign material)

**VENT SYSTEM  
1-138-2, RECIRC SUPPLY**

JSN: ER04 P224

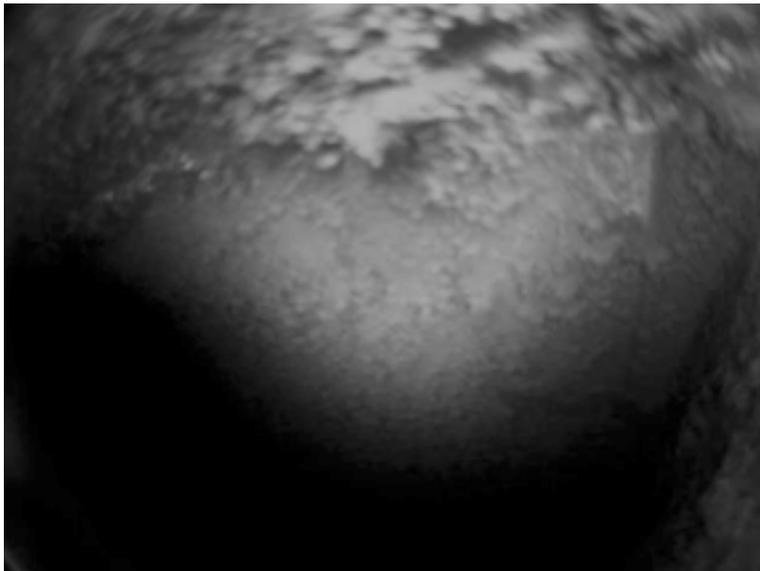
System Recommended for Cleaning

PASSAGE (01-108-3-L)



2 FT Inside Duct Looking Baffles (Foreign material)

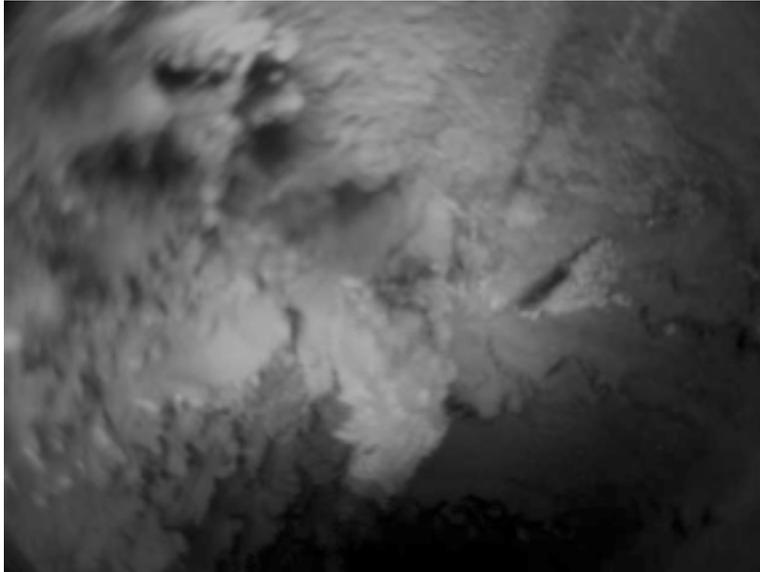
FAN ROOM (01-117-1-Q)



6 FT Inside Duct Looking Forward (Foreign material)

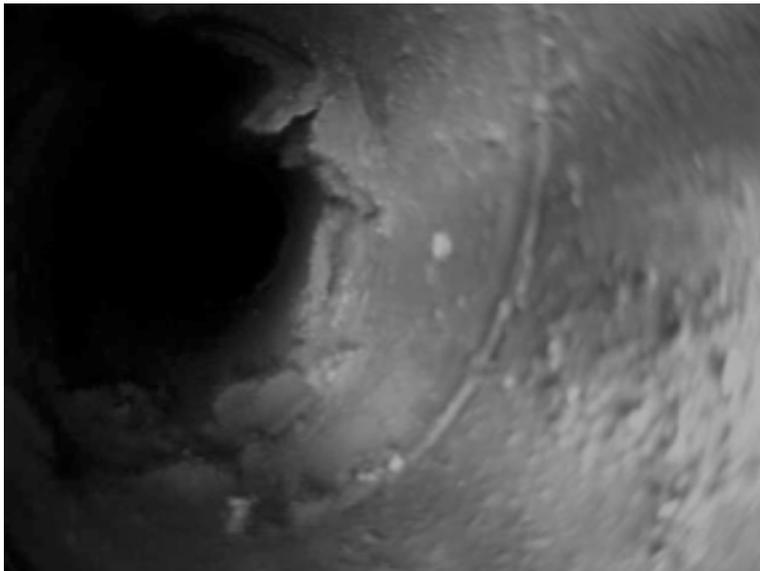
**VENT SYSTEM**  
**2-100-2, EXHAUST**  
JSN: ER04 P219  
System Recommended for Cleaning

OPERATING ROOM (2-108-4-L)



Inside Duct Looking up From Over Reefer (Foreign material)

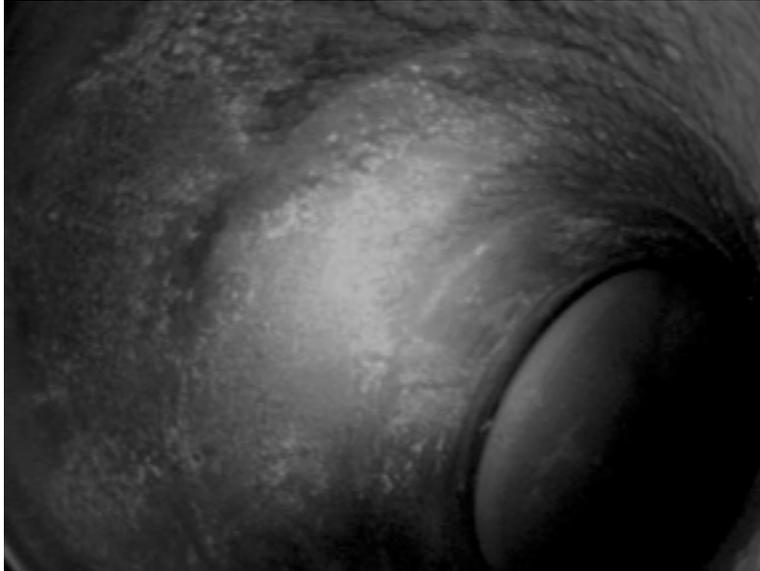
OPERATING ROOM (2-108-4-L))



8 FT Inside Duct Looking Up at Frame 103 (Foreign material)

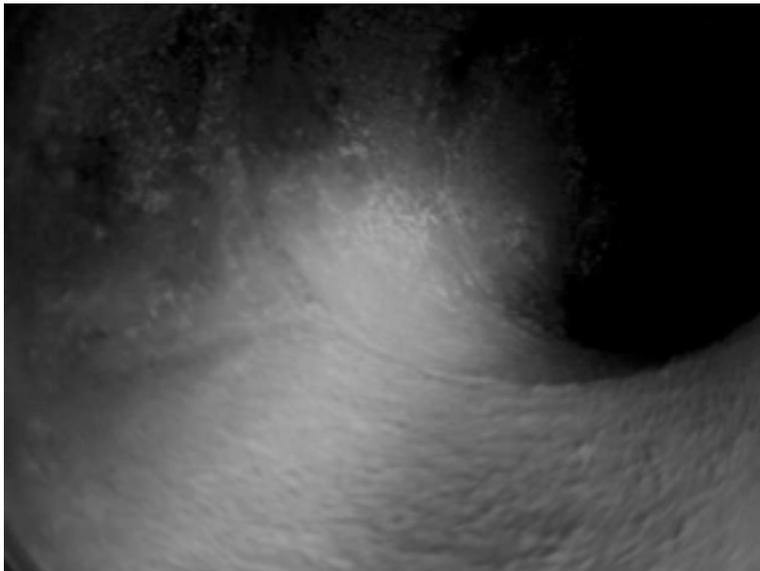
**VENT SYSTEM**  
**2-173-1, EXHAUST**  
JSN: ER04 P243  
System Recommended for Cleaning

TROOP BERTHING (2-172-1-L)



1 FT Inside Duct Looking PORT (Foreign material)

TROOP BERTHING (2-172-1-L)



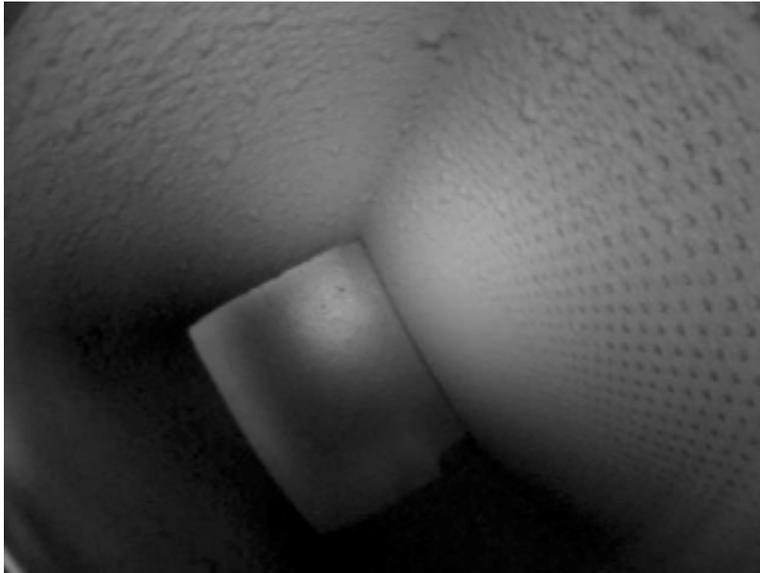
2 FT Inside Duct Looking Up PORT (Foreign material)

**VENT SYSTEM**  
**2-214-1, RECIRC RETURN**

JSN: ER04 P240

System Recommended for Cleaning

TROOP BERTHING (2-200-1-L)



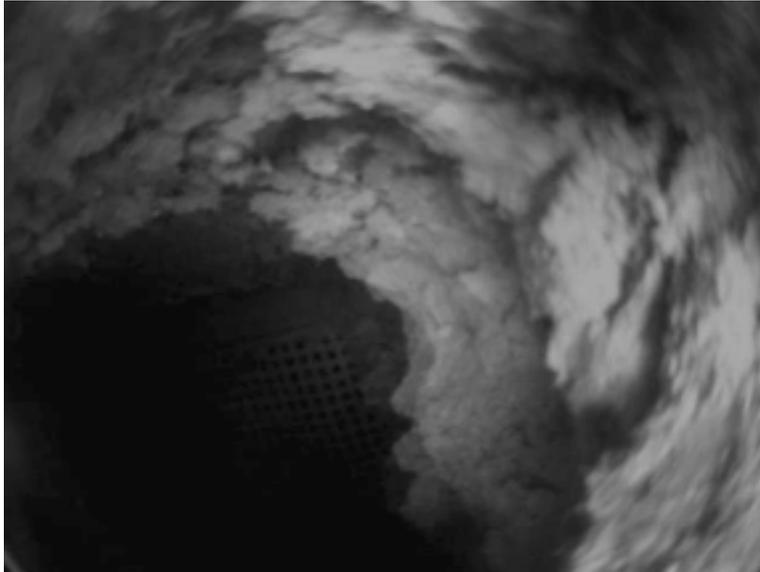
2 FT Inside Duct Looking Down (Foreign material)

# VENT SYSTEM 2-216-2, RECIRC RETURN

JSN: ER04 P223

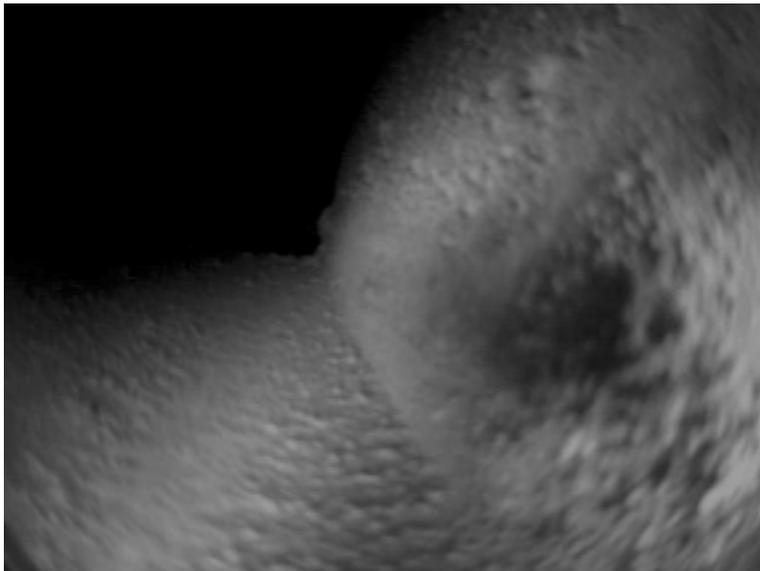
System Recommended for Cleaning

TROOP BERTHING (2-216-2-L)



4 FT Inside Duct Looking Aft (Foreign material)

TROOP BERTHING (2-216-2-L)



3 FT Inside Duct Looking Aft (Foreign material)

**VENT SYSTEM**  
**2-229-2, SUPPLY**  
JSN: ER04 P253  
System Recommended for Cleaning

EMER GEN ROOM # 2 (2-232-2-E)



3 FT Inside Duct Looking Port at Frame 238 (Foreign material)

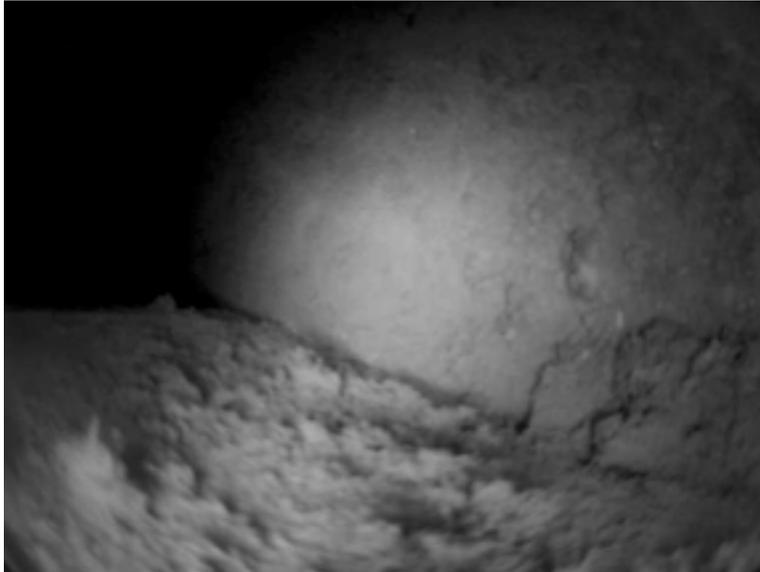
EMER GEN ROOM # 2 (2-232-2-E)



6 FT Inside Duct Looking Forward at Frame 240 (Foreign material)

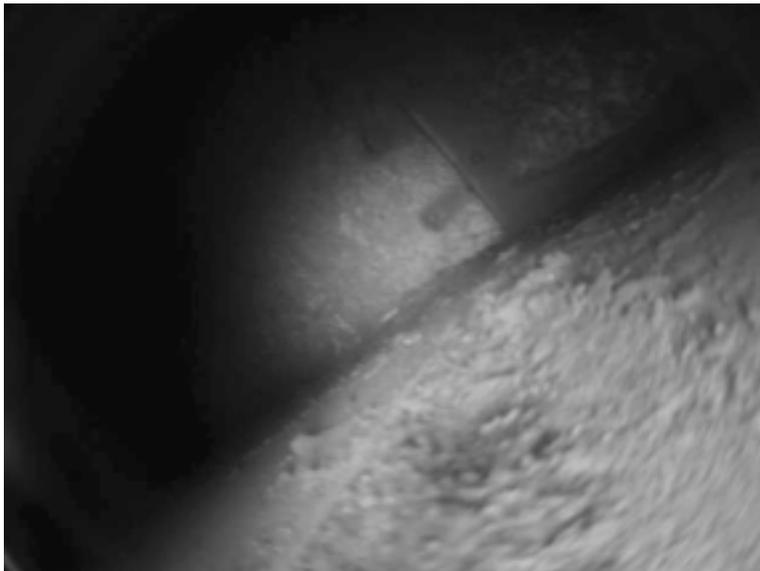
**VENT SYSTEM**  
**2-230-1, EXHAUST**  
JSN: ER04 P242  
System Recommended for Cleaning

TROOP WR, WC, SH (2-160-3-L)



3 FT Inside Duct Looking Starboard (Foreign material)

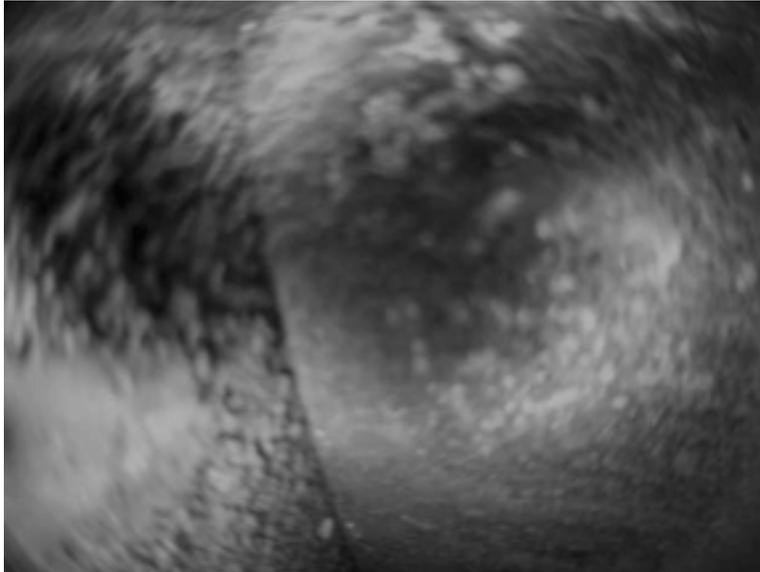
TROOP BERTHING (2-216-3-L)



8 FT Inside Duct Looking Aft (Foreign material)

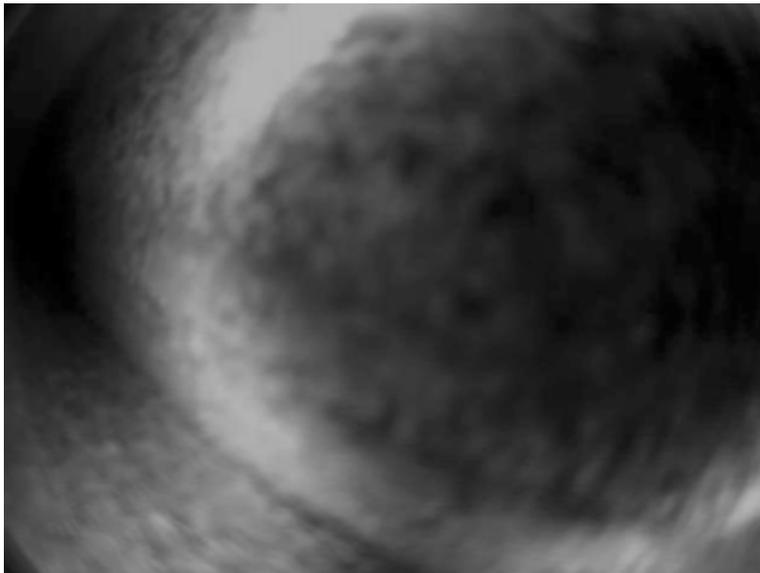
**VENT SYSTEM**  
**01-118-1, EXHAUST**  
JSN: ER04 P249  
System Recommended for Cleaning

EMERG GEN ROOM 2 (2-160-3-L)



4 FT Inside Duct Looking up (Foreign material)

EMERG GEN ROOM 2 (2-160-3-L)



6 FT Inside Duct Looking Foreware (Foreign material)

# **VENT SYSTEM 2-34-2, RECIRC RETURN**

JSN: ER04 P239

System Recommended for Cleaning

CREW BERTHING (2-22-0-L)



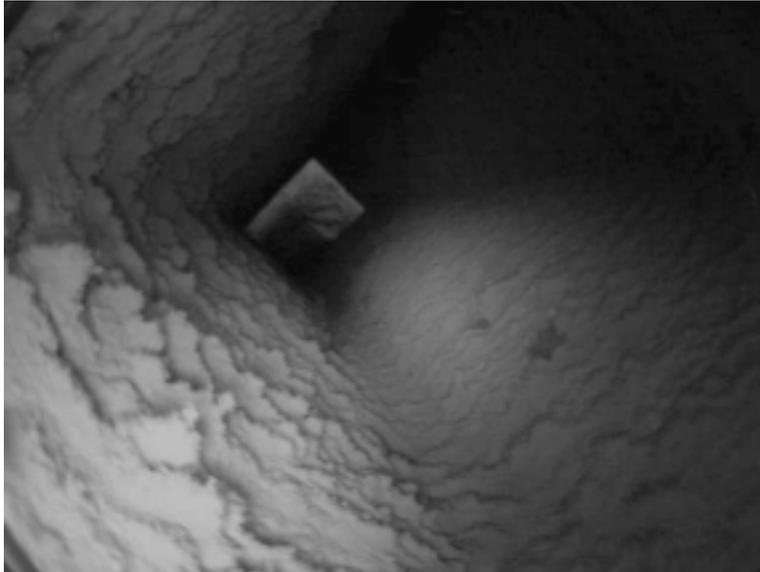
1 FT Inside Duct Looking Down (Foreign material)

# VENT SYSTEM 3-65-2, RECIRC RETURN

JSN: ER04 P237

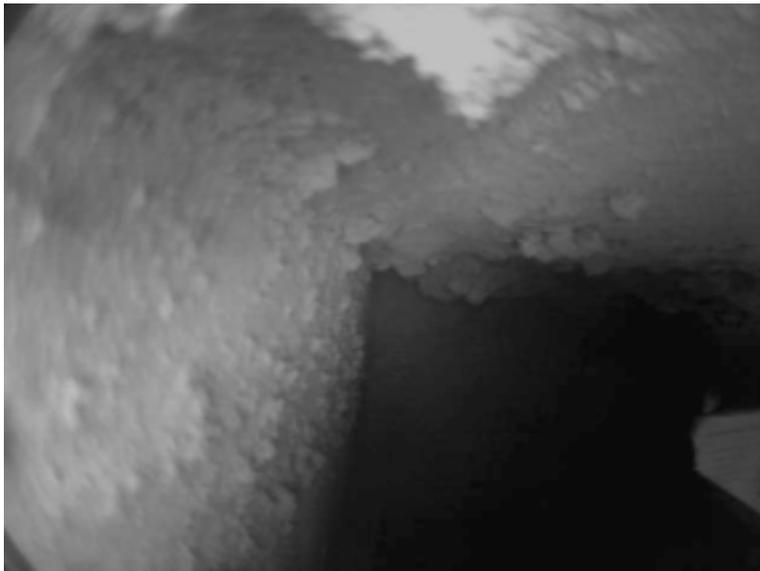
System Recommended for Cleaning

CREW BERTHING (3-52-0-L)



3 FT Inside Duct Looking Down (Foreign material)

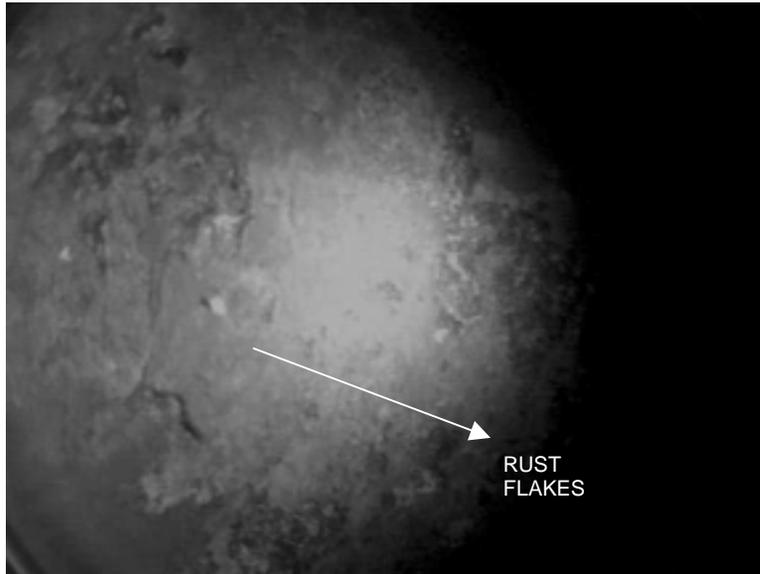
CREW BERTHING (3-52-0-L)



2 FT Inside Duct Looking Down (Foreign material)

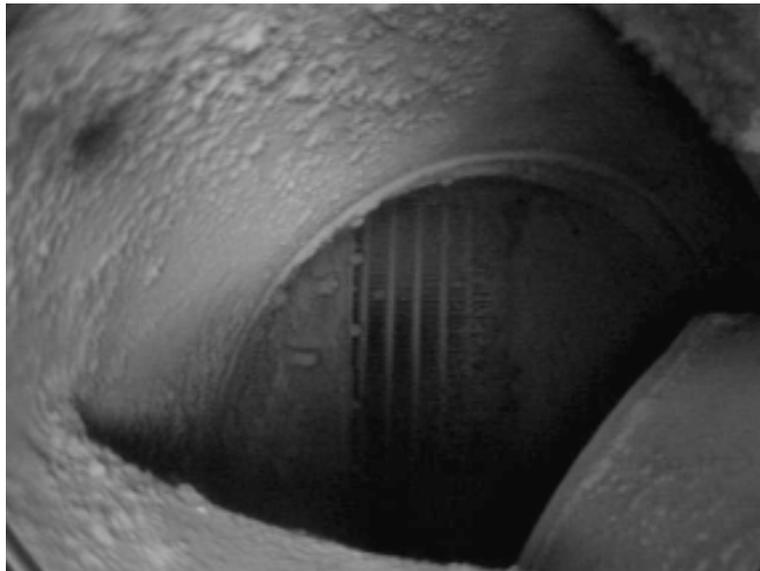
**VENT SYSTEM**  
**3-65-2, RECIRC SUPPLY**  
JSN: ER04 P238  
System Recommended for Cleaning

CREW BERTHING (3-64-0-Q)



5 FT Inside Duct Looking Down (Foreign material)

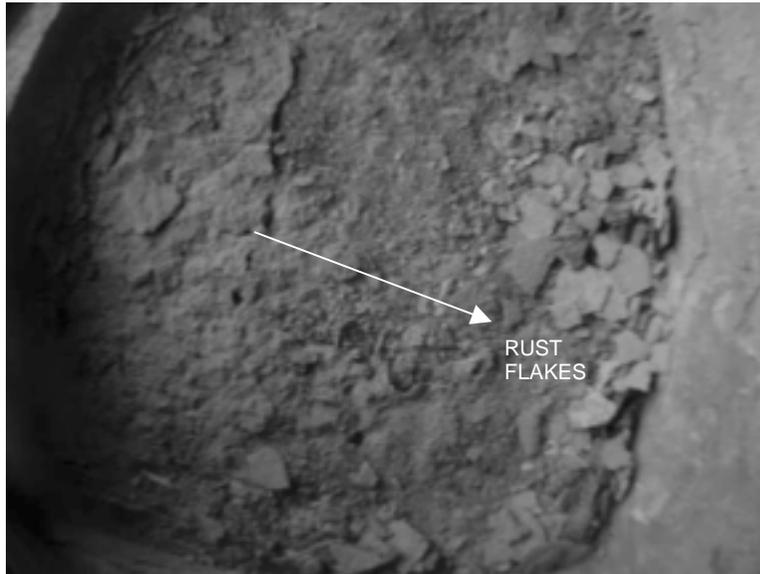
CREW BERTHING (3-64-0-Q)



2 FT Inside Duct Looking Up (Foreign material)

**VENT SYSTEM**  
**3-206-1, SUPPLY**  
JSN: ER04 P236  
System Recommended for Cleaning

TROOP BERTHING (2-100-1-L)



5 FT Inside Plenum Chamber Looking Down (Foreign material)

TROOP BERTHING (2-100-1-L)



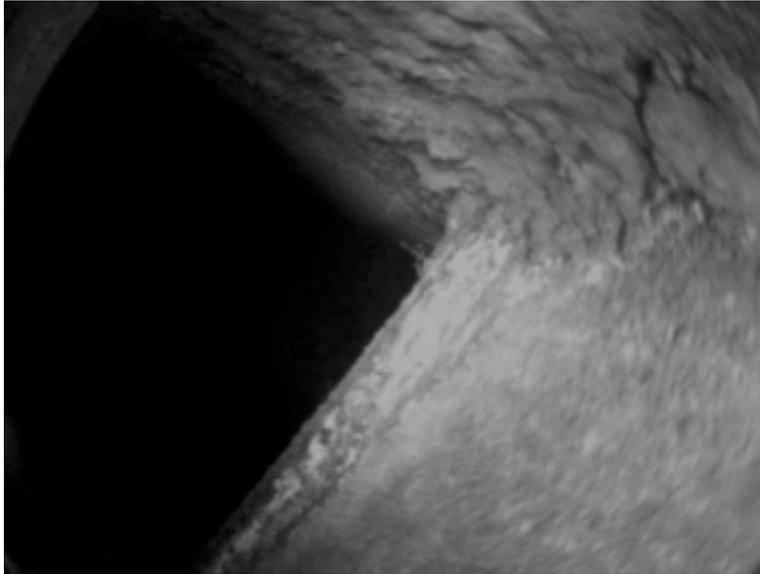
6 FT Inside Plenum Chamber Looking Down (Foreign material)

# VENT SYSTEM 4-54-1, SUPPLY

JSN: ER04 P235

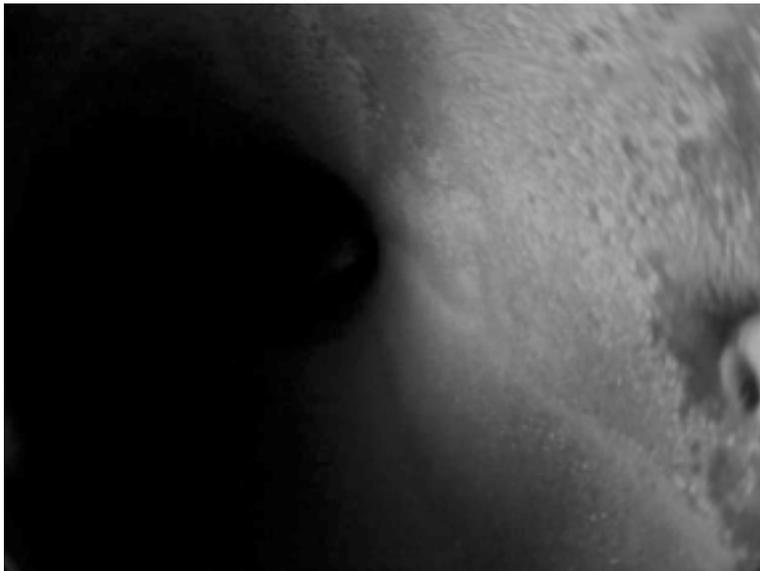
System Recommended for Cleaning

EMER GENERATOR ROOM 1 (4-52-1-E)



8 FT Inside Duct Looking Forward (Foreign material)

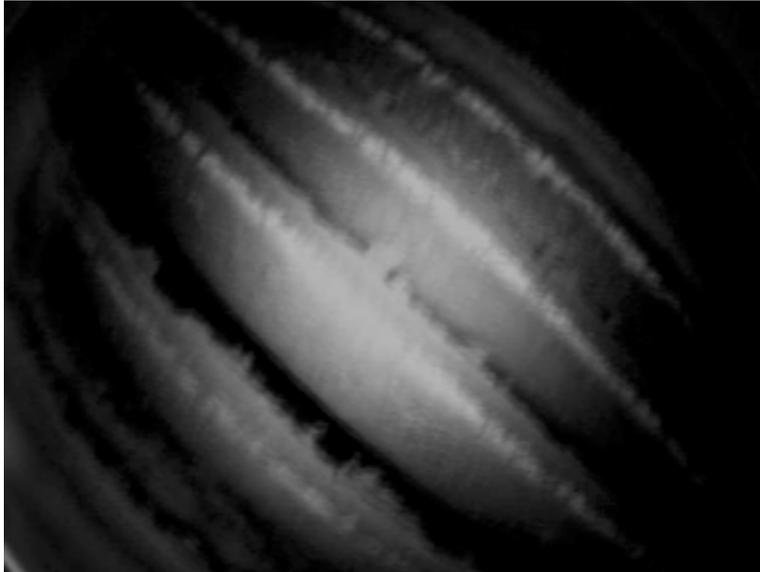
EMER GENERATOR ROOM 1 (4-52-1-E)



5 FT Inside Duct Looking Forward (Foreign material)

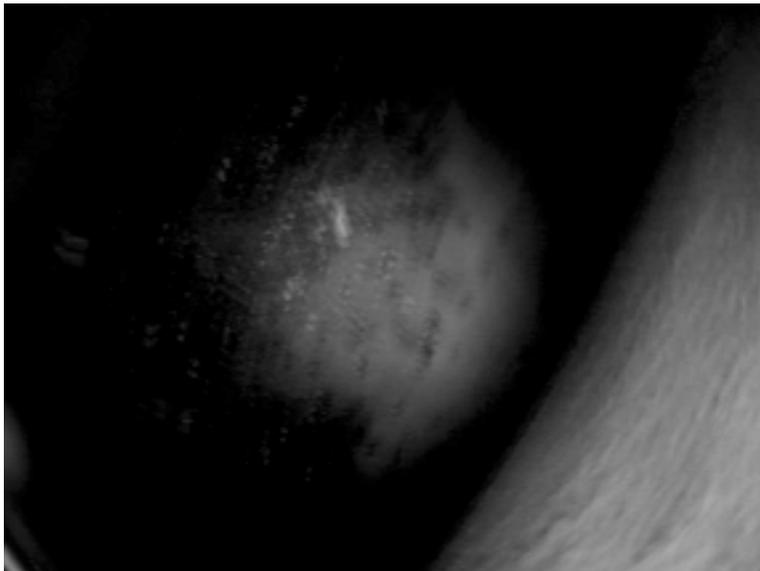
**VENT SYSTEM**  
**4-54-3, EXHAUST**  
JSN: ER04 P241  
System Recommended for Cleaning

CREW BERTHING (3-52-0-L)



8 FT Inside Duct Looking Down at Baffles (Foreign material)

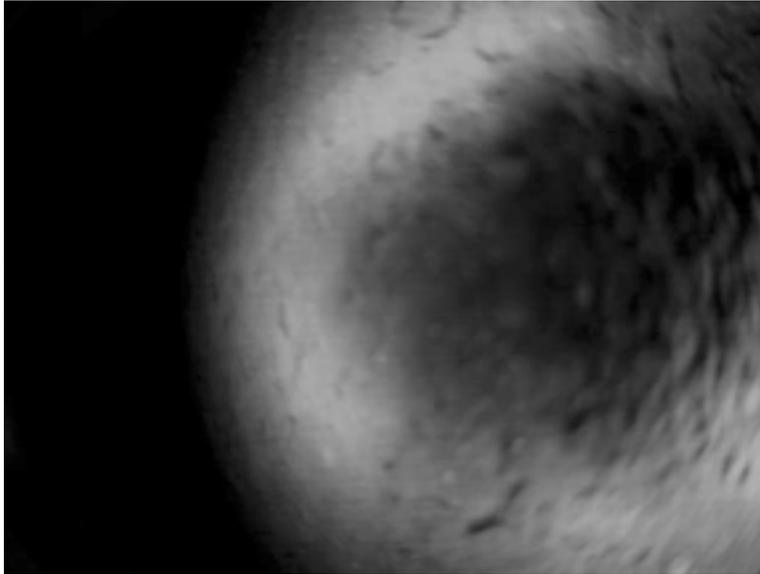
CREW BERTHING (3-52-0-L)



3 FT Inside Duct Looking Down (Foreign material)

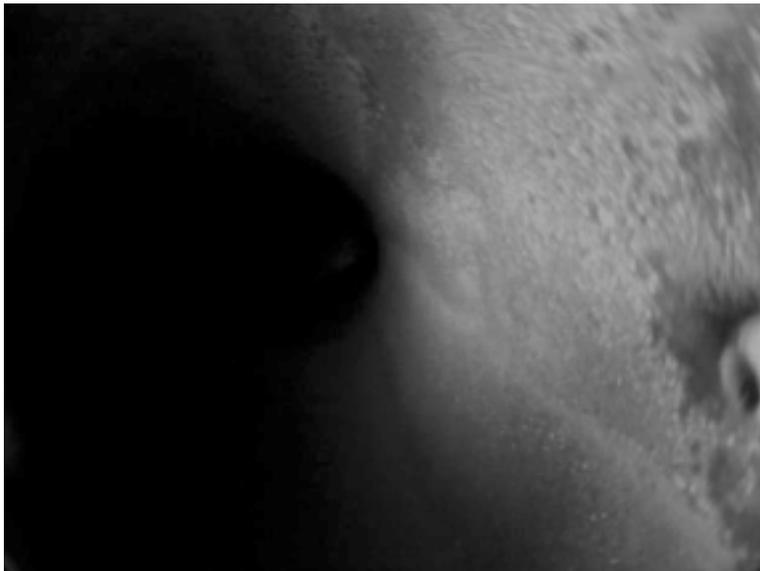
**VENT SYSTEM**  
**4-122-2, SUPPLY**  
JSN: ER04 P255  
System Recommended for Cleaning

MAIN MACHINERY ROOM 1 (7-120-0-E)



10 FT Inside Duct Looking Aft(Foreign material)

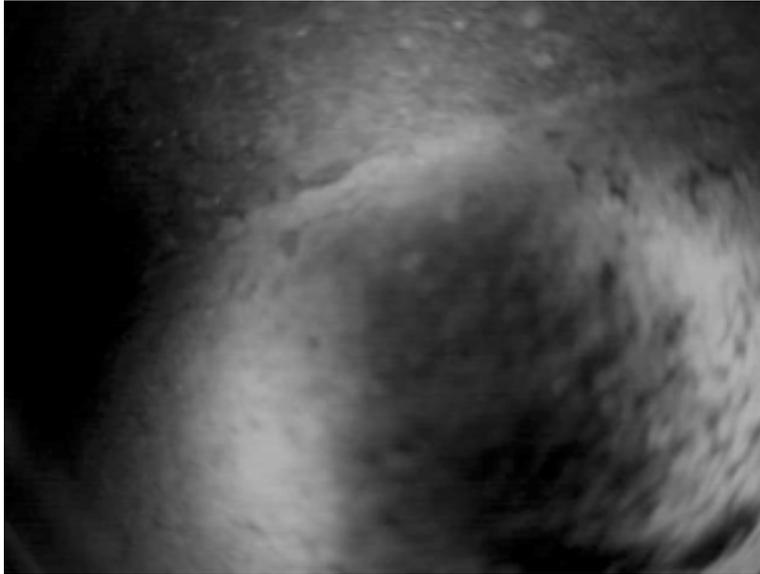
MAIN MACHINERY ROOM 1 (7-120-0-E)



6 FT Inside Duct Looking Aft (Foreign material)

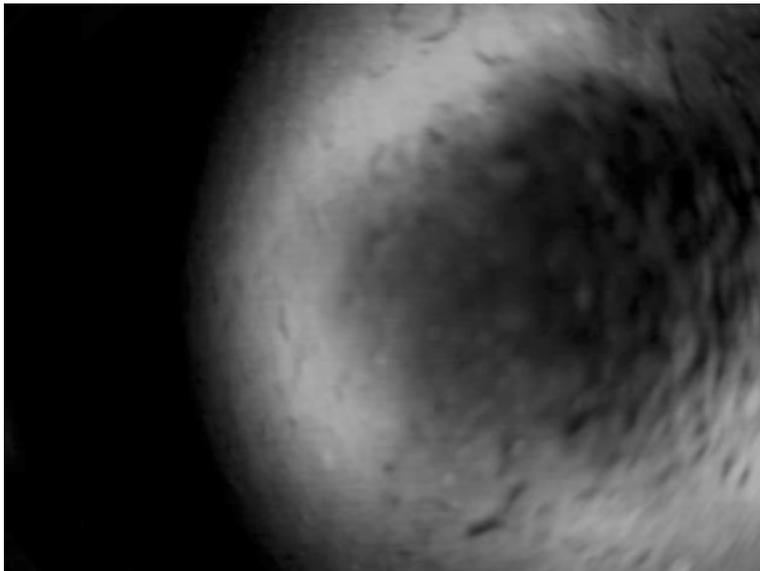
**VENT SYSTEM**  
**4-122-4, SUPPLY**  
JSN: ER04 P256  
System Recommended for Cleaning

MAIN MACHINERY ROOM 1 (7-120-0-E)



12 FT Inside Duct Looking Forward (Foreign material)

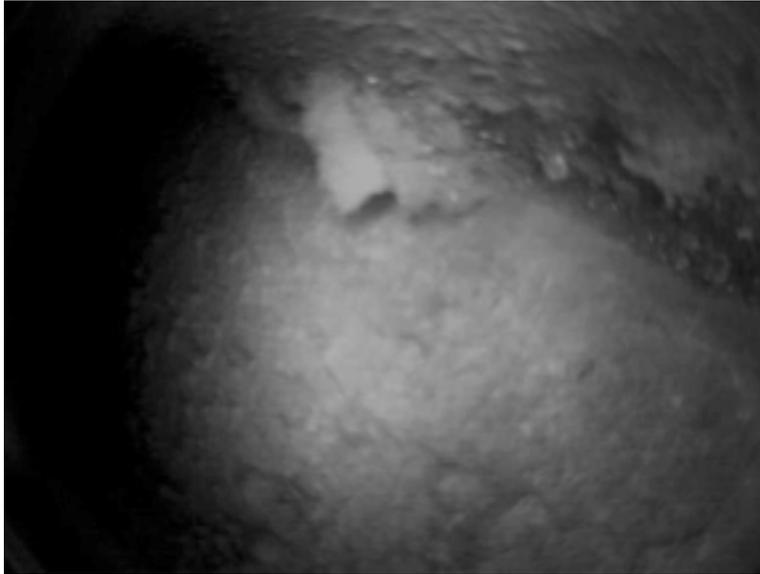
MAIN MACHINERY ROOM 1 (7-120-0-E)



8 FT Inside Duct Looking Forward (Foreign material)

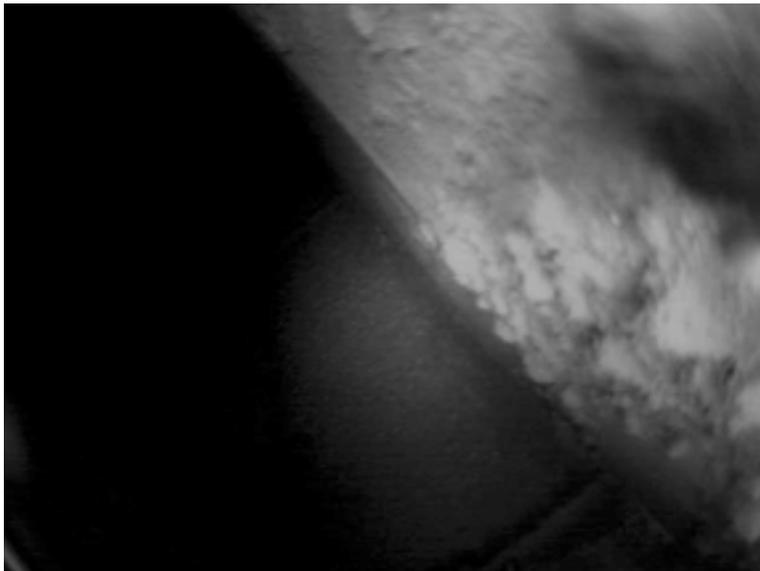
**VENT SYSTEM**  
**4-129-1, EXHAUST**  
JSN: ER04 P250  
System Recommended for Cleaning

MAIN MACHINERY ROOM 1 (7-120-0-E)



10 FT Inside Duct Looking Aft (Foreign material)

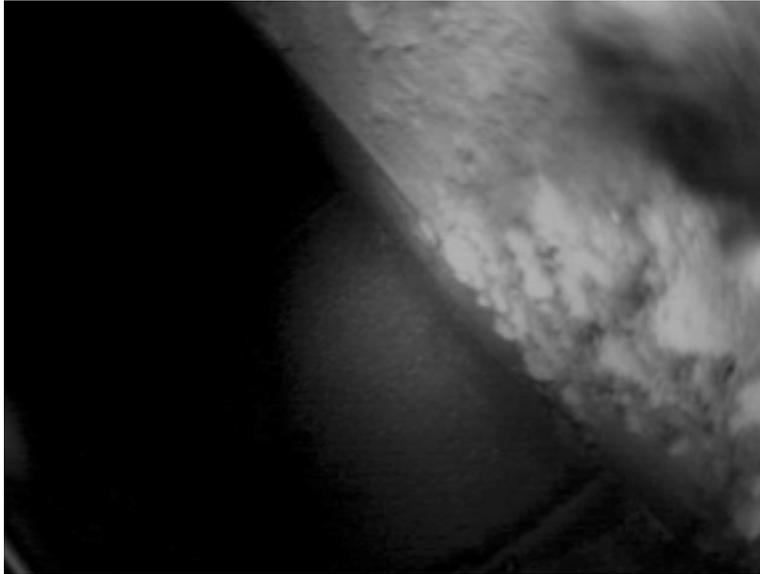
MAIN MACHINERY ROOM 1 (7-120-0-E)



6 FT Inside Duct Looking Aft (Foreign material)

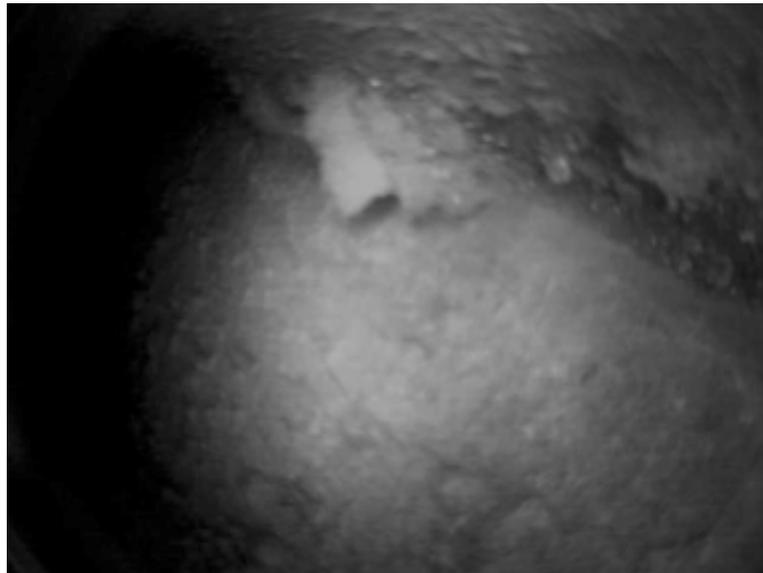
**VENT SYSTEM**  
**4-129-3, EXHAUST**  
JSN: ER04 P252  
System Recommended for Cleaning

MAIN MACHINERY ROOM 1 (7-120-0-E)



7 FT Inside Duct Looking Forward (Foreign material)

MAIN MACHINERY ROOM 1 (7-120-0-E)



4 FT Inside Duct Looking Forward (Foreign material)