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DSWA ltr., 10 Apr 97; DSWA ltr., 10 Apr 97

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REC RESEARCH AND DEVELOPMENT REPORT

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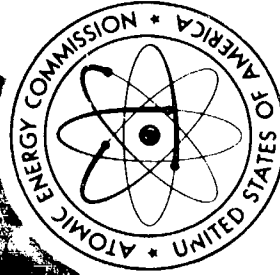
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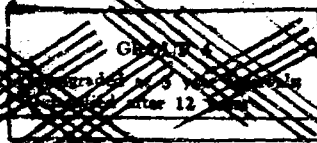


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BUREAU OF SHIPS GROUP 48

TECHNICAL INSPECTION REPORT



U.S.S. ARKANSAS (BB33)

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TEST ABLE

GROUP 3
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VOLUME 2 OF 2

changed from RDT to DT by CS 11-23-58

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Classification (changed to Security Information
by Authority of JOINT CHIEFS OF STAFF JCS 1780/56 DATED 16 APRIL 1969
By Don A. Walker Date MAY 16 1982

BA-CR-198-166-31. View from dead ahead before Test A.

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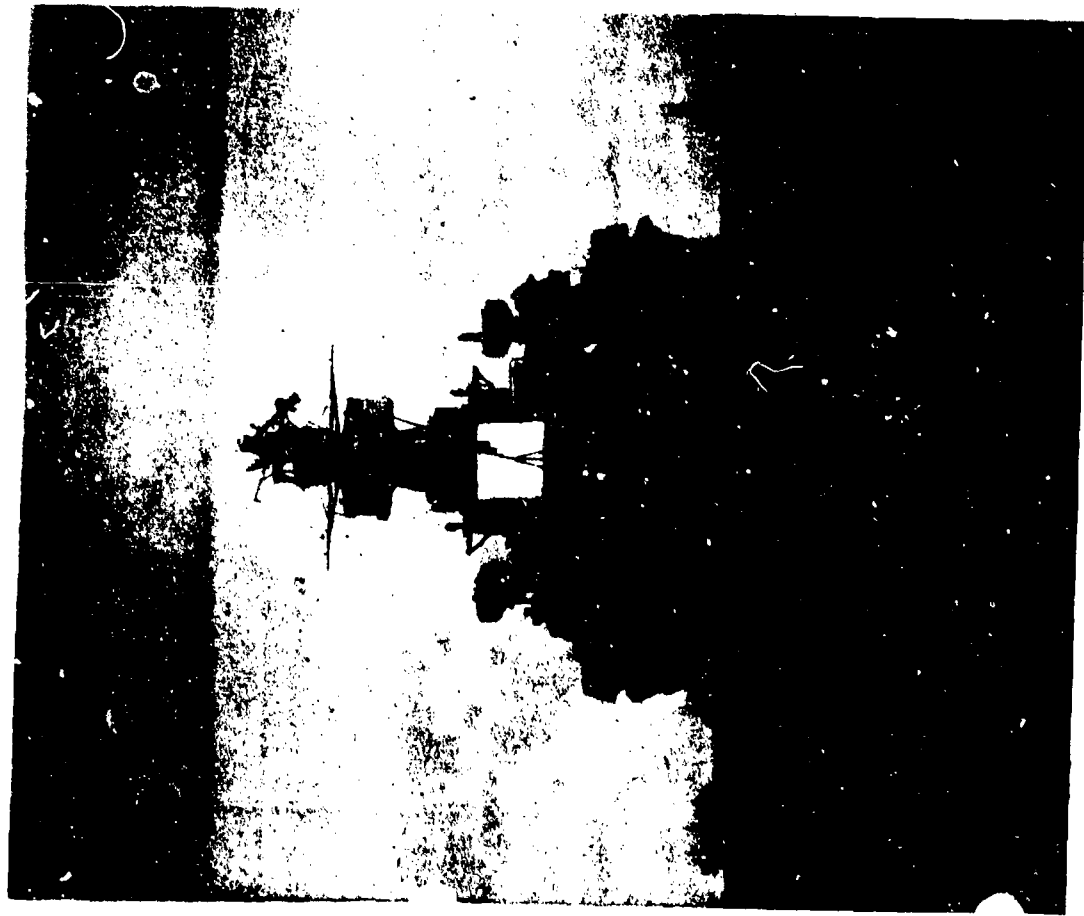
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Classification (Cancelled) - Characterized as security-sensitive

R. G. G. G.

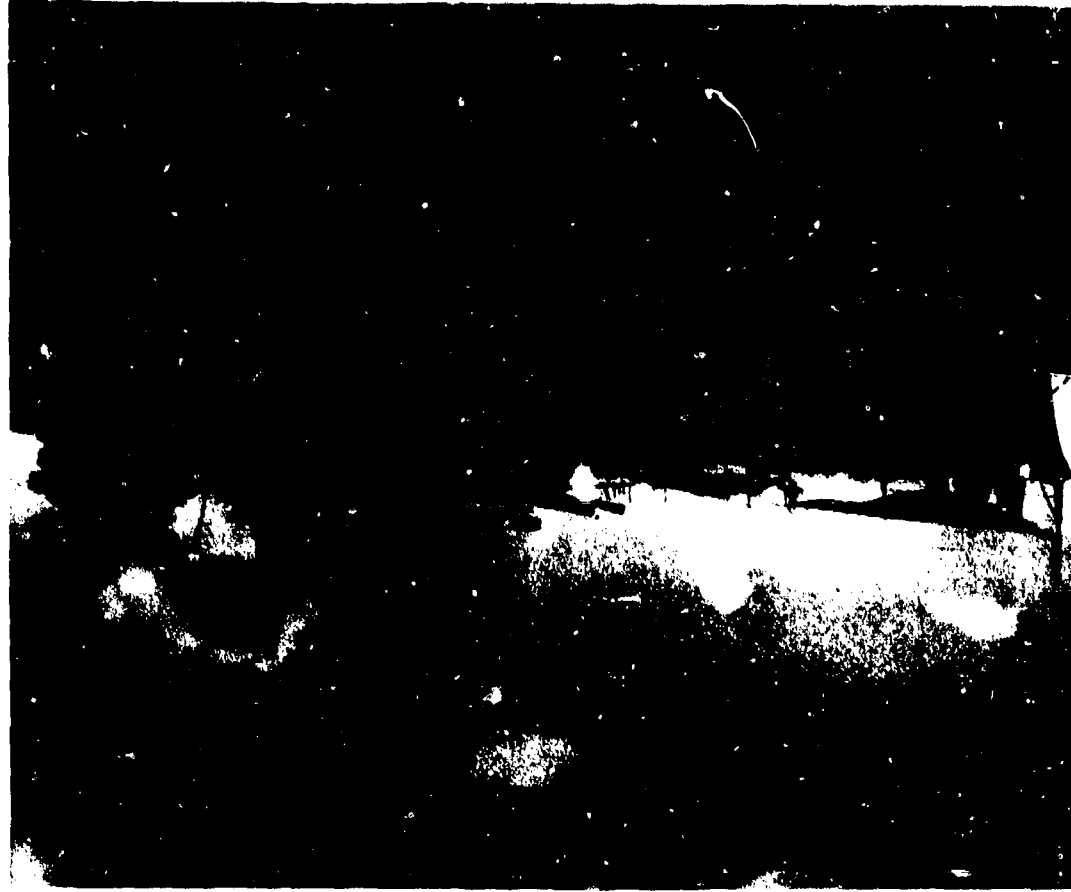


AA-CR-227-91-43. View from dead ahead after Test A.

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ATOMIC ENERGY ACT 1946

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By *John A. Lytle* Date *May 16 1952*

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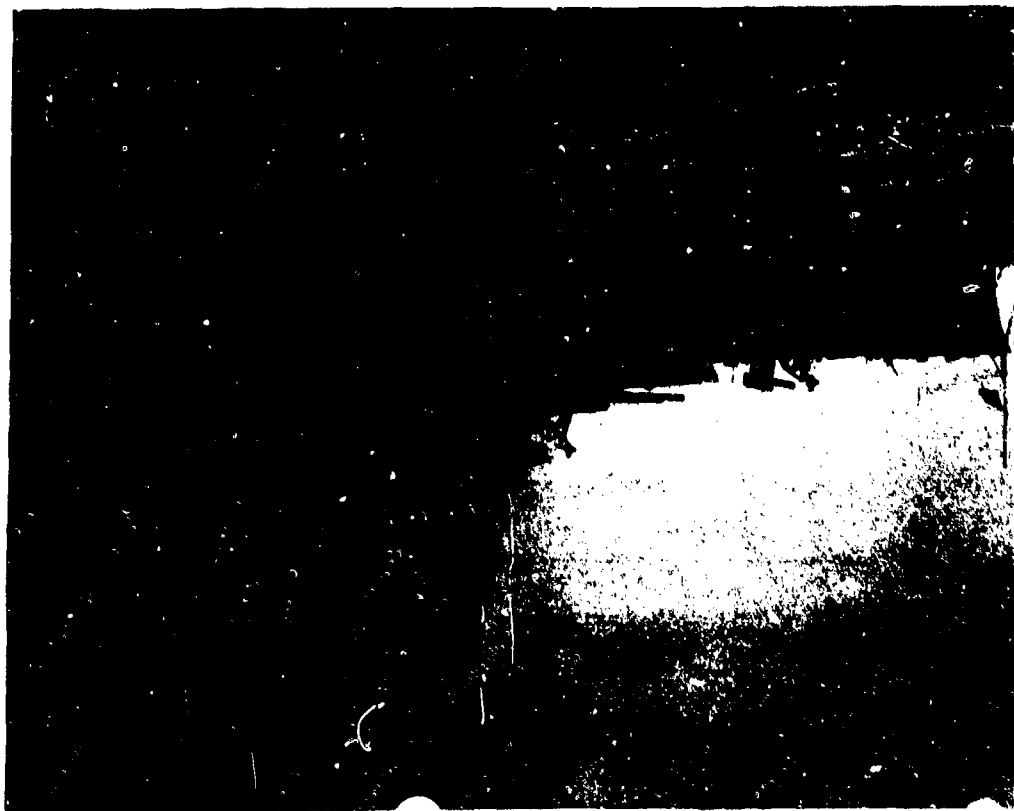


BA-CR-198-186-32. View from port bow before Test A.

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AA-CR-227-91-44. View from port bow after Test A.

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BA-CR-166-166-33. View from port beam before Test A.

~~SECRET~~



AA-CR-227-81-45. View from port beam after Test A.

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BA-CR-186-166-34. View from port quarter before Test A.

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AA-CR-227-81-38. View from port quarter after Test A.

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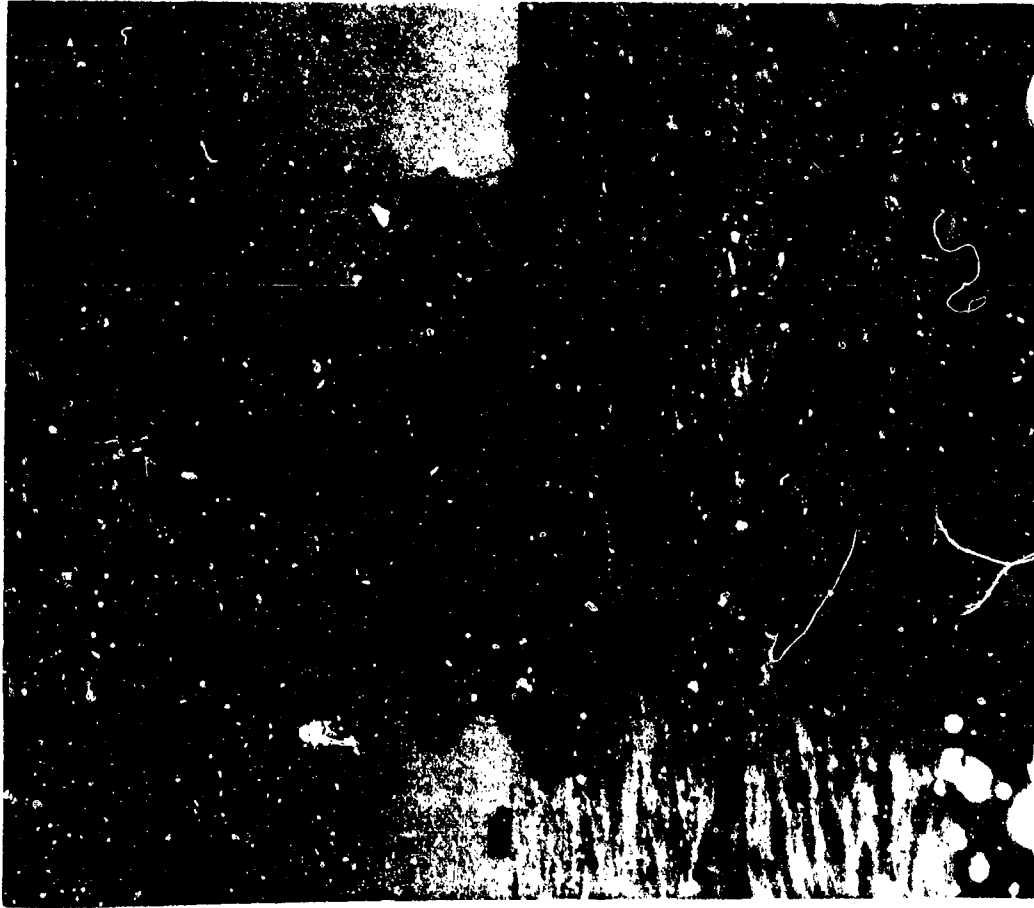


BA-CR-198-168-29. View from off stern before Test A.

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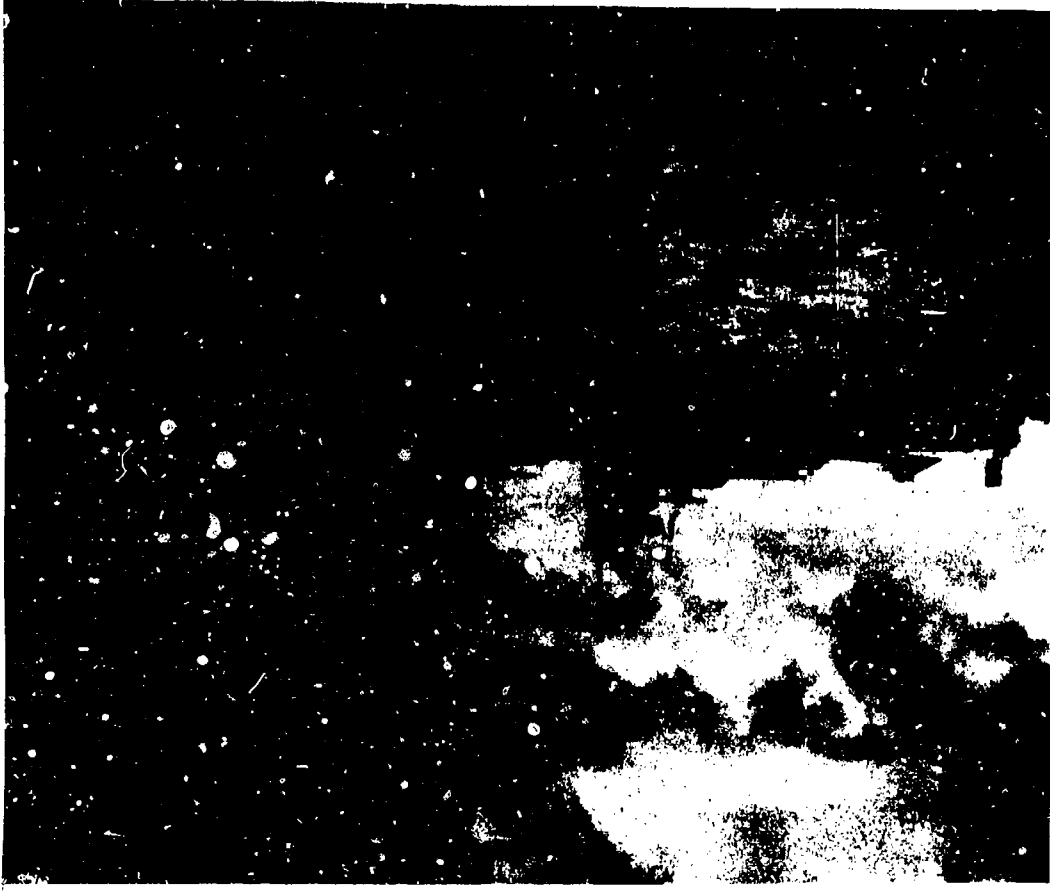


AA-CR-227-91-39. View from dead astern after Test A.

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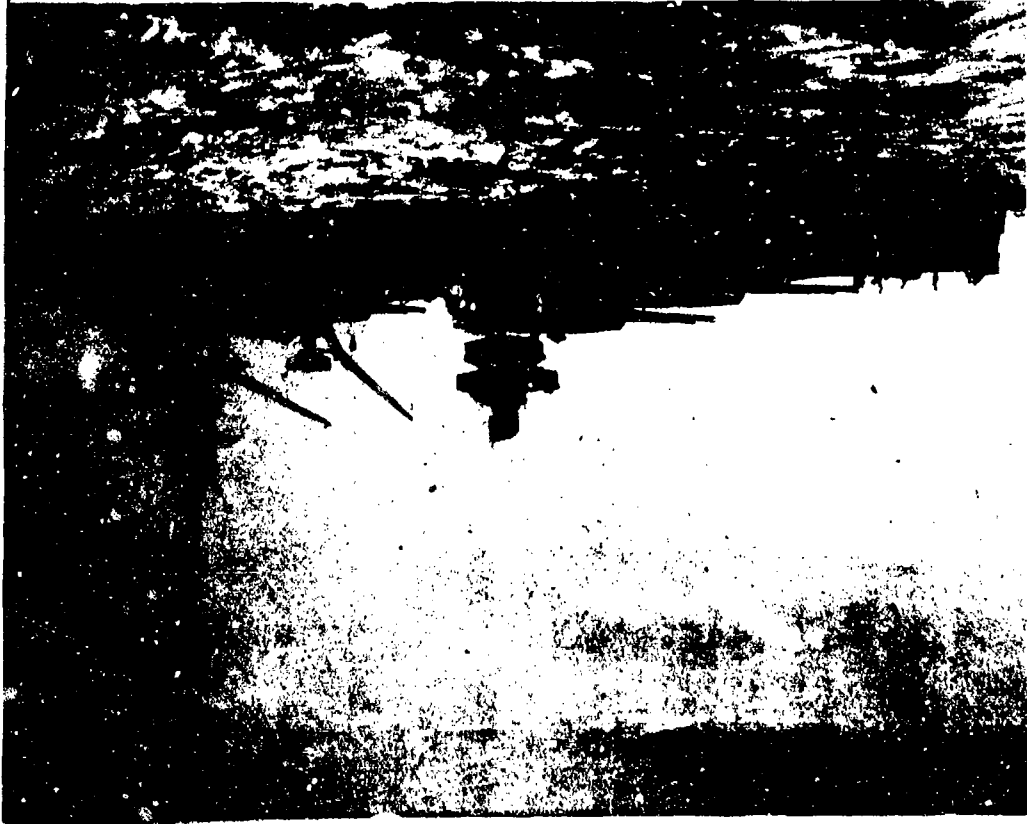


BA-CR-196-186-28. View from starboard quarter before Test A.

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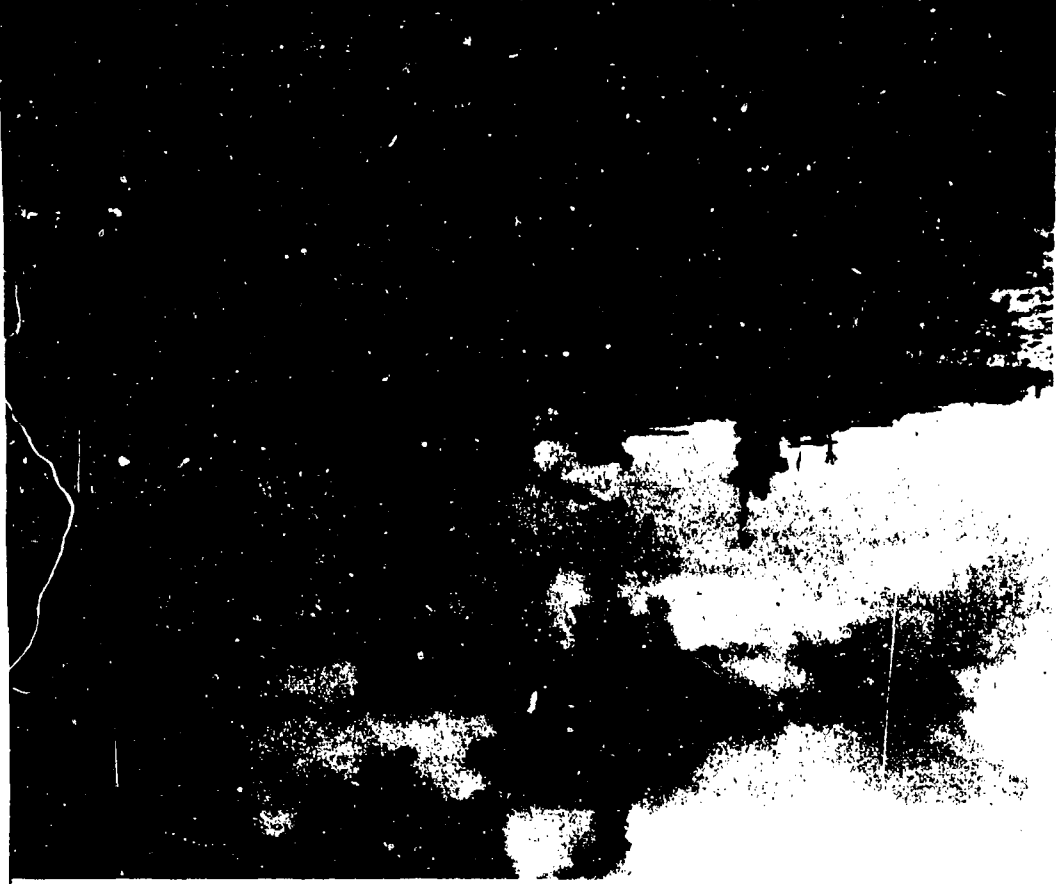
AA-CR-227-91-40. View from starboard quarter ~~star~~ Test A.

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BA-CR-196-166-27. View from starboard beam before Test A.

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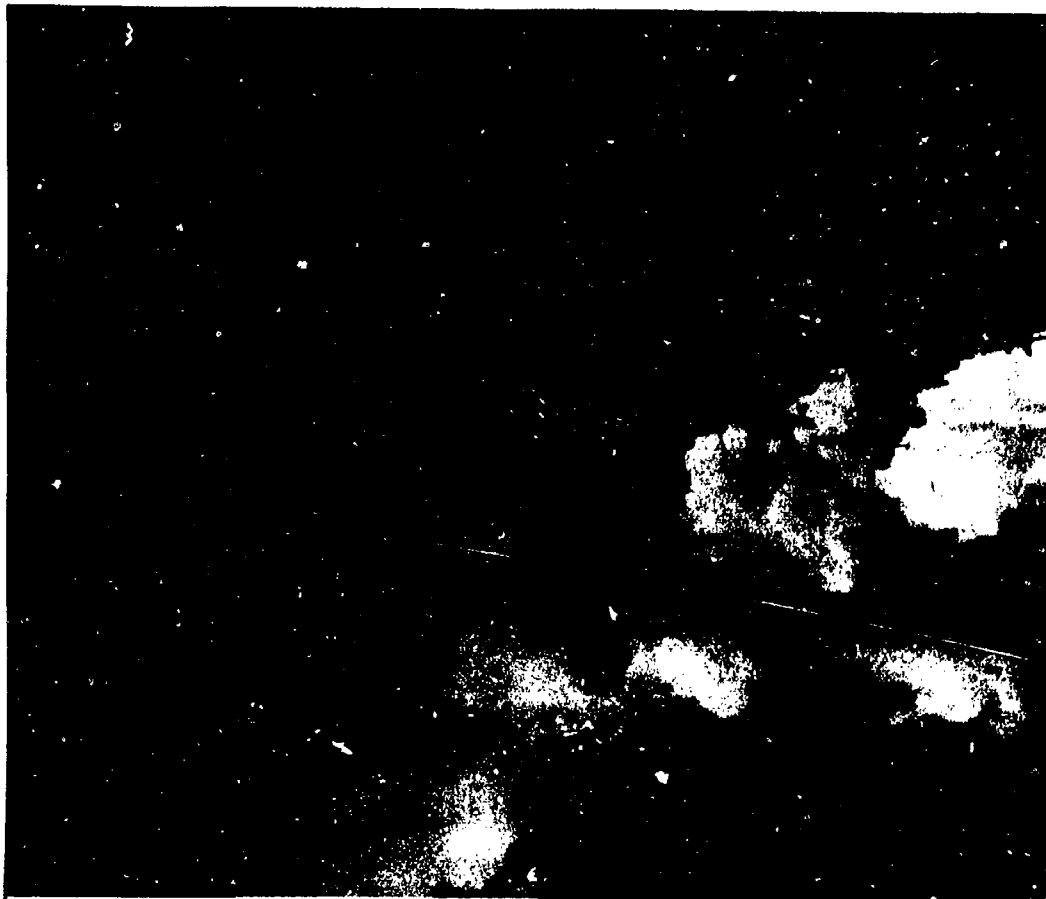


AA-CR-227-91-41. View from starboard beam after Test A.

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BA-CR-196-166-30. View from starboard bow before Test A.

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AA-CR-227-91-42. View from starboard bow after Test A.

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AA-CR-62-1861-1. Port side, bow to frame 102.

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AA-CR-82-1774-11. Close-up of port side, frames 30 to 100.

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AA-CR-82-1861-2. Port side, frame 38 to stern.

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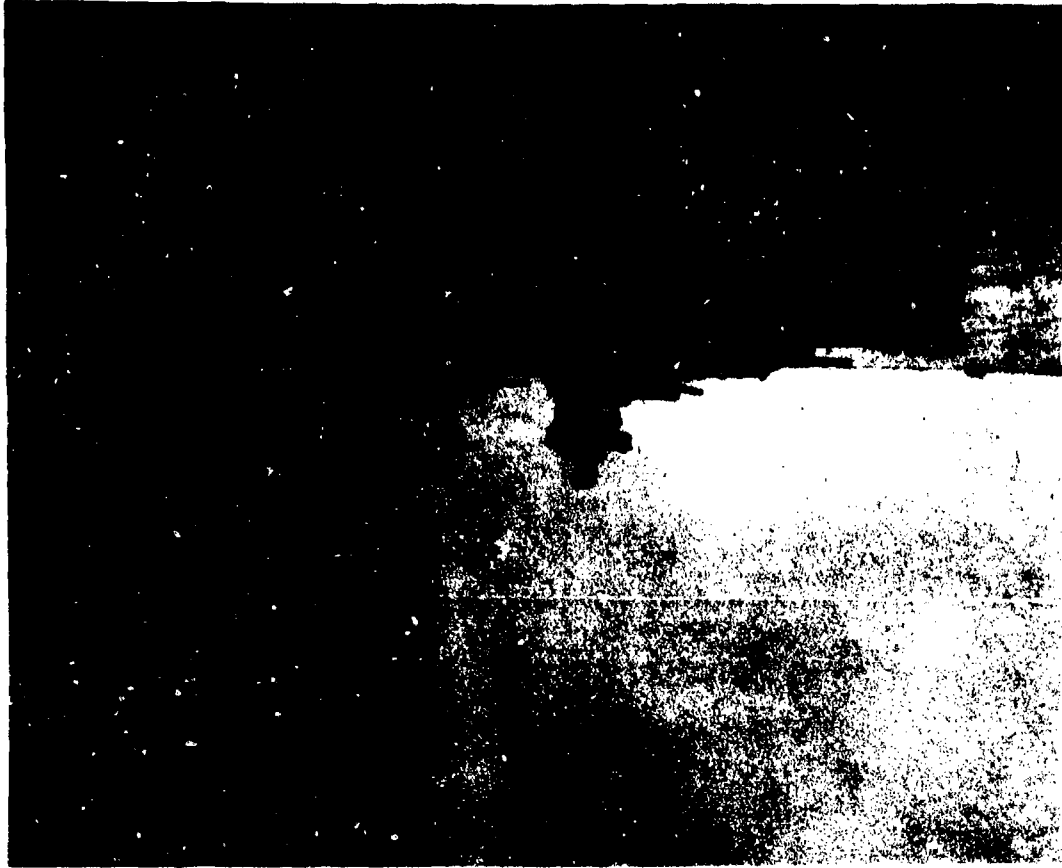


AA-CR-92-1774-12. Port side, frames 92 to 132.

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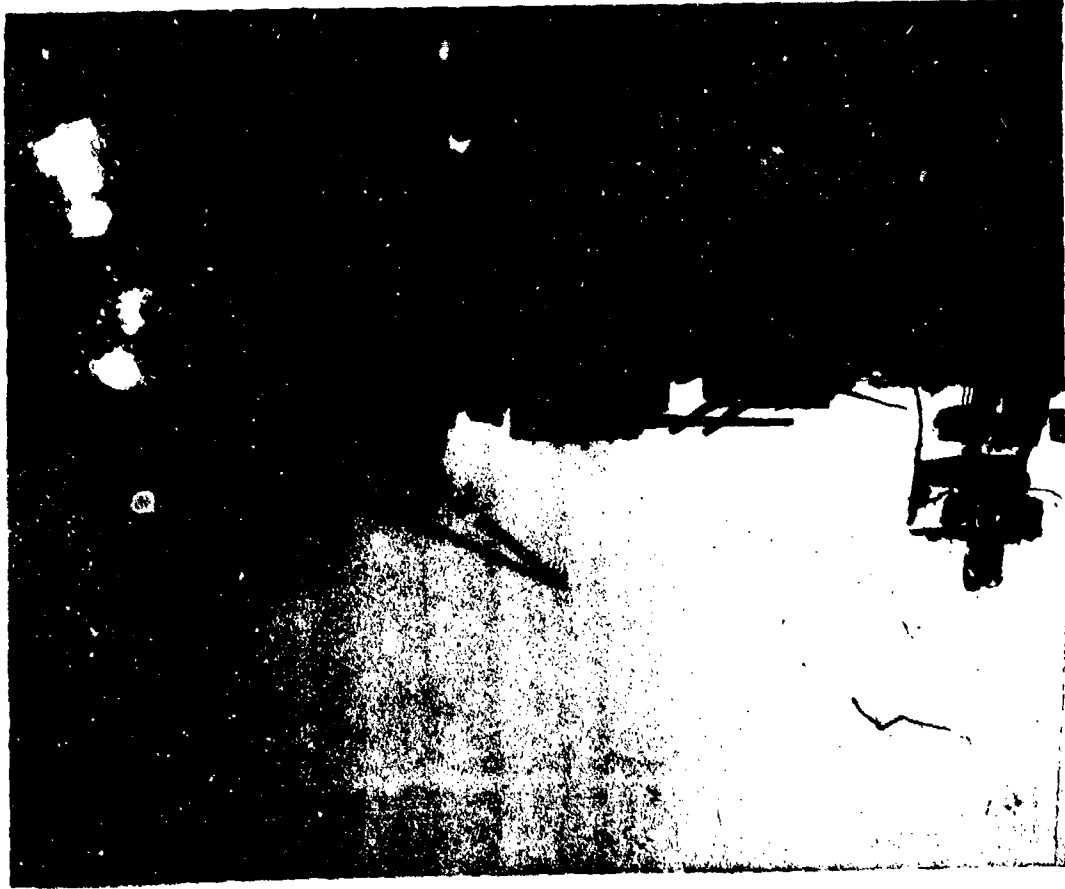


AA-CR-92-1774-6. Starboard quarter.

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AA-CR-92-1774-7. Starboard side, frames 30 to 110.

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AA-CR-92-1774-8. Starboard side, frame 10 to 60.

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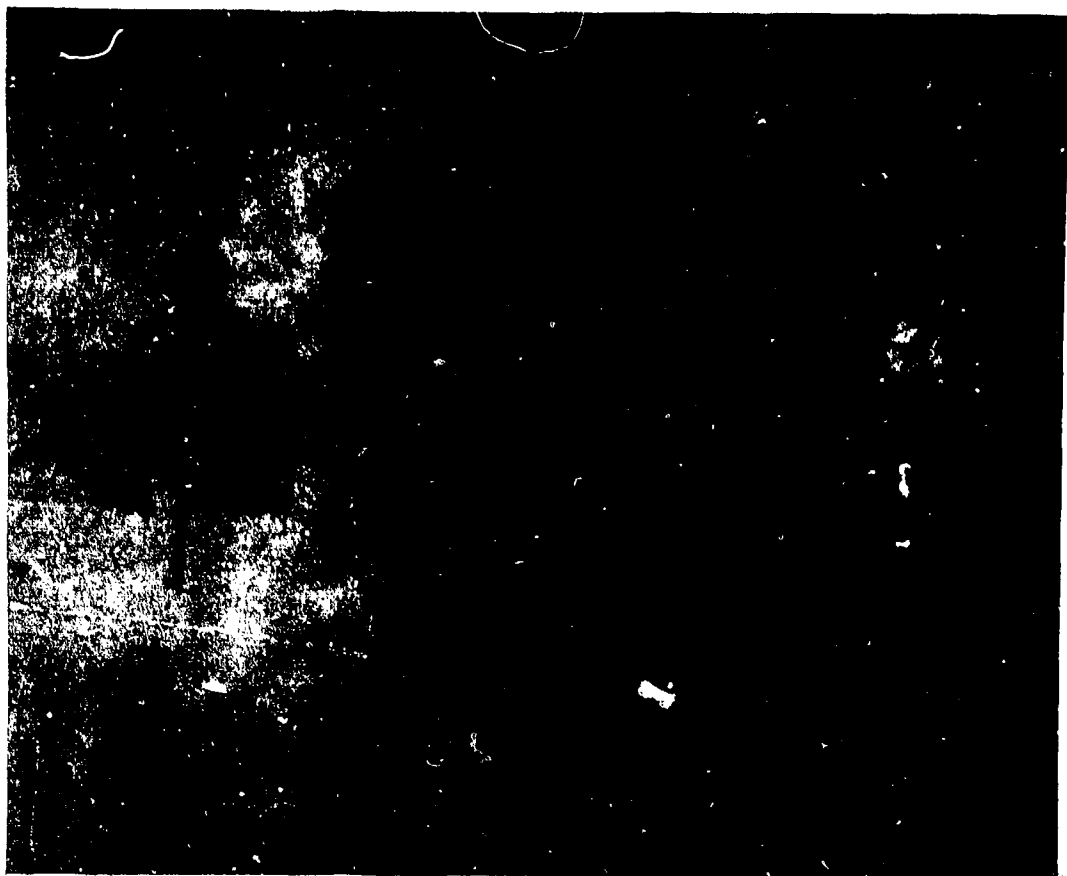


AA-CR-68-2091-3. View looking aft at forward superstructure showing S.K. radar mast and yardarms damaged.

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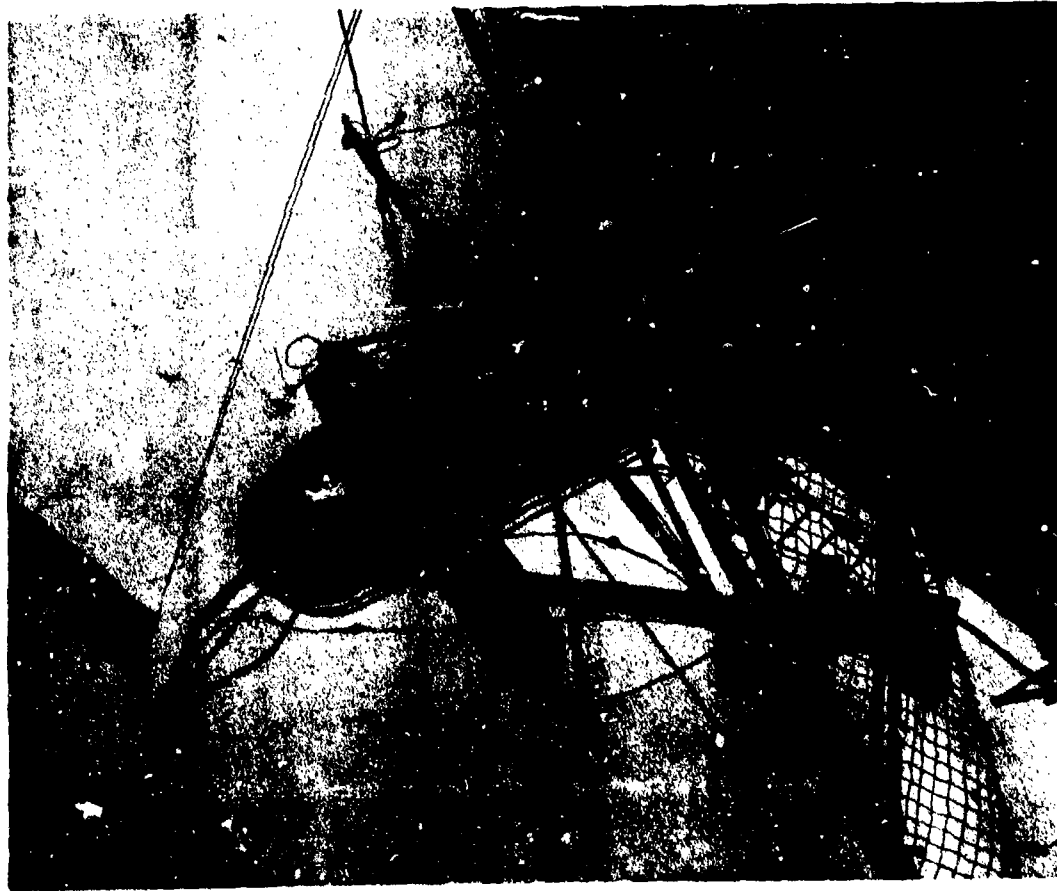


AA-CR-68-2097-3. General view looking forward from mainmast showing damage to foremast structure.

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AA-CR-68-2094-1. Forward yardarms, S.K. radar pole and platform on foremast.

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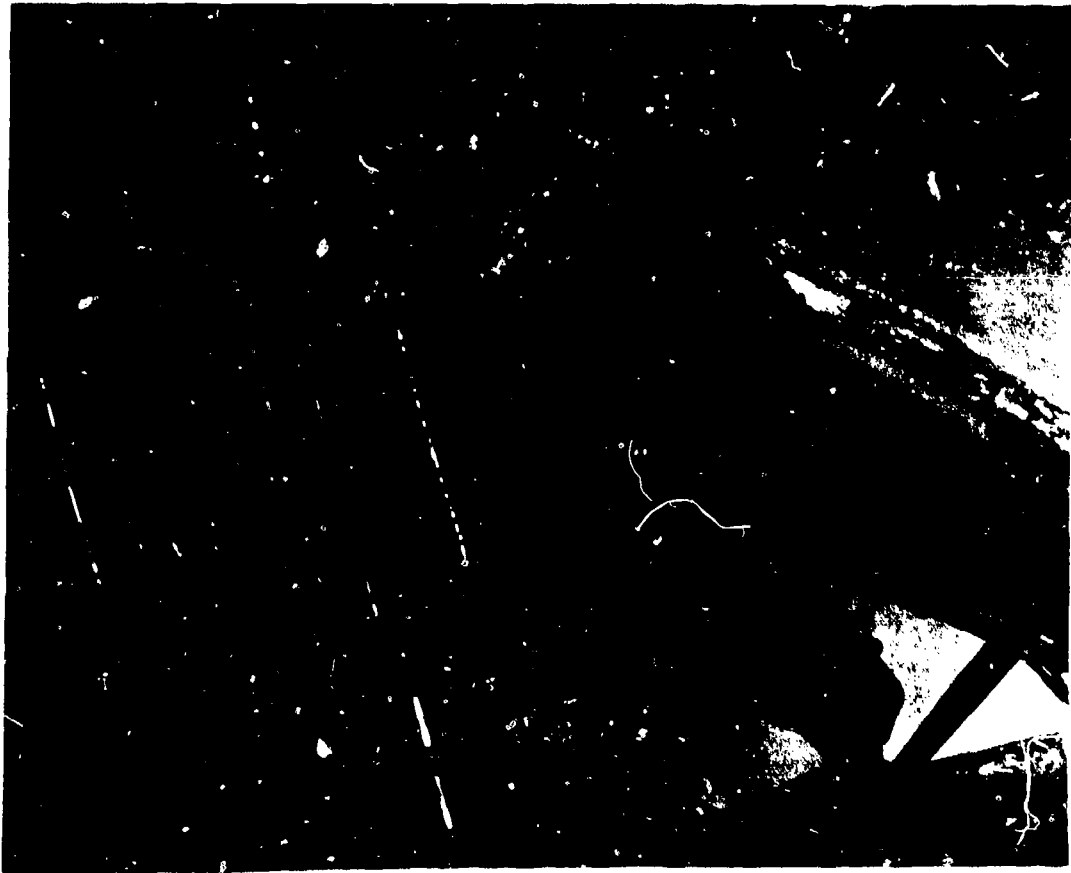


AA-CR-68-2094-2. Radar platform on forward tripod showing deformation of starboard wing and after section.

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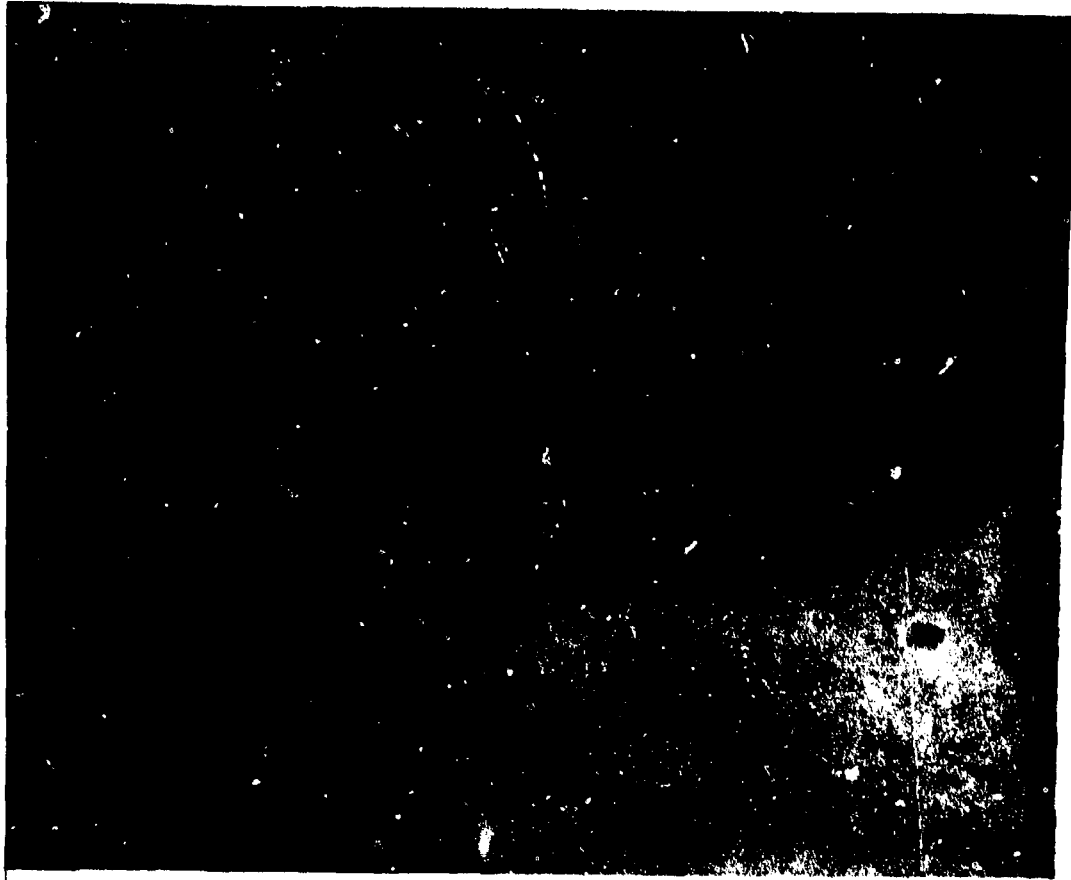
AA-CR-175-2135-6. Condition of underside of after part of radar platform on foremast. Note that horizontal cable runs show no signs of heat damage.

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AA-CR-88-2094-4. Looking to starboard at top of main battery director showing window pilasters.

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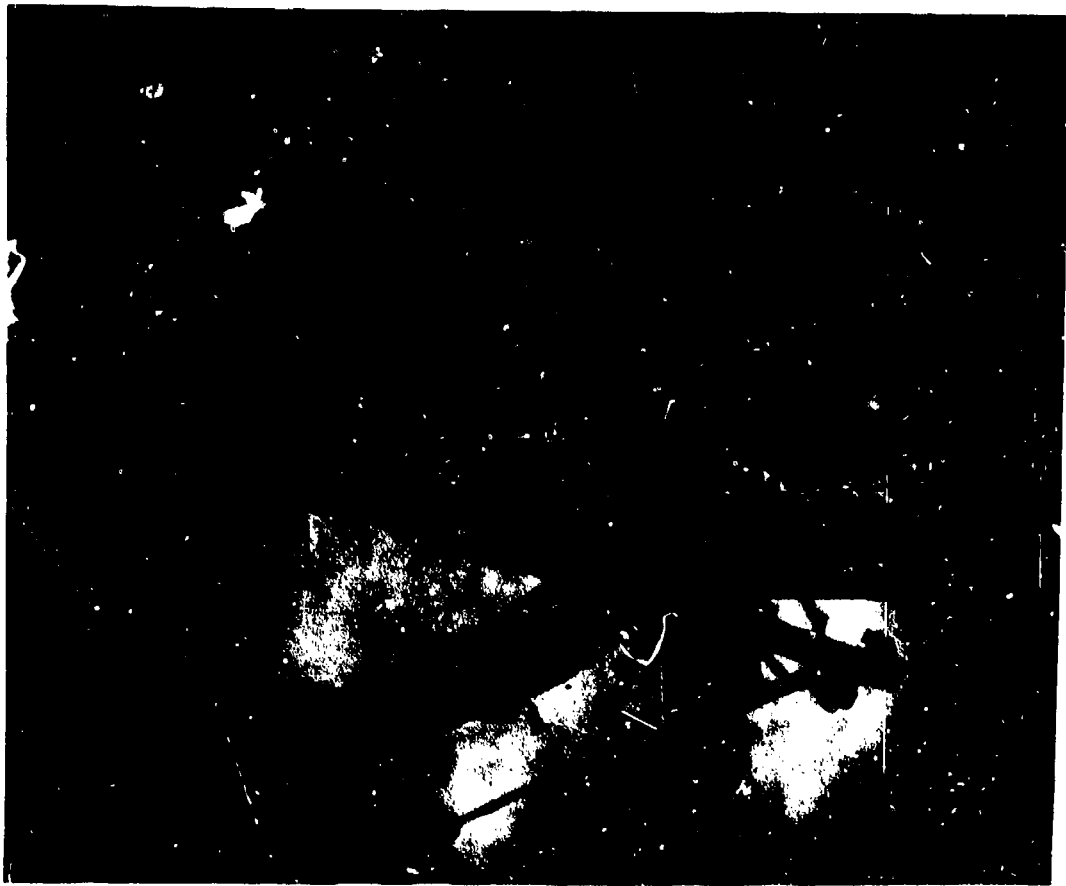
AA-CR-68-2091-1. Looking aft from frame 35, port, main deck at damage to foremast.

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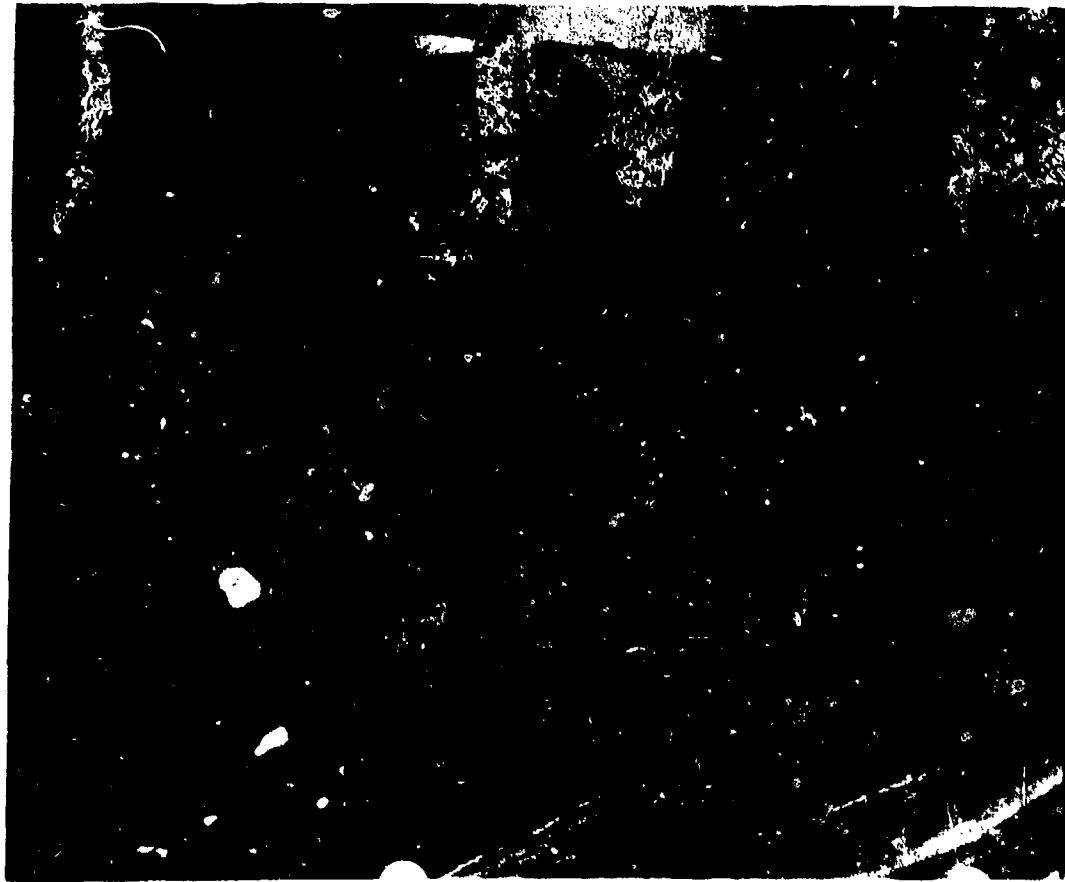
AA-CR-175-2135-4. Condition of pole mast supporting radar platform on foremast. Note beads of insulation protruding through cable armor.

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AA-CR-68-2094-2. Looking down on starboard side of top of fire control station, frame 48 to 51. Instrument panel blown down by blast from fire, side displaced in rack.

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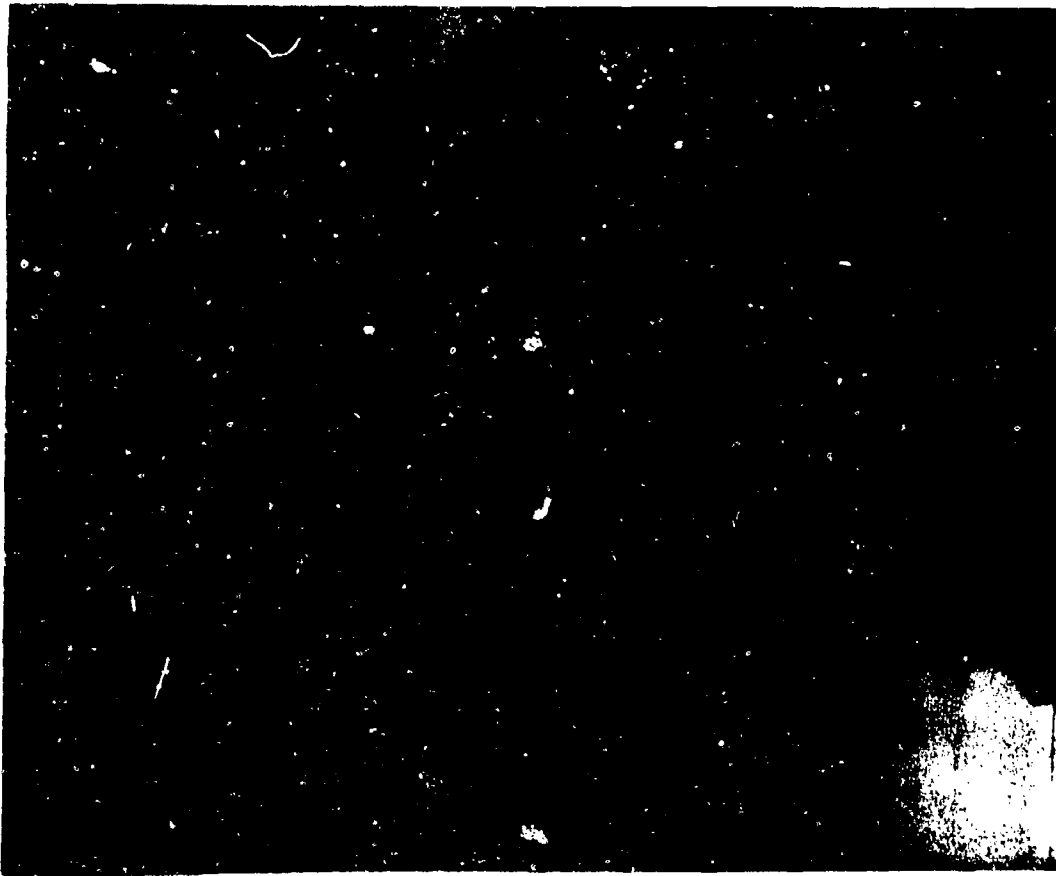
AA-CR-68-2094-5. Looking down on starboard side of fire control station.

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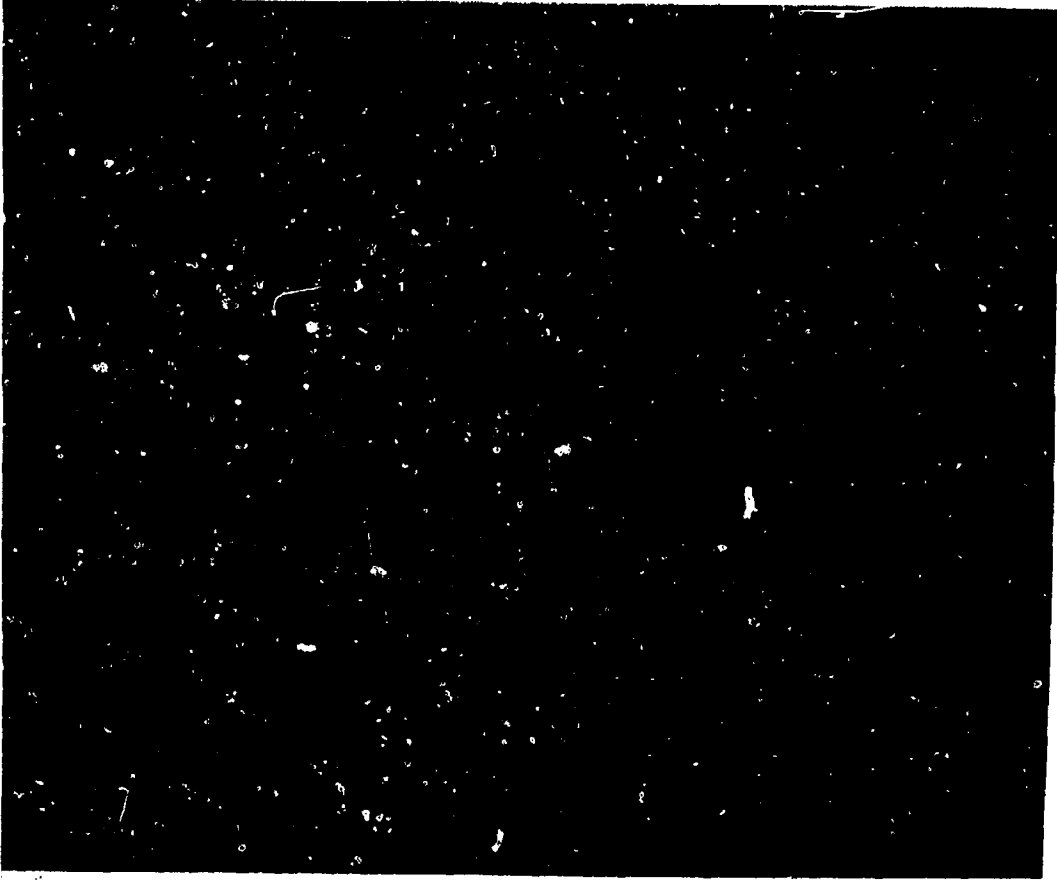
AA-CR-68-2095-1. Looking upward at bulwark on port side of the fire control station.

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AA-CR-68-2094-6. Looking outboard at starboard wing of top of fire control station.

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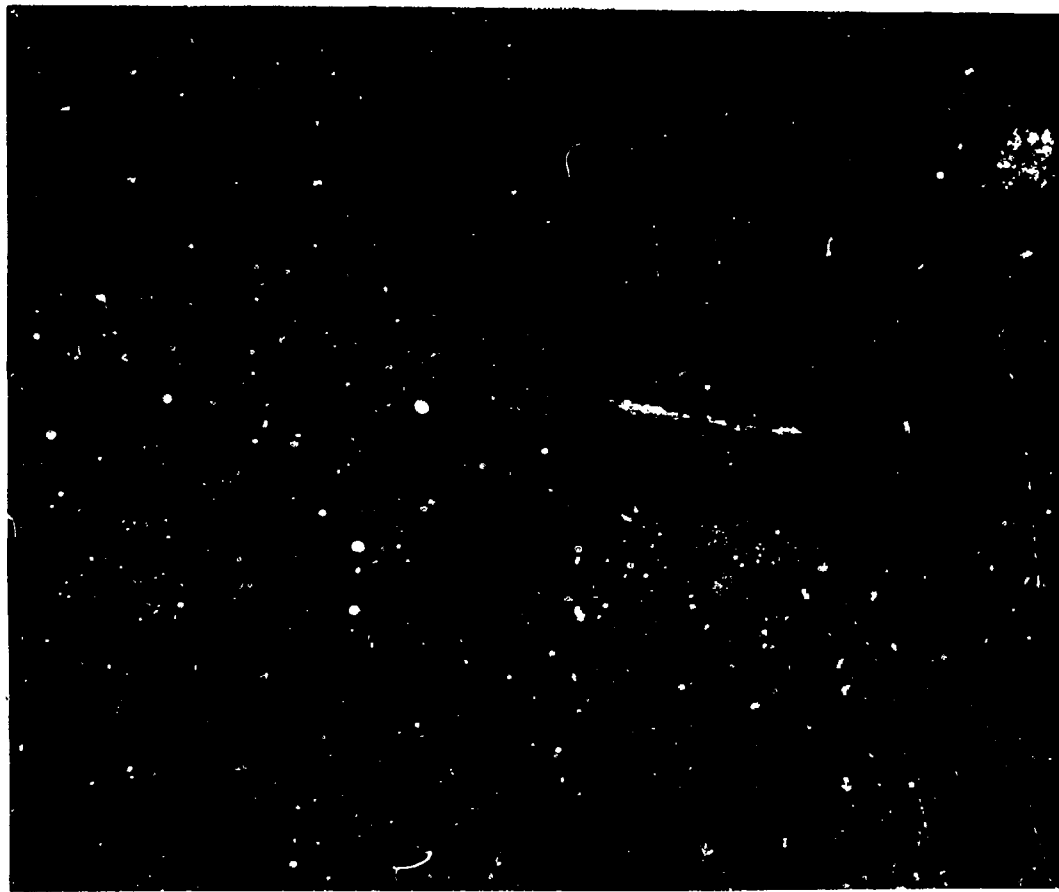


AA-CR-68-2095-9. Looking forward at after side of foremast showing rangefinder platform lifted by blast and louse distorted on navigation bridge level.

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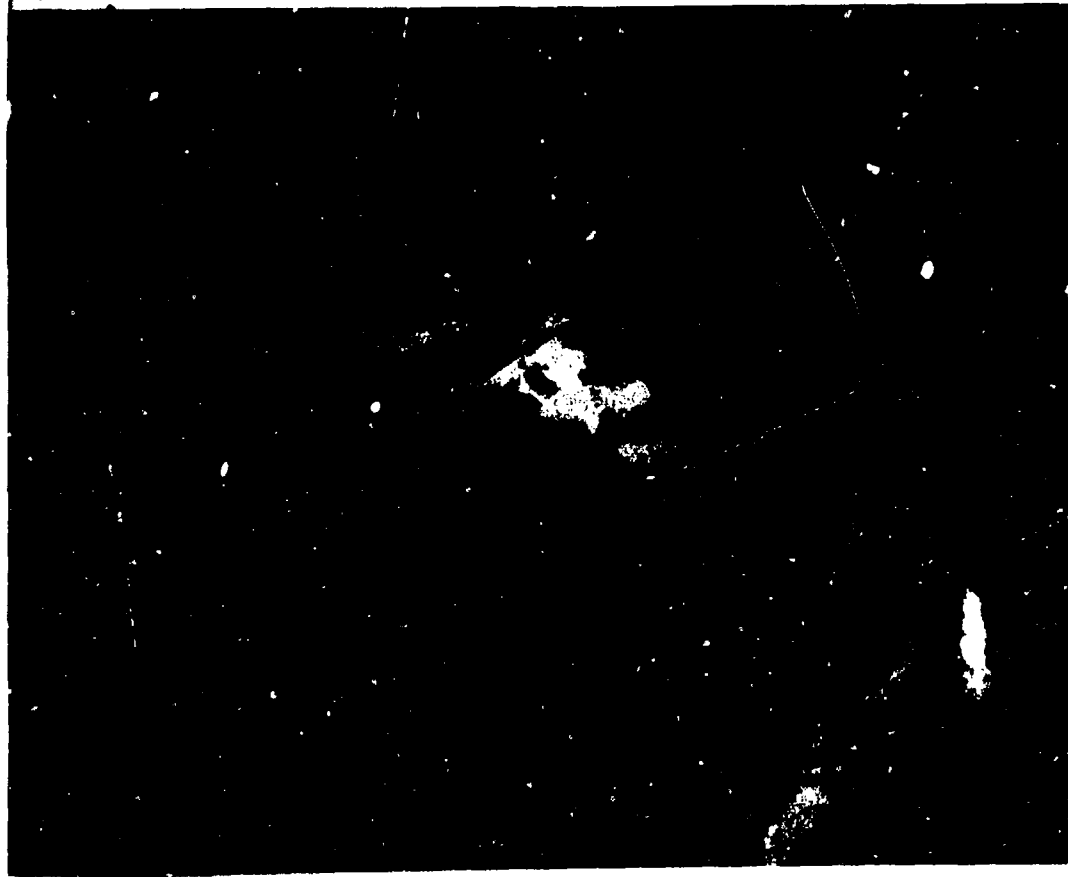


AA-CR-68-2094-11. Port tripod leg of foremast at connection of rangefinder platform supports.

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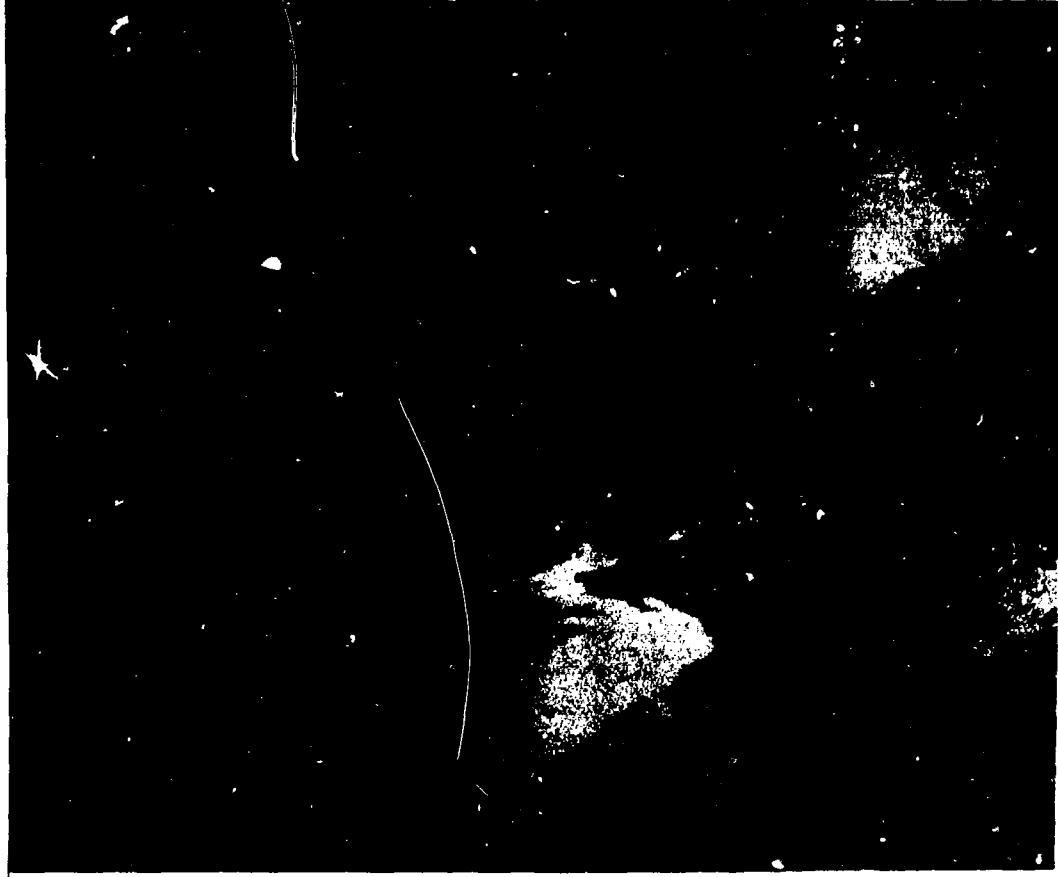
AA-CR-68-2084-10. Failure in port tripod leg of foremast at connection of rangefinder platform support.

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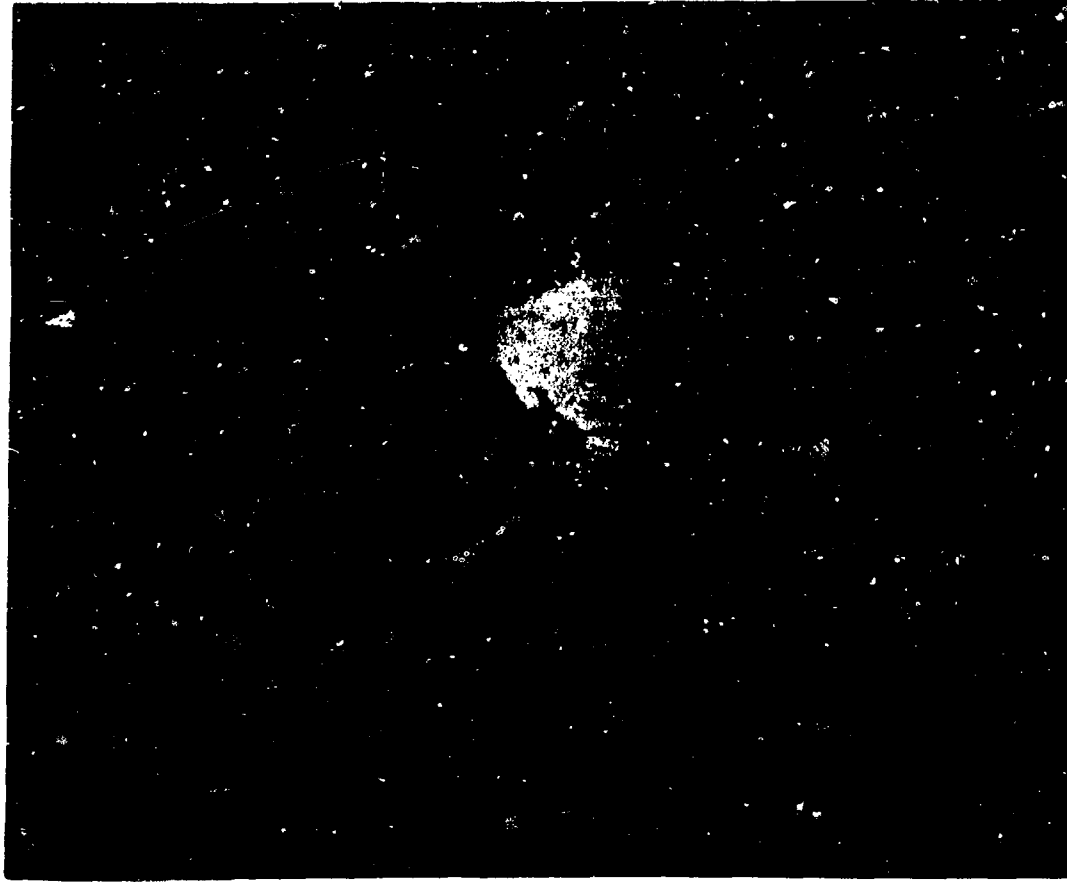
AA-CR-175-2135-3. Fracture of starboard foremast tripod leg in way of cantilever support for rangefinder platform, looking upward and outboard.

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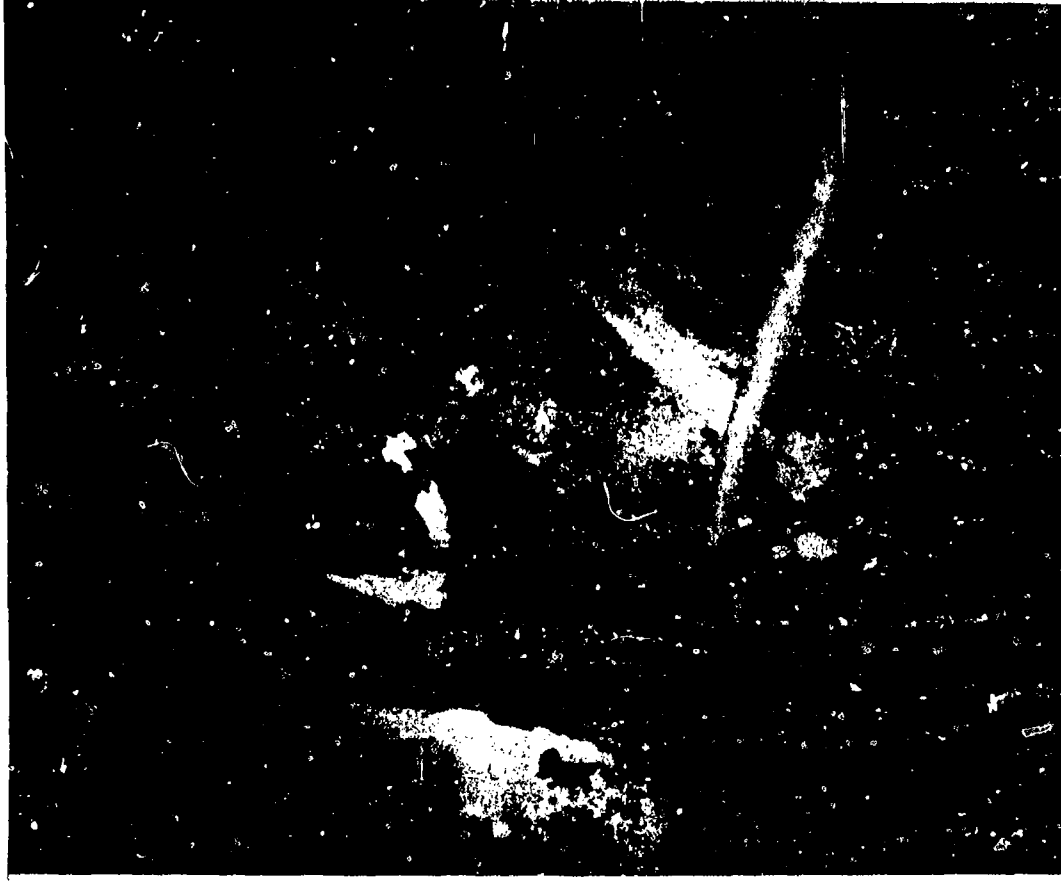
AA-CR-92-1782-12. Detail of fracture in starboard foremast tripod leg caused by lifting of rangefinder platform.

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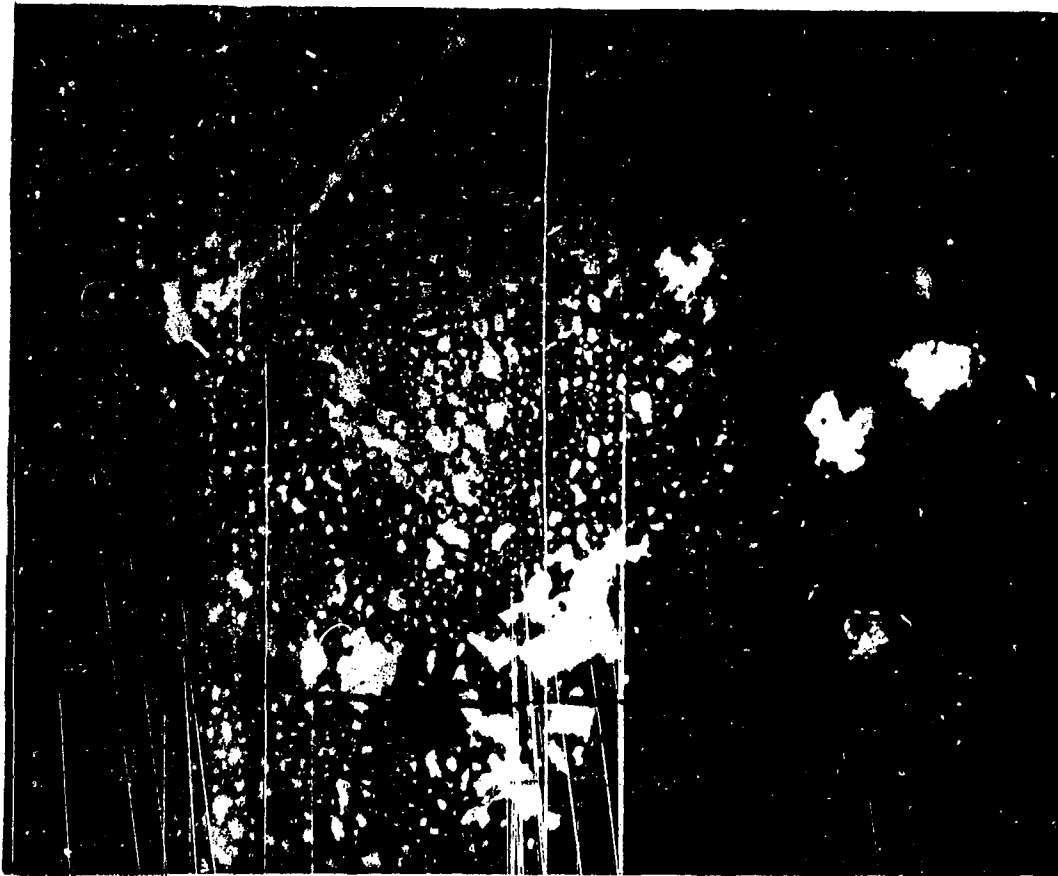
AA-CR-68-2094-8. Failures in starboard tripod leg of foremast, looking inboard.

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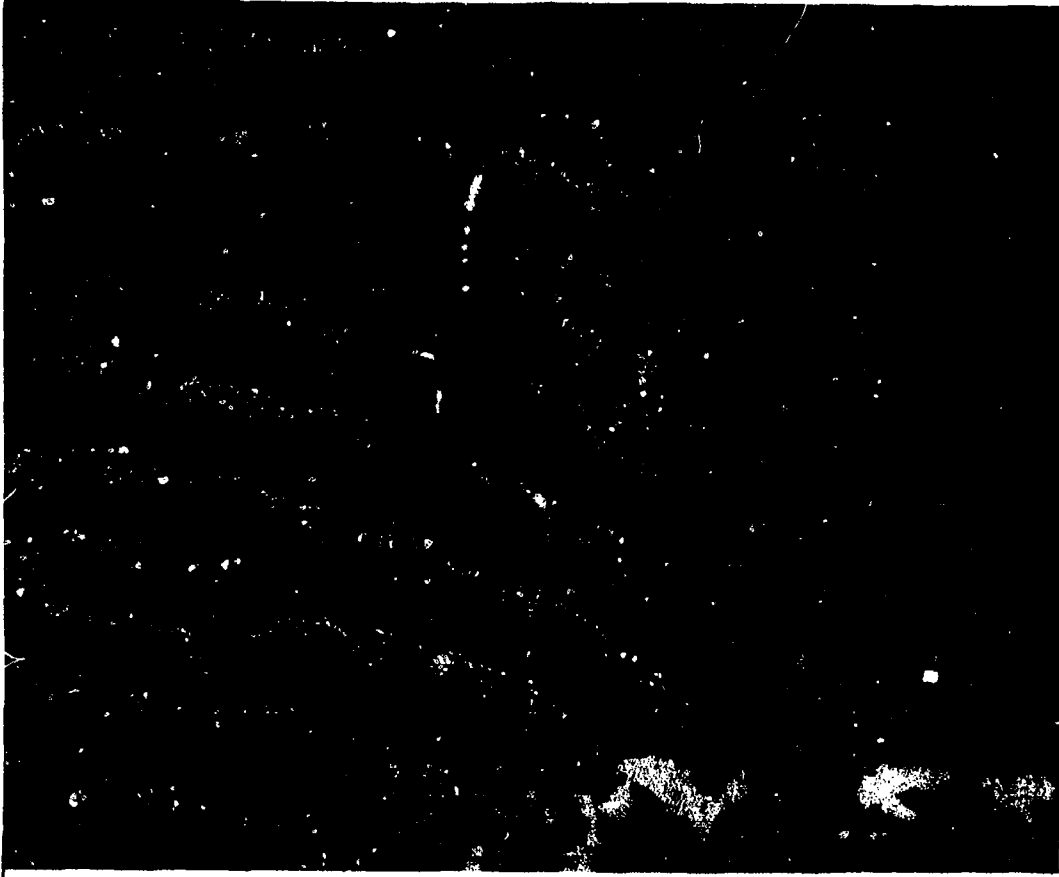


AA-CR-92-1782-11. Detail of crack in starboard tripod leg which was initiated at welded connection.

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AA-CR-68-2094-12. Fire control station, broken connection frame 52, starboard. Movement of cables in tubes due to structural damage.

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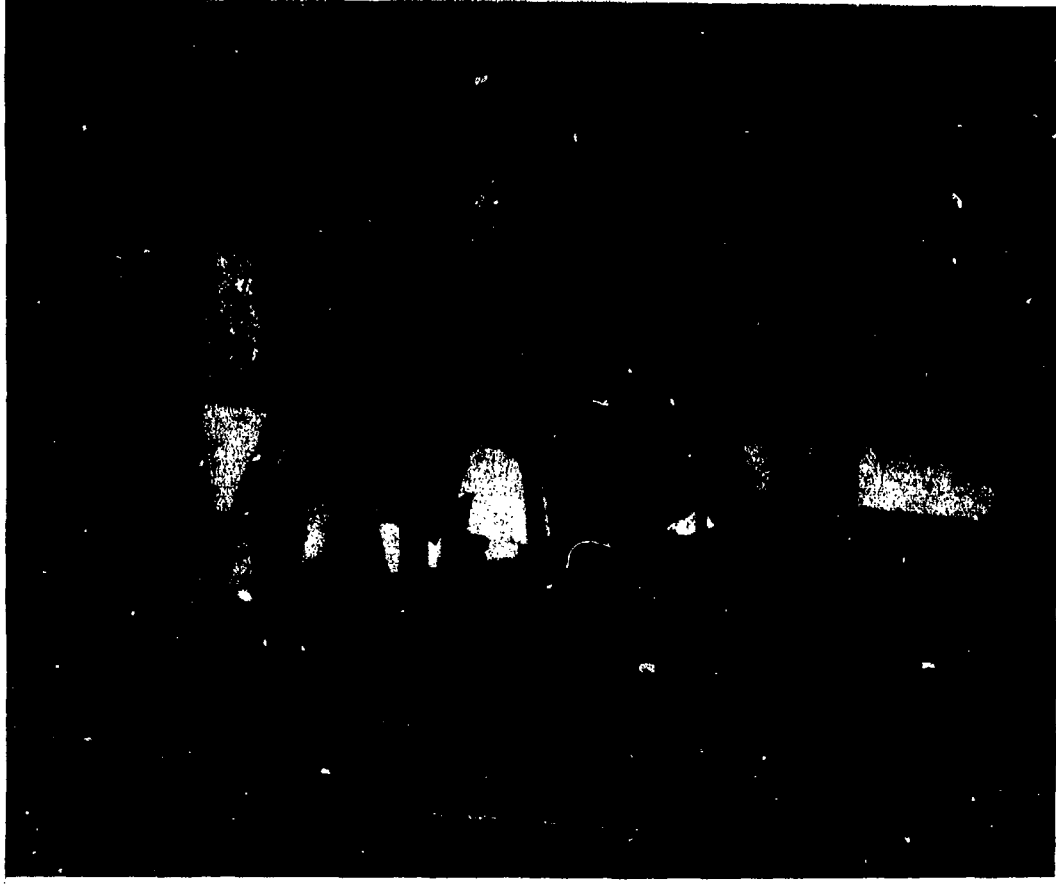
AA-CR-68-2095-2. Looking to starboard at damage to forward bulkhead of shack on after end of navigation bridge.

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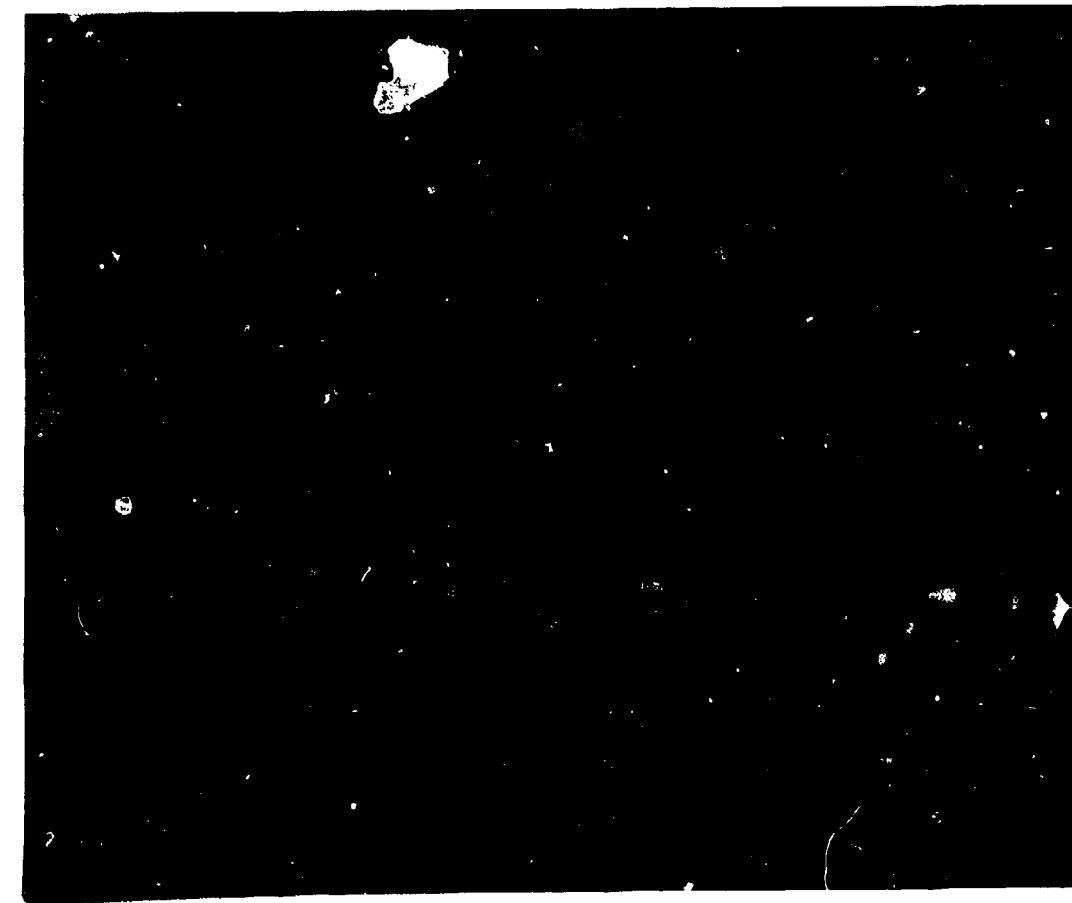
AA-CR-68-2095-6. Looking to starboard at life jacket locker, bridge deck, showing remains of flag bag from overhead.

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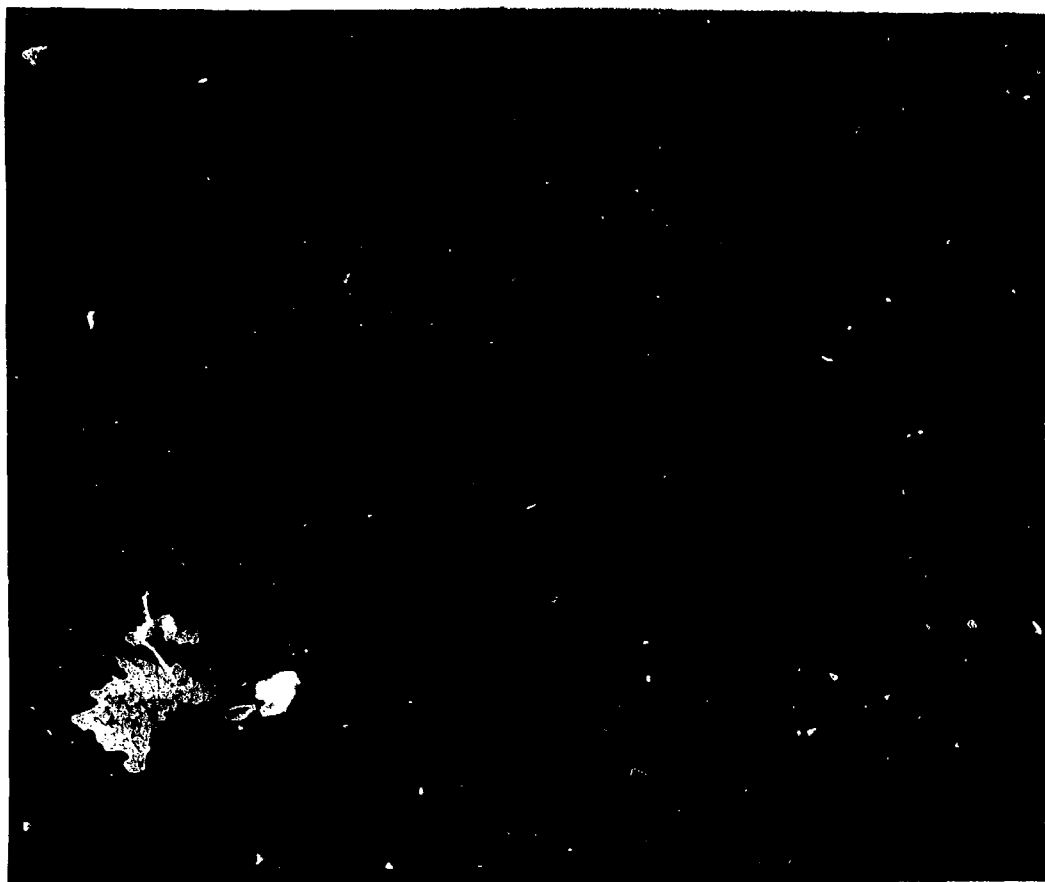
AA-CR-68-2095-5. Looking aft at life jacket locker, port side of bridge deck, frame 53. Stack in background.

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AA-CR-68-2095-4. Forward side of ready service locker, bridge deck, frame 48, port.

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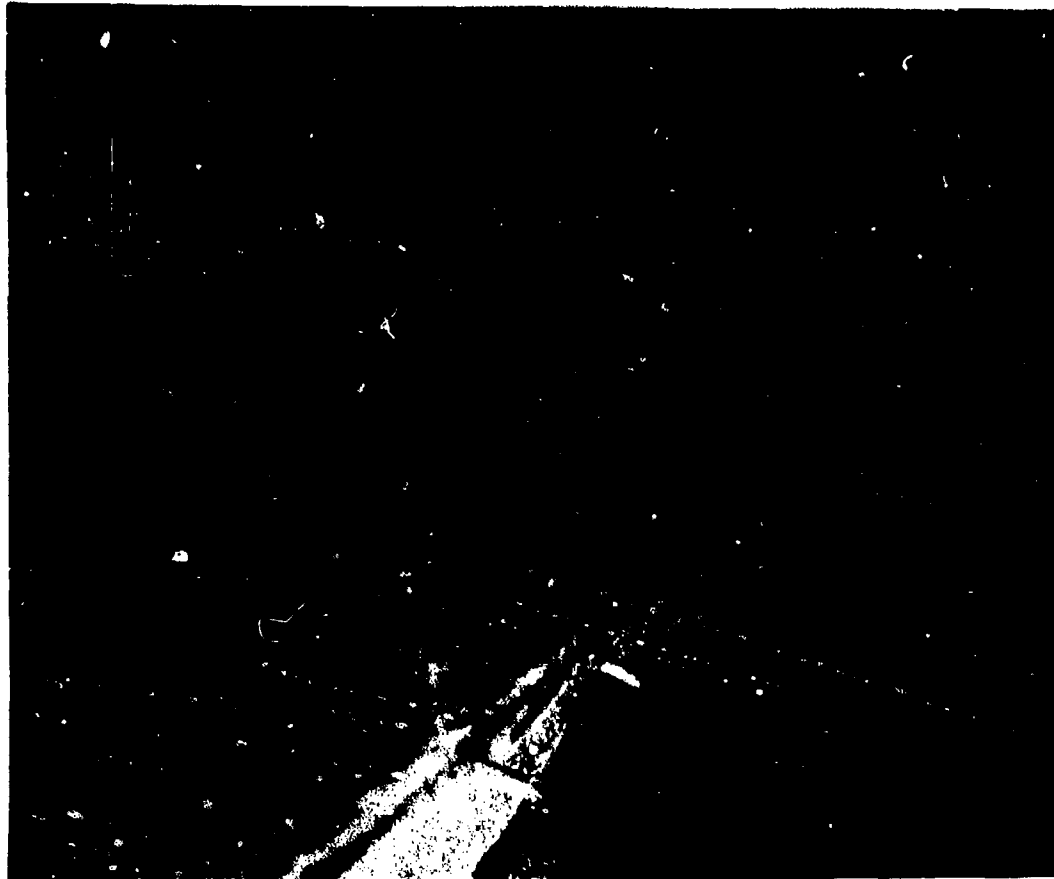
AA-CR-68-2095-7. After side of ready service locker, bridge deck, frame 48, starboard.

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AA-CR-68-2095-3. Damage to back of ready service locker, bridge deck, frame 48, port, looking down between locker and bulkhead.

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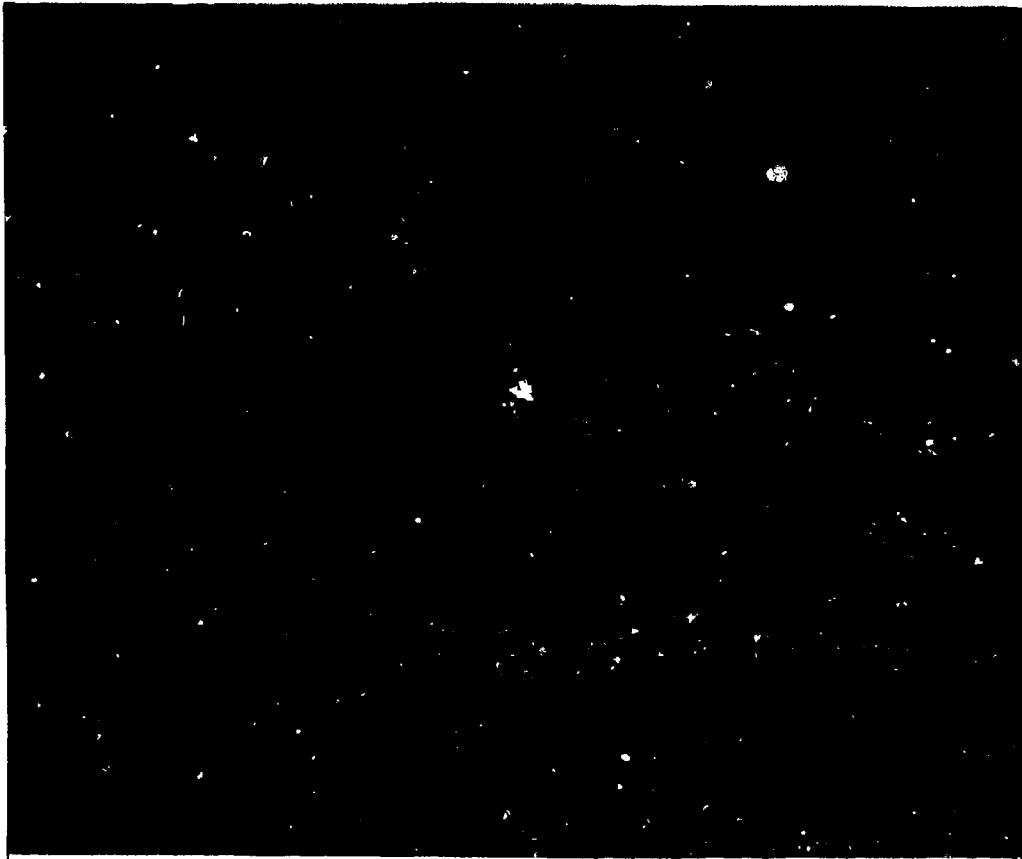
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AA-CR-92-1775-7. Looking to port through transverse passageway, frames 52 to 55, superstructure deck. Remains of burned U.S. Army equipment in foreground.

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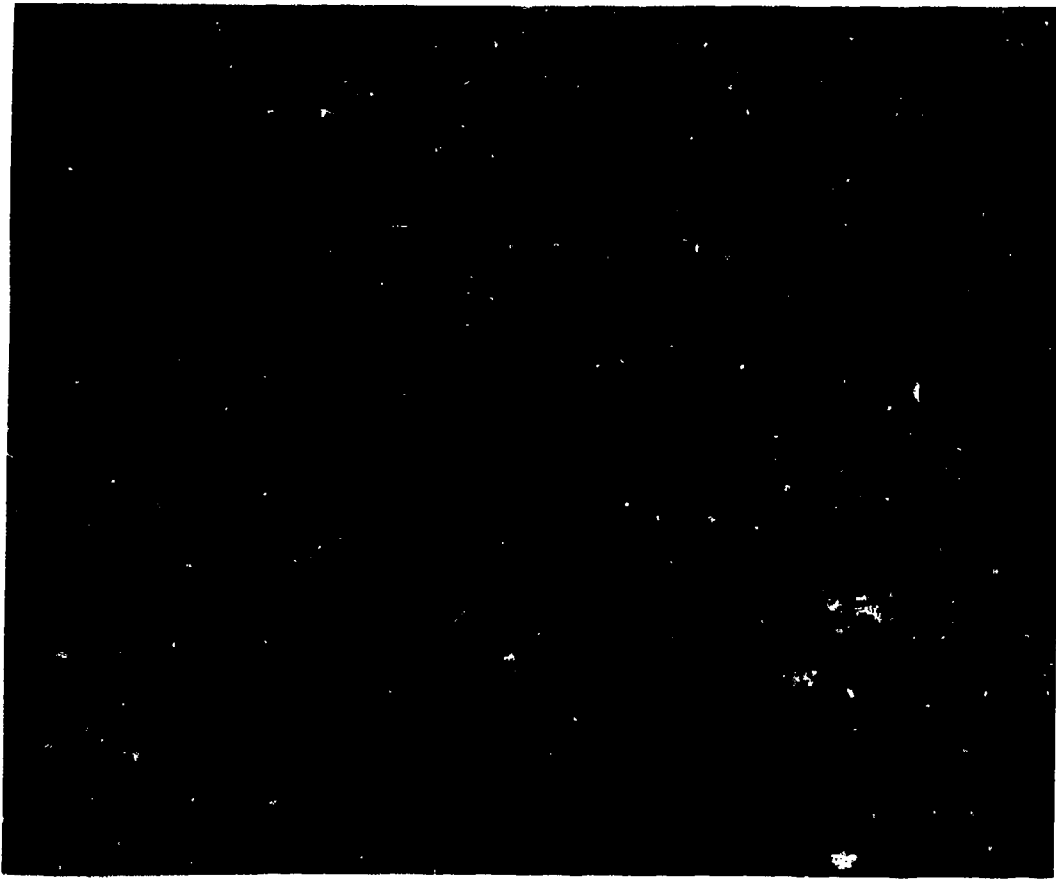
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AA-CR-68-2091-4. Looking forward and inboard from frame 59, starboard, superstructure deck. Showing damage to light metal structure and burned areas of wood deck.

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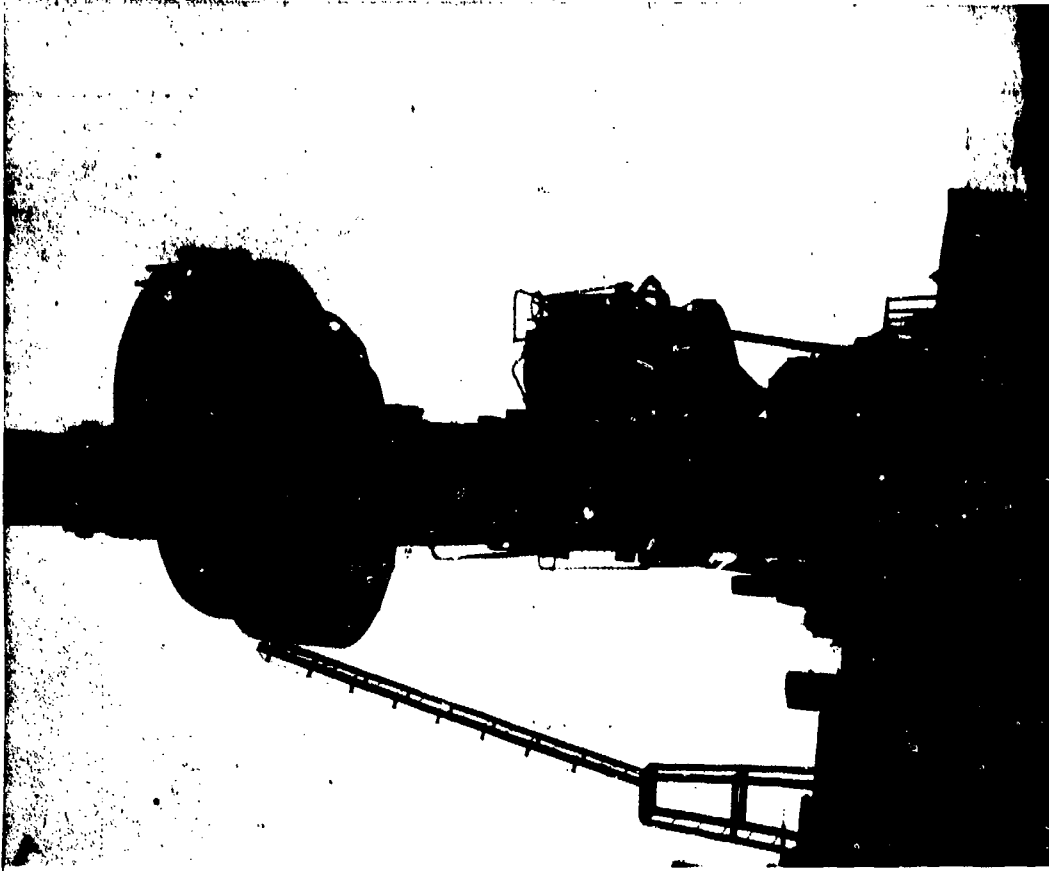
AA-CR-68-2095-12. Hood over vent trunk, superstructure deck, frame 60, starboard.

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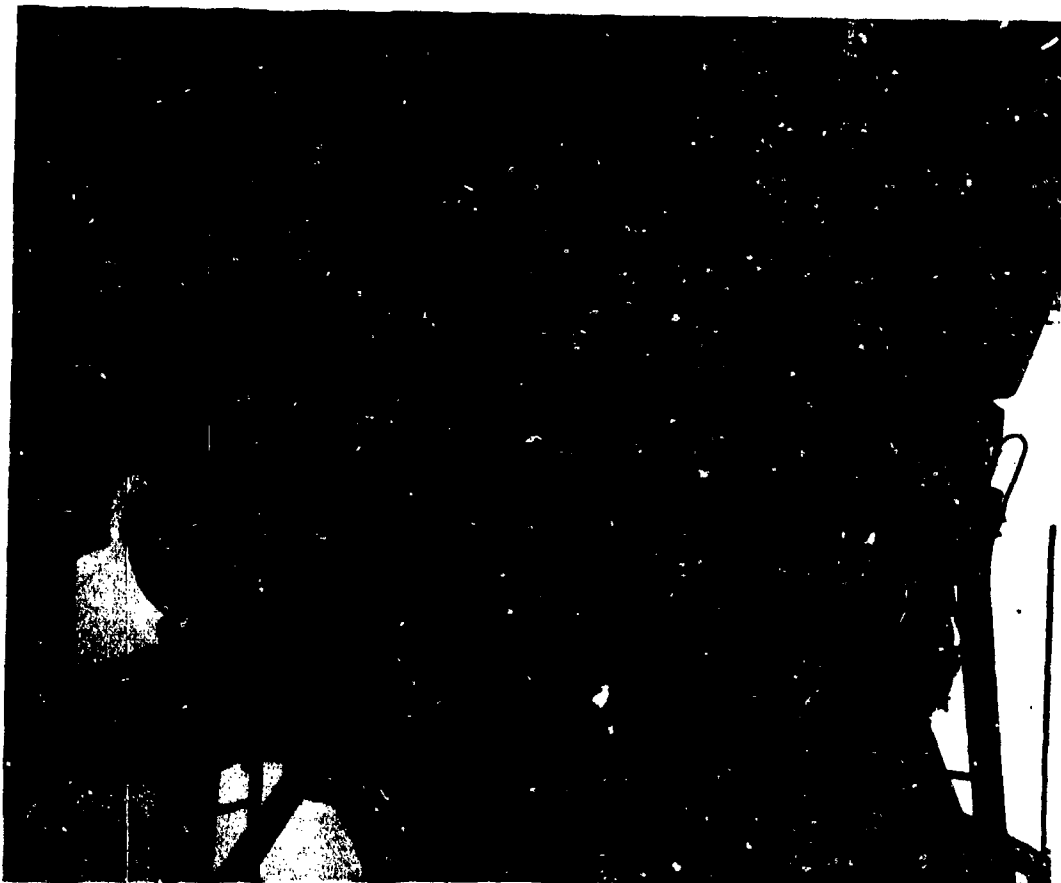
AA-CR-68-2147-3. Overall view of starboard boom, looking forward and outboard from frame 70.

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AA-CR-68-2146-4. Crane boom, frame 62, starboard side, superstructure deck.

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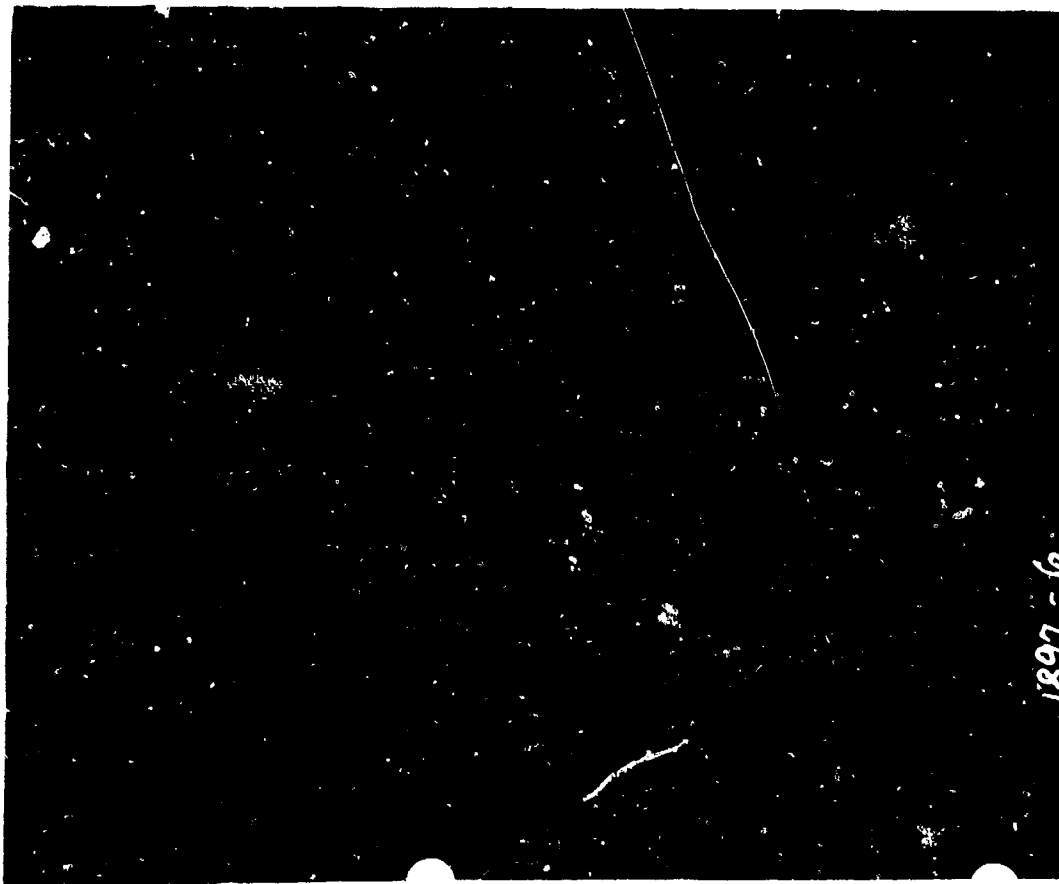


AA-CR-80-1897-7. Damage to smokestack.

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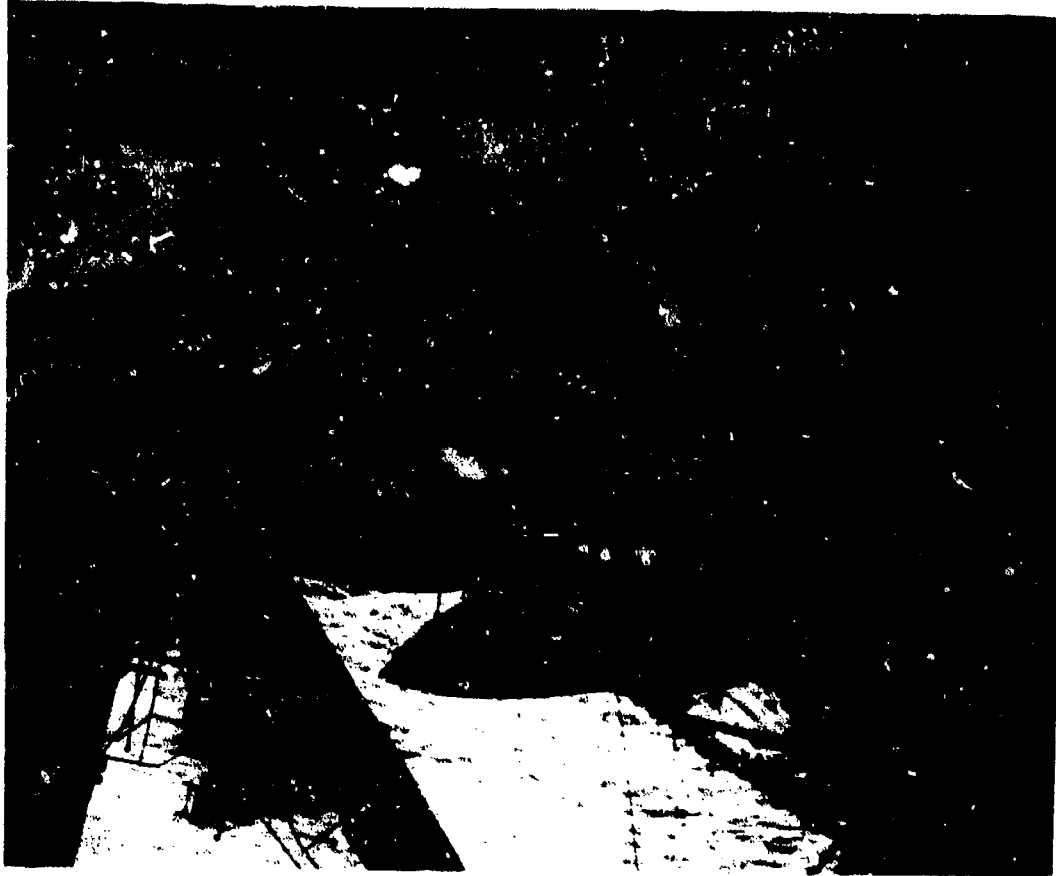


AA-CR-80-1897-6. Damage to smokestack.

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AA-CR-92-1775-10. Looking aft from foremast, showing stack cap, damaged stack and starboard crane.

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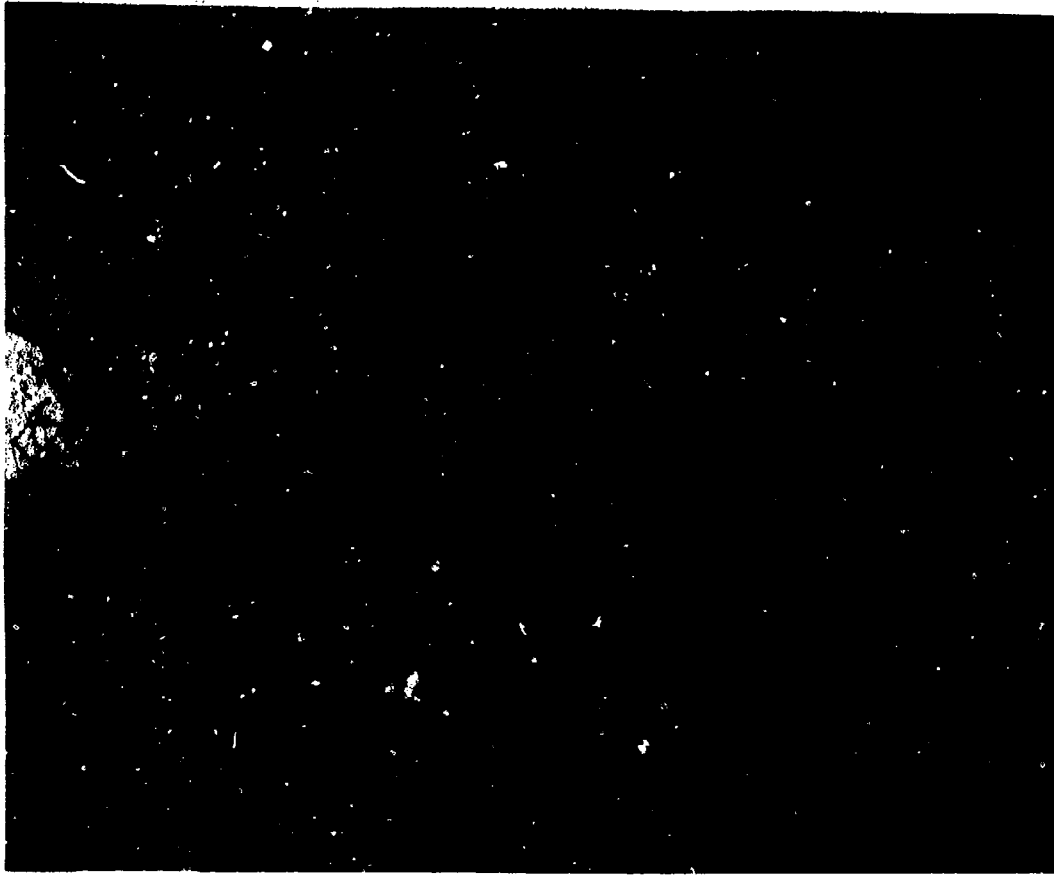
AA-CR-68-2091-6. General view looking aft from bridge deck. Damaged stack is in foreground. Starboard searchlight missing from after searchlight platform.

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AA-CR-80-1897-8. Damage to smokestack, uptakes and uptakes weather bulkhead.

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AA-CR-68-2095-11. After bulkhead of deck house frame 68, superstructure deck.

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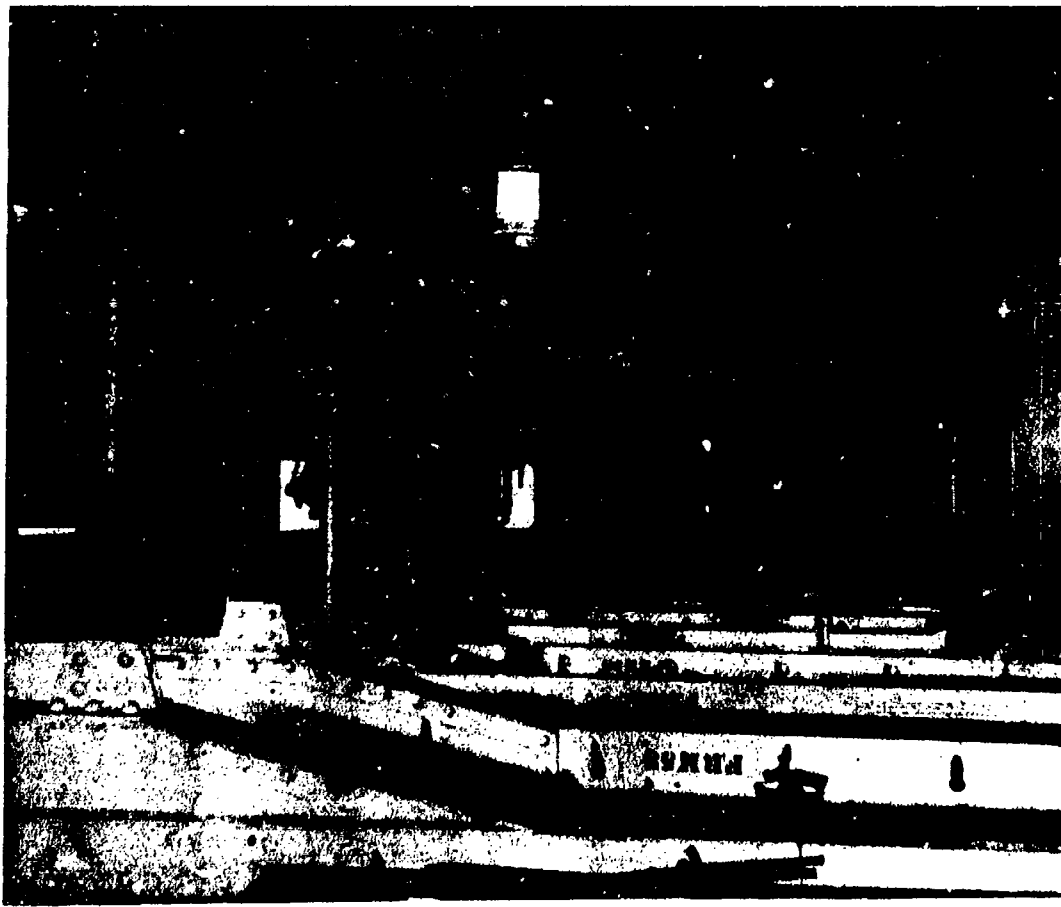


AA-CR-68-2091-5. General view, looking aft from starboard side of bridge deck.

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AA-CR-68-2090-4. Looking forward in starboard aircastle.

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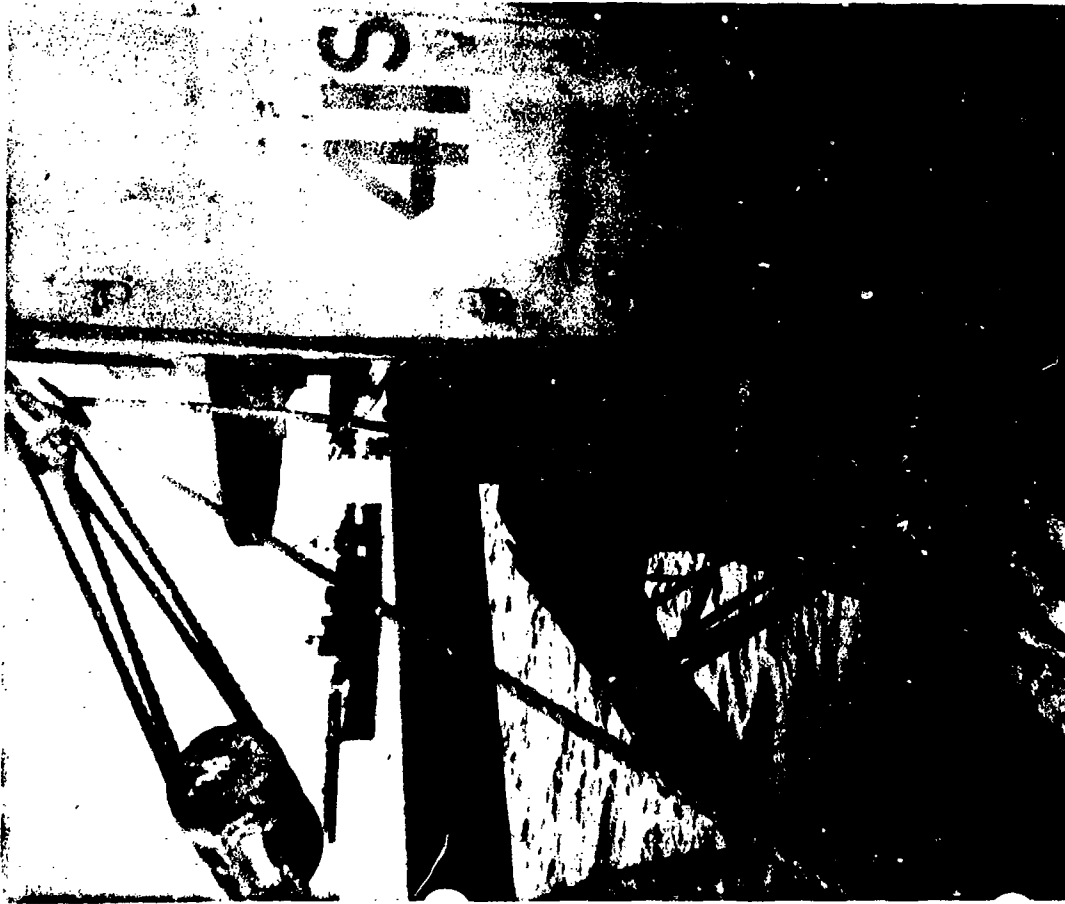
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AA-CR-68-2090-12. Looking forward in port air castle.

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AA-CR-68-2090-5. Looking aft at frame 41, starboard, showing damaged gun port covers.

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AA-CR-175-2135-1. Looking forward at damage and scorching of paint near door at after end of port aircraft, main deck frame 61, port.

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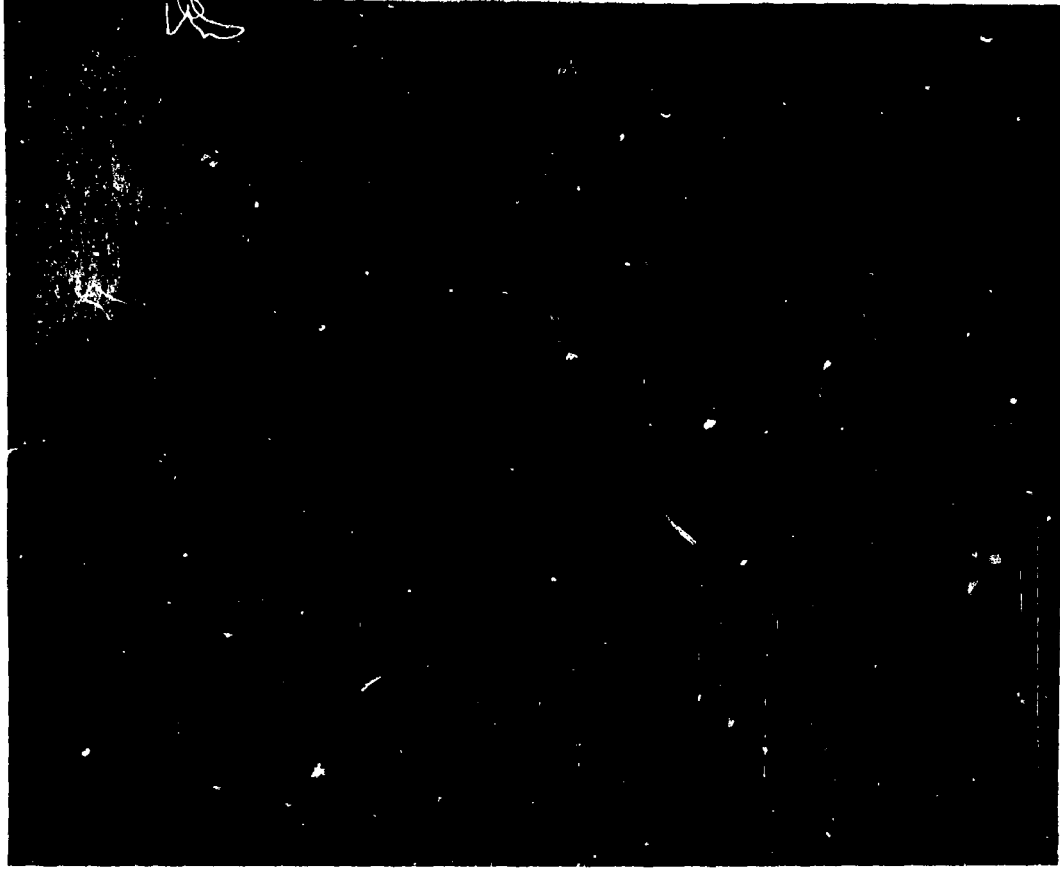


AA-CR-175-2134-9. Looking upward at blast damage to gun platform, superstructure deck, frame 66 to 73, starboard. This view is taken from the approximate angle of approach of the blast.

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AA-CR-68-2095-10. Damage to gun platform and bulwark, superstructure deck, frame 68 to 72, starboard. Note hatch cover from hatch to boat shop.

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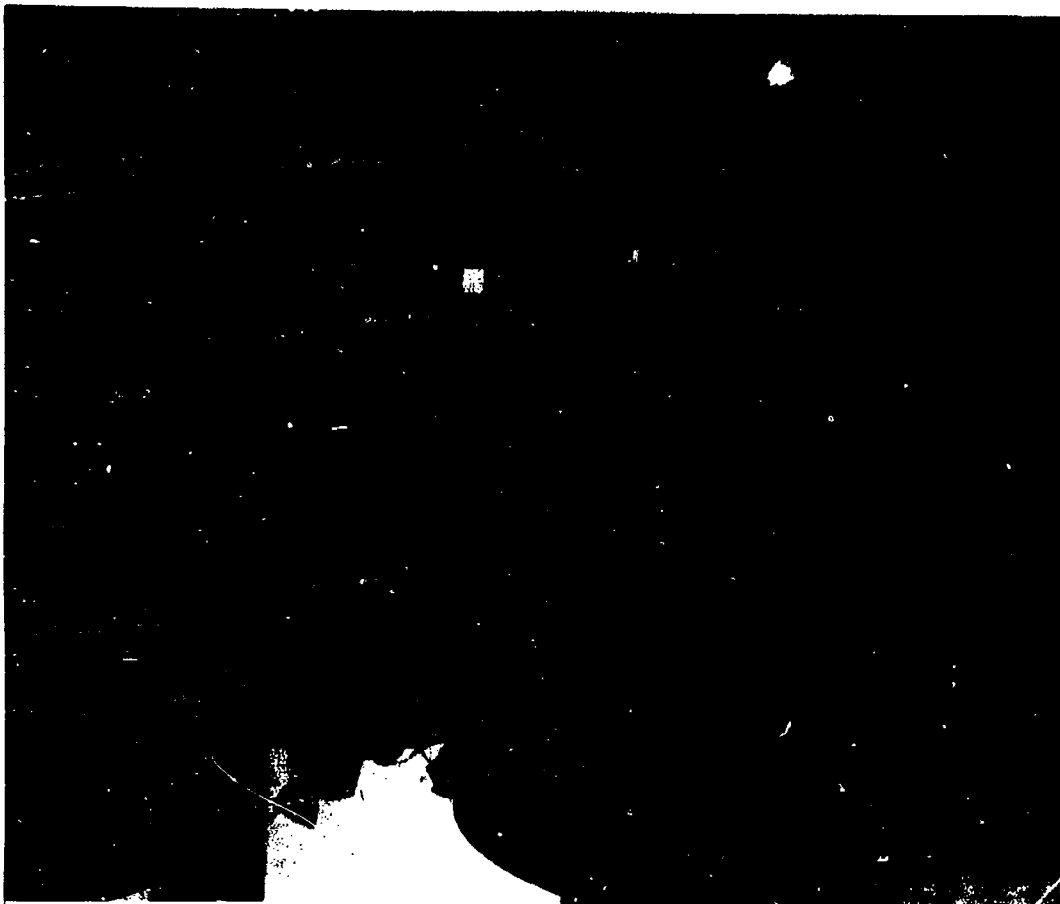


AA-CR-38-2097-12. Looking forward at blast damage to gun platform, superstructure deck, frames 66 to 73, starboard.

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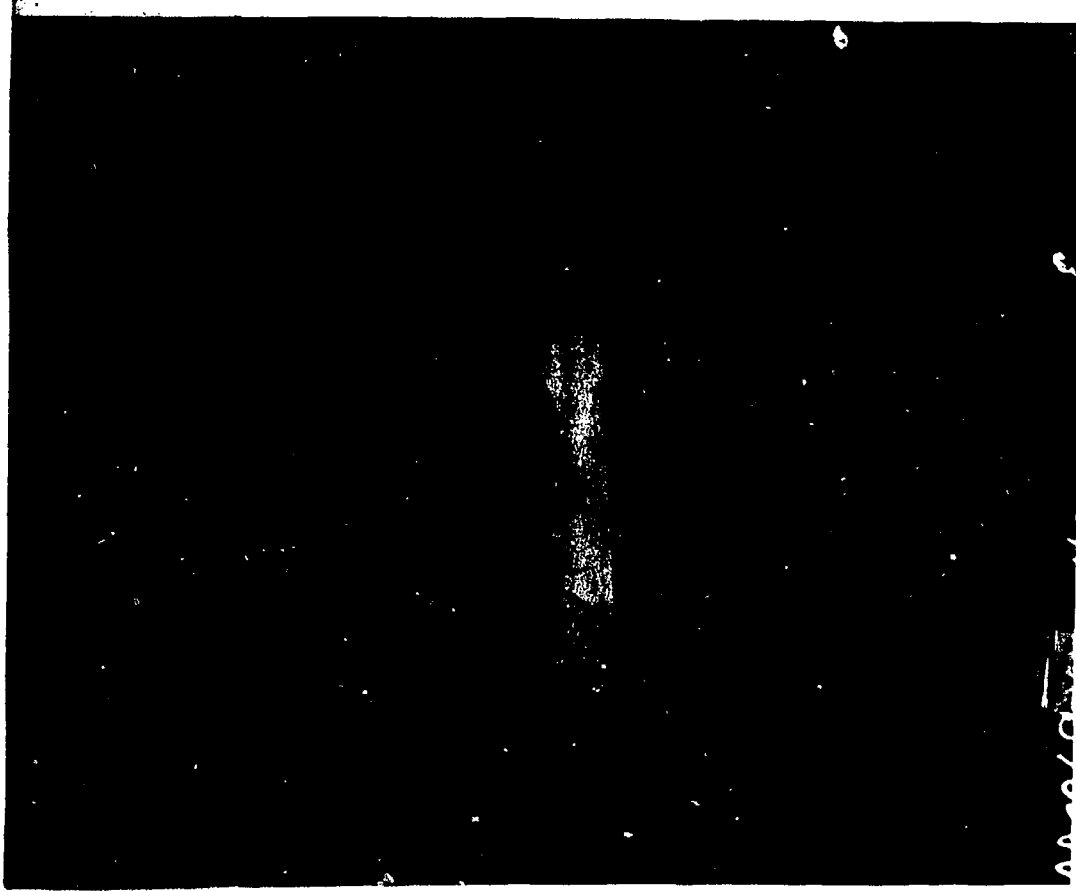


AA-CR-68-2090-3. Looking forward and inboard at deckhouse bulkhead, main deck, frame 63 to 68, starboard.

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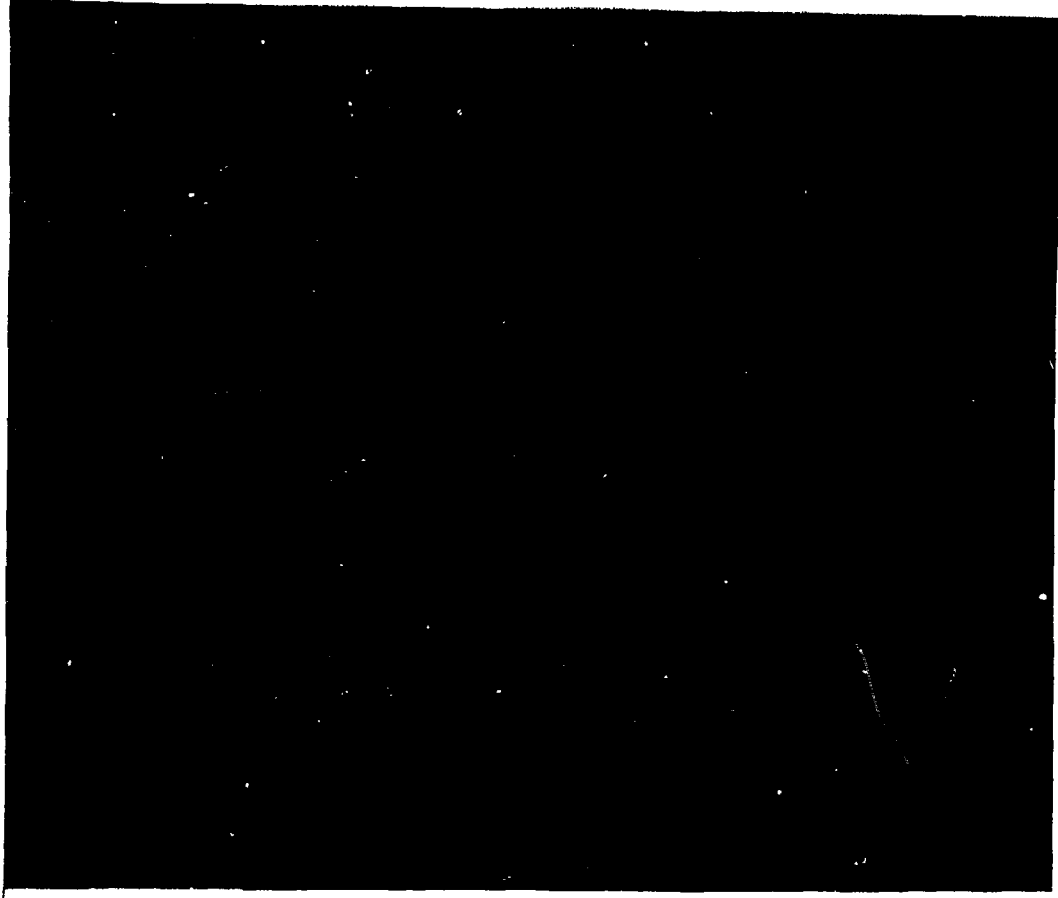


AA-CR-2097-11. Looking forward and inboard at dished deckhouse bulkhead main deck, frames 63 to 68, starboard.

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AA-CR-92-1775-6. Looking forward and inboard at deck house bulkhead, frames 65 to 68, starboard.

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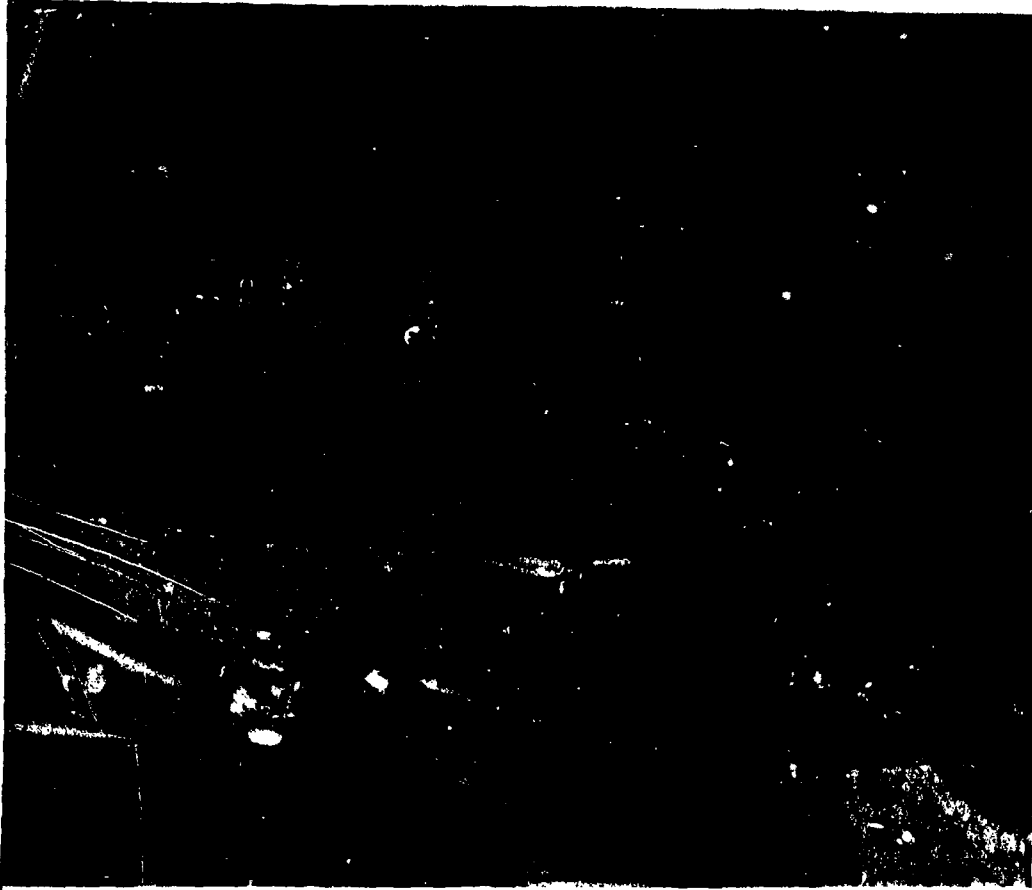


AA-CR-175-2134-11. Looking forward and inboard at dished deckhouse bulkhead main deck, frames 63 to 88, starboard.

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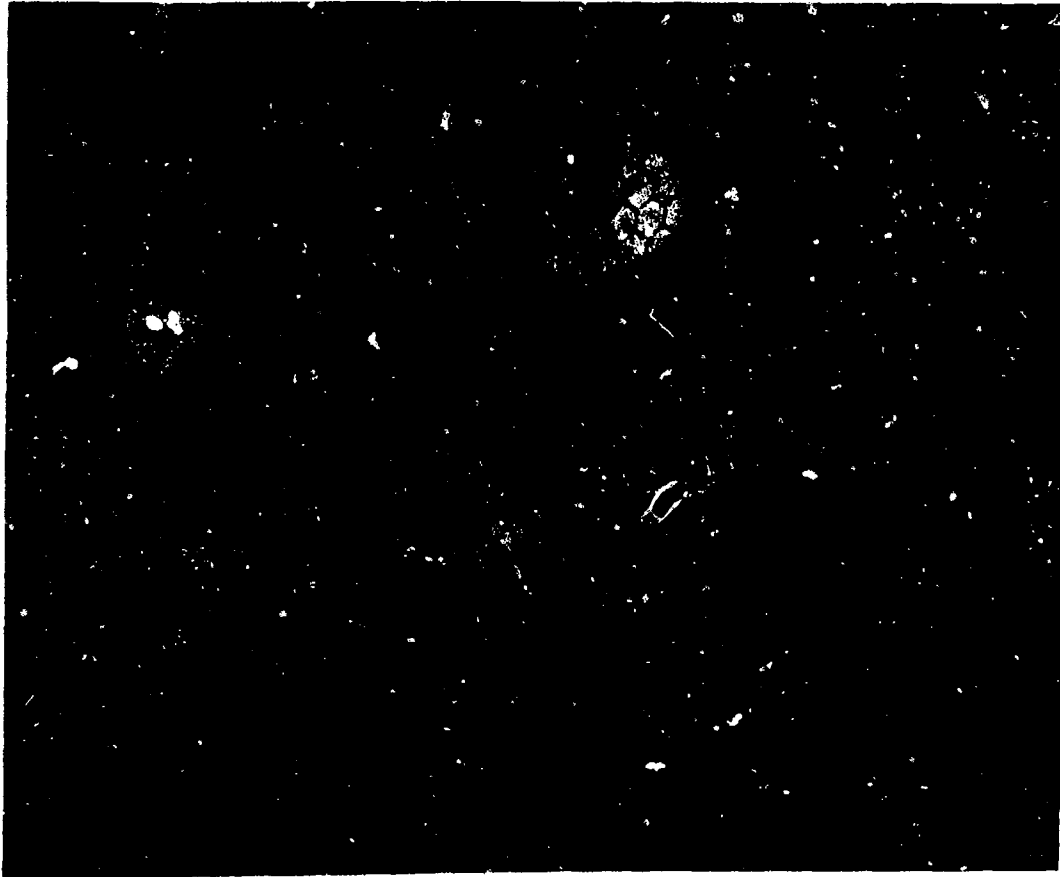
AA-CR-92-1782-8. Close-up view of bulkhead plating failure adjacent to stiffener. Note stiffener rivets pulled through bulkhead. See photo No. 2134-11.

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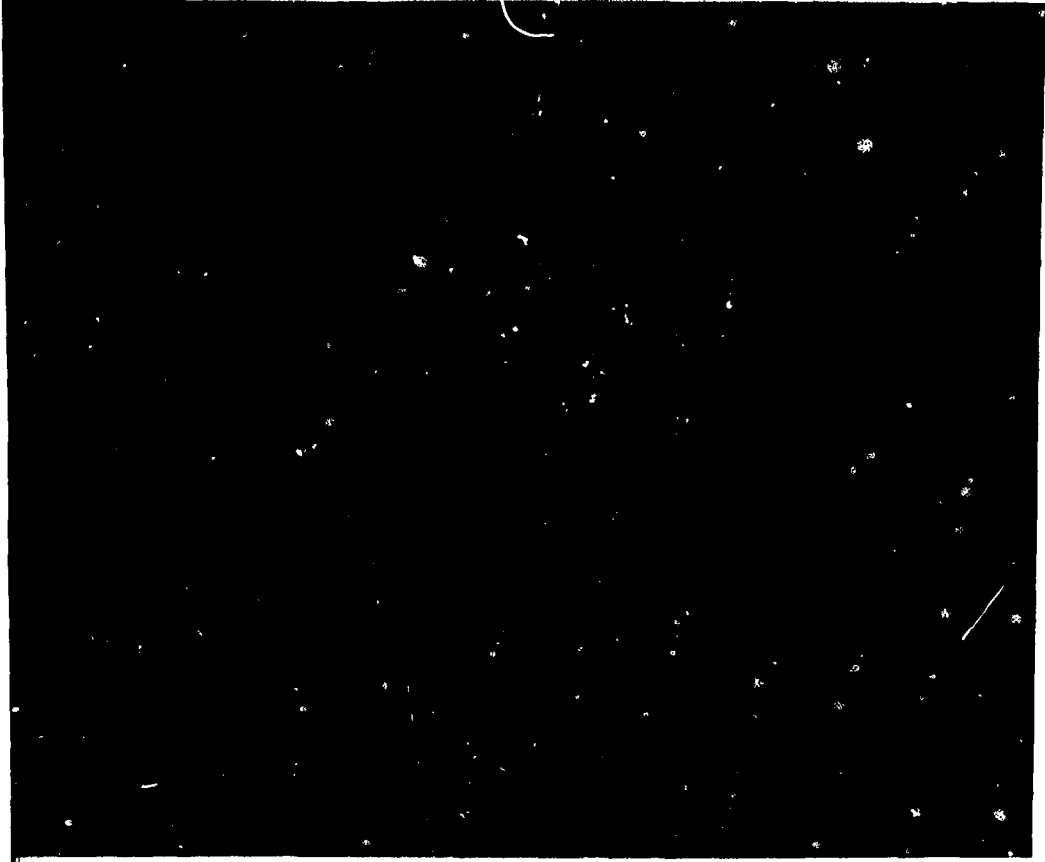
AA-CR-92-1782-9. Detail of torn bulkhead plating, frame 84, starboard side, main deck. See photo No. 2080-3.

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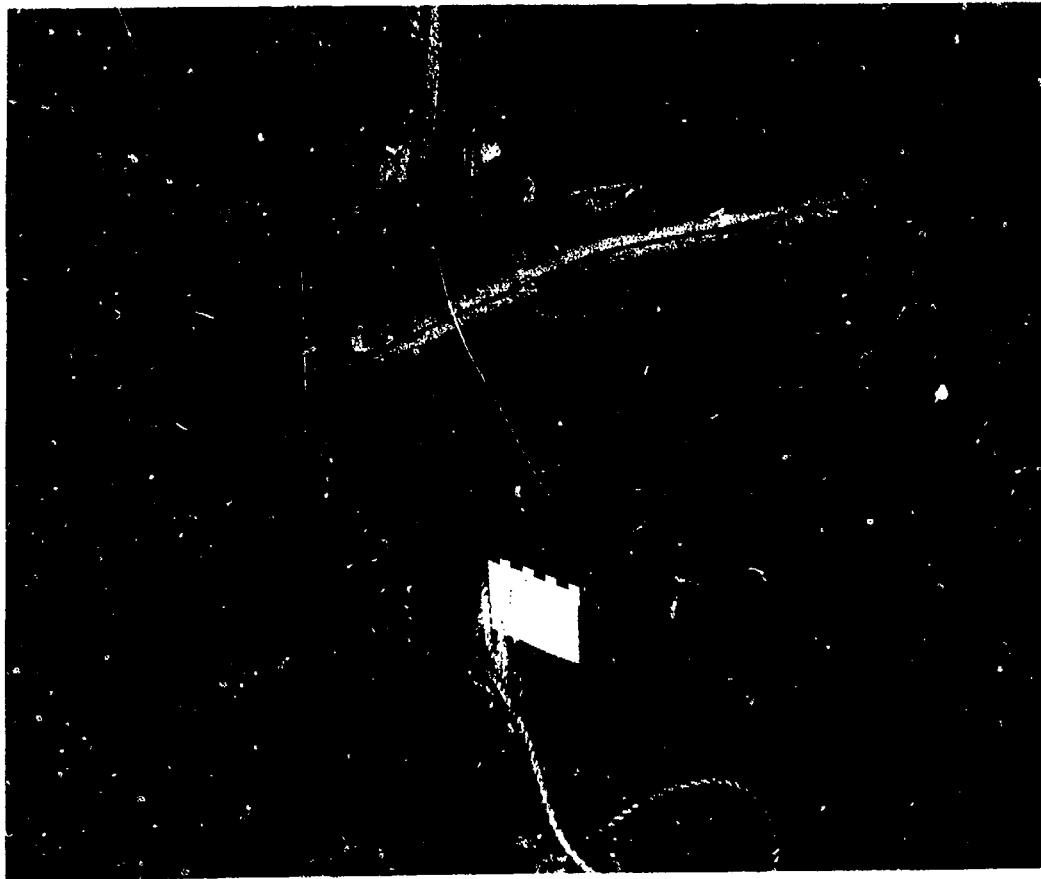
AA-CR-92-1782-10. Detail of plating and door frame failure at frame 63, starboard side, main deck.

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AA-CR-68-2091-10. Damage to quick acting door in bulkhead 73, main deck starboard side, and ready service box adjacent to the door.

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AA-CR-68-2090-11. Looking forward and inboard at deckhouse bulkhead, frames 62 to 68. Port main deck.

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AA-CR-175-2134-12. Looking forward and inboard at damage to outboard
structure of deckhouse, main deck, frames 63 to 67, port.

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AA-CR-92-1775-12. Looking from starboard toward mainmast structure.
Showing failure of mainmast.

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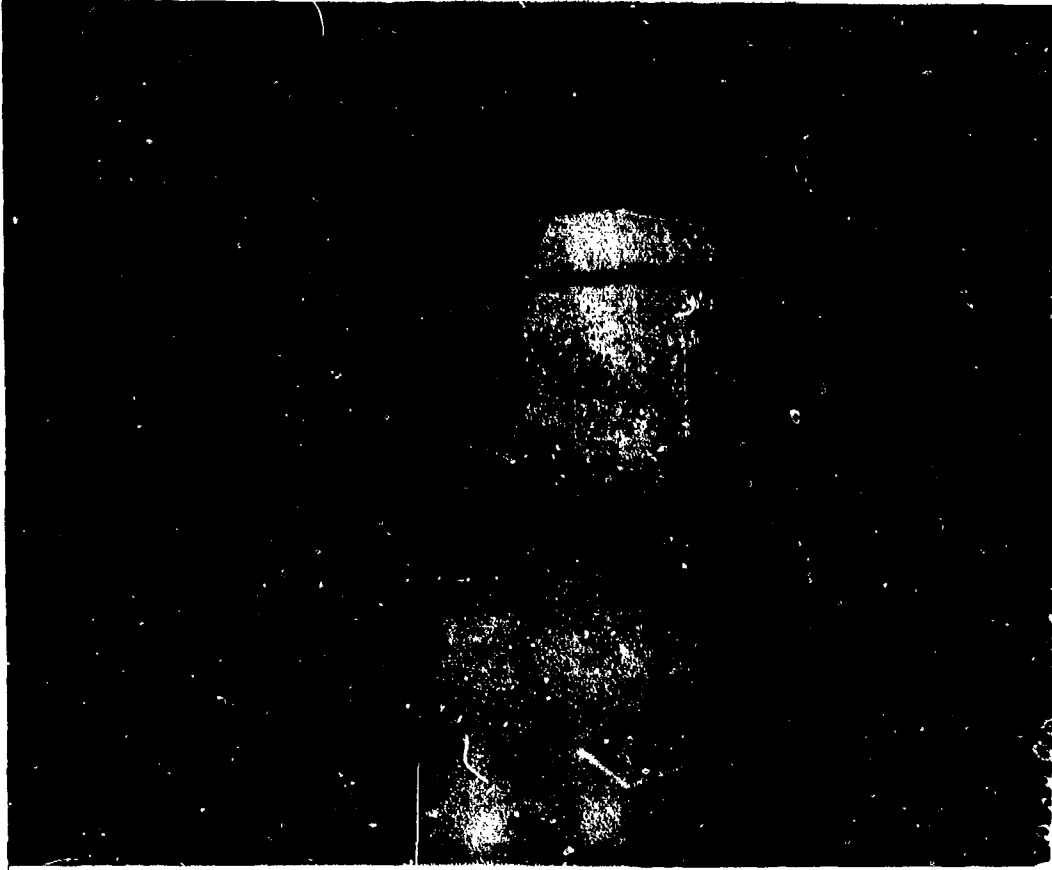


AA-CR-80-1895-7. Forward area of after tripod, looking to port, showing main mast hanging top down.

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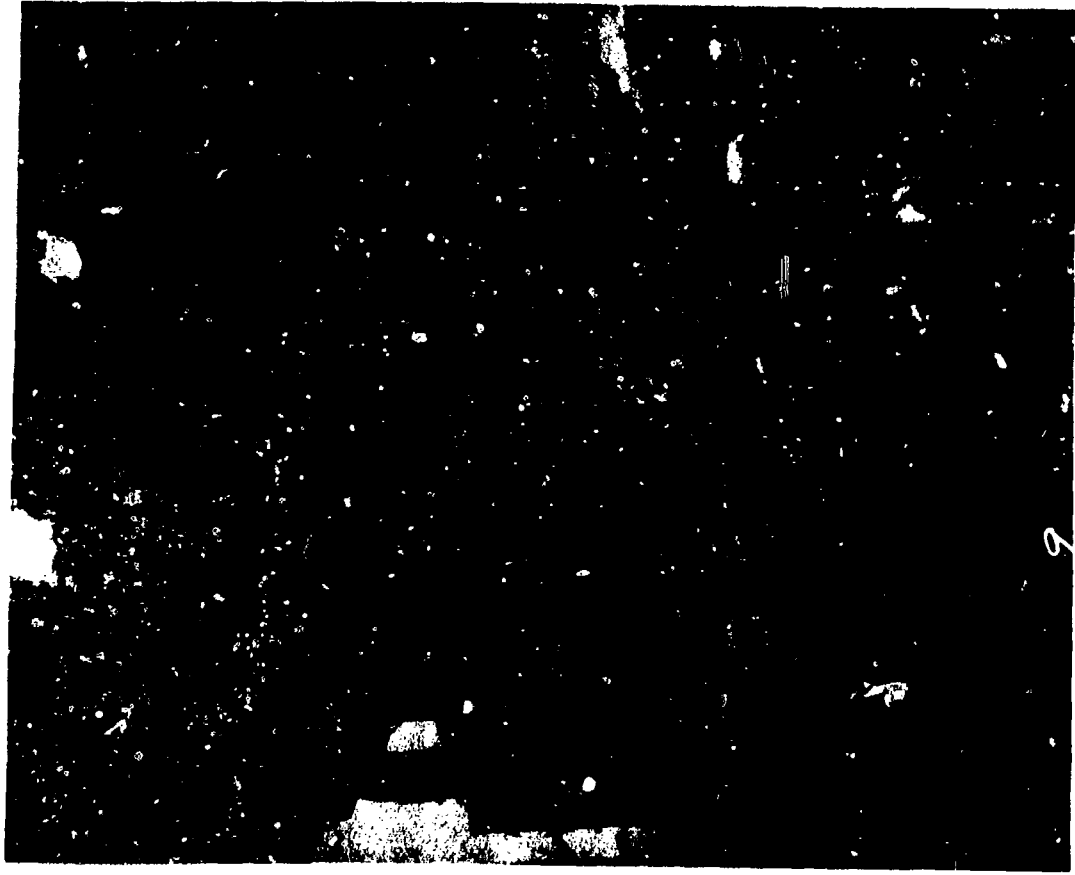


AA-CR-80-1895-8. General view of main deck and portion of main mast structure. Note that top of mast is in debris on deck.

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AA-CR-80-1895-9. Detail of top of mainmast.

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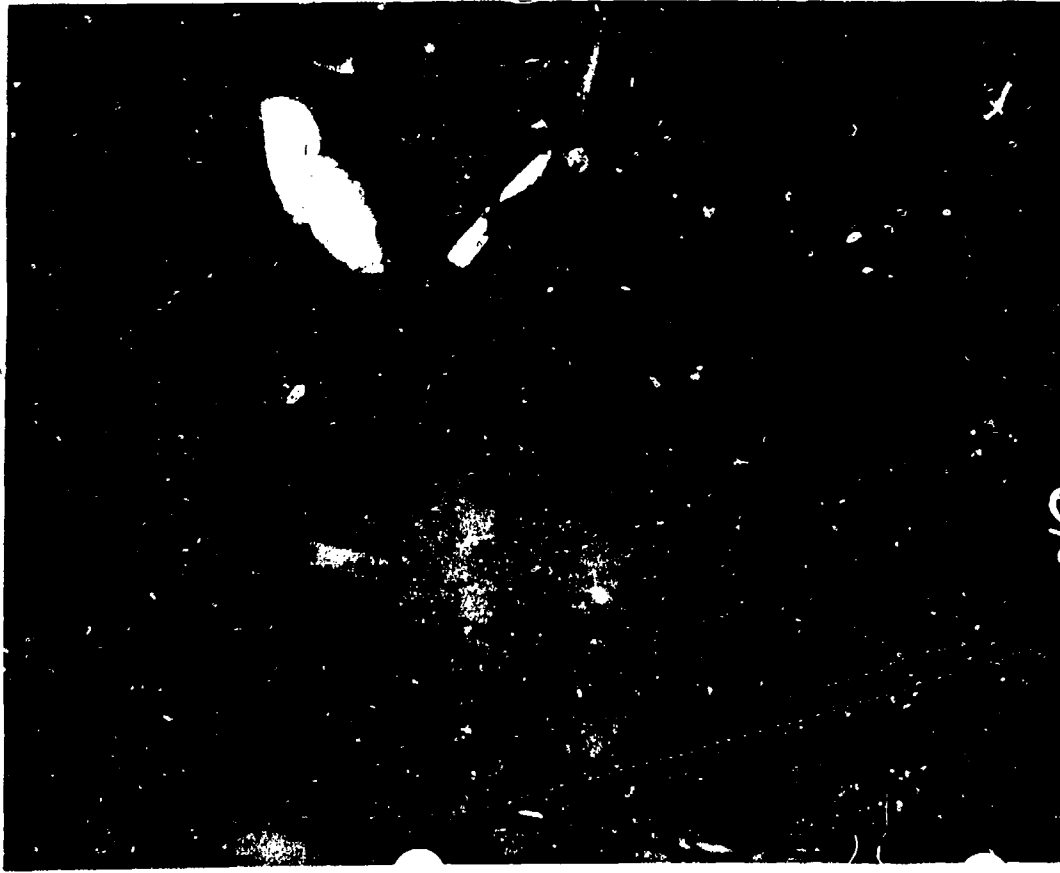


AA-CR-80-1895-8. Detail of lower end of mainmast and yardarm.

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AA-CR-80-1895-10. Detail of base plate and yardarm brackets - mainmast.

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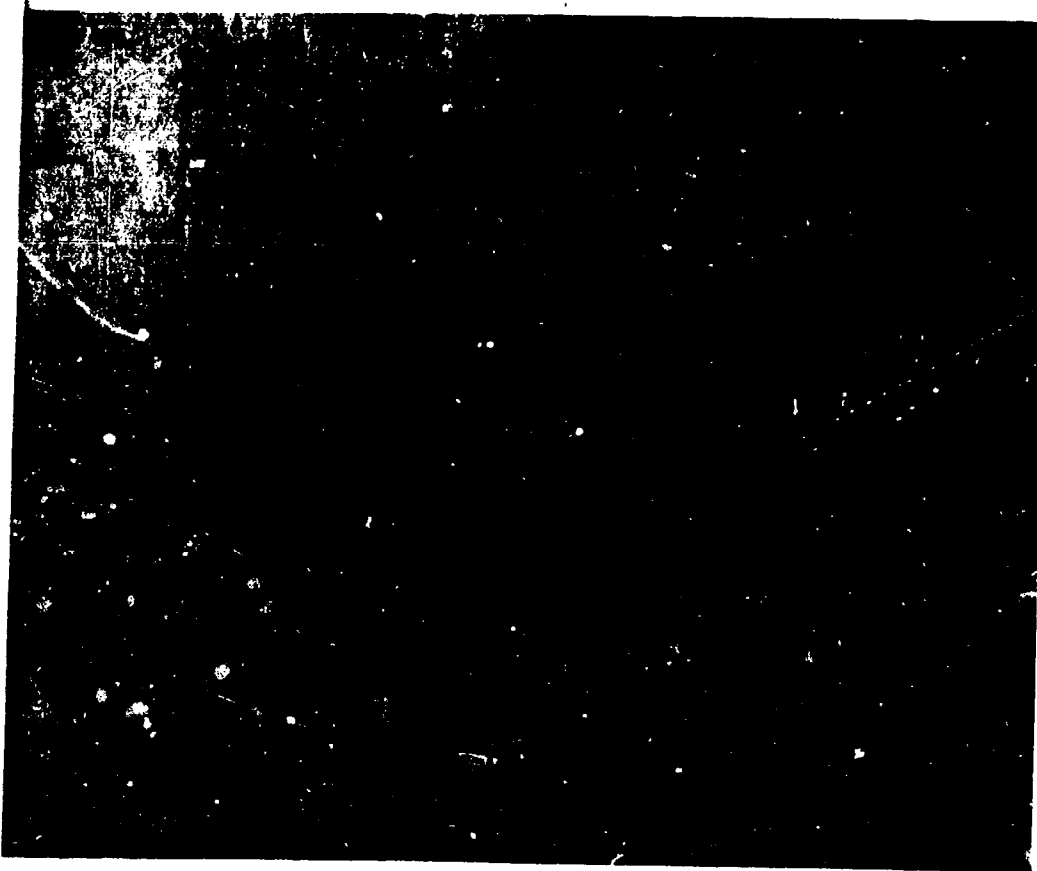
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AA-CR-80-1895-11. Remains of doubler at base of main topmast. Cables parted due to failure of mast.

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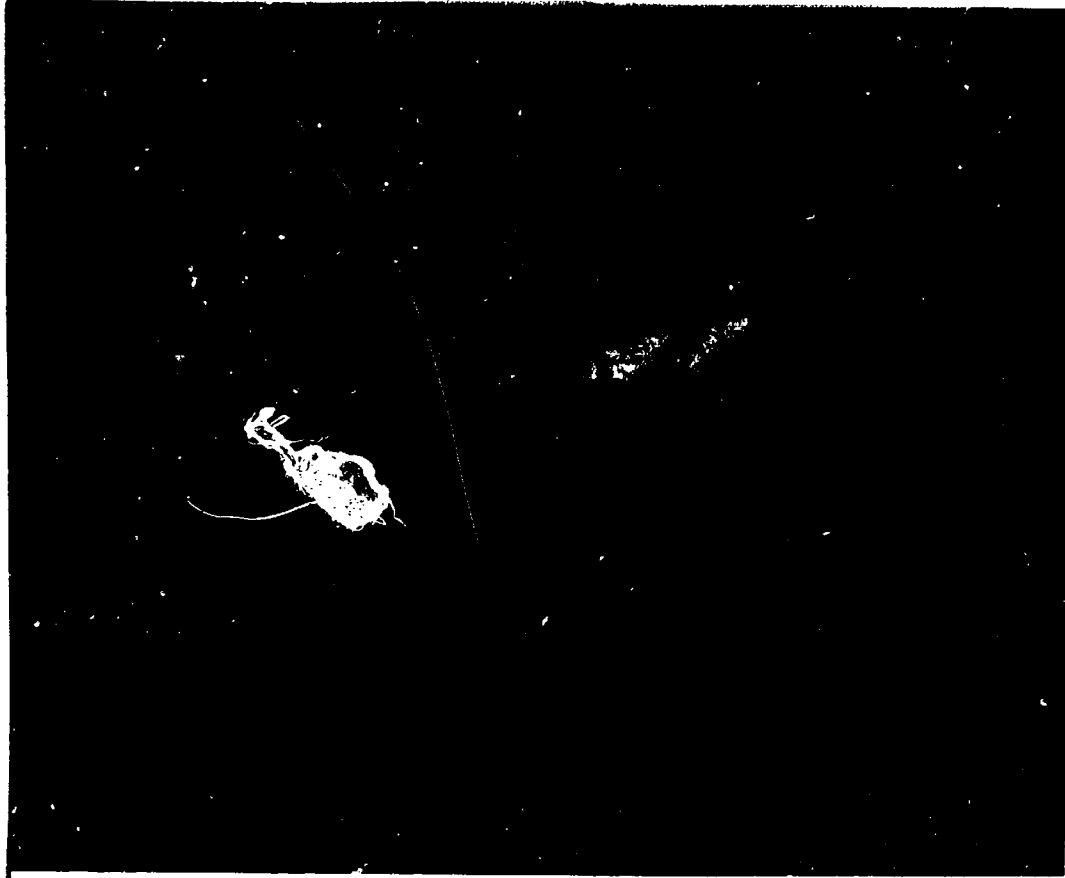
AA-CR-68-2091-7. View of mainmast showing damage on various levels and entire structure slightly canted forward and to port.

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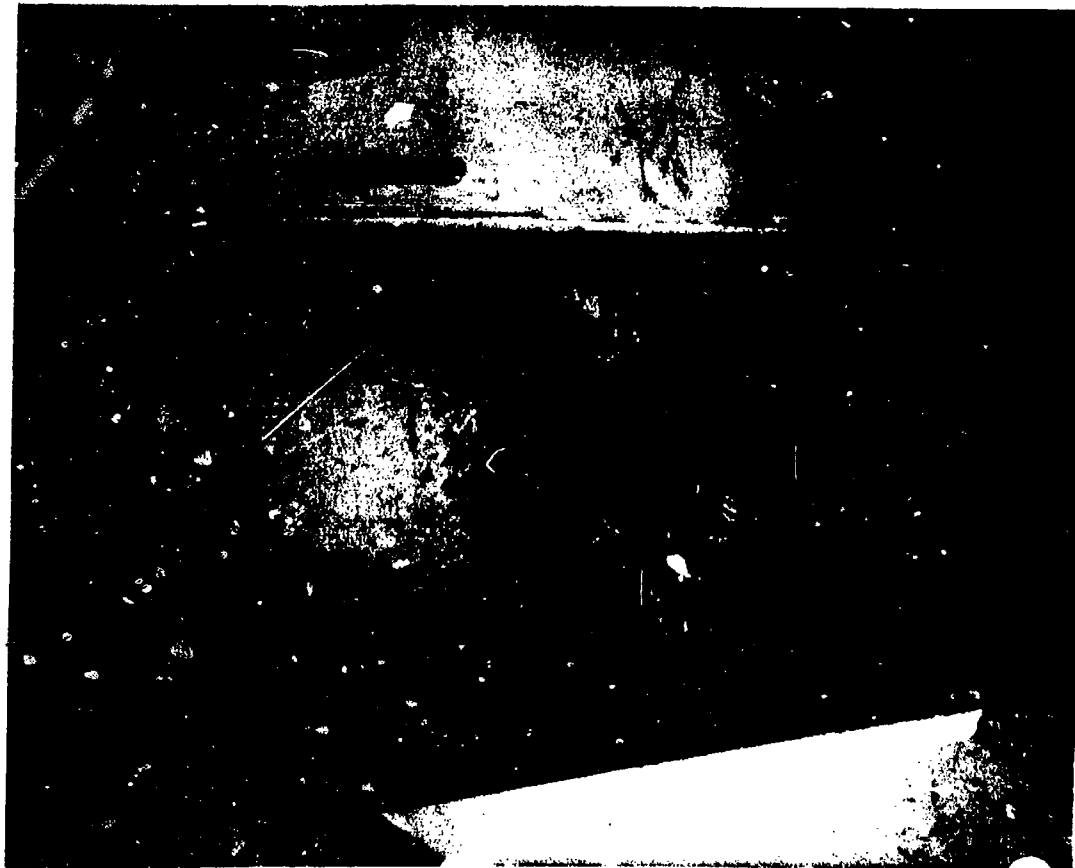
AA-CR-68-2097-7. Failure of connection of after starboard leg of mainmast to main deck.

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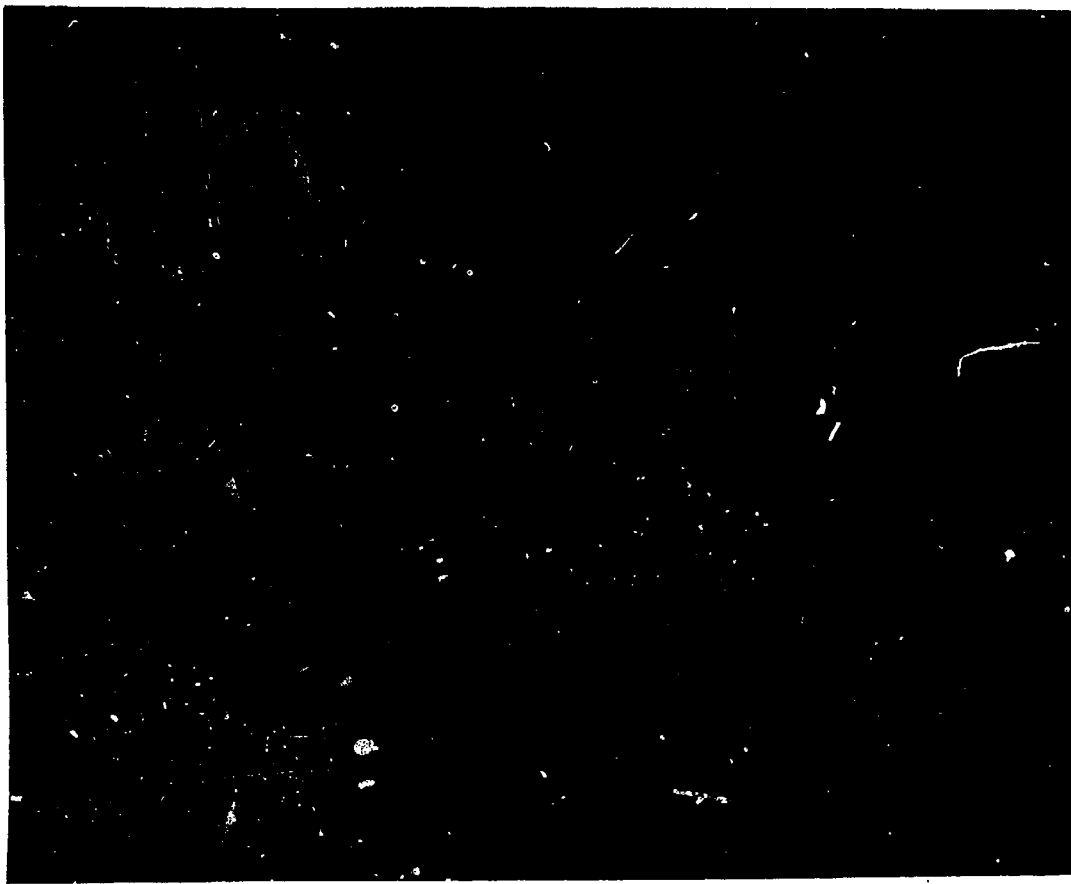


AA-CR-68-2145-5. 2nd deck, base of starboard aft leg, frame 103.

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AA-CR-68-2146-6. Starboard aft leg, frame 103, underside main deck.

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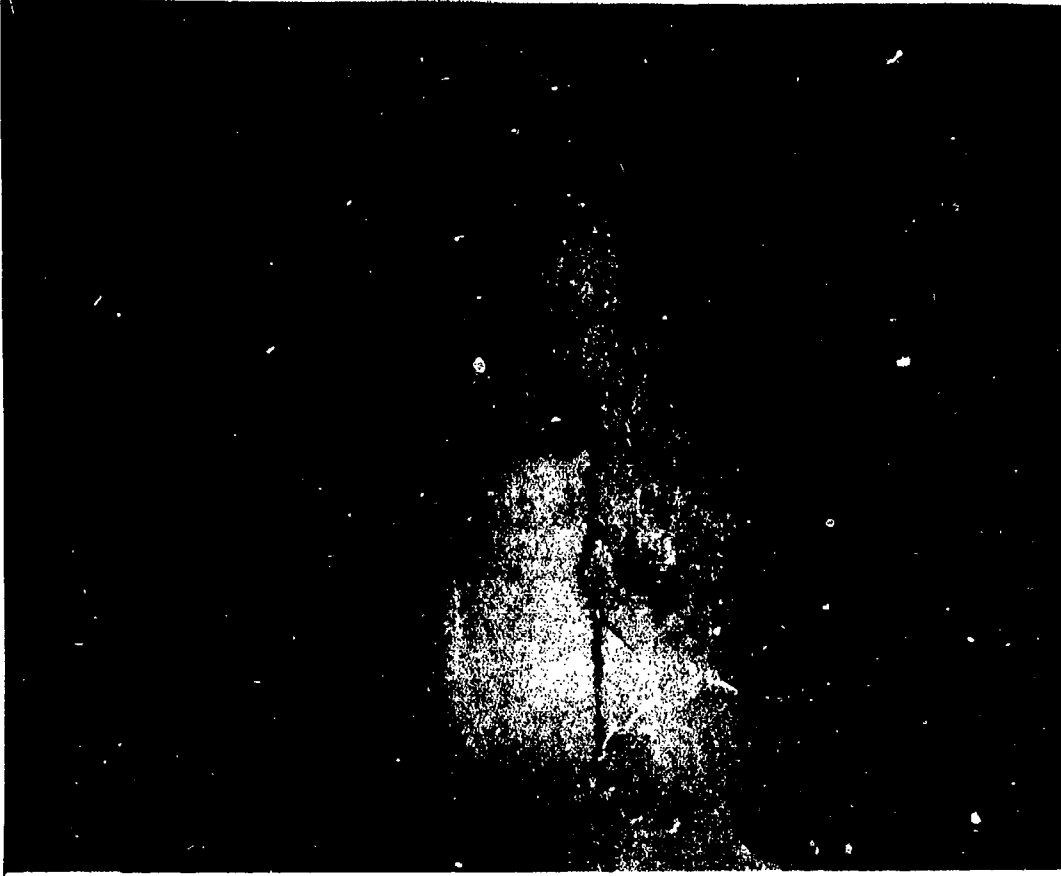
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AA-CR-68-2146-7. Starboard aft leg, frame 103, underside of main deck, showing lifting of plate from longitudinals and beams.

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AA-CR-68-2111-10. Port aft leg above wrapper plate - looking to starboard.

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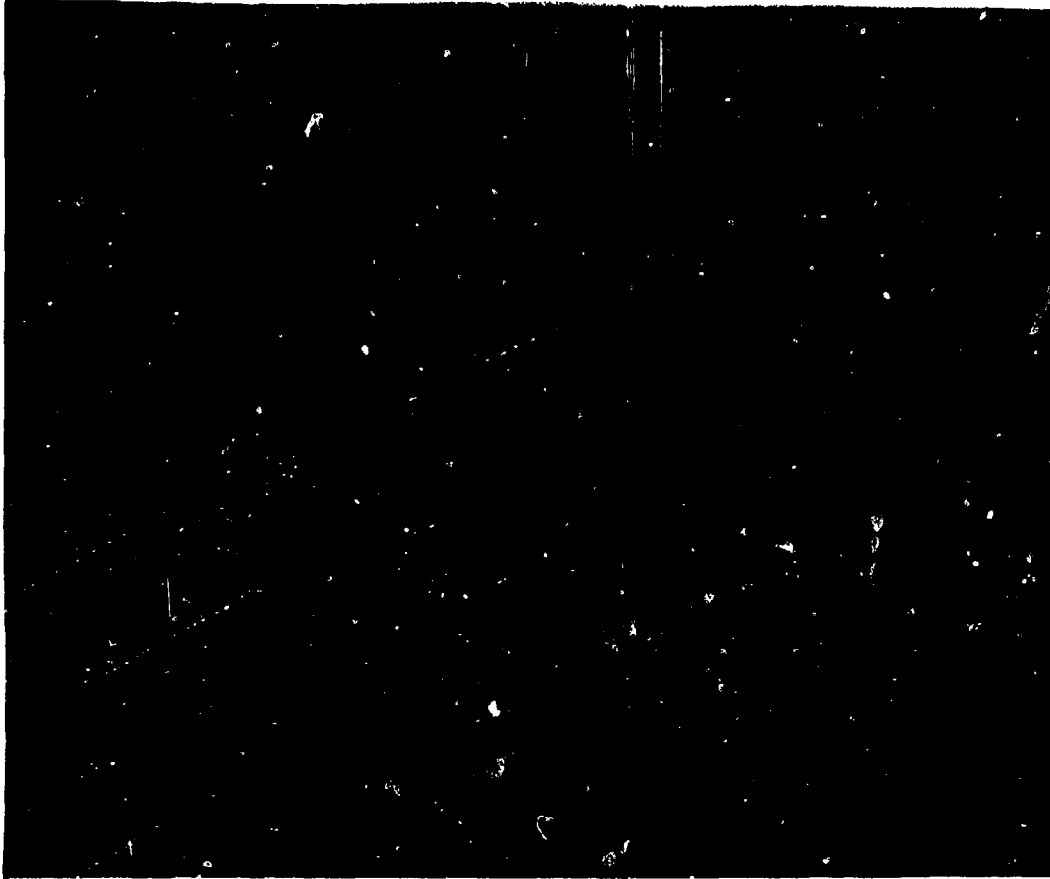
AA-CR-175-2134-7. Port after leg of after tripod, looking to starboard, showing wrinkle at top of wrapper plate, see also 2111-10.

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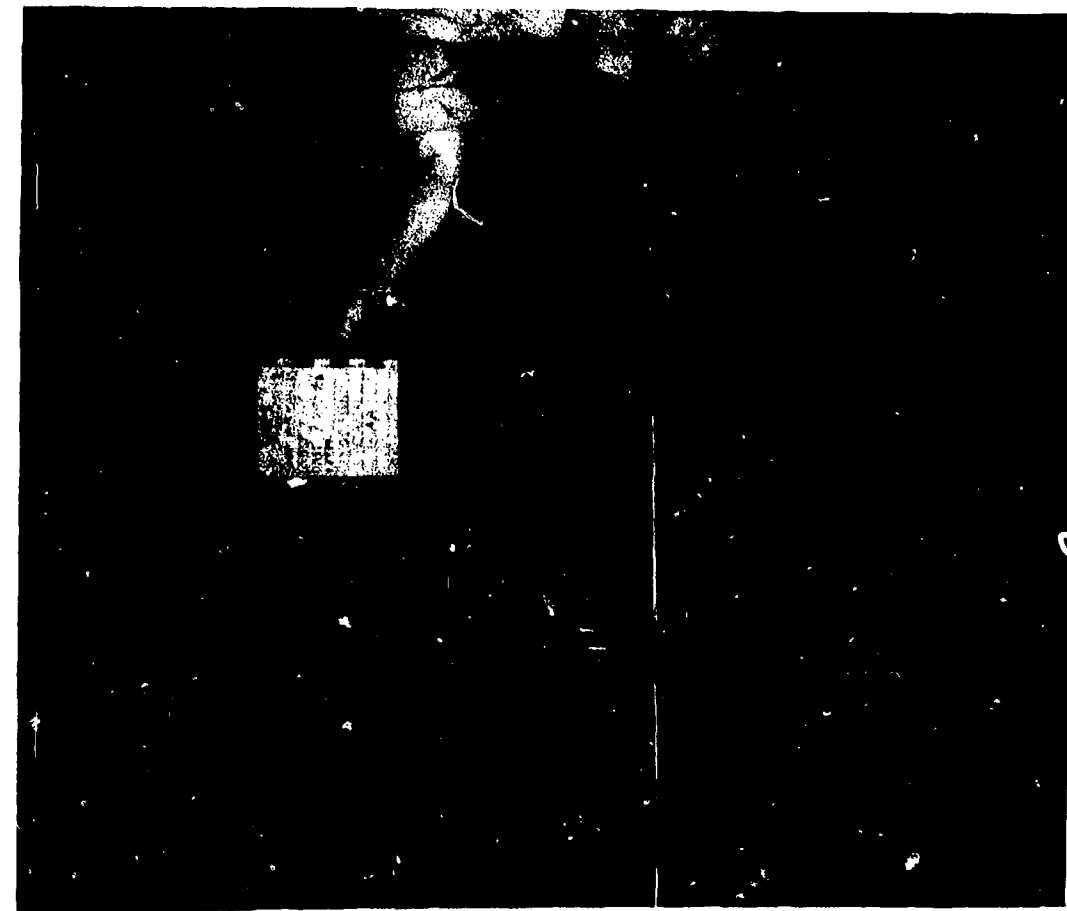
AA-CR-68-2111-9. Port aft leg-mainmast showing wrinkle between leg and wrapper plate.

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AA-CR-68-2089-9. Looking aft at wrinkle in forward leg of mainmast.

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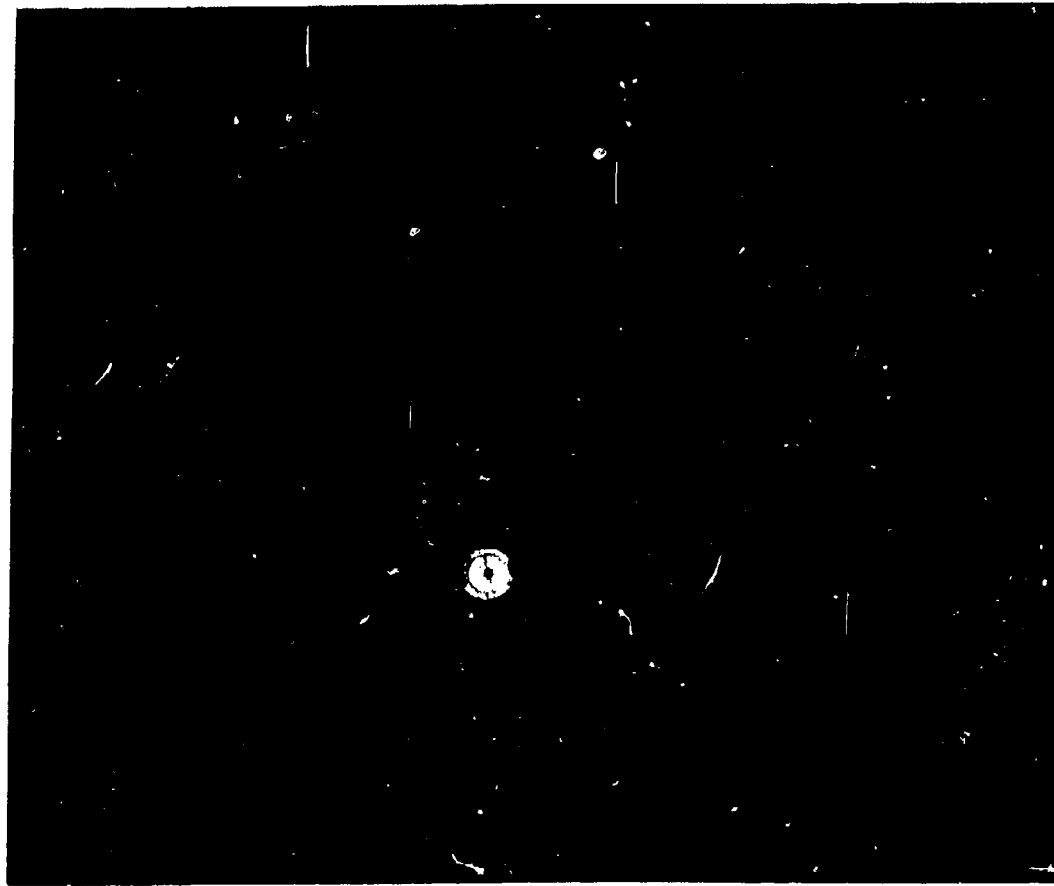


AA-CR-68-2111-7. Foreleg-mainmast tripod - looking at port side, wrinkle in leg.

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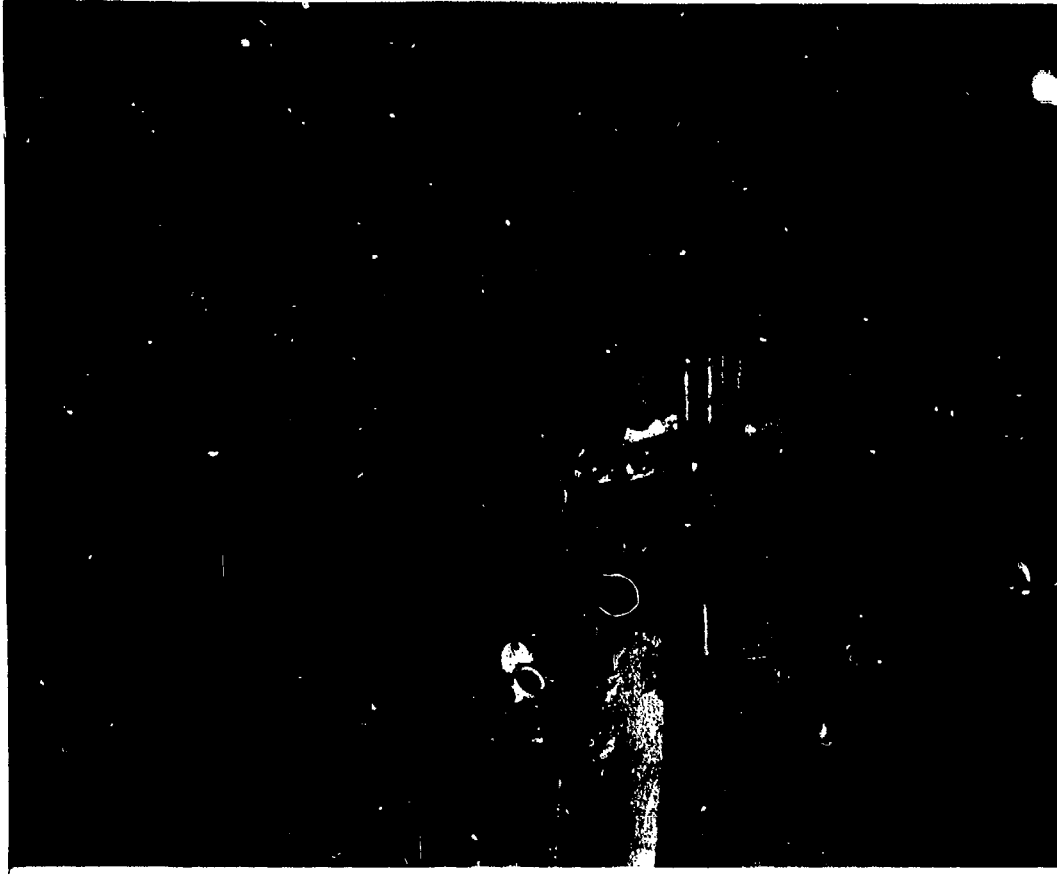


AA-CR-68-2111-8. Foreleg - mainmast tripod looking at wrinkle from starboard side.

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AA-CR-175-2134-8. Forward leg of after tripod showing wrinkling at top of wrapper plate, and opening of seam on port side.

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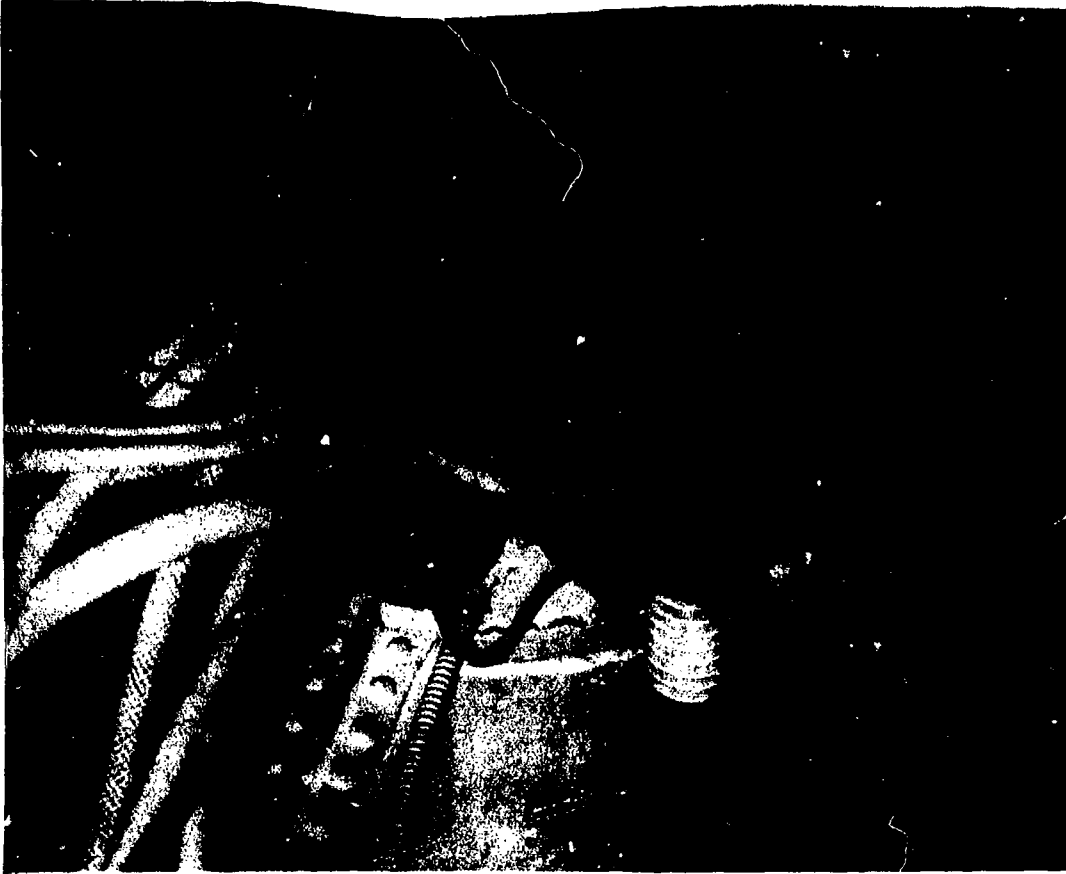


AA-CR-68-2148-10. Center leg, after tripod, frame 99, looking aft at underside of main deck.

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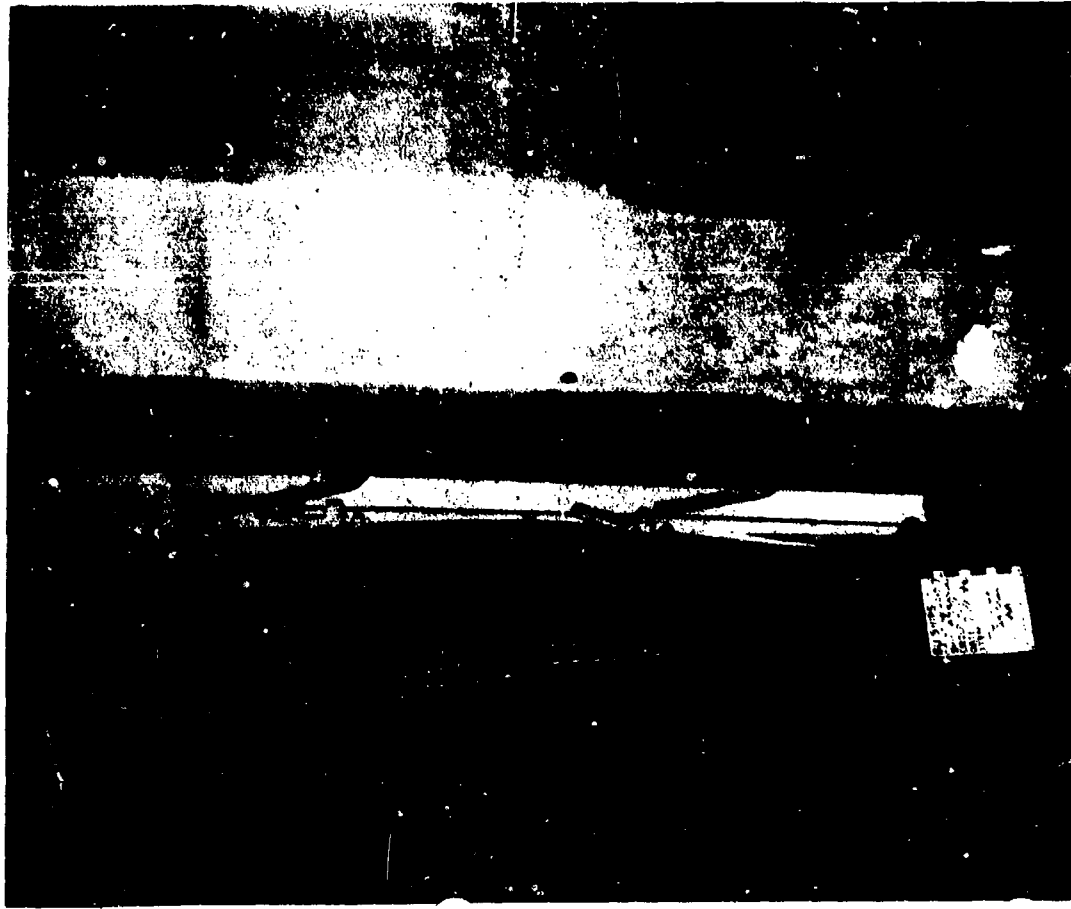


AA-CR-68-2148-9. Center leg, after tripod, frame 99, looking aft at underside of second deck.

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AA-CR-68-2089-7. Looking forward from frames 103, port main deck. Showing damage to bulkhead and door of 20MM clipping room and bent stanchion supporting 20MM gun platform.

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AA-CR-68-2089-10. Looking inboard and aft at mainmast structure, note structure pulled upward at 01 level, starboard, after corner and forward stanchion buckled.

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AA-CR-68-2111-11. Mainmast structure starboard side - looking forward and up at opening of structure at 01 level.

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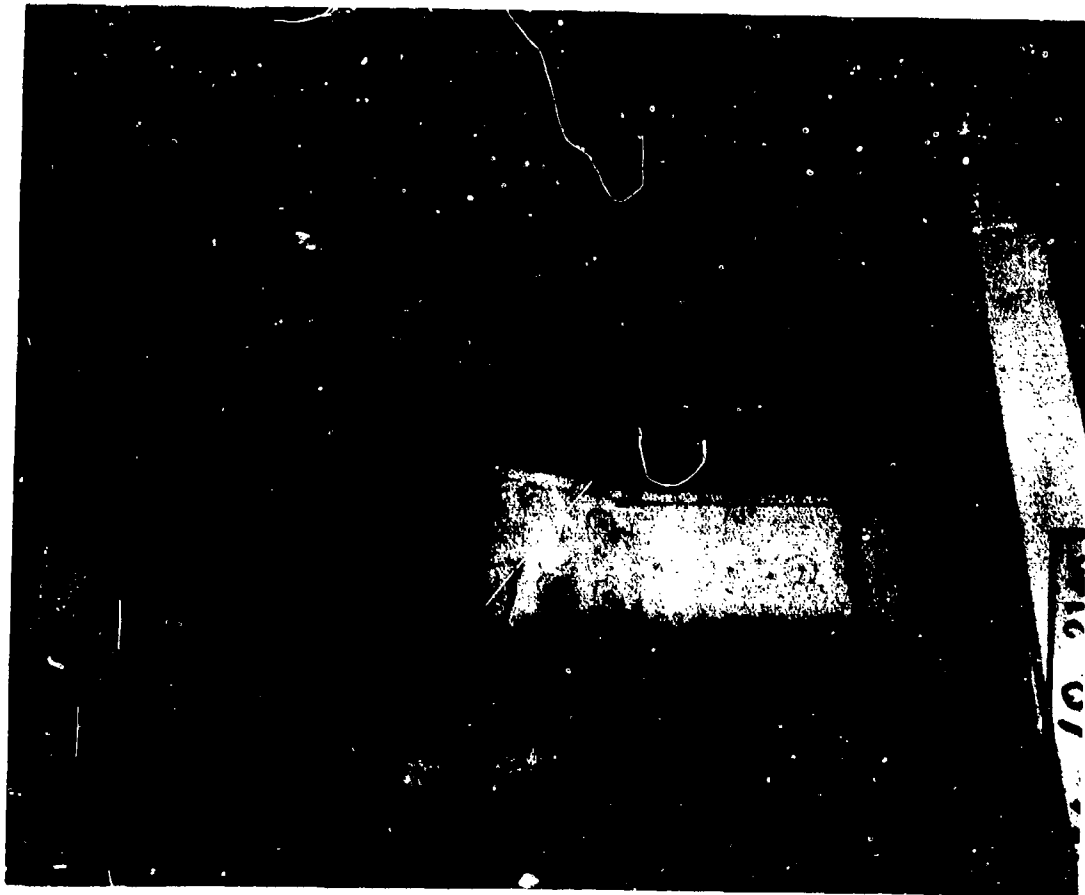
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AA-CR-92-1783-4. Centerline of aft superstructure at frame 102, showing opening at 01 level. Note tear between 01 level deck and after bulkhead.

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AA-CR-68-2146-3. Aft starboard leg, wrinkle in deck at O1 level.

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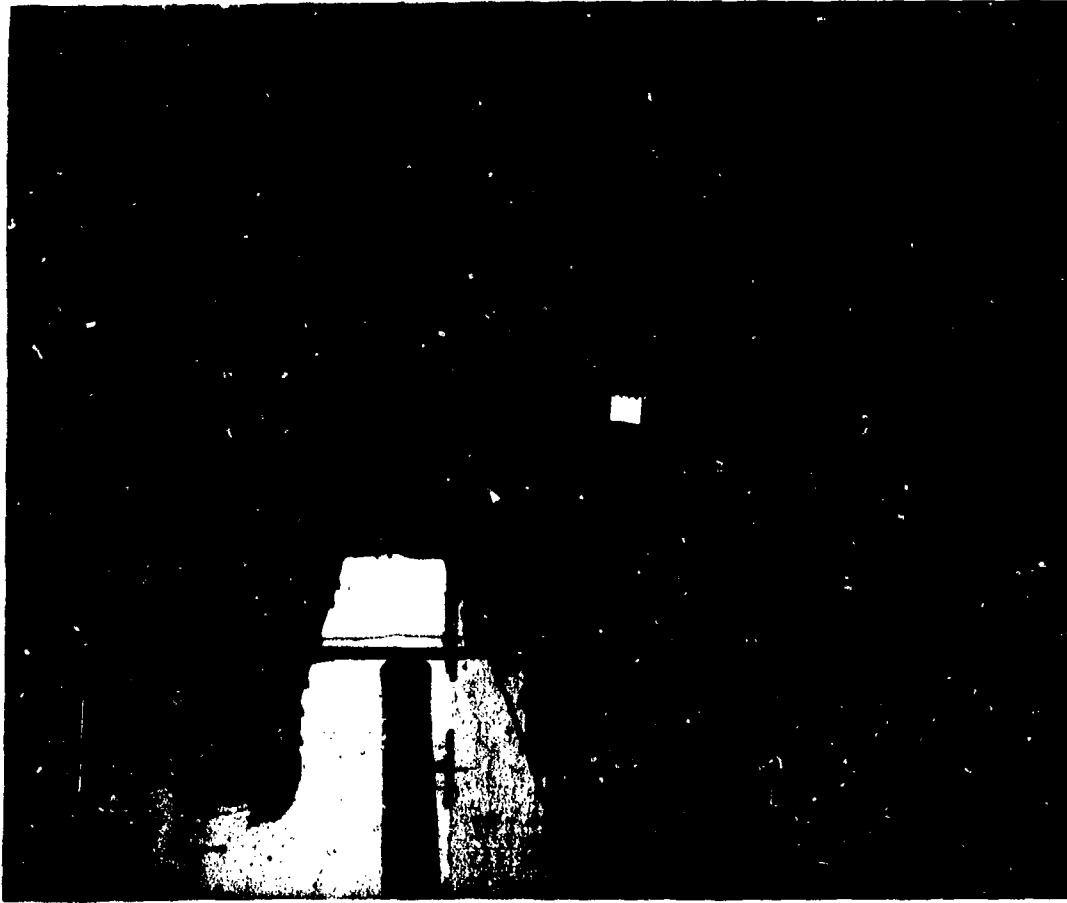


AA-CR-66-2097-5. Mainmast structure O1 level, starboard. Dished door.

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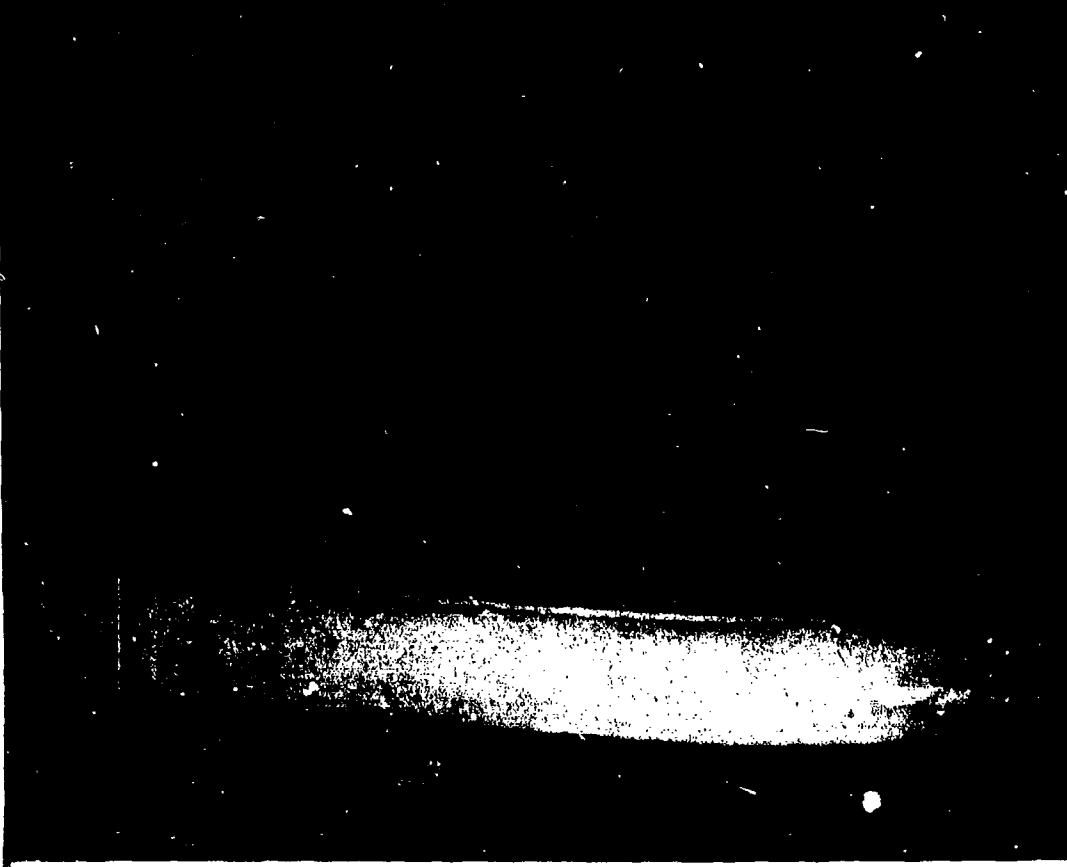


AA-CR-68-2089-8. Looking inboard from frame 98, port, towards bent stanchion supporting 20MM gun platform and at wrinkle in forward leg of mainmast.

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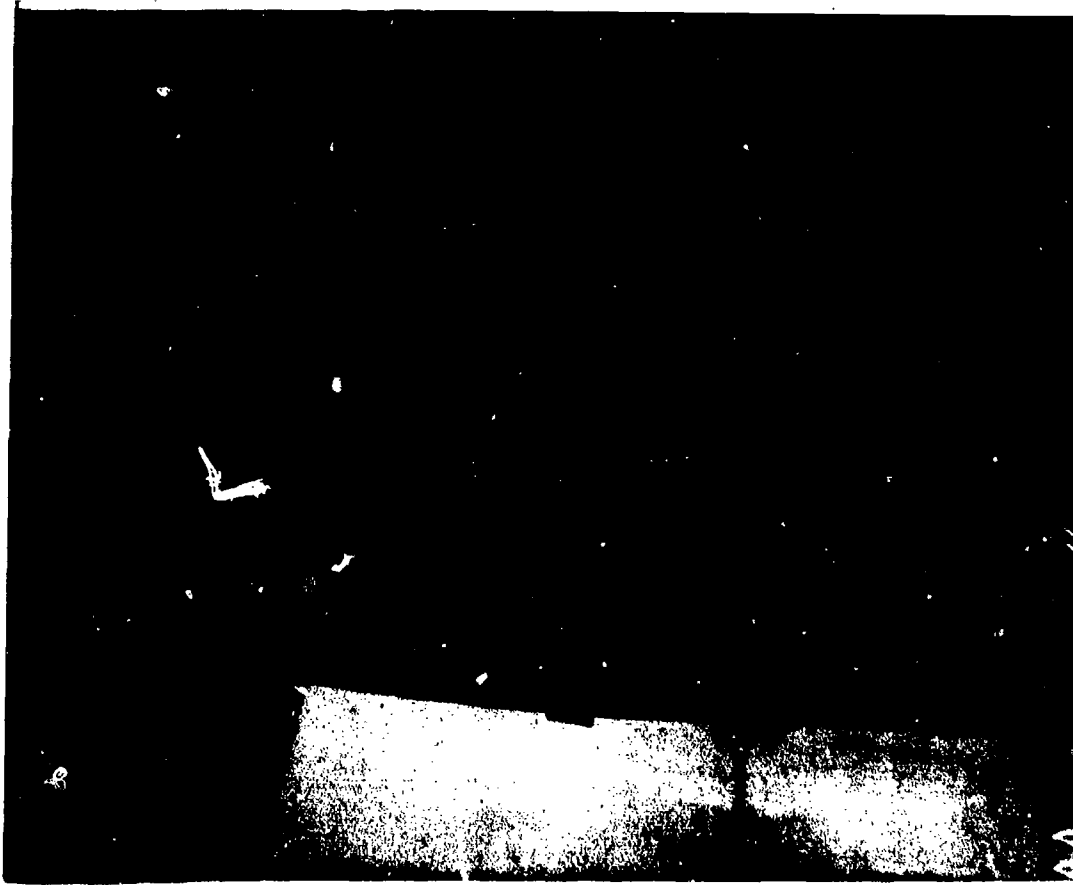


AA-CR-68-2146-2. 02 level, showing crack around starboard aft leg of mainmast.

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AA-CR-68-2097-4. Mainmast, 03 level, starboard, broken pipe support for blinker searchlight.

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AA-CR-68-2097-1. Mainmast, 04 level, starboard, damage to bulwark and venturi.

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AA-CR-68-2097-2. Mainmast, 04 level, port scorched paint and damage to equipment.

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AA-CR-92-1775-3. Looking aft at damaged 36 inch searchlight displaced from mainmast. Frame 82, port, main deck.

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AB-CR-234-1991-1. Turret 4, right trunion of right gun. Fracture in trunion block at forward end of trunion cup.

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AB-CR-234-1991-2. Turret 4, right trunion of right gun. Crack in trunion block at after end of trunion cap.

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AB-CR-234-1991-4. Turret 4, right trunion of right gun. Displacement of trunion.

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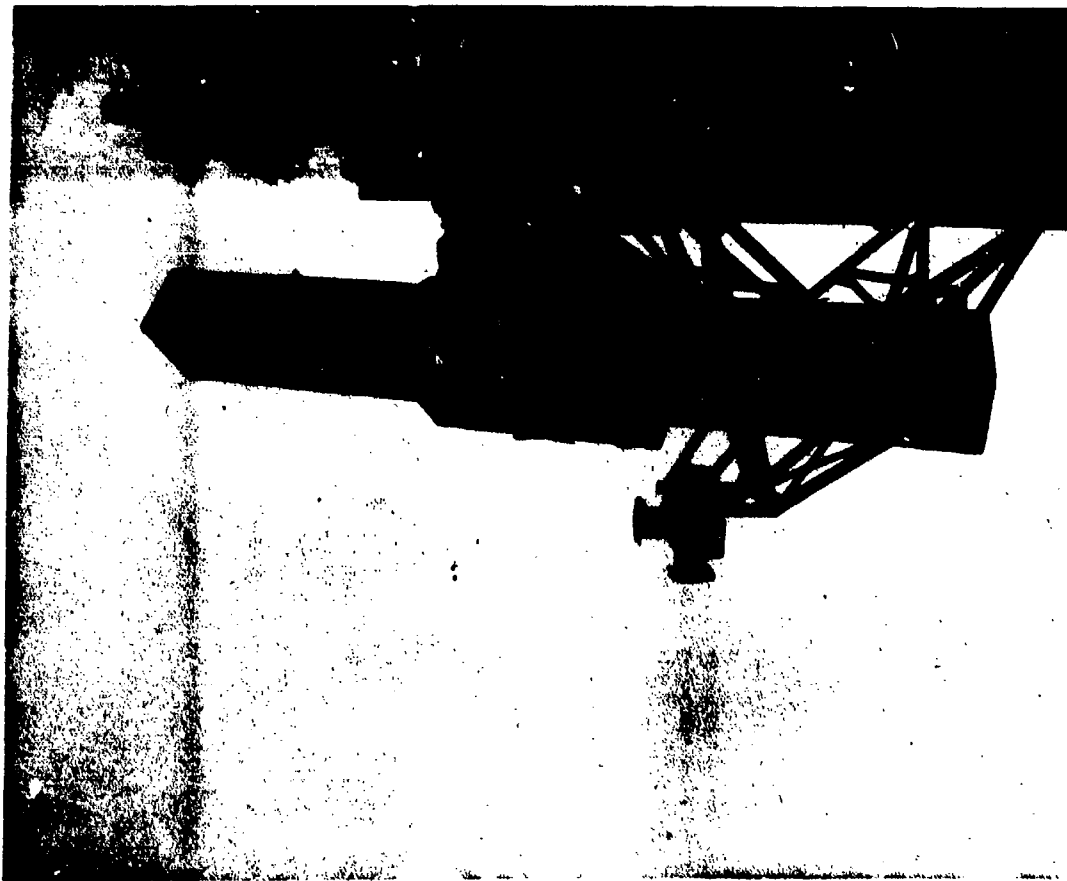


AA-CR-80-1897-9. Looking aft at rangefinder displaced from atop turret 2. Main deck starboard, frame 35.

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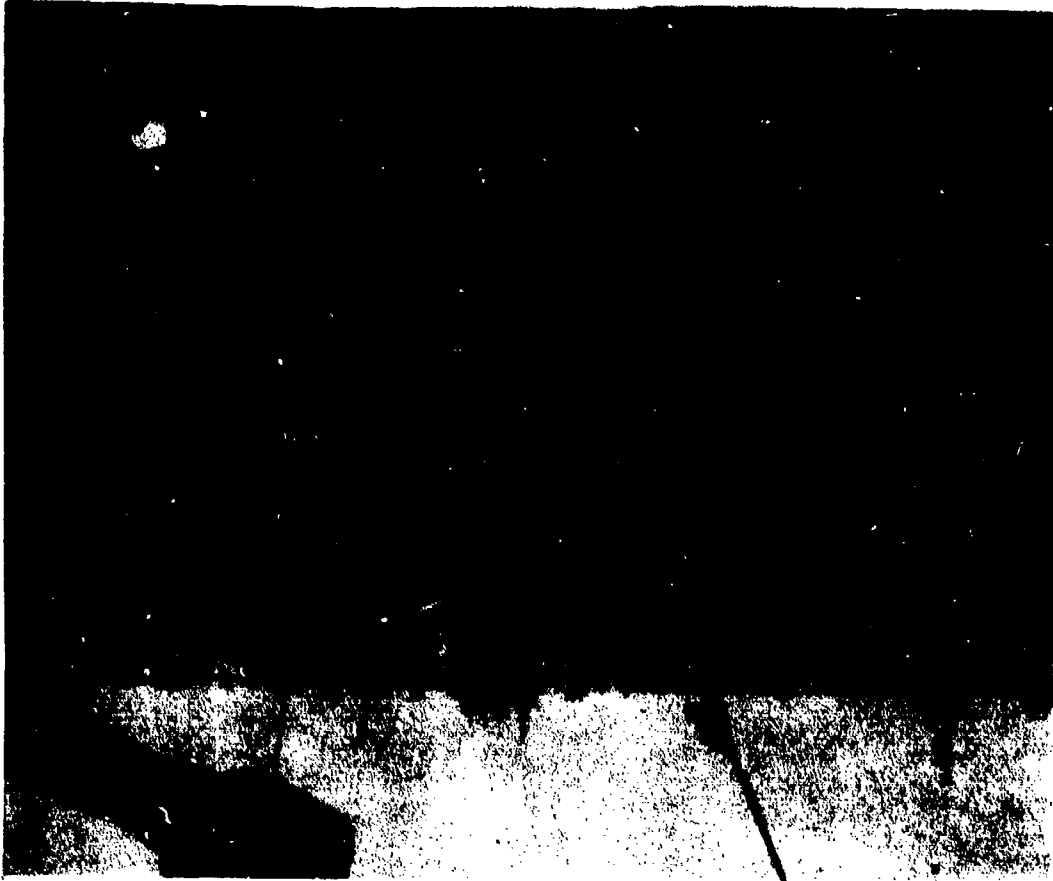
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AA-CR-82-1775-8. Displaced rangefinder atop turret 5.

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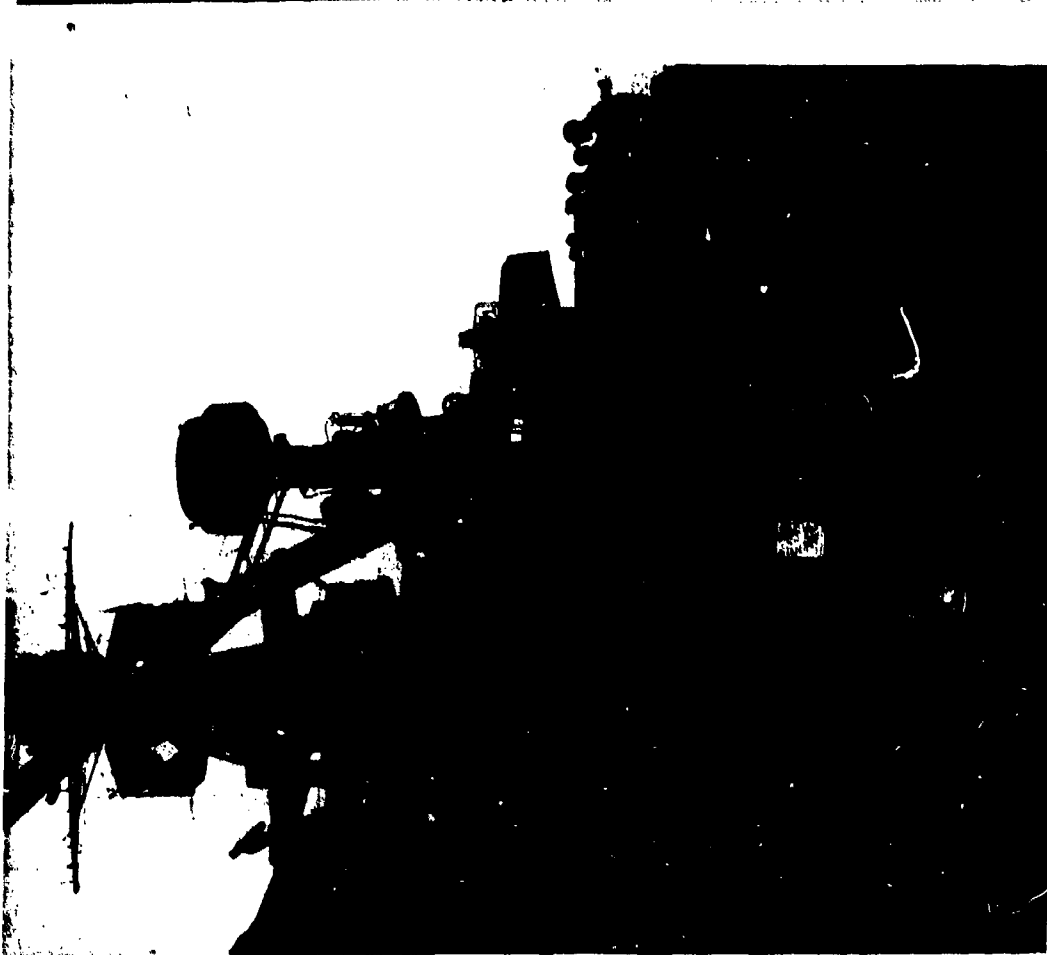
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AA-CR-68-2091-2. Looking forward on forecastle from frame 28, port.

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AA-CR-68-2090-1. Looking forward along main deck from frame 90, starboard.

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AA-CR-68-2090-2. Looking aft and inboard at starboard sides of turrets 3 and 4. Main deck is slightly dished in this area.

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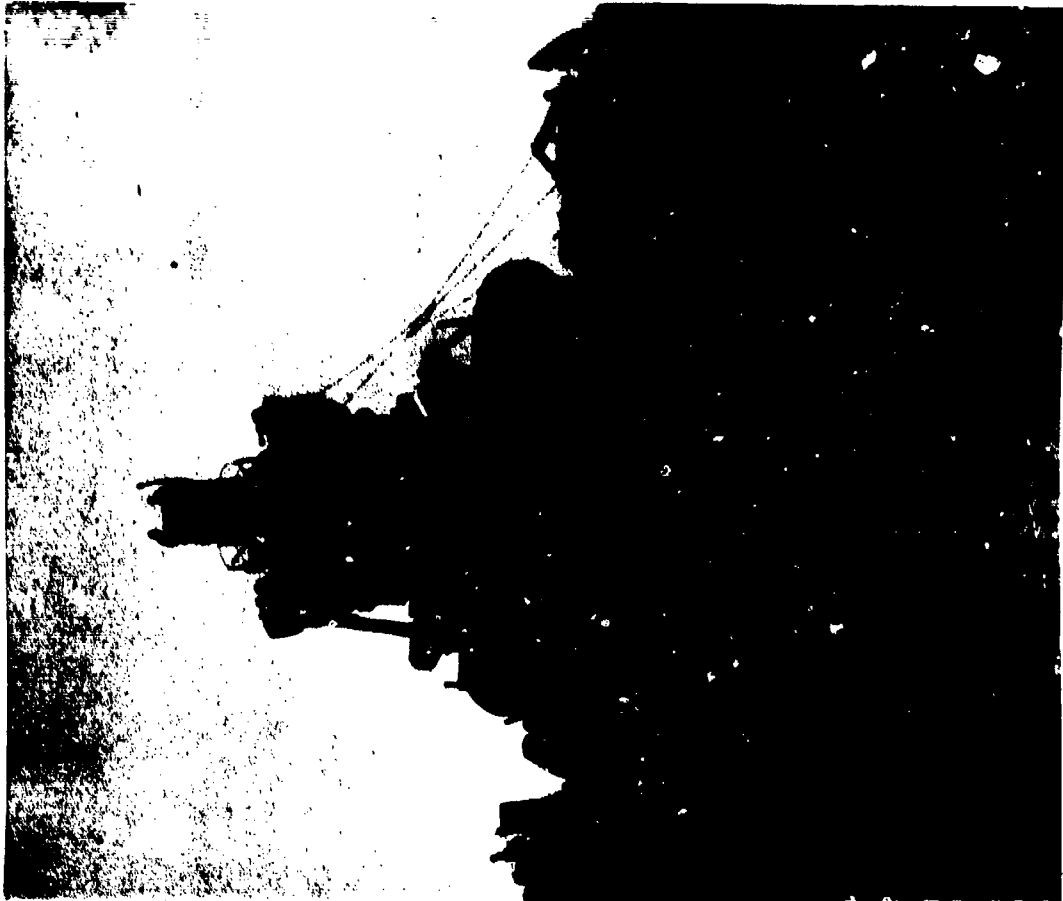


AA-CR-68-2089-2. Looking forward and to port showing damaged area of main deck aft of turret 6.

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AA-CR-68-2089-1. Looking forward towards Turret 6 showing damaged area of main deck.

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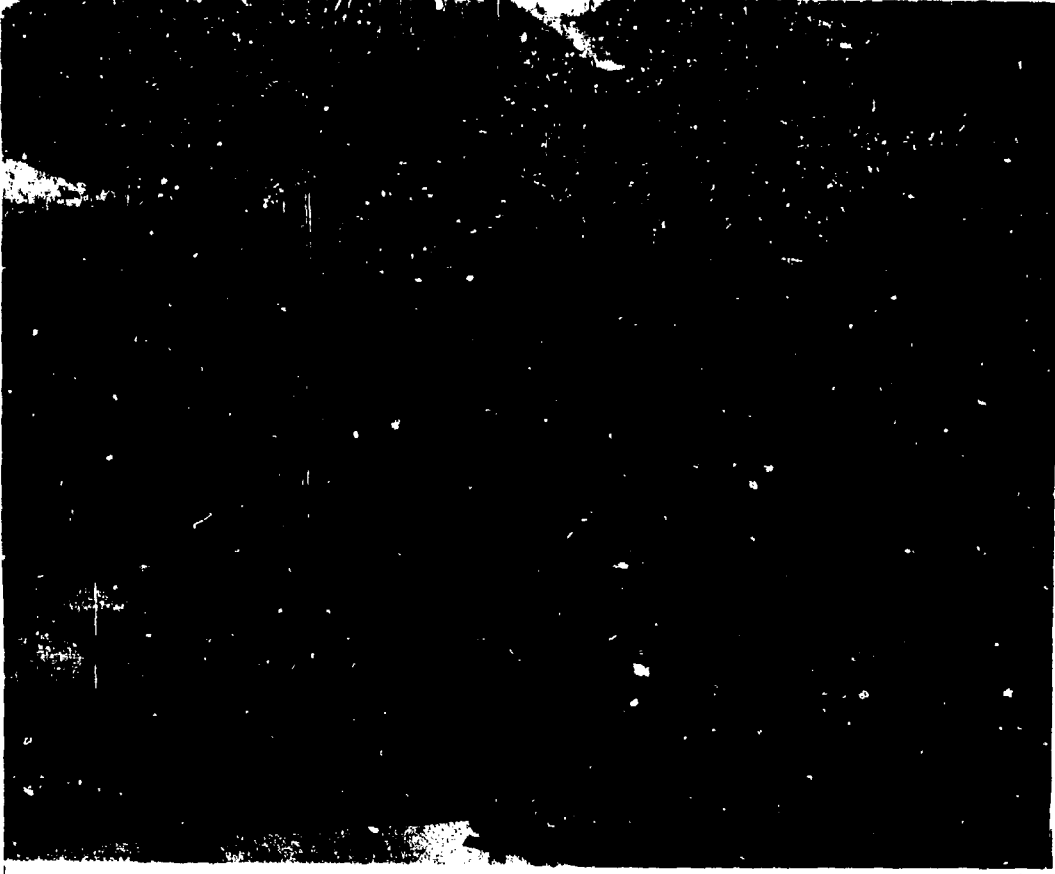


AA-CR-68-2089-3. Looking forward and to starboard showing damaged area of main deck aft of Turret 8.

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AA-CR-92-1775-1. Looking forward and to starboard at dished area of main deck aft of Turret 6.

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AA-CR-175-1134-3. Major deck depression in main deck aft of Turret at about frame 126.

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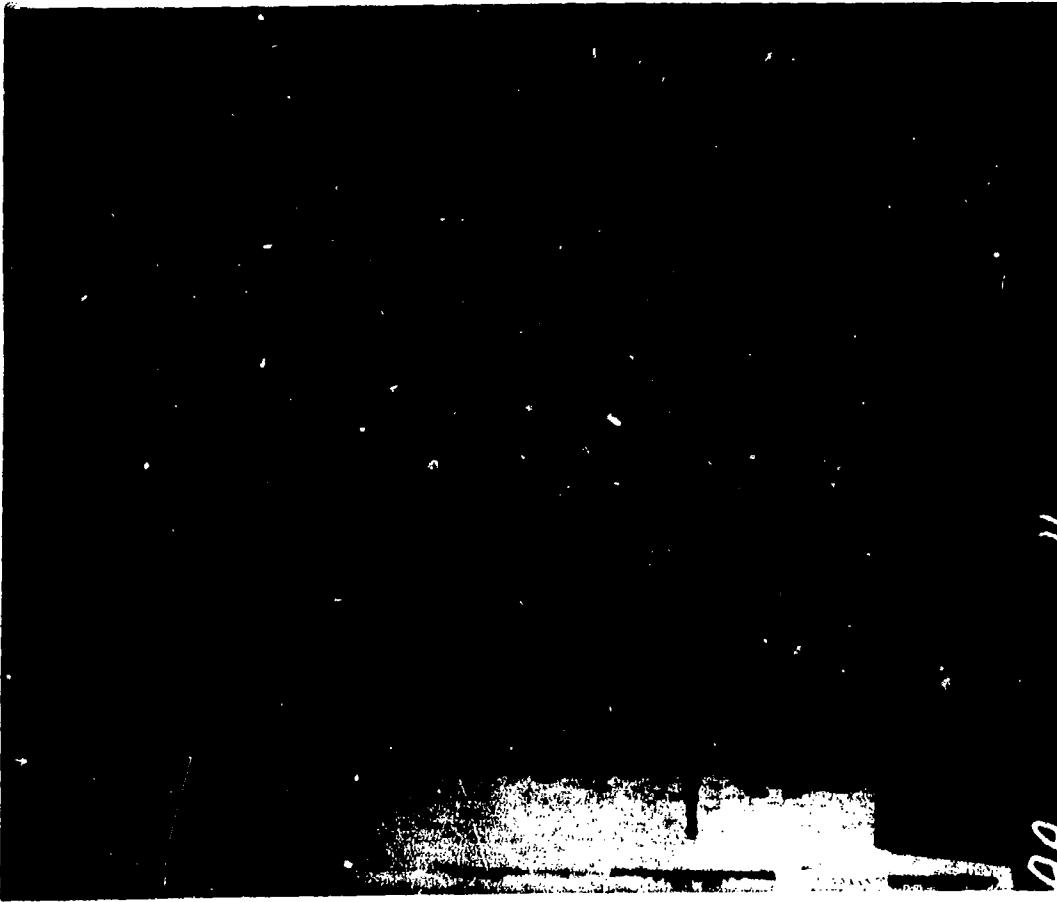
AA-CR-68-2089-5. Looking to starboard at frame 123, showing damaged area of main deck.

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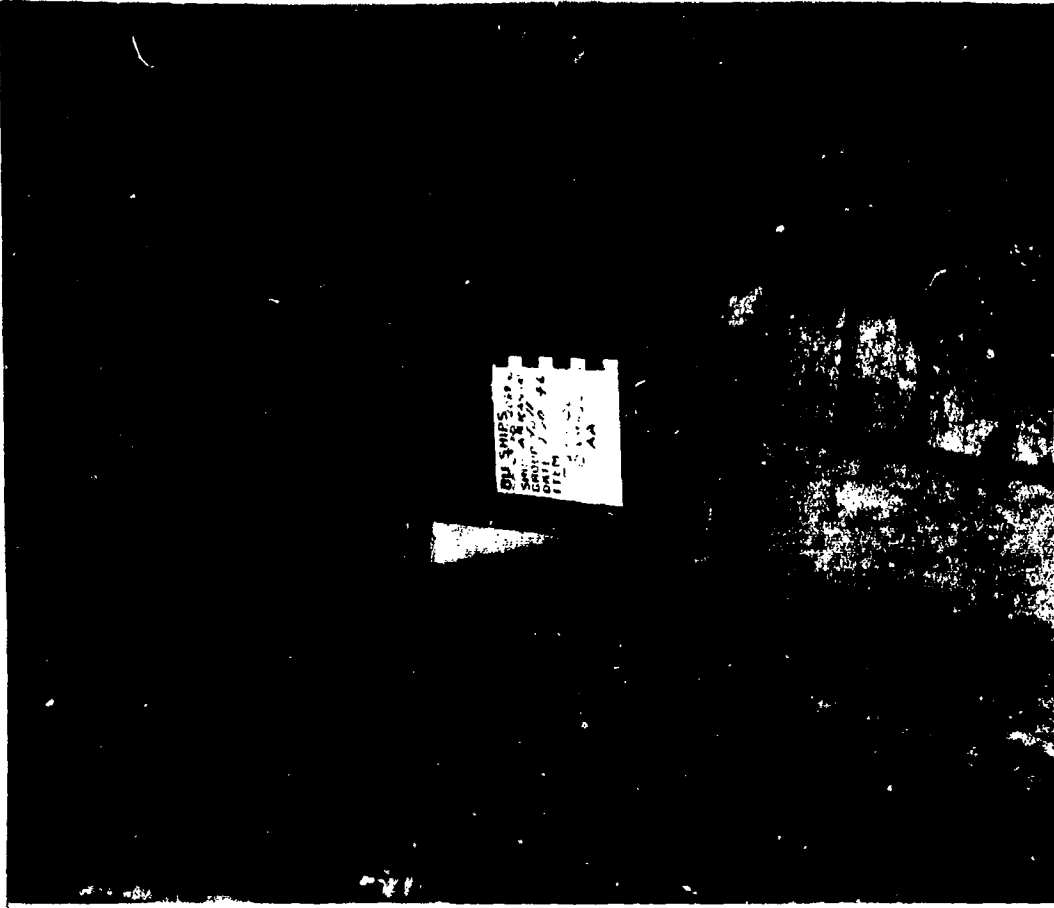
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AA-CR-68-2089-4. Looking to port at frame 123, main deck, showing damaged area of main deck.

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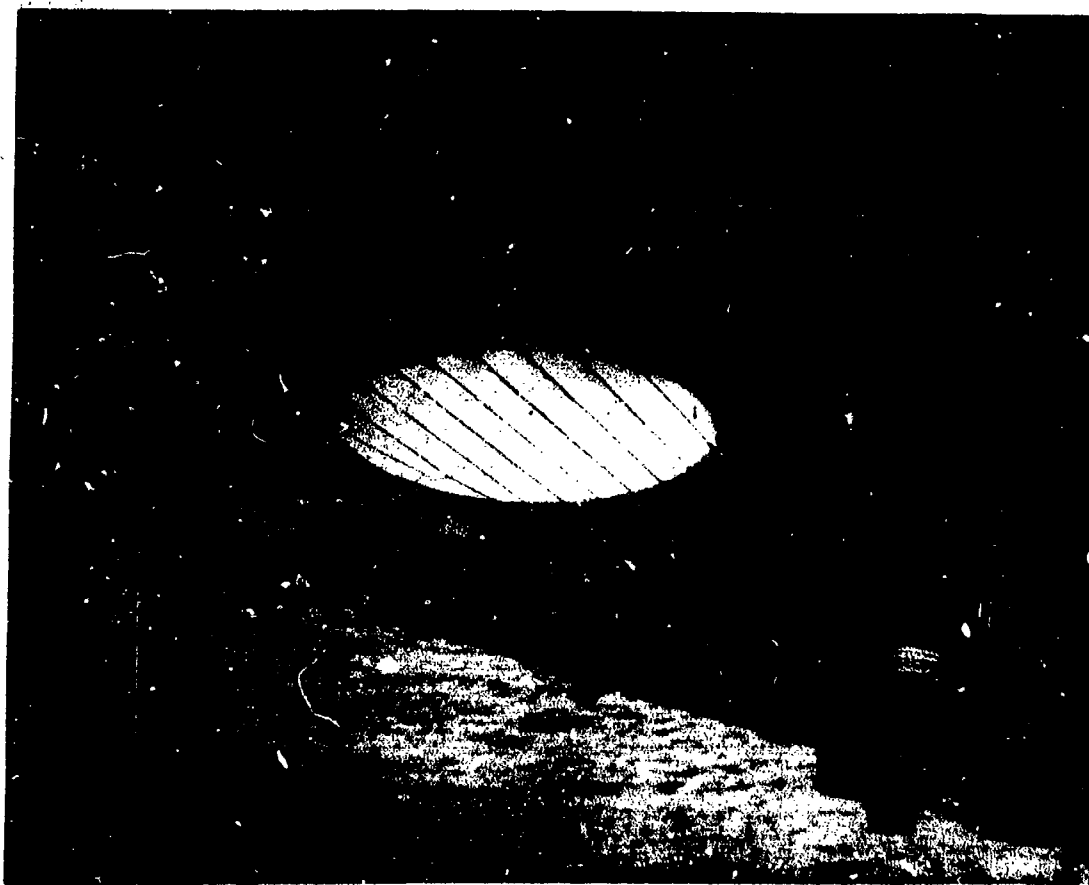
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AA-CR-68-2089-6. Separation of carling from Turret 6 in way of connection to main deck at frame 122, centerline.

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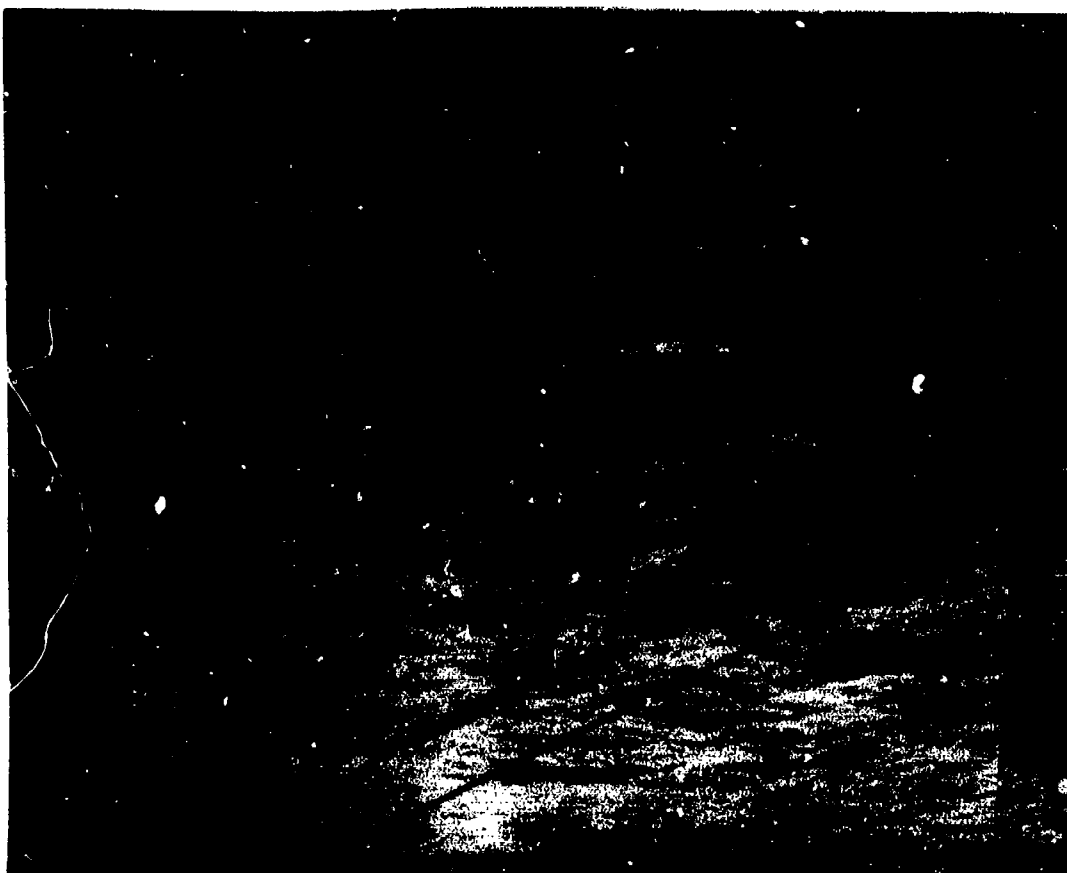
AA-CR-92-1775-8. Shadow on main deck frame 129, port, main deck.

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AA-CR-80-1895-12. General view of displaced equipment on main deck. Looking aft and to starboard from mainmast.

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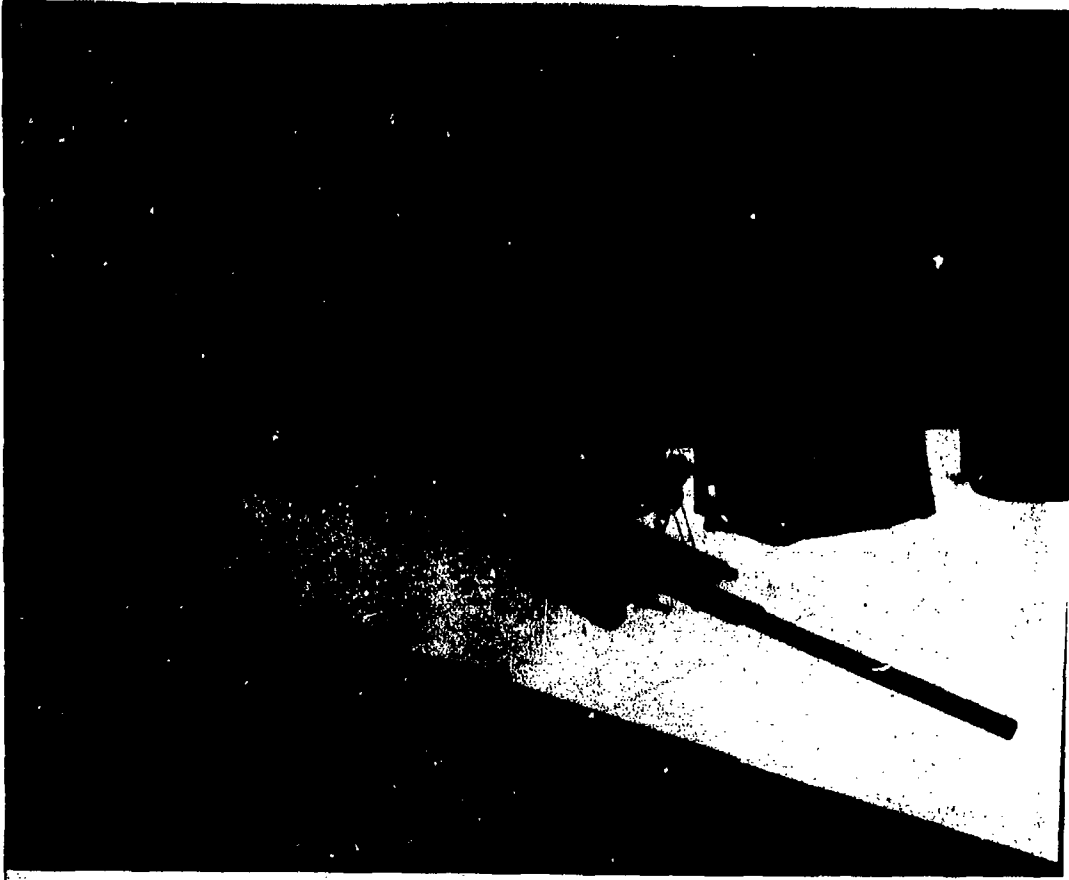


AA-CR-92-1775-2. Looking forward from frame 85, main deck, port.
General view showing displaced equipment.

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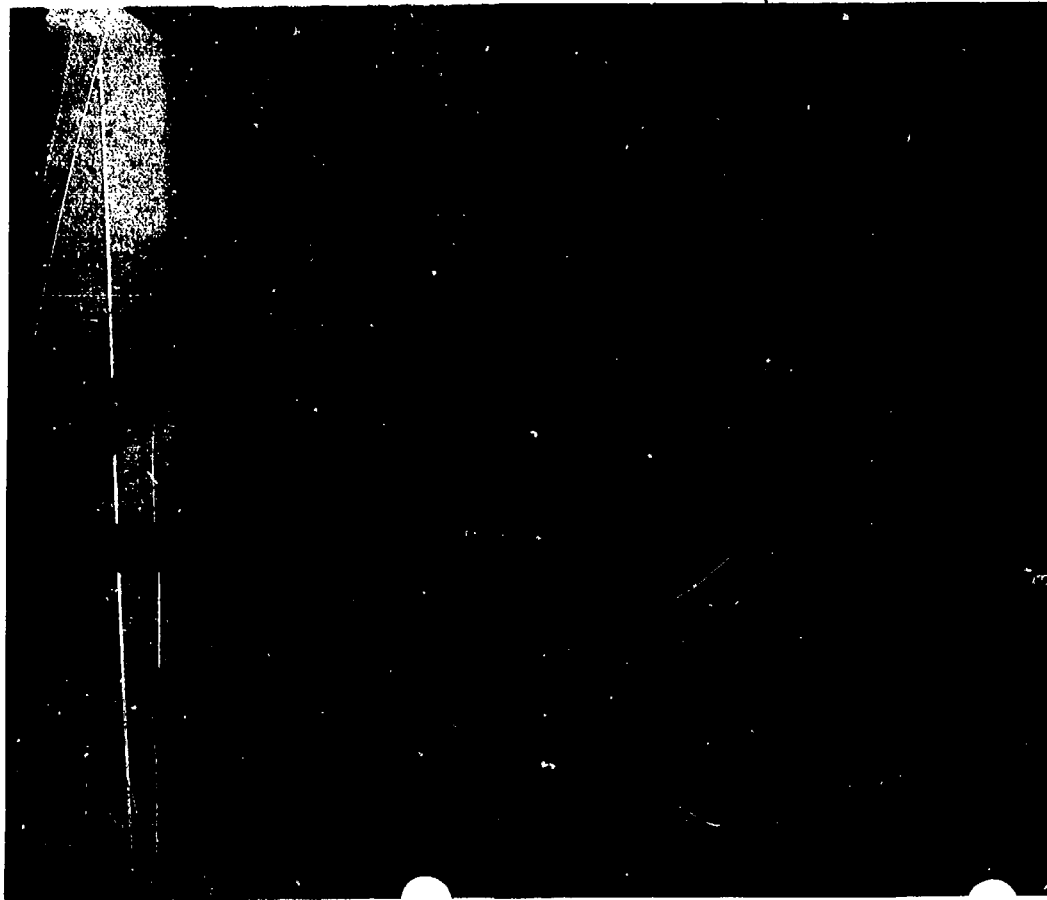


AA-CR-92-1775-5. Looking aft at displaced and damaged equipment.
Frame 85, starboard, main deck.

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AA-CR-92-1775-11. General view looking aft from bridge deck.

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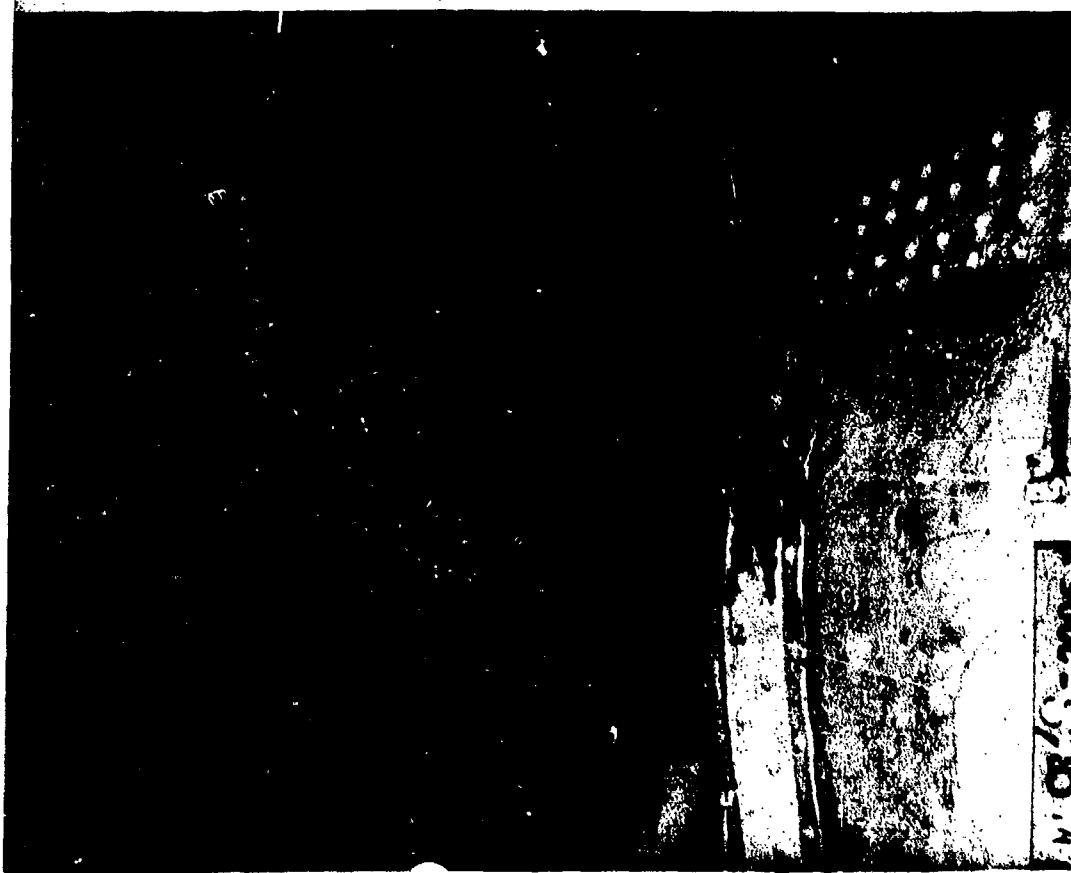


AA-CR-68-2090-8. Condition of starboard blister, top and shell plating aft.

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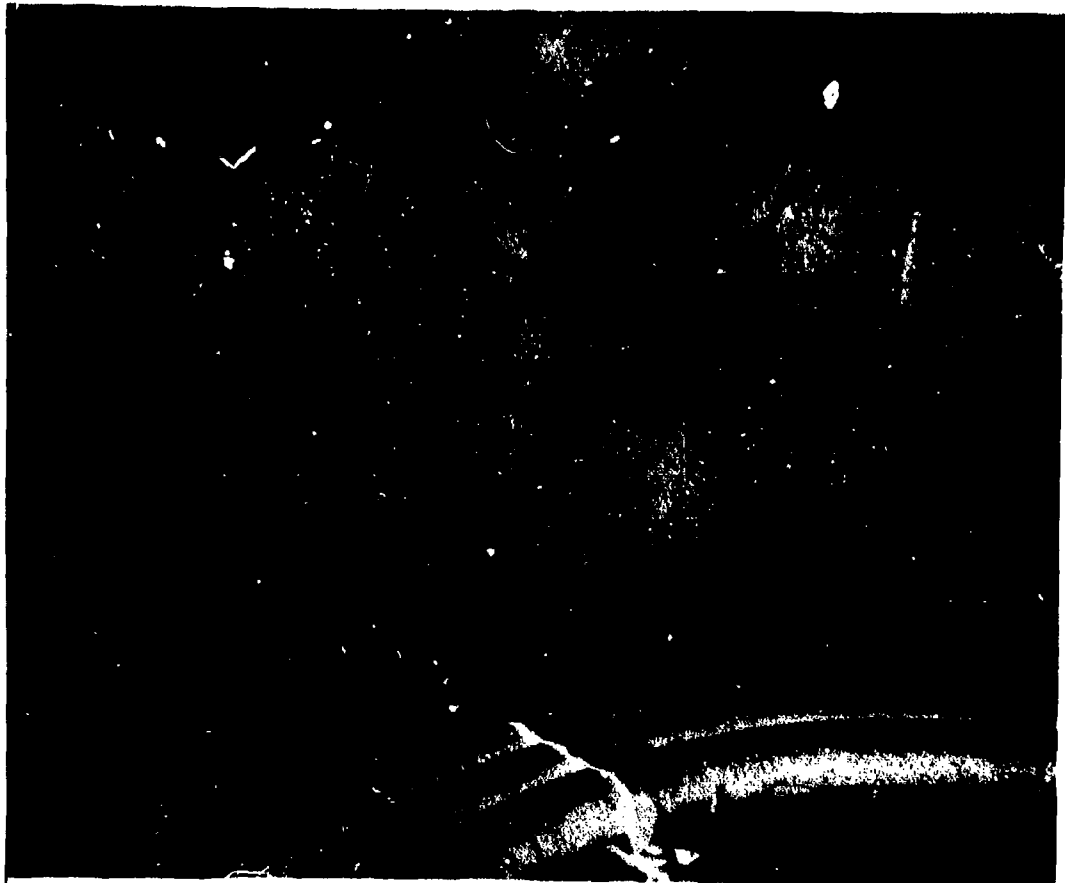


AA-CR-68-2086-8. Looking aft from frame 129, starboard, at dished shell plating and framing.

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AA-CR-68-2091-11. Looking outboard at failure of weld between shell and main deck, frame 64 to 66, starboard, second deck.

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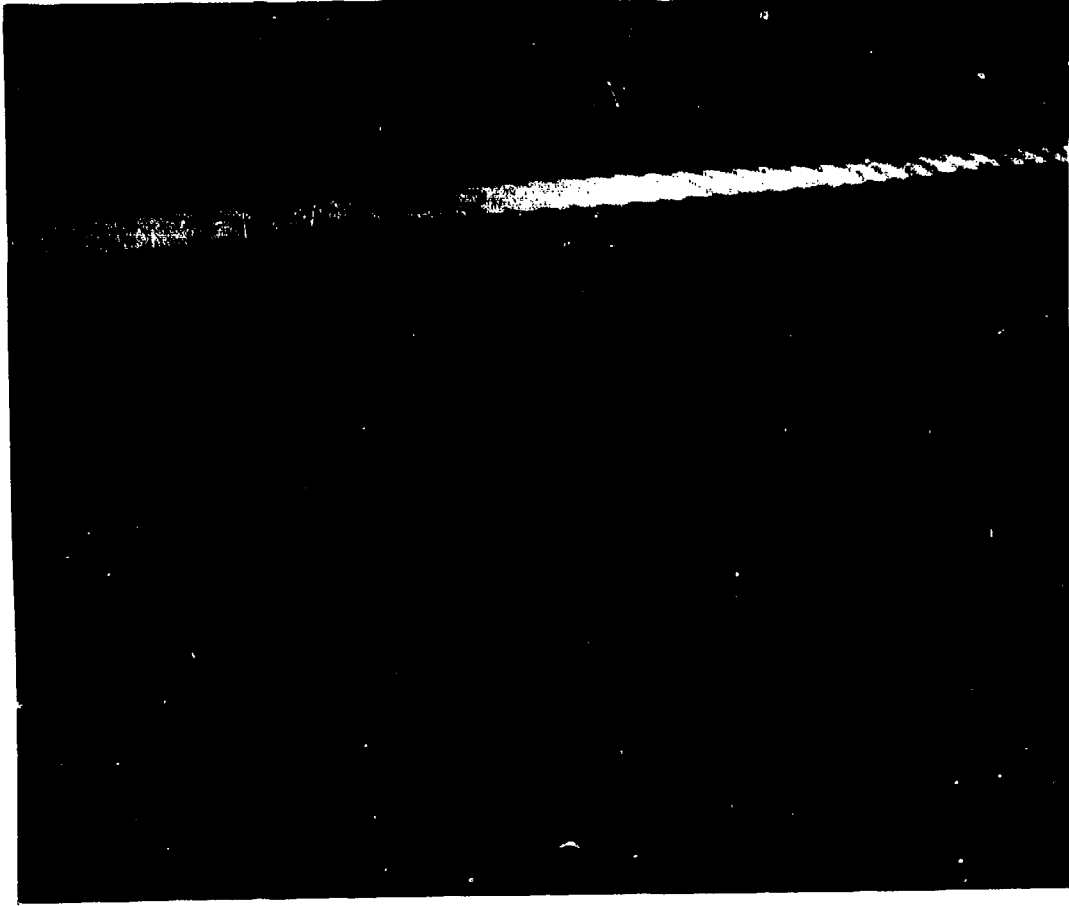
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AA-CR-68-2090-7. Dished plating on starboard blister aft of frame 50.

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AA-CR-68-2090-9. Deflection of starboard blister plating above waterline, vicinity of frame 100.

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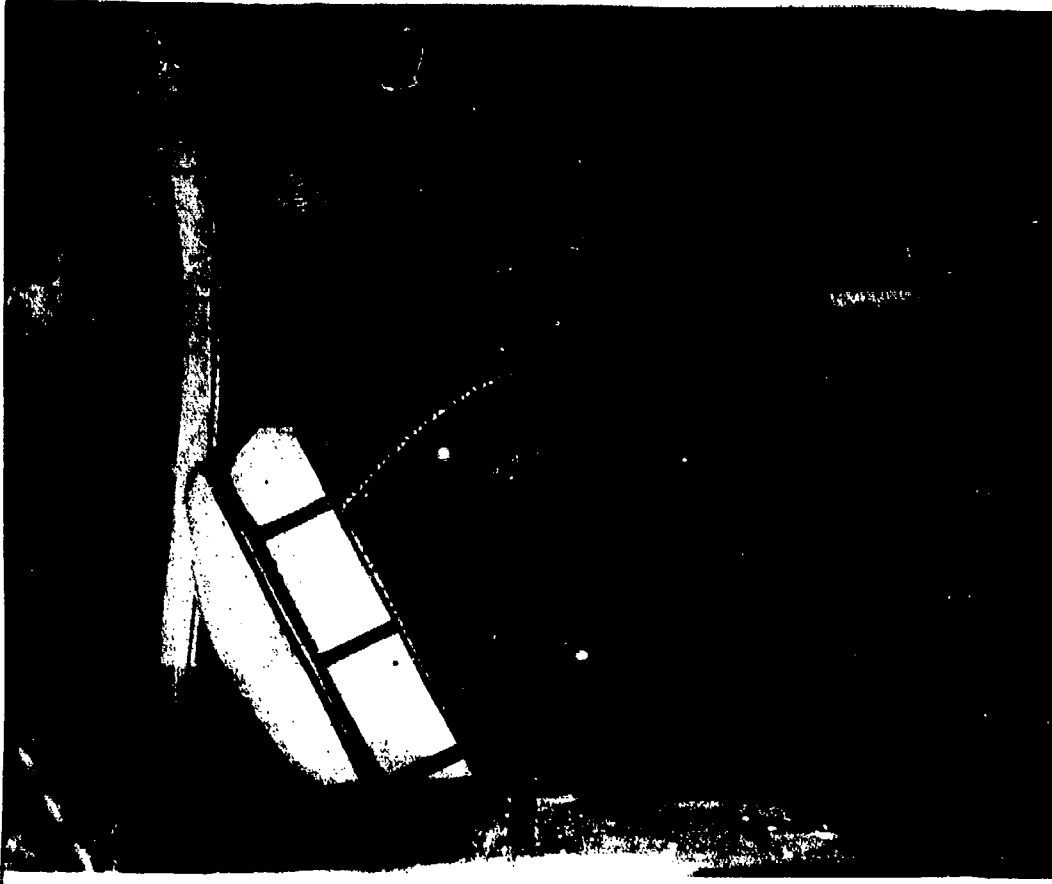
AA-CR-68-2091-12. Looking forward in crew's space, frames 62 to 69, starboard, showing deflection of overhead.

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AA-CR-68-2096-12. Second deck, sick bay, frame 104, starboard, showing distorted frame brackets.

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AA-CR-68-2098-2. Crew's space, second deck, looking aft from frame 117, starboard, at supporting structure under deflected main deck.

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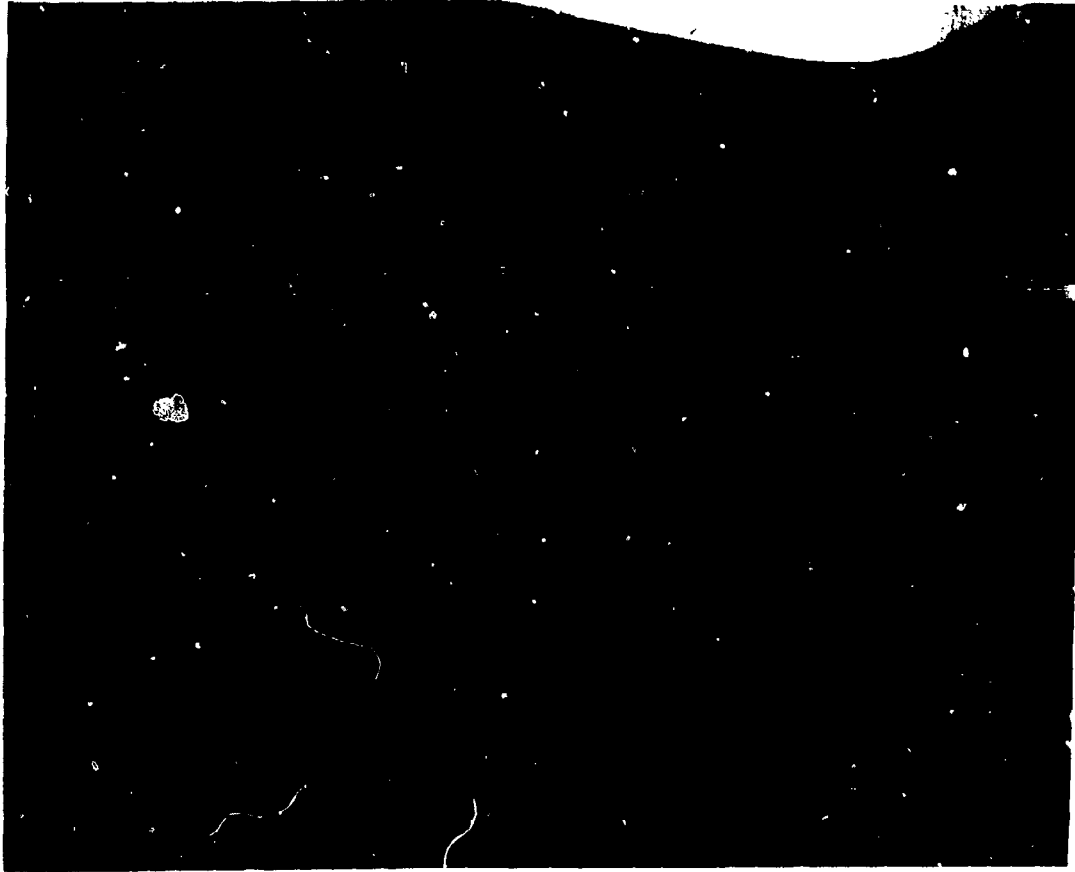


AA-CR-68-2096-11. Crew's space, second deck aft. Looking aft and inboard from frame 120, port, at damage in space under sagged area of main deck.

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AA-CR-68-2098-3. Crew's quarters, second deck, aft. Looking forward from frame 127, port, at damage to supporting structure below deflected main deck. Vent controller enclosure and support damaged, mechanism operable.

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AA-CR-68-2096-5. Looking to port at damage to equipment and supporting structure below deflected main deck, frame 125, centerline.

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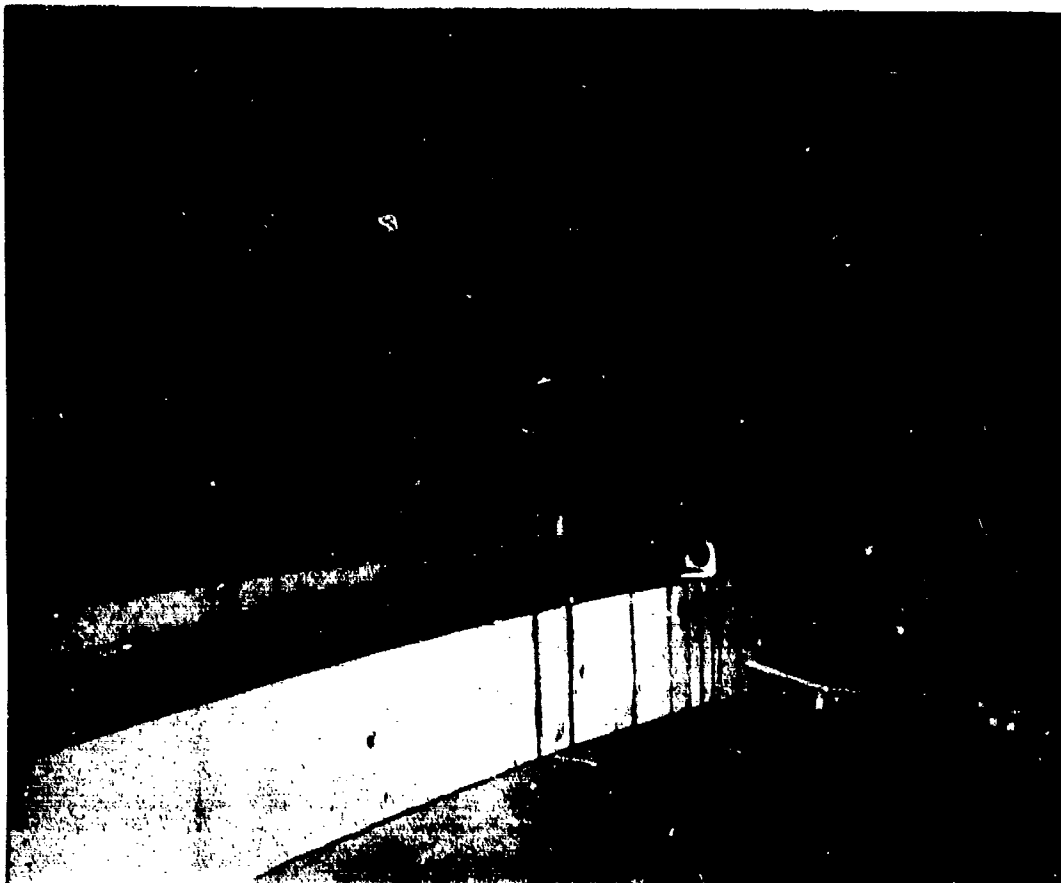


AA-CR-68-2098-10. Distortion of frame brackets, second deck, frame 122 and 123, port. Cables in rack pulled out due to structural distortion.

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AA-CR-175-2134-6. Second deck, looking aft and to starboard at the port bulkhead of crew's washroom, frames 125 1/2 and 129.

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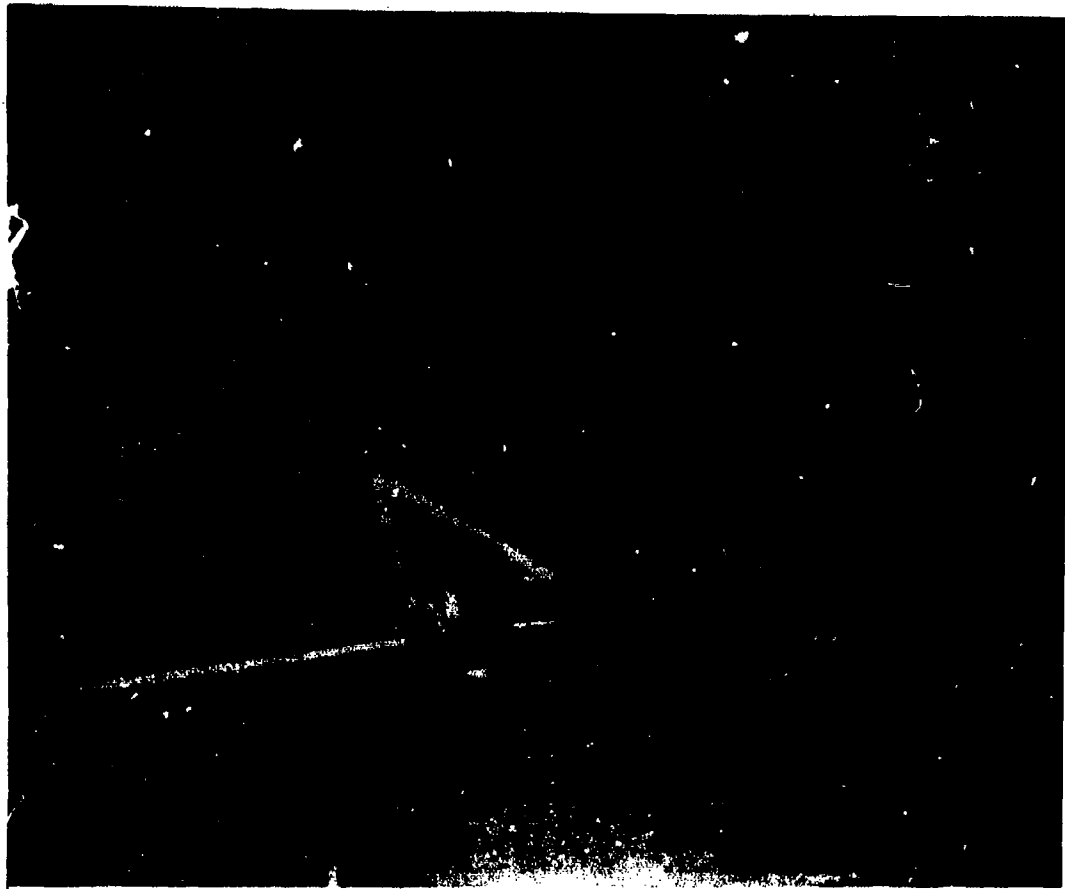
AA-CR-175-2134-4. Close-up of second deck failure in way of forward bulkhead of crew's washroom, frame 125 1/2.

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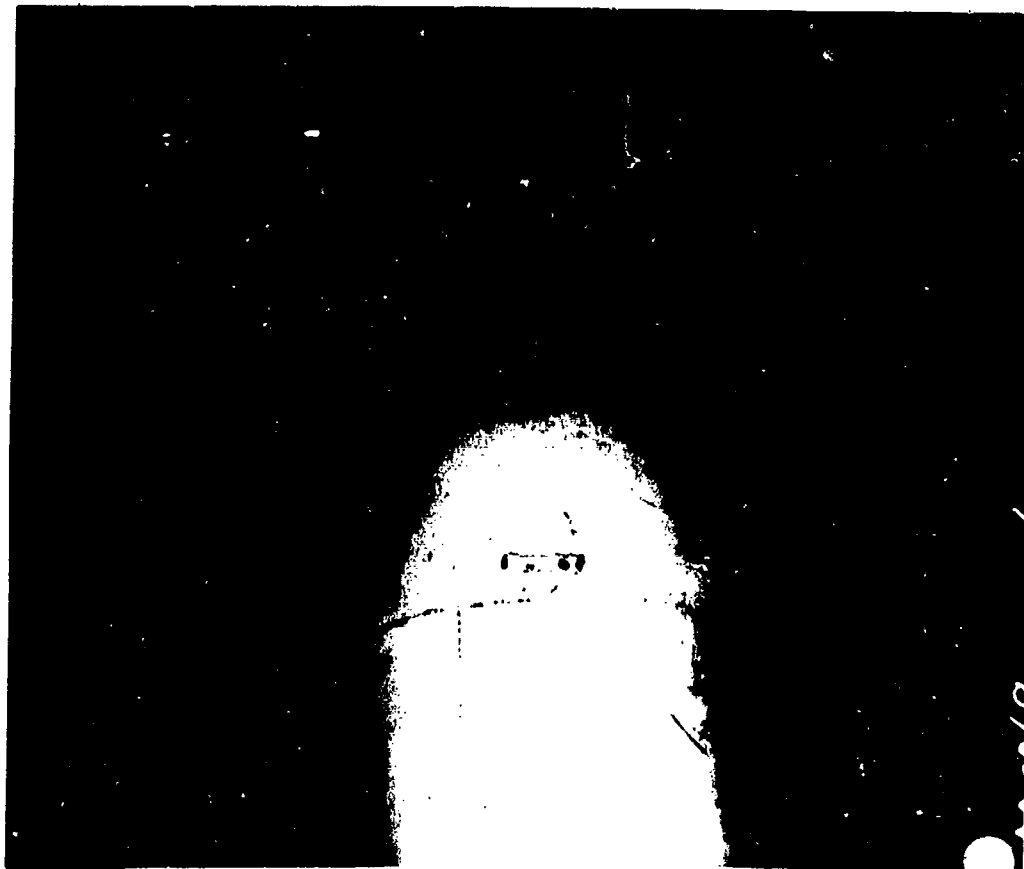
AA-CR-68-2096-4. Looking 'o port at deflection of second deck, frame 125 1/2, in way of bulkhead under deflected main deck.

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AA-CR-68-2096-6. Failure of connection and damage to second deck in way of ventilation duct to D-111 at frame 125, starboard.

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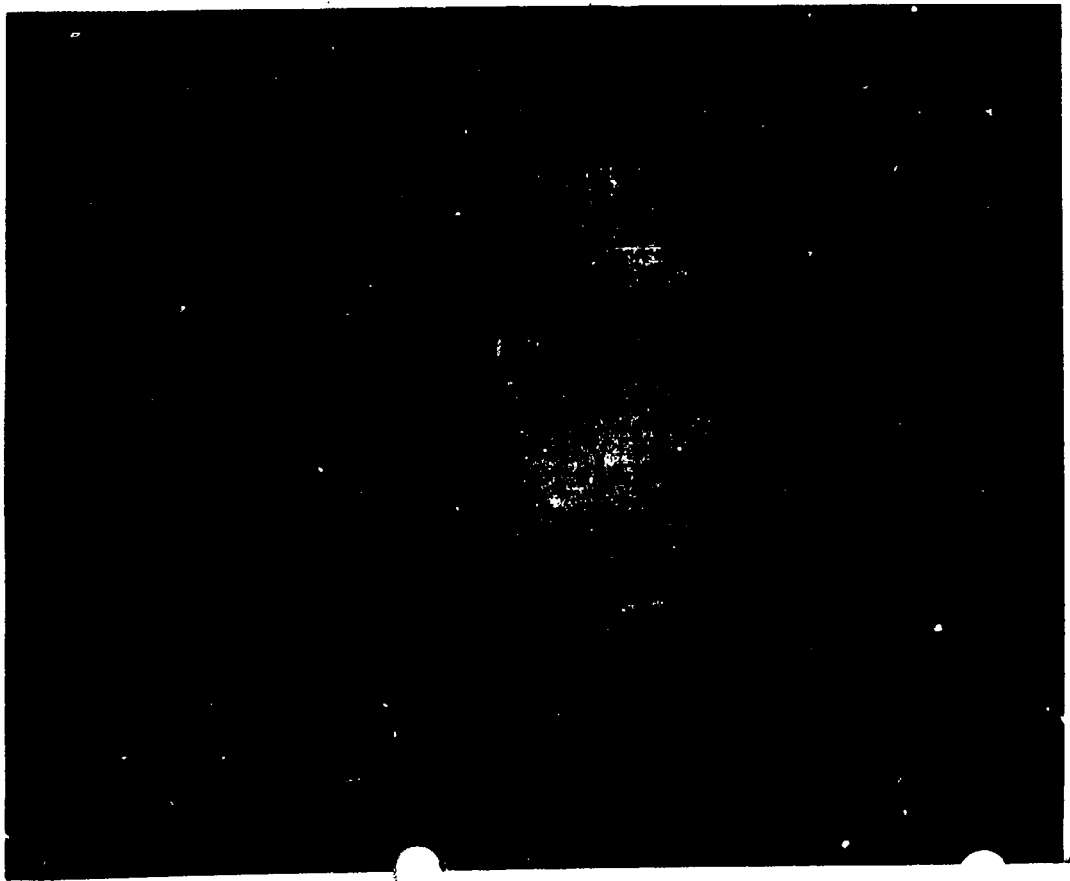


AA-CR-68-2096-9. Third deck, looking to starboard at bent stanchion under second deck, frame 125, centerline. Note water on deck.

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AA-CR-68-2096-7. Failure of ventilation duct to D-111 at frame 125, starboard, under main deck.

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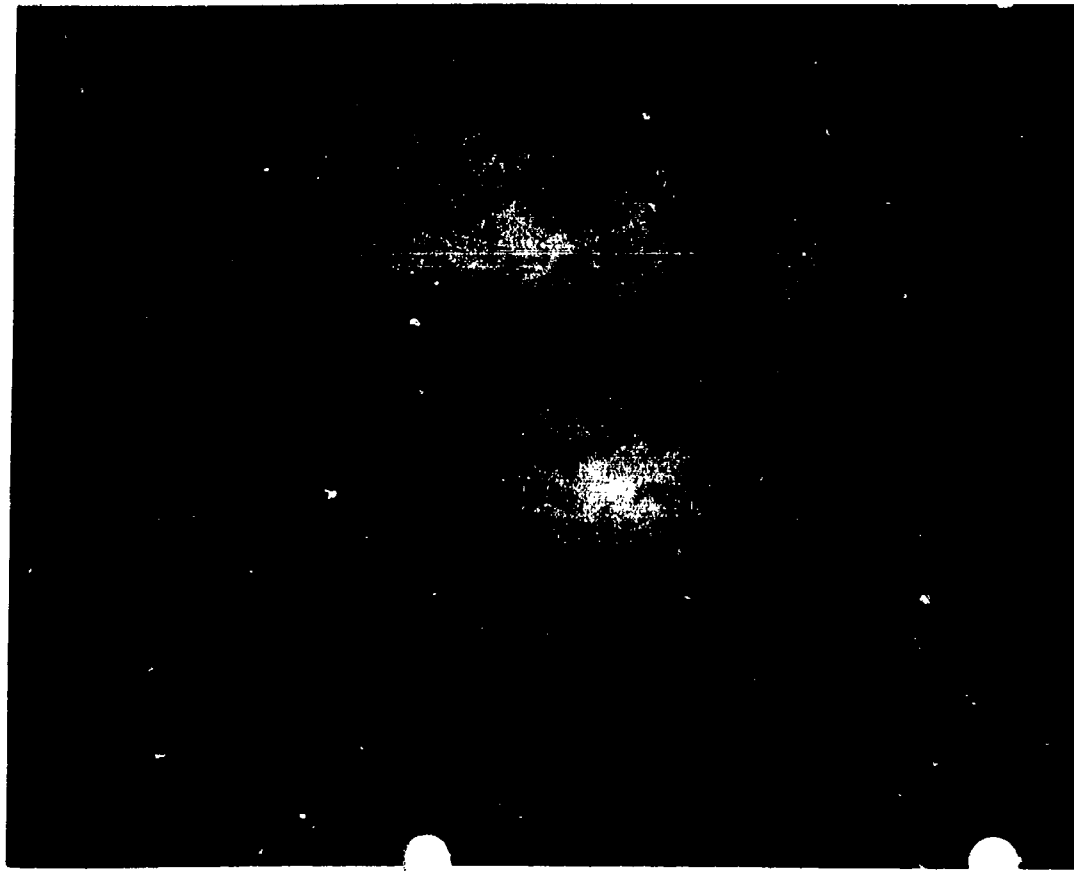


AA-CR-68-2097-10. Looking forward at scorched paint on vent intake, main deck, frame 80, starboard.

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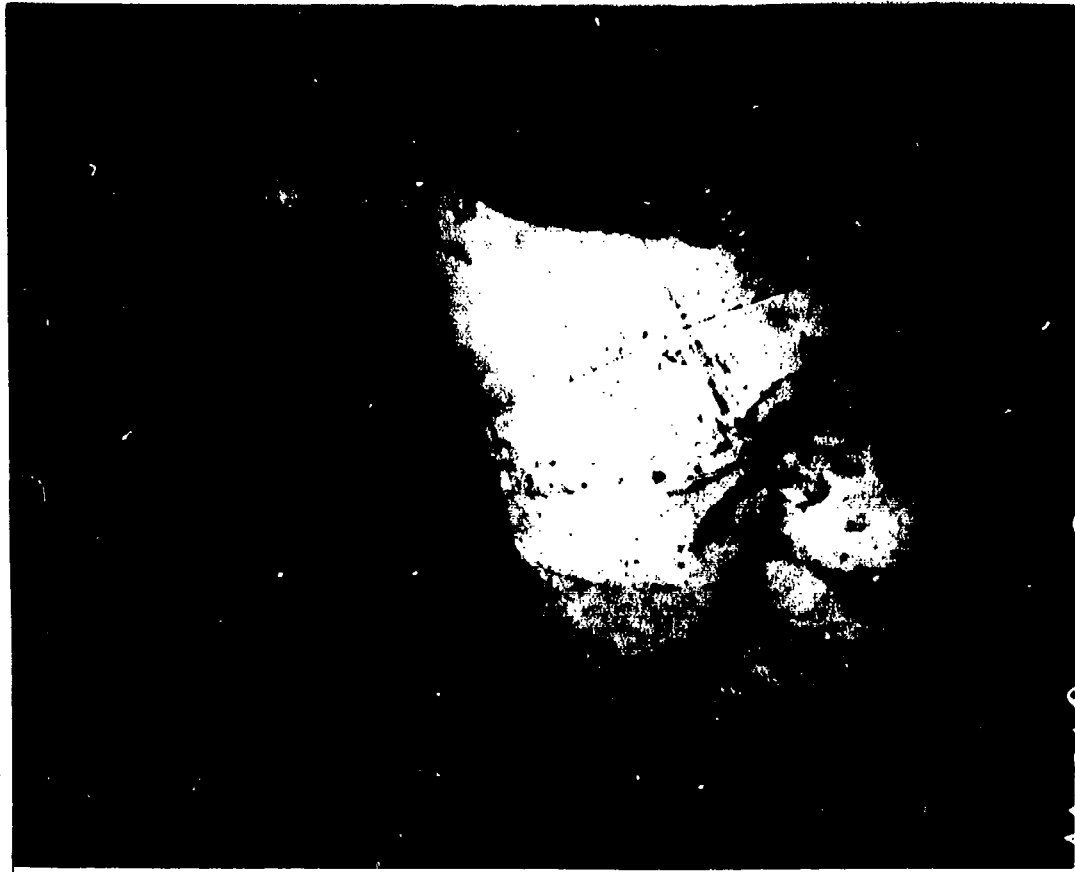
AA-CR-68-2097-9. Second deck, frames 82, starboard, damage to vent duct.

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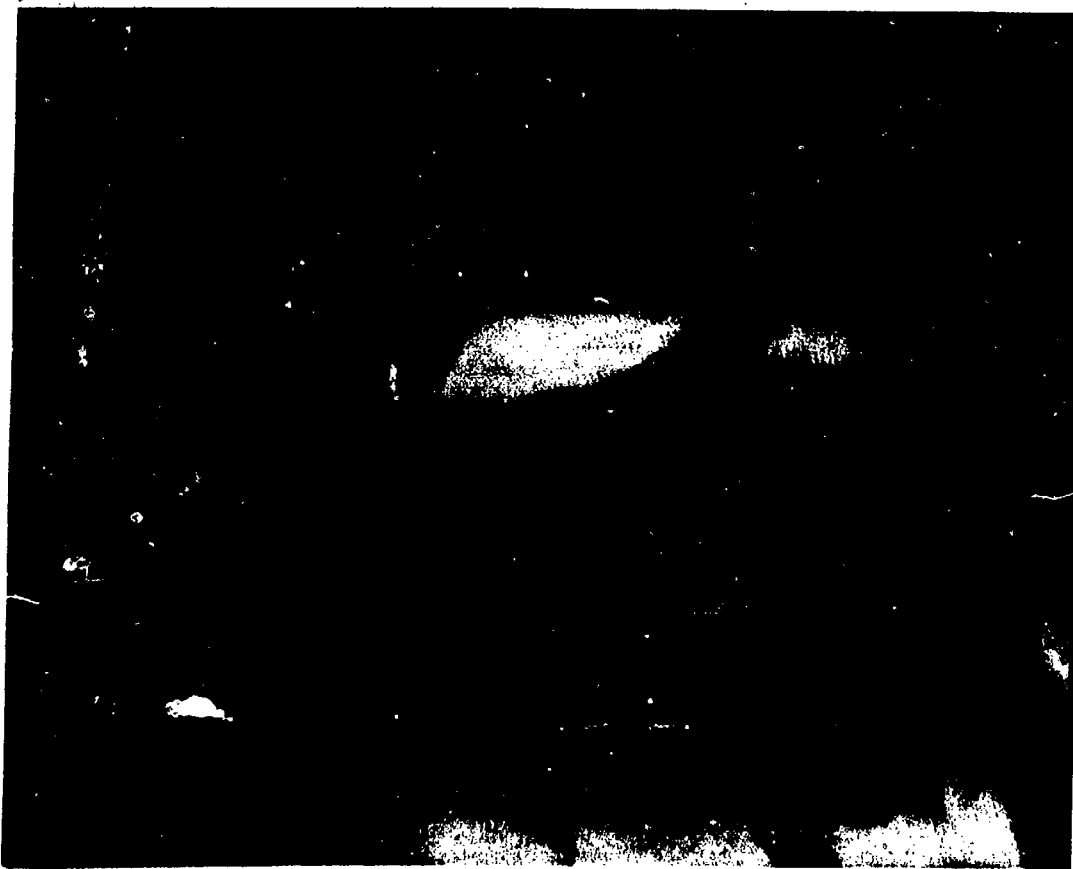
AA-CR-68-2097-8. Third deck, frame 82, starboard, damage to vent duct.

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AA-CR-68-2147-1. Failure of longitudinal bulkhead engine room, looking to starboard between frames 98-99. Note buckle in bulkhead at left of beam connection.

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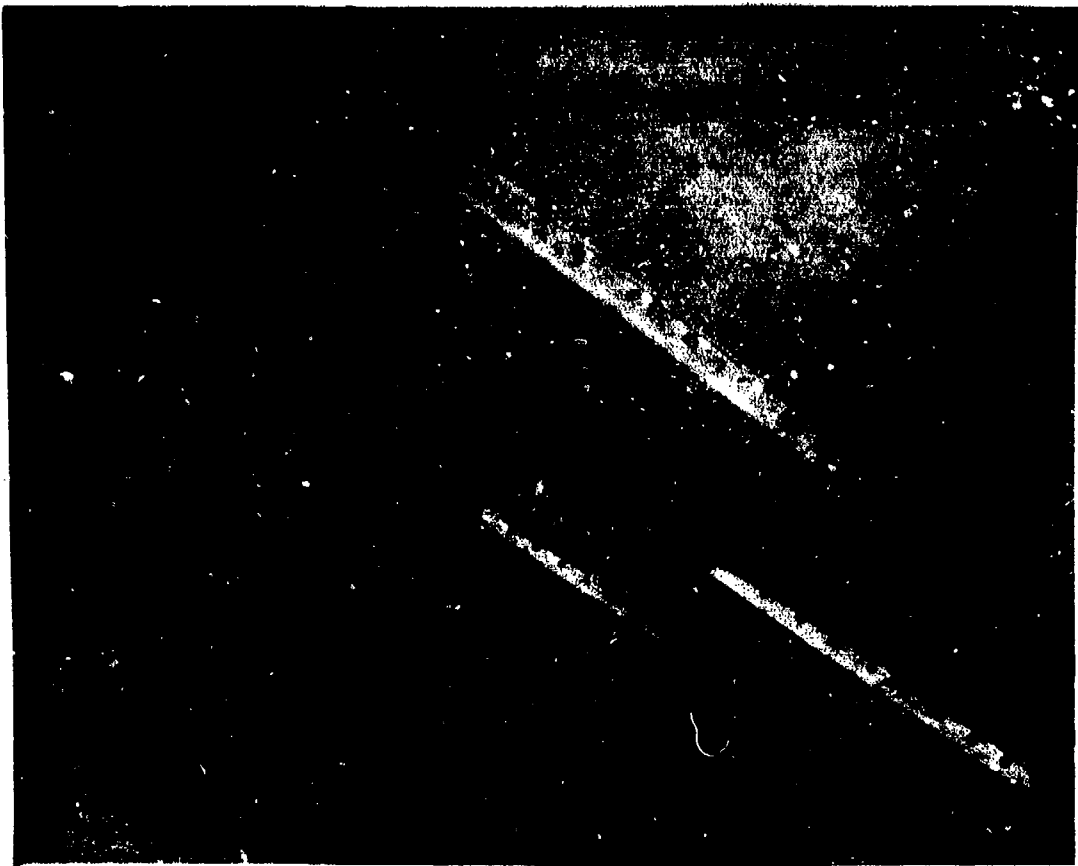


AA-CR-68-2146-12. Failure of longitudinal bulkhead engine room, looking to port between frames 99-100, note buckle in bulkhead at left of beam connection.

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AA-CR-62-1876-6. No. 3 boiler, starboard side casing, upper section.

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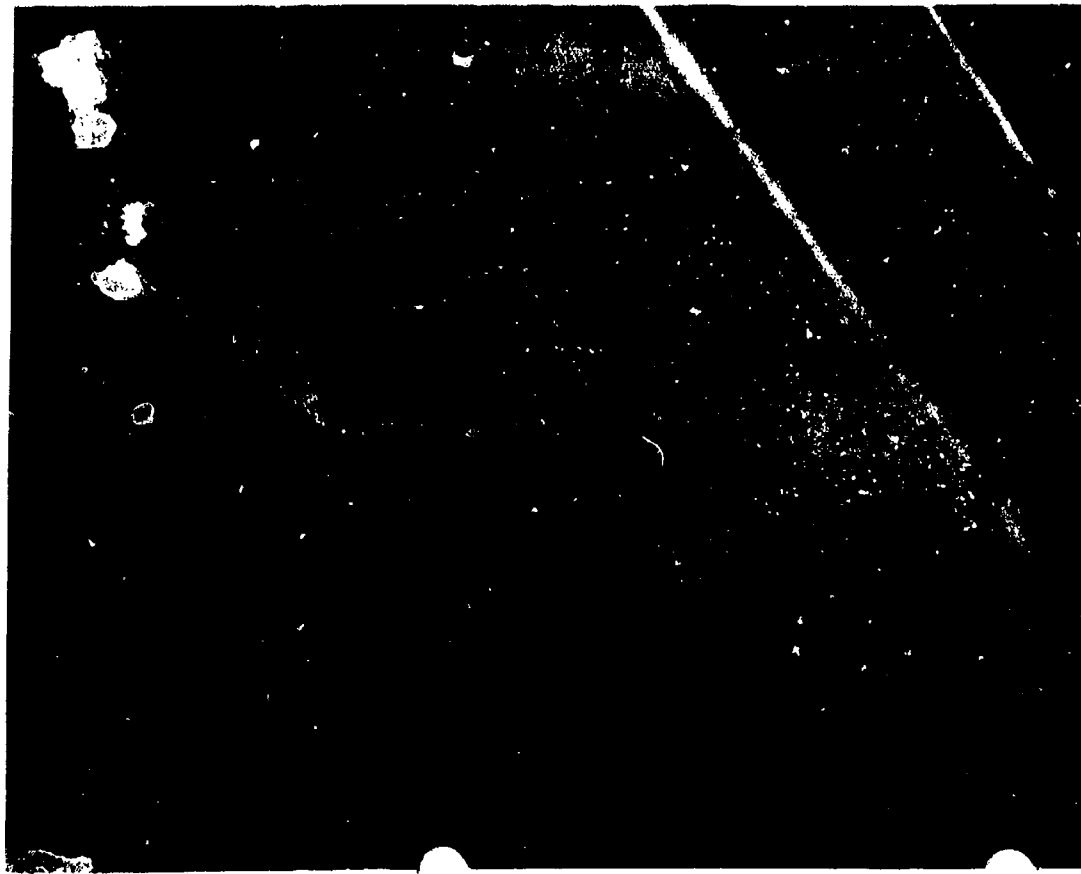
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AA-CR-62-1876-5. No. 3 boiler, starboard side casing, upper section.

SECRET

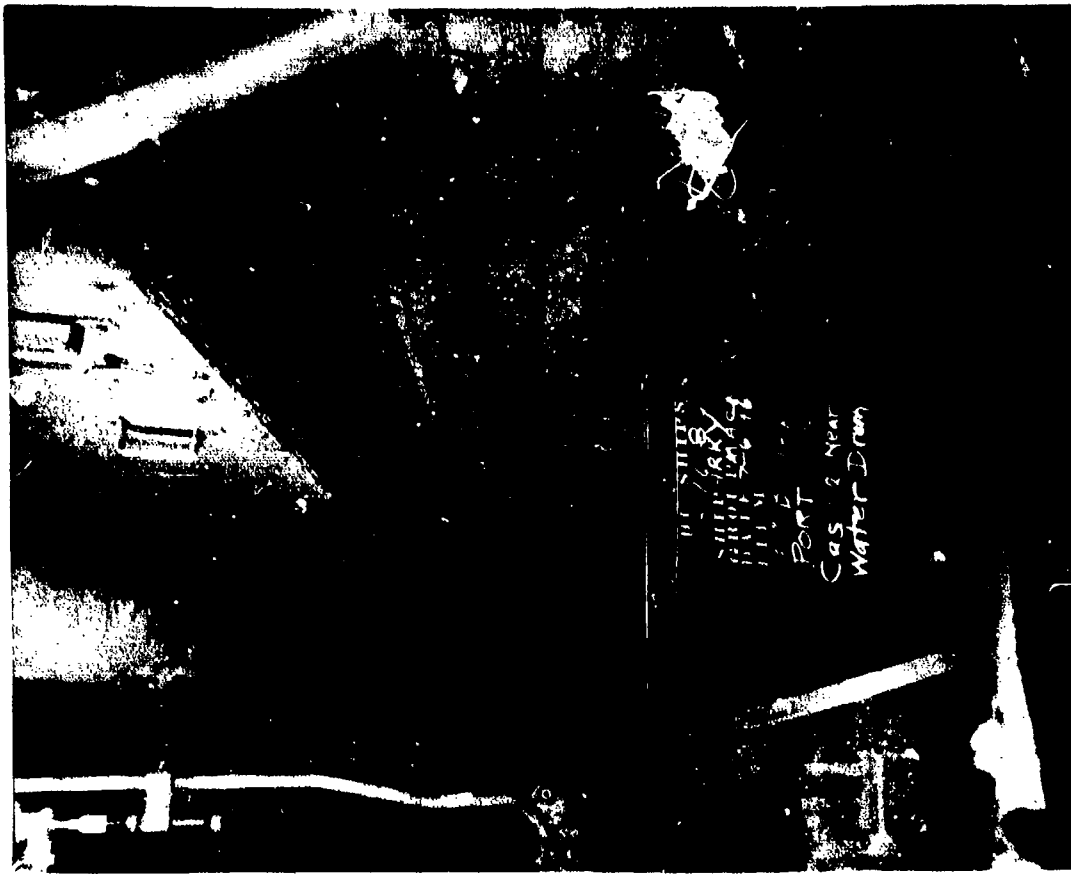
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AA-CR-62-1876-7. No. 3 boiler, port side casing, upper section.

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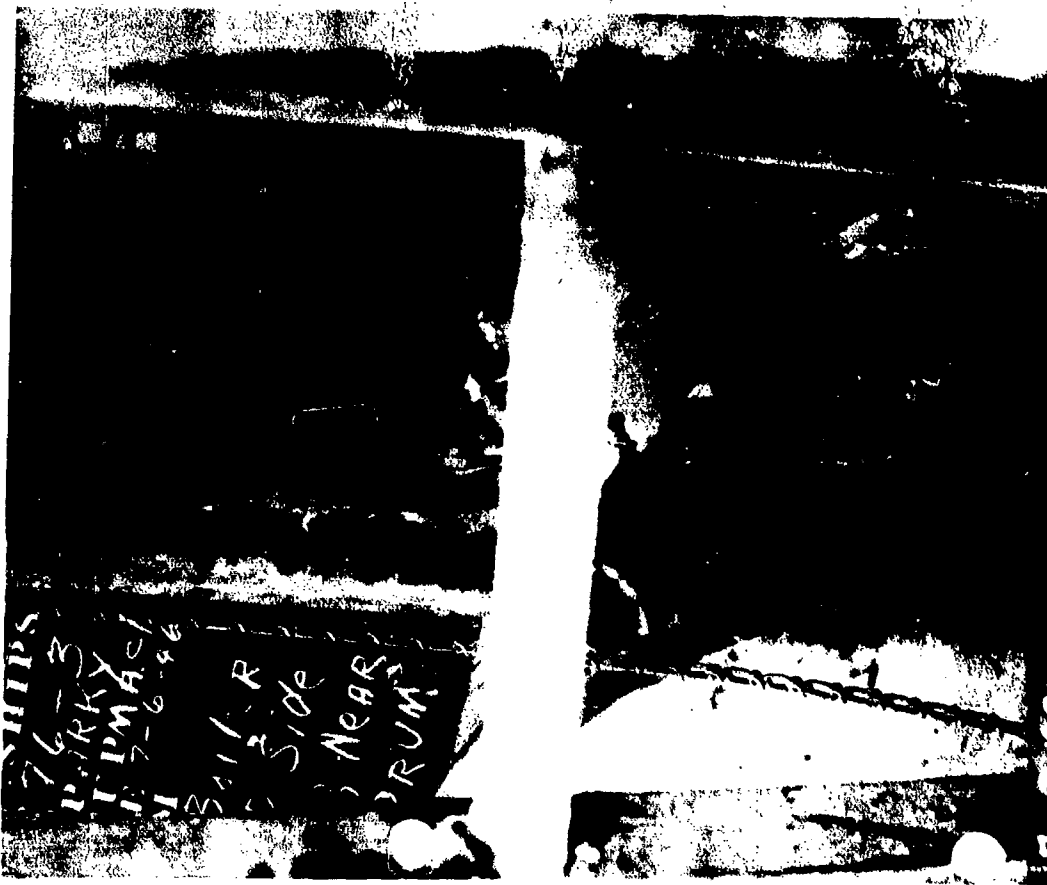
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AA-CR-62-1876-8. No. 3 boiler, port side casing, near water drum.

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AA-CR-62-1876-3. No. 3 boiler, starboard side casing, near mud drum.

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AA-CR-62-1876-4. No. 3 boiler, starboard side casing, near mud drum.

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AA-CR-62-1876-9. Lower stack, from starboard.

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AA-CR-62-1876-10. Upper stack, from starboard.

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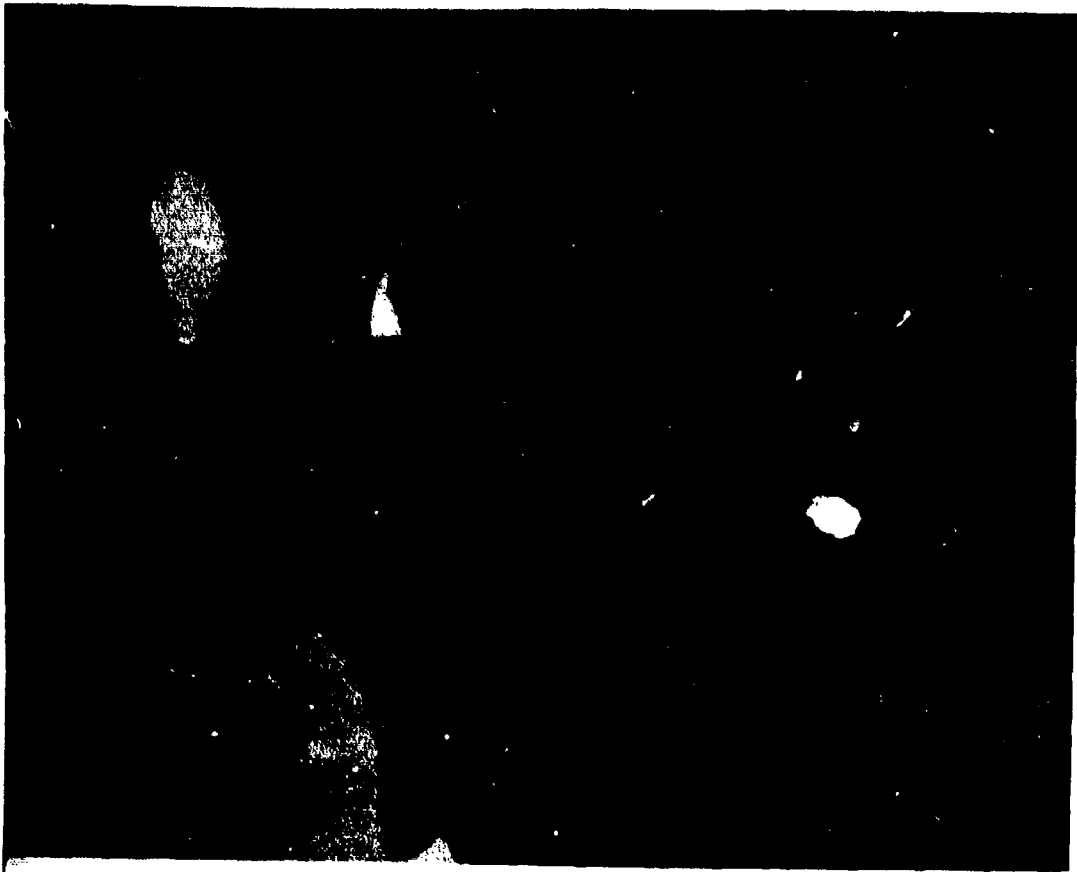


AA-1007

AA-CR-80-1897-1. Stack connection, upper deck.

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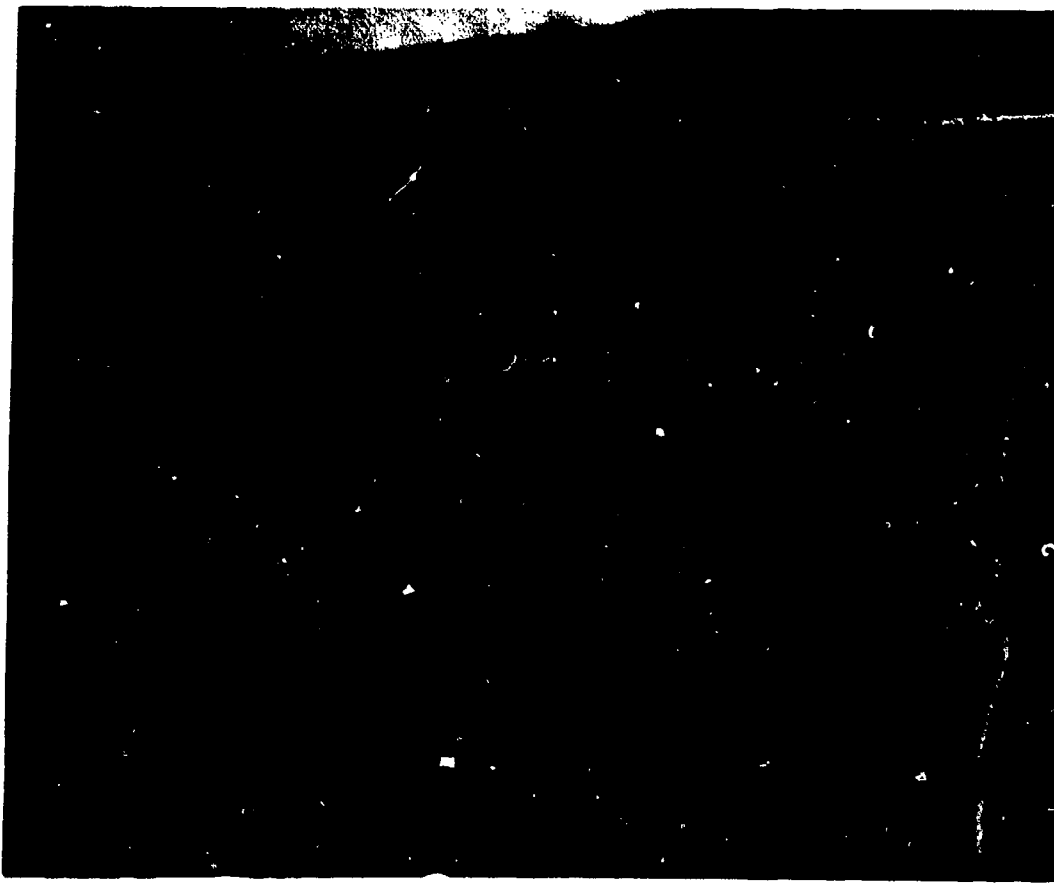
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AA-CR-80-189. Stack connection, upper deck.

SECRET

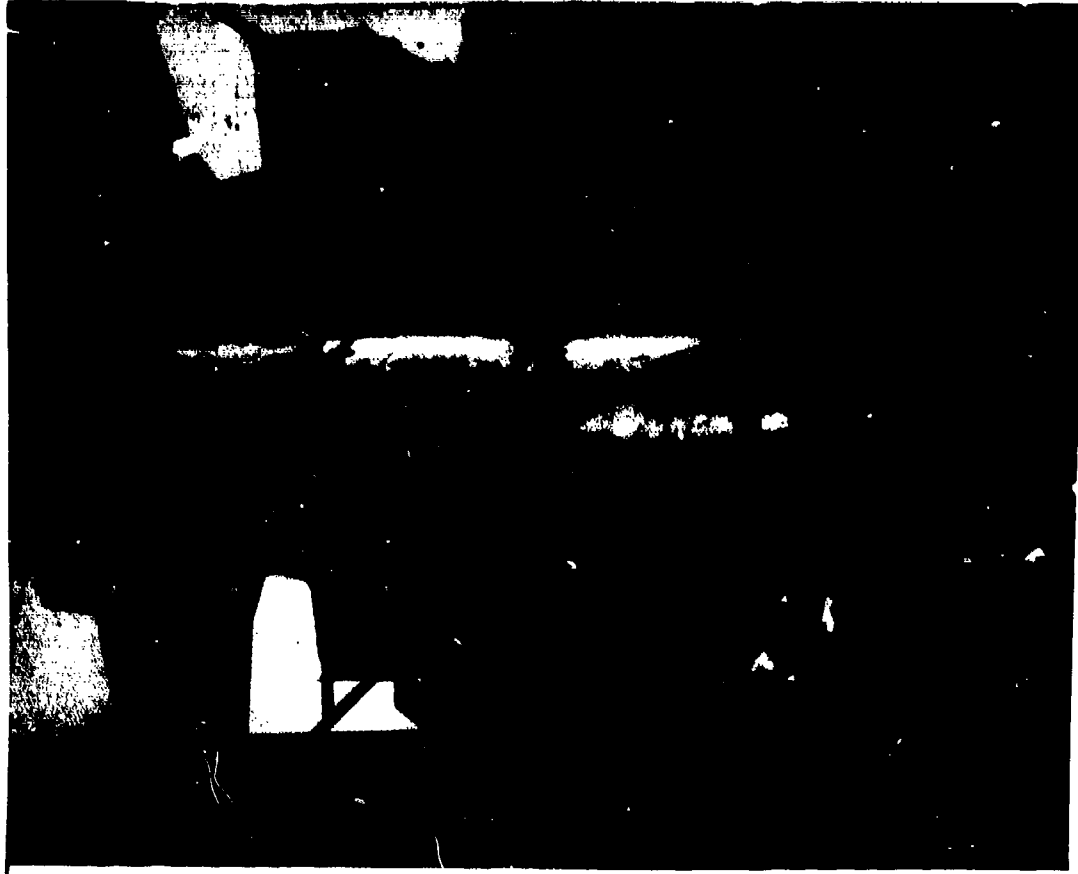
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AA-CR-80-1897-3. Stack connection, showing division plates.

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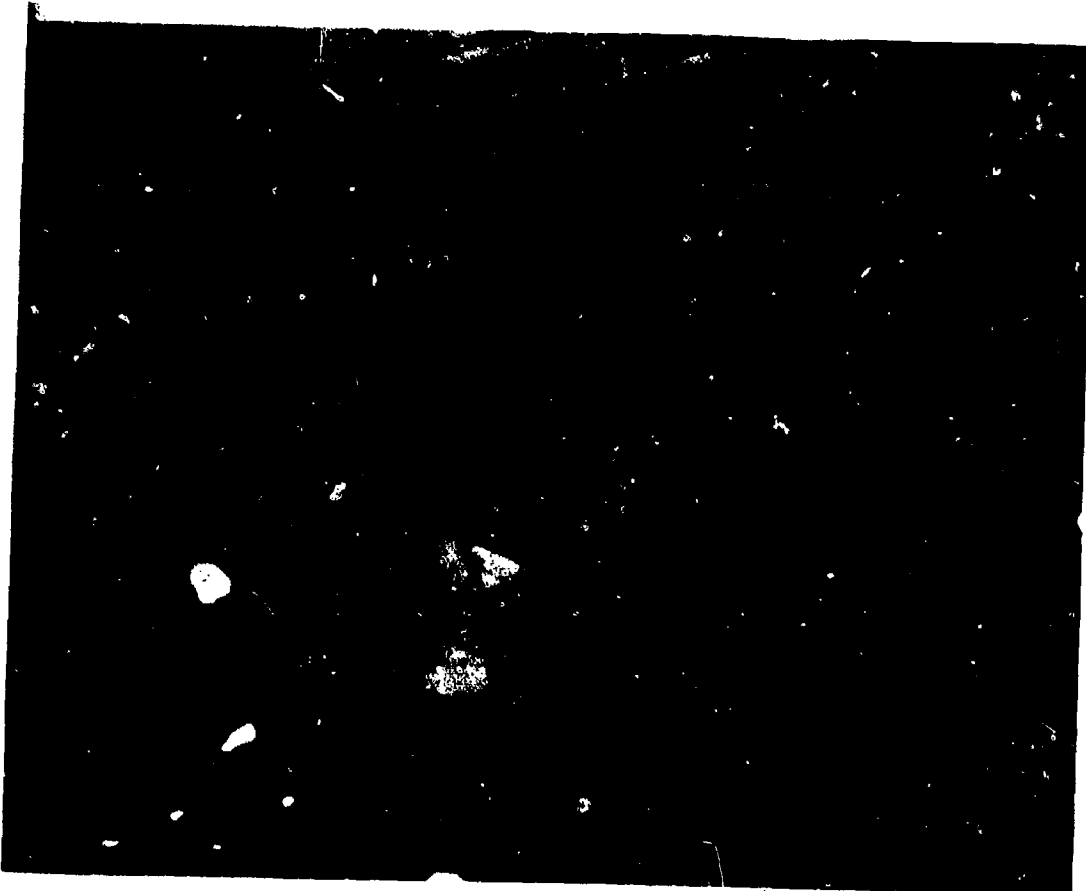
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AA-CR-62-1882-12. Temporary stack.

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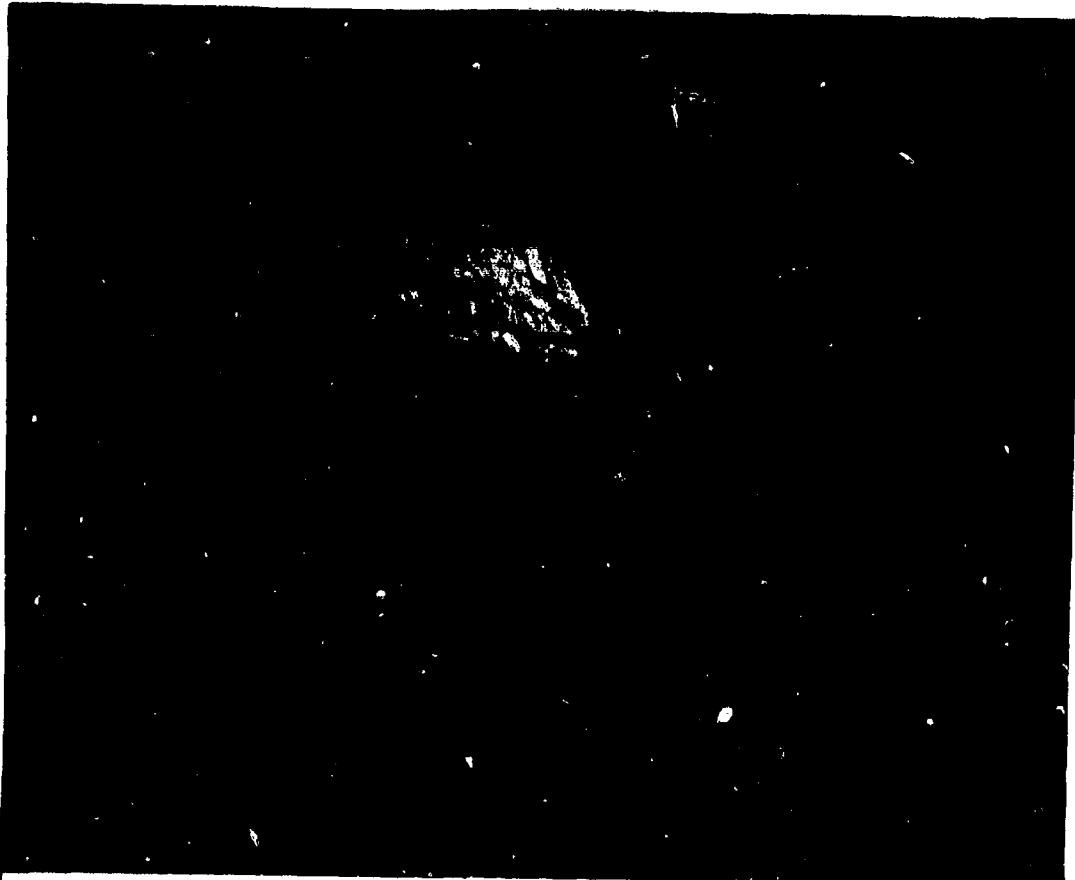
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AA-CR-68-2091-8. Temporary stack erected after Test A.

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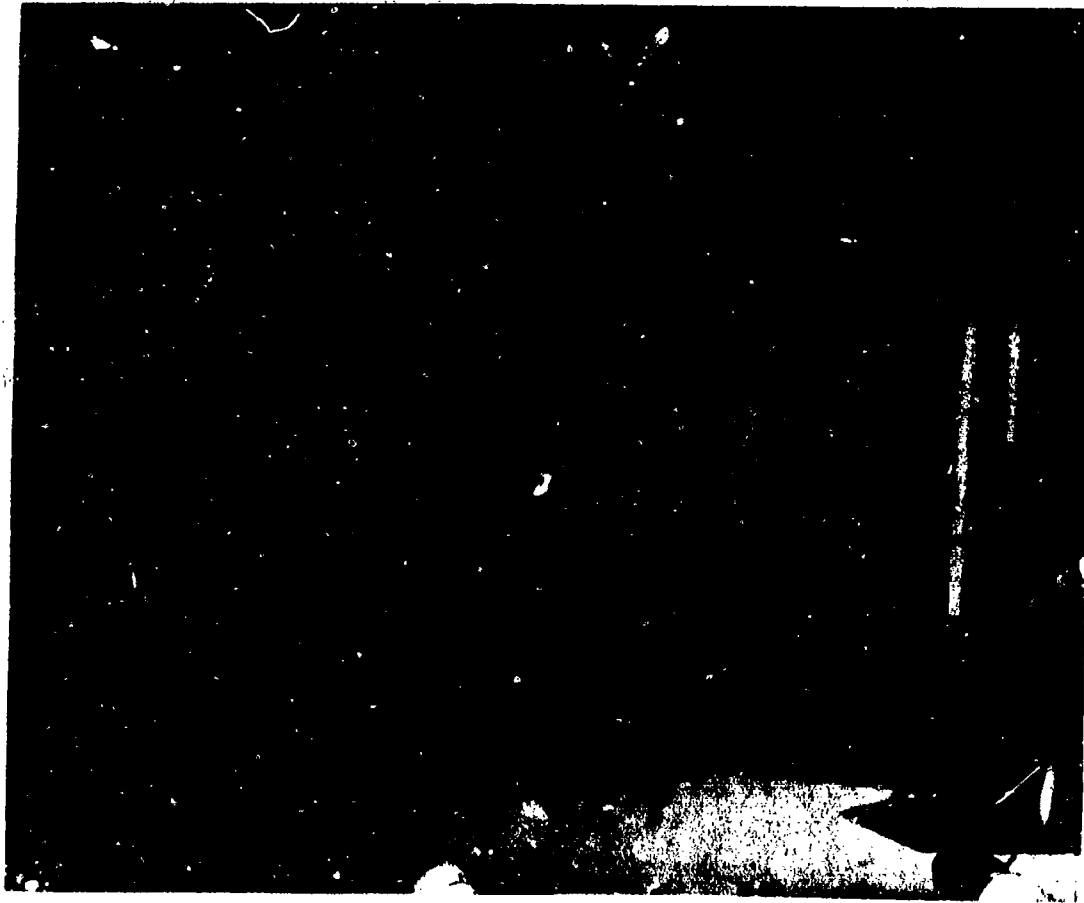
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AA-CR-68-2095-8. Temporary stack erected after Test A.

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AA-CR-62-2168-3. After warping winch.

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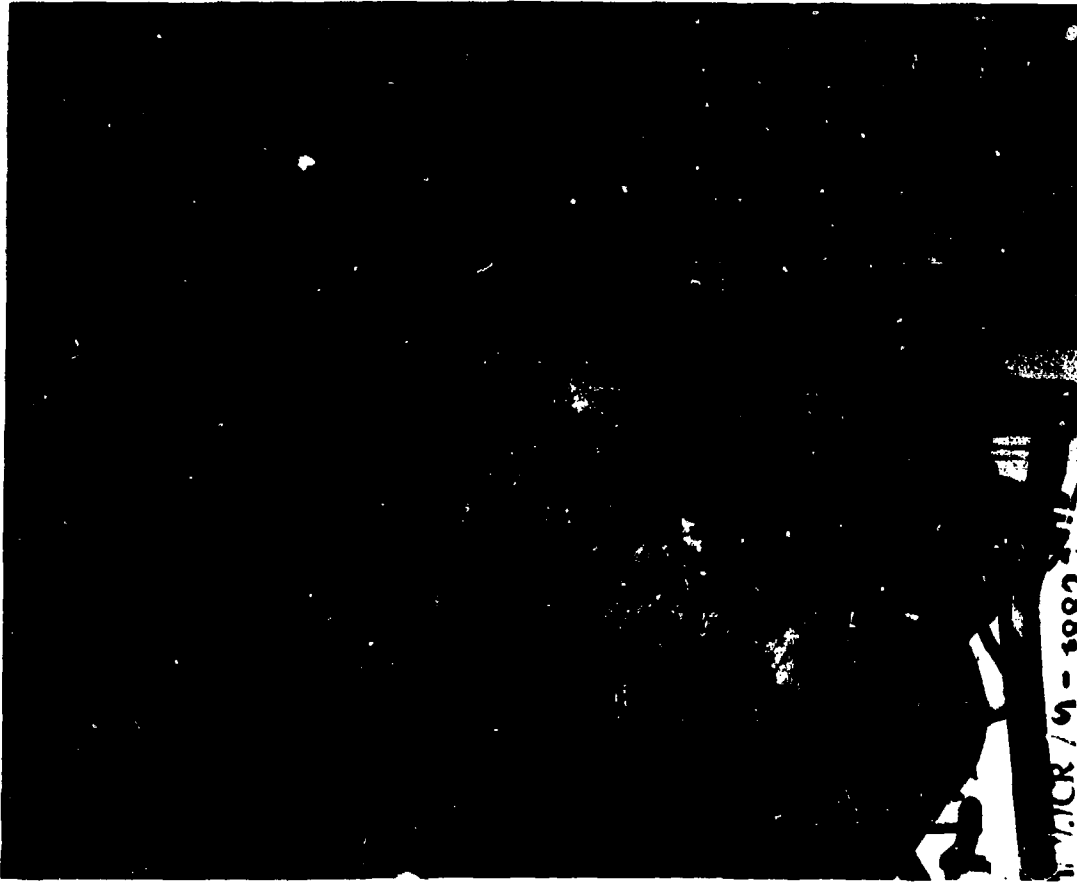
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AA-CR-62-1882-10. Starboard crane.

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AA-CR-62-1882-11. Starboard crane.

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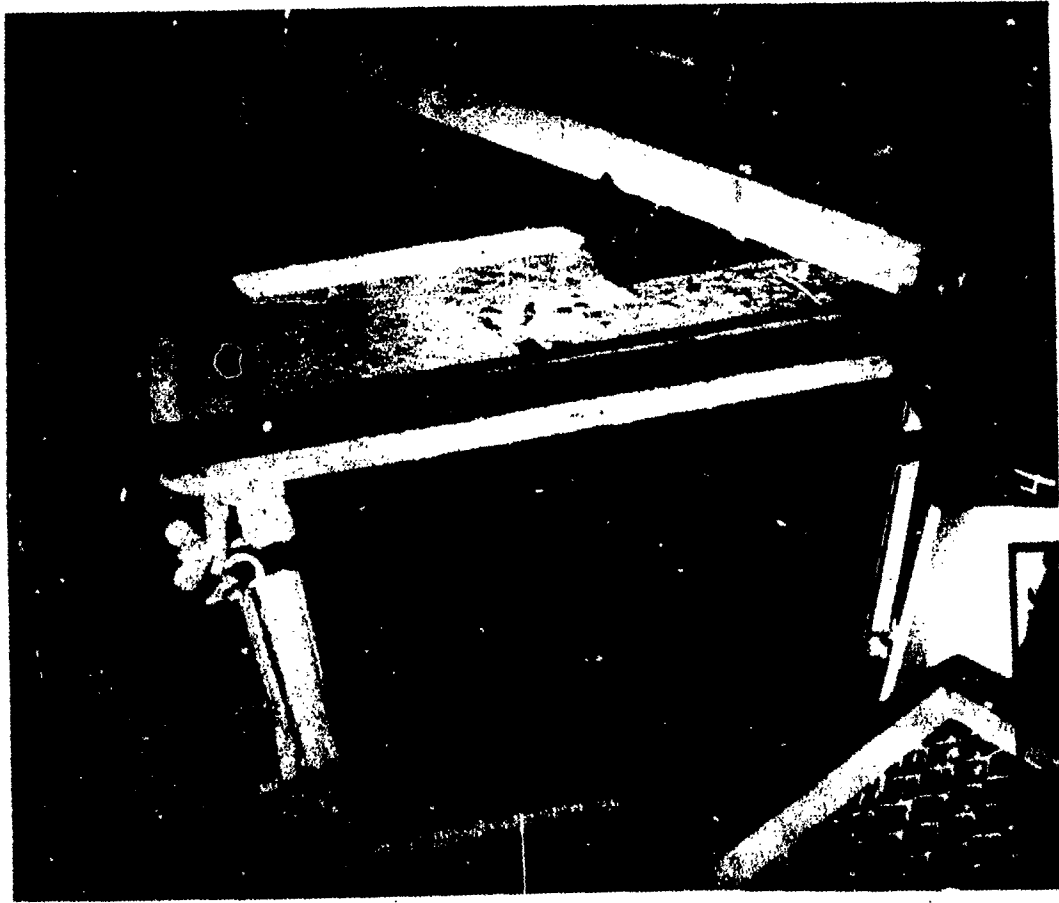
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AA-CR-68-2098-1. Starboard crane.

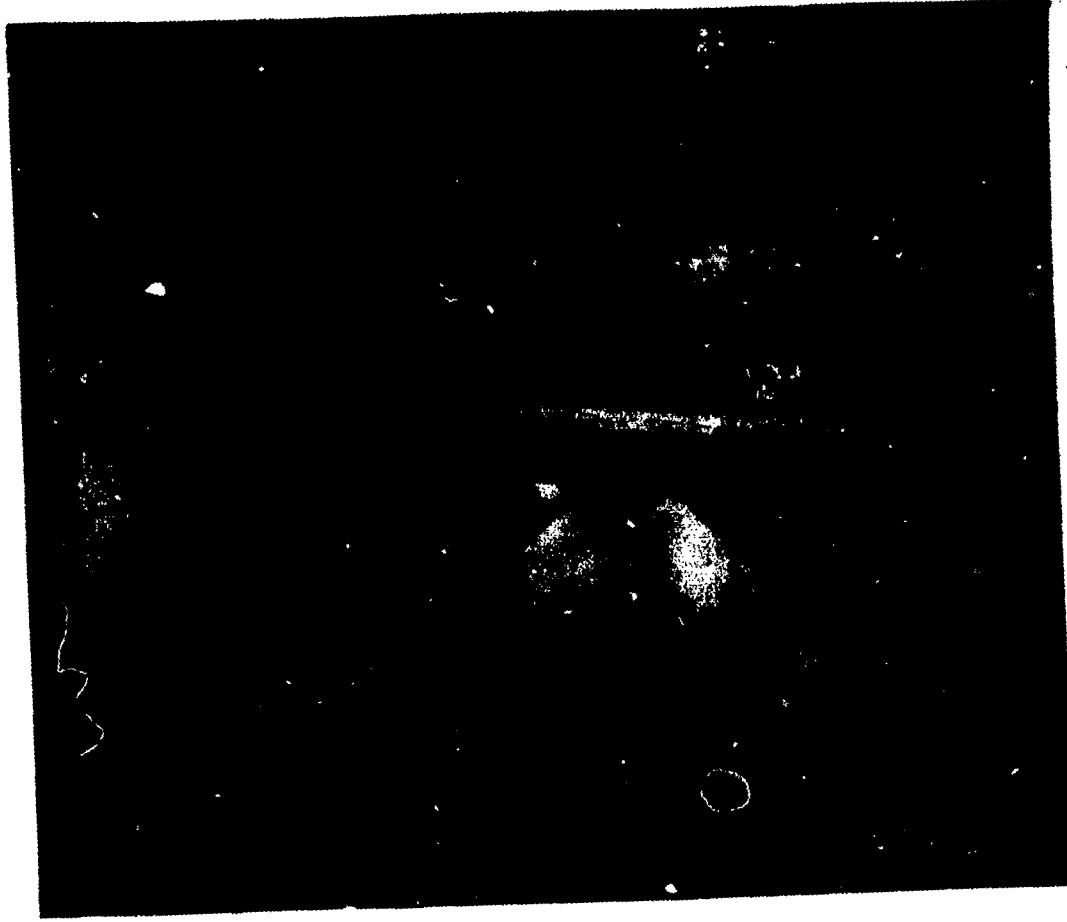
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AA-CR-175-2158-4. Deck Winch Controller-Deflection of the main deck over head bent the operating rod extending through the deck, distorted the controller supports and broke several contact fingers.

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AA-CR-175-2135-5. Photo shows cable with beads of insulation protruding through armor. Cable is on after side of foremast.

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ATOMIC WEAPONS INFORMATION

NOTICE

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AA-CR-80-1895-4. 36" searchlight blown from platform on mainmast.

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Security Information
ATOMIC ENERGY ACT 1946

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Classification (Controlled) (Controlled to for 1742/38 DOD 17 APRIL 1949)
By *[Signature]* Date *[Signature]* MAY 16 1952



TRC

Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

10 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTENTION: OMI/Mr. William Bush

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency (formerly Defense Nuclear Agency) Security Office has reviewed and declassified the following reports:

AD-366718✓	XRD-32-Volume 3	
AD-366726✓	XRD-12-Volume 2	
AD-366703✓	XRD-16-Volume 1	
AD-366702✓	XRD-14-Volume 2	
AD-376819L✓	XRD-17-Volume 2	
AD-366704-	XRD-18	
AD-367451✓	XRD-19-Volume 1	
AD-366700 5 -	XRD-20-Volume 2	AD-366705
AD-376028L-	XRD-4	
AD-366694✓	XRD-1	
AD-473912✓	XRD-193	
AD-473891-	XRD-171	
AD-473899✓	XRD-163	
AD-473887-	XRD-166	
AD-473888-	XRD-167	ST-A 28 JAN 80 made target
AD-473889 -	XRD-168	

TRC

10 April 1997

SUBJECT: Declassification of Reports

AD-B197749	XRD-174
AD-473905-	XRD-182
AD-366719-	XRD-33 Volume 4
AD-366700-	XRD-10
AD-366712-	XRD-25 Volume 1
AD-376827L-	XRD-75
AD-366756-	XRD-73
AD-366757-	XRD-74
AD-366755-	XRD-72
AD-366754-	XRD-71
AD-366710-	XRD-23 Volume 1
AD-366711-	XRD-24 Volume 2
AD-366753-	XRD-70
AD-366749-	XRD-66
AD-366701-	XRD-11
AD-366745-	XRD-62.

All of the cited reports are now **approved for public release; distribution statement "A" applies.**

Arndith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center

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L.W