

## A Bad Day for ASW – Potable Water Pump Room 3-59-0-E – AC Flats 3-33-01-E

From: Damage Control Training Team (DCTT)  
To: Commanding Officer, USCGC HEALY (WAGB-20)  
Subj: Drill Date: 12 August 2004

Used This Drill	Prop / Simulation	Simulated Casualty
X	Blue Rag	Flood Water (Potable Water room / Reefer flats)
X	MPCMS Alarm for Flooding in Potable Water Room	MPCMS Alarm
X	MPCMS Alarm for Flooding in AC Flats	MPCMS Alarm from water collecting during roll
X	Blue light on string	Rising falling water

The following safety issues / simulations will **ALWAYS** be in effect onboard *HEALY*:

- A. Activation of installed CO<sub>2</sub> Flooding System / AFFF flooding system / Salt water flooding system.
- B. Charging of fire hoses in any machinery space.
- C. Discharge of portable fire extinguishers without specific direction from a DCTT/ECCTT member.
- D. Destructive access or clearance of equipment for simulated DC efforts.
- E. Spraying water on any Helo.

DCTT Communications: primary WIFCOM channel 4 secondary Dial phone.

DCTT Mode of training: **Walk through**

Repair locker mode of training: **Walk through**

SAFETY WALK THROUGH:

**Completed by ALL DCTT in perspective areas.**

Complete ½ hour prior to drill.

Report to DCC [REDACTED] when walk through is complete.

Risk assessment

Number \_\_\_\_\_

Green      Amber      Red

**(b)(6)&(7)(c)**

**OBJECTIVES THIS DRILL:**

- 2.1 Report the Flooding
- 2.2 Take Initial Actions
- 2.5 Assess the Casualty and Identify the Required Equipment
- 2.7 Set Flooding Boundaries
- 2.8 Orders and Complete Electrical Isolation
- 2.10 Repair Ruptured Piping
- 2.9 Erect Shoring

**DCTT Members & Assignments:**

<b>Member Name</b>	<b>Assignment</b>	<b>Tasking Sheet</b>
DCC [REDACTED]	Torch P/W room / initial responder	2.1 , 2.2 , 2.5
EMC	ECC	2.1 , 2.2 , 2.8
EO	OOD / DCA	2.7
DC2 [REDACTED]	OSL / TL	2.5 , 2.10 , 2.9
MK1 [REDACTED]	Boundary men	2.7
BMC [REDACTED]	Locker leader	2.7
HSC	Medical	as per medical drill pack
1 <sup>ST</sup> LT	Flooder / initial responder	2.1, 2.2, 2.5
MK1 [REDACTED]	Dewatering / shoring team	2.5 , 2.10
ET1 [REDACTED]	FWD investigators	2.5
EM1	Aft investigators	2.5

**SCENERIO:**

While engaged in breaking heavy ice in support of AWS 2004, HEALY is experiencing heavy vibration. During one particularly strong oscillation, a pipe ruptures and a valve seal fails at approximately the same time. In the potable water pump room 3-59-0-E (PWR), the weld connecting two sections of the ASW return line from the A/C Flats (6" pipe in port, forward, upper corner) completely fails, resulting in water entering the compartment. In the AC Flats (ACF), the constant vibration coupled with heavy impact results in the valve seal failing at the #2 A/C Chiller pressure regulation station, putting water into the space.

The drill begins with a flooding alarm received in ECC for compartment 3-59-0-E (PWR). The Initial Responder will find the flood level to be approximately 12" of water on deck and a large amount of water pouring from the readily marked ASW return line. Upon reporting to the EOW, the report will be passed to the OOD who will then pipe flooding and set GE.

After the water source is secured the space will be dewatered and a pipe pitch will be installed.

**(b)(6)&(7)(c)**

Ten minutes into the drill, the ship rolls slightly to starboard so as to result in the water spilling failed valve seal in the ACF to collect under the flooding alarm, sounding a second flooding alarm on MPCMS. The EOW should contact the bridge via the 21MC to report the alarm; in turn the investigators should be dispatched to investigate the alarm. Upon finding the damaged valve, the aft investigators should report their findings. Repair locker shall request ECC send TOW to assist investigators.

The drill will end when the P/W room is dewatered the ASW line has a patch on it and the valve on the refer deck has been bypassed.

**Training Time Out:** A training time out may be called by training team members if a situation arises that requires more time to train than allowed in the timeline. Additionally, training time out may be called if watchstander(s) is performing procedures incorrectly and corrective action and/or on scene training by the training team member will disrupt the timeline. Training time out may be called in the training team loses control of the drill. **Training Time In** shall be given by the training team leader when situation is corrected or proper training has been completed.

**Safety time out:** Safety is the primary concern when training. A safety time out may be called by any crewmember or training team member if a watchstander places themselves or equipment in an unsafe environment or condition. In a safety time out the drill will be stopped and corrective action will be taken to correct the situation. The **Commanding Officer** has exclusive authority to restart the drill once he is satisfied that the condition to run the drill are safe.

██████████, DCC  
DCTT Leader

XO\_\_\_\_

██████████, CAPT  
Commanding Officer

(b)(6)&(7)(c)

## STRUCTURAL DAMAGE SCENARIO 12 August 04

ITT TIME Potable Water Pump Room 3-59-0-E – AC Flats 3-33-01-E

\_\_\_\_\_ STRUCTURAL DAMAGE: Broken ASW line  
DAMAGE HOLE SIZE 6 inch pipe separated  
**PORT** / STBD / CL / DECK / **OVHD** / BLKHD / 1FT/Below Water Line  
DISCLOSURE METHOD: Separated pipes attached to installed pipe / pipe mock up  
DCTT: DCC

\_\_\_\_\_ TYPE OF REPAIR: **PLUGGING** / SHORING / OTHER  
TYPE OF SHORING IF USED: I / H / K / WOOD / STEEL  
DISCLOSURE METHOD: pipe mock up  
DCTT: DC2 / DCC

\_\_\_\_\_ UNDERWATER HULL DAMAGE: N/A  
FLOODED SOLID: \_\_\_\_\_  
DISCLOSURE METHOD: \_\_\_\_\_  
DCTT \_\_\_\_\_

\_\_\_\_\_ FLOODING:  
COMPT P/W pump room / FLOODING 1 foot  
**HOLDING** / INCREASING AT \_\_\_\_\_ IN / FT \_\_\_\_\_ MIN(s)  
**CLEAN** / CONTAMINATED  
DISCLOSURE METHOD: Blue light on string / rags  
DCTT DCC

\_\_\_\_\_ FLOODING:  
COMPT Reefer deck / FLOODING 6 inches  
**HOLDING** / INCREASING AT \_\_\_\_\_ IN / FT \_\_\_\_\_ MIN(s)  
**CLEAN** / CONTAMINATED  
DISCLOSURE METHOD: Blue light on string / rags  
DCTT 1<sup>st</sup>.LT

\_\_\_\_\_ FLOODING BOUNDARIES: P/W pump room all boundaries our tanks except the top 2<sup>nd</sup> deck.

\_\_\_\_\_ FLOODING BOUNDARIES: Reefer deck not required

N/A PROGRESSIVE FLOODING WILL ACURE IF FLB NOT SET IN \_\_\_\_MINS OR  
DAMAGE NOT CONTAINED IN \_\_\_\_ MINS. (NOT PLUGGED/PATCHED/ENOUGH  
DEWATERING EQIPMENT RIGGING ETC)

\_\_\_\_\_ ELECTRICAL ISOLATION: **ACTUAL** / SIMULATE  
LOCATION OF SOURCE: \_\_\_\_\_  
DISCLOSURE METHOD: \_\_\_\_\_  
DCTT \_\_\_\_\_

\_\_\_\_\_ MEANS OF DEWATERING:  
**SUB PUMP** / PORT. EDUCTOR / P-1000 / BUCKET&SWAPS  
DECREASING At 3 inches a minute  
**WILL / WILL NOT ENERGIZE PUMP(S)**  
DISCLOSURE METHOD: Actual pump will be broken out and lowered into the space.  
DCTT DC2, DCC