

## MATERIAL CONDITION OF READINESS

In order to use compartmentation to its fullest advantage and to provide maximum preparedness, all the doors, hatches scuttles access valve and fittings of damage control valves are classified and manned. Navy vessels maintain different material conditions according to whether contact of enemy is improbable or imminent. Each condition represents a different degree of tightness.

To avoid confusion and frequent changes in regards to damage control fittings, settings are referred to by an old phonetic alphabet.

### 1. Reason for classification of Fitting:

- a. Maintain the maximum degree of water tight integrity consisting of working requirements and health and comfort of the crew.
- b. Maintain the maximum degree of readiness for battle station consistent with the demands of tactical situation.
- c. Minimize the amount of time it takes to put the ship in a battle condition without jeopardizing the operational ability of the ship and the comfort of the crew.

### 2. Definition of Material Condition:

#### a. Condition X-RAY – Enemy improbable – Color Black.

- 1) Setting provided the least amount of protection and in use only in well-protected harbors.
- 2) When condition X - Ray is set, all X – Ray fittings are closed except when actually in use.
- 3) Classification X – Ray is assigned to storeroom, tanks, voids, airtight fittings, fire main valve, etc.
- 4) Maintained by the division responsible for the cleaning and maintenance of the space in which classified fittings are located.

#### b. Condition YOKE – Enemy is probable – Color Black.

- 1) Next higher degree of watertight integrity.
- 2) Used in unprotected ports during wartime cruising and entering port or leaving during peacetime.

- 3) When condition YOKE is set, all X – Ray and YOKE fittings are closed except when in use for the operation of the ship.
- 4) Classification is assigned to workshop, airport, lens, pump-room, and fire main segregation valves.
- 5) Set daily from sunset or at the end of the working day until sunrise.
- 6) This condition is set and maintained by the division responsible for the cleaning and maintenance of the space in which such classified fittings are found.

c. Condition ZEBRA – Enemy is imminent - Color Red.

- 1) Provide for the maximum degree of watertight integrity.
- 2) Used in battle condition, emergency, when entering or leaving port during wartime.
- 3) When condition ZEBRA is set, all X – Ray, YOKE, and ZEBRA fittings are closed.
- 4) Classification ZEBRA is assigned to fittings that would normally be opened at all times, except during battle condition and emergencies.

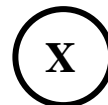
### CLASSIFICATION OF FITTINGS

<u>MAT COND</u>	<u>X – RAY</u>	<u>YOKE</u>	<u>ZEBRA</u>
X-RAY	Closed	Opened	Opened
YOKE	Closed	Closed	Opened
ZEBRA	Closed	Closed	Closed

### 3. Modifications to the Material Condition of Readiness:

- a) Fittings can be opened at a certain time during different conditions of readiness.
- b) Types of Modifications:

- 1) Black Circle X – Ray Black Circle YOKE



1.a Applied to special fittings that give access to battle station ammunition, transfer and operation of vital systems.

1.b Can be opened without DC central permission.

1.c Must be closed when not in use.



## 2) Red Circle ZEBRA

- 2.a Applied to fittings that may be opened during prolonged period of general quarters.
- 2.b Can be opened when authorized by the CO only.
- 2.c Allows for the preparation and distribution of battle ration and for ventilation of vital spaces such as engineering rooms, etc.
- 2.d When opened, these fittings are equipped with quick action devices.

## 3) Red ZEBRA Surrounded by a D

- 3.a. Applies to fitting that have access to weather deck not equipped with tight locks.
- 3.b. Fitting used for darken ship.

## 4) Circle Williams – Color Black



- 4.a Applies primarily to ventilation fittings.
- 4.b Certain access opening which are closed only in the event of NBC attack to prevent smoke or other airborne contamination from entering the ship.
- 4.c Applies to non-vital sea section valves which when secured would not impair the mobility or fire protection of the ship.

## 5) Williams

- 5.a Special classification assigned to fittings essential for the operation of the ship such as valves, in piping system needed for safety and operation of the ship.
- 5.b If closed would seriously hamper the mobility and fire protection of the ship.
- 5.c Closed only to effect repairs or when causing flooding.