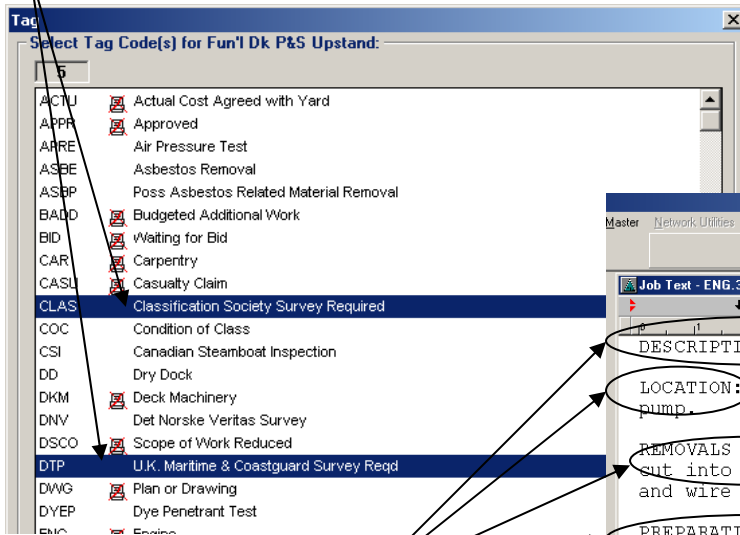


## Tag codes

Provide a quick and simple way for ship's staff to indicate what is involved in a defect or job without any typing.



## On screen 'forms'

Each time a defect is recorded, REFMAN automatically displays a 'company' standard form which contains prompts to remind ship's staff about what information is required for the particular type of defect which is being recorded.

## Simple Drawing Tool

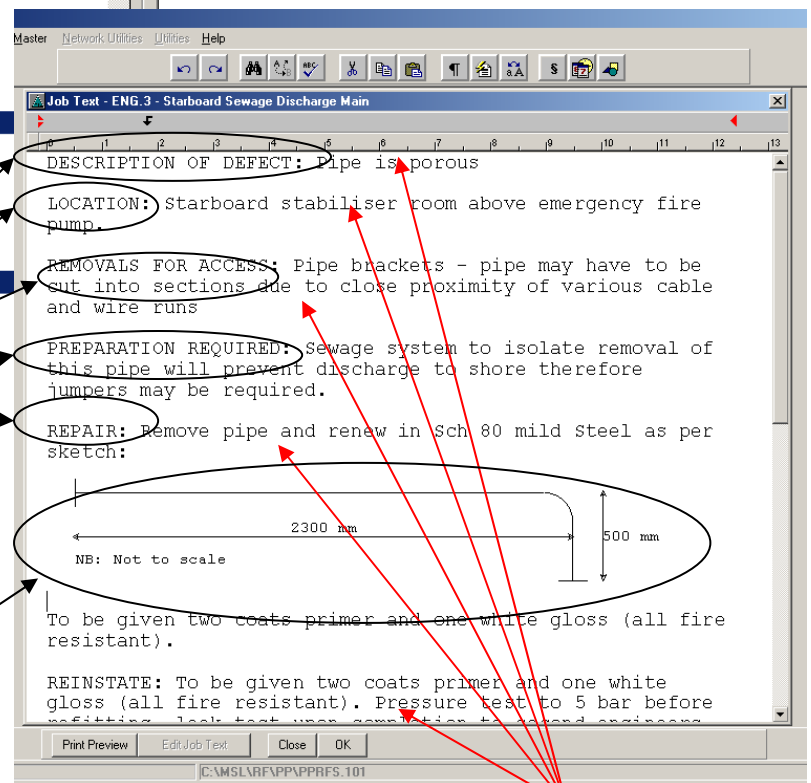
REFDRAW for line drawings, sketches & annotating digital photographs and scanned images.

## 3 Simple steps to writing a defect report

- Type a brief title for the defect.
- Type a few words against the prompts in the standard form.
- 'Tick' the tag codes which are relevant.

...and that is all there is to it ...which should ensure that the Superintendent never sees a 'one-line' defect description again...

...and ensure that the description actually contains all of the information which the Superintendent needs.



**ship's staff type this**

## Overview

Recognising the part that ship's staff play in initiating many of the 'repair' type items in a drydock specification, REFMAN was designed to provide a smooth transition for each specification item from 'defect report', through to inclusion as a 'job' in a specification and to its eventual completion.

This is achieved by providing a defect reporting system for the ship's staff which enables them to record defects in a format which can be transferred to the Superintendent or Port Engineer and incorporated directly into a repair specification without any sorting, filing or re-typing.

This makes it quicker and easier for the Superintendent or Port Engineer to get ship initiated jobs into the specification.

REFMAN's Shipboard Defect Recording module is easy to use by ship's Engineer and Deck Officers, even if they have little or no previous computer experience.

Through the use of standard forms in conjunction with standard 'tag' codes, REFMAN's Shipboard Defect Recording module makes it easier for the ship's Engineers and Deck Officers to provide the information which the Superintendent or Port Engineer requires in order to prepare the specification.

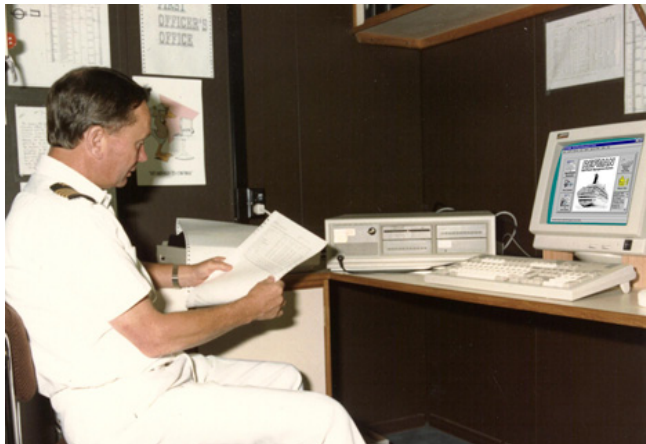
Also, because the Shipboard Defect Recording Module is cross-referenced with REFMAN's Specification Generator, when the specification is eventually produced, the ship's staff can easily confirm that all of the defects which they have reported actually found their way into the specification.

## REFMAN – Shipboard Defect Recording

Provides ship's staff with facilities to record defects on board, including creating and storing defect lists, adding, amending, deleting and cancelling defects, moving defects from one list to another, printing defect lists and transferring all defects for a particular period to the Superintendent or Port Engineer.

REFMAN allows you to create any number of defect lists. Lists can be 'exportable', that is to say that the defects they contain can be transferred to the Superintendent or Port Engineer, or they can be 'non-exportable' which means that they can be used as 'private' or 'departmental' onboard work lists for ship's staff.

Jobs in 'private' work lists can start out as 'one-line' items which are simply deleted as they are completed. Those that can not be completed by ship's staff can later be expanded into a full defect description before being assigned to the 'exportable' list ready for transferring to the Superintendent or Port Engineer and eventually included as a job in a specification.



Easy to use by ship's staff.

REFMAN also allows ship's staff to 'tag' jobs as being of a particular type or as having particular requirements. Using these 'tag codes' it is very easy for ship's staff to produce a work list for use in a stand-down period or when there is a total shutdown planned.

### Features

- On board recording of defects and job descriptions.
- Pre-defined sections for ease of use and ease of printing.
- On screen forms to ensure that ship's staff are always prompted to provide a full description of every job.
- Simple to use defect writing facilities with drawing tool for line drawings, sketches and annotating photographs and other scanned images.
- Easy to use save and recall facilities which allow defects to be added, amended or cancelled at any time.

No	Ships	Defect Lists	Sections	Jobs	Printing
1	Stabiliser ridge pump suction manifold	EXPORTED	DEM		NET 01 ENO 1 30-SE
2	Auxiliary Engine exhaust heat shields	EXPORTED	DEM		NET 01 ENO 2 30-SE
3	Boiler fuel shut off valves	EXPORTED	DEM		NET 01 ENO 3 30-SE
4	Main and Auxiliary engine cooling water storage tank	EXPORTED	DEM		NET 01 ENO 4 30-SE
5	Evaporator condensate salinometer	EXPORTED	DEM		NET 01 ENO 5 30-SE
6	Bow Propeller	EXPORTED	VMCC	DDDTPLJHNSGTAQ	NET 01 ENO 6 25-JU
7	Port Tailshaft	EXPORTED	VMCC	DDDTPLJHNSGTAQ	NET 01 ENO 7 25-JU
8	Gas Oil Tank Contents Gauge	EXPORTED	VMCC	DTPFRSAGHSHOTLOWENT	NET 01 ENO 8 25-JU
9	Fresh Water Distribution Pumps	EXPORTED	VMCC	FRESHHOT	NET 01 ENO 9 25-JU
10	Aux Eng and Stabiliser Flat Cloropacs-Bondstrand	EXPORTED	VMCC		NET 01 ENO 10 25-JU
11	Lido Pool Circulating System Pipework-Bondstrand	EXPORTED	VMCC		NET 01 ENO 11 30-MA
12	Aux Engine Resistor Mountings to Renew	EXPORTED	VMCC	ASBIDTPFRFELLOWHOTWORK	NET 01 ENO 12 30-MA
13	Aux Engine Scavenge Air Control Valves- to Overhaul	EXPORTED	VMCC	FRESHHOTSUBHOTWOLK	NET 01 ENO 13 30-MA
14	Fwd Sewage Tanks in Cofferdams-NRV's to fit	EXPORTED	VMCC	FRESHHOTPERMHOTWORK	NET 01 ENO 14 01-OC
15	Port & Sbd Boiler Burners to Change to Rotary Cup	EXPORTED	VMCC	LIGHLOWSUBHOT	NET 01 ENO 15 01-OC

Defects transferred to Superintendent are marked as 'exported'.

- Automatic numbering of defects as they are added to a defect list.
- 'Tag' codes to provide defects with a succinct summary of the job contents and to enable defects to be grouped into work lists or 'mini-specifications'.
- Flexible printing facilities which allow printing of a complete defect list; a single section; an individual defect; just defects of a particular type, or print just a summary showing job requirements or assigned priority.
- Facilities for each ship's Engineer and Deck Officer to maintain private 'non-exportable' work lists with ability to transfer when necessary to the exportable defect list.

List ID	Ships	Defect Lists	Sections	Jobs	Status	Last Modified
PPNET15		C/OE WORK LIST				03-JAN-2002 11:41
PPNET16		C/OE WORK LIST				12-SEP-2001 09:12
PPNET18		ELECTRICIANS WORK LIST				02-SEP-2001 08:11
PPNET17		C/O WORK LIST				19-SEP-2001 09:14
PPNET10		EXPORTED DEFECTS @ 30-JUL-1999 09:16			CLOSED	30-JUL-1999 09:16
PPNET01		DEFECTS FOR HEAD OFFICE			EXPORTABLE	03-APR-2008 16:07
PPNET04		RUNNING DEFECTS @ 31-MAR-2001 13:17			CLOSED	31-MAR-2001 13:17
PPNET04		RUNNING DEFECTS @ 31-AUG-2001 13:19			CLOSED	31-AUG-2001 13:19
PPNET04		RUNNING DEFECTS				17-SEP-2001 13:45

Easy access to 'exportable', 'private' and 'running' defect lists

- Automatic generation of title page and 'page numbered' table of contents for all defect lists.
- Ability to 'carry-forward' active defects to a new list at the end of a reporting period with status history.
- Ability to transfer defects from ship to Superintendent for easy inclusion into a specification.
- Superintendent has full control over which ship initiated jobs are included in the specification and which are rejected. Accepted jobs may be allocated to any section in any specification. Rejected jobs can be cancelled, referred back to the ship or included in another work list.
- Ability for Superintendent to include, add and amend ship initiated jobs with little or no re-typing.

System Requirements: Win XP with 1GB RAM, Vista or Win7 (32 bit) with 2GB RAM or Win7 (64 bit) with 4GB RAM, 1 GB Free Hard Disk Space and a printer.