

~~TOP SECRET~~

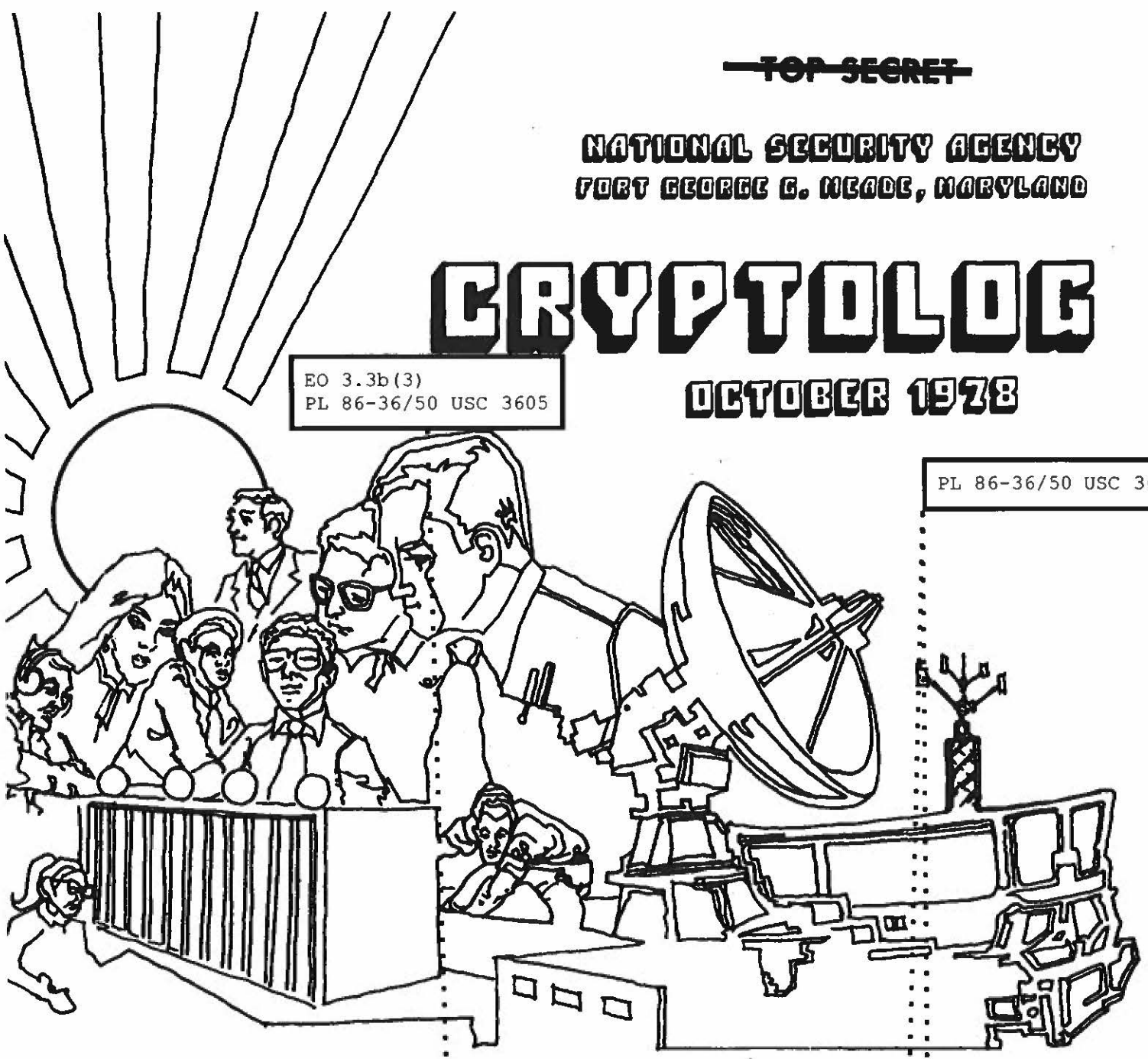
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# CRYPTOLOG

OCTOBER 1978

EO 3.3b(3)  
PL 86-36/50 USC 3605

PL 86-36/50 USC 3605



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THIS DOCUMENT CONTAINS CODEWORD MATERIAL

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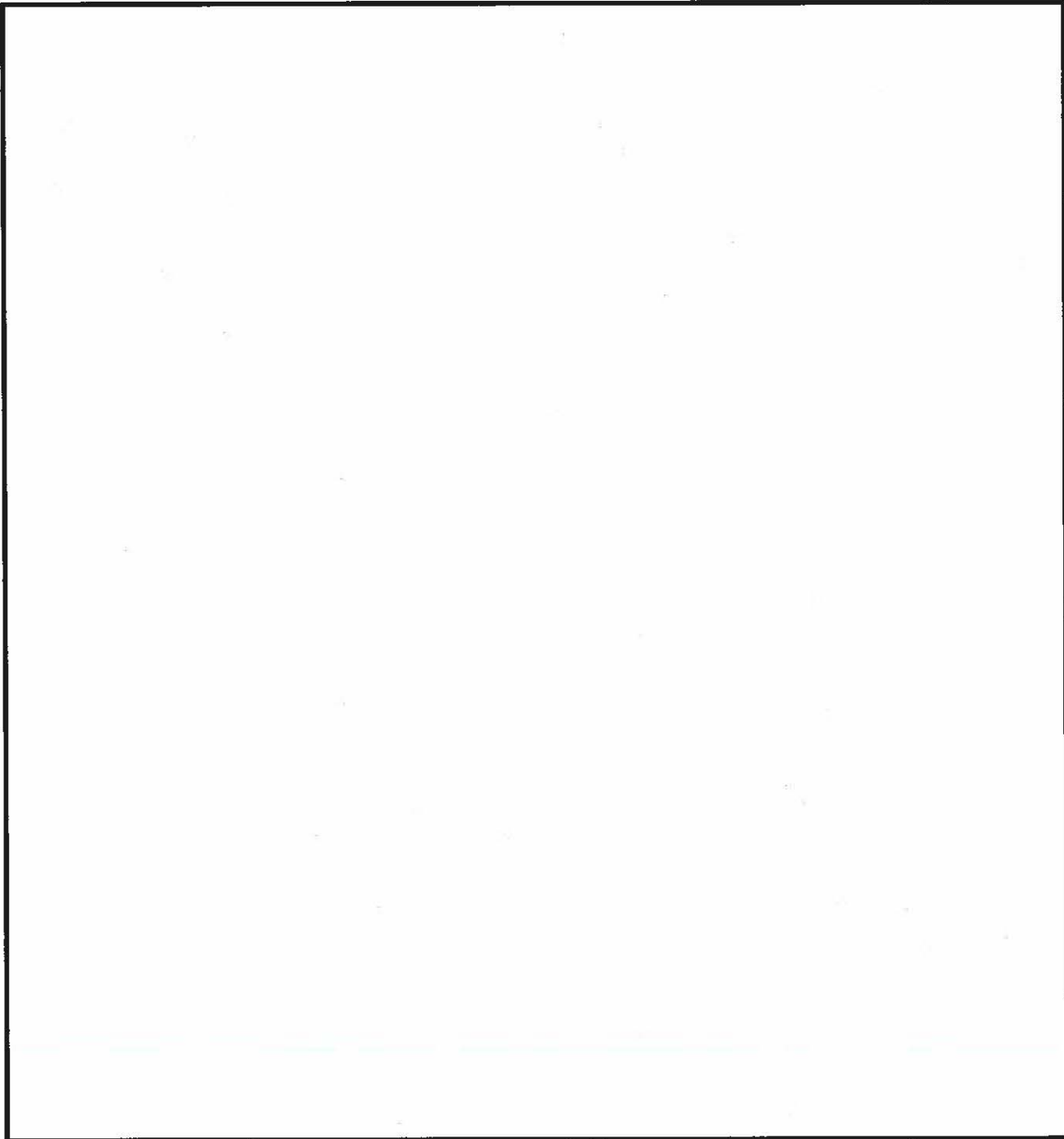
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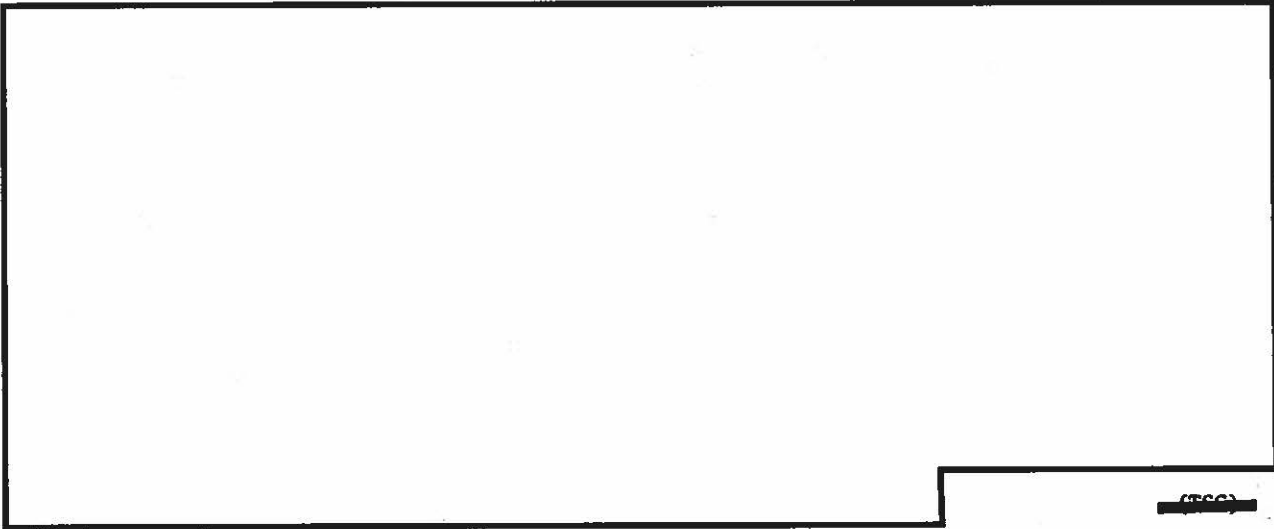
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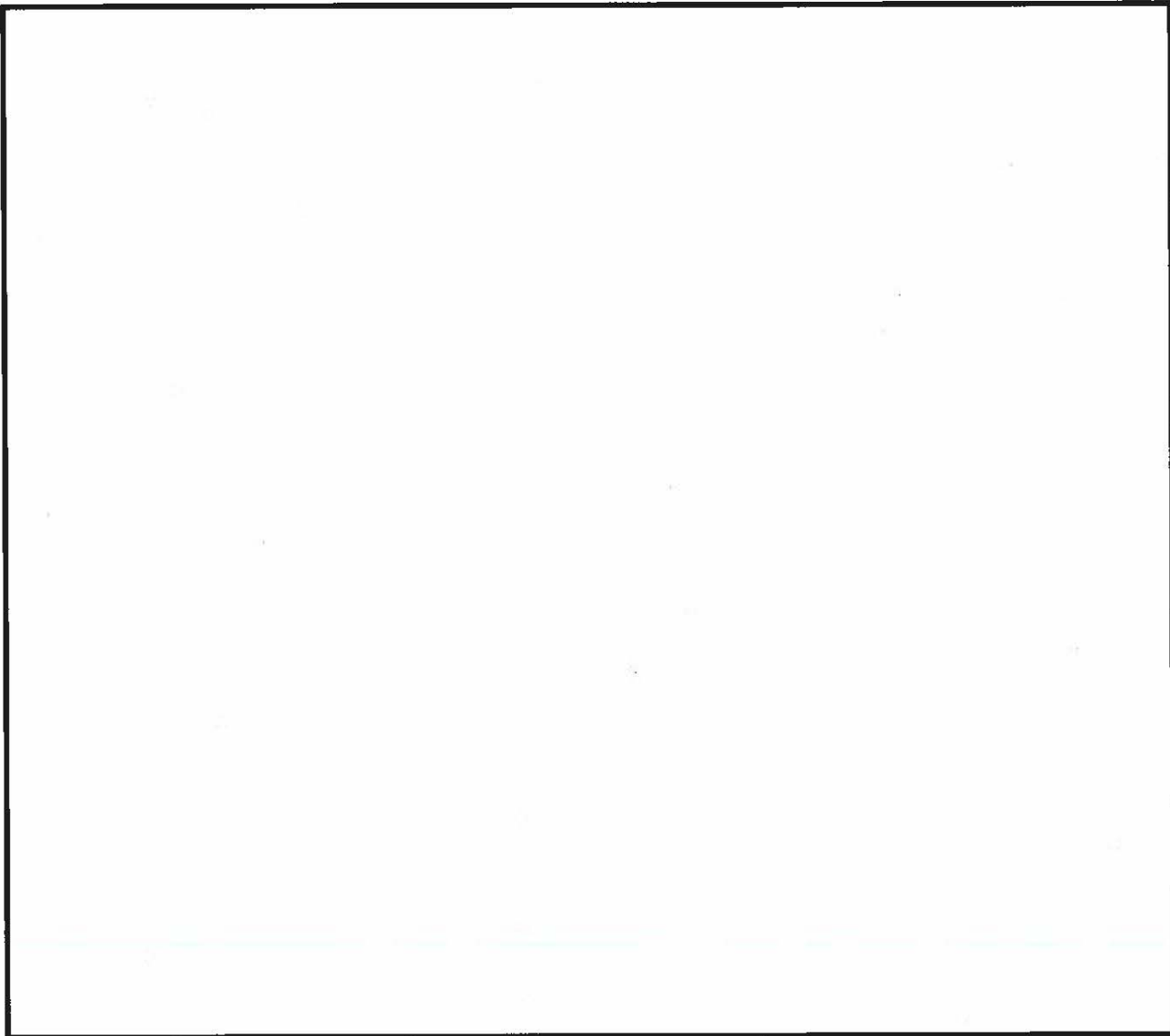
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# A METHOD OF MEASURING INTELLIGENCE

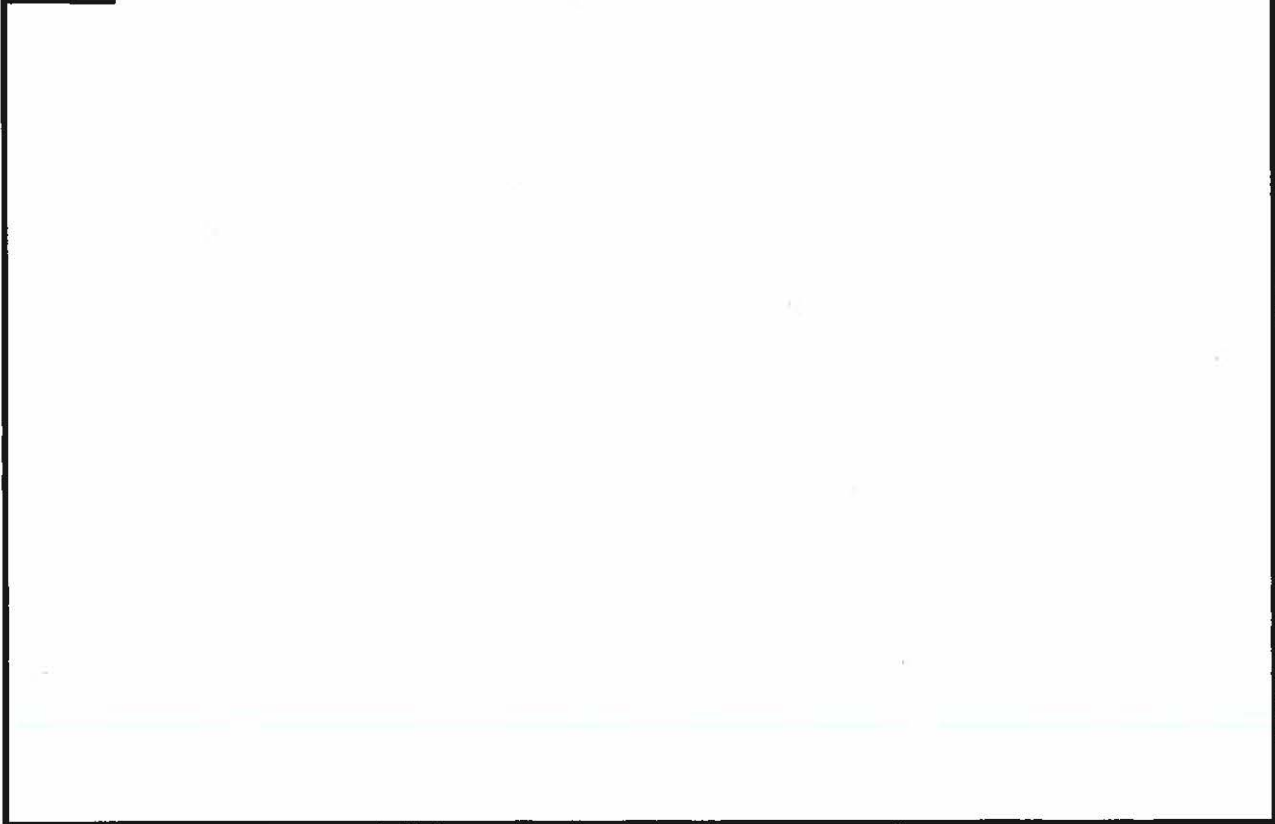


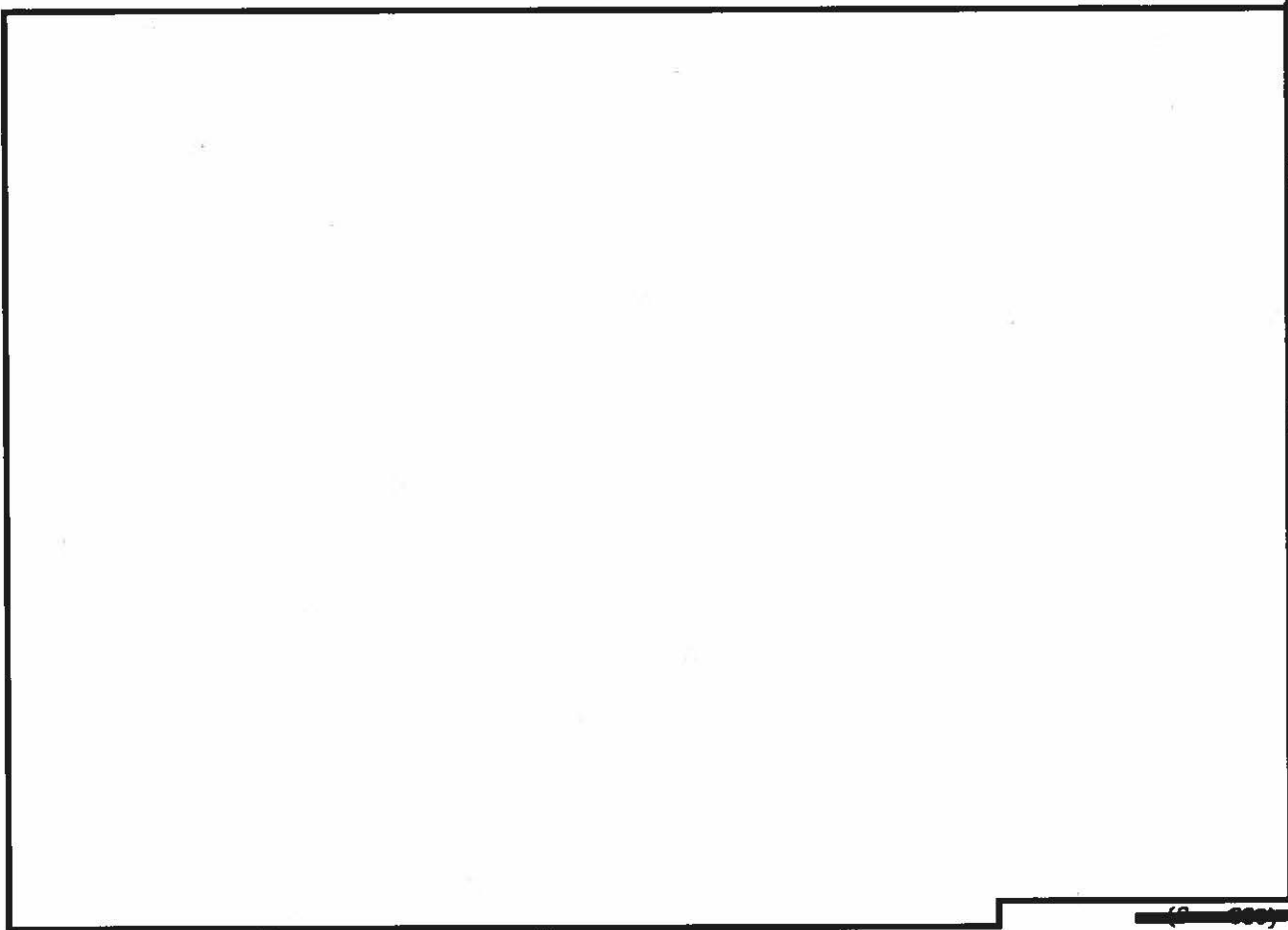
EX-W322

*When the author of this article submitted it to CRYPTOLOG in April, he stated that he had deliberately omitted much of the more technical detail, such as how the probability figures are derived, but offered to answer any questions that the published article might engender. Unfortunately, that offer no longer applies, since the author resigned in late June 1978. Questions may, however, be directed to his former associates in W322, -on 37648.*

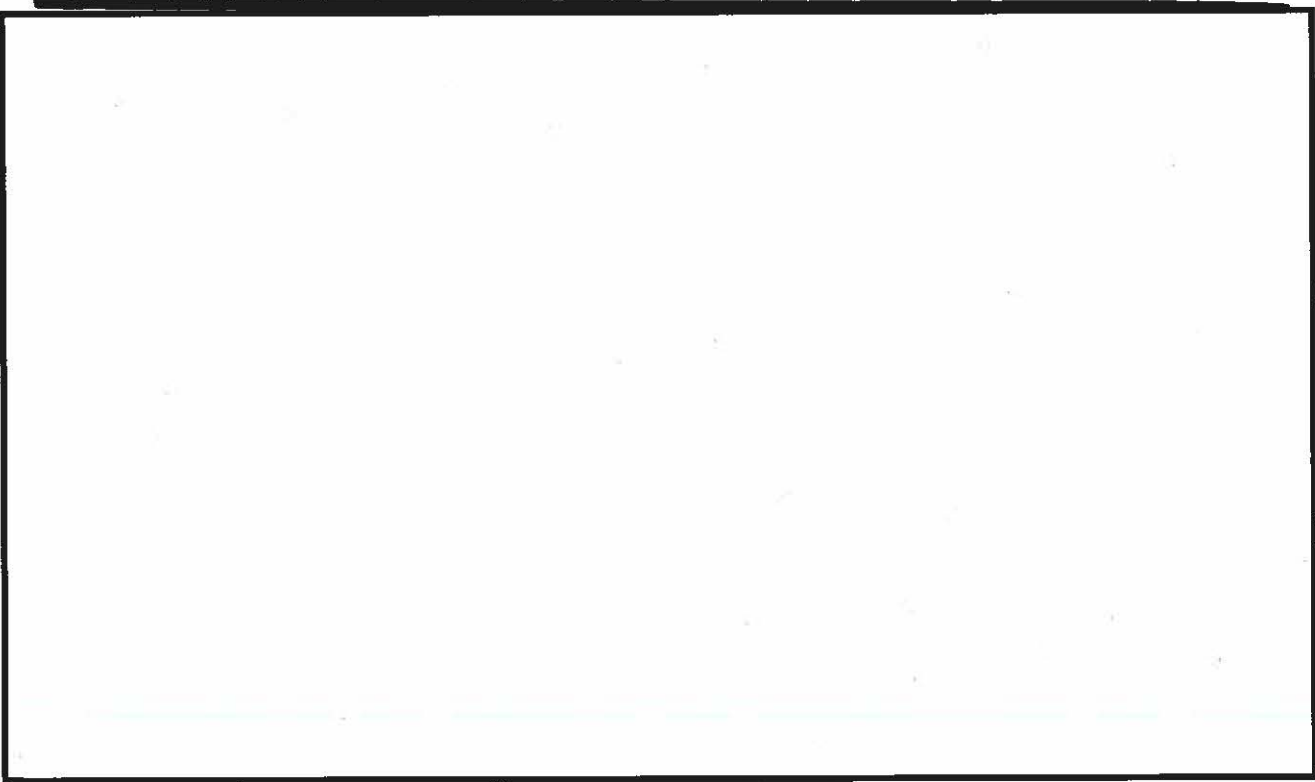
*R. D. Bulla,  
Collection Editor*

**G** [redacted] article in the April 1978 CRYPTOLOG ("We Gotta Accentuate the Negative") pointed out the problems that exist with intelligence efforts that yield negative results. The challenge is to make the most of such results and produce negative, but useful, intelligence. This article will attempt to describe a method developed by [redacted]





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Non - Responsive



# YOU CAN'T TELL THE WHEAT FROM THE CHAFF WITHOUT A PROGRAM

J. Gurin, R5



**F**or years there has been general agreement that the right way to deal with huge volumes of any kind of intercept is to exercise selection as early as possible. Ideally, the selection process should take place at the point of intercept, so as to reduce the load on communications channels and to avoid glutting the storage resources at the processing site. Whether the volume reduction takes place at the very first stage of the SIGINT process or later on, it must be done, and the sooner the better.

One kind of selection, of course, is embodied in the decision whether or not to copy a particular signal. But once it is decided that the signal is worth taking, and that signal carries a lot of traffic, we face the problem of disposing of what is not useful to us.

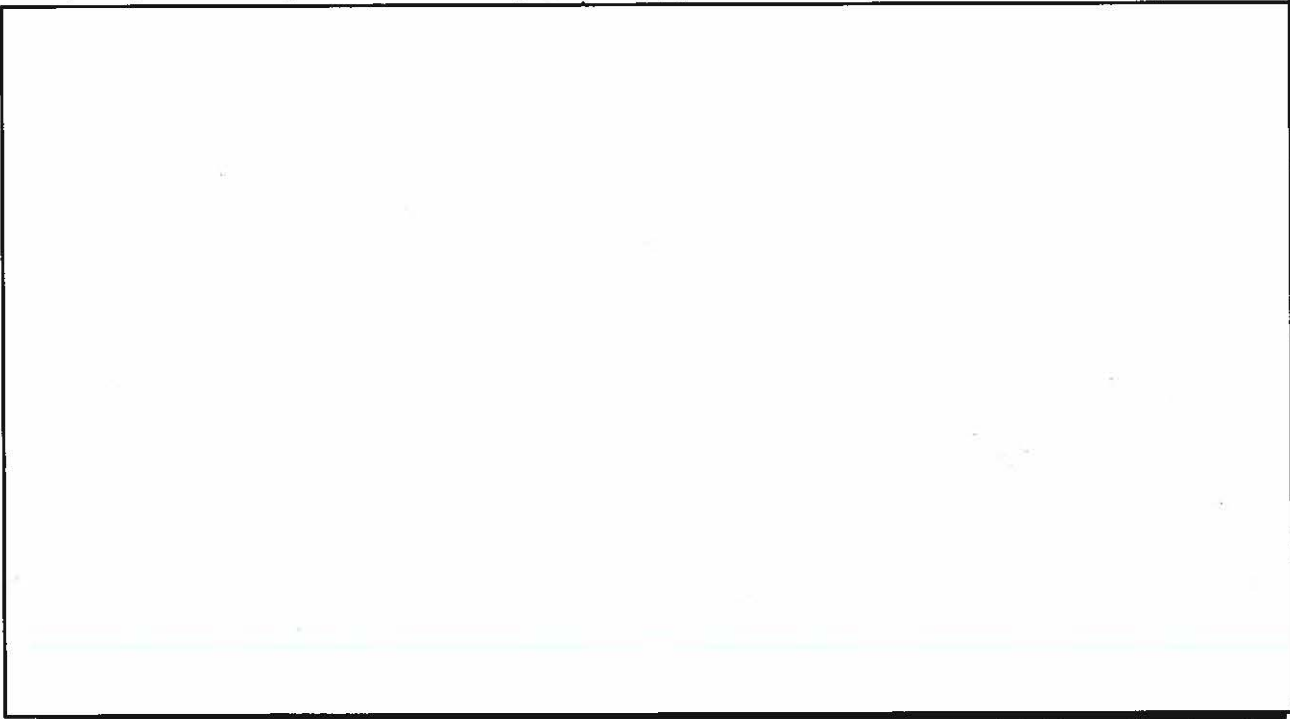
This problem of volume reduction has proven to be especially troublesome for voice intercept. Except for devices which recognize dialed telephone numbers, [redacted]

[redacted] there are no automatic selection/rejection devices currently available. The transcriber-scanner, or voice intercept evalu-

ator, or linguist/analyst, or whatever you may call the human processor who determines what should be retained and what discarded, accounts for almost all the decision-making at this stage.

What's to be done if we do not have enough voice linguists to do the selection/rejection job? Only one course of action seems to hold out any likelihood of success, and there are no money-back guarantees to that offer: get "the machine" to help. Easier said than done, for a lot of reasons. Just what is "the machine" to do?

The chart which follows attempts to show, in grossly oversimplified terms, what criteria the transcriber uses to select or reject, and what kinds of automatic devices might be devised to approximate those functions. The purpose in presenting this chart is to indicate which paths could be followed by the DDR organization in providing assistance to the selection problem, which is growing in size and importance. Although the mechanisms have been listed separately, there is no reason to assume that they would not be used together, perhaps to supplement the transcriber's efforts, if that proved to be the most reasonable thing to do.



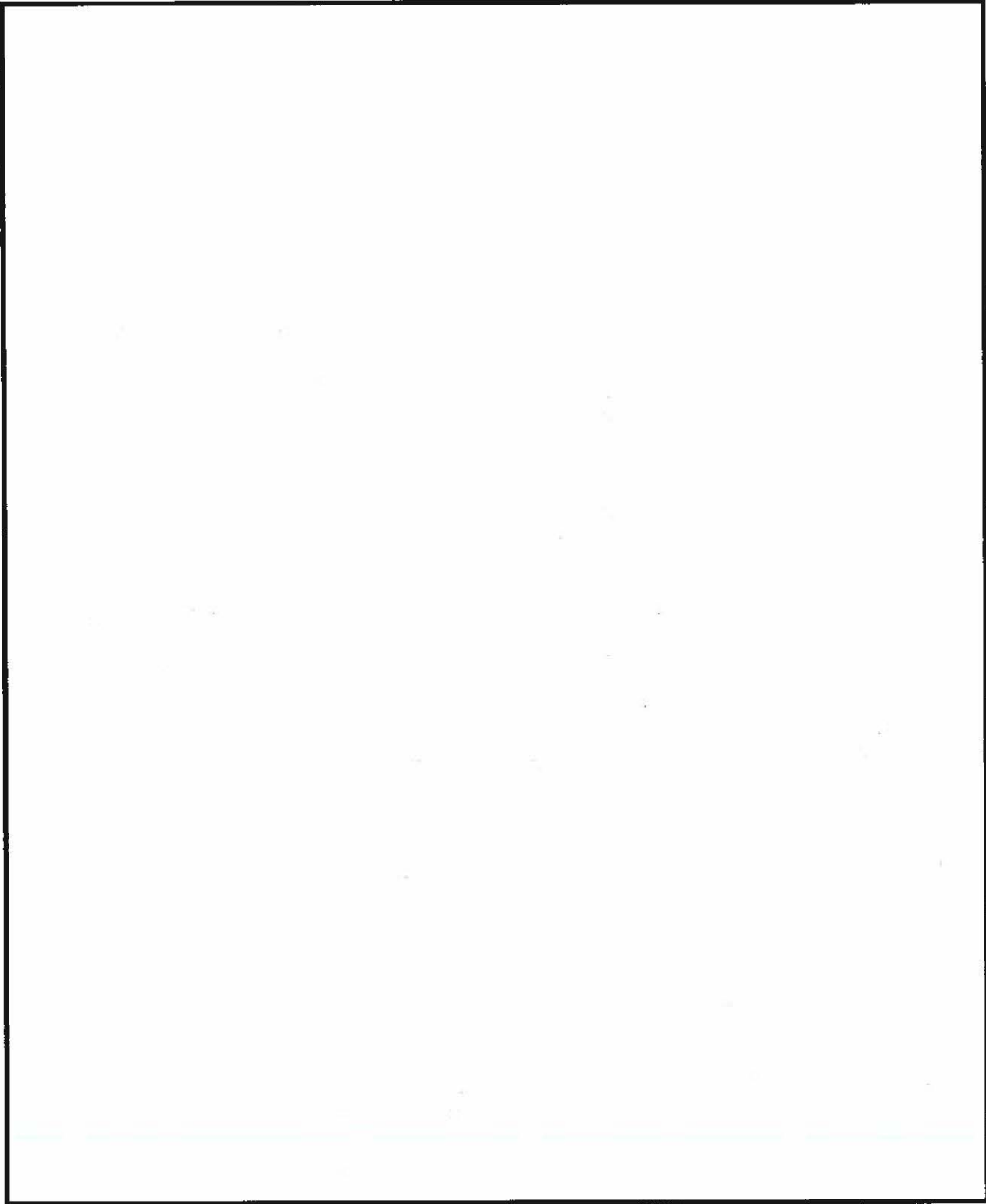
**NSA-crostic No. 18**

By guest NSA-crostician  
David H. Williams, P16

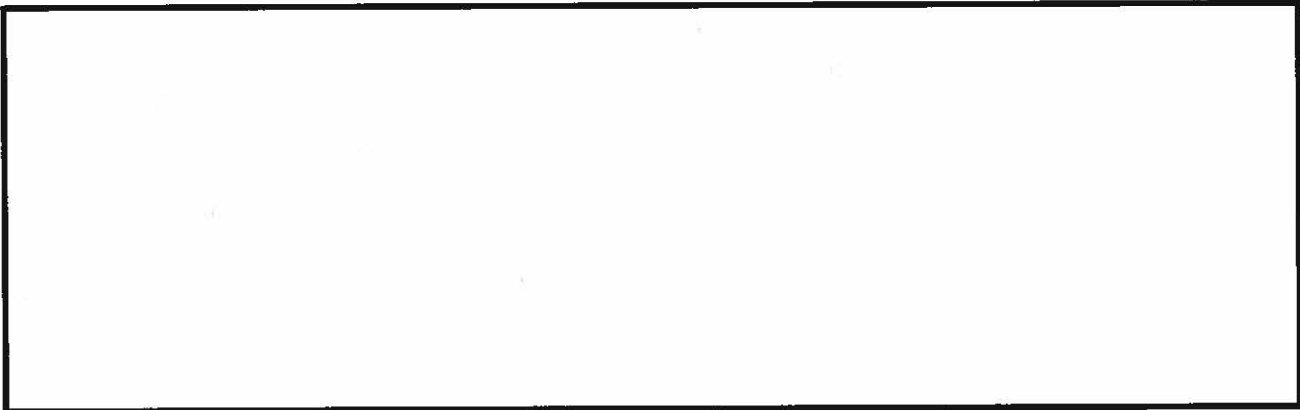
*The quotation on the next page was taken from the published work of an NSAer. The first letters of the WORDS spell out the author's name and the title of the work.*

DEFINITIONS

WORDS







1 I	2 E	3 F		4 J	5 E	6 A		7 Z	8 K	9 V	10 Y	11 E	12 H	13 C	14 R
	15 A	16 F		17 H	18 Z	19 V	20 K	21 N	22 R	23 Q		24 W	25 F		26 O
27 A		28 F	29 O	30 B		31 I	32 Q	33 Y	34 Z	35 H	36 R		37 M		38 K
39 B	40 H	41 Z	42 Q	43 E	44 I	45 Y	46 N		47 D	48 S	49 I	50 V		51 E	52 R
53 W	54 P		55 C	56 Y	57 M	58 K	59 L		60 M	61 H		62 C	63 S		64 Z
65 J	66 H	67 Y	68 W	69 I	70 K	71 X	72 N	73 C		74 N	75 E	76 V	77 C		78 R
79 N	80 Q	81 H	82 B	83 Z	84 I		85 Y		86 C	87 T		88 L	89 H	90 Z	91 E
92 W	93 Q	94 R	95 U		96 T	97 S		98 Z	99 R	100 H	101 B	102 I	103 F		104 J
105 U		106 I	107 Z	108 H	109 Q	110 Y	111 V	112 K		113 V		114 Z	115 B	116 H	117 I
118 Q	119 R	120 X		121 L	122 B	123 I	124 W	125 R	126 V	127 D	128 Z	129 P	130 K		131 D
	132 V	133 Z	134 L	135 P	136 Q	137 I		138 I	139 P	140 R	141 Z	142 X	143 K	144 Q	145 Y
146 E	147 N		148 M	149 H	150 S	151 T		152 D	153 I	154 K	155 Q	156 Z	157 K	158 H	159 X
160 P		161 Z	162 C	163 D	164 O	165 G		166 N	167 V		168 Q	169 W	170 B	171 Z	172 R
173 I	174 A	175 G	176 P		177 J	178 L		179 J	180 K	181 A		182 Y	183 U	184 T	
185 U	186 R		187 W	188 H	189 K		190 C	191 P	192 I	193 V	194 W	195 R	196 X	197 Q	
198 X	199 I	200 K	201 J	202 B		203 H	204 T	205 P	206 Q	207 S		208 N	209 E	210 K	211 U
	212 O	213 G	214 L	215 W		216 X	217 W	218 V		219 B	220 C	221 P	222 V		223 H
224 I	225 N	226 Q	227 P	228 R	229 V	230 E		231 Q	232 I	233 R	234 V	235 W	236 Z	237 Y	238 T

(Solution next month) D.H.W.