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PHOTOGRAPHIC INTERPRETATION REPORT



SOUTHEAST ASIA ACTIVITY REPORT

HANOI-THANH HOA RAIL SEGMENT NORTH VIETNAM

NPIC/R-49/68 COMPENDIUM 81 MAY 1968

GROUP 1 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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Summarv

The Hanoi/Thanh Hoa rail segment is the northern 94 nm of the 169 nm Hanoi/Vinh Rail Line. It is a single track, meter-gauge line which was originally constructed by the French. The communists have been able to maintain the rail segment to Thanh Hoa well enough to continue using their conventional rolling stock and steam locomotives. South of Thanh Hoa, however, poor track conditions and weak bridge structures have forced them to use smaller, modified, 2-axle rolling stock. Material is transloaded at two transshipment/transloading points in Thanh Hoa (see Items 107 and 108) and at the Thanh Hoa Rail Yard. A forthcoming summary will complete

The rail segment has 15 rail yards and 13 passing tracks. Although most of them have been subjected to U.S. airstrikes, a continuing effort is made by the North Vietnamese to repair damage as soon as possible. The yards average 1,500 ft long and 3 tracks wide and passing tracks average 1,400 ft in length. There is either a rail yard or passing track an average of every 3.5 nm with 6 nm the longest distance between a yard or passing track.

The rail segment has 19 rail spurs, six dead sidings, and 24 rail by-passes. The spurs usually service transshipment, storage, or small industrial areas. The sidings, all less than 1,200 feet long, are used for storing rolling stock.

Six transshipment points, including two transshipment/transloading points, are located at strategic points on the rail segment. Five are road-to-rail and one is water-to-rail.

Two of the three major storage areas on the rail segment are for coal, the third is a general storage area with open storage and 16 buildings. All three are in the Hanoi region.

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7. Hanoi Rail Ferry Crossings over the Red River, 20-59N 105-54E Three rail ferry crossings are located on a rail bypass 25X1D which circumvents the Hanoi area and connects the Hanoi-Haiphong rail line to the Hanoi-Thanh Hoa rail line. The rail ferry crossings consist of high, medium, and low water rail ferry slips. All 3 sets of rail ferry slips are serviceable but because of changing water levels only one set of slips is operational at any one time. (Figure 2). 25X1D 8. Thuong Thon Rail Siding, 20-59N 105-53E . Short rail sidings parallels an approach to the Hanoi rail ferry crossings. 25X1D 9. Thuong Thon Rail Spur, 20-59N 105-53E Short rail spur extends east from an approach to the Hanoi rail ferry crossings. This spur serves an excavation which is a probable source of sand. Six pieces of earth-moving equipment are in the area. 25X1D 10. Hanoi Coal Storage Area, 20-59N 105-50E . Two short rail spurs extend west from the main rail line to a secured coal storage area. (Figure 3). 25X1D 11. Phuong Liet Transshipment Area, 20-59N 105-50E Railserved transshipment area contains 3 support buildings, a probable jib crane and stacks of unidentified material. (Figure 3). 25X1D 12. Phuong Liet Coal Storage Area, 20-59N 105-50E). Small rail-served coal storage area east of the main line. (Figure 3). 25X1D 13. Phuong Liet Rail Bridge, 20-59N 105-50E (Serviceable • single-span rail bridge over a drainage ditch. 25X1D 14. Giap Nhat Rail Yard, 20-58N 105-50E • Approximately 1,600 ft long by 3 tracks wide, the yard is approximately 70 yards west of the main rail line and is connected to the main rail line at both ends. 25X1D 15. Cau Tien Rail Bridge, 20-58N 105-50E Serviceable singlespan rail bridge over a drainage ditch. 25X1D 16. Cau Tien Rail Bridge East, 20-58N 105-50E Serviceable single-span rail bridge over a canal. 25X1D 17. Giap Nhi Rail Bridge SW, 20-58N 105-51E Serviceable single-span rail bridge over a canal. 25X1D 18. Giap Mhi Rail Bridge SE, 20-58N 105-51E Serviceable 2span rail bridge over a canal.

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FIGURE 2. HANOI RAILROAD FERRY CROSSING OVER THE RED RIVER, NORTH VIETNAM.

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FIGURE 3. TRANSSHIPMENT AREA, COAL STORAGE AREAS, HANOI, NORTH VIETNAM.

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FIGURE 4. QUYNH DO RAILROAD YARD, NORTH VIETNAM.

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NO FOREIGN DISSEM 25X1D Yard is approximately 33. Van Diem Rail Yard, 20-46N 105-54E (1,500 ft long by 3 tracks wide with a station building. (Figure 5). 25X1D Rail spur extends 1.1 34. Do Le Rail Spur, 20-46N 105-55E NM NE from the main rail line to a sugar refinery on the west bank of the Red River. 25X1D Serviceable single-35. My Lam Rail Bridge, 20-44N 105-55E span rail bridge over a canal. 25X1D . Yard is approximately 36. My Lam Rail Yard, 20-44N 105-55E 1,500 ft long by 3 tracks wide (only 2 tracks serviceable). All facilities have been destroyed. 25X1D Track is approxi-37. Yen Khoai Passing Track, 20-43N 105-54E mately 1,200 ft long. 25X1D Serviceable single-38. Yen Khoai Rail Bridge, 20-42N 105-54E (span rail bridge over a canal. 25X1D Serviceable 4-span 39. Bai Le Rail Bridge, 20-41N 105-54E rail bridge over a stream. 25X1D Track is approxi-Dong Van Passing Track, 20-38N 105-55E 40. mately 1,500 ft long. MAIN RAIL LINE CHOKEPOINT STATION BUILDING 43 PIECES OF ROLLING STOC INDUSTRIAL SPUR CHOKEPOINT M-3270

25X1D

FIGURE 5. VAN DIEM RAILROAD YARD, NORTH VIETNAM.

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- Phu Ly Multiple River Crossings over the Song Lap Ou Faux Canal Phu-Ly, 20-32N 105-55E. Main 4-span rail bridge at summer 25X1D viceable with 3 spans destroyed. Three-span by-pass bridge at
 25X1D is serviceable.
 - 42. Phu Ly Mail Yard, 20-32N 105-55E . Original yard was ap- 25X1D proximately 1,500 ft long by 4 tracks wide and contained a station building. Only one track is now serviceable to through traffic and the station building has been destroyed. A rail by-pass extends west around the yard.
 - 43. Fhu Ly Transshipment Area, 20-31N 105-55E Rail-served 25X1D transshipment area on the east bank of the Song Day (River). Facilities include a traveling jib crane, 2 probable jib cranes and a probable kiln for drying ore.
 - 44. Da Khieu Rail Bridge, 20-29N 105-59E (Serviceable single- 25X1D span rail bridge over a canal.
 - Station De Binh Luc Passing Track, 20-29N 106-00E Track 25X1D is approximately 1,400 ft long. Station building has been destroyed.
 - Thuong Tho Rail Bridge, 20-29N 106-01E (Serviceable 25X1D single-span rail bridge over a drainage ditch.
- 47. Do Thon Multiple River Crossings, 20-28N 106-02E. The main rail
 25X1D bridge at the partially destroyed; a camouflaged rail bypass bridge (probably 4 spans) at the new partial serviceable, however, 25X1D the NW approach has been interdicted.
 - 48. Thuong Dong Rail Bridge, 20-28N 106-02E Unserviceable 25X1D single-spen rail bridge over a canal. The bridge is slightly damaged and the NW approach has been interdicted.
 - L9. Sung Van Rail Yard, 20-27N 106-03E (Yard is approximate- 25X1D ly 1,600 ft long by 3 tracks wide (one track partially destroyed). All facilities have been destroyed.
 - 50. Mon Nhe Rail Bridge, 20-26N 106-05E _____. Serviceable single- 25X1D spen reil bridge over a canal.
 - Le Thon Rail Bridge, 20-26N 106-05E . Serviceable single- 25X1D span rail bridge over a stream.
 - Van Don Rail Bridge, 20-26N 106-07E Serviceable single. 25X1D span rail bridge over a canal.

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- 53. Van Don Rail Yard, 20-26N 106-07E . Yard was originally approximately 1,600 ft long by 3 tracks wide, but two tracks have been interdicted and are being used as storage spurs. All facilities have been destroyed. 25X1D
 54. Phu Oc Rail Bridge, 20-25N 106-09E . Serviceable single-span rail bridge over a stream. 25X1D
- 55. Nam Dinh Rail Yard, 20-25N 106-10E Approximately 1,800 ft long by 5 tracks wide. Facilities include a probable repair building, station building, and a turning wye. (Figure 6).

56. Nam Dinh Rail Spur, 20-25N 106-10E. Rail spur extends NE from the

25X1D main rail line at **Example** to serve the Nam Dinh complex. The main spur terminates with two tracks at a small open storage yard at

- 25X1D Short branch spurs serve industries at and 25X1D and a destroyed POL storage area at an A passing 25X1D track serves a transshipment area adjacent to the Nam Dinh Giang (River) at 25X1D
 - 57. Vu Ban Rail Bridge, 20-23N 106-09E (**25X1D** span rail bridge over a stream. 25X1D
 - 58. Duong Lai Rail Bridge, 20-22N 106-08E (Serviceable 2span rail bridge over a canal.
 - 25X1D 59. Trinh Xuyen Passing Track, 20-22N 106-08E (2000). Track is approximately 1,400 ft long and has a station building. 25X1D
 - 60. To Cau Rail Bridge, 20-21N 106-07E (Serviceable, probable 2-span rail bridge over a stream. 25X1D
 - 61. Luong Kiet Rail Bridge, 20-20N 106-05E **Serviceable**. Serviceable single-span rail bridge over a canal. 25X1D
 - 62. My Coi Rail Yard, 20-19N 106-04E Yard is approximately 1,400 ft long by 3 tracks wide. A turning wye is south of the yard adjacent to a hill. A rail by-pass is under construction to the north around the yard. (Figure 7).
 25X1D
 - 63. Ninh Xa Rail Bridge, 20-19N 106-03E Serviceable, probable 2-span rail bridge over a stream. 25X1D
 - 64. Trung Thon Passing Track, 20-17N 106-01E (Track is approximately 1,400 ft long and has a station building.
 - 65. Cao Bo Rail Bridge, 20-16N 106-00E (25X1D.). span rail bridge over a canal.

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FIGURE 6. NAM DINH RAIL YARD, NORTH VIETNAM.

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FIGURE 7. MY COI RAILROAD YARD, NORTH VIETNAM.

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- Ninh Binh Multiple River Crossings, 20-15N 105-59E. Main 7-span rail 66. and highway bridge at _____ is unserviceable (at least 4 spans 25X1D destroyed); rail ferry crossing at _____ is serviceable; multi-25X1D 25X1D span rail by-pass bridge at **sourceable** is unserviceable (at least 3 is serviceable; 25X1D is totally 25X1D spans destroyed); rail ferry crossing at 25X1D previously existing rail pontoon bridge at destroyed; and a rail ferry crossing at was under construc- 25X1D tion but construction apparently has been abandoned. A rail ferry 25X1D boat is located at (Figure 8). Or photography of 25X1D during a bombing pause, 3 rail ferry boats were attached end-to-end at the ferry crossing at providing a pontoon rail bridge 25X1D (Figure 8 & 9). 25X1D . Original yard was 67. Ninh Binh Rail Yard, 20-15N 105-59E (approximately 1,500 ft long by 4 tracks wide. The yard has been totally destroyed with no evidence of reconstruction. The yard is circumvented by two rail by-passes (Figure 9).
 - 68. Dong Trang Multiple River Crossings, 20-12N 105-58E. Main single-25X1D span rail bridge at the is unserviceable; five-span rail by-25X1D pass bridge at the is unserviceable with one span missing.



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FIGURE 8. NINH BINH RAIL FERRY/PONTOON RIVER CROSSING, NORTH VIETNAM.

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FIGURE 1. STORAGE AREA, HANOI, NORTH VIETNAM.

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- The Knoi Passing Track, 20-59N 105-54E (The passing track is approximately 900 fb long and is located on the northern approach to a rail ferry crossing on the Red River. 6.
- 4. Thon Ha Rail Bridge South, 21-00N 105-55E (single-span rail bridge over a canal. 25X11 25X1D Dong Da Ha Rail Bridge, 20-59N 105-54E
 span rail bridge over a drainage ditch. 25X1D . Serviceable two-
- 25X1D Serviceable
- Ngo Thon Rail Bridge, 21-01N 105-55E span rail bridge over a canal. 25X1D Thon Ha Rail Bridge North, 21-OON 105-55E (Serviceable single-span rail bridge over a canal. 25X1D
-). Serviceable single-
- DESCRIPTION OF SELECTED FACILITIES 25X1D 1. Hanoi Storage Area, 21-00M 105-50E area contains 13 storage buildings, 3 small support buildings, open storage, 3 oargo trucks, and 4 pieces of unidentified equipment. (Figure 1). 25X1D



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FIGURE 9. NINH BINH RAIL YARD AND RAILROAD RIVER CROSSINGS, NORTH VIETNAM.

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| | 25X1D |
| 69. | rail bridge over a stream. |
| 70. | span rail bridge over a stream. |
| 71. | 25X1D Ly Nhan Passing Track, 20-10N 105-56E 25X1D . Track is approxi- mately 1,400 ft long with a destroyed station building adjacent. |
| 72. | Dam Khanh Rail Bridge, 20-09N 105-56E 25X1D rail bridge over a canal. |
| 73. | Dam Khanh Rail Spur SW, 20-09N 105-55E. Serviceable spur termi- nating at the base of a hill at 25X1D |
| 74. | Quang Suoi Rail Spur East, 20-09N 105-55E. Serviceable spur termi- nating at a locomotive shelter at 25X1D |
| 75. | Quang Suoi Rail Bridge East, 20-08N 105-54E |
| 76. | Quang Suoi Passing Track, 20-08N 105-53E 25X1D completely destroyed with no evidence of reconstruction. Main track circumvents the area. |
| 77. | 25Х1D |
| ,,,, | Quang Suoi Siding SW, 20-08N 105-52E |
| 78. | Gare De Dong Giao Passing Track, 20-08N 105-52E 25X1D is approximately 1,400 ft long. Track |
| 79. | Gare De Dong Giao Rail By-pass Construction, 20-08N 105-52E. Con- |
| X1D | struction apparently has been abandoned on a rail by-pass from which circumvents a frequently interdicted area. |
| 80. | Gare De Dong Giao Rail Spur, 20-08N 105-52E. Serviceable rail spur extends north from the main line and terminates at the base of a hill at 25X1D |
| | Gare De Dong Giao Rail Spur South, 20-07N 105-52E. Partially ser- viceable rail spur extends south then west from the main rail line and terminates at the base of a hill at 25X1D |

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FIGURE 10. PHO CAN RAILROAD YARD, NORTH VIETNAM.

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- 88. Nhan Ly Rail Spur, 20-00N 105-51E. Partially serviceable rail spur
 25X1D extends SW from the main line and terminates at the base of a hill
 25X1D
 - 89. Dong Phong Thuong Rail Yard, 19-59N 105-50E (Yard is approximately 1,600 ft long by 4 tracks wide (two tracks have been destroyed/dismantled).

90. Dong Phong Thuong Multiple River Crossings, 19-58N 105-50E. The main

25X1D rail and highway bridge at where the rail by-pass bridge at 25X1D have been destroyed; a <u>9-span combination rail causeway</u>/

25X1D have been destroyed; a 9-span combination fail causeway bridge is under construction at a 6-span rail by-pass 25X1D

- 25X1D bridge at has been partially destroyed but there is evidence
- 25X1D of reconstruction; an 8-span rail by-pass bridge is under construction at the and a multi-span rail by-pass bridge at 25X1D is serviceable. A rail ferry boat is located west at 25X1D (Figures 11, 12, 13).
 - 91. Phu Dien Rail Spur South, 19-55N 105-49E. Partially serviceable rail spur extends east from the muin rail line and terminates at the base of a hill at **25X1D**



FIGURE 11. RAILROAD RIVER CROSSINGS, DONG PHONG THUONG AREA, NORTH VIETNAM.

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FIGURE 12. DONG PHONG THUONG RAILROAD RIVER CROSSINGS, NORTH VIETNAM.

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FIGURE 13. DONG PHONG THUONG RAIL BY-PASS BRIDGES, NORTH VIETNAM.

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| | 25X1D |
| 92. | Luong Xa Passing Track, 19-55N 105-49E (Contraction). Track is approxi- mately 2,000 ft long. 25X1D |
| 93. | Trinh Ha Rail Yard, 19-54N 105-49E (Yard is approximately 1,500 ft long by 3 tracks wide (one track dismantled). All facili- ties have been destroyed. (Figure 14).25X1D |
| 94. | Trinh Ha Rail Bridge, 19-54N 105-49EServiceable single-span rail bridge over a stream.25X1D |
| 95. | Phu Khe Rail Bridge South, 19-53N 105-48E Serviceable Serviceable single-span rail bridge over a drainage ditch. |
| 96. | Dong Khe Rail Bridge North, 19-53N 105-48E (Serviceable single-span rail bridge over a stream. 25X1D |
| 97. | Oui Chu Rail Bridge, 19-52N 105-48E Serviceable, cam- ouflaged rail bridge (probably 3-spans) over a drainage ditch. 25X1D |
| 98 . 25X1D | Phuong Dinh Multiple River Crossings, 19-51N 105-48E. The main rail line and highway bridge at have been partially destroyed; a 7-span rail by-pass bridge at stage of construction at span rail by-pass bridge is in a late stage of construction at (Figure 15). |
| 99 . 25X1D | Nghia Son Rail Siding and Turning Wye (abandoned), 19-50N 105-48E Manual An abandoned rail siding which terminates at an aban- doned turning wye is located on the NE bank of the Song Ma (River). |
| 100. 25X1D | Thanh Hoa Multiple River Crossings, 19-50N 105-47E. The main 2-span rail and highway bridge is serviceable, two rail ferry crossings consisting of 3 partially constructed and one constructed rail ferry slips are located in the vicinity of and a rail by-pass is under construction to the west around the main bridge from 25X1D to The angle of the approaches of this by-pass suggest a future rail ferry crossing. (Figures 16 and 17). |
| | . Tho Phuong Rail Overpass, 19-50N 105-47E (Rail overpass over Route 1A. |
| 102 | . Nam Ngan Rail Spur, 19-50N 105-47E. Short, holding spur extends SE from the southern approach of the Thanh Hoa rail ferry crossings at 25X1D |

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FIGURE 14. TRINH HA RAIL YARD, NORTH VIETNAM.

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FIGURE 15. RAILROAD RIVER CROSSINGS, PHUONG DINH AREA, NORTH VIETNAM.

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FIGURE 16. RAILROAD FERRY CROSSINGS, THANH HOA AREA, NORTH VIETNAM.

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FIGURE 17. THANH HOA RAILROAD AND HIGHWAY BRIDGE, NORTH VIETNAM.

103. Tho Hac Rail Bridge 19-49N 105-46E (span rail bridge over a stream. 25X1D

25X1D

25X1D

Serviceable single-

- 104. Dong Pho Transshipment Area, 19-L9N 105-L6E Facility consists of a vehicle turning loop adjacent to the main line and 3 semi-buried and 6 buried POL tenks near the turning loop. The area is located 0.6 NM north of Thanh Hoa Reil Yard. (Figure 18). 25X1D
- 105. Dong Tho 'fransshipment Area, 19-48N 105-46E (Construction). Facility consists of a road-served transshipment point on a rail by-pass to the west around the 'Fhanh Hoa Rail Yard. (Figure 18). ___25X1D
- 106. Thanh Hoa Rail Yard, 19-48N 105-46E . Original yard was approximately 1,800 ft long by 3 tracks wide. Air strikes have reduced the length of the yard to 1,100 ft. All facilities have been destroyed. An abandoned turning wys is located north of yard. Two rail by-passes circumvent the yard. The presence of both conventional rolling stock and the smaller 2-axle flat cars suggests the yard is used for transloading supplies. A short spur extends east to a transshipment point at . (Figure 18).

25X1D

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25X1D

FIGURE 18. THANH HOA RAIL YARD AND ASSOCIATED RAIL ACTIVITY, NORTH VIETNAM.

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- 107. Thanh Hoa 'Transloading/transshipping Area North, 19-48N 105-46E
 25X1D Facility consists of a passing track on a rail bypass around the Thanh Hoa Rail Yard. The passing track is served by a well used road. Seven POL tanks are in the area. (Figure 18).
- 108. Thanh Hoa Citadel Transloading/transshipping Area, 19-48N 105-46E **25X1D** Facility consists of an approximately 1,800-ft-long passing track with an adjacent and parallel road; a small rail-bypass track apparently used as a holding track; and a serviceable turning wye. Heavy vehicle tracks are noted throughout the area. (Figure 18).

25X1D

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