Declassified and approved for release by NSA on 04-25-2014, pursuant to E.O. 13526 REF ID: A65418

1. NAME:

CSP 3300 - Teletypewriter Cryptographic Attachment Mark II.

2. STATUS: In use.

3. FUNCTION: Encipherment of Baudot text

4. SECURITY: Category A.

5. CRYPTOGRAPHIC PRINCIPLES:

CSP 3300 is a cipher machine to be used off-line and semi-on-line for the encipherment of Baudot text

The plain text of Baudot characters is stored in 5 relays - 1 for each level of the tape. At the same time, a fixed 12 that the right end plate of a 5 rotor maze are energized. The current passes through the maze and is reflected back to the right end plate. The energizing of a combination of 3 contacts on the left end plate and 7 contacts on the right end plate and 7 contacts on the right end plate are discounted. plate and 7 contacts on the right end plate produces a transposition key which permutes the output of the 5 should relays according to the elements of the symetric group of degree 5. The energizing of a combination of 5 contacts on the right end plate produces an additive key, which is combined modulo 2 with the ouput of the transposition step, thus producing cipher text,

The stepping of the rotors of the maze is except that the center (# 3) rotor steps each time. (Rotors # 2 and # 4 step in reverse).

When contacts 7 and 25 on the right end plate are energized, the # 1 rotor steps. If the part contact on the # 4 rotor is closed at the same time the # 1 rotor steps, the # 4 rotor also steps. If the part contact on the # 1 rotor is closed at the same time the # 1 rotor is closed at the part to the part to the # 2 rotor also steps. If the part to the # 2 rotor is closed at the same time the # 1 rotor is closed at the same time the # 1 rotor is closed at the same time the # 2 rotor also steps. is also closed at the same time, the # 2 rotor steps. And if the break contact on the # 2 rotor is closed at the same time, then time # 5 rotor also steps. Normally, the contacts en rete # 1 and # 2 are closed unless hit by soluge the contact on poter # 4 is open unless hit by a lug, but when the lug on

noter # 1 actuates the back contact of that roter then roters #1 and # both step.

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6. INDICATOR SYSTEM:

Plain language transmission of rotor arguments

7. COMPROMISE:

Transmission of 2 or more messages with the same indicator. A short crib is necessary in one of the two message. The result is that both messages can be read but it depends entirely on the ability to extend the crib.

8. ASSOCIATED DOCUMENTS:

None available.



REF ID:A65418

6. KEY LIST AND INDICATOR SYSTEM:

indicators.

indicator

Plain language transmission of message

The rotors are set by hand to the message

Creptographic attachment 1 Name 3. Frenchen: - Incipherment of Baudot Test 4. Security: - Calegory A. Scriptsgotphic Principles: to he used off line dud semi- on-line for the encipherment y Bandot text. in token from a morage take and a stored in a infect relaye , for tack levels of the tops, at the order tome, 12 handed injust contacts on the night end plate of a sider man are energined. The current passed thought to the night end plate I the energy to be combination of 3 contacts on the light end plate I the energy of the combination of 3 contacts on the different plate and I sentent the butput of the elements of the products are adulting to the products of the products are adulting to the products of the products are adulting to the products of the transposition step thus products of the transposition at the break up in 5 the circuits of the transposition and to a disturbility put the proper heapened and to a disturbility put the proper heapened and to a disturbility put the proper stepper and the proper allows. putd the peopler begind on the line in sequential side, and also adds the selection side and stop signal. All relays are actuated and stop signal. Aluming the stop signal. Thus there is no chause for signal. Thus there is no chause for putting "signs" are momentary breaks my the line which would inductive full-backs which would reveal the clear text signal. To decessions a reverse piped. In deciphency a receive process is followed, The cylier that and stored from the surprise their surprise and stored and substitution processes are received and mestitution processes are received in memory relians, from whence it for in memory relians, from whence it for

Which is locked REF ID: A65418 The curento that there relays and to a distributor which julo and is a distributor which puto the people regal on the Pline in segmential order, and afor edds only receiving the delication floothed during the start rights the store right. Thus there is no chance for justing rights or chance for the putting rights or chance for the finduction full touch which romed in hi cate me clear text or pal to lead the delication of which would would be clear text or pal to lead the property reverse process he softward— the egillen text a Baylot Characters the egillen text a benefit of the processes of the reverse of the reduction of the reverse of the reduction of the reverse of the reduction of the processes of the processes of the processes of the processes of the reverse of the reduction of the processes of Sepping Creptle gradely the #3 rates (center) is a constantly stepping rotes - Rators # 18 tenes by 2 tenes of the (on the avery) but # 4 hops to the respective of the steppens of the part of the pa for every revolution of \$1, Lie # 4 is denien in 18

4 2 4 #5 steps appropriately every 3 5 letters? on the awage but \$ 5 deges believed the aster for every revolution of #2. The average and leveth is 42 × 26 = 609,300 min

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