

LAS VEGAS

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Title: RADIOLOGICAL MONITORING ORGANIZATION (11/18/76)

LAS VEGAS Serial No: 109059

Pages: 6

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P2-4  
 (WSF-07-bn)  
 Serial: 0564

Staff Headquarters  
 WESTERN SEA FRONTIER  
 Federal Office Building  
 San Francisco 2, California  
 18 November 1946

**From:** Commander Western Sea Frontier.  
**To :** Commandant Eleventh Naval District.  
 Commandant Twelfth Naval District.  
 Commandant Thirteenth Naval District.  
 Commandant Fourteenth Naval District.  
**Subj:** Radiological Monitoring Organization.  
**Ref :** (a) CJTF-1 Conf. ltr. JTF-1/J-3, L9-7, Serial  
 079 of 9 September 1946.  
 (b) CNO Conf. ltr. Op-602/cn serial 021P602(Sc)  
 S67-1 of 27 August 1946.  
 (c) Joint BuShips-BuMed Conf. Spdltr. Serial  
 1381 of 24 September 1946.

1. Reference (a) established the initial organization for radiological monitoring and clearance of Bikini vessels. With the dissolution of Joint Task Force ONE, a modified organization for continuing the monitoring and clearance of contaminated vessels has been established and supercedes that constituted by reference (a). The nature and functions of the new organization are set forth below for information and guidance.

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2. A radiological safety organization is established at Naval Shipyard San Francisco under Commander Western Sea Frontier to coordinate monitoring and clearance of all crossroads vessels on the West Coast and Pearl Harbor areas. This organization performs the following functions:

(a) Distributes monitors and radiological detection instruments as required and available to Commandants of the Eleventh, Twelfth, Thirteenth and Fourteenth Naval Districts.

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(b) Furnishes technical instructions and field guidance to radiological monitors in accordance with instructions received from the Bureau of Ships.

(c) Maintains complete records as to the radiological status of all suspect vessels and keeps files of all monitor reports.

CLASSIFICATION CANCELLED \*  
 BY AUTHORITY OF DOE/OC

*Calusa* 6/15/88  
 REVIEWED BY DATE

-1-

ENCLOSURE (A) to RadSafe C/L #1. DOE, OC dated 6/16/87

22

P2-4  
(NSF-07-bn)  
Serial: 0564

~~CONFIDENTIAL~~

-2-

18 November 1946

Subj: Radiological Monitoring Organization.

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(d) Maintains a Ship Clearance Board consisting of qualified personnel to review monitor reports, advise commanding officers as to decontamination measures required for operational and final clearance, and submit recommendations to Commander Western Sea Frontier for granting operational clearance and to Bureau of Ships and Bureau of Medicine and Surgery for granting final clearance.

3. Requests for monitoring by Crossroads vessels will be submitted to District Commandants in which vessels arrive or are located on the West Coast or Pearl Harbor areas. Monitoring offices are established at Naval Shipyards Puget Sound, San Francisco, Mare Island, Naval Base Commands Terminal Island and Pearl Harbor, and Eleventh Naval District Headquarters.

4. Upon completion of each monitoring of a Crossroads vessel, the local monitor office will provide the Commanding Officer of the vessel with an immediate report of the results obtained, will advise him as to what portions of the vessel require decontamination, and will insure that all applicable Bureau of Ships directives as to prescribed decontamination measures are available on board. It is necessary to observe, however, that the monitor acts in an advisory capacity only, and any recommendations he may make are subject to review and modification by the Ship Clearance Board. The Senior Monitor in each area will forward immediately to BuShips (Code 180A), BuMed (RadSafe), Commander Western Sea Frontier and RadSafe Headquarters Naval Shipyard San Francisco a full report on each vessel monitored. All copies of monitor reports must be signed by the monitors performing inspections.

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5. Commander Western Sea Frontier will grant operational clearance signifying that all normal operation, maintenance and repair can be carried out without hazard provided the safety precautions specified in reference (c) are observed in handling contaminated material. The Bureau of Ships and Bureau of Medicine and Surgery will jointly grant final radiological clearance indicating that no further radiological hazard of any type exists on the ship and that further monitoring of radiological safety precautions are not required.

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6. Detailed instructions to monitors will be promulgated by separate correspondence.

V. H. RAGSDALE,  
Deputy.

/s/  
L.J. BROUSSARD,  
Flag Secretary.

~~CONFIDENTIAL~~ ENCLOSURE (A) to RadSafe C/L #1.

BuShips-BuMed Speedletter Serial 1381 of 24 Sept. 1946.  
To: CinCPac, CWSF, ServPac, ComTWELVE, & Com19thFleet.

Subject: Radiological Clearance of Non Target Vessels and Procedures for Decontamination.

1. COGNIZANCE:

- (a) BuShips has been assigned cognizance of decontamination procedures plus safe operating and maintenance methods in cases of all vessels exposed to radioactivity.
- (b) BuMed assigned responsibility for determining safe radiological limits.
- (c) These Bureaus will act jointly in giving final radiological clearance to vessels after reviewing reports of conditions found.

2. Following applies only to those vessels remaining in active service. Reference ComJoint Task Force L, Serial 079 of 9 September. Where information and instructions this speedletter conflict with reference this speedletter will apply:

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(A) EVAPORATORS

- (a) Open sump or other clean out doors and remove all loose scale under wet conditions.
- (b) Collect all scale carefully in closed containers and segregate until disposal at sea is practicable.
- (c) Subsequently carry out one acid cleaning process. Use two parts eighteen degree baume commercial muriatic acid with fifteen parts fresh water. Fill evaporators with this solution to as near top of shell as practicable. Take necessary steps to prevent solution spilling over into any part of fresh water system by blanking off at pipe flanges as necessary. Circulate mixture through shells and evaporator feed heaters for two hours, beginning with time solution is started into shells. Remove solution, flush thoroughly using boiler compound in flushing water until remaining acid is neutralized. Finally flush thoroughly with fresh water. Insure by tests that none of acid solution has gained access to any portion of entire system which normally is in contact with fresh water or vapor. Observe usual precautions handling acids. Do not REPEAT NOT heat solution. SAN BRUNO FRC
- (d) The above procedure applies to all types of evaporators except badger types having double A and triple A types heat exchanger
- (e) For these units boil out for 96 hours at temperature of 200 fahrenheit, using one pound boiler compound to 10 gallons fresh water. Used acid mixture to be collected and disposed of at sea. No REPEAT NO additional acid cleanings are necessary and evaporators subsequently are to be operated and maintained in routine manner.

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DOE,oc dated 6/16/87

H. LUBRICATING OIL COOLERS AND OILS STATUS  
(EXCEPT CONDENSERS) USING SALT WATER FOR WASH

(a) If monitors have shown existence of any measurable radiation use one acid treatment for salt water ssee as in (A) above, except use acid in one half of the proportion specified. Subsequent operation and maintenance will be in routine manner and no further acid cleanings will be required.

(b) Vessels of Task Unit 1.2.7 (Salvage Unit) generally had contaminated coolers because of their extensive employment in radioactive waters.

C. Desire (A) and (B) carried out as soon as practicable, preferably by ships force, but not REPEAT NOT to interfere with scheduled operations.

D. DOCKING

(a) All vessels can be docked when desired.

(b) Following procedure applies first docking only after leaving Bikini Lagoon:

1. Marine growths to be removed by scrapers as dock is pumped down. Pumping rate to be adjusted so that marine growth is kept wet.

2. Collect all marine growth practicable from dock, keep it wet at all times and dump at sea beyond 100 fathom line or at least ten miles at sea.

E. SANDBLASTING AND PAINTING UNDERWATER BODY.

(a) Carry out regular wet sandblasting procedure insuring wet conditions.

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(b) Keep dock floor wet during operation.

(c) Collect all of sand practicable, maintaining wet condition until dumped at sea as in (D) above.

F. Desire (D) and (E) above carried out at first scheduled docking of vessels involved.

G. Monitors are desirable but not REPEAT NOT essential for above operations if carried out as directed herein. Monitors should be requested from Radiological Safety Officer, Twelfth Naval District, and will be furnished if practicable.

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## H. SALT WATER LINES

- (a) Tests have demonstrated that all routine repairs involving cutting and welding can be performed by ships and yards with no REPEAT NO dangers being involved.
- (b) However, in all cases where a section of line is renewed the old section shall be retained, segregated and dumped at sea.
- (c) Any fowling removed from salt water lines should be handled and disposed of as in (A) above.

## I. MAIN AND AUXILIARY CONDENSERS.

- (a) Renew all zincs, segregate and dispose of at sea.
- (b) To be done as soon as practicable by ships force.

## J. SHIPS BOATS

- (a) Any boats not REPEAT NOT already disposed of will be retained and treated as follows:
  1. Scrub entire hull thoroughly with strong mixture of lye and boiler compound.
  2. Use long handled scrubbers and remove as much of paint as practicable in this operation.
  3. Subsequently repaint with four coats of paint.
  4. Rudders and screws also should be scrubbed with above mixture
  5. If monitors have reported any activity in engines or coolers circulate acid mixture as in (B) above.
  6. Exhaust pipe tails similarly reported active should be renewed and dumped at sea. Fenders and canvas reported active should be renewed and sunk at sea.
- 7. To be done as soon as practicable by ships force.

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K. Structural repairs on these vessels are not involved and can be performed with no restrictions.

L. BuShips will issue any further instructions or modifications required. Make reports on items above when accomplished to BuShips and BuMed and to Radiological Safety Officer, Com 12. Note that in each case (A) through (J) the specified operation is required to be performed only once. Subsequently conditions will be the normal ones which will require no REPEAT NO further precautions and special considerations.

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- M. Tests and development work have demonstrated that all of the above specified procedures can be carried out safely and without exposing personnel to any hazards. However, in order to insure absolute safety, personnel should be supervised and precautions described in reference letter observed. The radioactivity present is of very low intensity. Some of the procedures specified are for security reasons only.**
- N. Vessels being deactivated and those scheduled for disposal will require somewhat different instructions. These will be promulgated at an early date by Bureau of Ships.**
- O. Addressees pass to Type Commanders and vessels involved.**
- P. Request radiological safety officers in HAVEN and San Francisco furnish BuShips, Code 180, and BuMed copies of all monitor reports to date and future monitorings.**

**/s/ ROSS T. McINTIRE**  
Chief of the Bureau of  
Medicine and Surgery

**/s/ E. L. COCHRANE**  
Chief of The Bureau of Ships

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