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Title: RADIOLOGICAL CLEARANCE AND DECON PROCEDURES FOR CROSSROADS WORK
TARGET VESSELS (12/17/46)

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NAVY DEPARTMENT
BUREAU OF SHIPS

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and
BUREAU OF MEDICINE & SURGERY
WASHINGTON 25, D.C.

17 December 1946

To: DISTRIBUTION LIST.

Subj: Radiological Clearance and Decontamination Procedures for CROSSROADS
Non-target Vessels.

Ref: (a) BuShips-BuMed Conf. ltr of same subject All/Crossroads/
C-S(99)-(0) dated 22 Nov 1946.

1. Reference (a) outlined the procedure for granting radiological clearance to Bikini non-target vessels and contained, as enclosures, general radiological safety precautions and radiological decontamination procedures.

2. Subsequent investigation has revealed that certain requirements with respect to tolerances, disposal of sandblasting sand and discharge of used decontamination solutions can be relaxed. **BEST AVAILABLE COPY**

3. The following changes have therefore been effected in the requirements and procedures specified by reference (a). It is requested that changes be made immediately by all holders of the reference.

(a) Page 4, subparagraph 7(3), change Exception (a) to read as follows:
"Underwater body, at least twenty readings as equally spaced as practicable, ten on each side, statistically averaged do not exceed 0.02r beta gamma combined with no single localized area in excess of 0.1r beta gamma combined. For clearance purposes, the underwater body will be considered to include all salt water injections and overboards to the first sea valve. The same criteria as specified for clearance of underwater bodies will apply to anchors, anchor chain, chain lockers, and underwater bodies of small boats."

(b) Page 4, subparagraph 7(3), change Exception (b) to read as follows:
"Salt water systems when ninety-four (94) per cent of the total areas exposed to sea water in the systems have external readings not above 0.001r gamma, five (5) percent not above 0.005r gamma, and one (1) percent not above 0.01r gamma."

CLASSIFICATION CANCELLED *
BY AUTHORITY OF DOE/OC

Carl Wilson 3/6/88

REVIEWED BY DATE

* Ltr. DNA Varallo TO
DOE, OC dated 6/16/87

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(c) Enclosure (A), subparagraph 2(c)(7), change to read as follows:

"(7) All solutions used in decontamination have the ordinary industrial hazards. Used solutions may be dumped at sea, preferably through contaminated outlets or overboard discharges, or in harbors for ships in port or in drydock. When used solutions are discharged into harbors, the process should be carried out at a slow rate and a flow of water provided to dilute the decontaminating solution about four to one. The solution should also be discharged well clear of docks and shoreline, and at the commencement of an ebb tide if possible."

(d) Enclosure (A), subparagraph 2(c)(8), change to read as follows:

"When decontamination of the underwater body of the ship is required, all rust and marine growth removed in dock shall be handled in accordance with instructions in subparagraph (4) above. If wet sand blasting is required for decontamination or is accomplished, no special handling or disposal of sand for radiological purposes is required. In cases where a ship requires underwater body decontamination in drydock and sandblasting is accomplished without preliminary scraping of the fouling and marine growth, the mixture of sand and marine growth removed must be gathered up and disposed of in accordance with instructions in subparagraph (4) above."

(e) Enclosure (B), page 2, subparagraph 2A(7), delete last sentence reading "The acid removed should be handled as a contaminated material".

(f) Enclosure (B), page 4, subparagraph 2B(1), change second sentence to read as follows: "Arrange the suction of the pump, if practicable, to take suction on the mixing tank for the acid treatment and subsequent neutralization, and on salt water for the dumping and flushing".

(g) Enclosure (B), page 4, subparagraph 2B(6), delete entire ^{sub} paragraph and substitute the following: **SAN BRUNO FBC**

"Upon completion of decontamination circulation, discharge the solution overboard using drains found to be contaminated. If the discharge is made into a harbor, it shall be accomplished as specified in Enclosure (A), subparagraph 2(7). For clearance purposes, all salt water lines and parts of systems outboard of sea valves are considered as parts of the hull and shall be treated with the underwater body as required at first drydocking."

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(h) Enclosure (B), page 6, subparagraph 2C(5) delete second and third sentences and substitute the following: "On completion of acid treatment, discharge solution overboard through regular overboard lines, following precautions set forth in enclosure (A), subparagraph 2(7), if in a harbor."

(i) Enclosure (B), page 8, subparagraph 2E(3), delete fourth sentence starting "The sand shall then be collected...." and substitute the following: "If the underwater body requires decontamination and sand-blasting is undertaken without scraping as outlined in subparagraph (1) above, the sand shall be collected and disposed of as required for contaminated materials removed as specified by Radiological Safety Precautions (Encl. (A))."

T. A. Solberg

T. A. SOLBERG
By direction
Chief of Bureau of Ships

C. A. Swanson

C. A. SWANSON
~~By direction~~
Chief of Bureau of
Medicine & Surgery

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DUTIES OF SHIPS CLEARANCE BOARD

1. It shall examine all initial complete monitoring reports to insure that they are properly dated and signed, and that the ship has been adequately monitored.

2. If there are any omissions in the monitoring, The Board shall request the Senior Monitor to have the monitoring completed.

3. The Board shall submit the complete report for typing and forwarding to BuMed and BuShips. (Does not apply in reports from other Districts).

4. It shall prepare an abstract from the monitor's report of the parts of the ship which are above the accepted contamination limit. *This shall be given in Letter form to the C.O. advising what parts of ship require decontamination*

5. All subsequent partial monitoring reports on ships being decontaminated shall be examined and this information recorded on the abstract so that the Board can furnish at any time information on what parts of a ship still require decontamination.

6. As soon as decontamination of a ship is complete, The Board shall prepare a final complete report of the condition of the ship, signed by the appropriate monitors and forward it to BuMed and BuShips. **SAN BRUNO FRG**

7. To accompany the final report the Board shall prepare a letter to BuShips and BuMed via Commander Hoffman, recommending that the ship be given final clearance.

8. Initial and final reports from other naval districts will be submitted directly to BuMed and BuShips. The Board should examine the copies of these reports and should submit a letter as under paragraph 7 when copies of a final report are received.

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