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l. Reference is made to a conference 12 August on the Fall River concerning the possibilities of operating the engine and machinery of the capital ships in the target group, in order to pump them out or make a thorough study of their internal structures. Fertinent is the fact that many ships have games radiation intensities low enough in appropriate places to permit occupancy for considerable lengths of time. This would seem to permit such operation or study. This is not the case.



- 2. The widespread presence of an alpha emitter has been demonstrated in the target area. It accompanies the gamma and beta emitters everywhere in a definite proportion and the presence of beta emitters in even moderate intensities is an indication that it is present in dangerous if not lethal amounts. Every contaminated place as evidenced by the gamma or beta radiation on any surface of any vessel may be in fact the residence of many lethal doses of this alpha emitter. This alpha emitter is of the most eiseness chemical imoun. It can only be measured with very precise equipment which is not available and cannot be made available.
- 3. The following facts have been observed in these vessels by Red Safe:
 - (a) The ventilating systems and inner compartments are heavily contaminated in most of these ships. This is visibly evident in some.
 - (b) The dry and apparently undisturbed dust in inner compartments below decks, in undamaged spaces not obviously contaminated nor easy of access to the outside, has been found to be heavily contaminated with fission products, in large amounts.
 - (c) Extensive cleaning or decontamination of painted surfaces even to the extent of removal of the paint while greatly reducing them (by 90% in some cases) has failed so far to remove all the fission products (as tested for gamma, 1866)

and beta rediation). Furthermore obtains and discolving of closmed metal surface with sold as performed on the U.J.J. Her Mork has shown that the content of the alpha emitter was increased by the decontamination in the residual contamination by a factor of two.

- (d) The initial contemination of surfaces was so great that reduction on the deck and other surfaces of 90% or more still leaves large and dangerous quantities of fission and alpha emitters scattered about.
- (e) Wooden surfaces because of their grain are known to absorb these materials deep within their substance and therefore cannot be closued without removal of the surface.
- (f) Contemination of personnel, clothing, hands, and even food can be demonstrated readily in every ship in the JTF-1 in increasing amounts day by day.
- 4. The following uncontestable conclusions follow:
 - (a) The use of blowers for either exhaust or intake ventilation or any action that will cause dust to move about is a potentially dangerous inhalation hexard to all personnol involved.
 - (b) The use of personnel for cleaning without proper indoctrination and special complex protective equipment, particularly in the inside of scips is exceedingly desperous. This hazard is not obvious and varies very greatly from place to place. Without special equipment and the properly trained personnel to measure each site for alpha emitters (and very few qualified personnel are available in the United States) no one can say any place is safe for any siven i mother of time.
 - (c) Therefore no further work must be permitted in the contaminated terrot only sublimut well organized and adoquate sufoquirds including special equipment for account.

and proper radiological equipment.

- (d) Present use of Task Porce personnel should therefore be restricted to the recovery of instruments and limited surveys within the limits of the short periods set and consistent with safety. This period will include shutting up target ships which have been opened, installing pumping gear where possible, and preparations for towing.
- (e) It is bolisved that such short time contact as has occurred so far and will occur in the stabilization period now ensuing will not result in any injury to the personnel involved. It is expected that further contact will involve rapidly decreasing numbers of personnel.

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