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TCS 1404/64-KH
G-MB - 200/64
9 March 1964
Copy 1

MEMORANDUM FOR: Chief, Military Economic Division, ORR


25X1A

ATTENTION : 
THRU : Chief, RB/RG/CGS
FROM : Chief, CIA/PID (NPIC)
SUBJECT : Unidentified Vessel Along East Wharf of Large Fitting Out Basin, Nikolayev South Shipyard 444 (NOSENKO), USSR; Photo Study
REFERENCES : (a) Requirement No. C-RR4-80,954 (Project No. C 94-64)
(b) US NAVPIC 103063901 of November 1963 (first edition copy)
(c) US NAVPIC 103063901 of December 1963 (second edition copy)

1. In response to Requirement No. C-RR4-80,954 (C 94-64), a photo analysis was performed on KEYHOLE Mission  coverage of Nikolayev South Shipyard 444 (NOSENKO), USSR, (46 57N-31 58E) in order to determine the dimensional characteristics - and, if possible, to identify - a large vessel tied alongside the East wharf of the fitting out basin. This vessel has previously been identified as "probably a DON Class Submarine Tender/Command Ship. (See reference (b).) In addition, an attempt was made to identify other vessels berthed at the fitting out basin of the Nosenko Shipyard. 25X1D

2. The hull configuration and topside detail visible in the KEYHOLE photography indicate that the vessel observed alongside the East wharf is a probable naval combatant. Furthermore, it is quite likely that this vessel is still under construction - and that several portions of the topside superstructure and/or armament are not as yet fully completed. This, in part may explain the difficulty encountered in attempting an identification of the probable bridge area and the superstructure area abaft of the funnel. Given this limitation plus those of small scale and poor photo imagery, it is, nevertheless, possible to arrive at the following conclusions concerning this vessel:

(a) Over-all dimensions are approximately 480 ft. x 60 ft.

(b) This vessel does not appear to equate in topside detail with 

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DECLASSIFICATION REVIEW BY NIMA / DoD

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GROUP 1
Excluded from automatic
downgrading and
declassification

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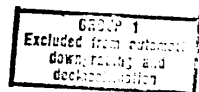
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3. A total of six large vessels and one probable large vessel were observed at NOSENKO Shipyard. In addition to the unidentified probable naval combatant (480 x 60) alongside the East wharf, the other identifiable vessels observed were: a POLTAVA Class merchant vessel (500 x 70); a probable LENINSKIY KOMSOMOL Class merchant vessel (565 x 70); a second probable POLTAVA Class (500 x 80); and a possible MAYAKOVSKIY Class Fish Factory Trawler (275 x 50). The length-beam figures represent the averages (rounded off to the nearest 5 feet) of four measurements, derived from the Mann comparator, made for each dimension. No attempt was made to have these approximate results correspond exactly with the known dimensions of specific vessels. One vessel (a probable merchantman - 380 x 60) and one probable vessel (also a probable merchantman) could not be identified due to poor imagery. An approximate scale drawing of the NOSENKO Fitting Out Basin, describing the position of each vessel observed, is forwarded as enclosure (3) to this memorandum.

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4. Mensural analysis of all vessels, as well as the inner dimensions of the fitting out basin, was performed by the Technical Analysis Branch, TID (NPIC) - and the results verified by the project analyst. All dimensions used in this report are in feet. It should be noted that all measurements are approximate due to limitations imposed by poor image quality, film halation, and small scale. All measurements were derived from the original duplicate positive from KEYHOLE Mission [REDACTED]. Stereoscopic coverage was poor due to the very poor quality of the forward exposure.

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5. Forwarded for your retention are one annotated photo reproduction of page 3 of US NAVPIC 103063901 dated November 1963, one approximate scale drawing derived from KEYHOLE Mission [REDACTED] coverage of NOSENKO Shipyard Basin and the vessels observed therein, and two unannotated photo enlargements from KEYHOLE Mission [REDACTED] coverage of Nikolayev (CIA/PID/GMB/P-641/64 and P-642/64). The prints were made from third generation negatives since the original negatives were not immediately available.

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6. The photo analysis on this project was performed by [REDACTED] CIA/PID/GMB (NPIC), who may be contacted on ext. 2548 for any additional information.

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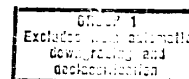
7. This memorandum with enclosures completes the referenced requirement.



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ENCLOSURES:

- (1) Annotated Photo Reproduction of Page 3 of US NAVPIC 103063901 dated November 1963.
- (2) Table of Pertinent Comparative Data - Topside Detail of Unidentified Vessel at East Wharf, Nikolayev Shipyard 444, Compared with Significant Superstructure Detail on Other New, Large Soviet Naval Combatants.
- 25X1D (3) Approximate Scale Drawing of Nikolayev South Shipyard Derived from KEYHOLE Mission [REDACTED]
- 25X1D (4) Two unannotated Photo Enlargements of Nikolayev South Shipyard from KEYHOLE Mission [REDACTED] (CIA/PID/GMB/P-641/64 and P-642/64).





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Fig 2



Fig 3

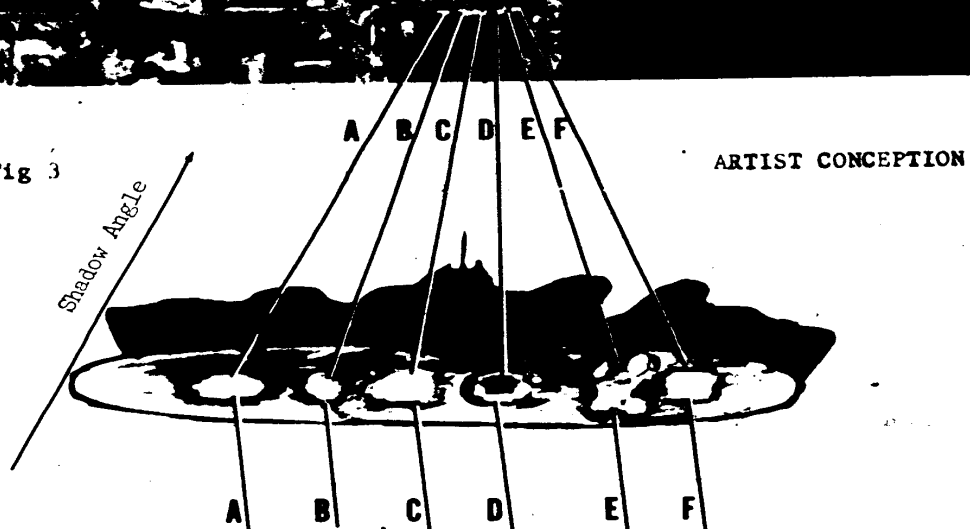


Fig 4

"Don" Class Submarine Tender

A-FWD 3.9"/56DP Gun Batteries
 B-FWD 57mmAA Twin Gun Batteries
 C-Bridge

D-Funnel
 E-AFT 57mmAA Twin Gun Batteries
 F-AFT 3.9"/56DP Gun Batteries

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TABLE OF PERTINENT COMPARATIVE DATA

Topside Detail of Unidentified Vessel at East Wharf, Nikolayev Shipyard 444
Compared with Significant Superstructure Detail on Other New, Large Soviet Naval Combatants

	Unidentified Probable Naval Combatant at Nikolayev Shipyard 4444	DON AS	KASHIN DDG	KYNDA DDG	KRUPNY D 25X1D
Length Over All	480 ft. (approx.)	460 ft.	510 ft. (approx.)	465 ft.	
Number and Size of Stacks and Position Relative to mid-point of ship	One very large (long) funnel only is visible - located <u>directly amidship</u> (major axis fore and aft)	One very large (long) funnel located; <u>approx. 40 ft. abaft the mid-point of the vessel.</u> (major axis fore and aft)	One small steam turbine exhaust funnel and one probable large gas turbine exhaust - <u>both located slightly forward of amidships</u>	Two medium sized wide stacks located amidships (major axis athwartships)	Two small stacks located amidships
Number of pairs (in-line athwartships) of 57 mm AA batteries and location	One pair of possible 57 mm AA batteries located approx. 110 ft. from stern of vessel. None visible forward of funnel	One pair of 57 mm AA batteries located approx. 105 ft. from stern and one pair approx. 170 ft. from bow.	None visible on very poor photography	None	One pair of AA batteries located nearby ships
Number and location of SSM launchers	One possible set of SSM launch tubes (LOA approx. 35 ft.) begin approx. 50 ft. fwd of the stern	None	None visible on very poor photography	Two SSM launchers. One fwd of bridge and one abaft the after stack. (LOA each launcher: [REDACTED])	One narrower guided missile launcher fwd one aft.
Number of large DP gun mounts	Two possible DP gun mounts in tandem beginning approx. 60 ft. from bow (LOA of fwd rectangle is approx. 45 ft. - may be SAM or ASW equip.)	Two DP mounts in tandem approx. 80 ft. from bow and two DP mounts in tandem approx. 45 ft. from stern	One DP mount approx. 70 ft. from bow and one DP mount approx. 70 ft. from stern	Two gun mounts located in tandem abaft aft SSM launcher. None forward	None

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