## UNCLASSIFIED

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### CLASSIFICATION CHANGES

**TO:** unclassified  
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### AUTHORITY

DSWA ltr., 9 Apr 97; DSWA ltr., 9 Apr 97

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BUREAU OF SHIPS GROUP

TECHNICAL INSPECTION REPORT

U.S.S. SKATE (SS305)

TEST ABLE

VOLUME 2

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JOINT TASK FORCE ONE

1947 12 93p.
14 XRD-50

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NOV 2, 1965

REG. NO. 3

Downgraded at 12 year interval:
Not automatically declassified.
AA-CR-549-664-11. SKATE lying to in vicinity of flagship during inspection by Vice Admiral W.H.P. BLANDY.
General view of bridge looking forward room periscope shears. Note cracked CRS weld. Wings of bridge folded forward.
Failure of flange connection at foot of periscope shear looking forward.
Failure of SD radar mast shears just above flange.

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Frame 55 port looking forward. Fillet weld attacking flange of frame to hull plating, chipped away in way of crack. Note blanked off salvage connection to M.B.T. 2D.
AA-CR-59-2058-1. Stern, showing offset of stern and No. 8 shutter forced in against centerline girder.

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AA-CR-69-2068-2. Stern, showing offset and No. 7 shutter forced in and distorted.

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No. 7 main vent valve and after capstan head.
AA-CR-59-2057-3. After capstan head and No. 7 main vent valve looking forward and to starboard.
AA-CR-68-1749-11. Looking down on main induction valve, showing damage and displacement of entire valve to port.

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AA-CR-68-1750-5. Port main induction pipe to forward engine room. All supports are torn away and pipe is displaced up and to starboard.
Note fracture ventilation duct at top of picture.
Portable section of cross track bar in after end of after torpedo room showing starboard position.
View of No. 2 M.E. valve box showing deformation of welding construction and failure of brazed and welded joints.
Main induction valve stem casing. Failure of casing adjacent to welds, looking aft.
AA-CR-59-1833-1. View in forward torpedo room of QLA sound stack showing damaged upper shock mounts.
AA-CR-59-1568-7. View in conning tower of sound stack showing after bearing indicator jarred out of supporting bearings and door for TDM recorder jarred open.
AA-CR-59-1568-i. View in after engine room of gauge panel for No. 3 main engine showing glass lens in clocks shattered.

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USS SKATE (SS305)
AA-CR-1752-10. View of 50 gallon drum and beer can blast gauges in forward superstructure showing crushing effect of pressure
AA-CR-68-1748-12. View of JT sound gear hull flange showing how shaft and outboard support was carried away. Note lead-in cable.
General view of port side from boat.

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AA-CR-68-1753-5. General view of port side from boat.

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AA-CR-68-17b3-10. General view of starboard side from boat.

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General view of damage looking forward from top of periscope shears.

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AA-CR-68-1750-2. Picture taken from frame 50 starboard side looking forward showing flexible fueling hose and 10# blow piping to main ballast tanks 2A and 2C (undamaged). Note also sheared and displaced electric cables.

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AA-CR-68-1750-10. No. 2 Main engine outboard exhaust valve box.
AA-CR-59-1833-4. View of No. 4 Main engine outboard exhaust valve, muffler missing, with engine running.
AA-CR-68-2057-4. View of No. 4 M.E. exhaust valve box from forward port side showing deformation of welded construction and failure of brazed joint in piping.
AA-CR-68-1751-2. View of auxiliary engine muffler astride after engine room hatch as found immediately after test.
AA-CR-68-1751-3. View of auxiliary engine muffler forward end, outboard exhaust valve and part of No. 4 Main engine outboard exhaust valve.
AA-CR-2111-5. View of area around engine room hatch showing damage to port main exhaust valves and to auxiliary engine muffler and exhaust piping.
AA-CR-68-1751-4. View from aft of auxiliary engine muffler astride engine room hatch as found after test.
AA-CR-68-2111-4. View of damage to after capstan and #7 Main ballast tank main vent valve.

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AA-CR-68-1751-10. View of after capstan and No. 7 Main ballast tank main vent valve.
AA-CR-68-1752-8. Closeup of dislocation of No. 6 torpedo tube impulse air flash showing rupture in pipe at flange.
AA-CR-59-2055-10. View alongside conning tower port side showing damage to 10# blow piping to main ballast tanks 2B and 2D.
Radio entering trunk hull flange and 10lb. blow pipe to main ballast tank 2D.
AA-CR-2111-2. View of topside starboard side looking forward from after torpedo room hatch showing damage to 10# blow piping to #7 Main ballast tanks and maneuvering room low salvage connection.
AA-CR-68-1751-5. View of maneuvering room salvage air fitting (low),

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AA-CR-59-2011-10. Control room submerged signal reactor showing operating shaft pushed in and bent operating limit switch control meshed.
AA-CR-68-1748-10. Submerged signal ejector (control room) external view showing how outer board and outer door were carried away.

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ABCR-MIK-6502-1. View of stern showing distortion of stern structure and shutters.
ABCR-MIK-6502-2. Starboard side of stern showing offset of top structure and distortion of shutters.
ABCR-MIK-6502-3. Starboard side looking aft showing offset of structure above the lower shutter.
ABCR-MIK-6502-5. View of stern from port quarter showing distorted structure and crumpled #8 torpedo tube shutter.
ABCR -MIK-6503-2. Starboard quarter hull plating between #7 and #9 shutters at forward end. Note compression failure of plate. Flat bar bracket on outside is part of experimental structure installed for purposes other than Crossroads.
ABCR - MIK-6503-9. Distortion of top of stern structure to starboard above forward end of #7 torpedo tube structure.
ABCR-MIK-6504-3. View in way of number 8 torpedo tube from port side aft showing distortion in fore and aft bulkhead.
AB-CR-MIK-8504-4. #3 torpedo tube port side looking aft showing distortion in frames.

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AB-CR-MIK-6503-3. View showing distortion of No. 2 torpedo tube shutter.
AB-CR-MIK-6503-4. View showing distortion of No. 2 torpedo tube shutter from above.
AB-CR-MIK-6503-8. View showing lower roller of track #7 torpedo tube shutter.
AB-CR-MIK-6503-7. View showing lower rollers on #8 torpedo tube shutter.
AB-CR-MIK-6503-5. View showing distortion of #8 torpedo tube shutter.

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AB-CR-MIK-6503-6. View showing distortion of #8 torpedo tube shutter as seen from below and outboard.
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15 - Apr 49

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By Authority of Joint Chiefs of Staff (Action 15 Apr 49)

By [Signature]

Date [1 May 51]

[AF5W P]
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-366748 - XRD-65
AD-366747 - XRD-64
AD-366746 - XRD-63
AD-376826 - XRD-60
AD-376824 - XRD-58
AD-376825 - XRD-59
AD-376823 - XRD-57
AD-376822 - XRD-56
AD-376821 - XRD-55
AD-366743 - XRD-54
AD-376820 - XRD-53
AD-366742 - XRD-52
AD-366741 - XRD-51
AD-366740 - XRD-50-Volume-2
AD-366739 - XRD-49-Volume-1
AD-366738 - XRD-48
AD-366737 - XRD-47
TRC 9 April 1997

SUBJECT: Declassification of Reports

AD-366736 - XRD-46
AD-366735 - XRD-45
AD-366723 - XRD-37
AD-366721 - XRD-35
AD-366717 - XRD-31-Volume-2
AD-366716 - XRD-30-Volume-1
AD-366751 - XRD-68-Volume-2
AD-366750 - XRD-67-Volume-1
AD-366752 - XRD-69
AD-366744 - XRD-61.

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

ARDITH JARRETT
Chief, Technical Resource Center

[Signature]

Completed
1 Mar 2000