

Col. Harold
Minutes of Conf
J. H.

BUREAU OF SHIPS

MINUTES OF CONFERENCE

Minutes of Conference of Ships' Distilling Plants, Condensers, Heat Exchangers, and other Apparatus Employing Salt Water Cooling, 7 May 1946

DATE: 3 May 1946
PLACE: Bureau of Ships, Room 74-2018.
TIME: 1400
SUBJECT: Radiological Hazard from Contamination of Ships' Distilling Plants, Condensers, Heat Exchangers, and other Apparatus Employing Salt Water Cooling.
REFERENCE: (a) Memorandum from 013E to J-0 dated 27 April 1946.
PRESENT: Capt. O. Schneider, (MC), Code 180, Bureau of Ships.
Comdr. E. P. Harris, (MC), 015A.
Comdr. W. W. Keller, Code 180, BuShips (014R).
Comdr. B. O. Delaney, Code 180, BuShips (014R).
LtCdr. N. A. Wulpsan, (MC), 013E.
LtCdr. Jack Leckie, (015R).
Mr. H. W. Bethon, Code 646, BuShips.
Mr. G. B. Emerson, Code 646, BuShips.

1. The conference was called to discuss and evaluate, insofar as possible, the radiological hazard from contamination of ship's distilling plants, condensers, heat exchangers and other apparatus using salt water cooling during and after Tests A and B. Reference (a) was reviewed.
2. It was concluded that:
 - (a) In heat transfer or other apparatus using salt water cooling, radioactive material in the water will probably be coprecipitated with the salts, the major factor in the rate of precipitation being the temperature of the salt water coolant. As a result, dangerous concentrations of radioactive material may accumulate, and this may occur even though the salt water has previously been determined safe to personnel. The concentration of radioactive material deposited in the apparatus would increase in proportion to the rate of precipitation of salts.

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3. It is therefore recommended that:

- (a) No ships' distilling plants, heat exchangers or other apparatus employing salt water cooling, having a relatively high rate of salt precipitation, be operated after each test until the sea water used has been declared safe for such use by the Radiological Safety Section, CJTF-ONE.
- (b) All ships arrange to have fresh water tanks full prior to each test.
- (c) Where it is necessary to operate distilling plants, heat exchangers or other like apparatus during or after the tests, using salt water not declared free of radioactive materials, special monitoring attention be given such apparatus.

O. Schneider,
Capt. (MC), U.S.N.

cc: Dir. Ship Material (USS WILMINGTON)
Radiological Safety Advisor ←
All persons at Conference
Code 180 BuShips (Rear Echelon)