## Mass Casualty

From: Damage Control Training Team (DCTT)

To: Commanding Officer, USCGC HEALY (WAGB-20)

Subj: Drill Date: 1 July 04

| Used This Drill | Prop / Simulation | Simulated Casualty |
|---|---|---|
| | **Aft Coning station (MK1 S)** | |
| X | White packing material in bag | Test for agent CO2 |
| X | Strobe light | Energized electrical panel |
| X | White rag | White smoke |
| X | Can of smoke | Set off smoke alarm |
| X | Blue rag | Test hose for agent water |
| | **Bow Thruster (BMC)** | |
| X | Blue chem. Light | Rising or falling water level |
| X | Blue tape | Water entering ship |
| X | Wire to lift flooding float | Actual flooding alarm |
| X | Blue rags | Water on deck |
| | **Laundry Room (DCC)** | |
| X | Smoke machine | White smoke |
| X | White rag | White smoke |
| X | White packing martial in bag | Test for agent CO2 |
| X | Red flag | Alpha fire |
| X | Blue rag | Test hose for agent hose |

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

A. Activation of installed $CO_2$ 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 Helo's.

F. Dumping the Flume Tank.

DCTT Communications: primary WIFCOM channel 4 secondary Dial phone.

DCTT Mode of training: **Walk through**

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

Risk assessment

Number_____

Green Amber Red

OBJECTIVES THIS DRILL:

A. MOB-D1008 Combat a mass-conflagration casualty.

1) MOB-D1008.1 Establish and maintain communications between controlling stations.
2) MOB-D1008.2 Initiate investigations.
3) MOB-D1008.3 Report fire/ flooding/ structural damage.
4) MOB-D1008.4 Take initial actions.
5) MOB-D1008.5 Order and set fire boundaries.
6) MOB-D1008.7 Order and complete electrical isolation.
7) MOB-D1008.10 Assess conditions/determine FF tactics/ casualty control tactics/ and equipment to be used.
8) MOB-D1008.15 Assess integration between repair lockers/ and the ship.
9) MOB-D1008.18 Erect shoring.
10) MOB-D1008.24 Determine the extent of flooding and liquid load.
11) MOB-D1008.26 Compute effect of damage and counter flooding of shift loads to correct damage.

DCTT Members & Assignments:

| Member Name | Assignment | Tasking Sheet |
|---|---|---|
| EO | Bridge | 1, 3, 10, 11 |
| EM1 P | Repair Locker | 1, 2, 5, 6 |
| MK1 S | Torch Aft Con | 4, 7 |
| DCC | Torch laundry room / Rover | 4, 7 |
| MK1 F | Boundaries | 1, 4 |
| EMC | Repair Electrician | 6, 1 |
| DC2 | On Scene Leader | 1, 3, 7 |
| ET1 | AFT Investigator | 1, 2, 3, 4 |
| 1st LT | FWD Investigator | 1, 2, 3, 4 |
| BMC | Torch bow thruster / team leader | 1, 3, 7 |
| HSC | Stretcher Bearer SCBA Change out | As per medical MOB |

**SAFETY WALK THROUGH: Completed by ALL DCTT in perspective areas.**
**(b)(6)&(7)(c)** Complete ½ hour prior to drill.
Report to DCC [redacted] when walk through is complete.

Scenario:

HEALY is underway, backing and ramming into a multi-year ice pressure ridge. During an earlier part of the mission, Healy lost the intake grating on the sea bay for the #1 Fire pump. After striking a pressure ridge, Healy takes a 10 degree starboard roll causing FS3 [redacted] to trip and fall onto a knife that he is carrying, creating a sucking chest wound. Medical Personnel are piped to lay to the galley to respond. In AFT CONN MSTC notices some smoke coming out of panel 01-129-1, as he opens it he is shocked and burned on the right hand and falls to the deck unconscious. Smoke pours out of the panel setting off a smoke alarm. When initial responder arrives on scene in AFT CONN he makes a report and stands by with Co2 extinguisher and awaits repair party electrician. As the report of smoke in AFT CONN is received a flooding alarm is sounded in the Bow Thruster Sewage Treatment Room. Investigators lay to the scene to discover that, due to the pressure ridge Healy rammed into, multi year ice has forced the suction piping for the #1 fire pump to be pushed up and broken in half below the cut off valve, so there is a 10 inch diameter hole on the suction side of the fire pump and causing 8781 GPM of water to be let into the space. Main Drainage will pump out 565 GPM, and the team will be forced to evacuate the space and secure and shore the Port hatch. The Starboard hatch will hold and not require immediate shoring. Meanwhile back in the laundry room, a swab bucket rolls across the laundry room and rams into the forward outboard dryer, causing lint to be rustled up into the heating elements and thus creating an Alpha fire. One of the standby personnel in the locker notices the smoke and goes to look at the problem he/she will suffer smoke inhalation. Other personnel in the locker respond to and extinguish the laundry room fire. For DCTT drill will be completed when all fires are extinguished, shoring is completed and all medical casualties are treated.

Description of damage:

Charlie fire in electrical panel 01-129-1
Flooding resulting in a loss of the Bow Thruster Sewage Treatment Room. 10-inch hole in firemain supply
Alpha fire in Laundry Room

Drill brief knots:

1) EM1 [redacted] will be the EOW and will not respond to his billet on the H/V team.
2) The drill will not secure until all objectives for each training team have been met. This will be passed by the XO when he receives word from each training team leader that their objectives have been met.
3) BMC will activate the flooding alarm for the bow thruster sewage treatment room than move to the refer deck and watch the shoring team.
4) The #1 fire team will respond to the Charlie fire in Aft Conning.
5) The Pipe patching and plugging team will respond to the Bow thruster sewage treatment room flooding. This team will work separately from the fire team.
6) Any member of the locker may discover the laundry room fire and be over come with smoke. Extras in Repair II will take action and extinguish the fire in laundry.
7) Both fire teams will be called at +18 for a major lube oil spill in #2 engine room.

**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.
Train**ing 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.

[redacted] [redacted], DCC XO___ [redacted], CAPT

DCTT Leaders Commanding Officer **(b)(6)&(7)(c)**

# STRUCTURAL DAMAGE SCENARIO

**Mass Casualty Bow Thruster**

ITT TIME Bow Thruster Sewage Treatment Room 4-33-0-E

+02 STRUCTURAL DAMAGE:
DAMAGE Broken section of pipe. SIZE 10 IN
**PORT** / STBD / CL / **DECK** / OVHD / BLKHD / **20FT Below Water Line**
DISCLOSURE METHOD: Blue rags on deck. Blue tape streaming from pipe. Blue chem. light.
DCTT: DCC [redacted]

_____ TYPE OF REPAIR:PLUGGING / **SHORING** / OTHER
TYPE OF SHORING IF USED: I / H / K / WOOD / STEEL
DISCLOSURE METHOD: At the discretion of the team leader.
DCTT

_____ UNDERWATER HULL DAMAGE:
FLOODED SOLID: Bow thruster room will be flooded solid
DISCLOSURE METHOD: Blue tap on deck at hatch #
DCTT: BMC

_____ FLOODING: Flooded solid
COMPT.(S) _____ / FLOODING ____ IN / FT HOLDING / INCREASING AT _____ IN / FT_____ MIN(s)
CLEAN / CONTAMINATED
DISCLOSURE METHOD: Blue tap on deck at hatch #
DCTT: BMC

_____ FLOODING BOUNDARIES:
FWD SEC **bulkhead 9** FWD PRI **bulkhead 33** AFT PRI **bulkhead 48** AFT SEC **bulkhead 63**
**3rd.** DECK AND BELOW
DISCLOSURE METHOD: piped
DCTT: All

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 EMC

_____ MEANS OF DEWATERING: installed system
SUB PUMP / PORT. EDUCTOR / P-100 / BUCKET&SWAPS
DECREASING AT _____ IN / FT _____MIN(s)
WILL / WILL NOT ENERGIZE PUMP(S)
DISCLOSURE METHOD: BLUE STREAMER_____
DCTT: MK1 S

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

# Class Charley Fire

**Mass Casualty Aft Conning station**

ITT TIME Aft Conning Station 01-129-0-Q

+01 CLASS OF FIRE: Charley
DISCLOSURE METHOD: Strobe light
DCTT: MK1 S

_____ **SCBA'S WILL** / WILL NOT **BE ACTIVATED**.
POSITIONS ASSIGNED TO ACTIVATE: All as required
DISCLOSURE METHOD: Actual
DCTT: All

_____ HOSE TEAM RELIEFS: REQUIRED / **NOT REQUIRED**
SCBA CHANGE-OUT STATION(S): N/A
DCTT: BMC

_____ EGRESS OF AREA:
**EEBD / SEED** IS / **IS NOT REQUIRED**.
TRAINER / ACTUAL EEBD/SEED WILL BE USED.
DISCLOSURE METHOD: Vary little smoke
DCTT: MK1 [redacted]

_____ FIRE FIGHTING ENSEMBLE:
**WILL BE DONNED** / WILL NOT BE DONNED / DON THEN DOFF
DCTT: EM1 [redacted]

N/A RAPID RESPONSE TEAM: Ship is at GE
EXTINGUISHES FIRE / CONTAINS FIRE / GQ REQUIRED
DCTT:

N/A FIREHOSE Combat with CO2 extinguisher
DRY / CHARGED & SECURED AT THE PLUG BY DCTT
DISCLOSURE METHOD:
DCTT:

_____ ELECTRICAL ISOLATION:
SIMULATE / **SECURE POWER** / EXCEPTION OF
LOCATION OF SOURCE: _____
DISCLOSURE METHOD: DCTT will allow breaker to be secured
DCTT: EMC

N/A MECHANICAL ISOLATION: (IF REQUIRED)
SYSTEMS ISOLATED: _____
ACTUAL / SIMULATED / EXCEPTION OF _____
VALVE(S) NUMBERS: _____
ACTUAL / SIMU.ATED / EXCEPTION OF _____
METHOD OF DISCLOSURE: _____
DCTT: _____

____ BOUNDARY HOSE:
DRY / **CHARGED & SECURED AT THE PLUG BY DCTT**
METHOD OF DISCLOSURE: Actual
DCTT: All

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

_____ FIRE BOUNDARIES REQUIRED AT:
ABOVE: Flight deck HOT / **COLD** BELOW: Science Hoist HOT / **COLD**
PRI FWD: Bulkhead 129 HOT / **COLD** PRI AFT: Bulkhead 135 HOT / **COLD**
SEC FWD: Bulkhead 123 HOT / **COLD** SEC AFT: N/A HOT / COLD
PORT: 01-117-4-L HOT / **COLD** STBD: Weather deck HOT / **COLD**
METHOD OF DISCLOSURE: Actual
DCTT: All

N/A FIRE WILL SPREAD AFTER ____ MINUTES TO THE FOLLOWING SPACE(S):
_____ _____
_____ _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ SMOKE BOUNDARIES REQUIRED AT: Same as fire boundaries
PRI FWD: _____ PRI AFT: _____
SEC FWD: _____ SEC AFT: _____
SMOKE CURTAINS AND BLANKETS REQUIRED: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ SPACE ACCESS:
**INITIAL ACCESS** / ALTERNATE ACCESS
INACCESSIBLE FITTING(S): NTD 01-133-2
ACCESS EQUIPMENT REQUIRED / **NOT REQUIRED**
METHOD OF DISCLOSURE: Hot and jammed prop will not be in place
DCTT: MK1 [redacted]

_____ FIRE ATTACK:
**DIRECT** / FOG ATTACK / INDIRECT ATTACK
METHOD OF DISCLOSURE: Actual
DCTT: DC2

N/A ACTIVE DESMOKING: REQUIRED / NOT REQUIRED
EXHAUST FAN: REQUIRED / NOT REQUIRED AT ACCESS: _____
ROUTE TO BE USED: _____
MAKE UP AIR ROUTE: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ FIRE CONTAINED:
METHOD OF DISCLOSURE: Strobe light off white rag removed
DCTT: DC2 / MK1 [redacted]

_____ FIRE OUT:
METHOD OF DISCLOSURE: EM secures power to box
DCTT: EMC

_____ OVERHAUL OF FIRE:
NUMBER OF HOT SPOTS: none
EQUIPMENT REQUIRED: EM secures power and checks to insure panel is electrically isolated.
METHOD OF DISCLOSURE: Repair electrician starts to run a red tag
DCTT: EMC

N/A FIRE FIGHTING WATER ON DECK:
HOW MUCH: _____
METHOD OF DEWATERING: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

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

_____ SPACE DESMOKING:
EQUIPMENT: Natural
ROUTE:
METHOD OF DISCLOSURE: _____
DCTT: DC2 / MK1 S

N/A ATMOSPHERIC TESTING:
O2 % _____ DISCLOSURE: _____ ACTUAL / SIMULATED
EXP % _____ DISCLOSURE: _____ ACTIAL / SIMULATED
T = _____PEL DISCLOSURE: _____ ACTUAL / SIMULATED
DCTT: _____

AMPLIFYING INSTRUCTIONS:

# Class Alpha fire

Mass Casualty Laundry Room

ITT TIME Class Alpha fire in laundry room 2-33-3-Q

_____ CLASS OF FIRE: Alpha
DISCLOSURE METHOD: smoke machine / smoke detector
DCTT: DCC

_____ **SCBA'S** WILL / **WILL NOT** **BE ACTIVATED**.
POSITIONS ASSIGNED TO ACTIVATE: All required
DISCLOSURE METHOD: Actual
DCTT: DCC

_____ HOSE TEAM RELIEFS: REQUIRED / **NOT REQUIRED**
SCBA CHANGE-OUT STATION(S): _____
DCTT: _____

_____ EGRESS OF AREA:
**EEBD / SEED** IS / **IS NOT / REQUIRED**.
TRAINER / ACTUAL EEBD/SEED WILL BE USED.
DISCLOSURE METHOD: _____
DCTT: _____

_____ FIRE FIGHTING ENSEMBLE:
WILL BE DONNED / **WILL NOT BE DONNED** / DON THEN DOFF
DCTT: DCC

N/A RAPID RESPONSE TEAM: Ships at GE
EXTINGUISHES FIRE / CONTAINS FIRE / GQ REQUIRED
DCTT: _____

_____ FIREHOSE
DRY / **CHARGED & SECURED AT THE PLUG BY DCTT**
DISCLOSURE METHOD: Actual
DCTT: DCC

_____ ELECTRICAL ISOLATION:
SIMULATE / **SECURE POWER** / **EXCEPTION OF 110 lighting**
LOCATION OF SOURCE: _____
DISCLOSURE METHOD: Actual
DCTT: EMC

N/A MECHANICAL ISOLATION: (IF REQUIRED)
SYSTEMS ISOLATED: _____
ACTUAL / SIMULATED / EXCEPTION OF _____
VALVE(S) NUMBERS: _____
ACTUAL / SIMU.ATED / EXCEPTION OF _____
METHOD OF DISCLOSURE: _____
DCTT: _____

N/A BOUNDARY HOSE:
DRY / CHARGED & SECURED AT THE PLUG BY DCTT
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ FIRE BOUNDARIES REQUIRED AT:

| | | | |
|---|---|---|---|
| ABOVE: 1-33-0-Q | HOT / **COLD** | BELOW: 3-33-01-E | HOT / **COLD** |
| PRI FWD: 33 | HOT / **COLD** | PRI AFT: 48 | HOT / **COLD** |
| SEC FWD: 21 | HOT / **COLD** | SEC AFT: 63 | HOT / **COLD** |
| PORT: 2-33-1-L | HOT / **COLD** | STBD: Skin of ship | HOT / **COLD** |

METHOD OF DISCLOSURE: Piped over 1MC
DCTT: EO

N/A FIRE WILL SPREAD AFTER ____ MINUTES TO THE FOLLOWING SPACE(S):
_____ _____
_____ _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ SMOKE BOUNDARIES REQUIRED AT: Same as fire boundaries.
PRI FWD: _____ PRI AFT: _____
SEC FWD: _____ SEC AFT: _____
SMOKE CURTAINS AND BLANKETS REQUIRED: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ SPACE ACCESS:
**INITIAL ACCESS** / ALTERNATE ACCESS
INACCESSIBLE FITTING(S): NTD 2-41-1
ACCESS EQUIPMENT REQUIRED / **NOT REQUIRED**
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ FIRE ATTACK:
**DIRECT** / FOG ATTACK / INDIRECT ATTACK
METHOD OF DISCLOSURE: Actual
DCTT: DCC

_____ ACTIVE DESMOKING: REQUIRED / **NOT REQUIRED**
EXHAUST FAN: REQUIRED / NOT REQUIRED AT ACCESS: _____
ROUTE TO BE USED: _____
MAKE UP AIR ROUTE: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ FIRE CONTAINED:
METHOD OF DISCLOSURE: Flags at waist level
DCTT: DCC

_____ FIRE OUT:
METHOD OF DISCLOSURE: Flags removed from sight
DCTT: DCC

_____ OVERHAUL OF FIRE:
NUMBER OF HOT SPOTS: none
EQUIPMENT REQUIRED: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

_____ FIRE FIGHTING WATER ON DECK: none
HOW MUCH: _____
METHOD OF DEWATERING: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

N/A SPACE DESMOKING:
EQUIPMENT:
ROUTE: _____
METHOD OF DISCLOSURE: _____
DCTT: _____

N/A ATMOSPHERIC TESTING:
O2 % _____ DISCLOSURE: _____ ACTUAL / SIMULATED
EXP % _____ DISCLOSURE: _____ ACTIAL / SIMULATED
T = _____PEL DISCLOSURE: _____ ACTUAL / SIMULATED
DCTT: _____

AMPLIFYING INSTRUCTIONS: