

GF REPORTS AND RECORDS

LT 7.8



SERIAL # _____ NAVY GAS FREE CERTIFICATION AND TEST LOG

INITIAL CERTIFICATION			TEST RESULTS																
SHIP/UNIT/ACTIVITY: _____ ITEM/COMPARTMENT/SPACE: _____ TYPE OF OPERATION TO BE CONDUCTED: _____ INITIAL DATE OF TEST: HOUR: _____ DATE: _____ INITIAL EXPIRATION: HOUR: _____ DATE: _____ VENTILATION REQUIRED: YES NO TYPE: _____ _____ _____ INERTED GAS: _____ (gas) OR PRESSED UP WITH: _____ (liquid) REQUIREMENTS/CONCLUSIONS/PREScribed PRECAUTIONS/INSTRUCTIONS: _____ _____ _____			TESTS CONDUCTED AS REQUIRED OXYGEN COMBUSTIBLE GAS TOXIC TYPE: TOXIC TYPE: TOXIC TYPE: TOXIC TYPE:		INITIAL TEST 1ST RETEST 2ND RETEST	INITIAL TEST 1ST RETEST 2ND RETEST	INITIAL TEST 1ST RETEST 2ND RETEST												
GAS FREE RELATED HOT WORK POS QUALIFIED FIRE WATCHES ASSIGNED <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">LOCATIONS</th> <th style="width:35%;">PRINT NAME/RATE</th> <th style="width:50%;">SIGNATURE* (UPON COMPLETION)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> TIME SECURED _____ <small>*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH. I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.</small> HOT WORK OPERATOR SIGNATURE _____ HOT WORK SUPERVISOR _____ FIRE MARSHAL _____			LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)										EXISTING CONDITIONS NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK SAFE FOR PERSONNEL/ SAFE FOR HOT WORK NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE		INITIAL TEST 1ST RETEST 2ND RETEST	INITIAL TEST 1ST RETEST 2ND RETEST	INITIAL TEST 1ST RETEST 2ND RETEST
LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)																	
NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED. GFE PERSONNEL SIGNATURE _____ CO SIGNATURE, if required _____			RECERTIFICATION																
1ST RETEST/UPDATE TIME: _____ DATE: _____ EXPIRES: _____ GFE PERSONNEL SIGNATURE _____ 2ND RETEST/UPDATE TIME: _____ DATE: _____ EXPIRES: _____ GFE PERSONNEL SIGNATURE _____																			



Enabling Objectives

- Describe the purpose and function of:
 - Closed Compartment Opening Request
 - Hot Work Request
 - Navy Gas Free Certificate and Test Log
 - National Fire Protection Association (NFPA) Gas Free Certificate



Enabling Objectives cont'd



- Complete the following:
 - Closed Compartment Opening Request
 - Hot Work Request
 - Navy Gas Free Certificates and Test Log
- Describe:
 - What forms may be use by the NFPA Marine Chemists or Competent Person



Enabling Objectives cont'd



- Describe the criteria for assigning each of the following on a Gas Free Certificate:
 - Not Safe for Personnel/Not Safe for Hot Work
 - Not Safe for Personnel w/o PPE/Not Safe for Hot Work
 - Safe for Personnel/Safe for Hot Work
 - Not Safe for Personnel Inside/Safe for Hot Work Outside



Last Enabling Objective

- Describe:
 - Distribution requirements for completed Navy Gas Free Certificates





Please take out your
NSTM 074 VOL 3 and
find Appendix C



Gas Free Engineering Notebook

- Contains:
 - Ship's Gas Free Inst.
 - **Active Gas Free Chits**
 - **Inactive Gas Free Chits**
 - 1 year



Navy Reports and Records



- Navy:

- Closed Compartment Opening Request
- Hot Work Authorization
- Navy Gas Free Certificate

*Should be Included as Enclosures in a GFE

Instruction, Available in Gas Free Log,
Readily Available



Civilian Reports and Records

- Civilian:
 - NFPA Gas Free Certificate
 - OSHA - 74 Form
 - Gas Free Tags



Closed Compartment Opening Request

- Pg C-13 or C-29
- Can be Locally Produced
- GFE Management Tool
- Initial Info and Planning for Gas Free Test

Should be Submitted **AT LEAST 24 HRS** Prior to Evolution



Closed Compartment or Space

- Any Space not well Ventilated
 - Storerooms
 - Double Bottoms
- Spaces which Have Been...
 - Vacated
 - Closed
 - Sealed



CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: _____ DIVISION OFFICER EXT. _____
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: _____

2. MISCELLANEOUS REQUIRMENTS:

3. TOXIC MATERIALS TO BE USED: _____

4. TIME/DATE TO BE OPENED: _____

5. TIME/DATE TO BE CLOSED: _____

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE:

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
_____.

1. APPROVED/DISAPPROVED: _____
_____.

2. REASON FOR ENTRY: _____
_____.

2. MISCELLANEOUS REQUIRMENTS: _____
_____.

3. TOXIC MATERIALS TO BE USED: _____
_____.

4. TIME/DATE TO BE OPENED: _____.

5. TIME/DATE TO BE CLOSED: _____.

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE

_____.

3. NOTES:
(A) NO ENTRY OR HOT WORK IS
AUTHORIZED UNTIL SPACE HAS
BEEN INSPECTED AND CERTIFIED
BY GAS FREE ENGINEER OR A
DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

_____.

DIVISION OFFICER

GAS FREE ENGINEER

CLOSED COMPARTMENT OPENING REQUEST

USS _____
(_____)

SERIAL NUMBER: 98-00001

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

ENDORSEMENT

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: _____

2. MISCELLANEOUS REQUIRMENTS: _____

3. TOXIC MATERIALS TO BE USED: _____

4. TIME/DATE TO BE OPENED: _____

5. TIME/DATE TO BE CLOSED: _____

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE

3. NOTES:
(A) NO ENTRY OR HOT WORK IS
AUTHORIZED UNTIL SPACE HAS
BEEN INSPECTED AND CERTIFIED
BY GAS FREE ENGINEER OR A
DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

Compartment to be Opened



Allows GFE to Evaluate Whether Authority is Needed (IDLH)

Allows GFE to Research Previous Inspections of that Compartment



CLOSED COMPARTMENT OPENING REQUEST

USS _____
(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: **CLEAN/INSPECT**

2. MISCELLANEOUS REQUIRMENTS: _____

3. TOXIC MATERIALS TO BE USED: _____

4. TIME/DATE TO BE OPENED: _____

5. TIME/DATE TO BE CLOSED: _____

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

Reason for Entry

- Allows GFE to Prioritize by Event
- Ensures GFE Knows Exactly what is Going to be Taking Place in Space
 - Events that can Change Atmospheric Conditions



CLOSED COMPARTMENT OPENING REQUEST

USS _____
(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: ***CLEAN/INSPECT***

2. MISCELLANEOUS REQUIRMENTS:

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: _____

5. TIME/DATE TO BE CLOSED: _____

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE

3. NOTES:
(A) NO ENTRY OR HOT WORK IS
AUTHORIZED UNTIL SPACE HAS
BEEN INSPECTED AND CERTIFIED
BY GAS FREE ENGINEER OR A
DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

Toxic Materials to be Used

- **Allows GFE to Determine Respirator and Ventilation Requirements**
- **Allows GFE to Preplan for Re-testing**
- **Assists in Determination of Re-test Periodicity**
- **GFE Screen Illegal Materials**



CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: CLEAN/INSPECT

2. MISCELLANEOUS REQUIRMENTS: _____

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: 0900 26JAN2004

5. TIME/DATE TO BE CLOSED: 0900 27JAN2004

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE _____

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK: _____

DIVISION OFFICER

GAS FREE ENGINEER

Time and Date Opened/Closed

- Needed to Establish Retest Schedule (max 8 hours)
- Allows for Efficient Management of Time and Resources



CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: CLEAN

2. MISCELLANEOUS REQUIRMENTS: _____

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: 0900 27JAN2004

5. TIME/DATE TO BE CLOSED: 0900 26JAN2004

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE
BM3 DUGAN
SN BLUTARSKI

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: _____
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

Names and Rates of Personnel to Enter

- Allows GFE to Check Personnel on Equipment Knowledge (Respiratory and Ventilation)
- Ensure Responsible Person is in Charge



CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: CLEAN

2. MISCELLANEOUS REQUIRMENTS: _____

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: 0900 26JAN2004

5. TIME/DATE TO BE CLOSED: 0900 27JAN2004

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE
BM3 DUGAN
SN BLUTARSKI

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: **BM2 CISNEROS**
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:

DIVISION OFFICER

GAS FREE ENGINEER

Safety Observer

- Not Optional
- Included in all Operational Briefs
- Will Maintain Comms between Scene and Rescue Control Point



CLOSED COMPARTMENT OPENING REQUEST

USS _____

(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: _____ DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: _____
CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: CLEAN

2. MISCELLANEOUS REQUIRMENTS:

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: 0900 26JAN2004

5. TIME/DATE TO BE CLOSED: 0900 27JAN2004

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE
BM3 DUGAN
SN BLUTARSKI

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: BM2 CISNEROS
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:
ANCHOR WINDLASS

DIVISION OFFICER

GAS FREE ENGINEER

Tag outs

- Ensures Space is Safe and Prepared for Entry
- Allows GFE to Spot Check



CLOSED COMPARTMENT OPENING REQUEST

USS _____
(_____)

ENDORSEMENT

FROM: Deck DIVISION OFFICER EXT. 200
TO: GAS FREE ENGINEER
VIA: CHIEF ENGINEER

FROM: GAS FREE ENGINEER
TO: Deck DIVISION OFFICER

1. PERMISSION IS REQUESTED TO ENTER: CHAIN LOCKER

1. APPROVED/DISAPPROVED: _____

2. REASON FOR ENTRY: CLEAN/INSPECT

2. MISCELLANEOUS REQUIRMENTS:
VENTILATE 24 HOURS PRIOR TO ENTRY

3. TOXIC MATERIALS TO BE USED:
ETHYLENE GLYCOL

4. TIME/DATE TO BE OPENED: 0900 26 JAN 2004

5. TIME/DATE TO BE CLOSED: 0900 27 JAN 2004

6. NAMES AND RATES OF PERSONNEL TO ENTER SPACE
BM3 DUGAN
SN BLUTARSKI

3. NOTES:
(A) NO ENTRY OR HOT WORK IS AUTHORIZED UNTIL SPACE HAS BEEN INSPECTED AND CERTIFIED BY GAS FREE ENGINEER OR A DESIGNATED ASSISTANT.

7. SAFETY OBSERVER AT ACCESS: BM2 CISNEROS
(NAME AND RATE)

8. TAGOUTS REQUIRED TO SUPPORT WORK:
ANCHOR WINDLASS

DIVISION OFFICER

GAS FREE ENGINEER

Hot Work Authorization Request

- Allows Divisions to Request Hot Work Services
- Management Tool to Optimize Use of Time, Personnel and Resources
- Hot Work Certificates:
 - Page C-16
 - Gas Free Certificate
 - Locally Prepared



HOT WORK AUTHORIZATION REQUEST

FROM: HOT WORK SUPERVISOR
TO: GAS FREE ENGINEER

DATE: 22 JAN 04

1. IT IS REQUESTED THAT AUTHORIZATION BE GRANTED TO PERFORM WELDING/BURNING ON BUNKS IN COMPARTMENT 1-118-0-L FROM 0800 24 JAN 04 TO 1600 24 JAN 04.
(date and time) (date and time)

2. FIRE WATCHES ASSIGNED: FN TIMMY (NAME AND RATE)
EN3 SHMUCKATELLI (NAME AND RATE)
GSEFN ANDERSON (NAME AND RATE)

3. HOT WORK OPERATOR ASSIGNED: HT2 WATTS (NAME AND RATE)

4. I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL THE SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.

Nathan W. Watts HT2
HOT WORK OPERATOR

Russell S. King, HT1
HOT WORK SUPERVISOR

THE LOCATION WHERE THIS WORK IS TO BE DONE HAS BEEN INSPECTED, NECESSARY PRECAUTIONS HAVE BEEN TAKEN AND PERMISSION HAS BEEN GRANTED FOR THIS WORK.

PERMIT EXPIRES: 1600 24 JAN 04
(Time and date)

SPECIAL PRECAUTIONS:

GAS FREE ENGINEER/FIRE MARSHALL

FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

TIME SECURED: 1430 24 JAN 04 FN Timmy
EN3 Shmuckatelli GSEFN Anderson
FIRE WATCH(S)

Navy Gas Free Certification and Test Log



- Records the Conditions Existing within a Space at Time Test is Conducted
- Intended to Eliminate Need for Hot Work Request Form
- Available Through Stock System
 - **OPNAV 5100/16(5-91)**
 - **Stock #: 0107-LF-0011-7400**



INITIAL CERTIFICATION

SHIP/UNIT/ACTIVITY: _____

ITEM/COMPARTMENT/SPACE: _____

TYPE OF OPERATION TO BE CONDUCTED: _____

INITIAL DATE OF TEST: HOUR: _____ DATE: _____

INITIAL EXPIRATION: HOUR: _____ DATE: _____

VENTILATION REQUIRED: YES NO

TYPE: _____

INERTED GAS: _____ (gas)

OR

PRESSED UP WITH: _____ (liquid)

REQUIREMENTS/CONCLUSIONS/PREScribed PRECAUTIONS/INSTRUCTIONS:

TEST RESULTS			
TESTS CONDUCTED AS REQUIRED	INITIAL TEST	1ST RETEST	2ND RETEST
OXYGEN			
COMBUSTIBLE GAS			
TOXIC TYPE:			
TOXIC TYPE:			
TOXIC TYPE:			
TOXIC TYPE:			
EXISTING CONDITIONS			
INITIAL TEST	1ST RETEST	2ND RETEST	
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK			
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE			

GAS FREE RELATED HOT WORK

PQS QUALIFIED FIRE WATCHES ASSIGNED

LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)
_____	_____	_____
_____	_____	_____

TIME SECURED _____

*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.

HOT WORK OPERATOR SIGNATURE _____

HOT WORK SUPERVISOR _____

FIRE MARSHAL _____

NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED.

GFE PERSONNEL SIGNATURE _____

CO SIGNATURE, if required _____

RECERTIFICATION

1ST RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

2ND RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

SERIAL # 98-00001

INITIAL CERTIFICATE

SHIP/UNIT/ACTIVITY: USS NAVIN R. JOHNSON

ITEM/COMPARTMENT/SPACE: CHAIN LOCKER (

TYPE OF OPERATION TO BE CONDUCTED: CLEAN

INITIAL DATE OF TEST: HOUR: 300

INITIAL EXPIRATION: HOUR: 2100

VENTILATION REQUIRED: YES

TYPE: DILUTION - 1 RAINFAN EXHAUS

THROUGH WTD 4-92-1 TO WEATHER

OPERATION WHILE PERSONNEL IN

INERTED GAS: _____

OR N/A

PRESSED UP WITH: _____

REQUIREMENTS/CONCLUSIONS/PRESCRIBED PREC.

ALL PERSONNEL USE RHINE AIR PU

ALLS. RE-INSPECT EVERY TWO HO

OBSERVER MAINTAIN COMMS WITH

RESCUE CONTROL POINT USING W

3 Ventilation Options:

Local Exhaust Ventilation:

Ex.: Welding,

Painting,

Using Solvents

Dilution Ventilation

Ex.: Reducing Toxins,

Controlling Flammable Vapors

General Exhaust Ventilation

*Ex.: Providing Cool Comfort Air in
a Hazard-Free Atmosphere*

SERIAL # 98-00001

INITIAL CERTIFICATE

SHIP/UNIT/ACTIVITY: USS NAVIN R. JOHNSON

ITEM/COMPARTMENT/SPACE: CHAIN LOCKER (

TYPE OF OPERATION TO BE CONDUCTED: CLEAN

INITIAL DATE OF TEST: HOUR: 1300

INITIAL EXPIRATION: HOUR: 2100

VENTILATION REQUIRED: YES

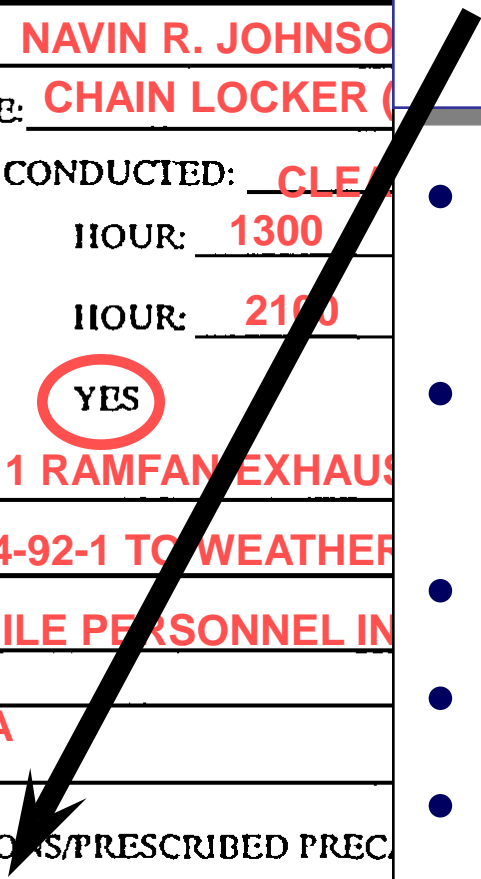
TYPE: DILUTION - 1 RAMFAN EXHAUST
THROUGH WTD 4-92-1 TO WEATHER
OPERATION WHILE PERSONNEL IN

INERTED GAS: _____
OR
PRESSED UP WITH: N/A

REQUIREMENTS/CONCLUSIONS/PREScribed PROC.
ALL PERSONNEL USE RHINE AIR PUR
ALLS. RE-INSPECT EVERY TWO HO
OBSERVER MAINTAIN COMMS WITH
RESCUE CONTROL POINT USING W

REQUIREMENTS/ CONCLUSIONS

- Observe "2 Person Rule"
- Personal Protective Equipment
- Respiratory Equipment
- Rescue Control Point
- Communications Requirements
- Continuous or Periodic Testing



INITIAL CERTIFICATION

SHIP/UNIT/ACTIVITY: _____

ITEM/COMPARTMENT/SPACE: _____

TYPE OF OPERATION TO BE CONDUCTED: _____

INITIAL DATE OF TEST: HOUR: _____ DATE: _____

INITIAL EXPIRATION: HOUR: _____ DATE: _____

VENTILATION REQUIRED: YES NO

TYPE: _____

INERTED GAS: _____ (gas)

OR

PRESSED UP WITH: _____ (liquid)

REQUIREMENTS/CONCLUSIONS/PREScribed PRECAUTIONS/INSTRUCTIONS:

TEST RESULTS			
TESTS CONDUCTED AS REQUIRED	INITIAL TEST	1ST RETEST	2ND RETEST
OXYGEN			
COMBUSTIBLE GAS			
TOXIC TYPE:			
TOXIC TYPE:			
TOXIC TYPE:			
TOXIC TYPE:			
EXISTING CONDITIONS			
EXISTING CONDITIONS	INITIAL TEST	1ST RETEST	2ND RETEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK			
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE			

GAS FREE RELATED HOT WORK

PQS QUALIFIED FIRE WATCHES ASSIGNED

LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)
_____	_____	_____
_____	_____	_____

TIME SECURED _____

*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.

HOT WORK OPERATOR SIGNATURE _____

HOT WORK SUPERVISOR _____

FIRE MARSHAL _____

NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED.

GFE PERSONNEL SIGNATURE _____

CO SIGNATURE, if required _____

RECERTIFICATION

1ST RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

2ND RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

TEST RESULTS			
TESTS CONDUCTED AS REQUIRED	INITIAL TEST	1ST RETEST	2ND RETEST
OXYGEN 19.5 <O₂<22	20.8%		
COMBUSTIBLE GAS LEL<10	0 %LEL		
TOXIC TYPE: H2S PEL 10 IDLH 100	0 ppm		
TOXIC TYPE: CO PEL 50 IDLH 1200	0 ppm		
TOXIC TYPE:			
TOXIC TYPE: UNITY:	0		

EXISTING CONDITIONS	INITIAL TEST	1ST RETEST	2ND RETEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK			
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	X		
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK			
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE			

TEST RESULTS	
TESTS CONDUCTED AS REQUIRED	INITIAL TEST
OXYGEN 19.5 < O₂ < 22	19 %
COMBUSTIBLE GAS LEL < 10	11 %LEL
TOXIC TYPE: H2S PEL 10 IDLH 100	11 0 ppm
TOXIC TYPE: CO PEL 50 IDLH 1200	1300 ppm
TOXIC TYPE:	
TOXIC TYPE:	

EXISTING CONDITIONS	INITIAL TEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	X
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE	

**NOT SAFE FOR PERSONNEL/
NOT SAFE FOR HOT WORK**

- Oxygen deficient or rich
- IDLH Atmosphere
- Danger of Fire or Explosion in Presence of Hotwork

TEST RESULTS	
TESTS CONDUCTED AS REQUIRED	INITIAL TEST
OXYGEN 19.5 < O₂ < 22	20 %
COMBUSTIBLE GAS LEL < 10	2 %LEL
TOXIC TYPE: H2S PEL 10 IDLH 100	6 ppm
TOXIC TYPE: CO PEL 50 IDLH 1200	25 ppm
TOXIC TYPE:	
TOXIC TYPE: UNITY: >1	

NOT SAFE FOR PERSONNEL W/O PROTECTION / NOT SAFE FOR HOT WORK

EXISTING CONDITIONS	INITIAL TEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK	X
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE	

- Provides provisional entry into space.
- Toxics exceed PEL or Unity, but less than IDLH
- Explosives less than 10%
- Hot work prohibited or not requested

TEST RESULTS	
TESTS CONDUCTED AS REQUIRED	INITIAL TEST
OXYGEN 19.5 < O₂ < 22	20 %
COMBUSTIBLE GAS LEL < 10	2 %LEL
TOXIC TYPE: H2S PEL 10 IDLH 100	4 ppm
TOXIC TYPE: CO PEL 50 IDLH 1200	20 ppm
TOXIC TYPE:	
TOXIC TYPE: UNITY:	<1

**SAFE FOR PERSONNEL/
NOT SAFE FOR HOTWORK**

- Toxics below PEL
- Sufficient oxygen
- Danger of explosion or excessive toxicants in presence of hot work or hot work not requested

EXISTING CONDITIONS	INITIAL TEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	X
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE	

TEST RESULTS	
TESTS CONDUCTED AS REQUIRED	INITIAL TEST
OXYGEN 19.5 < O₂ < 22	20 %
COMBUSTIBLE GAS LEL < 10	0 %LEL
TOXIC TYPE: H2S PEL 10 IDLH 100	1 ppm
TOXIC TYPE: CO PEL 50 IDLH 1200	10 ppm
TOXIC TYPE:	
TOXIC TYPE: UNITY:	<1

**SAFE FOR PERSONNEL/
SAFE FOR HOTWORK**

- Oxygen between 19.5% And 22%
- Toxics below PEL
- All flammables removed
- Boundary spaces protected

EXISTING CONDITIONS	INITIAL TEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK	X
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE	

Pressed up w/ WATER

OR

Inerted w/ Nitrogen,
Carbon Dioxide, etc.

**NOT SAFE FOR
PERSONNEL INSIDE/
SAFE FOR HOTWORK
OUTSIDE**

- **Pressed up or Inerted**

EXISTING CONDITIONS	INITIAL TEST
NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK	
SAFE FOR PERSONNEL/ SAFE FOR HOT WORK	
NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE	X

 **THIS IS AN
EMERGENCY
PROCEDURE AND
NOT ONE USED
ROUTINELY**

INITIAL CERTIFICATION	TEST RESULTS			
SHIP/UNIT/ACTIVITY: _____	TESTS CONDUCTED AS REQUIRED	INITIAL TEST	1ST RETEST	2ND RETEST
ITEM/COMPARTMENT/SPACE: _____		OXYGEN		
TYPE OF OPERATION TO BE CONDUCTED: _____	COMBUSTIBLE GAS			
INITIAL DATE OF TEST: HOUR: _____ DATE: _____	TOXIC TYPE:			
INITIAL EXPIRATION: HOUR: _____ DATE: _____	TOXIC TYPE:			
VENTILATION REQUIRED: YES NO	TOXIC TYPE:			
TYPE: _____				
INERTED GAS: _____ (gas)	EXISTING CONDITIONS			
OR PRESSED UP WITH: _____ (liquid)				
REQUIREMENTS/CONCLUSIONS/PREScribed PRECAUTIONS/INSTRUCTIONS:	INITIAL TEST	1ST RETEST	2ND RETEST	
_____	NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
_____	NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK			
_____	SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
_____	SAFE FOR PERSONNEL/ SAFE FOR HOT WORK			
_____	NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE			

GAS FREE RELATED HOT WORK

PQS QUALIFIED FIRE WATCHES ASSIGNED

LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)

TIME SECURED _____

*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.

HOT WORK OPERATOR SIGNATURE _____

HOT WORK SUPERVISOR _____

FIRE MARSHAL _____

NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED.

OFFICE PERSONNEL SIGNATURE _____

CO SIGNATURE, if required _____

RECERTIFICATION

1ST RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

OFFICE PERSONNEL SIGNATURE _____

2ND RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

OFFICE PERSONNEL SIGNATURE _____

GAS FREE RELATED HOT WORK

PQS QUALIFIED FIRE WATCHES ASSIGNED

LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)
2-120-0-C	FN TIMMY	I.B. Timmy
2-040-0-Q	EN3 SMITH	D. Smith
3-080-0-E	GSEFN JACK	J Jack

TIME SECURED 1718

*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK

HOT WORK OPERATOR SIGNATURE J

HOT WORK SUPERVISOR J Phillips

FIRE MARSHAL W Curry

O Band

O

INITIAL CERTIFICATION	TEST RESULTS			
SHIP/UNIT/ACTIVITY: _____	TESTS CONDUCTED AS REQUIRED	INITIAL TEST	1ST RETEST	2ND RETEST
ITEM/COMPARTMENT/SPACE: _____		OXYGEN		
TYPE OF OPERATION TO BE CONDUCTED: _____	COMBUSTIBLE GAS			
INITIAL DATE OF TEST: HOUR: _____ DATE: _____	TOXIC TYPE:			
INITIAL EXPIRATION: HOUR: _____ DATE: _____	TOXIC TYPE:			
VENTILATION REQUIRED: YES NO	TOXIC TYPE:			
TYPE: _____				

INERTED GAS: _____ (gas)	EXISTING CONDITIONS			
OR PRESSED UP WITH: _____ (liquid)				
REQUIREMENTS/CONCLUSIONS/PREScribed PRECAUTIONS/INSTRUCTIONS:	INITIAL TEST	1ST RETEST	2ND RETEST	
_____	NOT SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
_____	NOT SAFE FOR PERSONNEL WITHOUT PROTECTION/ NOT SAFE FOR HOT WORK			
_____	SAFE FOR PERSONNEL/ NOT SAFE FOR HOT WORK			
_____	SAFE FOR PERSONNEL/ SAFE FOR HOT WORK			
_____	NOT SAFE FOR PERSONNEL INSIDE/SAFE FOR HOT WORK OUTSIDE			

GAS FREE RELATED HOT WORK

PQS QUALIFIED FIRE WATCHES ASSIGNED

LOCATIONS	PRINT NAME/RATE	SIGNATURE* (UPON COMPLETION)

TIME SECURED _____

*FINAL CHECKUP: WORK AREA AND ALL ADJACENT AREAS TO WHICH SPARKS AND HEAT MIGHT SPREAD WERE INSPECTED 30 MINUTES AFTER THE WORK WAS COMPLETED AND WERE FOUND TO BE FIRE SAFE. THE EQUIPMENT AND STRUCTURES WORKED ON WERE COOL TO THE TOUCH.

I CERTIFY THAT I AM FAMILIAR WITH AND WILL COMPLY WITH ALL SAFETY PRECAUTIONS PERTINENT TO THIS TYPE OF WORK.

HOT WORK OPERATOR SIGNATURE _____

HOT WORK SUPERVISOR _____

FIRE MARSHAL _____

NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED.

GFE PERSONNEL SIGNATURE _____

CO SIGNATURE, if required _____

RECERTIFICATION

1ST RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

2ND RETEST/UPDATE

TIME: _____ DATE: _____ EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

NOTE: THIS INSPECTION INDICATES THE CONDITIONS WHICH EXISTED AT THE TIME TESTS WERE CONDUCTED.

GFE PERSONNEL SIGNATURE _____

CO SIGNATURE, if required _____

RECERTIFICATION

1ST RETEST/UPDATE

TIME: _____

DATE: _____

EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

2ND RETEST/UPDATE

TIME: _____

DATE: _____

EXPIRES: _____

GFE PERSONNEL SIGNATURE _____

When is CO's Signature Required?

- Gas Freeing an IDLH Space
- Gas Freeing for Civilian Contractors
- Gas Freeing for Foreigner Overseas
- Hot Work within 5 ft of a Magazine



Distribution

- All Accesses to the Space
- GFE Files (original)
- Division Requesting Services
- DC Central
- Officer of the Deck (Inport or Underway)

*** Must be Kept for 1 yr Minimum**



GAS DETECTION TAGS

GAS DETECTION TAG

COMPARTMENT UNSAFE
NOT SAFE FOR PERSONNEL
NOT SAFE FOR HOT WORK

DATE OF TEST	TIME
TEST IS VOID (DATE)	
TESTER	BADGE NO.

1 - RED BACKGROUND
BLACK LETTERING

GAS DETECTION TAG


NOT SAFE FOR PERSONNEL
WITHOUT PROTECTION
NOT SAFE FOR HOT WORK

PROVISIONAL FOR:

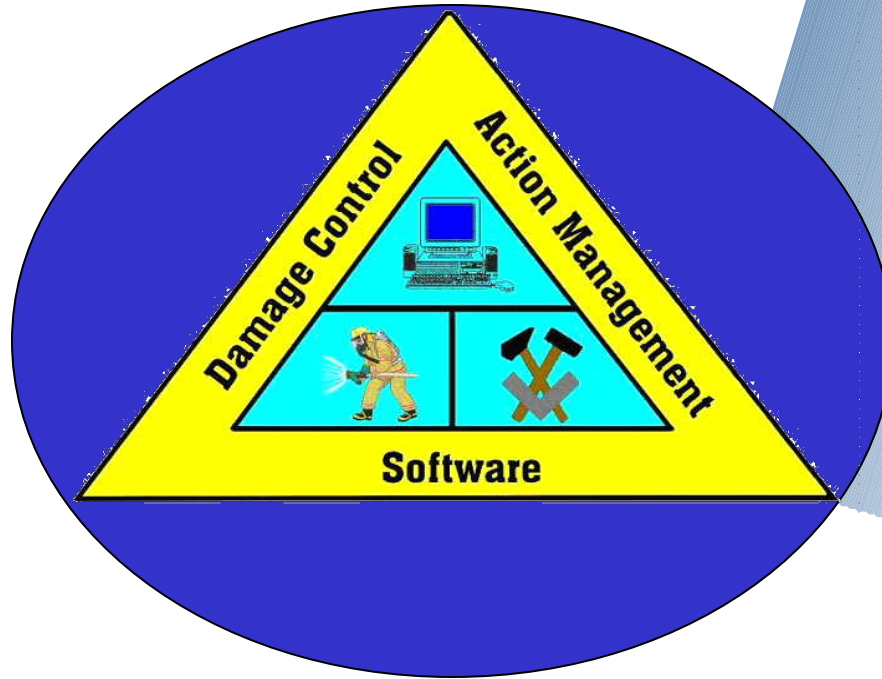
DATE OF TEST	TIME
TEST IS VOID (DATE)	
TESTER	BADGE NO.

2 - ORANGE BACKGROUND
BLACK LETTERING

GAS DETECTION TAGS

	
GAS DETECTION TAG	
CROSS OUT SECTION THAT DOES NOT APPLY	
INERTED NOT SAFE FOR PERSONNEL INSIDE SAFE FOR PERSONNEL AND HOT WORK OUTSIDE	
PRESSED UP WITH _____ SAFE FOR PERSONNEL AND HOT WORK OUTSIDE	
DATE	TIME
CONDITION VOID AFTER	
TESTER	BADGE NO.

**5 - WHITE BACKGROUND
RED LETTERING**



DCAMS

GFE/FM MODULE



KEY

LIQUID LOAD COLOR CODE FOR eDCAMS OVERLAYS “TANKS”



PINK – JP-5 TANKS NOT REQUIRED TO BE BALLASTED



PINK /BLUE – JP-5 TO BE BALLASTED



PINK STRIPES – JP-5 SERVICE TANKS



YELLOW STRIPES– FUEL OIL SERVICE TANKS AND SETTLING TANKS



YELLOW – FUEL OIL TANKS NOT REQUIRED TO BE BALLASTED



YELLOW/GREEN – FUEL OIL TANKS TO BE BALLASTED



BLUE – FRESH WATER TANKS



YELLOW/PINK – GASOLINE TANKS



BLUE STRIPES – RESERVE FEED WATER TANKS

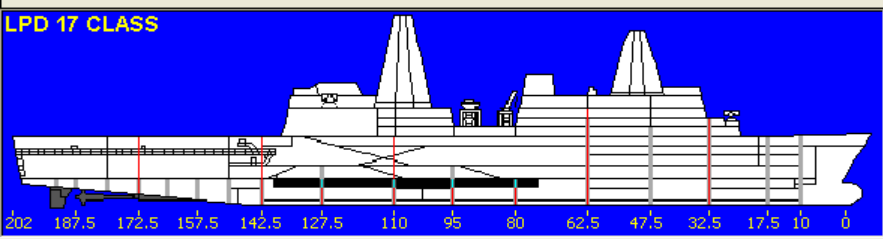


GREEN – DAMAGE CONTROL VOIDS

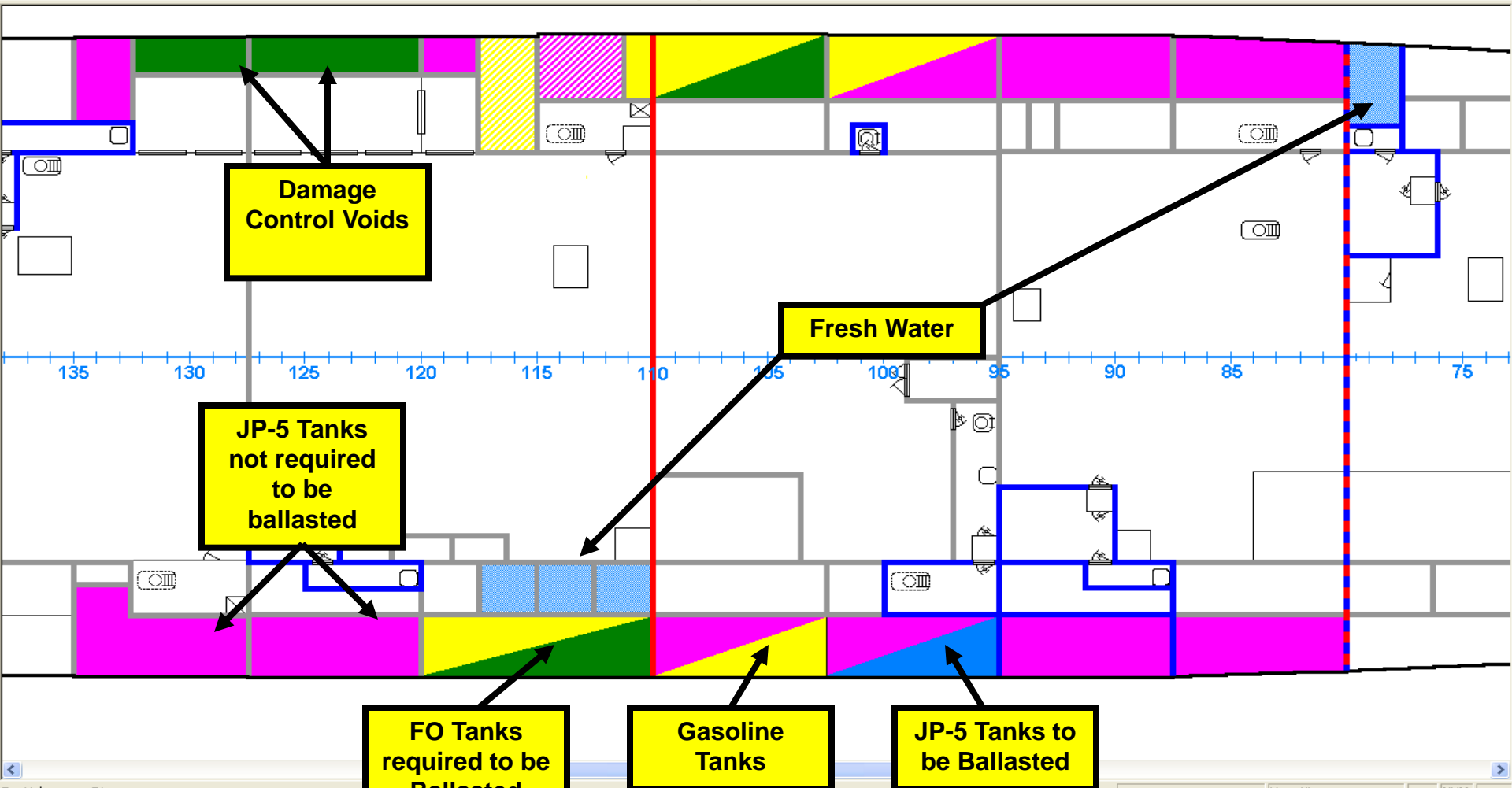


TBD

VOIDS OR OTHER SPACES (OVERLAY TO BE DETERMINED)



Time	Name	Action	Station	Compartment	Number	Deck	Frame
------	------	--------	---------	-------------	--------	------	-------



TANK & VOID COMPARTMENT INFO

TAB 1 Of 5

6-145-1-JJ, CARGO JP-5 TANK

General | Access | Piping | GFE | Air Change

Capacity Displacement:

Cross Flooding Duct?

YES To What Space?: Compartment Number

NO Compartment Name

TLI Available?

YES

NO

Soundcap Location:

Tank Coating: ▼

Notes:

Volume of Tank:

Air Change Rate: ▼

OK

Cancel

Print

Detail View

Pictures

TANK & VOID COMPARTMENT INFO

TAB 2 Of 5

6-145-1-JJ, CARGO JP-5 TANK

General **Access** Piping GFE Air Change

Type of Access:

Location of Fitting

Ladder: YES NO

Safety Hazards: SLIP TRIP
 FALL HAZARD
 LADDER TREADS

Notes:

Additional Access to Space?
 YES NO
Type of Access:

IF YES (Location of Fitting Numbers):

OK
Cancel
Print
Detail View
Pictures

TANK & VOID COMPARTMENT INFO

TAB 3 Of 5

6-145-1-JJ, CARGO JP-5 TANK

General Access **Piping** GFE Air Change

Piping Present in Tank: YES NO

Systems:
System Notes:

Hazards for Systems:

Leaks Visible: YES NO

Repair Required: YES NO Type:

Notes:

OK
Cancel
Print
Detail View
Pictures

TANK & VOID COMPARTMENT INFO

TAB 4 Of 5

6-145-1-JJ, CARGO JP-5 TANK

General Access Piping **GFE** Air Change

Reason for Entry!

- Inspect
- Repair/Cold Work
- PMS
- Cleaning
- Repair/Hot Work
- QA
- OTHER

Tag Out Required

- YES - In Progress
- NO

Logged in Closure Log

- YES
- NO

Date:

Time:

Person:

Result of Initial Drop Test:

- SAT
- UNSAT - Reason:
- IDLH

Co-Authorization Required?

- YES
- NO

Obtained

- YES
- NO

Notes:

OK

Cancel

Print

Detail View

Pictures

TANK & VOID COMPARTMENT INFO

TAB 5 Of 5

6-145-1-JJ, CARGO JP-5 TANK

General Access Piping GFE **Air Change**

Volume of Space: ____ FT X ____ FT X ____ FT =

Local Exhaust Ventilation: Volume / 100 ft/min =

Dilution Vent Volume / 3 minutes =

Welder with 3/16 Rod = 2000 FT³ X # of Welder =

Welder with 5/36 Rod = 2000 FT³ X # of Welder =

Welder with 1/4 Rod = 3500 FT³ X # of Welder =

Welder with 3/8 Rod = 4000 FT³ X # of Welder =

Notes:

OK
Cancel
Print
Detail View
Pictures

SAFETY / FIRE MARSHALL ICONS



GAS FREE ENGINEERING



HOT WORK



COLD WORK



IDLH



PAINTING



VENTILATION



HAZMAT IN USE



WARNING



AREA SECURE



STOP



FIELD ACTIVITY



CONTRACTORS




SHIPS FORCE



GAS FREE ENGINEERING

Gas Free Engineering (GFE)

 Compartment Number: Compartment Name:

Performed By:

GFE GFEA **GFPO** IH Contractor

GFE Checklist:

GFE Chit Complete

Testing In Progress

Periodic Continuous

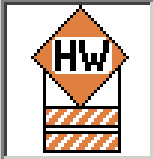
EXPIRATION:

Date: Time:

NOTES:

HOT WORK

HOT WORK



Compartment Number: Compartment Name:

Work To Be Performed

WELDING STUD WELDING OXY/ACET CUTTING

BRAZING ARC WELDING GRINDING OTHER (Specify in Notes)

Hot Work Checklist

Fire Watch Set: **YES** NO

Tested Safe for Personnel

Tested Safe For Hot Work

Work In Progress

Secure

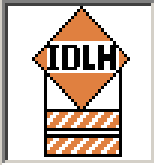
Start Time: Stop Time:

NOTES:

Empty text area for notes with a vertical scrollbar.

IDLH

IMMEDIATELY DANGEROUS to LIFE & HEALTH (IDLH)



Compartment Number:

6-145-1-JJ

Compartment Name:

CARGO JP-5 TANK

HAZARD ID:

OK

Cancel

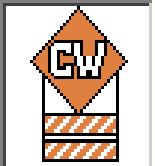
Print

**DO NOT ENTER
GAS FREE CERTIFICATE REQUIRED
CONFINED SPACE**

NOTES:

COLD WORK

COLD WORK [minimize] [maximize] [close]



Compartment Number: Compartment Name:

OK

Cancel

Print

Cold Work Activity

- SPACE INSPECTION
- CLEANING

- CHEMICAL CLEANING (Specify)
 - Strippers
 - Thinners
 - Industrial Cleaners


- OTHER (Describe in Notes)

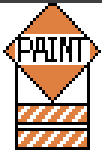
Space Secure?

YES NO

NOTES:

PAINTING

 PAINTING _ □ ×

 Compartment Number: Compartment Name:

Work Description:

Spray Painting

Roller/Brush Painting

Other (Specify in Notes)

Time

From: To:

NOTES:

Work Status

Prep for Painting

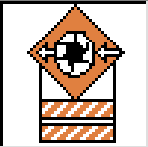
Painting in Progress

Cleanup in Progress

Complete

VENTILATION

VENTILATION [Window Title Bar]

 Compartment Number: Compartment Name:

Type:

Work Description:
 RIGGED ON SECURED

Equipment Used:

Exhausting To:

VENT DIRECTION:
 UP
 PORT
 AFT FWD
 STBD
 DOWN

Time:
From: To:

Contractor or Ship's Force?:

NOTES:

Buttons: OK, Cancel, Print

HAZMAT IN USE

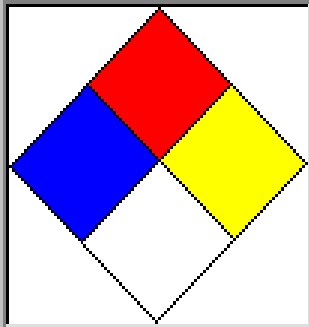
HAZMAT [Window Title Bar]

Compartment Number: Compartment Name:

OK
Cancel
Print

4 - Below 73 deg. F
3 - Below 100 deg. F
2 - Below 200 deg. F
1 - Above 200 deg. F
0 - Will Not Burn

4 - Deadly
3 - Extreme Danger
2 - Hazardous
1 - Slightly Hazardous
0 - Normal Material



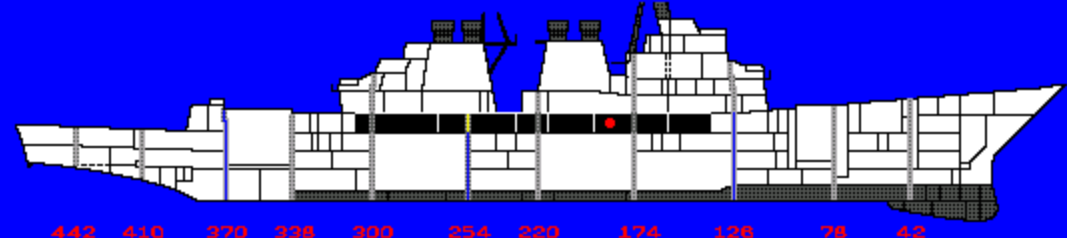
4 - May Detonate
3 - Shock & Heat May Detonate
2 - Violent Chemical Change
1 - Unstable if Heated
0 - Stable

OXY - Oxidizer
Acid - Acid
Alk - Alkali
Cor - Corrosive
-W- - Water

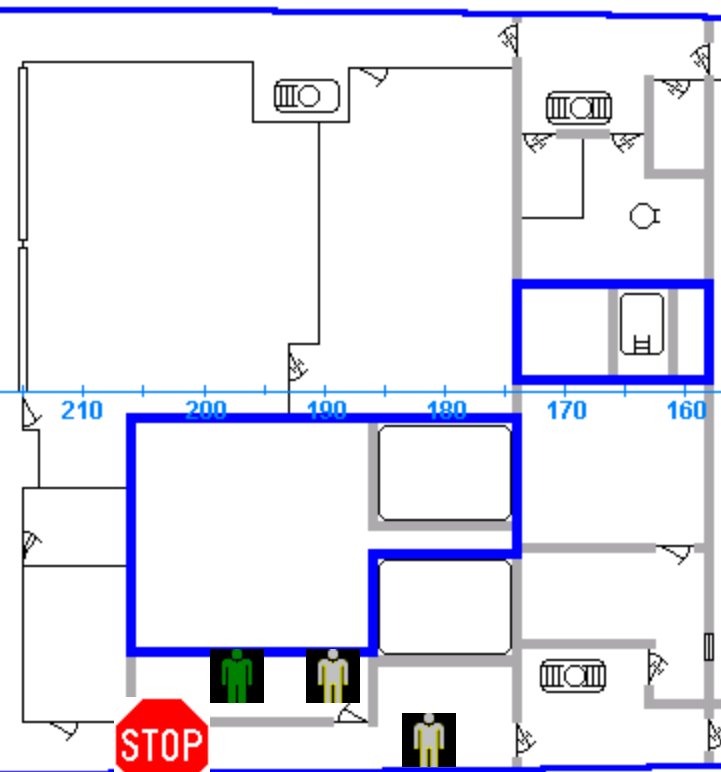
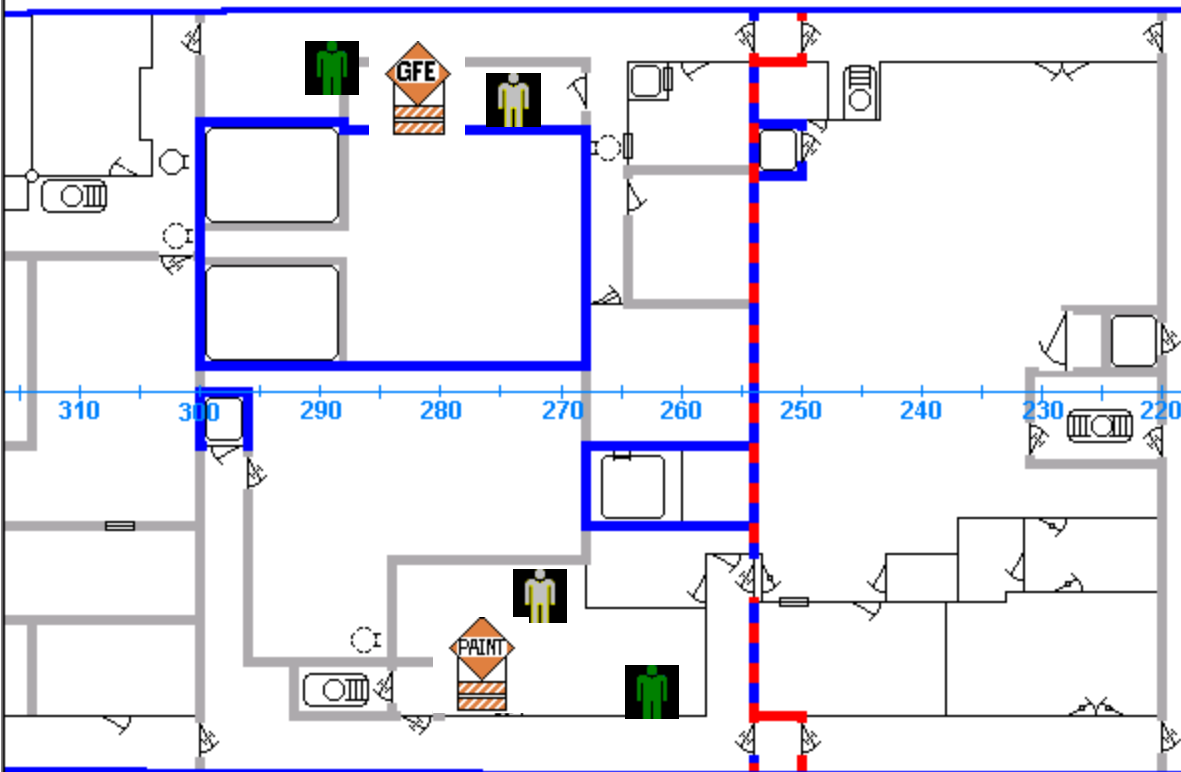
Notes:

Compt # Equip. FR STBD/PORT AFT/FWD Deck

DDG 67 - USS COLE



Time	Name	Action	Station	Compartment
1708	Fire	Added	DCRS 2	CREW/CHIEF PETTY
1709	Fire	Status Engaged	DCRS 2	CREW/CHIEF PETTY
1709	Fire	Status No	DCRS 2	CREW/CHIEF PETTY
1710	Attack Team	Added	DCRS 2	CPO MESSROOM & LO
1710	Casualties	Added	DCRS 2	CPO MESSROOM & LO



MAIN DECK

MAIN DECK

Questions...? Summary!

We discussed Forms,
Records, Logs, Certificate
Categories and
Distribution



DANGER

CONFINED SPACE
ENTRY BY PERMIT ONLY ENTRY BY TRAINED PERSONNEL ONLY
Entering This Confined Space is NOT A Routine Operation.

DO IT SAFELY!

1. Permission <input type="checkbox"/> Get a written permit from your certified supervisor	5. Check air inside Confined Space <input type="checkbox"/> At least 19.5% oxygen <input type="checkbox"/> No more than 23.5% oxygen <input type="checkbox"/> Check for explosive limit 1% LEL <input type="checkbox"/> Check toxic vapors if needed
2. Preparation <input type="checkbox"/> Lock out power leads <input type="checkbox"/> Shut off heating system if needed <input type="checkbox"/> Drain if needed <input type="checkbox"/> Vent vapors if needed <input type="checkbox"/> Post "WORKER IN CONFINED SPACE" signs	6. Protect yourself <input type="checkbox"/> Wear gloves, and other safety clothing <input type="checkbox"/> Put on harness and lifeline <input type="checkbox"/> Continuously monitor the air
3. Isolation <input type="checkbox"/> Disconnect fill and drain lines if needed	7. Rescue testing <input type="checkbox"/> Observer with auxiliary air supply standing by before you enter and until you exit, SAFELY!
4. Ventilation <input type="checkbox"/> Force air to bottom of Confined Space and vent to outside	8. In case of emergency call _____ Plant Protection:



Review Questions...

- What are the Requirements for a Space to be Considered **“Safe for Personnel/Safe for Hot Work”**?
 - ~ **19.5% < O2 < 22%**
 - ~ **Toxics < PEL**
 - ~ **All Flammables Removed**
 - ~ **Boundary Spaces Protected**



Question # 2...

- When is the CO's Signature Required on a Gas Free Certificate?
 - ~ **Gas Freeing for a Civilian**
 - ~ **Gas Freeing an IDLH Space**
 - ~ **Hot Work within 5 feet of a magazine**



Question # 3

- What is the Distribution for GFE Certificates?
 - ~ Gas Free Log
 - ~ DC Central
 - ~ All Accesses to the Space
 - ~ Division Requesting Work
 - ~ OOD

