PREWDIX I

MALTA DUCKYARD - PERIOD OF SIEGE 1940 -- 1943.

During the first 9 months of the wer nothing unusual took place at Halte

most the withdrawal of the Floot to Alexandria and the Levant.

3. Mar Reids commended at deplaced on the day on which Italy entered the war11th June 1980 - and continued intermittently for over 3 years, the Jerciromes,
Deckyard and Exchange being the principal targets. (NATE: These were 3228 reids, 1106
of width were as right)

4. These attacks reached their peak during the first helf of 1942. Their strength and friquency them gradually dishinkshed with the success of the Allied runs in Hartyl Artice, and had occased altegether by October 1943 after the surrender of Rel

5. During this period the Doslywid establishments, amintained their constant effort to keep [18, 18]; he newfood by dealing with damage requires, defected, feeling storing, demisping and generally servicing as required the ships of operating forces, correspond their eccorts.

6. As many skilled worksen as would volunteer were transferred to Alexandria t man up the Dodyard there and for other bases in the Eartern Mcditerranean. Technical and Carrieral Steff were also transferred for the same purpose.

7, The Dockyard also did a considerable secunt of work for the other Services in Maite. Reports to vessels, plant and mechicary and manufacture of many thousands of settices, fittings and spare ports which were either not obtainable from the United Mangdom, or if chipped failed to service.

8. The Dockyard machines were adapted with considerable incomity for these purposes which in many cases were completely different from their normal functions.

9. In addition to the above, normines performed for the Cavil Government, impulsed conversion or machinery at the Generating Station and the Breweries to oll-fust burning, and provision of expert advice and assistance for the following withly important performs:

Flour Mills Concrating Station Shelter Construction Department

Organistion for Co-Ordination of Supplies (C.O.SUP)

40. Humbers of workers were loaned to the other Services as necessary for various urgest requirements. For example:—
(a) Servicing strongt until such time as the necessary ground-staff could

 (b) Clearance and restoration work at the seredremes, often under conditions of herdalip and much danger.
 (c) Skilled work at E.S.M.E. Workshops etc.

DOCKARD ACTIVE DEFENCE ORGANISATIONS

Ta September 1959 the Deckyard Defence Battery (30th L.A.A.Battery R.M.A(*)) was formed from amongst the Deckyard Officers and Workers, for the purpose of manufage the anti-director's game allocated to defend RM_Deckyard from states by lowe flying

12. The Sattery attained a strength of case 15 Officers and 512 O.R's, showed a first fighting spirit was descaling their throughout the period of six attacks on Halts. Its success and evidenced by the masher of honours given to the semicons-

- Major L.B. Bolton, Officer Commanding Lieutenant F.W. Angle Major L.T.H. Cooks R.A. (0,0) Sergeent L. Atep Sergeent H. Andress Bombardier G. Belsen Mention in Despatches. L/Bombardier H. Costles L/Sergeant R. Vella L/Dombardier S. Cacciettolo Gunner W. Atkins Gunner C. Zammit (1) Commondations by H.F. Gunner A. Pool Gunner L. O'Toole gallant conduct. Gunner C. Zemmit (2) Gunner V. Sultana Gumer P. Mangion

15. With the exception of a few men who rejoined the battery on a regular call sheet, all the Officers and men were returned to their normal Dockgrand caployment in July 1942.

Gunner G. Tabone

14. ANTI-PARACHUTIST COMPANY ("PARASHOTS")

In May 1940 a Company was formed from emongst the English officers and Agreement formers, with the Coptain of the Dockpart as Communicant for the defence of the Dockpart against stated by safeture troops. All numbers were truined in the use of the rifle and erganised in platons conforming to the A.R. sectional operation of

15. DOCKYARD GUARD

In June 1941, occasement on the stationing of a detachment of troops in the Dockyard, the "PARASHORS" were dishanded and a new corps, called the Dockyard Guard was corps. composed of all fit Agreement Tookson (in fulfilment of their Agreements) and a number of Dockyard Orleans who Vounteered for this service.

16. The duty or this Torce was to concentrate with the troops in the defence of the toolyand, and all meabers underward a consume ring to expect time to carry in exception. The process of the second countries when the process of the second countries are second of the second countries of the countries of the second countries of the second

17. CONDITIONS DURING BOMBING PERIOD

Hearmhile it was vitally messaary to excevate rock shelters for the protection of personal and important plant, and to get as many worlabors and offices a practically sited underground as quickly as possible. This work was present foreard with the limited labour evailable for the surpose.

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91. Many of the randities of Meral and Ceptian personnel from the Buisted Righds were ownessed in 1939 and early 1940 to two Four East, include Africa and Buittes Ringian. A large number of feetiles will resulted up to the second of the second and the second of the

19. It was not until April 1942 that the enemy concentrated air attacks on these barracks, which were then very severely damaged and had to be evacuated.

20. It had been sensesty from the start to provide living accommodation in the longyard for anti-required for A.D.P. and Fire orderies, and for sengrangy service, the best of the population of the Times Cities serve securated to one distant pieces in the lained. This resulted in the withdrawal of the shopping and deserted services which were necessary to enable staff to live distant toward accommodation them. Insymptomy research to the lained of the services which were necessary to enable staff to live distant to the services of the

21. The joint combons were now dispersed to living measure away from the lowlyard but states of amount of the week of the combon of the second to the sec

22. On 23rd Jehruszy 1942, owing to shortage of petrol and need for economy in temports, a 5 day working week was adopted throughout the Inland, To conform with this the Doulgard working hours becease 95 hours caftly, Monday to Thimswidy including, and 9 hours on Fridays and this erresposent worked very smoothly. The establishments reversely the hoursain 6 day working work on the November (94).

25. After each bombing reid prompt action was taken to clear debris and fill craters, so as to keep the readways and wherees as clear as possible to allow of the passage or the fire engines and other vital traffic.

passage of the fire engines sum offer visa traits.

Electric light, power and telephone cables were broken and the installations are allowed to action time after time. These vitally important services however were always reactored in a short space of time.

2b. The water and gas services were put out of action early in 1941. Improvize arrangements for supply of water throughout the Dockyard were organized by means of water-certs and tanks placed in shelter under rook as for as possible.

25. The torm or samples was completely isolated except by penaling through the bookyave, and was completely derived of water supply. A teak vessel from Tstutallies Tard was placed slongeside desgles Maring, to keep the ressining inhebitants supplied with water.

26. As much undersaged medicinery as could be so dealt with was transferred under rook shelter. Demaged medicary was rescued and brought into use again either wader rook shelter or in its original position. The damaged shops being patched up to provide the messaary proceeding from the weather.

27. Aggregations of Arge parties of personnel in the open or in exposed could like you would be evident. For busine and Pay Stations had been deschiable by manual work of the property of the

28. The cuminative effect of the damage nounted registry with the increasing force of the ridin. Dools were put out of use, orance and mechanism throughout the Lard were destroyed or rendered uncleas, tugs, lighters and bests were such, workshope described, and storms and throughout the Lard.

29. In order to maintain effective working, the Dockyard developed methods by which work usually done by machines, was done by hand. Though slow in operation, this meant that effective functioning was ettil meinteined.

30. EFFECTS OF DAMAGE

The sir attacks on Malta resched their peak in April 1942 during which month there were no less than 283 reids.

31. The situation then was as follows:-

(s) All dooks out of action. The only one capable of being used in the near future was No.4, provided assomy could be repaired astisfactorily and if power supply to the pumping station could be kept in repair.

(b) The whole electrical distribution system, including underground and overhead lines for power, lighting and telephones hat been repeatedly and severally designed. Limited electric supplies were restored intermittently in the Nos: 4 and 5 Dooks area and round lot, flook, lower could only be supplied with any reliability to the following workshops, which were underground:

M.C.D's Small Ship Fitters' Shop and Hand Benches M.E.D's Optical Instrument Repair Shop, Tool Room, Coppersmiths' Shop and Foundry

(c) No.1 Ship Pitting Shop was severely damaged and completely out of sotion, and machines were being transferred to the first chaster of the underground shop, the incomplete excevation work being suspended for the purpose. Knowation of second chamber was commenced.

(d) A limited amount of joinery and smiths' work could be undertaken by hand,

(e) Pending extensive repairs to air mains, compressed air supply was dependent upon portable compressors loaned free salvage plant and by Civil Government, about 5 compressors being serviceable at any one time.

(f) Electrical Regimering work was limited by lack of saturial rather than desage. The damaged workshops were in process of sorting into prepared sites underground or into such excessions as could receive them for the time being.

(g) Most of the Nevel Stores were under messes of debris. Both diesel fuel lighters were sunk, and R.F.A. "BOXXA" and two furnace fuel lighters desaged.

(h) Three tugs and one mooring vessel had been sunk, leaving only one tug and one mooring vessel swellable. The tug was undergoing extensive machinery receirs.

Many bosts and lighters had been destroyed and many severely damaged. There were some 3% wrecks in the dooks and harbours, besides remains of various lighters and small ereft.

(4) The Victualling Yard and other edjacent establishments were without light, power and telephones, the cable routes and distribution having been desaged in far more places than it had been possible to cope with.

(3) The Amsonst Depot was without power and light, and all hydrauliocramss were out of actions. A few hand crames were expected to be useable when the wheri could be cleared, but all railmy lines were broken, All of the workshop were desclibed and all the above-ground circum and laboratory rooms demaged. Some gum and mine sparse were recoverable, Half of the lightness had been suak. (k) The greater part of the Yerd area was pitted with orders and stream with debris, which in many places was of a messive nature and taugled with girders. Prequent air raids still continued to do desage.

32. RECUPERATION

At the end of July the situation was as follows :-

Dooks - No.4 - In full use, with power supply and welding facilities.

Mo.3 Out of use,

No.5 - Cut of use. No.5 - Freparations in hand for an attempt to repair the breach in dock walls. One pump serviceable.

Restoration proceeding satisfactority. Celles being led thing to entered to compare the root pessages to unifinise future risk of Telephones the compared to proceed to adjacent establishment but no S.H.F. supplies pyt possible.

Any motors for driving machine tools repaired and others in hand. Sufficient machines in operation to meet current requirements.

Compressed air available in No. 4 and 5 Docks and Factory

area, and being extended to No.1 Dook. Eight fixed and travelling cranes restored and operating.

In full working :-

Underground Compressor and Crygen Plant Underground Tool Room

Underground Gummounting Shop
Underground Fitting Shop
Tube Shop
Welding Tube Shop

Temporary Smithery Main Electrical Shop (Underground) Extempore electrical workshops for mains, yard mechinery

Working with limited output 100

No.1 Ship Fitting Shep No.3 Ship Fitting Shop (Underground) Joiners' Shop (extempore)

Copperentiths' Shop (Underground) Boiler Shop

Stores & | Recovery of Havel Stores proceeding. 'ROXOL' and two barges Fuelling | repaired and one of the barges reserved for dissel.

Light restored, also limited LMC valt D.C. power. Cmc 2 on corride and two 4; ten head crasse operable. Bond and single rail feellities restored. All verbalops functioning by head in improvised socomodahove ground stores and legentery in partial use. Becovery of burded setterial progressing.

18 lighters in service.

35. On 1st August 1942 the following signal was addressed to the Admirel

"The recompensive power of the Dockyard, and steady progress are most satisfying "You and all others connermed deserve high preise for what has been socomplished "in so short a time. Reese convey up congretulations to all." (7.0.0.1429)

34. At this period the further restoration of the electrical system was homored by shorting of chile and other asterials. In the case of the tolephone lines, or the next provided the chile state of the next incorrect lines of the next immortant lines are recovered from other routes and used for the regain

35. Repairs to buildings were rendered difficult owing to shortage of materials and the slowness of removal of spoil from underground excevations, this being handlesened by lack of fuel.

36. The next 5 months showed a steady increasing rate of progress towards normal working capacity, in spite of the continual air raids, shortage of supplies and plant, and the demands on the Kerd artising out of the development of Allied Operations for the Liberation of North Africa, Staily and Talay.

37. The great anxiety now was the shortage of food supplies in the Kaland. The August convoy brought partial ruller and supplies were carefully husbanded, but by October the outlook had become very grave.

58. Civilian rations had been reduced until there was scencely snything beyond a small ration of very poor quality bread and a very insufficient secount of cormed beef. The arrival of the freezon November convey towards the end of November 1942, brought the much needed relief just in the slot of time, and reserved what threetened to become the sain weakman of the Island's defences.

39. The situation at the end of December 1942 was as follows :-

No. 1 - In full working

2 In use for rail oraft. Wreek of "LANGE" had been floated and redecked on 29th October and undecked 12th December. Dock then counside by Geisson of 10.3 Dock for repairs. Newer and welding resilities excelled.

No. 5 - In use as a wet borth for small creft only as wrecks outside precluded, entry of anything larger than a trewler. Expected to be available with power and welding resultivies about end of Harch.

No. 4 - Repairs to Caisson and face of groove in hand, Expected to pump out mid January and commence work on weath of "KDMASTON"

No. 5 - Repairs to mesonry well advanced. Expected to pump out about 26th January.

Electricity and Telephones

Restoration progressing satisfactorily to meet all requirements. Supplies of power to Armsment Depot and Rinella not yet restored owing to lack of metorial.

Compressed Air

Leads extended to No.1 Dock via Cospicus, Store Wharf, Church Tunnel and N.C.D's Fitting Shop. All M.E.D's underground shops supplied and work in hand to supply to Boat House, Canteen and Farlatoric Wharves.

Workshops - Percentage of nermal capacity

C.D. Dept.	-	Sail Loft		50		
		Rigging House	(re-sited)	70		
Constructive	-	Smithery		85		
		Joiners		60		
		Paint Shop .		90		
		Plumbers		90		
		Sawmilla .		40	(stendily	improving
		Boat House		60		-
		merding		90		
		10.4 & 5 Dock	Shop	60		
		Destroyers Wor	kshop	90		
		Shin Fittedan C	house	co		41

Submarine Workshop . .

20

Engineering - Pitting Shop Copperaniths Motor Repair Shop . Tool Room Pattern Shop . Yard Machinery Shop Gunmounting Tube Shop Other Boiler Shops . Smithery All hand work. Low output. No heavy forgines Engineering Tool Room & Fitting Underground) Shop . Coppersmiths . . Foundry (Not yet complete) No.60 Fitting Shop No 60 Gunsounting If adequate supplies Electrical of material and stores were available

Oranes

Following crames had been repaired and in full operation :-

Burmole Wharf 20 tens Soiler Wharf 50 tens Ho.4 Dock 14 tens Ho.5 Dock 10 tens Machinery Wf: 5 tens (Six other 10 tens and E tens

(Six other 10 ton and 5 ton travelling orange, but limited by damaged tracks.) Canteen Wharf, one fixed, 4 tons Hemilton Wharf, one fixed, 4 tons being erected with 120 feet travel.

Naval Stores

Recovery progressing steadily.

Recovery progressing steedily. Greatly increased first-ling requirements being set successfully despite restricted fecilities. Length of 12" fuelling main to Dolphins, 250 feet Feconity receed.

Arunment Depot

Creetly increased commitments being met despite disabilities Laboratory work reduced by weather pending repair to buildings. Mins Shop, capenity (Aircreft Minss 100), Norrd Mins 60 (7) Nort of supply much hampered by lack of Hydrealis Creme Justem pending Tweetly of practice of the commitment of the

40. The limitations in general Yard capacity at the end of December 1942 were mainly due to :-

(a) Lack of berths alongside, owing to subserged wrecks,

(b) lack of docks (situation improved by early April).
(c) Lack of welding and compressed air facilities at available berths.

(d) Lack of sufficient portable air compressors and welding sets.
(e) Lack of inting facilities at smallsble borths.
(f) Lack of materials and stores.

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- 41. The redevelopment undertaken was dealt with on the following general lines :-
 - (a) Underground excessions to be provided as an alternative for all the more important workshops and plant.
 - (b) Re-conditioning of normal workshaps and provision or temporary aboveground accommodation for those times in (a) which had, of measuring, received a low priority, and for which it was not possible to provide rock over in the immediate future.

42. Much of the progress was achieved by salveging decaged machines and scrap materials which were freely used in extemporisation.

- 43. At the beginning of 1943 further progress was limited by the following factors :
 - (a) Civil Engineering Labour, of which there was a marked shortage due to heavy desends by all the Services and the Civil Government. This seriously affected exceedant on funderprinent shops, sub-stations etc, and
 - (b) Lack of materials for repairing and re-roofing damaged buildings.

repairs to buildings, roadways, meins etc.

(c) Shortage of stores of all kinds.

Tues

- (d) Lack of an experienced salvage party with full equipment adequate to clear sunten weekage from approaches to wherea and docks.
- (e) Additional supervising staff was required by all Departments in order to expedite the redevelopment programme.

44. On 18th Jemssry 1945 the Commender-in-Chief sent the following message to the Vice-Admiral, Melta and the Admiral Superintendent:-

A5. Hos. 3 and A Desks were brought into use again early in April 19A5, but the use of Hos. 2 and 3 Dooks was still restricted by the presence of wrocks in the approaches. The repairs to No. 5 Dook were estimatedorily completed so that on Ath July the Dook was resdy to take a Tribel Destroyer and on 24th July weekly to take a

46. In January 1925 in order to make the best use of the man power restable, the employment of rooms in the Dockyur men introduced for the first time. They were allocated to jobs which were normally performed by men, but which were well within the applicables are founce, thus releasing the men for other word of a neture required to the applicable and the manage as 700 women were employed, with manera, but it could not be described than a manage as 700 women were employed, with manera, but it could not be described. The manage is not a second with the trustitions and beliefs of the Middless recombing emperatury.

4.7. A Salvage Party arrived in February 1945 and set to work on the electrone of the dook approaches and harbours. During the period prior to the advent of the Salvage Farty, the Dookyard had salvaged the following vessels, in spite of the leek of adequate salvage plant, by persevering efforts and recommendal Exprovisation:

Mumber Salved Put back into Service

Drifters Trawler Steam & Hotor Boats	2 1 29	(sorepped)			
Lighters (Dookyard) Lighters (Civil Govt:)	32 104) 121			

1

Whilst.

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48. Whilst recovery was in progress the Dockyard was faced with additional problems connected with the preparations for the invesion of Sicily and Realy for which Malks was the assembly port.

49. At this stage the receipt, storage, and disposal of Heral Storas became a particularly difficult matter. Malta came into use as a storage and trensit port for wate quantities of storage of all kinds destined for verious future of annual bases. The lost stretchouse could not be specialt, and space was not evailable in the Dockpurk. All dutable accommodation alsowhere had already been taken up.

50. As constal clearance progressed and misses buts could be obtained and erected, some improvement book place, but the wast quantities of stores and materials to be dealt with continued to increase, presenting a formidable problem.

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