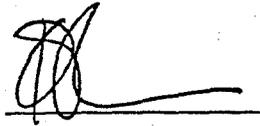


DCO

DCTT LDR:

Approved: CO



# USS COLE (DDG 67)

## DCTT BRIEF

1. GENERAL DESCRIPTION: During normal underway operations, Combat identifies incoming low slow flyers carrying Chemical gas. USS COLE passes through a chemical gas cloud, ship cannot correct course in time and must pass through the cloud.

2. OBJECTIVE: Training exercise for the crew in the use of CBR Defense.

3. Mode of training: Evaluation. General Quarters. (ORM Tenet: Supervise)

4. The training period will be between TBD.

5. FXP-4 Drill to be conducted during this training period:

MOB-D-15-SF

Chemical Attack

6. Degraded Equipment: None

7. Medical Training: None

8. LESSONS LEARNED LAST DRILL: \_\_\_\_\_

9. Repair party will be debriefed on station after the drill. DCTT debrief will be conducted following the drill.

10. DCTT/ Assignments:

DCTT Leader	LCDR	(Q)
DCC	MS1	(Q)
OOD	QMC	(Q)
Rover	GSMC	(Q)
Rover	HCMC	(Q)
Repair 2 Locker	PNC	(Q)
Repair 2 External Monitor	SKC	(Q)
Repair 2 Internal Monitor	GMC	(Q)
Repair 3 locker	HT1	(Q)
Repair 3 External Monitor	MA1	(Q)
Repair 3 Internal Monitor	SHC	(Q)
Repair 5 locker	STGM	(Q)
Repair 5 Internal Monitor	ENC	(Q)
FWD Decon	DC1	(Q)
AFT Decon	DC1	(Q)
Medical	HMC	(Q)

is  
next  
lines

11. SAFETY: (ORM Tenet: Assess risks vs benefits) DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR. THE DCTT MEMBER WILL "FREEZE THE DRILL" AND NOTIFY THE DCTT LEADER OF THE SITUATION. ONCE THE SAFETY OR PROBLEM HAS BEEN CORRECTED ALL DCTT MEMBERS WILL BE NOTIFIED TO CONTINUE THE DRILL. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE DCTT LEADER OF THE SITUATION. ONLY IF PERSONNEL ARE NOT CORRECTLY HANDLING THE CASUALTY WILL DCTT ASSIST IN RESTORING THE CASUALTY. IF THE PERSONNEL INVOLVED ARE CORRECTLY RESTORING THE CASUALTY DCTT WILL EVALUATE THEIR ACTIONS. THE DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

12. (ORM Tenet: ID Hazards) Safety walk through will be conducted prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill. Notify DCTT Leader when complete.

13. DCTT Communications: DCTT WICS ITT1 channel.

14. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. -No water spray into vents, ship hull openings, weather deck electrical equipment or outlets.
- B. -No straight stream discharge from nozzles on weather decks.
- C. -Man rails/life lines must stay in place.
- D. -Set circle William prior to activating CMWD system.
- E. -No running, or straddling hoses.
- F. -Hold hand rails going up and down ladders.
- G. -Do not activate any installed firefighting systems or place the in-line educator suction apparatus in foam container.
- H. -Do not use ship's medical supplies for simulated casualties.
- I. -Observe personnel in ACPG Suits for signs of heat stress.

15. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

- A. -Activation or energizing firefighting equipment.
- B. -Contaminated materials.
- C. -Activation of CMWD.
- D. -All hands dressing in ACPG suits (one per locker).
- E. -Using actual M256.
- F. -Setting Circle William
- G. -Distributing and installing unopened canisters.
- H. -Breaking out, prepositioning and issuing protective clothing, M-291 Decontamination kits and Medical supplies.
- I. -Prepositioning and filling canteens.
- J. -Prepositioning spare clothing.
- K. -Striking down nonessential and absorbent materials.
- L. -Masking tape with M-8/9 written on it.

16. TIME LINE:

MOPP LEVEL ONE - Set Readiness Condition III (if not set). Verify assignments to CBR Defense teams. Make MCU-2P gas masks available to new personnel.

MOPP LEVEL TWO - Ship enters op area of known or possible chemical threat. All hands required to maintain protective mask in carrier and on person. Modified Condition Zebra set throughout the ship. Test ships chemical alarm, Post M-8/9 paper and Operational Inspection of CMWD (simulated).

DCTT ACTION - Ensure all hands have protective mask on person (Hip carrier only) Ensure proper setting of mod-Z, proper posting of M8/M9 paper and insuring decon station personnel pre-position contamination supplies.

T+45 MOPP LEVEL THREE - Tactical signal received from battle group commander "WARNING YELLOW/CHEMICAL ATTACK PROBABLE". All hands to General Quarters. Top side personnel proceed to ready shelter. Primary and Secondary decon station activated. CMWD activated intermittently (Actual on the 16th Simulated evry outhr drill). All hands don CPO suits (Hood down, boots with gloves carried) (Simulated). Repair 5 fire party will be in FFE's and also one primary hose team in lockers 2 & 3.

DCTT ACTION - Dress out one person in CPO Suit per locker. (A external Monitor). Ensure that Repair Locker is aware of who dresses out in FFE's (lighting off of OBA's will be simulated). Ensure no personnel topside and monitors are monitoring M-8/9 Paper.

T+65 MOPP LEVEL FOUR - BGC "WARNING RED/CHEMICAL ATTACK IMMINENT". All hands don Gas Mask secure CPO suit Hood and don gloves. Set Circle William Activate CMWDs continuously (Simulated). Monitor detection equipment.

DCTT ACTION - Ensure all personnel don mask properly and personnel in CPO Suits are dressed out properly. Verify Circle William with setters IAW CBR Bill (relax circle William after verification). Ensure monitors are monitoring M-8/9 paper.

T+70 CHEMICAL ATTACK

DCTT ACTION - Disclose type of cloud and ensure alarm is sounded.

T+75 CLOUD - Ship passed through the chemical cloud.

837  
1845

1850  
0950  
0915 GQ

P.S. [scribble]

JTS  
1930  
114C  
Sandy  
new  
[scribble]

incorporate M8/M9 paper

Appl [scribble] with bill  
sh 11 2 bodies

- DCTT check paper?

Simulated  
no consistency  
ACPOE suits

QMC

T+80 INTERNAL SURVEY - Monitors use routes IAW CBR Bill to check for contamination.

DCTT ACTION - DCTT verify routes.

T+100 EXTERNAL SURVEY - Monitors use routes IAW CBR Bill to check for contamination and make reports to bridge wing.

*front deck*  
DCTT ACTION - DCTT verify routes. Disclose Blister agent at FWD Station 3 and AFT Station 3 to Monitors (Use training M-256).  
*My 2 sub*

T+115 DECON STATIONS - External monitors enter the decon stations. (Rep 2 monitors, FWD Decon, and Rep 3 monitors report to primary decon. (AFT Decon))

DCTT ACTION - AFT. EXTERNAL DCTT stay with scrubbers. DECON STATION DCTT process external monitors through station, cut and save CPO suit for training.

T+130 Set Yoke

H+150 Secure from general Quarters

TOTAL ELAPSED TIME : 2.5 HOURS

- OPERATIONAL RISK MANAGEMENT
- IDENTIFY HAZARDS
  - ASSESS THE RISKS vs BENIFITS
  - EVALUATE CONTROL OPTIONS
  - SUPERVISE

EVOLUTION EVALUATION FORM

ROUTING

ITT LEADER \_\_\_\_\_

TEAM LEADER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT

DATE: \_\_\_\_\_

EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_

WATCHSTATION/ WATCHSTANDER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

2. OTHER PROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

3. COMMUNICATIONS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

4. MATERIAL: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

5. TRAINING TEAM DEFICIENCIES: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

6. RECOMMENDATIONS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

7 NF DCO: \_\_\_\_\_

DCTT LDR: \_\_\_\_\_ Approved: CO \_\_\_\_\_

Date: 15 Aug 00

**USS COLE (DDG 67)  
DCTT BRIEF**

1. GENERAL DESCRIPTION: ITT/DCTT brief. During Condition III steaming, an Air warfare operation drives the ship to General Quarters; 2 missiles hits result, 1 hit mid frame 366, and 1 hit Fwd frame 100, to the port side.

2. OBJECTIVE: Evaluation exercise for the crew in the use of damage control procedures.

3. Mode of training: Evaluation/training if needed. General Quarters. (ORM Tenet: Supervise)

4. The training period will be between TED.

5. CP-4 Drill to be conducted during this training period:

- |             |                                    |
|-------------|------------------------------------|
| MOB-D-3-SF  | Manning battle stations            |
| MOB-D-11-SF | Setting material condition (Zebra) |
| MOB-D-23-SF | Locating damage control fittings   |
| MOB-D-8-SF  | Major Conflagration                |
| FSO-M-6-SF  | Amputation                         |
| FSO-M-3-SF  | Compound Fracture                  |
| FSO-M-11-SF | Burn                               |
| FSO-M-7-SF  | Broken Jaw                         |

6. Degraded Equipment: One NFTI I/P of being repaired by ET's. WIFCOM unreliable.

7. LESSONS LEARNED LAST DRILL: EVERYONE NEEDS TO HAVE ON THE PROPER BATTLEDRESS; WHEN USING THE WIFCOM/WICS WITH THE SCBA AMP THE SPEAKER NEEDS TO BE AT LEAST 12 INCHES FROM THE AMP, AND SPEAK SLOWLY AND CLEARLY; TWO PEOPLE TO LOWER A HATCH; SET CVHD BOUNDARIES WITHIN ALL FIRE BOUNDARIES; DOG HATCHES PROPERLY.

8. Repair party will be debriefed on the mess deck after the DCTT debrief, which will be conducted following the drill in the wardroom.

DCTT/ Assignments:

DCTT Leader (DCC)	LCDR	(Q)
DCO	LT	(U/I)
CCS	MSI	(Q) (U/I)
OOD	QM1	(Q)
Repair 2 Leader/lkr./SCBA sta.	DC1	(Q)
Repair 2 Scene	DC1	(Q)
Repair 2 Invest	SKC	(U/I)
Repair 2	GMC	(Q)
Repair 2	PNC	(U/I)
Repair 3 Leader/locker	HT1	(Q)
Repair 3 Scene	HT1	(Q)
Repair 3 Invest	SH1	(Q)
Repair 3	EMC	(U/I)
Repair 3 SCBA STA.	ENC	(Q)
Repair 5 Leader/locker	STGC	(Q)
Repair 5 Rover	HCMC	(U/I)
Repair 5 Scene	GSCS	(Q)
Repair 5 Invest	IS1	(Q)
Repair 5	GSEC	(U/I)
Repair 5	MA1	(Q)
Medical	HMC	(Q)
Medical	HN	(U/I)

10. SAFETY: (ORM Tenet: Assess risks vs benefits) DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY ISSUE DOES OCCUR, THE DCTT MEMBER WILL "FREEZE THE DRILL" AND NOTIFY THE DCTT LEADER OF THE SITUATION. ONCE THE SAFETY ISSUE OR PROBLEM HAS BEEN CORRECTED, ALL DCTT MEMBERS WILL BE NOTIFIED TO CONTINUE THE DRILL. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE DCTT LEADER OF THE SITUATION. ONLY IF PERSONNEL ARE INCORRECTLY HANDLING THE CASUALTY WILL DCTT ASSIST. IF THE PERSONNEL INVOLVED ARE CORRECTLY RESTORING THE CASUALTY DCTT WILL EVALUATE THEIR ACTIONS. THE DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

11. (ORM Tenet: ID Hazards) Safety walk through will be conducted prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill. Notify DCCT Leader when complete.

12. DCTT Communications: WICS CHANNEL ITT1

SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. -No charged hoses inside electrical or electronic spaces.
- B. -Hatch pins must be in place prior to transiting hatch coaming.
- C. -Only one man on a ladder at a time, (when dressed in FFE.)
- D. -Do not leave CO2, AFFF or PKP bottles upright, untended or unstowed.
- E. -Required minimum personnel on charged hoses: 1 1/2 in. - 3 persons, 2 1/2 in. - 5 persons.
- F. -Hearing protection must be worn by all personnel within 10 ft of an operating Ram fan.
- G. -Heat stress causalities will be handled immediately. Monitor for heat stress continually. If a heat stress condition occurs, remove person to cool area and inform CCS.
- H. -Charge fire hoses to the nozzle and DCTT will shut the plug valve.
- I. -No running, or straddling hoses.
- J. -Smoke from smoke machine will be only as thick to conduct a safe training atmosphere (DCTT discretion).
- K. -4 Stretcher Bearers per stretcher when transporting casualty.

14. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

- A. -Activation or energizing of firefighting equipment.
- B. -Smoke & fire symptoms.
- C. -Electrical isolation.
- D. -Overhaul of space.
- E. -Breaking of Draeger tubes.
- F. -Relaxing of FFEs and SCBA facepieces once Battle dress SAT, as briefed.
- G. -Food service personnel will continue meal prep if required.
- H. -Dewatering procedures.
- I. -Cutting locks on spaces containing fire boundaries.
- J. -Fuses from fuse panels will not be pulled unless actual emergency.
- K. -Only rake brought to the scene for overhaul.
- L. -Charged hoses will be bun-gee corded by DCTT(actual casualty removed).
- M. -Activation of SCBAs and EEBDs as briefed.
- N. -No cutting of shoring or wedges except as briefed.
- O. -First Aid Supplies.

15. DCTT PROP LIST:

- [ ]A. -SMOKE - Machine (Rep5 & 3 will use white rags)
- [ ]B. -FIRE - Red /White Rags
- [ ]C. -H/J - BUBBLE RAP
- [ ]D. -R - Plastic prop w/rag streamers and water spray
- [ ]E. -C - Strobe light
- [ ]F. -Medical Moulage
- [ ]G. -C/D - Picture
- [ ]H. -H Cardboard (LARGE) / Plastic (SMALL)
- I. -PFL - Stick w/rag
- J. -C - Strobe light
- K. -/\/\ - Metal plate
- L. -Sagging Overhead - White Sheet

M. -Buckling Bulkhead - plastic prop.

16. TIME LINE: EVENT (All times are approximate)

T= 0730-0800 DCTT safety walk thru  
T= -01 Plane Approach  
T= .0 GENERAL QUARTERS  
T= +7 Zebra Checks  
T= +15 missile hit Fwd and Aft.

- a. -Hit Alpha / Hit Bravo  
REP 3
- b. -A Crew Training Room
- c. -S Crew Training Room
- d. -A Berthing #7
- e. -S Berthing #7
- f. -H fr. 366 (Bulkhead)
- g. -H fr. 366 (Deck)  
REP 5
- h. -C Log Rm.
- i. -A Log Rm.
- j. -S Log Rm.
- k. -P RLL (fracture jaw/leg)
- l. -R AFFF  
REP 2
- m. -A Berthing #1
- n. -S Berthing #1
- o. -A berthing #2
- p. -S Berthing #2
- q. -H fr. 100 (Bulkhead)
- r. -H fr. 100 (Deck)

T= +35

- Rep 2
- a. -P Access Person  
(burn/amputation of hand)

T= +75 Debrief on station.

T= +80 Set yoke restow all gear.

T= +90 Secure from GQ.

**OPERATIONAL RISK MANAGEMENT**

- IDENTIFY HAZARDS
- ASSESS THE RISKS vs BENIFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

USS COLE DDG-67

BATTLE DAMAGE

DATE \_\_\_\_\_

REPAIR 2	REPAIR 3	REPAIR 5
MISSILE	MISSILE	NEAR-MISS
<u>A</u> COMPT. # 2-78-01-L Berthing #1	<u>A</u> COMPT. # 2-350-2-L Training Room	<u>C</u> COMPT. # 1-258-3-Q Log Room
<u>A</u> COMPT. # 3-97-02-L Berthing #2	<u>A</u> COMPT. # 3-338-2-L Berthing 7	<u>H/J</u> FITTING # COMPT. #
<u>H</u> SIZE 3 FT COMPT. # 2-78-01-L FRAME 110	<u>H</u> SIZE 2 FT COMPT. # 2-350-2-L FRAME 250	<u>A</u> COMPT. # 1-258-3-Q <u>C</u> WILL SPREADS TO AN <u>A</u>
<u>H</u> SIZE 3 FT COMPT. # 3-97-02-L FRAME 110	<u>H</u> SIZE 2 FT COMPT. # 3-338-2-L FRAME 250	<u>R</u> SYSTEM LOST AFFF COMP. # 1-174-01-L FRAME 180 (Port) COV 1-156-1, 1-195-1
<u>S</u> COLOR White COMPT. # 2-78-01-L Berthing #1	<u>S</u> COLOR White COMPT. # 2-350-2-L Training Room	
<u>JR</u> White COMPT. # 3-97-02-L Berthing #2	<u>S</u> COLOR White COMPT. # 3-338-2-L Berthing 7	<u>S</u> COLOR BLUE/WHITE COMPT. # 1-258-3-Q
<u>P</u> Access Person COMPT.# 2-78-01-L Fan Room Hand Amputation / Burn	<u>P</u>	<u>P</u> Locker Leader COMPT.# 1-174-01-L passage Compound Fracture (L/Leg
<u>FB</u> S 78 P 62 P 126 S 174	<u>FB</u> S 300 P 338 P 350 S 370	<u>FB</u> S 220 P 254 P 300 S 338
PROPS / REMARKS SAG - Plastic SMOKE - Machine FIRE - Rag HOLE - Plastic R/PIPE - Plastic C/D - Picture	PROPS / REMARKS PANT - Plastic SMOKE - machine FIRE - Rag HOLE - Plastic R/PIPE - Plastic C/D - Picture	PROPS / REMARKS Fire - Rags Smoke - Rags H/J - Bubble Wrap
DCTT	DCTT	DCTT
As Noted on Brief	As Noted on Brief	As Noted on Brief

EVOLUTION EVALUATION FORM

ROUTING  
ITT LEADER \_\_\_\_\_  
TEAM LEADER \_\_\_\_\_  
EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT

DATE: \_\_\_\_\_

EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_

WATCHSTATION/ WATCHSTANDER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

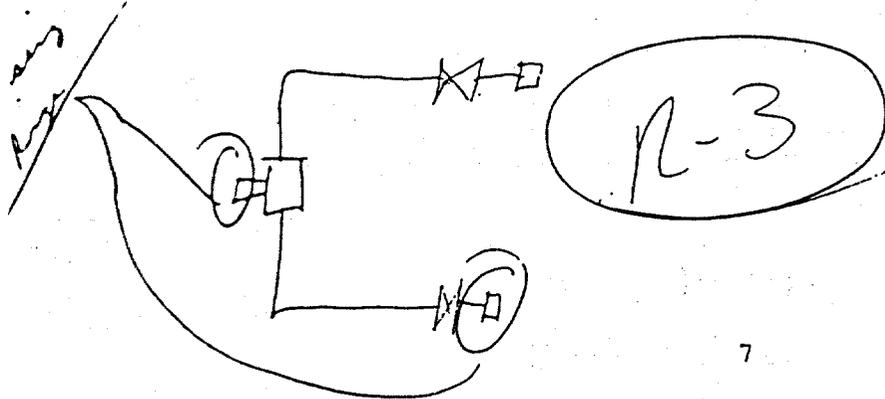
2. OTHER PROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

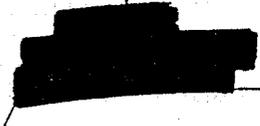
COMMUNICATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

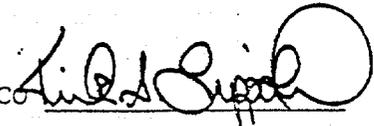
4. MATERIAL: A-3 Race's - Longing HOSE, missing O-rings, (C/Having to  
pull out & change it out

5. TRAINING TEAM DEFICIENCIES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. RECOMMENDATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



DCTT LDR: 

Approved: 

Date: 20 Aug 00

USS COLE (DDG 67)  
DCTT BRIEF

1. GENERAL DESCRIPTION: ITT/DCTT brief. During normal underway operations, an Air warfare operation drives the ship to General Quarters; 2 missiles hits, 1 hit mid frame 310 and 1 hit Fwd frame 110, to the port side.

2. OBJECTIVE: Evaluation exercise for the crew in the use of damage control procedures.

3. Mode of training: Evaluation/training if needed. General Quarters. (ORM Tenet: Supervise)

4. The training period will be between TBD.

5. FXP-4 Drill to be conducted during this training period:

MOB-D-3-SF	Manning battle stations
MOB-D-11-SF	Setting material condition (Zebra)
MOB-D-23-SF	Locating damage control fittings
MOB-D-8-SF	Major Conflagration
FSO-M-3-SF	Compound Fracture
FSO-M-7-SF	Broken Jaw

6. Degraded Equipment: WIFCOM unreliable.

7. LESSONS LEARNED LAST DRILL: EVERYONE NEEDS TO HAVE ON THE PROPER BATTLEDRESS; EMERGENCY AIDE INJURED UNTIL MEDICAL HELP ARRIVES; EXPIDITE INSPECTION OF SURROUNDING SPACES AND REPORT; TWO PEOPLE TO LOWER A HATCH; SET OVHD BOUNDARIES WITHIN ALL FIRE BOUNDARIES; DOG HATCHES PROPERLY.

8. Repair party will be debriefed on the mess deck after the DCTT debrief, which will be conducted following the drill in the wardroom.

9. DCTT/ Assignments:

DCTT Leader (DCC)	LCDR	(Q)
DCO	LT	(Q)
ROVER	GSMC	(Q)
CCS	MS1	(Q) (U/I)
OOD	QM1	(Q)
Repair 2 Leader/lkr./SCBA sta.	DC1	(Q)
Repair 2 Scene	DC1	(Q)
Repair 2 Invest	SKC	(U/I)
Repair 2	GMC	(Q)
Repair 2	PNC	(U/I)
Repair 3 Leader/locker	HT1	(Q)
Repair 3 Scene	HMC	(Q)
Repair 3 Invest	SH1	(Q)
Repair 3	EMC	(U/I)
Repair 3 SCBA STA.	ENC	(Q)
Repair 5 Leader/locker	STGCM	(Q)
Repair 5 Scene	GSCS	(Q)
Repair 5 Invest	MA1	(Q)
Repair 5	GSEC	(U/I)
Medical	HMC	(Q)
Medical	HN	(U/I)

*Journal*

10. SAFETY: (ORM Tenet: Assess risks vs benefits) DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE DCTT MEMBER WILL "FREEZE THE DRILL" AND NOTIFY THE DCTT LEADER OF THE SITUATION. ONCE THE SAFETY ISSUE OR PROBLEM HAS BEEN CORRECTED, DCTT MEMBERS WILL BE NOTIFIED TO CONTINUE THE DRILL. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE DCTT LEADER OF THE SITUATION. ONLY IF PERSONNEL ARE INCORRECTLY HANDLING THE CASUALTY WILL DCTT ASSIST. IF THE PERSONNEL INVOLVED ARE CORRECTLY RESTORING THE CASUALTY DCTT WILL EVALUATE THEIR ACTIONS. THE DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

11. (ORM Tenet: ID Hazards) Safety walk through will be conducted prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill. Notify DCCT Leader when complete.

12. DCTT Communications: WICS CHANNEL

ITT2

*With DCTT*

*Report Back*

13. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- 1. No charged hoses inside electrical or electronic spaces.
- 3. -Hatch pins must be in place prior to transiting hatch coaming.
- c. -Only one man on a ladder at a time, (when dressed in FFE.)
- D. -Do not leave CO2, AFFF or PKP bottles upright, untended or unstowed.
- E. -Required minimum personnel on charged hoses: 1 1/2 in. - 3 persons, 2 1/2 in. - 5 persons.
- F. -Hearing protection must be worn by all personnel within 10 ft of an operating Ram fan.
- G. -Heat stress casualties will be handled immediately. Monitor for heat stress continually. If a heat stress condition occurs, remove person to cool area and inform CCS.
- H. -Charge fire hoses to the nozzle and DCTT will shut the plug valve.
- I. -No running, or straddling hoses.
- J. -Smoke from smoke machine will be only as thick to conduct a safe training atmosphere (DCTT discretion).
- K. -4 Stretcher Bearers per stretcher when transporting casualty.

14. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

- A. -Activation or energizing of firefighting equipment.
- B. -Smoke & fire symptoms.
- C. -Electrical isolation.
- D. -Overhaul of space.
- E. -Breaking of Draeger tubes.
- F. -Relaxing of FFEs and SCBA facepieces once Battle dress SAT, as briefed.
- G. -Food service personnel will continue meal prep if required.
- . -Dewatering procedures.
- . -Cutting locks on spaces containing fire boundaries.
- . -Fuses from fuse panels will not be pulled unless actual emergency.
- K. -Only rake brought to the scene for overhaul.
- L. -Charged hoses will be bun-gee corded by DCTT (actual casualty removed).
- M. -Activation of SCBAs and EEBDs as briefed.
- N. -No cutting of shoring or wedges except as briefed.
- O. -First Aid Supplies.

15. DCTT PROP LIST:

- A. -SMOKE - Machine
- B. -FIRE - Red /White Rags
- C. -H/J - BUBBLE RAP
- D. -R - Plastic prop w/rag streamers and water spray
- E. -C - Strobe light
- F. -Medical Moulage
- G. -C/D - Picture
- H. -H Cardboard (LARGE) / Plastic (SMALL)
- I. -PFL - Stick w/rag
- J. -C - Strobe light
- K. -/\\//\ - Metal plate
- L. -Sagging Overhead - White Sheet
- M. -Buckling Bulkhead - plastic prop.

6. TIME LINE: EVENT (All times are approximate)

T= 0800-0830 DCTT safety walk thru

T= -01 Plane Approach

T= 0 GENERAL QUARTERS

T= +7 Zebra Checks

T= +15 missile hit Fwd and Aft.

*high safety*

*O-rings for SCBA recharging stations*

*T, 5 2w idint*

*Electrical  
shock in  
CIC*

- a. -Hit Alpha / Hit Bravo  
REP 3
- b. -A Berthing #3
- c. -S Berthing #3
- d. -A Berthing #5
- e. -S Berthing #5
- f. -H fr. 310 (Bulkhead)
- g. -H fr. 320 (Deck)
- REP 2
- m. -FL Berthing #1
- n. -PFL Berthing #2
- o. -H fr. 110 (Bulkhead)
- p. -H fr. 110 (Deck)

T= +35

T= +75 Debrief on station.

T= +80 Set yoke restow all gear.

T= +90 Secure from GQ.

- Rep 3
- a. -P Access Person  
(Compound fracture/broken jaw)

*Rep 5 split / help  
reman occurs  
342*

*Smoke penetrates*

OPERATIONAL RISK MANAGEMENT

- IDENTIFY HAZARDS
- ASSESS THE RISKS vs BENIFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

U/ COLE DDG-67

BATTLE DAMAGE

DATE

*deleter transfer*

REPAIR 2	REPAIR 3	REPAIR 5
MISSILE	MISSILE	
FL COMPT. # 2-78-1-L Berthing #1	A COMPT. # 2-300-1-L Berthing #3	
RFL COMPT. # 3-97-2-L Berthing #2	A COMPT. # 3-310-2-L Berthing #5	
H SIZE 3 FT COMPT. # 2-78-1-L FRAME 110	H SIZE 2 FT COMPT. # 2-300-1-L FRAME 310	
H SIZE 3 FT COMPT. # 3-97-2-L FRAME 110	H SIZE 2 FT COMPT. # 3-310-2-L FRAME 320	
	S COLOR White COMPT. # 2-300-1-L Berthing #3	
	S COLOR White COMPT. # 3-310-2-L Berthing #5	
	P Access Person COMPT # 2-300-1-L Repair 3 Compound Fracture/Broke Jaw	
FLB SF 50 PF 78 PA 126 SA 174	FB SF 254 PF 300 PA 338 SA 370	
PROPS / REMARKS HOLE - Plastic C/D - Picture FL- Green Rags FLLVL- Stick	PROPS / REMARKS SMOKE □ Machine FIRE □ Rag HOLE □ Plastic C/D □ Picture	
DCTT	DCTT	DCTT
As Noted on Brief	As Noted on Brief	As Noted on Brief

EVC TION EVALUATION FORM

ROUTING

ITT LEADER \_\_\_\_\_  
TEAM LEADER \_\_\_\_\_  
EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT

DATE: \_\_\_\_\_

EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_

WATCHSTATION/ WATCHSTANDER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_

2. OTHER PROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_

3. COMMUNICATIONS: \_\_\_\_\_

4. MATERIAL: \_\_\_\_\_

5. TRAINING TEAM DEFICIENCIES: \_\_\_\_\_

6. RECOMMENDATIONS: \_\_\_\_\_

DCO

DCTT LDR:

Approved: CO

*Kirk D. [Signature]*

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

Compt 4-254-0-E Noun Name MER 2 Date: 18 AUG 00

1. GENERAL DESCRIPTION: During normal underway operations, a flammable liquid leak/spray is discovered in NR 2 Main Engine Room, resulting in a major class "B" fire. The EOOW directs space isolation and initial fire fighting efforts. The ERO/PSM/ARO attempt to combat the fire. The fire is declared out of control and the space is evacuated. Primary HALON is activated which is evaluated as good/bad. If bad, Scene Leader activates reserve HALON which is evaluated as good/bad. The fire party must/does not need to enter the space to combat the fire.

2. OBJECTIVE: Training/Evaluation. General Quarters. (ORM Tenet: Supervise)

3. FXP-4 Drill to be conducted during this training period:

- MOB-D-3-SF                   Manning Battle Stations
- MOB-D-9-SF                   Main Space Fire Drill
- MOB-D-11-SF                 Setting Material Condition (Yoke and Zebra)
- MOB-D-23-SF                 Locating DC Fittings

The training period will be between TBD.

5. LESSONS LEARNED LAST DRILL: Desmoking IAW MSFD. Use standard phraseology during communications. Plugman needs to bring AFFF to the scene. Flake fire hoses properly prior to charging. Establish fire boundaries.

6 Lockers will be debriefed at Repair lockers after the DCTT debrief. DCTT debrief will be conducted following the drill in the Wardroom.

7. DCTT/ETT Assignments:

DCCT Leader (DCC)	LCDR	(Q)
DCC	MS1	(Q) (U/I)
OOD	QM1	(Q)
Scene Leader	DC1	(Q)
#1 Hose	GMC	(Q)
#2 Hose	SKC	(Q)
In Space #1	GSMC	(Q)
	DC1	(Q)
In Space #2	SH1	(Q)
	GSEC	(U/I)
Investigators	IS1	(Q)
	FCC	(U/I) → must be w/side?
Boundrymen	STGC	(Q)
Electrical Isolation	EMC	(Q)
Mechanical Isolation	HT1	(Q)
BACS	ENC	(Q)
AFFF Operator	PNC	(Q)
Medical	HMC	(Q)

ETT Leader  
SPACE ETT

LT [REDACTED]  
GSCS [REDACTED]

(Q)  
(Q)

8. SAFETY: (ORM Tenet: Assess risks vs benefits) ETT/DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE ETT/DCTT MEMBER WILL CORRECT THE SAFETY VIOLATION AND NOTIFY THE ETT/DCTT LEADER OF THE SITUATION. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, ETT/DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE ETT/DCTT LEADER OF THE SITUATION. ETT/DCTT WILL ALLOW WATCH STANDERS TO HANDLE THE ACTUAL CASUALTY. IN THE EVENT WATCH STANDERS DO NOT HANDLE THE ACTUAL CASUALTY, THE ETT/DCTT WILL STEP IN AND TAKE CORRECTIVE ACTION. THE ETT/DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

9. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. Observe personnel dressed out in fire fighting ensembles for signs of heat stress.
- B. Ensure hoses are charged and then secured at the plug and that electrical equipment is not hosed down.
- C. Ensure SCBA cylinders are properly secured when not in use.
- D. No running.
- E. No straddling of hoses.
- F. Two or more people lifting/lowering water tight hatches.
- G. No leaving CO2 or PKP bottles upright untended or unstowed.
- H. No overriding or bypassing safety interlocks.
- I. No loose deck plates, which must have at least two bolts per deck plate.
- J. Ensure personnel wear proper hearing protection.
- K. Ensure personnel remain clear of rotating shafts or machinery.
- L. Do not work on live (energized) electrical equipment without the Commanding Officer's permission and only per NSTM 300.

10. (ORM Tenet: ID Hazards) Safety walk through has been/will be conducted immediately prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill.

11. Heat stress survey to be conducted prior to commencement of drill.

Follow on survey due: \_\_\_\_\_.

12. DCTT Communications: WICS channel ITT1.

## PART I: ETT

SCENARIO: A major fuel leak develops in MER 2 LL (4-254-0-E), AFT/Centerline at the #2X Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge cage cutout valve. The leak may be isolated locally in MER 2 LL by securing #2A/F/O service pump locally or remotely. After the response team has demonstrated the proper initial actions in flushing and covering the fire hazard, DCTT will flash into a fire. The ignition source will be the #2A<sup>B</sup>/F/O Service Pump motor.

Method of Imposing Casualty: ETT will initiate drill by giving F/O smell to watch standers.



PLANT STATUS

PLANT READINESS (MODE)	FULL	SPLIT	TRAIL	AUX	COLD	IRON
GAS TURBINE ENGINES	(1A)	1B	2A	(2B)		
GAS TURBINE GENERATORS	(1)	(2)	3	// (SPLIT)	PLANT	PARALLEL
A/C PLANTS	(1)	2	3	(4)		
L/O SERVICE PUMPS	1A	(1B)	2A	(2B)		
F/O SERVICE PUMPS	1A	(1B)	2A	(2B)		
SEAWATER SERVICE PUMPS	1	(2)	3	(4)	(5)	
FIRE PUMPS	1	(2)	3	4	(5)	6
L/O PURIFIERS	(1)	(2)				
F/O PURIFIERS/XFR PUMPS	1	2				
HPAC/HPAD'S	(#1)	(AUTO / MANUAL)			#2	(AUTO / MANUAL)
PAC'S		(#1)	(115 / 120 / 125)	(125)		
		(#2)	(115 // 120 / 125)			
		(#3)	(115) / 120 / 125)			
LPAD'S	1	(2)	3	4		
F/O SERVICE TANK ON SUCTION	(1A)	1B	2A	(2B)		

OOC EQUIPMENT: NONE

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ADDITIONAL COMMENTS: \_\_\_\_\_

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## PART II: DCTT

### SEQUENCE OF EVENTS:

1. SPACE ETT/DCTT will disclose that the fire is increasing in intensity. The fire will continue to grow to the point that it is out of control and evacuation is necessary.

Method of Imposing: ADVANCE ON WATCHSTANDERS WITH RED AND BLACK RAGS.

2. Upon evacuating the space, watch stander will demonstrate SEED (by reaching for it and shouting out "activating SEED") and don a(n) training EEBD.

NOTE: MECHANICAL ISOLATION DCTT and ELECTRICAL ISOLATION DCTT will check for mechanical and electrical isolation of systems in the space. DCA/Scene Leader will make the decision to electrically isolate space lighting based on space conditions and if HALON bad scenario develops because of watch standers' actions.

Method of Imposition: As Found.

If HALON bad, Team leader/investigators will see sparks from strobe light. After electrical isolation has been verified by IN SPACE DCTT, Electrical Isolation DCTT will restore lighting to the space.

Electrical isolation will be complete with the following exceptions:

#2 SCU	2A/2B IECs	#2 GTG LOCOP
#2 NBPS	IVCS jack boxes/phones	LMC and LMC lighting
WOT (5-220-1-F) TLI2A/2GTG Blow in door heater		Halon indicators

NOTE: After watch standers evacuate the space, ETT/DCTT will check that the following actions are being completed:

- A. Securing of hatch to the space (setting Zebra).
- B. Pulling of emergency trips.
- C. Accounting for evacuees.
- D. Activation of bilge sprinkling.
- E. HALON activated, insure discharge, open bypass if necessary.

NOTE: DCTT will check that watch standers report to CCS.

3. Halon activation/ventilation trip will be disclosed by OSL DCTT manually by operating the sensor when a watch stander activates the system.

Method of Imposing: ACTIVATION OF CO2 BOTTLE PROP. DCTT LIFTING OF PNEUMATIC SWITCHES.

NOTE: HALON may be activated from either the affected space or from the DC Deck. In the event that it is activated from the space, the IN SPACE DCTT will prevent the watch stander from ACTUALLY charging the system and will report to the OSL DCTT so that he can activate alarms.

NOTE: IN SPACE DCTT will check for in space alarm activation (lights, horn) and ventilation shut-down. DCC DCTT check activation and vent shut-down alarms in CCS.

4. Primary HALON activation/discharge will be: (choose)

4. Primary HALON activation/discharge will be: (choose)

- XXX A. GOOD provided watch stander actions are correct (DC deck access closed and dogged down; all module doors and other fittings open to outside atmosphere are closed). This will be disclosed with a white disk held in view port. Fire party will wait for a minimum 15 minute soak time and then reenter space. If watch stander actions are incorrect, then indicate HALON BAD.
- B. BAD is indicated with a black disk by DCTT (this will require Reserve HALON to be activated when determined by OSL). DCTT will disclose to OSL that primary HALON failed due to a ruptured pipe downstream of the time delay. Additionally, if HALON is BAD, no indication of HALON release will be seen on DC Console and outside the affected space after 60 seconds. If reserve HALON is GOOD as disclosed by DCTT, then a white disk will be displayed. Fire Party will wait for a minimum 15 minute soak time and then reenter space.
- C. BAD as indicated with a black disk by DCTT. When determined by OSL, reserve HALON will be activated but will be disclosed by DCTT as BAD with no indication on DC Console or on bulkhead outside the affected space after 60 seconds. Fire party will then enter the space.

Method of Imposing for (BAD): Primary Halon--No lifting of pneumatic switches (bad CO2 Bottle). Reserve Halon--Lifting pneumatic switches but no discharge switch (bad time delay). If watch stander attempts to open bypass valve DCTT will give valve handle to watch stander (broken valve).

NOTE: (GOOD scenario only) If personnel fail to activate HALON or close up the space properly as determined by the DCTT, then HALON will be BAD (DCTT props will change accordingly). The fire party shall enter the space and fight the fire. They should demonstrate their ability in hose handling, team coordination, communication, knowledge of major equipment location, and overhauling the fire.

5. When BOUNDARY DCTT is satisfied with the level of knowledge and proficiency of the fire boundary setters, he will disclose boundaries are hot for bad scenario cool for good.

Method of Imposing: (Bad) Gray BUBBLE WRAP / (Good) as found

6. One investigator will transit down the escape trunk to investigate the status of HALON. The other investigator will remain on the DC Deck. They will report conditions as found to the Scene Leader and Repair Party Leader. Once the smoke and fire boundaries, OOD, Scene Leader and investigators have reported conditions of the fire, the DCA shall make the call that HALON is GOOD/BAD.

Method of Imposing: (BAD) Black disk in view port/ hot boundaries/ black smoke from vents--OOD/ hot door--Scene Leader/ strobe light in L/L view port  
(GOOD) white disk in view port

7. Scene Leader energizes bilge sprinkling for an additional 2 minutes. At the conclusion of the 2 minute period, the Scene Leader will secure the bilge sprinkling system.

- . #1 HOSE DCTT will prevent #1 plug man from activating AFFF hose reel.
9. #2 HOSE DCTT will remove Inline Eductor hose from AFFF can before charging the hose and secure #2 hose at the FIRE PLUG AFTER #2 HOSE has been charged.
10. SCBA control will be maintained by the DCTT at the SCENE. all Personnel who will actually activate an SCBA.
11. When the team tests the agent, On Scene DCTT will disclose agent check. SAT.

Method of Imposing: AFFF - ZIP LOCK BAG WITH WHITE STYROFOAM PEANUTS.

12. When access man checks hatch for heat, On Scene DCTT will disclose a HOT hatch for bad scenario or cool for good.

Method of Imposing: (BAD) GRAY BUBBLE WRAP/ (GOOD) AS FOUND

13. As the fire party enters the space IN SPACE DCTT will disclose smoke is in the space.

Method of Imposing: Smoke generator

14. When all readily visible flames have disappeared, the team leader will declare "Fire Out, Re-flash Watch Set".

Method of Imposing: RED AND BLACK RAGS BEHIND THE BACK.

5. As the team leader investigates the space for Hot Spots/Hang Fires using ne NFTI, IN SPACE DCTT will disclose 1 Hot Spot(s)/Hang Fire(s).

Method of Imposing: canteen with hot water.

16. When Team Leader checks bilge for AFFF coverage. IN SPACE DCCT discloses there is a vapor lock on all bilge surfaces.

Method of Imposing: White sheet laying in bilge

17. When overhaul gear and second hose team enters the space and reaches lower level, the IN SPACE DCTT will disclose the fire is overhauled.

Method of Imposing: Team Leader will instruct hose teams how overhaul will be conducted in space. Overhaul will be complete when all bilge surfaces are vapor secured.

18. DCA orders desmoking procedures for the affected space, IN SPACE DCTT will determine Fire Team's knowledge of desmoking procedures as space is desmoked.

Method of Imposing: DESMOKING OF SPACE USING POSITIVE VENTILATION.

19. Gas Free Petty Officer will calibrate the atmospheric test gear on main deck. He will be questioned by DCTT regarding knowledge of equipment and procedures.

20. Once desmoking is complete, DCTT will stop drill and debrief on station.

## SYMPTOMS

### A. LEAK:

- (1) High bilge level alarm.
- (2) Low tank level alarm.
- (3) Smell of fuel/lube oil in space.
- (4) Flammable liquid in bilge.
- (5) Faulty flange/piping/flex hose/mechanical seal.

### B. FIRE:

- (1) Smoke and flames in space.
- (2) Smoke and fire alarms.
- (3) Hot Hatch, Hot Bulkhead.

## 22. CAUSES

- A. Major lube oil leak.
- B. Major fuel oil leak.
- C. Electrical fire.

## 23. AUTHORIZED DISCLOSURES:

1. -Lifting of sensor alarms to indicate flooding.
2. -Opening of F/O Unloader By-pass Vlv for loss of F/O pressure.
3. -Spray bottle with yellow rag indicating Fuel Oil/Lube Oil leak.
4. -Yellow rag on deck indicating Fuel Oil/Lube Oil on deck.
5. -Fire out of control: Waving red rag vigorously over head.
6. -Fire contained: Rags waved at waist level.
7. -Fire out: Rags placed behind back.
8. -Halon flooding indications: Activation of appropriate pressure switches.
9. -Dropping AFFF tank level: Using magnet/tape on sight glass.
10. -Hot bulkhead or door disclosed by placing bubble wrap on bulkhead or Door.
11. -Rags placed in bilge for hazard being flushed to bilge.
12. -Alarm indications in CCS.
13. -Halon good indication: No disk/white disk placed at portholes.
14. -Halon bad indication: Black disk placed at portholes.
15. -Zip lock bag with purple rag indicates PKP test satisfactory.
16. -Zip lock bag with white styrofoam peanuts on deck for AFFF hose test.
17. -Tap on PKP bottle for empty bottle.
18. -Apply stickies with handwritten notes to disclose various parameters to CCS/EDO.
19. -Apply strip of masking tape to locks simulated cut.
20. -Desmoking complete, (no actual smoke) removal of black rags on hanger.
21. -AFFF fake activator buttons over actual button covers.
22. -Halon 5LB co2 bottle prop.

23. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

1. -Activation or energizing firefighting equipment as briefed.
2. -Lightoff of SCBAs and EEBDs except as briefed.
3. -Maneuvering the ship to minimize smoke re-ingestion.
4. -Smoke observations by the OOD
5. -Halon 15 min. soak time.
6. -Fuel Oil/Lube Oil leak..
7. -Liquid in bilge.
8. -Smoke & fire symptoms.
9. -Electrical & mechanical isolation as briefed.
10. -Rake will be only overhaul gear item taken into space.
11. -Overhaul of space.
12. -Starting and stopping of engineering equipment, except as authorized by ETT/DCTT.
13. -Breaking of Draeger tubes.
14. -Open Repair Lockers 2, 3, and 5 prior to drill.
15. -Relaxing of FFEs and SCBA facepieces once Battle dress sat as briefed.
16. -Food service personnel will continue meal prep if required.
17. -Dewatering procedures.
18. -Cutting locks on spaces containing fire boundaries.
19. -Bolt cutters will be taped over during drill.
20. -Charging hoses as briefed.
21. -Charged hoses will be closed by taped/bungee cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS starting standby GTG.
24. -CCS watch isolation of EPCC Fuses as briefed.
25. -Muster non-duty section personnel.
26. -Fuses from fuse panels will not be pulled unless actual emergency.  
A tag will be hung indicating fuse was pulled.

OPERATIONAL RISK MANAGEMENT  
- IDENTIFY HAZARDS  
- ASSESS THE RISKS vs BENIFITS  
- EVALUATE CONTROL OPTIONS  
- SUPERVISE

EVOLUTION EVALUATION FORM

ROUTING  
ITT LEADER \_\_\_\_\_  
TEAM LEADER \_\_\_\_\_  
EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT \_\_\_\_\_  
EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_  
WATCHSTATION/ WATCHSTANDER \_\_\_\_\_  
EVALUATOR \_\_\_\_\_  
WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

DATE: \_\_\_\_\_

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_

2. OTHER PROCEDURAL DEFICIENCIES NOTED: lost track of ATFF  
o Evacuation routing o still running in space  
o Evacuation of rep 5

3. COMMUNICATIONS: 204 Speak louder on IMC  
Annul from fuel leader to Rep 2  
Speak louder

MATERIAL: water to Rep 3  
- C. plus ground on 2 sur 30

5. TRAINING TEAM DEFICIENCIES: > Checklists

6. RECOMMENDATIONS: > Recommendations to main isolation

> No repair tubes evacuating into Haler bar  
> UX Checklists more efficiently

> Annul Rep 2, host team  
via Rep 3

> Battery safety thing - need isolation?  
- still no confirmation of ATFF any?

1341 - GQ

1342 - Class B

- (L) B too out of control

- Rep 5 to Rep 2?

1343 - Main activity

- SCBA checkouts  
on flight deck

1350 Main effect } -> IMC  
                          -> H4 rep. / other 10

DCO

DCTT LDR

Approved: CO

*Handwritten signature: Keith L. Supper*

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

Compt 4-174-0-E Noun Name MER 1 Date: 29 APR 01

*Handwritten notes:*  
17  
35  
with  
need  
to  
know

1. GENERAL DESCRIPTION: During normal underway operations, a flammable liquid leak/spray is discovered in NR 1 Main Engine Room, resulting in a major class "B" fire. The EOOW directs space isolation and initial fire fighting efforts. The ERO/PSM/ARO attempt to combat the fire. The fire is declared out of control and the space is evacuated. Primary HALON is activated which is evaluated as good/bad. If bad, Scene Leader activates reserve HALON which is evaluated as good/bad. The fire party must/does not need to enter the space to combat the fire.

2. OBJECTIVE: Training/Evaluation General Quarters. (ORM Tenet: Supervise)

3. FXP-4 Drill to be conducted during this training period:

- MOB-D-3-SF           Manning Battle Stations
- MOB-D-9-SF           Main Space Fire Drill
- MOB-D-11-SF          Setting Material Condition (Yoke and Zebra)
- MOB-D-23-SF          Locating DC Fittings

The training period will be between TBD.

LESSONS LEARNED LAST DRILL: OSL needs to know space layout and establish choke points. Ensure investigators correctly identify halon on release panel. Quickly and correctly establish fire boundaries and report.

6 Lockers will be debriefed at Repair lockers after the DCTT debrief. DCTT debrief will be conducted following the drill in the Wardroom.

7. DCTT/ETT Assignments:

- |                      |       |     |
|----------------------|-------|-----|
| DCCT Leader (DCC)    | LCDR  | (Q) |
| DCC                  | MS1   | (Q) |
| Rover                | GSMC  | (Q) |
| OOD                  | QMC   | (Q) |
| Scene Leader         | DC1   | (Q) |
| Locker Leader        | HMCM  | (Q) |
| #1 Hose              | GMC   | (Q) |
| #2 Hose              | SKC   | (Q) |
| In Space #1          | DC1   | (Q) |
| In Space #2          | SHC   | (Q) |
| Investigators        | MA1   | (Q) |
| Boundrymen           | STGCM | (Q) |
|                      | ENC   | (Q) |
| Electrical Isolation | EMC   | (Q) |
| Mechanical Isolation | HT1   | (Q) |
| AFFF Operator        | PNC   | (Q) |
| Medical              | HMC   | (Q) |
| ETT Leader           | LT    | (Q) |
| SPACE ETT            | GSCS  | (Q) |

SAFETY: (ORM Tenet: Assess risks vs benefits) ETT/DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE ETT/DCTT MEMBER WILL CORRECT THE SAFETY VIOLATION AND NOTIFY THE ETT/DCTT LEADER OF THE SITUATION. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, ETT/DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE ETT/DCTT LEADER OF THE SITUATION. ETT/DCTT WILL ALLOW WATCH STANDERS TO HANDLE THE ACTUAL CASUALTY. IN THE EVENT WATCH STANDERS DO NOT HANDLE THE ACTUAL CASUALTY, THE ETT/DCTT WILL STEP IN AND TAKE CORRECTIVE ACTION. THE ETT/DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

9. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. Observe personnel dressed out in fire fighting ensembles for signs of heat stress.
- B. Ensure hoses are charged and then secured at the plug and that electrical equipment is not hosed down.
- C. Ensure SCBA cylinders are properly secured when not in use.
- D. No running.
- E. No straddling of hoses.
- F. Two or more people lifting/lowering water tight hatches.
- G. No leaving CO2 or PKP bottles upright untended or unstowed.
- H. No overriding or bypassing safety interlocks.
- I. No loose deck plates, which must have at least two bolts per deck plate.
- J. Ensure personnel wear proper hearing protection.
- K. Ensure personnel remain clear of rotating shafts or machinery.
- L. Do not work on live (energized) electrical equipment without the Commanding Officer's permission and only per NSTM 300.

J. (ORM Tenet: ID Hazards) Safety walk through has been/will be conducted immediately prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill.

11. Heat stress survey to be conducted prior to commencement of drill.

Follow on survey due: \_\_\_\_\_.

12. DCTT Communications: WICS channel ITT1.

**PART I: ETT**

SCENARIO: A major fuel leak develops in MER 1 LL (4-174-0-E), AFT/Centerline at the #1A Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge cage cutout valve. The leak may be isolated by securing #1A F/O service pump locally or remotely. After the response team has demonstrated the proper initial actions in flushing and covering the fire hazard, DCTT will flash into a fire. The ignition source will be the #1A F/O Service Pump motor.

Method of Imposing Casualty: ETT will initiate drill by giving F/O smell to watch standers.

Method of Imposing Leak: Smell of fuel oil from sample bottle. Spray water from spray bottle and yellow rags to show leak.



PLANT STATUS

PLANT READINESS (MODE)	FULL	SPLIT	TRAIL	AUX	COLD	IRON
GAS TURBINE ENGINES	1A	1B	2A	2B		
GAS TURBINE GENERATORS	1	2	3	// SPLIT	PLANT	PARALLEL
A/C PLANTS	1	2	3	4		
L/O SERVICE PUMPS	1A	1B	2A	2B		
F/O SERVICE PUMPS	1A	1B	2A	2B		
SEAWATER SERVICE PUMPS	1	2	3	4	5	
FIRE PUMPS	1	2	3	4	5	6
L/O PURIFIERS	1	2				
F/O PURIFIERS/XFR PUMPS	1	2				
HPAC/HPAD'S	# 1 (AUTO / MANUAL)			#2 (AUTO / MANUAL)		
PAC'S	# 1 (115 / 120 / 125)					
	# 2 (115 / 120 / 125)					
	# 3 (115 / 120 / 125)					
LPAD'S	1	2	3	4		
F/O SERVICE TANK ON SUCTION	1A	1B	2A	2B		

OOE EQUIPMENT: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## ART II: DCTT

### SEQUENCE OF EVENTS:

1. SPACE ETT/DCTT will disclose that the fire is increasing in intensity. The fire will continue to grow to the point that it is out of control and evacuation is necessary.

Method of Imposing: ADVANCE ON WATCHSTANDERS WITH RED AND BLACK RAGS.

2. Upon evacuating the space, watch stander will demonstrate SEED (by reaching for it and shouting out "activating SEED") and don a(n) training EEBO.

NOTE: MECHANICAL ISOLATION DCTT and ELECTRICAL ISOLATION DCTT will check for mechanical and electrical isolation of systems in the space. DCA/Scene Leader will make the decision to electrically isolate space lighting based on space conditions and if HALON bad scenario develops because of watch standers' actions.

Method of Imposition: As Found.

If HALON bad, Team leader/investigators will see Black Smoke/Red Rags. After electrical isolation has been verified by IN SPACE DCTT, Electrical Isolation DCTT will restore lighting to the space.

Electrical isolation will be complete with the following exceptions:

#1 SCU, 1A/1B IECs, IVCS jack boxes/phones, 1MC and 1MC lighting  
Halon indicators

NOTE: After watch standers evacuate the space, ETT/DCTT will check that the following actions are being completed:

- A. Securing of hatch to the space (setting Zebra).
- B. Pulling of emergency trips.
- C. Accounting for evacuees.
- D. Activation of bilge sprinkling.
- E. HALON activated, insure discharge, open bypass if necessary.

NOTE: DCTT will check that watch standers report to CCS.

3. Halon activation/ventilation trip will be disclosed by OSL DCTT manually by operating the sensor when a watch stander activates the system.

Method of Imposing: ACTIVATION OF CO2 BOTTLE PROP. DCTT LIFTING OF PNEUMATIC SWITCHES.

NOTE: HALON may be activated from either the affected space or from the DC Deck. In the event that it is activated from the space, the IN SPACE DCTT will prevent the watch stander from ACTUALLY charging the system and will report to the OSL DCTT so that he can activate alarms.

NOTE: IN SPACE DCTT will check for in space alarm activation (lights, horn) and ventilation shut-down. DCC DCTT check activation and vent shut-down alarms in CCS.

4. Primary HALON activation/discharge will be: (choose)

- \_\_\_\_\_ A. GOOD provided watch stander actions are correct (DC deck access closed and dogged down; all module doors and other fittings open to outside atmosphere are closed). This will be disclosed with a white disk held in view port. Fire party will wait for a minimum 15 minute soak time and then reenter space. If watch stander actions are incorrect, then indicate HALON BAD.
- \_\_\_\_\_ B. BAD is indicated with a black disk by DCTT (this will require Reserve HALON to be activated when determined by OSL). DCTT will disclose to OSL that primary HALON failed due to a ruptured pipe downstream of the time delay. Additionally, if HALON is BAD, no indication of HALON release will be seen on DC Console and outside the affected space after 60 seconds. If reserve HALON is GOOD as disclosed by DCTT, then a white disk will be displayed. Fire Party will wait for a minimum 15 minute soak time and then reenter space.
- xxxxx C. BAD as indicated with a black disk by DCTT. When determined by OSL, reserve HALON will be activated but will be disclosed by DCTT as BAD with no indication on DC Console or on bulkhead outside the affected space after 60 seconds. Fire party will then enter the space.

Method of Imposing for (BAD): Primary Halon--No lifting of pneumatic switches (bad CO2 Bottle). Reserve Halon--Lifting pneumatic switches but no discharge switch (bad time delay). If watch stander attempts to open bypass valve DCTT will give valve handle to watch stander (broken valve).

NOTE: (GOOD scenario only) If personnel fail to activate HALON or close up the space properly as determined by the DCTT, then HALON will be BAD (DCTT preps will change accordingly). The fire party shall enter the space and fight the fire. They should demonstrate their ability in hose handling, team coordination, communication, knowledge of major equipment location, and overhauling the fire.

5. When BOUNDARY DCTT is satisfied with the level of knowledge and proficiency of the fire boundary setters, he will disclose boundaries are hot for bad scenario cool for good.

Method of Imposing: (Bad) Gray BUBBLE WRAP / (Good) as found

6. One investigator will transit down the escape trunk to investigate the status of HALON. The other investigator will remain on the DC Deck. They will report conditions as found to the Scene Leader and Repair Party Leader. Once the smoke and fire boundaries, OOD, Scene Leader and investigators have reported conditions of the fire, the DCA shall make the call that HALON is GOOD/BAD.

Method of Imposing: (BAD) Black disk in view port/ hot boundaries/ black smoke from vents--OOD/ hot door--Scene Leader/ strobe light in L/L view port (GOOD) white disk in view port

7. Scene Leader energizes bilge sprinkling for an additional 2 minutes. At the conclusion of the 2 minute period, the Scene Leader will secure the bilge sprinkling system.

NOTE: AFFF system in re-circulation; watch stander pushes appropriate buttons.

- #1 HOSE DCTT will prevent #1 plug man from activating AFFF hose reel.
9. #2 HOSE DCTT will remove Inline Eductor hose from AFFF can before charging the hose and secure #2 hose at the FIRE PLUG AFTER #2 HOSE has been charged.
10. SCBA control will be maintained by the DCTT at the SCENE. all Personnel who will actually activate an SCBA.
11. When the team tests the agent, On Scene DCTT will disclose agent check. SAT.

Method of Imposing: AFFF - ZIP LOCK BAG WITH WHITE STYROFOAM PEANUTS.

12. When access man checks hatch for heat, On Scene DCTT will disclose a HOT hatch for bad scenario or cool for good.

Method of Imposing: (BAD) GRAY BUBBLE WRAP/ (GOOD) AS FOUND

13. As the fire party enters the space IN SPACE DCTT will disclose smoke is in the space.

Method of Imposing: Smoke generator

14. When all readily visible flames have disappeared, the team leader will declare "Fire Out, Re-flash Watch Set".

Method of Imposing: RED AND BLACK RAGS BEHIND THE BACK.

5. As the team leader investigates the space for Hot Spots/Hang Fires using he NFTI, IN SPACE DCTT will disclose 1 Hot Spot(s)/Hang Fire(s).

Method of Imposing: canteen with hot water.

16. When Team Leader checks bilge for AFFF coverage. IN SPACE DCTT discloses there is a vapor lock on all bilge surfaces.

Method of Imposing: White sheet laying in bilge

17. When overhaul gear and second hose team enters the space and reaches lower level, the IN SPACE DCTT will disclose the fire is overhauled.

Method of Imposing: Team Leader will instruct hose teams how overhaul will be conducted in space. Overhaul will be complete when all bilge surfaces are vapor secured.

18. DCA orders desmoking procedures for the affected space, IN SPACE DCTT will determine Fire Team's knowledge of desmoking procedures as space is desmoked.

Method of Imposing: DESMOKING OF SPACE USING POSITIVE VENTILATION.

19. Gas Free Petty Officer will calibrate the atmospheric test gear on main deck. He will be questioned by DCTT regarding knowledge of equipment and procedures.

20. Once desmoking is complete, DCTT will stop drill and debrief on station.

## 21. SYMPTOMS

### A. LEAK:

- (1) High bilge level alarm.
- (2) Low tank level alarm.
- (3) Smell of fuel/lube oil in space.
- (4) Flammable liquid in bilge.
- (5) Faulty flange/piping/flex hose/mechanical seal.

### B. FIRE:

- (1) Smoke and flames in space.
- (2) Smoke and fire alarms.
- (3) Hot Hatch, Hot Bulkhead.

## 22. CAUSES

- A. Major lube oil leak.
- B. Major fuel oil leak.
- C. Electrical fire.

## 23. AUTHORIZED DISCLOSURES:

1. -Lifting of sensor alarms to indicate flooding.
2. -Opening of F/O Unloader By-pass Vlv for loss of F/O pressure.
3. -Spray bottle with yellow rag indicating Fuel Oil/Lube Oil leak.
4. -Yellow rag on deck indicating Fuel Oil/Lube Oil on deck.
5. -Fire out of control: Waving red rag vigorously over head.
6. -Fire contained: Rags waved at waist level.
7. -Fire out: Rags placed behind back.
3. -Halon flooding indications: Activation of appropriate pressure switches.
9. -Dropping AFFF tank level: Using magnet/tape on sight glass.
10. -Hot bulkhead or door disclosed by placing bubble wrap on bulkhead or Door.
11. -Rags placed in bilge for hazard being flushed to bilge.
12. -Alarm indications in CCS.
13. -Halon good indication: No disk/white disk placed at portholes.
14. -Halon bad indication: Black disk placed at portholes.
15. -Zip lock bag with purple rag indicates PKP test satisfactory.
16. -Zip lock bag with white styrofoam peanuts on deck for AFFF hose test.
17. -Tap on PKP bottle for empty bottle.
18. -Apply stickies with handwritten notes to disclose various parameters to CCS/EDO.
19. -Apply strip of masking tape to locks simulated cut.
20. -Desmoking complete, (no actual smoke) removal of black rags on hanger.
21. -AFFF fake activator buttons over actual button covers.
22. -Halon 5LB co2 bottle prop.

23. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

1. -Activation or energizing firefighting equipment as briefed.
2. -Lightoff of SCBAs and EEBDs except as briefed.
3. -Maneuvering the ship to minimize smoke re-ingestion.
4. -Smoke observations by the OOD
5. -Halon 15 min. soak time.
6. -Fuel Oil/Lube Oil leak..
7. -Liquid in bilge.
8. -Smoke & fire symptoms.
9. -Electrical & mechanical isolation as briefed.
10. -Rake will be only overhaul gear item taken into space.
11. -Overhaul of space.
12. -Starting and stopping of engineering equipment, except as authorized by ETT/DCTT.
13. -Breaking of Draeger tubes.
14. -Open Repair Lockers 2, 3, and 5 prior to drill.
15. -Relaxing of FFEs and SCBA facepieces once Battle dress sat as briefed.
16. -Food service personnel will continue meal prep if required.
17. -Dewatering procedures.
18. -Cutting locks on spaces containing fire boundaries.
19. -Bolt cutters will be taped over during drill.
20. -Charging hoses as briefed.
21. -Charged hoses will be closed by taped/bungee cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS starting standby GTG.
24. -CCS watch isolation of EPCC Fuses as briefed.
25. -Muster non-duty section personnel.
26. -Fuses from fuse panels will not be pulled unless actual emergency.  
A tag will be hung indicating fuse was pulled.

OPERATIONAL RISK MANAGEMENT  
- IDENTIFY HAZARDS  
- ASSESS THE RISKS vs BENIFITS  
- EVALUATE CONTROL OPTIONS  
- SUPERVISE



DCO

DCTT LDR:

Approved: CO

*Handwritten signature*

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

Compt 4-174-0-E Noun Name MER 1 Date: 20080301

1. GENERAL DESCRIPTION: During normal underway operations, a flammable liquid leak/spray is discovered in NR 1 Main Engine Room, resulting in a major class "B" fire. The EOW directs space isolation and initial fire fighting efforts. The ERO/PSM/ARO attempt to combat the fire. The fire is declared out of control and the space is evacuated. Primary HALON is activated which is evaluated as good/bad. If bad, Scene Leader activates reserve HALON which is evaluated as good/bad. The fire party must/does not need to enter the space to combat the fire.

2. OBJECTIVE: Training/Evaluation General Quarters. (ORM Tenet: Supervise)

3. FXP-4 Drill to be conducted during this training period:

- MOB-D-3-SF                   Manning Battle Stations
- MOB-D-9-SF                   Main Space Fire Drill
- MOB-D-11-SF                 Setting Material Condition (Yoke and Zebra)
- MOB-D-23-SF                 Locating DC Fittings

4. The training period will be between TBD.

5. LESSONS LEARNED LAST DRILL: OSL needs to know space layout and establish choke points. Ensure investigators correctly identify halon on release panel. Quickly and correctly establish fire boundaries and report.

6. Lockers will be debriefed at Repair lockers after the DCTT debrief. DCTT debrief will be conducted following the drill in the Wardroom.

7. DCTT/ETT Assignments:

DCCT Leader (DCC)	LCDR [REDACTED]	(Q)
DCC	MS1 [REDACTED]	(Q)
Rover	GSMC [REDACTED]	(Q)
COD	QMC [REDACTED]	(Q)
Scene Leader	DC1 [REDACTED]	(Q)
Locker Leader	HCMC [REDACTED]	(Q)
#1 Hose	GMC [REDACTED]	(Q)
#2 Hose	SKC [REDACTED]	(Q)
In Space #1	DC1 [REDACTED]	(Q)
In Space #2	SHC [REDACTED]	(Q)
Investigators	MAL [REDACTED]	(Q)
Boundrymen	STGCM [REDACTED]	(Q)
	ENC [REDACTED]	(Q)
Electrical Isolation	EMC [REDACTED]	(Q)
Mechanical Isolation	HT1 [REDACTED]	(Q)
AFFF Operator	PNC [REDACTED]	(Q)
Medical	HMC [REDACTED]	(Q)
ETT Leader	LT [REDACTED]	(Q)
SPACE ETT	GSCS I [REDACTED]	(Q)

*Handwritten notes:*  
4-174-0-E  
Sally  
N. [unclear]  
555  
[unclear]  
[unclear]

8. SAFETY: (ORM Tenet: Assess risks vs benefits) ETT/DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE ETT/DCTT MEMBER WILL CORRECT THE SAFETY VIOLATION AND NOTIFY THE ETT/DCTT LEADER OF THE SITUATION. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, ETT/DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE ETT/DCTT LEADER OF THE SITUATION. ETT/DCTT WILL ALLOW WATCH STANDERS TO HANDLE THE ACTUAL CASUALTY. IN THE EVENT WATCH STANDERS DO NOT HANDLE THE ACTUAL CASUALTY, THE ETT/DCTT WILL STEP IN AND TAKE CORRECTIVE ACTION. THE ETT/DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

9. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. Observe personnel dressed out in fire fighting ensembles for signs of heat stress.
- B. Ensure hoses are charged and then secured at the plug and that electrical equipment is not hosed down.
- C. Ensure SCBA cylinders are properly secured when not in use.
- D. No running.
- E. No straddling of hoses.
- F. Two or more people lifting/lowering water tight hatches.
- G. No leaving CO2 or PKP bottles upright untended or unstowed.
- H. No overriding or bypassing safety interlocks.
- I. No loose deck plates, which must have at least two bolts per deck plate.
- J. Ensure personnel wear proper hearing protection.
- K. Ensure personnel remain clear of rotating shafts or machinery.
- L. Do not work on live (energized) electrical equipment without the Commanding Officer's permission and only per NSTM 300.

10. (ORM Tenet: ID Hazards) Safety walk through has been/will be conducted immediately prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill.

11. Heat stress survey to be conducted prior to commencement of drill.

Follow on survey due: \_\_\_\_\_.

12. DCTT Communications: WICS channel ITT1.

## PART I: ETT

SCENARIO: A major fuel leak develops in MER 1 LL (4-174-0-E), AFT/Centerline at the #1A Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge gate cutout valve. The leak may be isolated by securing #1A F/O service pump locally or remotely. After the response team has demonstrated the proper initial actions in flushing and covering the fire hazard, DCTT will flash into a fire. The ignition source will be the #1A F/O Service Pump motor.

Method of Imposing Casualty: ETT will initiate drill by giving F/O smell to watch standers.

Method of Imposing Leak: Smell of fuel oil from sample bottle. Spray water from spray bottle and yellow rags to show leak.



PLANT STATUS

PLANT READINESS (MODE)	FULL	SPLIT	TRAIL	AUX	COLD	IRON
GAS TURBINE ENGINES	1A	1B	2A	2B		
GAS TURBINE GENERATORS	1	2	3 // SPLIT	PLANT	PARALLEL	
A/C PLANTS	1	2	3	4		
L/O SERVICE PUMPS	1A	1B	2A	2B		
F/O SERVICE PUMPS	1A	1B	2A	2B		
SEAWATER SERVICE PUMPS	1	2	3	4	5	
FIRE PUMPS	1	2	3	4	5	6
L/O PURIFIERS	1	2				
F/O PURIFIERS/XFR PUMPS	1	2				
HPAC/HPAD'S	# 1 (AUTO / MANUAL)			#2 (AUTO / MANUAL)		
LPAC'S	# 1 (115 / 120 / 125)					
	# 2 (115 / 120 / 125)					
	# 3 (115 / 120 / 125)					
LPAD'S	1	2	3	4		
F/O SERVICE TANK ON SUCTION	1A	1B	2A	2B		

OOC EQUIPMENT: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## PART II: DCTT

### SEQUENCE OF EVENTS:

1. SPACE ETT/DCTT will disclose that the fire is increasing in intensity. The fire will continue to grow to the point that it is out of control and evacuation is necessary.

Method of Imposing: ADVANCE ON WATCHSTANDERS WITH RED AND BLACK RAGS.

2. Upon evacuating the space, watch stander will demonstrate SEED (by reaching for it and shouting out "activating SEED") and don a(n) training EEED.

NOTE: MECHANICAL ISOLATION DCTT and ELECTRICAL ISOLATION DCTT will check for mechanical and electrical isolation of systems in the space. DCA/Scene Leader will make the decision to electrically isolate space lighting based on space conditions and if HALON bad scenario develops because of watch standers' actions.

Method of Imposition: As Found.

If HALON bad, Team leader/investigators will see Black Smoke/Red Rags. After electrical isolation has been verified by IN SPACE DCTT, Electrical Isolation DCTT will restore lighting to the space.

Electrical isolation will be complete with the following exceptions:

#1 SCU, 1A/1B IECs, IVCS jack boxes/phones, 1MC and 1MC lighting  
Halon indicators

NOTE: After watch standers evacuate the space, ETT/DCTT will check that the following actions are being completed:

- A. Securing of hatch to the space (setting Zebra).
- B. Pulling of emergency trips.
- C. Accounting for evacuees.
- D. Activation of bilge sprinkling.
- E. HALON activated, insure discharge, open bypass if necessary.

NOTE: DCTT will check that watch standers report to CCS.

3. Halon activation/ventilation trip will be disclosed by OSL DCTT manually by operating the sensor when a watch stander activates the system.

Method of Imposing: ACTIVATION OF CO2 BOTTLE PROP. DCTT LIFTING OF PNEUMATIC SWITCHES.

NOTE: HALON may be activated from either the affected space or from the DC Deck. In the event that it is activated from the space, the IN SPACE DCTT will prevent the watch stander from ACTUALLY charging the system and will report to the OSL DCTT so that he can activate alarms.

NOTE: IN SPACE DCTT will check for in space alarm activation (lights, horn) and ventilation shut-down. DCC DCTT check activation and vent shut-down alarms in CCS.

4. Primary HALON activation/discharge will be: (choose)

- \_\_\_\_\_ A. GOOD provided watch stander actions are correct (DC deck access closed and dogged down; all module doors and other fittings open to outside atmosphere are closed). This will be disclosed with a white disk held in view port. Fire party will wait for a minimum 15 minute soak time and then reenter space. If watch stander actions are incorrect, then indicate HALON BAD.
- \_\_\_\_\_ B. BAD is indicated with a black disk by DCTT (this will require Reserve HALON to be activated when determined by OSL). DCTT will disclose to OSL that primary HALON failed due to a ruptured pipe downstream of the time delay. Additionally, if HALON is BAD, no indication of HALON release will be seen on DC Console and outside the affected space after 60 seconds. If reserve HALON is GOOD as disclosed by DCTT, then a white disk will be displayed. Fire Party will wait for a minimum 15 minute soak time and then reenter space.
- XXXXX C. BAD as indicated with a black disk by DCTT. When determined by OSL, reserve HALON will be activated but will be disclosed by DCTT as BAD with no indication on DC Console or on bulkhead outside the affected space after 60 seconds. Fire party will then enter the space.

Method of Imposing for (BAD): Primary Halon--No lifting of pneumatic switches (bad CO2 Bottle). Reserve Halon--Lifting pneumatic switches but no discharge switch (bad time delay). If watch stander attempts to open bypass valve DCTT will give valve handle to watch stander (broken valve).

NOTE: (GOOD scenario only) If personnel fail to activate HALON or close up the space properly as determined by the DCTT, then HALON will be BAD (DCTT props will change accordingly). The fire party shall enter the space and fight the fire. They should demonstrate their ability in hose handling, team coordination, communication, knowledge of major equipment location, and overhauling the fire.

5. When BOUNDARY DCTT is satisfied with the level of knowledge and proficiency of the fire boundary setters, he will disclose boundaries are hot for bad scenario cool for good.

Method of Imposing: (Bad) Gray BUBBLE WRAP / (Good) as found

6. One investigator will transit down the escape trunk to investigate the status of HALON. The other investigator will remain on the DC Deck. They will report conditions as found to the Scene Leader and Repair Party Leader. Once the smoke and fire boundaries, OOD, Scene Leader and investigators have reported conditions of the fire, the DCA shall make the call that HALON is GOOD/BAD.

Method of Imposing: (BAD) Black disk in view port/ hot boundaries/ black smoke from vents--OOD/ hot door--Scene Leader/ strobe light in L/L view port (GOOD) white disk in view port

7. Scene Leader energizes bilge sprinkling for an additional 2 minutes. At the conclusion of the 2 minute period, the Scene Leader will secure the bilge sprinkling system.

NOTE: AFFF system in re-circulation; watch stander pushes appropriate buttons.

8. #1 HOSE DCTT will prevent #1 plug man from activating AFFF hose reel.
9. #2 HOSE DCTT will remove Inline Eductor hose from AFFF can before charging the hose and secure #2 hose at the FIRE PLUG AFTER #2 HOSE has been charged.
10. SCBA control will be maintained by the DCTT at the SCENE. all Personnel who will actually activate an SCBA.
11. When the team tests the agent, On Scene DCTT will disclose agent check. SAT.

Method of Imposing: AFFF - ZIP LOCK BAG WITH WHITE STYROFOAM PEANUTS.

12. When access man checks hatch for heat, On Scene DCTT will disclose a HOT hatch for bad scenario or cool for good.

Method of Imposing: (BAD) GRAY BUBBLE WRAP/ (GOOD) AS FOUND

13. As the fire party enters the space IN SPACE DCTT will disclose smoke is in the space.

Method of Imposing: Smoke generator

14. When all readily visible flames have disappeared, the team leader will declare "Fire Out, Re-flash Watch Set".

Method of Imposing: RED AND BLACK RAGS BEHIND THE BACK.

15. As the team leader investigates the space for Hot Spots/Hang Fires using the NFTI, IN SPACE DCTT will disclose 1 Hot Spot(s)/Hang Fire(s).

Method of Imposing: canteen with hot water.

16. When Team Leader checks bilge for AFFF coverage. IN SPACE DCCT discloses there is a vapor lock on all bilge surfaces.

Method of Imposing: White sheet laying in bilge

17. When overhaul gear and second hose team enters the space and reaches lower level, the IN SPACE DCTT will disclose the fire is overhauled.

Method of Imposing: Team Leader will instruct hose teams how overhaul will be conducted in space. Overhaul will be complete when all bilge surfaces are vapor secured.

18. DCA orders desmoking procedures for the affected space, IN SPACE DCTT will determine Fire Team's knowledge of desmoking procedures as space is desmoked.

Method of Imposing: DESMOKING OF SPACE USING POSITIVE VENTILATION.

19. Gas Free Petty Officer will calibrate the atmospheric test gear on main deck. He will be questioned by DCTT regarding knowledge of equipment and procedures.

20. Once desmoking is complete, DCTT will stop drill and debrief on station.

## 21. SYMPTOMS

### A. LEAK:

- (1) High bilge level alarm.
- (2) Low tank level alarm.
- (3) Smell of fuel/lube oil in space.
- (4) Flammable liquid in bilge.
- (5) Faulty flange/piping/flex hose/mechanical seal.

### B. FIRE:

- (1) Smoke and flames in space.
- (2) Smoke and fire alarms.
- (3) Hot Hatch, Hot Bulkhead.

## 22. CAUSES

- A. Major lube oil leak.
- B. Major fuel oil leak.
- C. Electrical fire.

## 23. AUTHORIZED DISCLOSURES:

1. -Lifting of sensor alarms to indicate flooding.
2. -Opening of F/O Unloader By-pass Vlv for loss of F/O pressure.
3. -Spray bottle with yellow rag indicating Fuel Oil/Lube Oil leak.
4. -Yellow rag on deck indicating Fuel Oil/Lube Oil on deck.
5. -Fire out of control: Waving red rag vigorously over head.
6. -Fire contained: Rags waved at waist level.
7. -Fire out: Rags placed behind back.
8. -Halon flooding indications: Activation of appropriate pressure switches.
9. -Dropping AFFF tank level: Using magnet/tape on sight glass.
10. -Hot bulkhead or door disclosed by placing bubble wrap on bulkhead or Door.
11. -Rags placed in bilge for hazard being flushed to bilge.
12. -Alarm indications in CCS.
13. -Halon good indication: No disk/white disk placed at portholes.
14. -Halon bad indication: Black disk placed at portholes.
15. -Zip lock bag with purple rag indicates PKP test satisfactory.
16. -Zip lock bag with white styrofoam peanuts on deck for AFFF hose test.
17. -Tap on PKP bottle for empty bottle.
18. -Apply stickies with handwritten notes to disclose various parameters to CCS/EDO.
19. -Apply strip of masking tape to locks simulated cut.
20. -Desmoking complete, (no actual smoke) removal of black rags on hanger.
21. -AFFF fake activator buttons over actual button covers.
22. -Halon 5LB co2 bottle prop.

23. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

1. -Activation or energizing firefighting equipment as briefed.
2. -Lightoff of SCBAs and EEBDs except as briefed.
3. -Maneuvering the ship to minimize smoke re-ingestion.
4. -Smoke observations by the OOD
5. -Halon 15 min. soak time.
6. -Fuel Oil/Lube Oil leak..
7. -Liquid in bilge.
8. -Smoke & fire symptoms.
9. -Electrical & mechanical isolation as briefed.
10. -Rake will be only overhaul gear item taken into space.
11. -Overhaul of space.
12. -Starting and stopping of engineering equipment, except as authorized by ETT/DCTT.
13. -Breaking of Draeger tubes.
14. -Open Repair Lockers 2, 3, and 5 prior to drill.
15. -Relaxing of FFEs and SCBA facepieces once Battle dress sat as briefed.
16. -Food service personnel will continue meal prep if required.
17. -Dewatering procedures.
18. -Cutting locks on spaces containing fire boundaries.
19. -Bolt cutters will be taped over during drill.
20. -Charging hoses as briefed.
21. -Charged hoses will be closed by taped/bungee cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS starting standby GTG.
24. -CCS watch isolation of EPCC Fuses as briefed.
25. -Muster non-duty section personnel.
26. -Fuses from fuse panels will not be pulled unless actual emergency.  
A tag will be hung indicating fuse was pulled.

OPERATIONAL RISK MANAGEMENT

- IDENTIFY HAZARDS
- ASSESS THE RISKS vs BENIFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

EVOLUTION EVALUATION FORM

ROUTING

ITT LEADER \_\_\_\_\_  
 TEAM LEADER \_\_\_\_\_  
 EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT  
 EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_  
 WATCHSTATION/ WATCHSTANDER \_\_\_\_\_  
 EVALUATOR \_\_\_\_\_

DATE: 29 SEP 00

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY  
 TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. OTHER BROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_  
 Locked cabinet in CCS w/Andersen  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

END

3. COMMUNICATIONS: \_\_\_\_\_  
 Missing 2 Eves headsets in CCS | use head complete  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

4. MATERIAL: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5. TRAINING TEAM DEFICIENCIES: \_\_\_\_\_  
 M/S in Aux space via U/B  
 \_\_\_\_\_  
 \_\_\_\_\_

6. RECOMMENDATIONS: \_\_\_\_\_  
 M/S open boundary  
 \_\_\_\_\_  
 \_\_\_\_\_

512 Fls Leak  
 73 GQ  
 7 Cross B Fire MTT 15:7  
 78 Valve, relay →  
 Valve not effected (1521) - 4 min  
 32 Zebra Mark  
 7 Mech Isolation - Phase I - 5 min  
 55 Elec Isolation - Phase II  
 416 - 7 min  
 26 set ordered to enter space

SCBA ~~etc~~ light off? In 1522  
 HT 1528  
 1535 Entered space  
 (18 min after fire)  
 ‡  
 1553(4) HT (longest complete  
 (19 min in space)

DCO

DCTT LDR:

Approved: CO

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

Compt 4-174-0-E Noun Name MER 1 Date:

1. GENERAL DESCRIPTION: During normal underway operations, a flammable liquid leak/spray is discovered in NR 1 Main Engine Room, resulting in a major class "B" fire. The EOOW directs space isolation and initial fire fighting efforts. The ERO/PSM/ARO attempt to combat the fire. The fire is declared out of control and the space is evacuated. Primary HALON is activated which is evaluated as good/bad. If bad, Scene Leader activates reserve HALON which is evaluated as good/bad. The fire party must/does not need to enter the space to combat the fire.

2. OBJECTIVE: Training/Evaluation General Quarters. (ORM Tenet: Supervise)

3. FXP-4 Drill to be conducted during this training period:

- MOB-D-3-SF Manning Battle Stations
- MOB-D-9-SF Main Space Fire Drill
- MOB-D-11-SF Setting Material Condition (Yoke and Zebra)
- MOB-D-23-SF Locating DC Fittings

4. The training period will be between TBD.

5. LESSONS LEARNED LAST DRILL: OSL needs to know space layout and establish choke points. Ensure investigators correctly identify halon on release panel. Quickly and correctly establish fire boundaries and report.

6 Lockers will be debriefed at Repair lockers after the DCTT debrief. DCTT debrief will be conducted following the drill in the Wardroom.

7. DCTT/ETT Assignments:

- |                      |       |     |
|----------------------|-------|-----|
| DCCT Leader (DCC)    | LCDR  | (Q) |
| DCC                  | MS1   | (Q) |
| Rover                | GSMC  | (Q) |
| OOD                  | QMC   | (Q) |
| Scene Leader         | DC1   | (Q) |
| Locker Leader        | HCMC  | (Q) |
| #1 Hose              | GMC   | (Q) |
| #2 Hose              | SKC   | (Q) |
| In Space #1          | DC1   | (Q) |
| In Space #2          | SHC   | (Q) |
| Investigators        | MA1   | (Q) |
| Boundrymen           | STGCM | (Q) |
|                      | ENC   | (Q) |
| Electrical Isolation | EMC   | (Q) |
| Mechanical Isolation | HT1   | (Q) |
| AFFF Operator        | PNC   | (Q) |
| Medical              | HMC   | (Q) |
| ETT Leader           | LT    | (Q) |
| SPACE ETT            | GSCS  | (Q) |

8. SAFETY: (ORM Tenet: Assess risks vs benefits) ETT/DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE ETT/DCTT MEMBER WILL CORRECT THE SAFETY VIOLATION AND NOTIFY THE ETT/DCTT LEADER OF THE SITUATION. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, ETT/DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE ETT/DCTT LEADER OF THE SITUATION. ETT/DCTT WILL ALLOW WATCH STANDERS TO HANDLE THE ACTUAL CASUALTY. IN THE EVENT WATCH STANDERS DO NOT HANDLE THE ACTUAL CASUALTY, THE ETT/DCTT WILL STEP IN AND TAKE CORRECTIVE ACTION. THE ETT/DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

9. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. Observe personnel dressed out in fire fighting ensembles for signs of heat stress.
- B. Ensure hoses are charged and then secured at the plug and that electrical equipment is not hosed down.
- C. Ensure SCBA cylinders are properly secured when not in use.
- D. No running.
- E. No straddling of hoses.
- F. Two or more people lifting/lowering water tight hatches.
- G. No leaving CO2 or PKP bottles upright untended or unstowed.
- H. No overriding or bypassing safety interlocks.
- I. No loose deck plates, which must have at least two bolts per deck plate.
- J. Ensure personnel wear proper hearing protection.
- K. Ensure personnel remain clear of rotating shafts or machinery.
- L. Do not work on live (energized) electrical equipment without the Commanding Officer's permission and only per NSTM 300.

10. (ORM Tenet: ID Hazards) Safety walk through has been/will be conducted immediately prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill.

11. Heat stress survey to be conducted prior to commencement of drill.

Follow on survey due: \_\_\_\_\_.

12. DCTT Communications: WICS channel ITT1.

## PART I: ETT

SCENARIO: A major fuel leak develops in MER 1 LL (4-174-0-E), AFT/Centerline at the #1A Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge safe cutout valve. The leak may be isolated by securing #1A F/O service pump locally or remotely. After the response team has demonstrated the proper initial actions in flushing and covering the fire hazard, DCTT will flash into a fire. The ignition source will be the #1A F/O Service Pump motor.

Method of Imposing Casualty: ETT will initiate drill by giving F/O smell to watch standers.

Method of Imposing Leak: Smell of fuel oil from sample bottle. Spray water from spray bottle and yellow rags to show leak.



PLANT STATUS

PLANT READINESS (MODE)	FULL SPLIT TRAIL AUX COLD IRON					
GAS TURBINE ENGINES	1A	1B	2A	2B		
GAS TURBINE GENERATORS	1	2	3 // SPLIT	PLANT	PARALLEL	
A/C PLANTS	1	2	3	4		
L/O SERVICE PUMPS	1A	1B	2A	2B		
F/O SERVICE PUMPS	1A	1B	2A	2B		
SEAWATER SERVICE PUMPS	1	2	3	4	5	
FIRE PUMPS	1	2	3	4	5	6
L/O PURIFIERS	1	2				
F/O PURIFIERS/XFR PUMPS	1	2				
HPAC/HPAD'S	# 1 (AUTO/MANUAL)			#2 (AUTO/MANUAL)		
LPAC'S	# 1 (115 / 120 / 125)					
	# 2 (115 / 120 / 125)					
	# 3 (115 / 120 / 125)					
LPAD'S	1	2	3	4		
F/O SERVICE TANK ON SUCTION	1A	1B	2A	2B		

OOE EQUIPMENT: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## PART II: DCTT

### SEQUENCE OF EVENTS:

1. SPACE ETT/DCTT will disclose that the fire is increasing in intensity. The fire will continue to grow to the point that it is out of control and evacuation is necessary.

Method of Imposing: ADVANCE ON WATCHSTANDERS WITH RED AND BLACK RAGS.

2. Upon evacuating the space, watch stander will demonstrate SEED (by reaching for it and shouting out "activating SEED") and don a(n) training EEBD.

NOTE: MECHANICAL ISOLATION DCTT and ELECTRICAL ISOLATION DCTT will check for mechanical and electrical isolation of systems in the space. DCA/Scene Leader will make the decision to electrically isolate space lighting based on space conditions and if HALON bad scenario develops because of watch standers' actions.

Method of Imposition: As Found.

If HALON bad, Team leader/investigators will see Black Smoke/Red Rags. After electrical isolation has been verified by IN SPACE DCTT, Electrical Isolation DCTT will restore lighting to the space.

Electrical isolation will be complete with the following exceptions:

#1 SCU, 1A/1B IECs, IVCS jack boxes/phones, LMC and LMC lighting  
Halon indicators

NOTE: After watch standers evacuate the space, ETT/DCTT will check that the following actions are being completed:

- A. Securing of hatch to the space (setting Zebra).
- B. Pulling of emergency trips.
- C. Accounting for evacuees.
- D. Activation of bilge sprinkling.
- E. HALON activated, insure discharge, open bypass if necessary.

NOTE: DCTT will check that watch standers report to CCS.

3. Halon activation/ventilation trip will be disclosed by OSL DCTT manually by operating the sensor when a watch stander activates the system.

Method of Imposing: ACTIVATION OF CO2 BOTTLE PROP. DCTT LIFTING OF PNEUMATIC SWITCHES.

NOTE: HALON may be activated from either the affected space or from the DC Deck. In the event that it is activated from the space, the IN SPACE DCTT will prevent the watch stander from ACTUALLY charging the system and will report to the OSL DCTT so that he can activate alarms.

NOTE: IN SPACE DCTT will check for in space alarm activation (lights, horn) and ventilation shut-down. DCC DCTT check activation and vent shut-down alarms in CCS.

Primary HALON activation/discharge will be: (choose)

- ..XXX A. GOOD provided watch stander actions are correct (DC deck access closed and dogged down; all module doors and other fittings open to outside atmosphere are closed). This will be disclosed with a white disk held in view port. Fire party will wait for a minimum 15 minute soak time and then reenter space. If watch stander actions are incorrect, then indicate HALON BAD.
- \_\_\_\_\_ B. BAD is indicated with a black disk by DCTT (this will require Reserve HALON to be activated when determined by OSL). DCTT will disclose to OSL that primary HALON failed due to a ruptured pipe downstream of the time delay. Additionally, if HALON is BAD, no indication of HALON release will be seen on DC Console and outside the affected space after 60 seconds. If reserve HALON is GOOD as disclosed by DCTT, then a white disk will be displayed. Fire Party will wait for a minimum 15 minute soak time and then reenter space.
- \_\_\_\_\_ C. BAD as indicated with a black disk by DCTT. When determined by OSL, reserve HALON will be activated but will be disclosed by DCTT as BAD with no indication on DC Console or on bulkhead outside the affected space after 60 seconds. Fire party will then enter the space.

Method of Imposing for (BAD): Primary Halon--No lifting of pneumatic switches (bad CO2 Bottle). Reserve Halon--Lifting pneumatic switches but no discharge switch (bad time delay). If watch stander attempts to open bypass valve DCTT will give valve handle to watch stander (broken valve).

NOTE: (GOOD scenario only) If personnel fail to activate HALON or close up the space properly as determined by the DCTT, then HALON will be BAD (DCTT props will change accordingly). The fire party shall enter the space and fight the fire. They should demonstrate their ability in hose handling, team coordination, communication, knowledge of major equipment location, and overhauling the fire.

5. When BOUNDARY DCTT is satisfied with the level of knowledge and proficiency of the fire boundary setters, he will disclose boundaries are hot for bad scenario cool for good.

Method of Imposing: (Bad) Gray BUBBLE WRAP / (Good) as found

6. One investigator will transit down the escape trunk to investigate the status of HALON. The other investigator will remain on the DC Deck. They will report conditions as found to the Scene Leader and Repair Party Leader. Once the smoke and fire boundaries, OOD, Scene Leader and investigators have reported conditions of the fire, the DCA shall make the call that HALON is GOOD/BAD.

Method of Imposing: (BAD) Black disk in view port/ hot boundaries/ black smoke from vents--OOD/ hot door--Scene Leader/ strobe light in L/L view port (GOOD) white disk in view port

7. Scene Leader energizes bilge sprinkling for an additional 2 minutes. At the conclusion of the 2 minute period, the Scene Leader will secure the bilge sprinkling system.

NOTE: AFFF system in re-circulation; watch stander pushes appropriate buttons.

8. #1 HOSE DCTT will prevent #1 plug man from activating AFFF hose reel.
9. #2 HOSE DCTT will remove Inline Eductor hose from AFFF can before charging the hose and secure #2 hose at the FIRE PLUG AFTER #2 HOSE has been charged.
10. SCBA control will be maintained by the DCTT at the SCENE. all Personnel who will actually activate an SCBA.
11. When the team tests the agent, On Scene DCTT will disclose agent check. SAT.

Method of Imposing: AFFF - ZIP LOCK BAG WITH WHITE STYROFOAM PEANUTS.

12. When access man checks hatch for heat, On Scene DCTT will disclose a HOT hatch for bad scenario or cool for good.

Method of Imposing: (BAD) GRAY BUBBLE WRAP/ (GOOD) AS FOUND

13. As the fire party enters the space IN SPACE DCTT will disclose smoke is in the space.

Method of Imposing: Smoke generator

14. When all readily visible flames have disappeared, the team leader will declare "Fire Out, Re-flash Watch Set".

Method of Imposing: RED AND BLACK RAGS BEHIND THE BACK.

15. As the team leader investigates the space for Hot Spots/Hang Fires using the NFTI, IN SPACE DCTT will disclose 1 Hot Spot(s)/Hang Fire(s).

Method of Imposing: canteen with hot water.

16. When Team Leader checks bilge for AFFF coverage. IN SPACE DCTT discloses there is a vapor lock on all bilge surfaces.

Method of Imposing: White sheet laying in bilge

17. When overhaul gear and second hose team enters the space and reaches lower level, the IN SPACE DCTT will disclose the fire is overhauled.

Method of Imposing: Team Leader will instruct hose teams how overhaul will be conducted in space. Overhaul will be complete when all bilge surfaces are vapor secured.

18. DCA orders desmoking procedures for the affected space, IN SPACE DCTT will determine Fire Team's knowledge of desmoking procedures as space is desmoked.

Method of Imposing: DESMOKING OF SPACE USING POSITIVE VENTILATION.

19. Gas Free Petty Officer will calibrate the atmospheric test gear on main deck. He will be questioned by DCTT regarding knowledge of equipment and procedures.

20. Once desmoking is complete, DCTT will stop drill and debrief on station.

## 21. SYMPTOMS

### A. LEAK:

- (1) High bilge level alarm.
- (2) Low tank level alarm.
- (3) Smell of fuel/lube oil in space.
- (4) Flammable liquid in bilge.
- (5) Faulty flange/piping/flex hose/mechanical seal.

### B. FIRE:

- (1) Smoke and flames in space.
- (2) Smoke and fire alarms.
- (3) Hot Hatch, Hot Bulkhead.

## 22. CAUSES

- A. Major lube oil leak.
- B. Major fuel oil leak.
- C. Electrical fire.

## 23. AUTHORIZED DISCLOSURES:

1. -Lifting of sensor alarms to indicate flooding.
2. -Opening of F/O Unloader By-pass Vlv for loss of F/O pressure.
3. -Spray bottle with yellow rag indicating Fuel Oil/Lube Oil leak.
4. -Yellow rag on deck indicating Fuel Oil/Lube Oil on deck.
5. -Fire out of control: Waving red rag vigorously over head.
6. -Fire contained: Rags waved at waist level.
7. -Fire out: Rags placed behind back.
8. -Halon flooding indications: Activation of appropriate pressure switches.
9. -Dropping AFFF tank level: Using magnet/tape on sight glass.
10. -Hot bulkhead or door disclosed by placing bubble wrap on bulkhead or Door.
11. -Rags placed in bilge for hazard being flushed to bilge.
12. -Alarm indications in CCS.
13. -Halon good indication: No disk/white disk placed at portholes.
14. -Halon bad indication: Black disk placed at portholes.
15. -Zip lock bag with purple rag indicates PKP test satisfactory.
16. -Zip lock bag with white styrofoam peanuts on deck for AFFF hose test.
17. -Tap on PKP bottle for empty bottle.
18. -Apply stickies with handwritten notes to disclose various parameters to CCS/EDO.
19. -Apply strip of masking tape to locks simulated cut.
20. -Desmoking complete, (no actual smoke) removal of black rags on hanger.
21. -AFFF fake activator buttons over actual button covers.
22. -Halon 5LB co2 bottle prop.

23. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

1. -Activation or energizing firefighting equipment as briefed.
2. -Lightoff of SCBAs and EEBDs except as briefed.
3. -Maneuvering the ship to minimize smoke re-ingestion.
4. -Smoke observations by the OOD
5. -Halon 15 min. soak time.
6. -Fuel Oil/Lube Oil leak..
7. -Liquid in bilge.
8. -Smoke & fire symptoms.
9. -Electrical & mechanical isolation as briefed.
10. -Rake will be only overhaul gear item taken into space.
11. -Overhaul of space.
12. -Starting and stopping of engineering equipment, except as authorized by ETT/DCTT.
13. -Breaking of Draeger tubes.
14. -Open Repair Lockers 2, 3, and 5 prior to drill.
15. -Relaxing of FFES and SCBA facepieces once Battle dress sat as briefed.
16. -Food service personnel will continue meal prep if required.
17. -Dewatering procedures.
18. -Cutting locks on spaces containing fire boundaries.
19. -Bolt cutters will be taped over during drill.
20. -Charging hoses as briefed.
21. -Charged hoses will be closed by taped/bungee cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS starting standby GTG.
24. -CCS watch isolation of EPCC Fuses as briefed.
25. -Muster non-duty section personnel.
26. -Fuses from fuse panels will not be pulled unless actual emergency.  
A tag will be hung indicating fuse was pulled.

OPERATIONAL RISK MANAGEMENT

- IDENTIFY HAZARDS
- ASSESS THE RISKS vs BENIFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

EVOLUTION EVALUATION FORM

ROUTING

ITT LEADER \_\_\_\_\_

TEAM LEADER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT

DATE: \_\_\_\_\_

EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_

WATCHSTATION/ WATCHSTANDER \_\_\_\_\_

EVALUATOR \_\_\_\_\_

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. OTHER PROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. COMMUNICATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. MATERIAL: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. TRAINING TEAM DEFICIENCIES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. RECOMMENDATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDO

FIRE MARSHAL

*[Handwritten signature]*  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

DATE: 9-21-00

DCTT

EVOLUTION/DRILL DESCRIPTION  
WATCHSTATION/ WATCHSTANDER  
EVALUATOR

'A' IN BOSS STORE ROOM 1

WATCH EVALUATION: TRAINING SATISFACTORY UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING SATISFACTORY UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: YOKE NOT SET IN CHAIN LOCKER WHICH CAUSED THE SMOKE FROM SMOKE MACHINE TO SPREAD TO CS OFFICE AND FWD PARTS OF SHIP, PROMPTED ELECTRICIAN TO PUT ON HELMET.
2. OTHER PROCEDURAL DEFICIENCIES NOTED: SPACE NUMBER CALLED INCORRECT OVER IMC. REPAIR V DID NOT HAVE COMPLETE PLOT ON BOARD.
3. COMMUNICATIONS: SAT, GOOD FLOW FROM SCENE TO LOCKER.
4. MATERIAL: 1 BROKEN CLIP ON FF HELMET. (REPAIRED)
5. TRAINING TEAM DEFICIENCIES: NOZZLEMAN DID NOT RECOGNIZE DCTT PROP FOR FIRE CONTAINERS, TRAINED WATCH TEAM ON PROPS.
6. RECOMMENDATIONS: OVERALL GOOD DRILL. TEAM LEADER MADE A THOROUGH SWEEP OF CHAIN LOCKER AFTER REALIZING THAT YOKE NOT SET.

GSMC (SU) ~~\_\_\_\_\_~~

EVOLUTION EVALUATION FORM

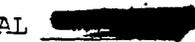
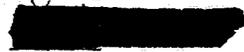
ROUTING

CO

XO

~~CDO~~

FIRE MARSHAL



DATE: 9/26/98

DCTT

EVOLUTION/DRILL DESCRIPTION Flooding SHARP ALLEY  
WATCHSTATION/ WATCHSTANDER AT SEA FIRE PARTY  
EVALUATOR HT (Bu)  C.S.M.C (Bu)   
WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: No Command & Control By OSL. Fire Party was scattered and lacked direction, plotting in CCS incomplete.
2. OTHER PROCEDURAL DEFICIENCIES NOTED: Report to CCS of electrical isolation complete (Electrician needs to tell OSL & CCS).
3. COMMUNICATIONS: 1 MC IN CCS OOC. WIFCOM NOT GOOD.
4. MATERIAL: NA
5. TRAINING TEAM DEFICIENCIES: NONE
6. RECOMMENDATIONS: HAVE MORE FLOODING DRILLS TO ORGANIZE FIRE PARTY.

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDO

FIRE MARSHAL

*[Handwritten signature]*  
*[Redacted]*  
*[Redacted]*

DATE: 28 SEPT 00

DCTT

EVOLUTION/DRILL DESCRIPTION Class "A" fire in General Workshop  
WATCHSTATION/ WATCHSTANDER AT SEA Fire Party  
EVALUATOR Fire Marshal  
WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: NONE

2. OTHER PROCEDURAL DEFICIENCIES NOTED: Fire Party Personnel enroute to repair locker were grabbing SCBA's From Primary Fire Boundary areas

3. COMMUNICATIONS: Great

4. MATERIAL: NONE

5. TRAINING TEAM DEFICIENCIES: NONE

6. RECOMMENDATIONS: NONE

EN

EVOLUTION EVALUATION FORM

XO -  
ACTION FOR DCA IN  
POD NOTES.



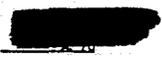
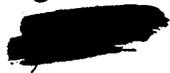
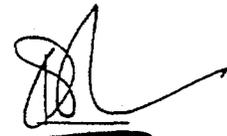
ROUTING

CO

XO

COB

FIRE MARSHAL



DATE: 9/30/00

DCTT

EVOLUTION/DRILL DESCRIPTION CLASS "C" #1 FIREPump Controller  
WATCHSTATION/ WATCHSTANDER AT SEA  
EVALUATOR CSMC (Su) [Redacted] AT (Su) [Redacted]  
WATCH EVALUATION: TRAINING (SATISFACTORY) / UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING (SATISFACTORY) / UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: OOD PASSED WORD IN CORRECTLY. PASSED "CLASS 'C' IN FWD PUMPROOM". SHOULD BE "CLASS 'C' FIRE FWD PUMPROOM IN #1 FIREPump Controller" COMPARTMENT # 4-110-0-E.
2. OTHER PROCEDURAL DEFICIENCIES NOTED: PRIMARY F/F TEAM ARRIVED AT SCBA SCENE W/O SCBA MASKS IN STBY.
3. COMMUNICATIONS: SLOW TO GET WORD FIRE "CONTAINED & FIRE OUT".
4. MATERIAL: REPAIR IF SCBAS RESTORED W/O BEING CHARGED + MASKS MISSING. RLO'S & RLL'S SHOULD MAKE SURE THIS HAPPENS.
5. TRAINING TEAM DEFICIENCIES: NONE NOTED
6. RECOMMENDATIONS: POD NOTE ON RESTORATION & IMPORTANCE OF RE-CHARGING SCBA CYLINDERS AFTER USE. PUT AT 2ND FIRE PARTY DRILL IN POD AS "TBD" AND NOT GIVE SPECIFIC TIME.

DCO

DCTT LDR:

Approved: CO

*Handwritten signature: Kirk L. Supple*

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

Compt 4-174-0-E Noun Name MER 1 Date: 29 SEP 00

1. GENERAL DESCRIPTION: During normal underway operations, a flammable liquid leak/spray is discovered in NR 1 Main Engine Room, resulting in a major class "B" fire. The EOW directs space isolation and initial fire fighting efforts. The ERO/PSM/ARO attempt to combat the fire. The fire is declared out of control and the space is evacuated. Primary HALON is activated which is evaluated as good/bad. If bad, Scene Leader activates reserve HALON which is evaluated as good/bad. The fire party must/does not need to enter the space to combat the fire.

2. OBJECTIVE: Training/Evaluation General Quarters. (ORM Tenet: Supervise)

3. FXP-4 Drill to be conducted during this training period:

- MOB-D-3-SF                   Manning Battle Stations
- MOB-D-9-SF                   Main Space Fire Drill
- MOB-D-11-SF                 Setting Material Condition (Yoke and Zebra)
- MOB-D-23-SF                 Locating DC Fittings

4. The training period will be between TBD.

5. LESSONS LEARNED LAST DRILL: OSL needs to know space layout and establish choke points. Ensure investigators correctly identify halon on release panel. Quickly and correctly establish fire boundaries and report.

6 Lockers will be debriefed at Repair lockers after the DCTT debrief. DCTT debrief will be conducted following the drill in the Wardroom.

7. DCTT/ETT Assignments:

- |                      |       |     |
|----------------------|-------|-----|
| DCCT Leader (DCC)    | LCDR  | (Q) |
| DCC                  | MS1   | (Q) |
| Rover                | GSMC  | (Q) |
| OOD                  | QMC   | (Q) |
| Scene Leader         | DC1   | (Q) |
| Locker Leader        | HMCM  | (Q) |
| #1 Hose              | GMC   | (Q) |
| #2 Hose              | SKC   | (Q) |
| In Space #1          | DC1   | (Q) |
| In Space #2          | SHC   | (Q) |
| Investigators        | MA1   | (Q) |
| Boundrymen           | STGCM | (Q) |
|                      | ENC   | (Q) |
| Electrical Isolation | EMC   | (Q) |
| Mechanical Isolation | HT1   | (Q) |
| AFFF Operator        | PNC   | (Q) |
| Medical              | HMC   | (Q) |
| ETT Leader           | LT    | (Q) |
| SPACE ETT            | GSCS  | (Q) |

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8. SAFETY: (ORM Tenet: Assess risks vs benefits) ETT/DCTT MEMBERS ARE THE PRIMARY SAFETY OBSERVERS. DO NOT ALLOW UNSAFE PRACTICES TO OCCUR. IN THE EVENT A SAFETY HAZARD DOES OCCUR, THE ETT/DCTT MEMBER WILL CORRECT THE SAFETY VIOLATION AND NOTIFY THE ETT/DCTT LEADER OF THE SITUATION. IN THE EVENT OF AN ACTUAL CASUALTY IN THE DRILL AREA, ETT/DCTT WILL PASS THE WORD "ACTUAL CASUALTY" AND INFORM THE ETT/DCTT LEADER OF THE SITUATION. ETT/DCTT WILL ALLOW WATCH STANDERS TO HANDLE THE ACTUAL CASUALTY. IN THE EVENT WATCH STANDERS DO NOT HANDLE THE ACTUAL CASUALTY, THE ETT/DCTT WILL STEP IN AND TAKE CORRECTIVE ACTION. THE ETT/DCTT LEADER WILL DETERMINE WHETHER TO CONTINUE WITH THE DRILL.

9. SAFETY PRECAUTIONS: (ORM Tenet: Implement controls)

- A. Observe personnel dressed out in fire fighting ensembles for signs of heat stress.
- B. Ensure hoses are charged and then secured at the plug and that electrical equipment is not hosed down.
- C. Ensure SCBA cylinders are properly secured when not in use.
- D. No running.
- E. No straddling of hoses.
- F. Two or more people lifting/lowering water tight hatches.
- G. No leaving CO2 or PKP bottles upright untended or unstowed.
- H. No overriding or bypassing safety interlocks.
- I. No loose deck plates, which must have at least two bolts per deck plate.
- J. Ensure personnel wear proper hearing protection.
- K. Ensure personnel remain clear of rotating shafts or machinery.
- L. Do not work on live (energized) electrical equipment without the Commanding Officer's permission and only per NSTM 300.

10. (ORM Tenet: ID Hazards) Safety walk through has been/will be conducted immediately prior to commencing the drill. Safety walk through deficiencies will be corrected before commencing the drill.

11. Heat stress survey to be conducted prior to commencement of drill.

Follow on survey due: \_\_\_\_\_.

12. DCTT Communications: WICS channel ITT1.

## PART I: ETT

SCENARIO: A major fuel leak develops in MER 1 LL (4-174-0-E), AFT/Centerline at the #1A Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge page cutout valve. The leak may be isolated by securing #1A F/O service pump locally or remotely. After the response team has demonstrated the proper initial actions in flushing and covering the fire hazard, DCTT will flash into a fire. The ignition source will be the #1A F/O Service Pump motor.

Method of Imposing Casualty: ETT will initiate drill by giving F/O smell to watch standers.

Method of Imposing Leak: Smell of fuel oil from sample bottle. Spray water from spray bottle and yellow rags to show leak.



PLANT STATUS

PLANT READINESS (MODE)	FULL	SPLIT	TRAIL	AUX	COLD	IRON
GAS TURBINE ENGINES	1A	1B	2A	2B		
GAS TURBINE GENERATORS	1	2	3 // SPLIT	PLANT	PARALLEL	
A/C PLANTS	1	2	3	4		
L/O SERVICE PUMPS	1A	1B	2A	2B		
F/O SERVICE PUMPS	1A	1B	2A	2B		
SEAWATER SERVICE PUMPS	1	2	3	4	5	
FIRE PUMPS	1	2	3	4	5	6
L/O PURIFIERS	1	2				
F/O PURIFIERS/XFR PUMPS	1	2				
HPAC/HPAD'S	# 1 (AUTO / MANUAL)			#2 (AUTO / MANUAL)		
LPAC'S	# 1 (115 / 120 / 125)					
	# 2 (115 / 120 / 125)					
	# 3 (115 / 120 / 125)					
LPAD'S	1	2	3	4		
F/O SERVICE TANK ON SUCTION	1A	1B	2A	2B		

OOE EQUIPMENT: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## PART II: DCTT

### SEQUENCE OF EVENTS:

1. SPACE ETT/DCTT will disclose that the fire is increasing in intensity. The fire will continue to grow to the point that it is out of control and evacuation is necessary.

Method of Imposing: ADVANCE ON WATCHSTANDERS WITH RED AND BLACK RAGS.

2. Upon evacuating the space, watch stander will demonstrate SEED (by reaching for it and shouting out "activating SEED") and don a(n) training EEBD.

NOTE: MECHANICAL ISOLATION DCTT and ELECTRICAL ISOLATION DCTT will check for mechanical and electrical isolation of systems in the space. DCA/Scene Leader will make the decision to electrically isolate space lighting based on space conditions and if HALON bad scenario develops because of watch standers' actions.

Method of Imposition: As Found.

If HALON bad, Team leader/investigators will see Black Smoke/Red Rags. After electrical isolation has been verified by IN SPACE DCTT, Electrical Isolation DCTT will restore lighting to the space.

Electrical isolation will be complete with the following exceptions:

#1 SCU, 1A/1B IECs, IVCS jack boxes/phones, 1MC and 1MC lighting  
Halon indicators

NOTE: After watch standers evacuate the space, ETT/DCTT will check that the following actions are being completed:

- A. Securing of hatch to the space (setting Zebra).
- B. Pulling of emergency trips.
- C. Accounting for evacuees.
- D. Activation of bilge sprinkling.
- E. HALON activated, insure discharge, open bypass if necessary.

NOTE: DCTT will check that watch standers report to CCS.

3. Halon activation/ventilation trip will be disclosed by OSL DCTT manually by operating the sensor when a watch stander activates the system.

Method of Imposing: ACTIVATION OF CO2 BOTTLE PROP. DCTT LIFTING OF PNEUMATIC SWITCHES.

NOTE: HALON may be activated from either the affected space or from the DC Deck. In the event that it is activated from the space, the IN SPACE DCTT will prevent the watch stander from ACTUALLY charging the system and will report to the OSL DCTT so that he can activate alarms.

NOTE: IN SPACE DCTT will check for in space alarm activation (lights, horn) and ventilation shut-down. DCC DCTT check activation and vent shut-down alarms in CCS.

4. Primary HALON activation/discharge will be: (choose)

- \_\_\_\_\_ A. GOOD provided watch stander actions are correct (DC deck access closed and dogged down; all module doors and other fittings open to outside atmosphere are closed). This will be disclosed with a white disk held in view port. Fire party will wait for a minimum 15 minute soak time and then reenter space. If watch stander actions are incorrect, then indicate HALON BAD.
- \_\_\_\_\_ B. BAD is indicated with a black disk by DCTT (this will require Reserve HALON to be activated when determined by OSL). DCTT will disclose to OSL that primary HALON failed due to a ruptured pipe downstream of the time delay. Additionally, if HALON is BAD, no indication of HALON release will be seen on DC Console and outside the affected space after 60 seconds. If reserve HALON is GOOD as disclosed by DCTT, then a white disk will be displayed. Fire Party will wait for a minimum 15 minute soak time and then reenter space.
- xxxxx C. BAD as indicated with a black disk by DCTT. When determined by OSL, reserve HALON will be activated but will be disclosed by DCTT as BAD with no indication on DC Console or on bulkhead outside the affected space after 60 seconds. Fireparty will then enter the space.

Method of Imposing for (BAD): Primary Halon--No lifting of pneumatic switches (bad CO2 Bottle). Reserve Halon--Lifting pneumatic switches but no discharge switch (bad time delay). If watch stander attempts to open bypass valve DCTT will give valve handle to watch stander (broken valve).

NOTE: (GOOD scenario only) If personnel fail to activate HALON or close up the space properly as determined by the DCTT, then HALON will be BAD (DCTT props will change accordingly). The fire party shall enter the space and fight the fire. They should demonstrate their ability in hose handling, team coordination, communication, knowledge of major equipment location, and overhauling the fire.

5. When BOUNDARY DCTT is satisfied with the level of knowledge and proficiency of the fire boundary setters, he will disclose boundaries are hot for bad scenario cool for good.

Method of Imposing: (Bad) Gray BUBBLE WRAP / (Good) as found

6. One investigator will transit down the escape trunk to investigate the status of HALON. The other investigator will remain on the DC Deck. They will report conditions as found to the Scene Leader and Repair Party Leader. Once the smoke and fire boundaries, OOD, Scene Leader and investigators have reported conditions of the fire, the DCA shall make the call that HALON is GOOD/BAD.

Method of Imposing: (BAD) Black disk in view port/ hot boundaries/ black smoke from vents--OOD/ hot door--Scene Leader/ strobe light in L/L view port (GOOD) white disk in view port

7. Scene Leader energizes bilge sprinkling for an additional 2 minutes. At the conclusion of the 2 minute period, the Scene Leader will secure the bilge sprinkling system.

NOTE: AFFF system in re-circulation; watch stander pushes appropriate buttons.

8. #1 HOSE DCTT will prevent #1 plug man from activating AFFF hose reel.
9. #2 HOSE DCTT will remove Inline Eductor hose from AFFF can before charging the hose and secure #2 hose at the FIRE PLUG AFTER #2 HOSE has been charged.
10. SCBA control will be maintained by the DCTT at the SCENE. all Personnel who will actually activate an SCBA.
11. When the team tests the agent, On Scene DCTT will disclose agent check. SAT.

Method of Imposing: AFFF - ZIP LOCK BAG WITH WHITE STYROFOAM PEANUTS.

12. When access man checks hatch for heat, On Scene DCTT will disclose a HOT hatch for bad scenario or cool for good.

Method of Imposing: (BAD) GRAY BUBBLE WRAP/ (GOOD) AS FOUND

13. As the fire party enters the space IN SPACE DCTT will disclose smoke is in the space.

Method of Imposing: Smoke generator

14. When all readily visible flames have disappeared, the team leader will declare "Fire Out, Re-flash Watch Set".

Method of Imposing: RED AND BLACK RAGS BEHIND THE BACK.

15. As the team leader investigates the space for Hot Spots/Hang Fires using the NFTI, IN SPACE DCTT will disclose 1 Hot Spot(s)/Hang Fire(s).

Method of Imposing: canteen with hot water.

16. When Team Leader checks bilge for AFFF coverage. IN SPACE DCTT discloses there is a vapor lock on all bilge surfaces.

Method of Imposing: White sheet laying in bilge

17. When overhaul gear and second hose team enters the space and reaches lower level, the IN SPACE DCTT will disclose the fire is overhauled.

Method of Imposing: Team Leader will instruct hose teams how overhaul will be conducted in space. Overhaul will be complete when all bilge surfaces are vapor secured.

18. DCA orders desmoking procedures for the affected space, IN SPACE DCTT will determine Fire Team's knowledge of desmoking procedures as space is desmoked.

Method of Imposing: DESMOKING OF SPACE USING POSITIVE VENTILATION.

19. Gas Free Petty Officer will calibrate the atmospheric test gear on main deck. He will be questioned by DCTT regarding knowledge of equipment and procedures.

20. Once desmoking is complete, DCTT will stop drill and debrief on station.

21. SYMPTOMS

A. LEAK:

- (1) High bilge level alarm.
- (2) Low tank level alarm.
- (3) Smell of fuel/lube oil in space.
- (4) Flammable liquid in bilge.
- (5) Faulty flange/piping/flex hose/mechanical seal.

B. FIRE:

- (1) Smoke and flames in space.
- (2) Smoke and fire alarms.
- (3) Hot Hatch, Hot Bulkhead.

22. CAUSES

- A. Major lube oil leak.
- B. Major fuel oil leak.
- C. Electrical fire.

23. AUTHORIZED DISCLOSURES:

1. -Lifting of sensor alarms to indicate flooding.
2. -Opening of F/O Unloader By-pass Vlv for loss of F/O pressure.
3. -Spray bottle with yellow rag indicating Fuel Oil/Lube Oil leak.
4. -Yellow rag on deck indicating Fuel Oil/Lube Oil on deck.
5. -Fire out of control: Waving red rag vigorously over head.
6. -Fire contained: Rags waved at waist level.
7. -Fire out: Rags placed behind back.
8. -Halon flooding indications: Activation of appropriate pressure switches.
9. -Dropping AFFF tank level: Using magnet/tape on sight glass.
10. -Hot bulkhead or door disclosed by placing bubble wrap on bulkhead or Door.
11. -Rags placed in bilge for hazard being flushed to bilge.
12. -Alarm indications in CCS.
13. -Halon good indication: No disk/white disk placed at portholes.
14. -Halon bad indication: Black disk placed at portholes.
15. -Zip lock bag with purple rag indicates PKP test satisfactory.
16. -Zip lock bag with white styrofoam peanuts on deck for AFFF hose test.
17. -Tap on PKP bottle for empty bottle.
18. -Apply stickies with handwritten notes to disclose various parameters to CCS/EDO.
19. -Apply strip of masking tape to locks simulated cut.
20. -Desmoking complete, (no actual smoke) removal of black rags on hanger.
21. -AFFF fake activator buttons over actual button covers.
22. -Halon 5LB co2 bottle prop.

23. AUTHORIZED SIMULATIONS: (ORM Tenet: Evaluate control options)

1. -Activation or energizing firefighting equipment as briefed.
2. -Lightoff of SCBAs and EEBDs except as briefed.
3. -Maneuvering the ship to minimize smoke re-ingestion.
4. -Smoke observations by the OOD
5. -Halon 15 min. soak time.
6. -Fuel Oil/Lube Oil leak..
7. -Liquid in bilge.
8. -Smoke & fire symptoms.
9. -Electrical & mechanical isolation as briefed.
10. -Rake will be only overhaul gear item taken into space.
11. -Overhaul of space.
12. -Starting and stopping of engineering equipment, except as authorized by ETT/DCTT.
13. -Breaking of Draeger tubes.
14. -Open Repair Lockers 2, 3, and 5 prior to drill.
15. -Relaxing of FFES and SCBA facepieces once Battle dress sat as briefed.
16. -Food service personnel will continue meal prep if required.
17. -Dewatering procedures.
18. -Cutting locks on spaces containing fire boundaries.
19. -Bolt cutters will be taped over during drill.
20. -Charging hoses as briefed.
21. -Charged hoses will be closed by taped/bungee cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS starting standby GTG.
24. -CCS watch isolation of EPCC Fuses as briefed.
25. -Muster non-duty section personnel.
26. -Fuses from fuse panels will not be pulled unless actual emergency.  
A tag will be hung indicating fuse was pulled.

OPERATIONAL RISK MANAGEMENT

- IDENTIFY HAZARDS
- ASSESS THE RISKS vs BENIFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

EVOLUTION EVALUATION FORM

ROUTING  
 ITT LEADER \_\_\_\_\_  
 TEAM LEADER \_\_\_\_\_  
 EVALUATOR \_\_\_\_\_

ETT/DCTT/CSTT/STT/MTT  
 EVOLUTION/DRILL DESCRIPTION \_\_\_\_\_  
 WATCHSTATION/ WATCHSTANDER \_\_\_\_\_  
 EVALUATOR \_\_\_\_\_

DATE: 29 SEP 80

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY  
 TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. OTHER PROCEDURAL DEFICIENCIES NOTED: \_\_\_\_\_  
 Locked cabinet in CS w/ fuse  
 P. 1  
 Elec. Isolation ? (Two checks)

3. COMMUNICATIONS: *EMD* Missing 2 EVCS headsets in RCS | Overhead complete in PWR  
 SCBA - LIGHT - OFFS IN CREW STATIONS  
 "M/T Checkpoint complete" Overhead complete"

4. MATERIAL: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

5. TRAINING TEAM DEFICIENCIES: M/S in Aux zone via v/b  
 Check surface picture

6. RECOMMENDATIONS: M/S open boundary  
 Timed upper level if past 15 min point

1512 Flo Leak  
 573 EQ  
 577 Cross B fire ~~1517~~  
 578 Main relay →  
 Motor not effctd (1521) - 4 min  
 20 Zebra MAR  
 Mech Isolation - Phase I - 5 min  
 Elec Isolation - Phase I  
 1532 E/S - 7 min  
 ... to other space

} SCBA sec light off? 1522  
 H.T. 1528  
 1535 Entered space  
 (18 min after fire)  
 #  
 1553(4) M/T (Checkpoint complete)  
 (19 min in space)



EVOLUTION EVALUATION FORM

ROUTING

CO

XO

~~CDO~~

FIRE MARSHAL

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~~\_\_\_\_\_~~

DATE: 9/26/98

DCTT

EVOLUTION/DRILL DESCRIPTION Flooding SHAPT MILEY  
WATCHSTATION/ WATCHSTANDER AT SEA FIRE PARTY  
EVALUATOR HT (Bu) \_\_\_\_\_ CSMC (Bu) \_\_\_\_\_  
WATCH EVALUATION: TRAINING /SATISFACTORY/ UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING /SATISFACTORY/ UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: No Command & Control by OSL. Fire Party was scattered and lacked direction, plotting in CCS incomplete.

2. OTHER PROCEDURAL DEFICIENCIES NOTED: Report to CCS of electrical isolation complete (Electrician needs to tell OSL & CCS)

3. COMMUNICATIONS: IME IN CCS OOC. WIFCOM NOT GOOD. <sup>EMU?</sup>

4. MATERIAL: NA

5. TRAINING TEAM DEFICIENCIES: NONE

6. RECOMMENDATIONS: HAVE MORE FLOODING DRILLS TO ORGANIZE REPAIR PARTY.

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDO

FIRE MARSHAL

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*[Redacted]*

DATE: 28 SEPT 00

DCTT

EVOLUTION/DRILL DESCRIPTION Class "A" fire in General Workshop

WATCHSTATION/ WATCHSTANDER AT SEA Fire Party

EVALUATOR Fire Marshal

WATCH EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

TRAINING TEAM EVALUATION: TRAINING/SATISFACTORY/UNSATISFACTORY

EVALUATOR

1. CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: NONE

2. OTHER PROCEDURAL DEFICIENCIES NOTED: Fire Party Personnel enroute to repair locker were grabbing SCBA's from primary fire boundary areas

3. COMMUNICATIONS: Great

4. MATERIAL: NONE

5. TRAINING TEAM DEFICIENCIES: NONE

6. RECOMMENDATIONS: NONE

ENG

EVOLUTION EVALUATION FORM

XO - ACTION FOR DCA IN POD NOTES.

ROUTING

CO

XO

EBO

FIRE MARSHAL

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DATE: 9/30/00

DCTT

EVOLUTION/DRILL DESCRIPTION CLASS "C" #1 FIREPump Controller  
WATCHSTATION/ WATCHSTANDER AT SEA  
EVALUATOR CSME (SW) [redacted] & HT (SW) [redacted]  
WATCH EVALUATION: TRAINING (SATISFACTORY) UNSATISFACTORY  
TRAINING TEAM EVALUATION: TRAINING (SATISFACTORY) UNSATISFACTORY

EVALUATOR

- CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: OOD PASSED WORD IN CORRECTLY PASSED "CLASS 'C' IN FWD Pumproom". SHOULD BE "CLASS 'C' FIRE FWD Pumproom IN #1 FIREPump Controller" compartment # 4-110-0-E.
- OTHER PROCEDURAL DEFICIENCIES NOTED: PRIMARY FIF TEAM ARRIVED AT SCBA SINK W/ SCBA MASKS IN STRY ✓
- COMMUNICATIONS: SLOW TO GET WORD FIRE "CONTAINED" + FIRE OUT.
- MATERIAL: REPAIR # SCBA'S RESTOWED W/ BEING CHARGED + MASKS MISSING, RLG'S & RLL'S SHOULD MAKE SURE THIS HAPPENS. ✓
- TRAINING TEAM DEFICIENCIES: NONE NOTED
- RECOMMENDATIONS: POD NOTE ON RESTORATION & IMPORTANCE OF RE-CHARGING SCBA CYLINDERS AFTER USE. PUT AT THE END OF PARTY DRILL IN POD AS "TBD" AND NOT GIVE SPECIFIC TIME.