REF ID: A4148924 AG Ca

4131-526 M.I.8. WAR DEPARTMENT
OFFICE OF THE CHIEF OF STAFF
WASHINGTON.

April , 1919.

MEMORANDUM FOR THE CHIEF OF STAFF.

Subject: The T. and T. Cipher System.

- 1. Attached is a letter to the Secretary of War from Mr. George Fabyan, of Geneva, Illinois, in which Mr. Fabyan transmits a decipherment of a cipher message which he asserts was submitted to him by the American Telephone and Telegraph Company as a test message "for the purpose of ascertaining the possibility of its decipherment by the enemy" and on the basis of this decipherment asserts that "the enemy can decipher messages sent by this system."
- 2. Inasmuch as the A. T. and T. system has been and is used for Army messages of the highest importance and is regarded by Army experts as absolutely indecipherable, a careful investigation of Mr. Fabyan's claims has been made.

## 3. It appears:

- a) That the message deciphered was not submitted as a test message but as one of two concerning which it was expressly stated that they undoubtedly could be deciphered and that they did not represent the system in use.
- b) That of the four messages submitted to Mr. Fabyan on June 11, 1918, as test messages, not one has been solved.
- 4. It is recommended that the attached letter, signed by the Acting Secretary of War, be sent to Mr. Fabyan.

M. Churchill, Brigadier General, General Staff, Director of Military Intelligence.

2 enc. bbm

Approved for Release by NSA on 11-19-2014 pursuant to E.O. 13526

REF, ID: A4148924

## Riverbank Laboratories

Geneva, Ill.

Department of Ciphers

Proms

George Fabyen, Riverbank, Geneva, Illinois.

Tot

1

2

. 3

The Secretary of War. Washington, D. C.

Subject:

The dangers of the so-called indecipherable Machine Ciphers.

We are informed that a great many ciphers were submitted to the Department for its use and, undoubtedly, the best one was THE AMERICAN TELEPHONE AND TELEPHONE COMPANY'S CIPHER PRINTING TELEGRAPH MACHINE, which, we understand, was adopted by the Department after the Department had been assured by its experts that this cipher was indecipherable.

The American Telephone and Telegraph Company submitted the following test message to Riverbank for the purpose of ascertaining the possibility of its decipherment by the enemy:

RT310 anjer 750mi SAFMI SPSVT TUJ54 LGZXN HLSSK H76TO WY922 DAPPP **UHOJS 2627**J **JJ86Q** -OPG56 PER 2E THPRS LERYK **4QUUB** 43IPA UTT6B SOR7D **ZPRAC** DJGAJ **BGGHO** ybilf GP7GR SYABQ ZUD4Q HJTEP OYOJP YBARU Algds TRYSH. 56UOP XQ47E SROSP MINZ APYAN KOXTH ULABI Z2N76 HAZWZ GJIKI MDJ24 SZLŠT **6TORY** HOTH2 HZSYN G7QEX LEGPZ YVARM GJLRS YCHAP VakD7 RYCJ5 INHM2 **QOFBP** DCB02 MAYOK 6VJDP EGIVE BOFBS **AEQUR** BASPL REGVX **CUAQ6** VZLVA VP47H 6DJQI R700M OMEZA YACAK JEL70 ADDAZ 6JXX5 PIMBI KYQ53 RIEFT PBIQB CUREN WDPTX LEYSY PWOY4 KEENK LEGER GRYS2 HANOY QPL5H 263VR PKWIW **EXECTS** DESGW 6BJK7 MBAVO BOJSP R2Y18 JPSCH BSHB5 SLFKQ MODKZ **ARYPL** 62IDF HVODQ FH65E **GONSB** upipi SPASJ MYOFP XMMYY GROBE KO437 OHPYO **GZHZH** 6GZ5D BGOIB 73L37 2YSEQ NACGP **2740**6 RLR

The above message translates:

BRIGADIER GENERAL BEOWN 50 TRANSPORT LEVIATHAN IS EXPECTED TO ARRIVE AT CALAIS
SATURDAY APRIL 2 WITH DIVISIONS 305, 249 AND 467 ARRIAL SQUADRONS 11 12 AND 13
ZIGNAL BATTALIONS 25 26 AND 27 ARTILLERY SECTIONS 40 41 AND 42 HOSPITAL SECTIONS



49 TO 91 INCLUSIVE ALL OF THE ABOVE UNITS ARE TO ENTRAIN AT ONCE AND PROCEED TO ANIENS UNDER YOUR CHARGE AT AMIENS DETRAIN AT DEPOT NO THO AND MARCH TO WAR. DEPARTMENT CAMP NO SIX TEN MILES HAST OF THE CITY PROPER THERE ENGAGE AND REPORT YOUR ARRIVAL AT ONCE TO HEADQUARTERS

- We have other test messages which have also been decifihered in spite of being complicated by the use of numerals instead of spelling them out.
- In analyzing the work of this machine and in ferrating out its weaknesses, we venture the opinion that the enemy can decipher messages sent by this system.

Respectfully submitted for your information.

(Signed) Febyen

4131-526 M.I.8. REF ID: A4148924

WAR DEPARTMENT OFFICE OF THE CHIEF OF STAFF WASHINGTON. JMM M.I.D.-8

April . 1919.

Mr. George Pabyan. Riverbank Laboratories, Geneva: Illinois.

Dear Siri

Your letter of March 23 expressing the opinion that the enemy can decipher messages sent by the system devised by the American Telephone and Telegraph Company in conjunction with experts of the war Department has received careful consideration.

Are you not laboring under some misapprehension? The message you have solved was submitted to you. I am informed, not us a test message but as one of two in regard to which you were expressly told that they could undoubtedly be solved and that they did not represent the system in use.

Four messages representing the system in use were, I understand, submitted to you so test messages. If you succeed in deciphering ony one of those, you will demonstrate the inscourity of the system. I should be interested to know whether you have done this.

Yours very truly.

Benedict Growell, Acting Secretary of War.

no eng.

b bm