

Damage Control Rapid Plotting



Enabling Objectives

- 1 Select statements which describe the purpose of DC diagrams, status boards and logs
- 2 Record casualties on isometric DC diagrams
- 3 Given a DC scenario record damage control messages
- 4 Match damage control symbols to the situation they represent

Failure to Communicate

Crew interviews and analysis of plots and handwritten messages after casualties on USS Samuel B. Roberts, USS Stark and USS Cole revealed:

- Improper use of complex triangle symbology
- Damage control decision makers had limited knowledge of sequential actions to combat casualties
- Minimal crew training on symbology
- Improper display of information on message blanks

- Challenge: Reduce the complexity of triangle symbology
- Solution: Rapid Plotting Symbology, DCAMS

Initiatives to Improve DC Plotting

- Rapid plotting symbology
- Rapid plotting message blanks
- DC casualty checklists
- DCAMS (Damage Control Action Management Software)
- Shipboard flag training kits

Rapid Plotting Symbolology

- Replace triangle symbolology
- Simplifies plotting
- Improves display of symbolology on DC plates
- Will appear in revision of NSTM 079, vol. 2, Practical Damage Control

Damage Control Rapid Plotting

- Universal symbology standard of circle and slashes combined with simplified plotting requirements.
 - The circle and slash system eliminates the requirement to have several flags on the side of the triangle.
 - Simplified plotting requirements are accomplished with check sheets.

Damage Control Rapid Plotting

- Check sheets similar to the Main Space Fire Doctrine will replace the “cluttered” plotting details that obscure the big picture of the ships condition with noise.
 - Check sheets are designed to provide guidance through the casualty process, track and document details and events.
 - Check sheets eliminate the requirement to plot things such as mechanical and electrical isolation.
 - Checklist examples can be found at www.dcfp.navy.mil as DC Tricks of the Trade #007 in the Library

Rapid Plotting Symbology

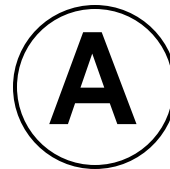
Three symbols represent key events in a casualty.

Example for Class Alpha fire:

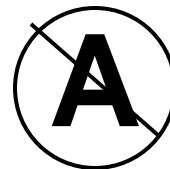
Casualty Reported



Casualty Engaged



No Casualty
(Fire is out.)



Rapid Plotting Symbology

Example for ruptured piping:

Casualty Reported

System

R
—
FM

Casualty Engaged

R

No Casualty
(Rupture is repaired
or bypassed.)

~~R~~

NSTM 079 & DCAMS 5.02 Casualty Icons



Fire (unspecified)

Reported, Engaged, No



Smoke (unknown)

Reported, Engaged, No



Hole in Deck - Below

Reported, Engaged, No



Fire (Class A)

Reported, Engaged, No



Black Smoke

Reported, Engaged, No



Hole in Deck - Over

Reported, Engaged, No



Fire (Class B)

Reported, Engaged, No



White Smoke

Reported, Engaged, No



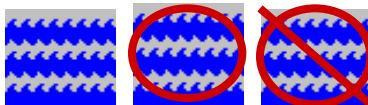
Hole in Bulkhead

Reported, Engaged, No



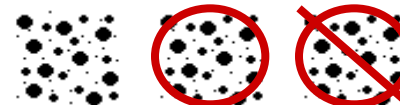
Fire (Class C)

Reported, Engaged, No



Flooding

Reported, Engaged, No



Fragmentation

Reported, Engaged, No



Fire (Class D)

Reported, Engaged, No



Heat Transfer

Reported



Debris

Reported, Engaged, No

NSTM 079 & DCAMS 5.02 Casualty Icons



Rupture

Reported, Engaged, No



AFFF Rupture

Reported, Engaged, No



Rupture-Potable Water

Reported, Engaged, No



Rupture - Fire Main

Reported, Engaged, No



Rupture - Chill Water

Reported, Engaged, No



Rupture - Steam

Reported, Engaged, No



Rupture- Fuel Oil

Reported, Engaged, No



Rupture- Electrical Cooling Water

Reported, Engaged, No



Rupture- Salt Water

Reported, Engaged, No



Rupture- JP5

Reported, Engaged, No



Rupture- Hydraulic Oil

Reported, Engaged, No



Rupture-Lube Oil

Reported, Engaged, No



Rupture-Pressurized Air

Reported, Engaged, No

NSTM 079 & DCAMS 5.02 Casualty Icons



Point of Impact

Reported, Engaged, No



Communications Lost

Reported, Engaged, No



Chemical Hazard

Reported, Engaged, No



Structural Damage

Reported, Engaged, No



Mechanical Failure

Reported, Engaged, No



Biohazard

Reported, Engaged, No



Electrical Power Lost

Reported, Engaged, No



Mechanical Damage

Reported, Engaged, No



Radiation Hazard

Reported, Engaged, No



Electrical Damage

Reported, Engaged, No



HAZMAT/Toxic Spill

Reported, Engaged, No



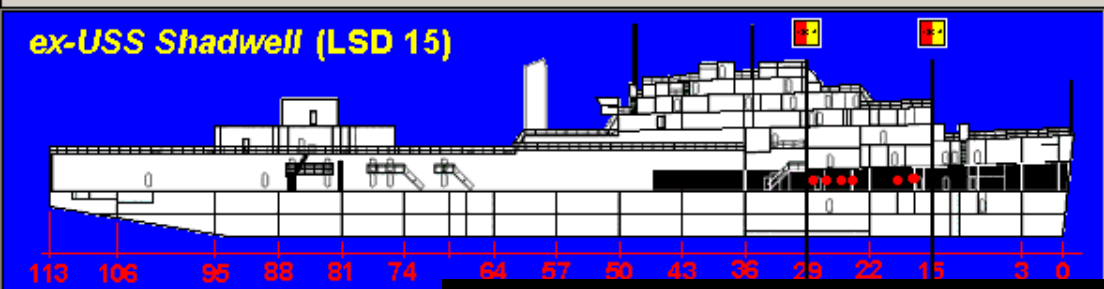
Casualty Power Lost

Reported, Engaged, No



Unexploded Ordnance

Reported, Engaged, No



Time	Name	Action	Station	Compartmer
1353	Attack Team	Added	REPAIR 2	ENGINEERING
1353	Heat Transfer	Status Engaged	REPAIR 2	ENGINEERING
1354	Investigator Team	Moved	REPAIR 2	UNASSIGNED
1354	Other Personnel	Added	REPAIR 2	UNASSIGNED
1354	Boundary Man	Added	REPAIR 2	UNASSIGNED
1354	Boundary Man	Added	REPAIR 2	UNASSIGNED
1354	Boundary Man	Added	REPAIR 2	WATER MIST
1354	Boundary Man	Added	REPAIR 2	PASSAGE

Damage Control Checklist

AOR Casualty Status

DCRS 2

Casualty Check List

Comp. #	Compartment Name	Casualty
3-15-0-L	CREW LIVING SPACE	Fire Class A
3-15-0-L	CREW LIVING SPACE	Smoke White
3-15-4-E	FIRE PUMP ROOM	Smoke
3-22-4-Q	NODE ROOM # 8	Rupture - Fire Main
3-24-0-A	ENGINEERING STOREROOM	Heat Transfer
3-24-0-A	ENGINEERING STOREROOM	Structural Damage
3-24-2-A	TOMAHAWK EQPT ROOM	Flooding

Fire Class A			3-15-0-L	CREW LIVING SPACE
Ordered	Executed	N/A	Check List Item	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11	Secure re-entry Bilge Sprinkling
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12	Establish fire boundaries
13:52	13:57			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13	Establish smoke boundaries
13:52	13:57			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14	Rapid response on scene
13:52	13:57			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15	Engaging casualty
13:52	13:52			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	Establish communications

...Decision Aids
...Request Action
...Enhanced Communications

Shipboard Flag Training Kits

- Damage Control Training Teams / Afloat Training Groups use the standardized kits to nonverbally initiate and conduct damage control drills.
- Flags have Rapid Plotting Symbology printed on them to alert Investigators and other shipboard personnel to specific casualties.
- Provides crew with continuous exposure to Rapid Plotting Symbology.

Rapid Plotting Message Blanks

- Rapid plotting message blanks and DC plates will be used as a backup if Automated Damage Control Software or wireless communications fail.
- Rapid plotting message blanks use three symbols instead of the six symbols employed with the triangle system.

Mechanics of plotting Casualties

Three primary reports are recorded on the DC plates 2 & 3 that represent the key events in the casualty:

Casualty reported

A

Casualty Engaged

A

No Casualty

~~**A**~~

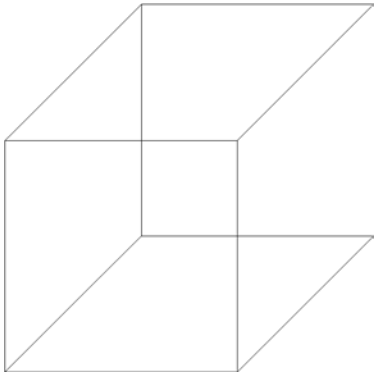
Mechanics of plotting (cont)

- Message blank
 - Time and sequential number
 - Who it is from and to whom it is going
 - Compartment number, frame number, remarks etc..
 - Damage must be pinpointed (Port/Stbd, Deck/Ovhd, Fwd/Aft)
 - Fire/smoke/flooding boundary reports shall have primary and secondary boundaries listed

Mechanics of plotting (cont)

- Installed system messages require the following
 - System (Halon, AFFF, APC, Bilge Spr, CMWD)
 - Time activated/released, secured
 - Group number (if required)
- Ruptured piping messages shall contain
 - Cut-out valve(s) used
 - System if known
 - Affected system(s)

Five Sections of the Rapid Plotting Message Blank

	TIME _____ NUMBER _____ FROM _____ TO _____ _____ FM - INV - SL _____ _____ DCRS 2 _____ _____ DCRS 3 _____ _____ DCRS 5 _____ _____ DCC _____ COMPT. #/NAME _____ FRAME _____ REMARKS: _____				
○ _____	OVHD 				
○ _____	BOUNDARIES FB - SB - FLB - CB				
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">S</td> <td style="width: 20px; height: 20px; text-align: center;">P</td> <td style="width: 20px; height: 20px; text-align: center;">P</td> <td style="width: 20px; height: 20px; text-align: center;">S</td> </tr> </table>	S	P	P	S
S	P	P	S		

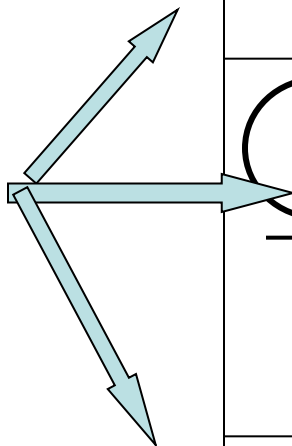
1. Originator / Time



2. Casualty Space / Remarks



3. Casualty Symbology



4. Specific Location of Damage



5. Boundaries



Rapid Plotting Message Blank

Rapid plotting message blanks must be tailored in section 1 to your specific ship

<hr style="width: 50%; margin: auto;"/>	<p>TIME _____ NUMBER _____</p> <p>FROM _____ TO _____</p> <p>_____ FM - INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME _____</p> <p>FRAME _____</p> <p>REMARKS:</p>										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">BOUNDARIES</td> <td style="width: 10%; text-align: center;">S</td> <td style="width: 10%; text-align: center;">P</td> <td style="width: 10%; text-align: center;">P</td> <td style="width: 10%; text-align: center;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

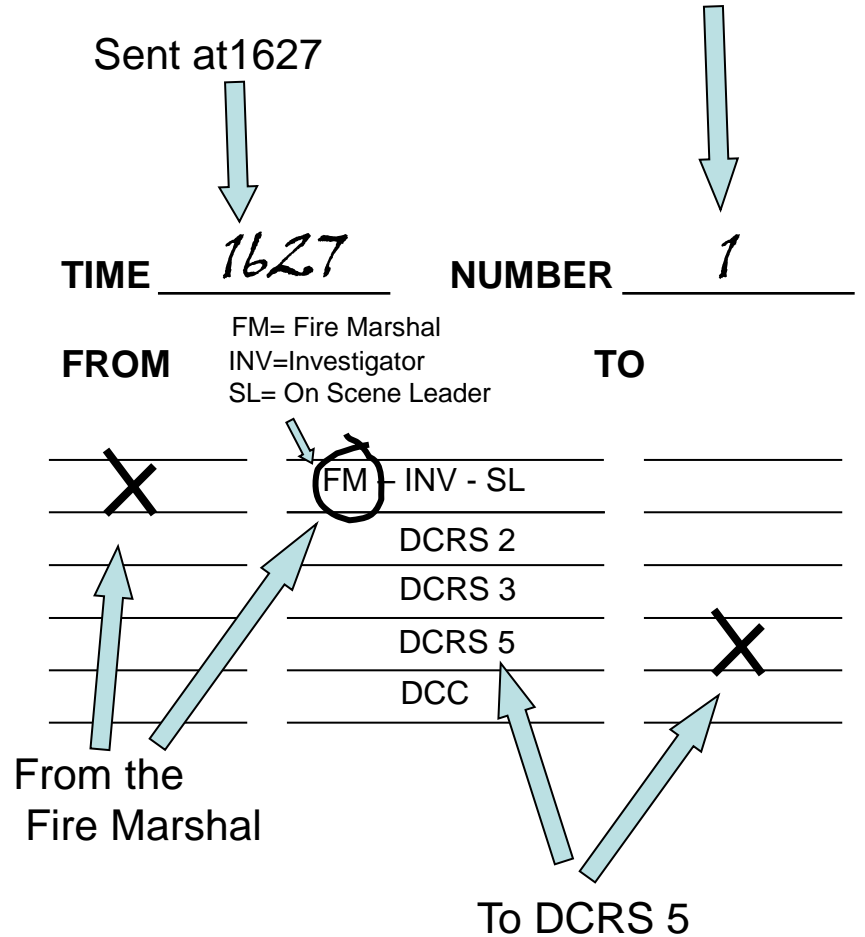
Reverse Side of Message Blank

REPORT or CASUALTY	SYMBOL	REQUIRED SUPPLEMENTAL INFO	—	○	⊗
FIRE BOUNDARIES	FB	PRIMARY AND SECONDARY	Ordered	Set	N/A
SMOKE BOUNDARIES	SB	PRIMARY AND SECONDARY	Ordered	Set	N/A
FLOODING BOUNDARIES	FLB	PRIMARY AND SECONDARY			
CASUALTY BOUNDARIES	CB	PRIMARY AND SECONDARY	Ordered	Set	N/A
FIRE	A, B, C, D		Reported	Engaged	No
SMOKE	S	COLOR AND REMOVAL METHOD	Reported	Engaged	No
FIRE EXTINGUISHING SYSTEM	FES	SYSTEM TYPE	Manned	Engaged	No
FLOODING	FL	CLEAN / CONTAMINATED / DEPTH / REMOVAL METHOD	Reported	Engaged	No
FIREFIGHTING WATER	FFW	DEPTH / REMOVAL METHOD	Reported	Engaged	No
PROGRESSIVE FLOODING	PFL	RATE	Reported	Engaged	No
RUPTURED PIPING	R	TYPE SYSTEM	Reported	Engaged	No
STRUCTURAL DAMAGE	STR	SAG / PANT / TYPE SHORING	Reported	Engaged	No
JAMMED ACCESS	J	FITTING TYPE AND NUMBER	Reported	Engaged	No
HOLE	H	SIZE	Reported	Engaged	No
COMPARTMENT DEMOLISHED	CD		Reported	N/A	N/A
NO APPARENT DAMAGE	NAD		Reported	N/A	N/A
COMMS LOST	T	CIRCUIT	Reported	Engaged	No
ELECT PWR LOST	E		Reported	Engaged	No
ELECT DAMAGE	ED	EQUIPMENT	Reported	Engaged	No
CAS PWR ORDERED	CP		Reported	Engaged	No
CAS PWR LOST	CPL		Reported	Engaged	No
MECHANICAL FAILURE	M	EQUIPMENT / SYSTEM	Reported	Engaged	No
MECHANICAL DAMAGE	MD	EQUIPMENT / SYSTEM	Reported	Engaged	No
PERSONNEL CASUALTY	P	NAME / BILLET IF KNOWN	Reported	Engaged	No
WEAPON CASUALTY	WPN	TYPE WEAPON	Reported	Engaged	No
TOXIC GAS	TOX	HAZARD IF KNOWN	Reported	Engaged	No
CHEMICAL CONTAMINATION	CHM	AGENT IF KNOWN / LOCATION	Reported	Engaged	No
BIOLOGICAL CONTAMINATION	BIO	AGENT IF KNOWN / LOCATION	Reported	Engaged	No
RADIOLOGICAL CONTAMINATION	NUC	INTENSITY IF KNOWN / LOCATION	Reported	Engaged	No

Addressing the Message

R FM	TIME <u>1627</u> NUMBER <u>1</u>				
	FROM _____ TO _____ X <u>FM</u> - INV - SL _____ DCRS 2 _____ DCRS 3 _____ DCRS 5 X _____ DCC				
COMPT. #/NAME _____ <u>2-58-2-Q</u>	FRAME <u>60</u>				
REMARKS:	<div style="text-align: center;"> </div>				
BOUNDARIES	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">S</td> <td style="width: 25%;">P</td> <td style="width: 25%;">P</td> <td style="width: 25%;">S</td> </tr> </table>	S	P	P	S
S	P	P	S		
FB - SB - FLB - CB	<table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>				

First message of the set

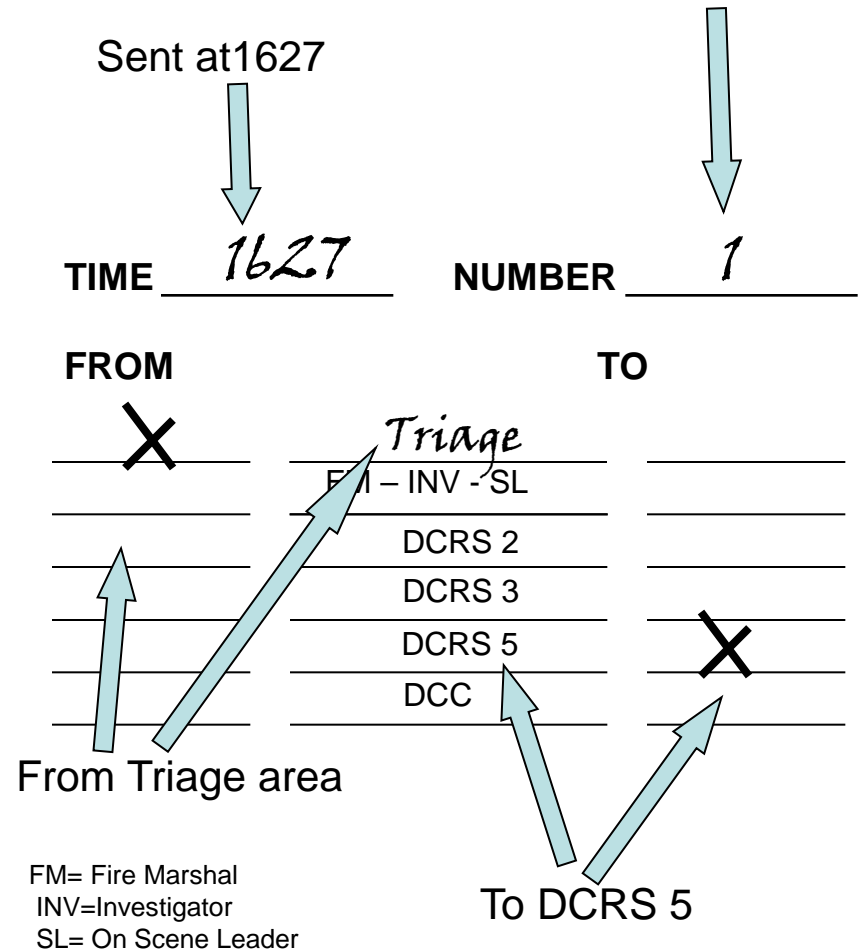


Addressing Others

First message
of the set

Other Teams / Locations

- Bridge
- Medical / Triage
- CCA
- Decon stations
- Air staging area
- Hangar
- Weather deck
- Secondary DCC
- Secondary Conn



Casualty Space / Frame / Remarks

$\frac{R}{FM}$	TIME <u>1627</u> NUMBER <u>1</u>														
	FROM _____ TO _____														
	<table border="0"> <tr> <td style="text-align: center;"><u>X</u></td> <td style="text-align: center;"><u>FM</u> - INV - SL</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>DCRS 2</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>DCRS 3</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>DCRS 5</td> <td style="text-align: center;"><u>X</u></td> </tr> <tr> <td>_____</td> <td>DCC</td> <td>_____</td> </tr> </table>	<u>X</u>	<u>FM</u> - INV - SL	_____	_____	DCRS 2	_____	_____	DCRS 3	_____	_____	DCRS 5	<u>X</u>	_____	DCC
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_____	DCRS 2	_____													
_____	DCRS 3	_____													
_____	DCRS 5	<u>X</u>													
_____	DCC	_____													
COMPT. #/NAME _____ <u>2-58-2-Q</u>															
FRAME <u>60</u>															
REMARKS:															
BOUNDARIES	S P P S														
FB - SB - FLB - CB															

Compt. # / Name 2-58-2-Q

FRAME 60


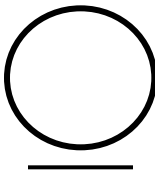
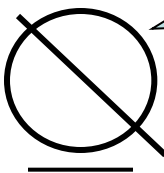
REMARKS:

At Frame 60

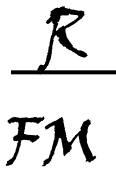
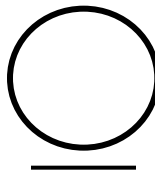
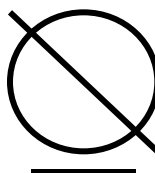
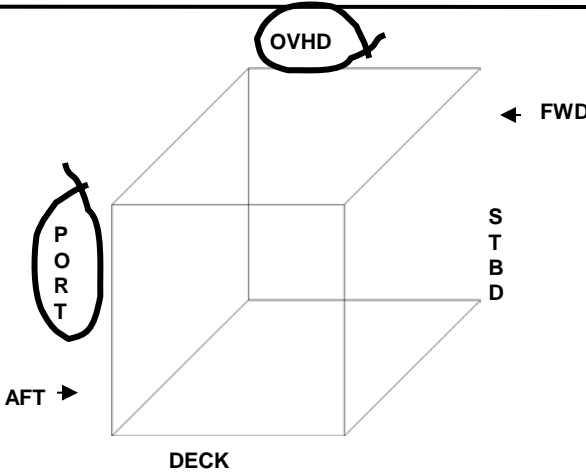
In space
2-58-2-Q

Casualty Space /
Remarks Section

Casualty Symbology

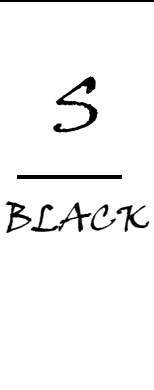
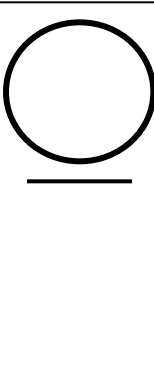
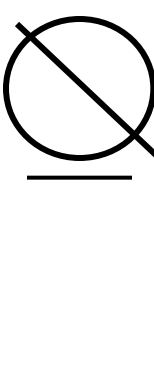
	<p>Reported</p>
	<p>Engaged</p>
	<p>No Casualty</p>

A note area is located below each report box.

	TIME <u>1627</u> NUMBER <u>1</u>				
	FROM _____ TO _____ <input checked="" type="checkbox"/> FM - INV - SL _____ _____ DCRS 2 _____ _____ DCRS 3 _____ _____ DCRS 5 _____ <input checked="" type="checkbox"/> _____ DCC _____				
	COMPT. #/NAME <u>2-58-2-Q</u> FRAME <u>60</u> REMARKS:				
					
BOUNDARIES					
FB - SB - FLB - CB	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">S</td> <td style="width: 25%; text-align: center;">P</td> <td style="width: 25%; text-align: center;">P</td> <td style="width: 25%; text-align: center;">S</td> </tr> </table>	S	P	P	S
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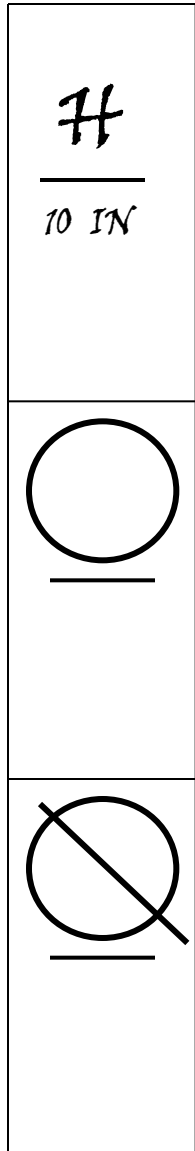
Note Area

Write amplifying information in the Note Area. Acceptable information includes, but is not limited to:

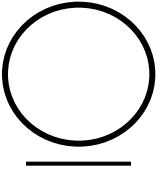
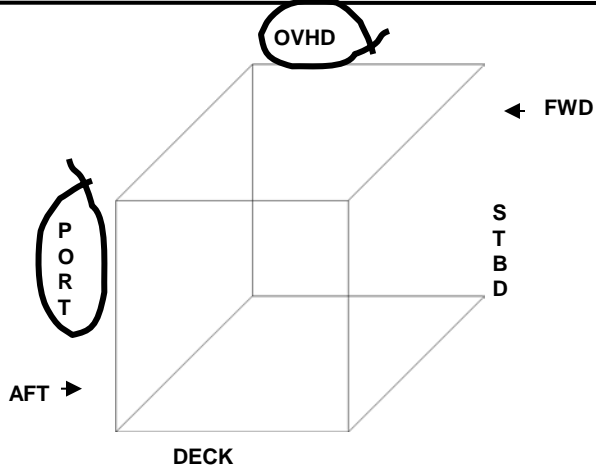
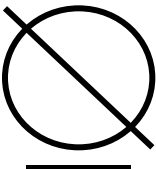




- Smoke : List color of smoke
- Fire extinguishing system: List system type, time manned, time activated / secured
- Flooding: List depth (in feet and inches), dewatering equipment used, if water is clean or contaminated
- Firefighting water: List depth (in feet and inches) and dewatering equipment used or recommended
- Progressive flooding: List depth of water (in feet and inches) and dewatering equipment used or recommended, approximate rate of water entering
- Ruptured piping system: List system type, cut out valve numbers, sys effected
- Structural damage: List type of damage and recommended shoring used
- Jammed fitting: List fitting number and type

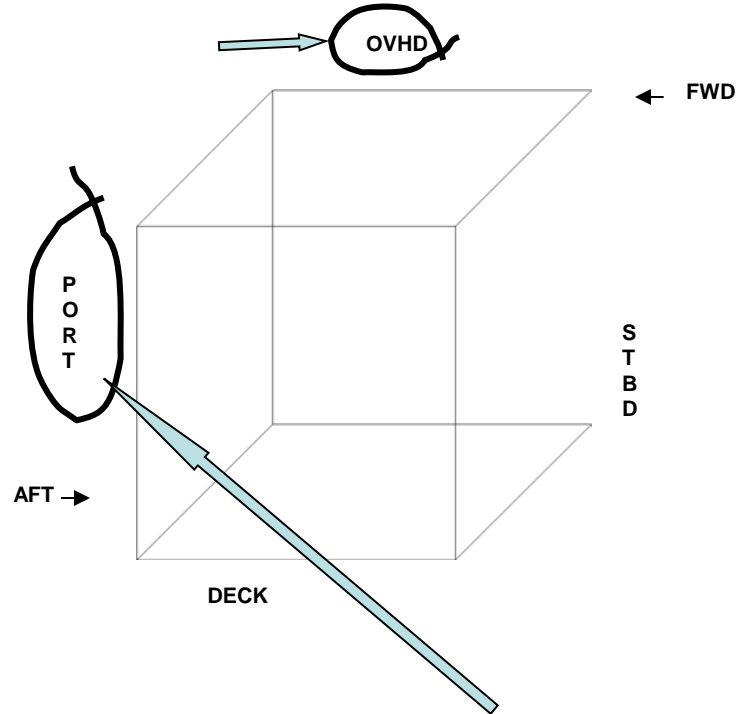
Note Area (cont)



- Hole: List size of hole (in feet and inches)
- Communications lost: List circuit(s)
- Electrical damage: List equipment or system
- Mechanical failure: List equipment or system
- Personnel casualty: List person's name and billet (if known)
- Weapon casualty: List weapon type
- Toxic gas: List hazard (if known)
- Chemical contamination: List agent (if known) and location
- Biological contamination: List agent (if known) and location
- Radiological contamination: List intensity (if known) and location

<u>R</u> <u>FM</u>	TIME <u>1627</u> NUMBER <u>1</u>										
	FROM _____ TO _____										
	<input checked="" type="checkbox"/> <u>FM</u> - INV - SL _____ DCRS 2 _____ DCRS 3 _____ DCRS 5 <input checked="" type="checkbox"/> _____ DCC										
	COMPT. #/NAME <u>2-58-2-Q</u>										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">BOUNDARIES</td> <td style="width: 10%;">S</td> <td style="width: 10%;">P</td> <td style="width: 10%;">P</td> <td style="width: 10%;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Leak is in the overhead.



Leak is on the port side of the space in the overhead.

Mechanics of plotting Boundaries

Three primary reports are recorded on the DC plates 2&3 that represent the two key events in setting Boundaries:

Boundaries Ordered **FB**

Boundaries Set **FB**

Mechanics of plotting Boundaries

FB - Fire Boundary: Primary and secondary around fire.

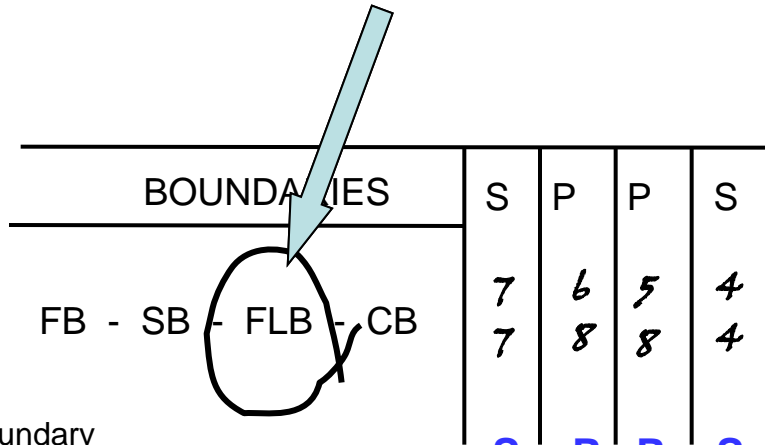
SB - Smoke Boundary: Smoke Primary and secondary around smoke.

FLB - Flooding Boundary: Flooding Boundary: Primary and secondary around Flooding.

CB - Casualty Boundary: Casualty Boundary: : Primary and secondary around multi casualty area. Example: A missile strikes the ship aft, casualty boundaries are set around the area.

Boundaries

Flooding Boundary Set



- FB - Fire Boundary
- SB - Smoke Boundary
- FLB - Flooding Boundary
- CB - Casualty Boundary

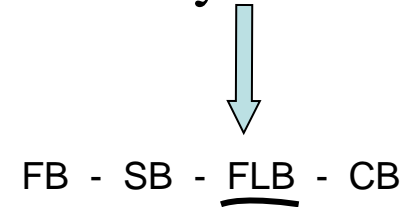
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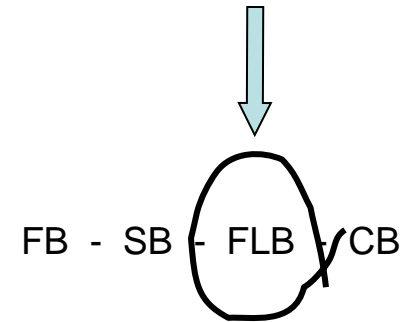
P
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Boundaries Ordered
indicated by dash



Boundaries Set
indicated by circle



Boundaries

—	TIME <u>1635</u>	NUMBER <u>6</u>
	FROM	TO
○	X <u>FM</u> - INV - SL	
		DCRS 2
		DCRS 3
		DCRS 5 X
		DCC
	COMPT. #/NAME <u>2-58-2-Q</u>	
	FRAME <u>60</u>	
	REMARKS:	
○	OVHD	
	BOUNDARIES	S P P S
	FB - SB - FLB - CB	7 6 5 4
		7 8 8 4

Flooding Boundary Set

BOUNDARIES	S	P	P	S
FB - SB - FLB - CB	7	6	5	4
	7	8	8	4

- FB - Fire Boundary
- SB - Smoke Boundary
- FLB - Flooding Boundary
- CB - Casualty Boundary

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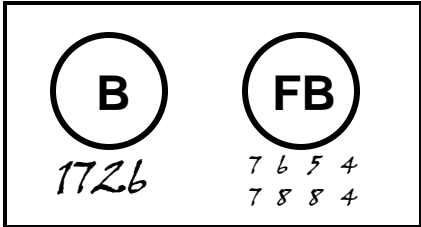
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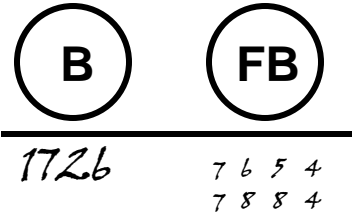
Boundaries section

Manual Plotting Methods

1. Box Method



2. Line Method



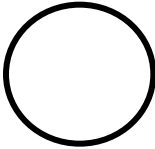
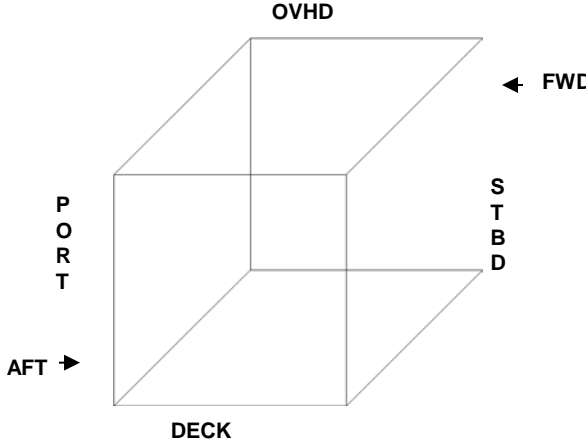

3. Column Method



The following seven slides display message writing examples for:

- Fire
- Flooding (2)
- Ruptured Piping
- Structural Damage (2)
- Chemical Attack

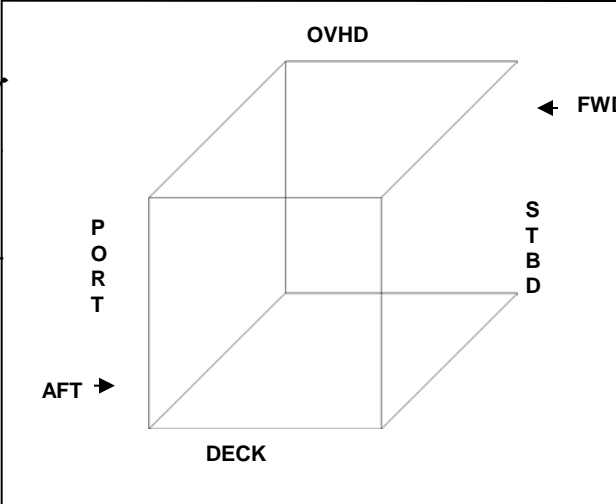
Fire

	<p>TIME <u>1623</u> NUMBER <u>9</u></p> <p>FROM _____ TO _____</p> <p>_____ <input checked="" type="checkbox"/> <u>FM</u> INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 <input checked="" type="checkbox"/> _____</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME _____</p> <p>REMARKS:</p>										
											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BOUNDARIES</td> <td style="width: 12.5%; text-align: center;">S</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Flooding

<p style="font-size: 2em; text-align: center;"><u>FL</u></p> <p style="font-size: 1.2em; text-align: center;"><u>5 FT 6 IN</u></p> <p style="text-align: center;">↑</p>	<p>TIME <u>1623</u> NUMBER <u>1</u></p> <p>FROM _____ TO _____</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">✗</td> <td style="width: 50%; text-align: center;">(FM) INV - SL</td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">DCRS 2</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">DCRS 3</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">DCRS 5</td> <td style="text-align: center;">✗</td> </tr> <tr> <td></td> <td style="text-align: center;">DCC</td> <td></td> </tr> </table> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME _____</p> <p>REMARKS: <u>Clean SW</u></p>	✗	(FM) INV - SL			DCRS 2			DCRS 3			DCRS 5	✗		DCC	
✗	(FM) INV - SL															
	DCRS 2															
	DCRS 3															
	DCRS 5	✗														
	DCC															
<p style="text-align: center;">○</p> <hr style="width: 50%; margin: auto;"/>	<div style="text-align: center;">OVHD</div>															
<p style="text-align: center;">○</p> <hr style="width: 50%; margin: auto;"/>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50%;">BOUNDARIES</td> <td style="width: 12.5%;">S</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB									
BOUNDARIES	S	P	P	S												
FB - SB - FLB - CB																

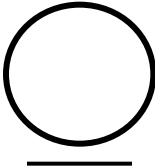
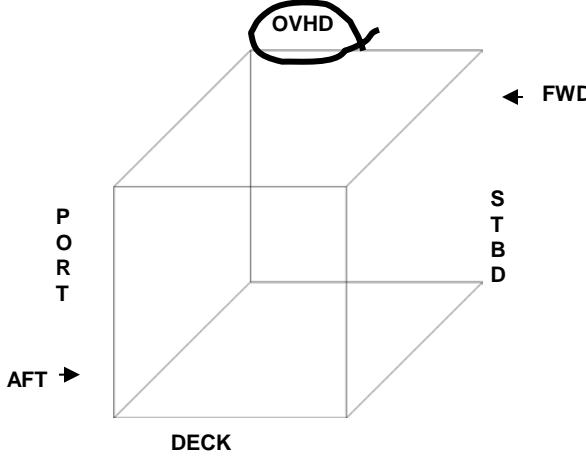
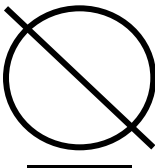
Flooding

	<p>TIME <u>1632</u> NUMBER <u>2</u></p> <p>FROM _____ TO _____</p> <p>_____ X <u>FM</u> - INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____ X</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME _____</p> <p>REMARKS:</p>										
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> F L </div> <p style="text-align: center; margin-top: 5px;"><u>2FT 4 IN</u> ESP ↓</p>											
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> / </div>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BOUNDARIES</td> <td style="width: 12.5%; text-align: center;">S</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Ruptured Piping

	<p>TIME <u>1623</u> NUMBER <u>3</u></p> <p>FROM _____ TO _____</p> <p>_____ <u>FM</u> INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____ _____</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME _____</p> <p>REMARKS: <u>COV2-218-2</u></p>										
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> R </div> <hr style="width: 50%; margin: 5px auto;"/> <div style="font-size: 2em; font-weight: bold; margin: 0 auto;">FM</div>											
<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> / </div> <hr style="width: 50%; margin: 5px auto;"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">BOUNDARIES</td> <td style="width: 12.5%; text-align: center;">S</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">P</td> <td style="width: 12.5%; text-align: center;">S</td> </tr> <tr> <td style="text-align: center;">FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Structural Damage

<p>STR</p> <hr/> <p>SAG</p>	<p>TIME <u>1623</u> NUMBER <u>1</u></p> <p>FROM _____ TO _____</p> <p>_____ <input checked="" type="checkbox"/> <u>FM</u> - INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____ <input checked="" type="checkbox"/></p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME <u>226</u></p> <p>REMARKS:</p>										
											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BOUNDARIES</td> <td style="width: 12.5%;">S</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Structural Damage

	<p>TIME <u>1623</u> NUMBER <u>2</u></p> <p>FROM _____ TO _____</p> <p>_____ <u>FM</u> INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>2-210-2-A</u></p> <p>FRAME <u>231</u></p> <p>REMARKS: <u>Steel Shoring I type</u></p>										
<p><u>STR</u></p> <p><u>Sag</u></p>											
<p>_____</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">BOUNDARIES</td> <td style="width: 12.5%;">S</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">P</td> <td style="width: 12.5%;">S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB				
BOUNDARIES	S	P	P	S							
FB - SB - FLB - CB											

Chemical Attack

<p><u>CHM</u></p> <p>_____</p> <p>Nerve</p> <p><u>M-9</u></p>	<p>TIME <u>1623</u> NUMBER <u>1</u></p> <p>FROM _____ TO _____</p> <p>_____ <u>FM</u> - INV - SL _____</p> <p>_____ DCRS 2 _____</p> <p>_____ DCRS 3 _____</p> <p>_____ DCRS 5 _____ _____</p> <p>_____ DCC _____</p> <p>COMPT. #/NAME <u>weather deck</u></p> <p>FRAME <u>162</u></p> <p>REMARKS: <u>MWB davit</u></p>									
	<p>OVHD</p> <p>A 3D perspective drawing of a rectangular structure. The top surface is labeled 'OVHD'. The left side is labeled 'FWD' with an arrow pointing left. The right side is labeled 'AFT' with an arrow pointing right. The front face is labeled 'PORT' with the letters 'P', 'O', 'R', 'T' stacked vertically. The back face is labeled 'STBD' with the letters 'S', 'T', 'B', 'D' stacked vertically. The bottom surface is labeled 'DECK' and is circled with a hand-drawn line.</p>									
	<table border="1"> <tr> <td>BOUNDARIES</td> <td>S</td> <td>P</td> <td>P</td> <td>S</td> </tr> <tr> <td>FB - SB - FLB - CB</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	BOUNDARIES	S	P	P	S	FB - SB - FLB - CB			
BOUNDARIES	S	P	P	S						
FB - SB - FLB - CB										

Summary

- Simple in concept
- User Friendly
- Supported by shipboard flag training kit.
- Provides a clear “Big Picture”
- Support transition from paper to standard e-Damage Control, DCAMS software, Laptops in DCRS, PDA’s at the scene and wireless data.