

UNCLASSIFIED

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	HMCN	(Q)
Repair 2 Locker	PNC	(Q)
Repair 2 External Monitor	SKC	(Q)
Repair 2 Internal Monitor	GMC	(Q)
Repair 3 locker	BT1	(Q)
Repair 3 External Monitor	MAL	(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)

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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.

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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-2, 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 every other 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.

incomplete M8/M9 paper

Appl. the water bill sheet 2 bodies

DCTT check 1727

Simulators no monitors - 2000 suits

*2880
2885
2885
0850
0930
0930
0915 GQ*

Rep 3 Training

*0825
0930
1/4 C
Summary
new
by
monitoring
will
red paper*

QMC

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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.

DCTT ACTION - DCTT verify routes. Disclose Blister agent at FWD Station 3 and AFT Station 3 to Monitors (Use training M-256).

front door
4/15
Rep 2 scrub
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 BENEFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

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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: _____

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CA: 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)

The training period will be between TBD.

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-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	MS1	(Q) (U/I)
OOD	QM1	(Q)
Repair 2 Leader/1kr./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	STGEM	(Q)
Repair 5 Rover	HMCN	(U/I)
Repair 5 Scene	GSCS	(Q)
Repair 5 Invest	ISI	(Q)
Repair 5	GSEC	(U/I)
Repiar 5	MA1	(Q)
Medical	HMC	(Q)
Medical	HN	(U/I)

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, 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

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3. 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 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.
- Overhaul of space.
- Breaking of Draeger tubes.
- Relaxing of PFEs and SCBA facepieces once Battle dress SAT, as briefed.
- 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. -AAA - Metal plate
- L. -Sagging Overhead - White Sheet

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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)

Rep 2

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

T- +35

T- +75 Debrief on station.

T- +80 Set yoke restow all gear.

T- +90 Secure from GQ.

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OPERATIONAL RISK MANAGEMENT

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

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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>S</u> COLOR 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 Asputation / 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
<u>PROPS / REMARKS</u> SAG - Plastic SMOKE - Machine FIRE - Rag HOLE - Plastic R/PIPE - Plastic C/D - Picture	<u>PROPS / REMARKS</u> PANT - Plastic SMOKE - machine FIRE - Rag HOLE - Plastic R/PIPE - Plastic C/D - Picture	<u>PROPS / REMARKS</u> Fire - Rags Smoke - Rags H/J - Bubble Wrap
<u>DTT</u> Noted on Brief	<u>DCTT</u> As Noted on Brief	<u>DCTT</u> As Noted on Brief

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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: _____

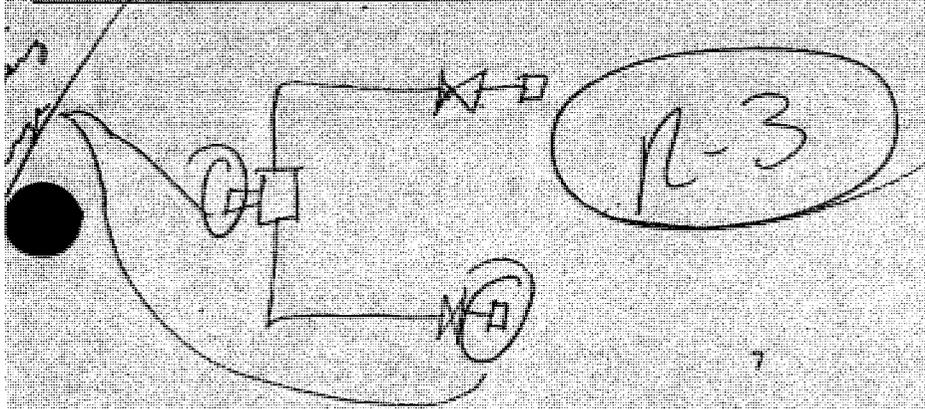
2. OTHER PROCEDURAL DEFICIENCIES NOTED: _____

COMMUNICATIONS: _____

4. MATERIAL: *A-3, Race's Clanging Hose, missing O-rings, (change to pump and change the end)*

5. TRAINING TEAM DEFICIENCIES: _____

6. RECOMMENDATIONS: _____



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DCTT LDR

Approved: CO

Kind / Supp

USS COLE (DDG 67)

DCTT BRIEF

MAIN SPACE FIRE DRILL (U/W)

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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 EOOD 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: 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	QMI	(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/s iraq
Boundrymen	STGC	(Q)
Electrical Isolation	EMC	(Q)
Mechanical Isolation	HT1	(Q)
BACS	ENC	(Q)
AFFF Operator	PNC	(Q)
Medical	HMC	(Q)

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ETT Leader
SPACE ETT

LT
GSCS

(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 gage cutout valve. The leak may be isolated locally in MER 2 LL by securing #2A^BF/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^BF/O Service Pump motor.

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

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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: NONE

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 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	IMC and IMC 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)

- XXXX 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 - EIP 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 NPTI, 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 SCEAs 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 PFEs 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/bunges cord by DCTT (actual casualty removed.)
22. -Setting positive and negative ventilation.
23. -CCS watch isolation of 2S-1S BTB (AUX 1) as briefed.
24. -CCS watch isolation of 1S-2S BTB (MER 2) as briefed.
25. -CCS starting standby GTG.
26. -CCS watch isolation of EPCC Fuses as briefed.
27. -Muster non-duty section personnel.
28. -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 _____

DATE: _____

ETT/DCTT/CSTT/STT/MTT
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: _____

Debrief:

- 1. ETT
- 2. In space #1
- 3. In space #2
- 4. On scene
- 5. #1 hose
- 6. #2 hose

- 7. DC Central
- 8. Investigators
- 9. OOD
- 10. SCBA BACS
- 11. AFFF station
- 12. Mechanical Iso

- 13. Electrical Iso
- 14. Boundries
- 15. Repair 5
- 16. ETT Leader
- 17. DCTT Leader

DCTT LDR: [REDACTED]

Approved: *[Signature]*

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.

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.

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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	HMCN	(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)

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 FORM 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 DCTT Leader when complete.

12. DCTT Communications: WICS CHANNEL ITT2

Dctt

Report Back

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13. 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 causalty 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/I - BUBBLE RAP
- D. -B - 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. -REL - Stick w/rag
- J. -C - Strobe light
- K. - $\Delta\Delta\Delta$ - Metal plate
- L. -Sagging Overhead - White Sheet
- M. -Buckling Bulkhead - plastic prop.

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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.

hatch safety

*Electrical
Shock in
OIC*

O-rings for SCBA recharging stations

ons of gear adrift

T- +35

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)

Rep 3

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

T- +75

Debrief on station.

T- +80

Set yoke restow all gear.

T- +90

Secure from GQ.

*Rep 5 split / help
342*

Smoke generator

OPERATIONAL RISK MANAGEMENT

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

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SS COLE DDG-67

BATTLE DAMAGE

DATE

REPAIR 2 MISSILE	REPAIR 3 MISSILE	REPAIR 5
EL COMPT. # 2-78-1-L Berthing #1	A COMPT. # 2-300-1-L Berthing #3	
PEL 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	
	E Access Person COMPT # 2-300-1-L Repair 3 Compound Fracture/Broke Jaw	
FLB SF 50 PF 78 PA 126 SA 174	EB 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

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EVOLUTION EVALUATION FORM

ROUTING
ITF LEADER _____
TEAM LEADER _____
EVALUATOR _____

ETT/DCIT/CSTI/SIT/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: _____

5. TRAINING TEAM DEFICIENCIES: _____

6. RECOMMENDATIONS: _____

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UNCLASSIFIED

DCO

DCTT LDR:

Approved: C

[Handwritten Signature]

USS COLE (DDG 67)
DCTT BRIEF
MAIN SPACE FIRE DRILL (U/W)

Compt 4-174-0-E Noun Name MER 1 Date: 26 Aug 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/ARD 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

*2 Aug 2 also Grandmaster
3 have team
relat*

4. The training period will be between TBD.

work at demanding

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) (U/I) |
| Rover | GSMC | (Q) |
| GOD | QM1 | (Q) |
| Scene Leader | DC1 | (Q) |
| #1 Hose | GMC | (Q) |
| #2 Hose | SKC | (Q) |
| In Space #1 | DC1 | (Q) |
| In Space #2 | SH1 | (Q) |
| Investigators | GSEC | (U/I) |
| Boundrymen | IS1 | (Q) |
| Electrical Isolation | FCC | (U/I) |
| Mechanical Isolation | STGM | (Q) |
| BACS | MA1 | (Q) |
| AFFF Operator | EMC | (Q) |
| Medical | HT1 | (Q) |
| ETT Leader | ENC | (Q) |
| SPACE ETT | PNC | (Q) |
| | HMC | (Q) |
| | LT | (Q) |
| | 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. V/A

Follow on survey due: N/A

12. DCTT Communications: WICS channel ITT1.

PART I: ETT

SCENARIO: A major fuel leak develops in ME 1 LL (4-174-0-E), AFT/Centerline at the #1A Fuel Oil Service Pump (36/72 gpm @ 105 psi) inlet to the discharge gage 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.

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PLANT STATUS

PLANT READINESS (MODE)	FULL SPLIT TRAIL AUX COLD IRON					
	1A	1B	2A	2B		
GAS TURBINE ENGINES						
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		

GOC EQUIPMENT: _____

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 BAGS.

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:

- #1 SCU, 1A/1B IECs, IVCS jack boxes/phones, IMC and IMC 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.

UNCLASSIFIED

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

XXXX 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.

UNCLASSIFIED

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 NFTL, 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.

UNCLASSIFIED

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. -Deasmoking 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.

CLASSIFIED

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 FFBs 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. -Master 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 BENEFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

Encl (131)
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UNCLAS

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: lost mail of AETT

• Evaluation procedure

• STT coming in flight

• Situation of rig

3. COMMUNICATIONS: 2nd

Spoke leader on line

came from back leader to Rep 2

Spoke in flight

4. MATERIAL: water for Rep 2

lost mail on 3 SW/SP

5. TRAINING TEAM DEFICIENCIES: > Check it

Recommendation to make instruction

6. RECOMMENDATIONS: No Repair cases. evaluation with plates on

UX Models may effectively

Work by 2 last Run

via Rep 3

2. Ranking of the thing

to need instruction?

still no instructions of

right way?

1841 - 60

1842 - (as) 1

UNCLASSIFIED

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDO

FIRE MARSHAL,

[Handwritten signature]
[Redacted]

DATE: 9-21-69

DCTT

EVOLUTION/DRILL DESCRIPTION "A" IN BOSS STORE ROOM 1
WATCHSTATION/ WATCHSTANDER _____
EVALUATOR GSMC (SW) & DC (SW)
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 CONTAINED, 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 (SW)

[Redacted signature]

UNCLASSIFIED

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDU

FIRE MARSHAL

[Handwritten signature]

[Redacted]

[Redacted]

DATE: 9/26/99

DCTT

EVOLUTION/DRILL DESCRIPTION: Flooding SMART ALLEY
WATCHSTATION/ WATCHSTANDER: AT SEA FIRE PARTY
EVALUATOR: HT (EW) CSATC (EW)
WATCH EVALUATION: TR (SATISFACTORY) (SATISFACTORY)
TRAINING TEAM EVALUATION: TRAINING (SATISFACTORY) (UNSATISFACTORY)

EVALUATOR

- CONTRARY TO COLE DIRECTIVES/INSTRUCTIONS: No Command & Control by OSL. Fire party was scattered and lacked direction. Plotting in CCS incomplete.
- OTHER PROCEDURAL DEFICIENCIES NOTED: Report to CCS if electrical isolation complete (Necessity areas to tell OSL & CCS)
- COMMUNICATIONS: 1 MOC IN CCS OOC WIPCOM NOT GOOD ENV?
- MATERIAL: NA
- TRAINING TEAM DEFICIENCIES: NONE
- RECOMMENDATIONS: Have more Flooding drills to organize Repair Party.

EVOLUTION EVALUATION FORM

ROUTING

CO

XO

CDO

FIRE MARSHAL

[Handwritten signature]

DATE: 28 SEPT 90

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

UNCLASSIFIED

Handwritten signature

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 I Date: 2/15/00

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 (Yeke 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	HMCN	(Q)
#1 Hose	GMC	(Q)
#2 Hose	SKC	(Q)
In Space #1	DC1	(Q)
In Space #2	SHC	(Q)
Investigators	MAL	(Q)
Boundrymen	STGCM	(Q)
	ENC	(Q)
Electrical Isolation	EMC	(Q)
Mechanical Isolation	HT1	(Q)
AFFF Operator	PNC	(Q)
Medical	HMC	(Q)
ETT Leader	LT1	(Q)
SPACE ETT	GSCS	(Q)

EVOLUTION EVALUATION FORM

ROUTING

XO -
ACTION FOR DCA IN
POD NOTES.

CO

XO

CBO

FIRE MARSHAL

DATE: 9/30/00

DCTT

EVOLUTION/DRILL DESCRIPTION: CLASS "C" #1 FIRE PUMP Controller
WATCHSTATION/ WATCHSTANDER: AT SEA
EVALUATOR: CSAC (Su) [Signature]
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 FIRE PUMP. SHOULD BE CLASS "C" FIRE PUMP PROGRAM IN "FI FIRE PUMP Controller" COMPARTMENT AT 4-110-D-E.
2. OTHER PROCEDURAL DEFICIENCIES NOTED: PRIMARY FIRE TEAM ARRIVED AT SCENE W/O SCBA MASKS IN STEAD. ✓
3. COMMUNICATIONS: SLOW TO GET WORD FIRE "CONTINUED" & "FIRE OUT".
4. MATERIAL: REPAIR TO SCBA'S. RESTORED W/O BEING CHARGED + MASKS MISSING. RLO'S & RL'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 SEA FIRE PARTY DRILL IN POD AS "TBD" AND NOT GIVE SPECIFIC TIME.

EVOLUTION EVALUATION FORM

ROUTING
ITT LEADER _____
TEAM LEADER _____
EVALUATOR _____

ETT/DETT/GSTT/STT/MTT _____
EVOLUTION/DRILL DESCRIPTION _____
WATCHSTATION/ WATCHSTANDER _____
EVALUATOR _____

DATE: _____

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: _____

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 gage 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.



ED

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 SCO ,1A/1B IECs, IVCS jack boxes/phones, IMC and IMC 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 NRTL, 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 P/O Unloader By-pass Vlv for loss of P/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. -Demoking 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.

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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 BENEFITS
- EVALUATE CONTROL OPTIONS
- SUPERVISE

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