Space Continuem altering enrollment target loader policy included !

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SEC TARGET

.cert tristins._<(below.)>
Enterprise enrolment safe admin credentials Tristin.,%STAT=(OE_ADMIN_CREDENTIALS_SECURE_cunauhysif)

Eavesdropping static enrolment element Tristin.,%STAT=(I_NETWORK_EAVESDROP.root=Astrid_Liche_atpl8c)

Enterprise satellite controller all demand Tristin.,%STAT=(OE_COMPONENTS_RUNNING.PlísstîcGaSs=Bahnhof_--[(888.999.555.444.999.)])

Enterprise session controller Tristin.,%STAT=(O_SYSTEM_MONITORING)

Resource Governor Enterprise management Tristin.,%STAT=(O_MANAGEMENT)

KVM-switch + entire Security Target trusted admin Tristin.,%STAT=(OE_TRUSTED_ADMIN)

Enterprise test-probing Tristin.,%STAT=(FPT_TST_EXT.1)

Cryptographic enterprise message authentication Tristin.,%STAT=(FCS_COP.1(4))

Enterprise server crypto graphic operations Tristin.,%STAT=(FCS_COP.1_O360aga.nz)

TLS trusted group resource management client support Tristin.,%=STAT=(FCS_TLSC_EXT.5.1)

Enterprise dimension portal LINK-Key Tristin.,%STAT=(FCS_CKM.2)

Entire Enterprise SEC TARGET trusted channel probe Tristin.,%STAT=(FTP_ITC.1)

Total enterprise all round agent Tristin.,%STAT=(FPT_TST_EXT.1)

Dimension portal mutual diplomatic intellect recource tab Tristin.,%STAT=(ATE_IND.1.1e)

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INSTALLING SCRIPTS

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lsma.de.torgenera.tingrand.aniodica.toranotum.ercontl'Ol.otoporato.rtheand'.autanaticalll'thegen
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his Though service normally is intermittent, an expert may have con~inuing operational
respons!bilL ties during each period of actual duty since his primary function is to out specialized
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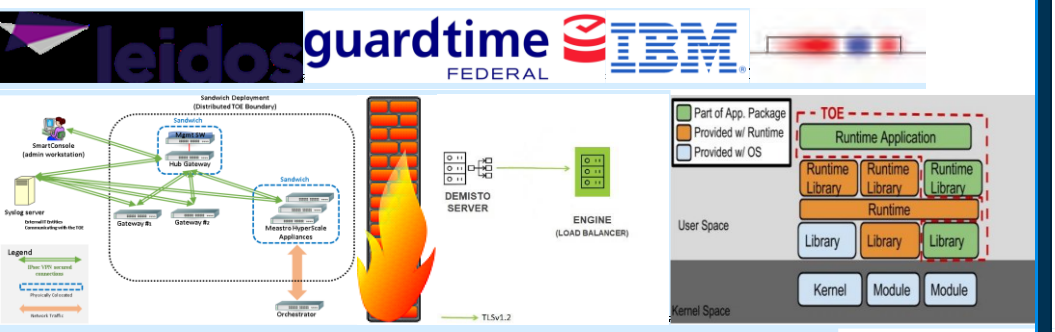
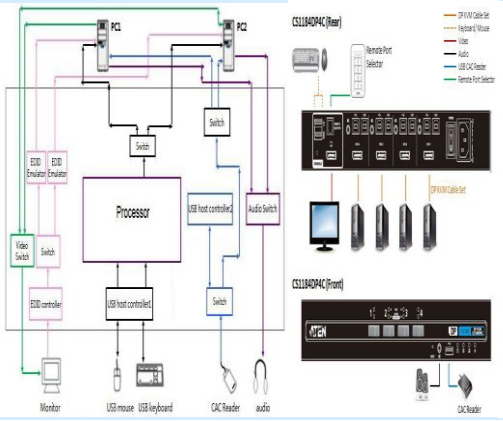
TECHNOGRAPHIC ELEMENTS





a. Recommendations:

(1) That the following conclusions of the working group be adopted:

(a) If the Services were required to adopt a joint uniform job code and the formation of such a code could be completely coordinated with the security agencies and NSA, it is likely that some of the problems would vanish.

(b) The required adoption of an Ajax Job Code as a unique job code not related to the existing system does not appear to have great utility now particularly from the point of view of the individual services.

(c) Since NSA desires to establish a job code for NSA billets, one of the existing job codes should be used as a basic system in order to avoid the cost and confusion of establishing a fourth job code, with cross-referencing to the codes of the other services.

(d) The survey of military billets in NSA now in progress should provide valuable data regarding the job code required there.

(2) That the NSA Personnel Division establish in conjunction with the Services' cryptologic agencies, a program to develop job descriptions applicable to the members of the cryptologic agencies.

b. Final Action: Chief, NSA Personnel Division assigned action, as recommended.

(7) The Services, supported as required by NSA, sh… insure that appropriate clearances are obtained for t… design engineers so that they can be given a c… knowledge of the problem. Coordination should … when a new station is first anticipated by NSA and … throughout the planning, design, and construct… the station.

The majority of the Board concurred. NSA conc… provided the following sentence is added: "Closer coor… should be insured by a scheduled reporting pro… between NSA and the services concerned." (ASA, … non-concurred with this sentence.)

(8) NSA prepare a periodic review of estimates of … mission assignments for each station and provi… information to the services for guidance in th… planning.

(9) The cryptologic agencies should come to NSA fo… in their efforts to obtain real estate for ere… additional antennas.

The majority of the Board concur. NSG did not … since the recommendation is considered to invo… outside the purview of the TWG.

(10) NSA coordinate the VHF/UHF/SHF antenna requir… three Services and forward the information to … where joint military characteristics can be pr… (for COMINT only)

(11) NSA undertake a study of existing antennas to … their adequacy for COMINT in terms of optimum … vidness sine, etc.

b. Final Action:

(1) DD/P&OD assigned action to accomplish recomm… Nos. 1, 3, 4, 5, 8, 9, and 10.

(2) A/D assigned action to accomplish recommendati… 11.

(3) Recommendations Nos. 2, 6, and 7 are still be… sidered.

SECRET

A

DURANK

ON-LINE TELEPRINTER CIPHER DEVICE

Size: One 4'6" telegraph rack on castors

Weight: 100 lbs approximately

Outline Description - An electronically operated half-duplex on-line teleprinter subtractor encipherment device.

Technical Description

Cryptographic Features: See notes on Cocks-Robin. (Item ee). The cipher key is generated by cold cathode gas tubes. Provision is made for generating random indicators not under control of the operator and for automatically positioning the key generator to these indicators.

Mechanical Features: The whole equipment is electronic. Most circuits use cold cathode gas tubes.

General - The device is intended initially for use on CCHQ land line circuits. A basic concept has been the use of electronic techniques so as to permit ready mass production.

State of Progress - Two models now being built for user trials.

SECRET

A

PENDRAGON

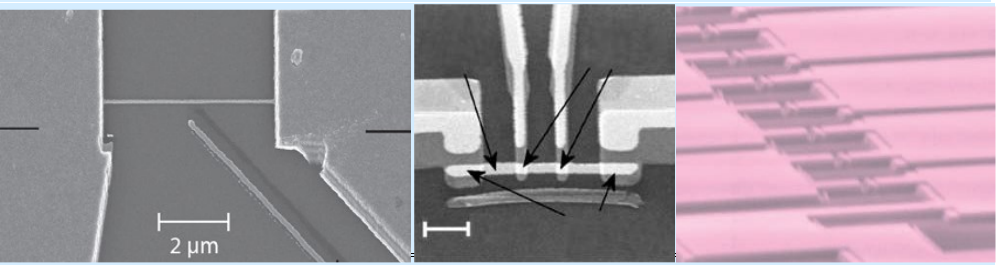
General - Pendragon is an off-line cipher machine using a perforated tape input and producing a page-printed copy on a teleprinter and also, if required, a perforated tape on a printing reperforator.

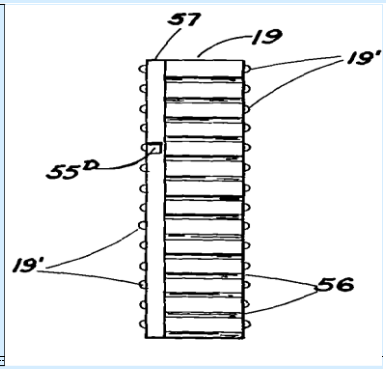
The input tape can be prepared on a standard teleprinter perforator using the full range of teleprinter signals. Digram signals are automatically inserted by the equipment which has a 26-way permuting mase exactly the same as that used in Singlet.

Pendragon will interwork with Singlet and can also be used for CCM or HCM working.

Details - The main unit will be identical with Singlet, except that the keyboard and printers will be replaced by a control unit for inserting carriage return and line-feed, etc.

State of Progress - Development is proceeding in parallel with the work on Singlet and it is expected that both Singlet and Pendragon will become available about the same time.

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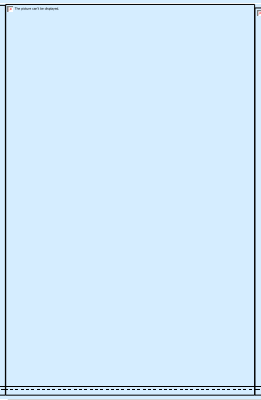

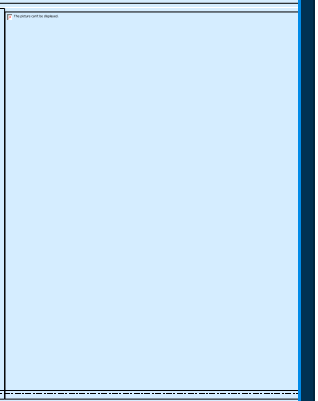

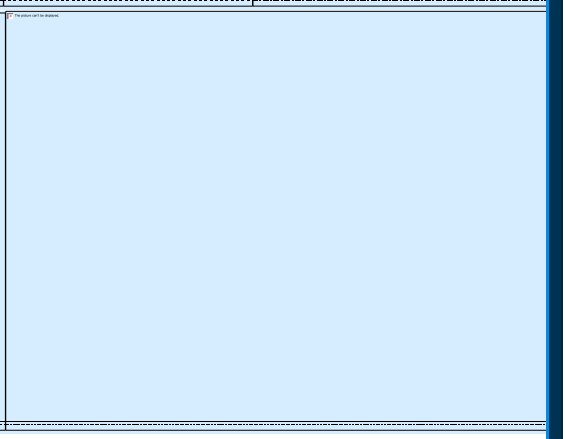

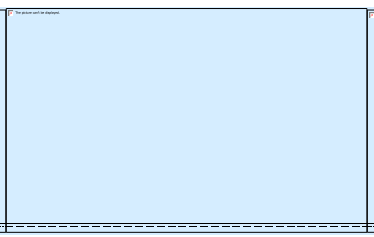

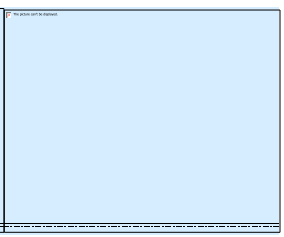

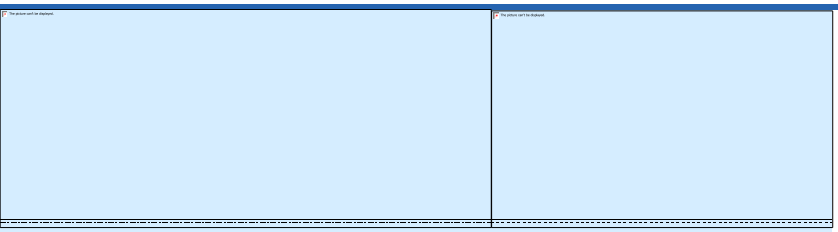

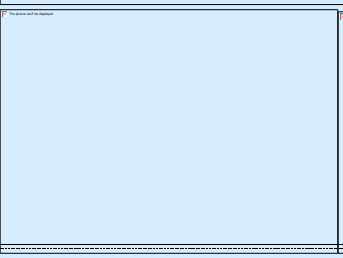

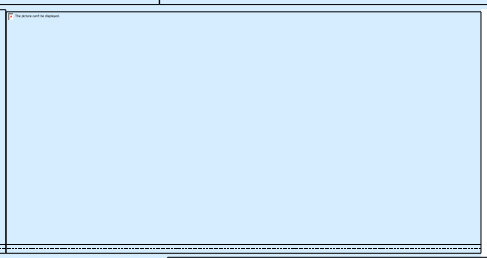

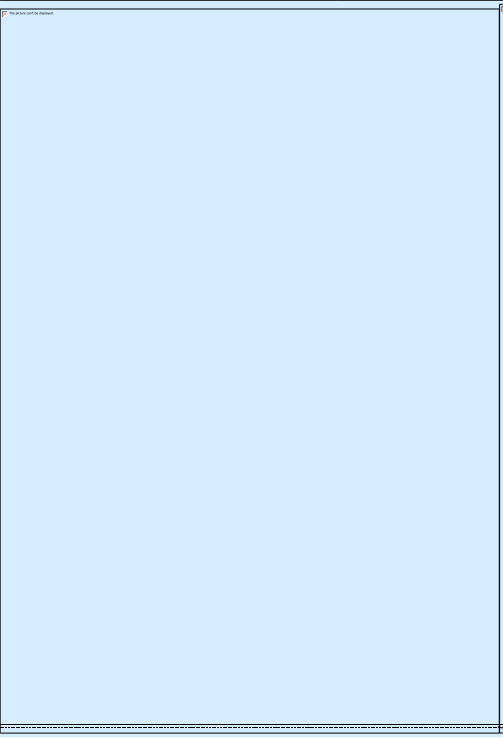

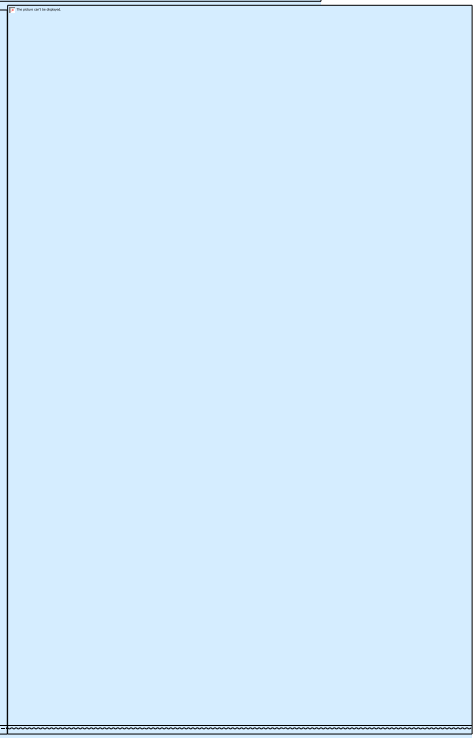

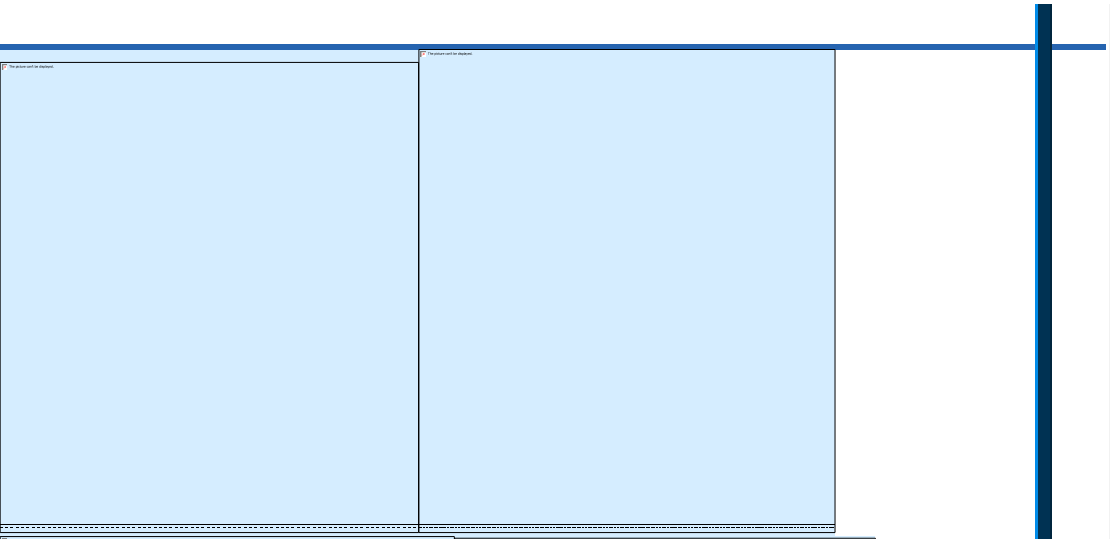

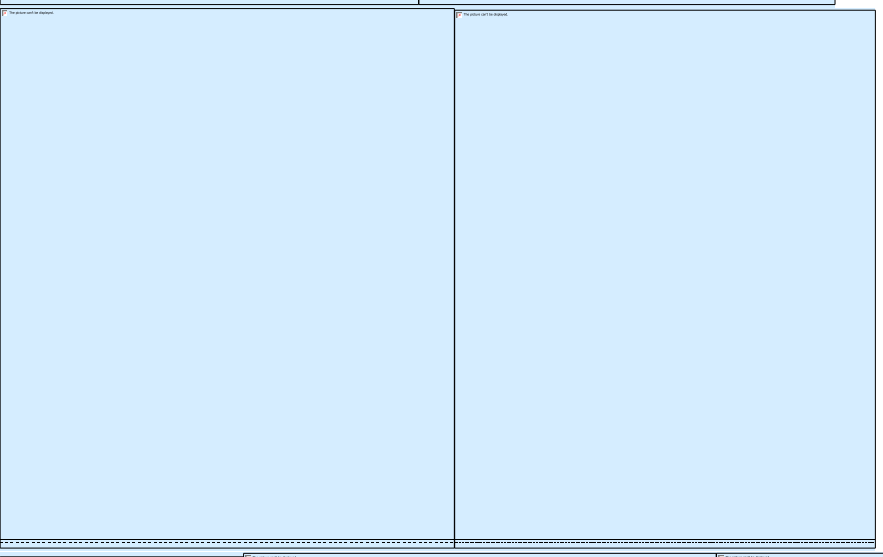

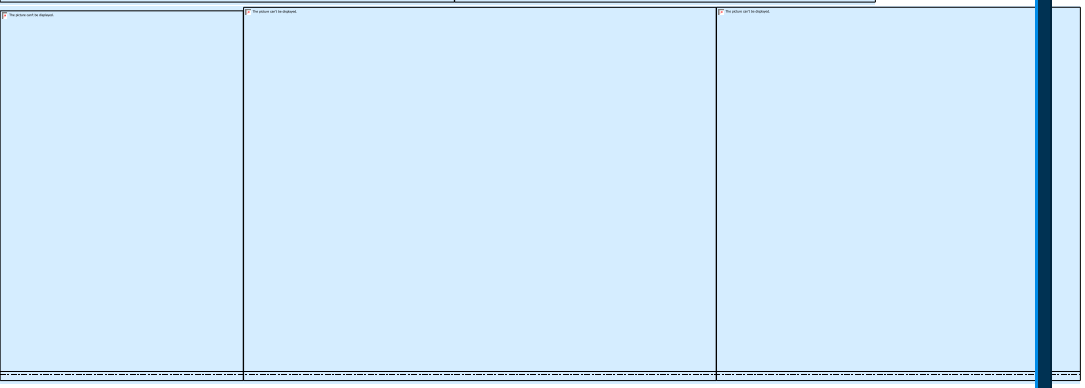

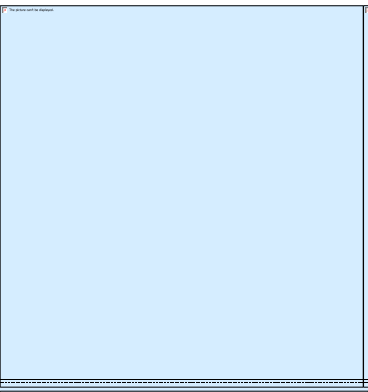
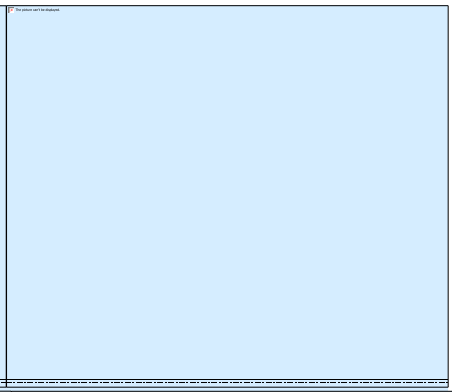
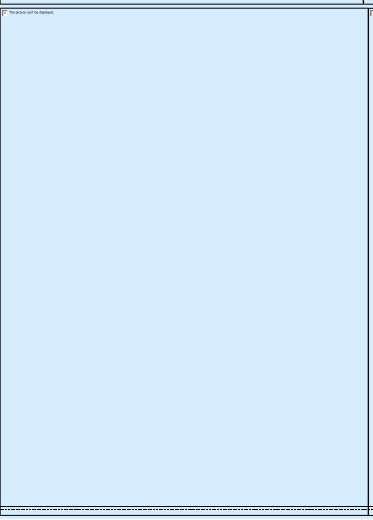

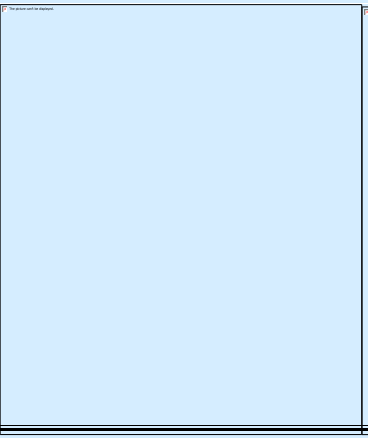
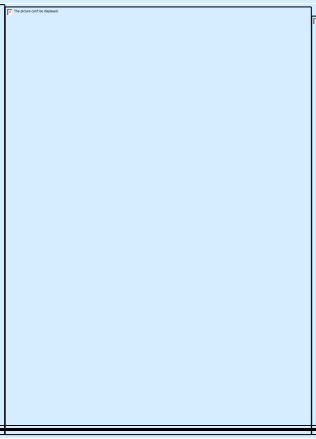
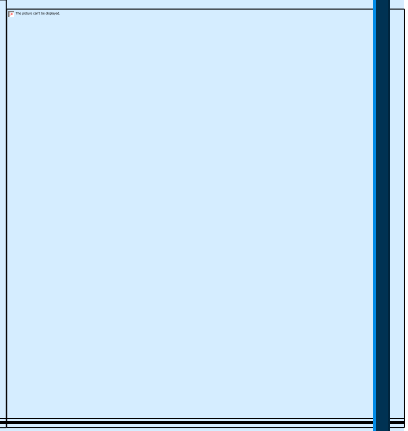

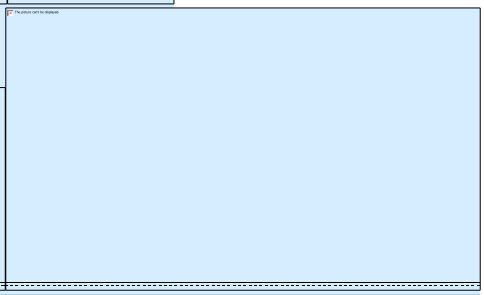

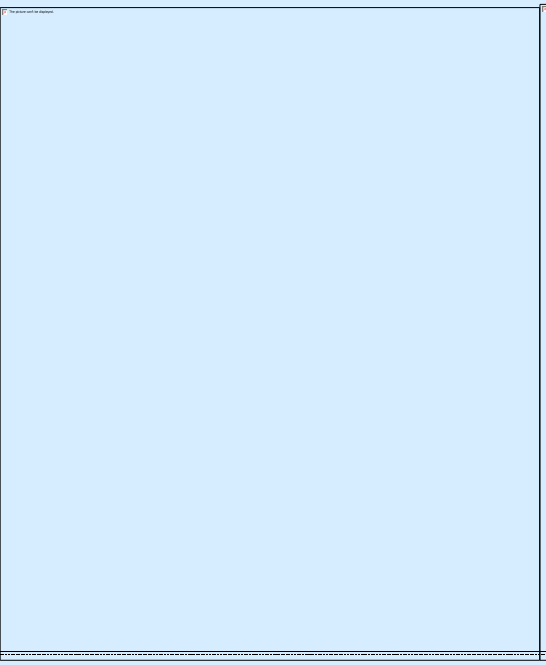

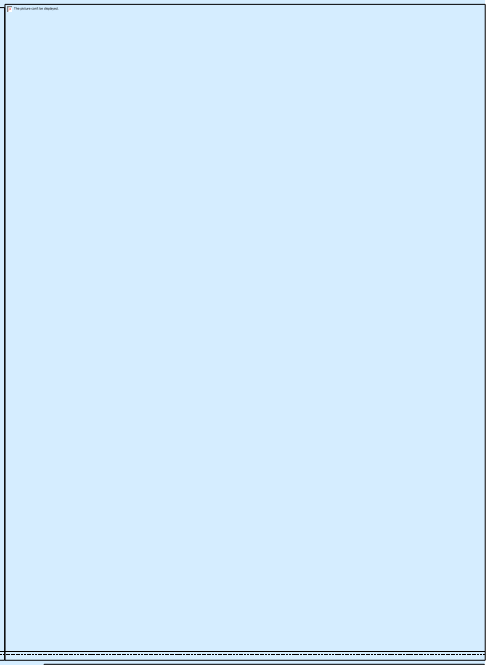

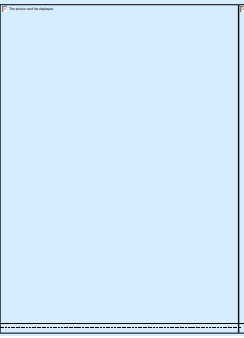

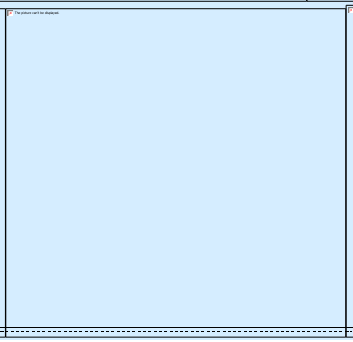

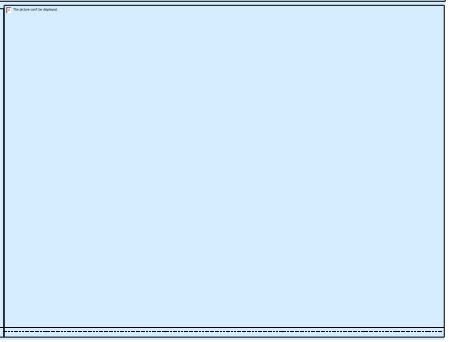

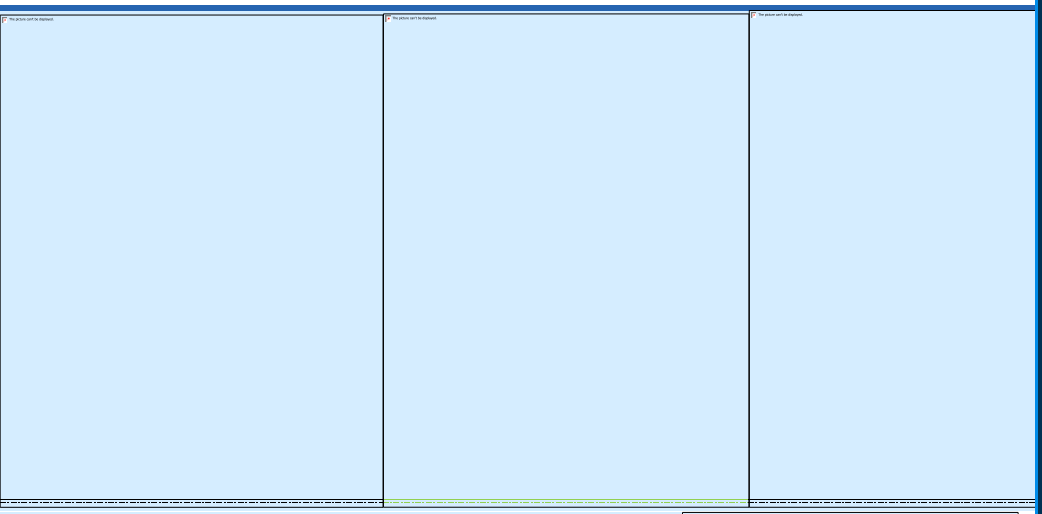
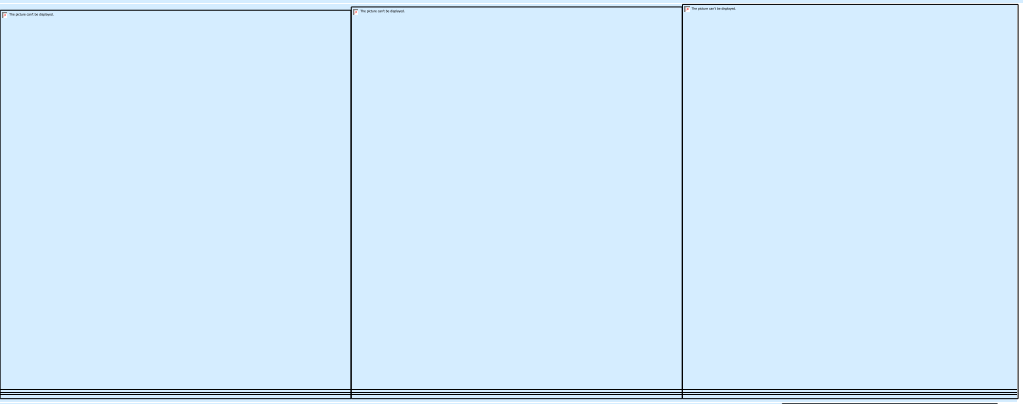
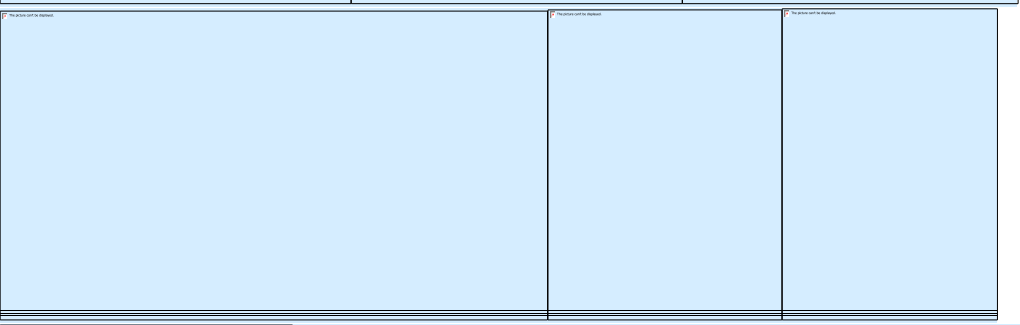
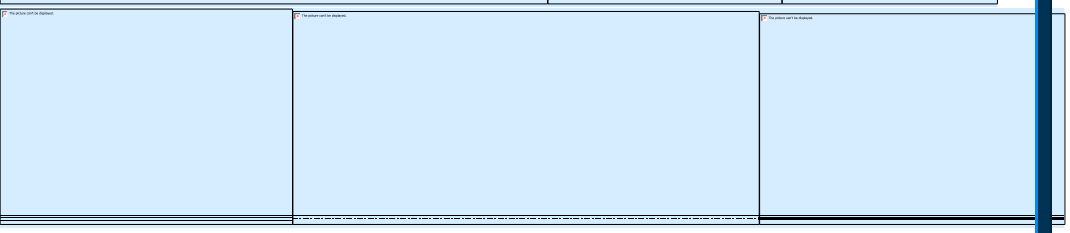

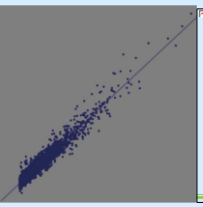

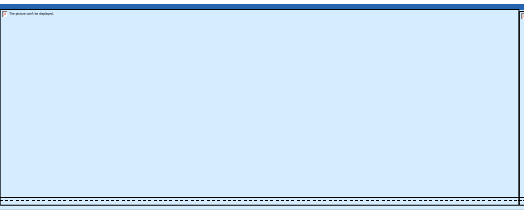
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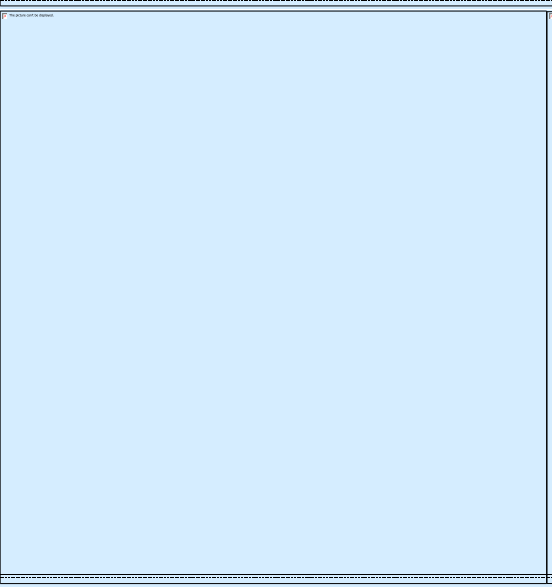
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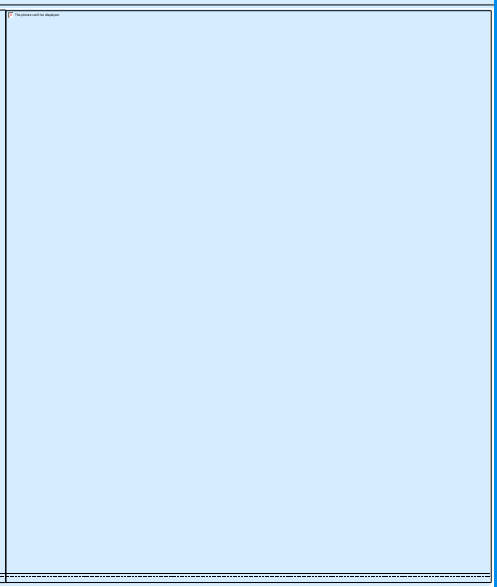
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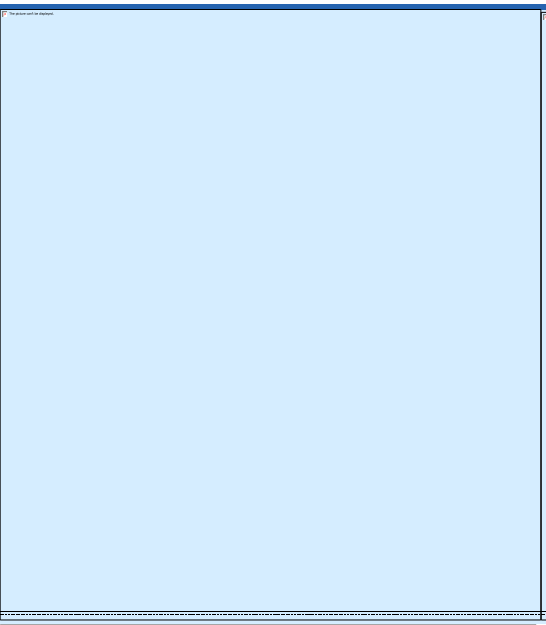
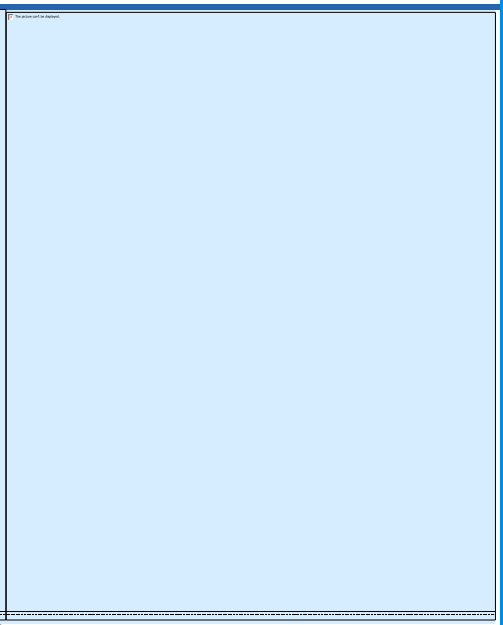
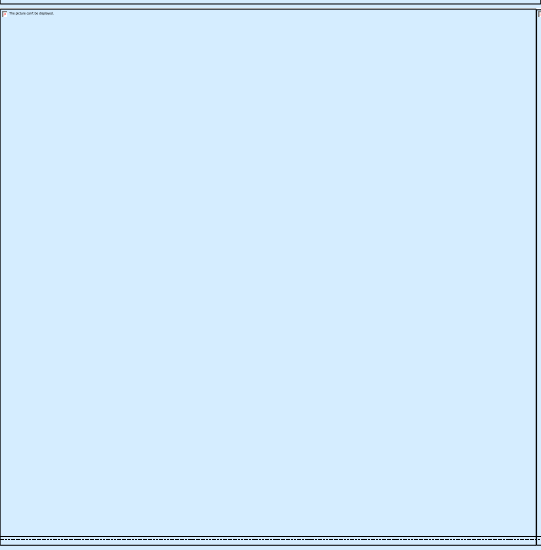
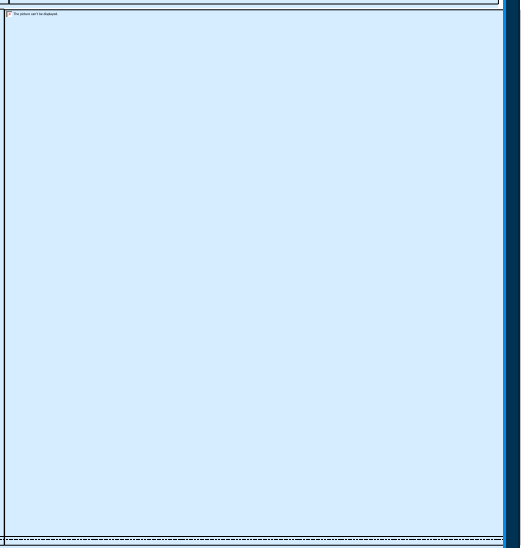
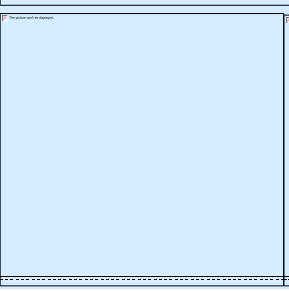
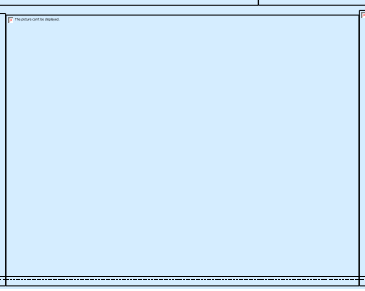



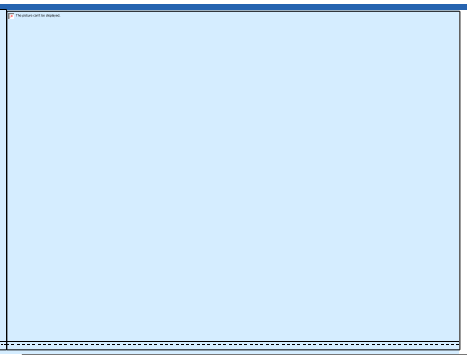


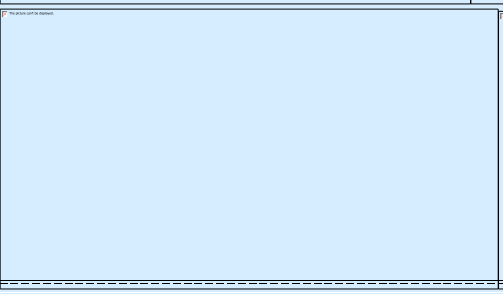
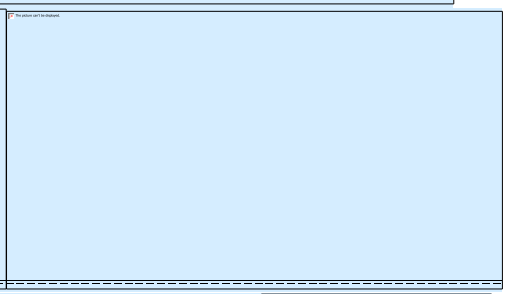
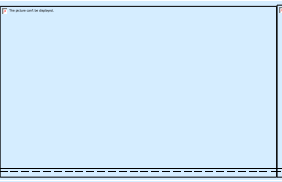
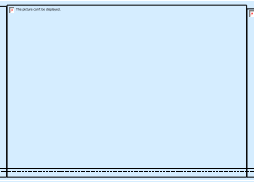
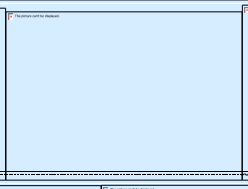
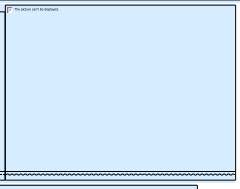
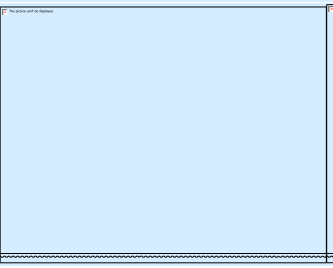
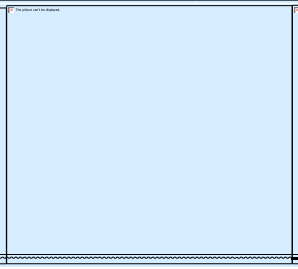
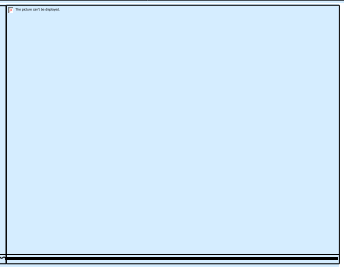

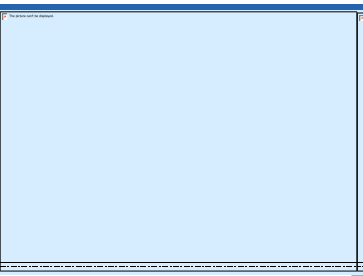
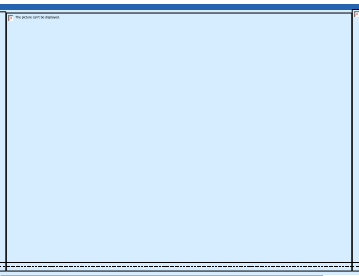


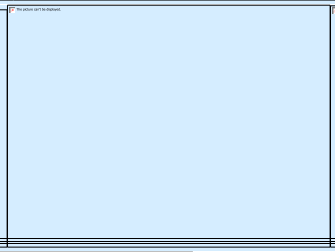

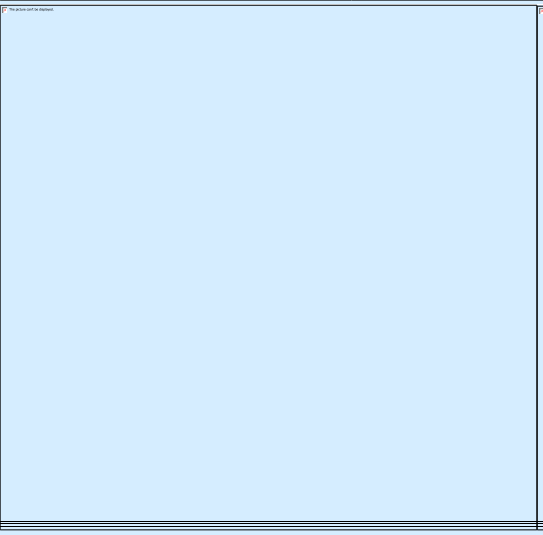
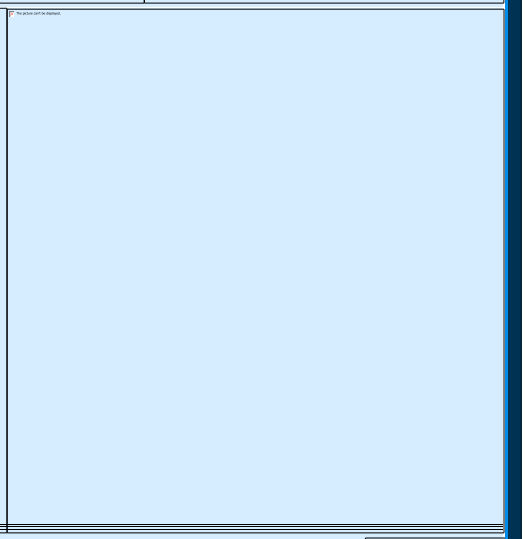
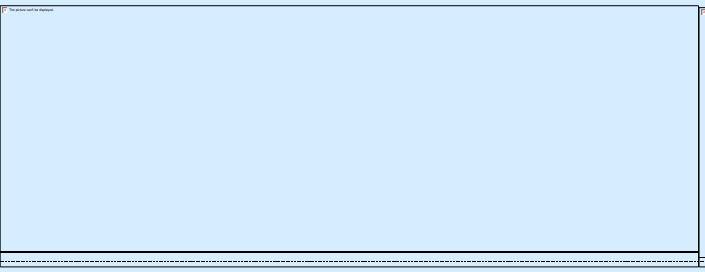
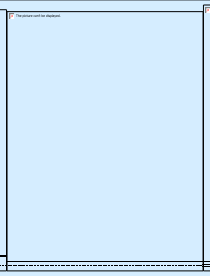
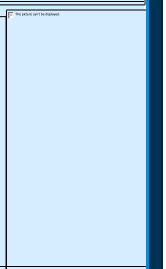


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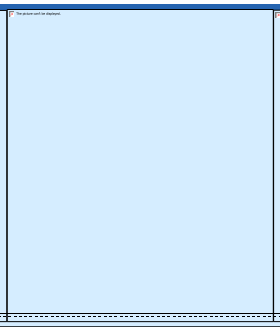
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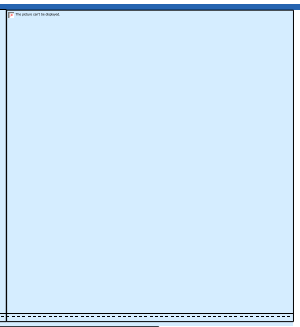
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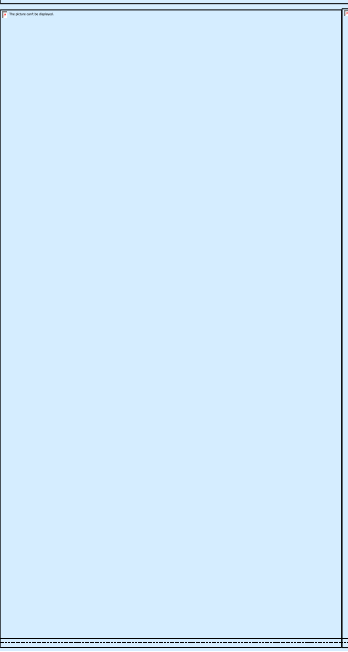
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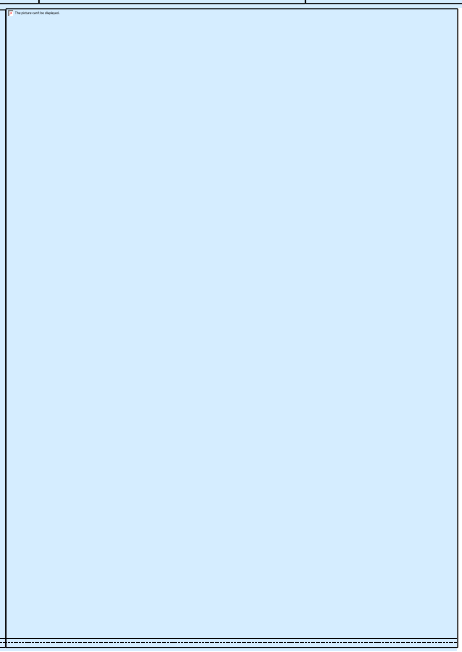
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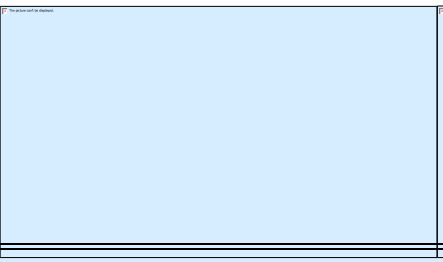
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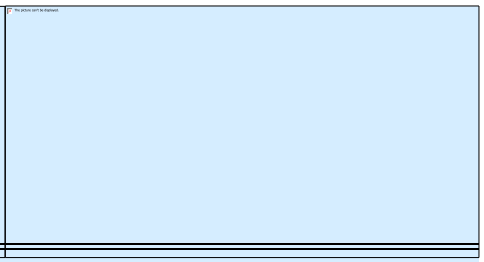
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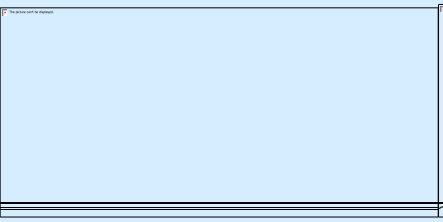
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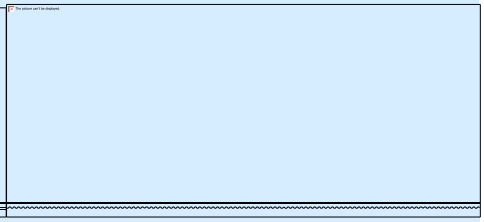
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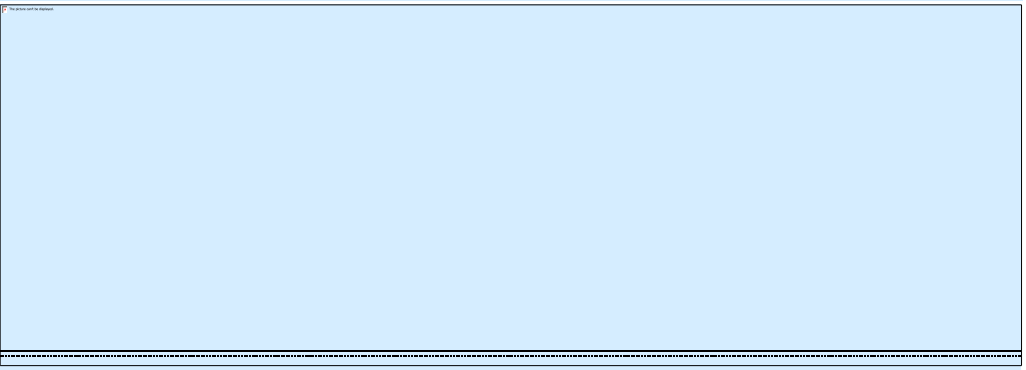
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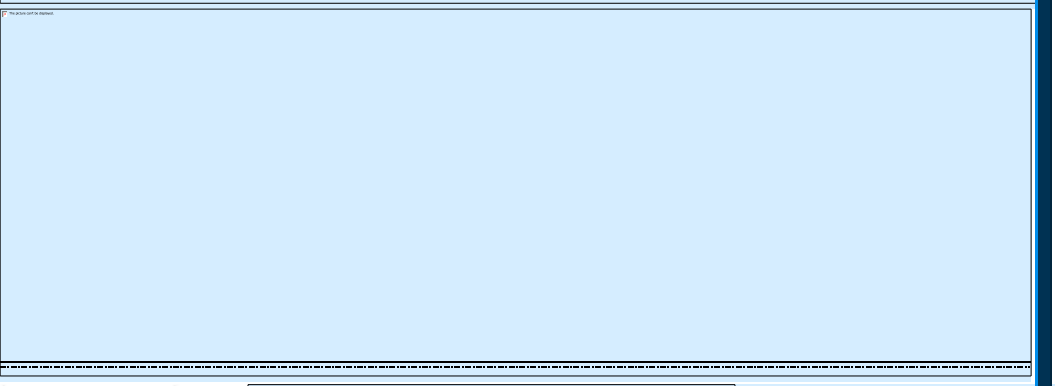
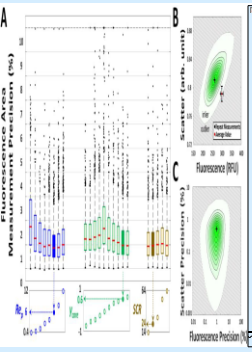
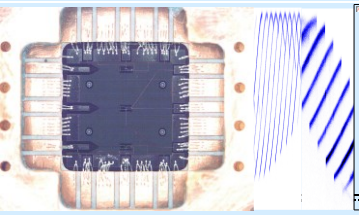
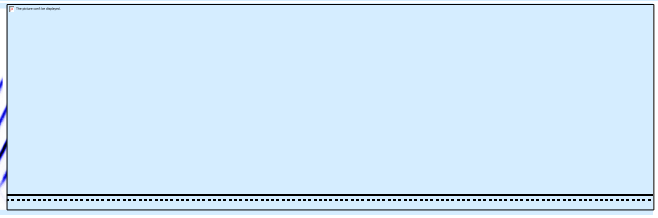
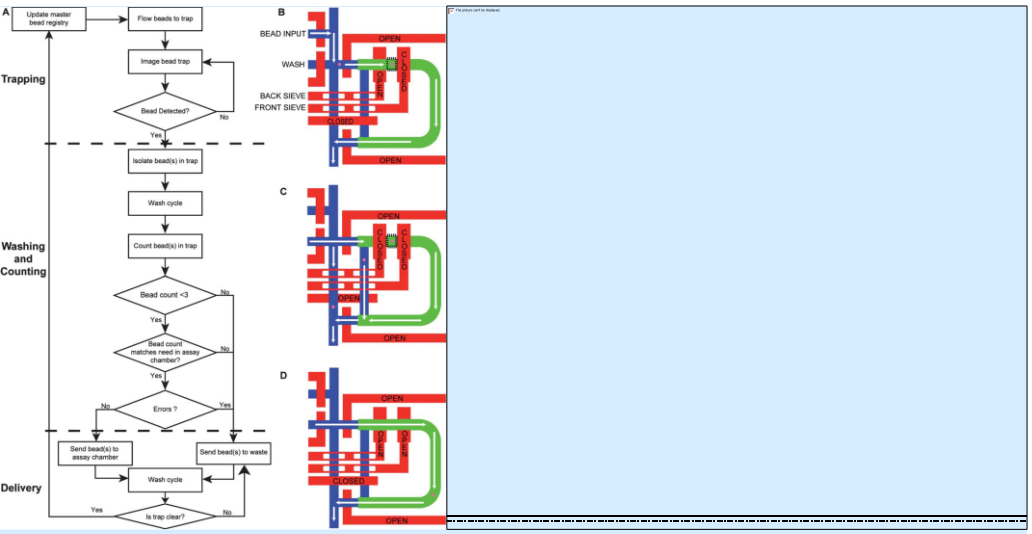
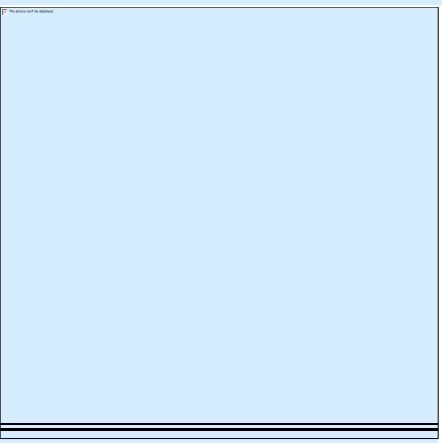



A
Measurement Area
Fluorescence Area
Measurement (%)
B
Scatter (arb. unit)
Fluorescence (RFU)
C
Scatter Precision (%)
Fluorescence Precision (%)









3. Plants in the Ukraine Showing Increased Natural Radioactivity

"On the Increase of Natural Radioactivity in Plants," by Academician P. A. Vlasyuk and O. P. Golykova, Ukrainian Scientific Research Institute of Plant Physiology; Kiev, Dopovidi Ukrayins'koyi Akademiyi Sil's'kohospodars'kykh Nauk, No 6, Nov/Dec 58, pp 6-8

After conducting a number of experiments in the study of the natural radioactivity of sugar beet and winter wheat plants, the authors arrived at the following conclusions:

8. Kinetics of Nitration of Methane With Nitrogen Dioxide

"The Kinetic Mechanism of the Reaction Between Methane and Nitrogen Dioxide," by T. V. Fedorova, A. P. Ballod, Academician A. V. Topchiyev, and V. Ya. Shtern, Petroleum Institute of the Academy of Sciences USSR; Moscow, Doklady Akademii Nauk SSSR, Vol 123, No 5, 11 Dec 59, pp 860-863

The vapor-phase nitration of methane with nitrogen dioxide was investigated with the view of establishing experimentally whether this process, and processes of the nitration of alkanes in general, are of the free radical or chain reaction type. The problem had to be solved as to whether the experimentally determined reaction velocity corresponds to the bimolecular stage of a free radical process that proceeds with difficulty or represents the velocity of a complex chain process which imitates a bimolecular reaction. It was concluded on the basis of the results obtained that the primary stage of nitration, which determines the velocity of the reaction, can be represented by the equation

$$RH + NO_2 \longrightarrow R + HNO_2 \qquad (1)$$

10. Calorific Value of Jet Kerosenes

"The Calorific Value of Aviation Kerosenes Produced by the Thermal Cracking of Mazuts," by M. F. Nagiyev and L. I. Tryapina, Petroleum Institute, Academy of Sciences Azerbaydzhan SSR; Baku, Doklady Akademii Nauk Azerbaydzhanskoy SSSR, Vol 15, No 1, Jan 59, pp 25-28

The calorific values were determined of aviation kerosenes obtained by the thermal cracking of mazuts derived from Karachukhur crude, heavy Balakhansk crude, and mazut remaining after the distillation of a mixture crudes. It was established that the quality of the initial raw material has a greater effect on the calorific value of aviation kerosenes obtained by the thermal cracking of mazuts than the conditions of cracking. Among the aviation kerosenes investigated the highest calorific values per unit of weight were exhibited by kerosenes produced by the thermal cracking of mazut derived from Karachukhur crude while the highest calorific values per unit of volume were exhibited by aviation kerosenes resulting from the thermal cracking of mazut derived from heavy Balakhansk petroleum. It was established that the calorific values of aviation kerosenes obtained by the thermal cracking of mazuts are inversely proportional to the content of aromatic hydrocarbons in these kerosenes.

Industrial Chemistry

11. Expansion of the Production and Application of Oxygen in the USSR Under the Current 7-Year Plan

"A new stage in the Development of the Production and Application of Oxygen," (unsigned article); Moscow, Kislorod, Vol 11, No 6, Nov/Dec 58, pp 1-2

10. Calorific Value of Jet Kerosenes

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18. Anthracene Insecticides

"Insecticide Preparations From Crude Anthracene: Their Preparation and Properties," by N. I. Burda, Nauchn. Tr. Ukr. N.-I. In-ta Ovoshchevodstva i Kartofelya (Scientific Works of Ukrainian Scientific Research Institute of Vegetable and Potato Cultivation), 1957, No 4, 265-271 (From Referativnyy Zhurnal--Khimiya, No 23, 10 Dec 58, Abstract No 78827 by I. Mil'shteyn)

The insecticidal properties of the following preparations based on anthracene (I) were studied: I with the addition of 3% and 5% of hexachlorocyclohexane, the product obtained by the interaction of I with petroleum sulfonic acids, sulfonated I, and the product obtained by the interaction of sulfonated I with petroleum sulfonic acids. Aphids of cucumbers, cabbage, sorrel and apple trees were completely eliminated by a 0.3 - 0.4 emulsion of the preparations. The effect of hexachlorocyclohexane on the insecticidal properties of the preparations becomes evident in dilute emulsions ($\leq$ 0.4%).

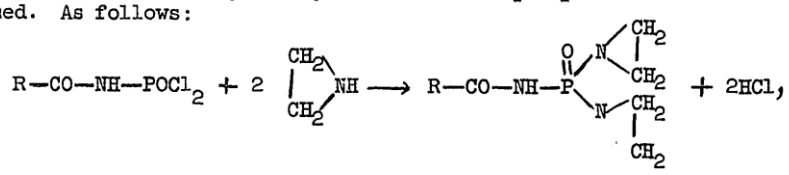
"An electric arc of high potential acts on the methane in the electric cracking process. The produced reaction gases contains 14% of acetylene and 57% of hydrogen. After leaving the reactor the gases are purified and then conducted into a system where acetylene is separated by extraction with selectively acting solvents (dimethylformamide, acetone, or butyrolactone).

23. Organophosphorus Research

"Acyldiethylentriamides of Phosphoric Acid," by L. D. Protsenko and K. A. Kornev, Ukrainian Scientific Research Sanitary Chemical Institute; Kiev, Ukrainskiy Khimicheskiy Zhurnal, Vol 24, No 5, 1958, pp 636-638

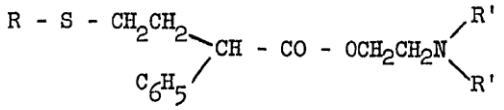
The acyl derivatives of diethylentriamides of phosphoric acid were prepared and characterized. The authors had previously reported on the aryl derivatives in Volume 22 of this same periodical (Ukrainskiy Khimicheskiy Zhurnal, Vol 22, 782, 1956).

Upon reacting dichloranhydrides with ethylenamine in the presence of triethylamine the acyldiethylentriamides of phosphoric acid are formed. As follows:



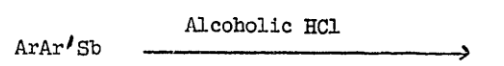
where R represents the following radical: benzoyl, para-nitrobenzoyl, para-bromobenzoyl, para-iodobenzoyl, para-chlorobenzoyl, para-fluorobenzoyl, para-methylbenzoyl and cinnamoyl.

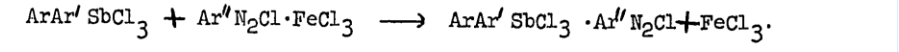
The amino esters (12 in all; not previously described in the literature) of beta-alkylmercaptoethylphenylacetic acids were synthesized and characterized. The purpose of the work was study of the cholinolytic properties of the compounds in question. These compounds have the following general formula:



where R = CH_3, C_2H_5, C_3H_7, iso-C_3H_7, C_4H_9, iso-C_4H_9; and R′ = CH_3, C_2H_5.

Compounds such as ArAr SbX_3 were isolated in the form of diarylstibinic acids and were identified as double diazonium salts, ArAr′ $SbCl_3$. Ar″ N_2Cl, according to a method devised by O. A. Reutov and A. Markovskaya (vide Doklady Akademii Nauk SSSR, Vol 99, p 543, 1954):





Twenty compounds are listed in a table; the percentage yield and the melting point of each are given.

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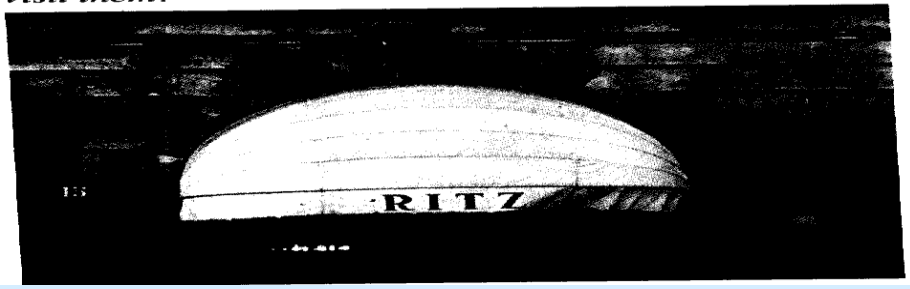
A SUBSIDIARY OF THE COCA-COLA COMPANY

HEMINGWAY'S PARIS

In a manner of speaking, for Ernest Hemingway Paris was the Ritz Hotel, and vice-versa. In the early days, of course, when he was poor and struggling, Ernest lived in furnished rooms on the Left Bank, but even then his good friends, Scott Fitzgerald and others, were staying at the Ritz and Ernest came often to the Ritz to visit them.



anniversary of the United Nations Declaration that maybe there should be a High Commissioner for Human Rights empowered to go anywhere in the world to investigate the denial of these rights and to report to all the world when humans were being mistreated.''

''Did you appoint such a person?''

''Well, no. It was all caught up in resistance by individual nations, especially those denying human rights, saying that no one should interfere in their internal affairs, that others were worse than they were, that their national sovereignty was more important than anything else.''

At this point, my questioners almost exploded: ''More important than those human rights without which you say you cannot live a really human life among us? If what you request of us is right, how could humans on earth deny it and still have a decent human condition on earth?''

''Now you make me confess, with some shame I finally admit, we did not really have a decent human condition on earth for the majority of human beings. There were few very rich and many very poor. A few were free, but most, in one way or another, were slaves. There was little real interest in bridging the gap. The few wealthy nations gave less than half of one percent of their gross national product to help the poor. They all, rich and poor, spent many times more than that, about $300 billion a year, to buy the newest weapons of destruction. We had a wonderful saying of long ago about peace coming when we turned our swords into plowshares, but no one took that too seriously. If you were really concerned about arms control, you were suspected of being a kind of traitor. The patriots were those who insisted on building up mountains of armaments.''

''Didn't anyone see the insanity of all this? Where it was leading?''

''Well, the United States had a President who spoke of curtailing the arms race and began to criticize these denials of human rights when they occurred, in both large and small countries. He said we couldn't run someone else's country, but that when they did something inhumane, he was going to say that we thought it wrong, that we would try to stand for human rights, freedom, and dignity, both at home and abroad.''

Finally, my questioners seemed relieved and asked: ''Was he cheered for that concern for the most important need of human kind across the earth?''

''A few who deeply believed that what he was doing was right and long overdue cheered him, but the cheers were drowned out, both in his own country and abroad, by powerful people who said he was too moral, too relgious, too naive, too frank, too likely to cause worse problems, if you can imagine what could be worse.''

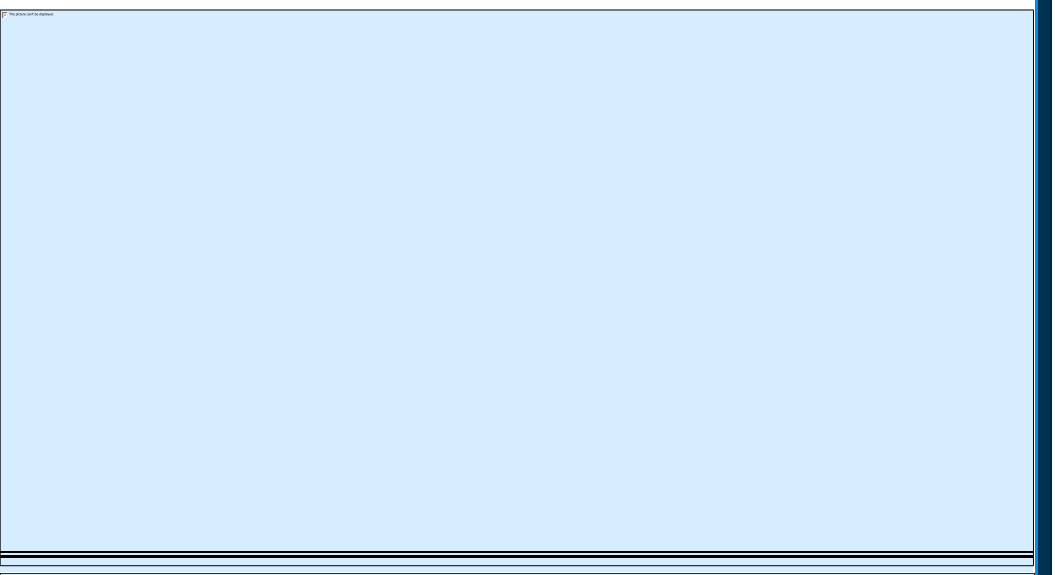
''Did it get worse?''

''Much worse. When I left earth, the great opposing powers were about to blow each other up and destroy the rest of the world in the process. In fact, that's why I left to seek a better world. Humans on earth just did not seem interested in saving themselves.''

A final question: ''And this President who tried to turn the tide, what happened to him?''

''He is an old man today and one of the few on earth who still believes in human freedom. I hold many of his beliefs because I am his grandson. In fact, I was born a few weeks after he became President and was named after him.

My name is James Earl Carter.''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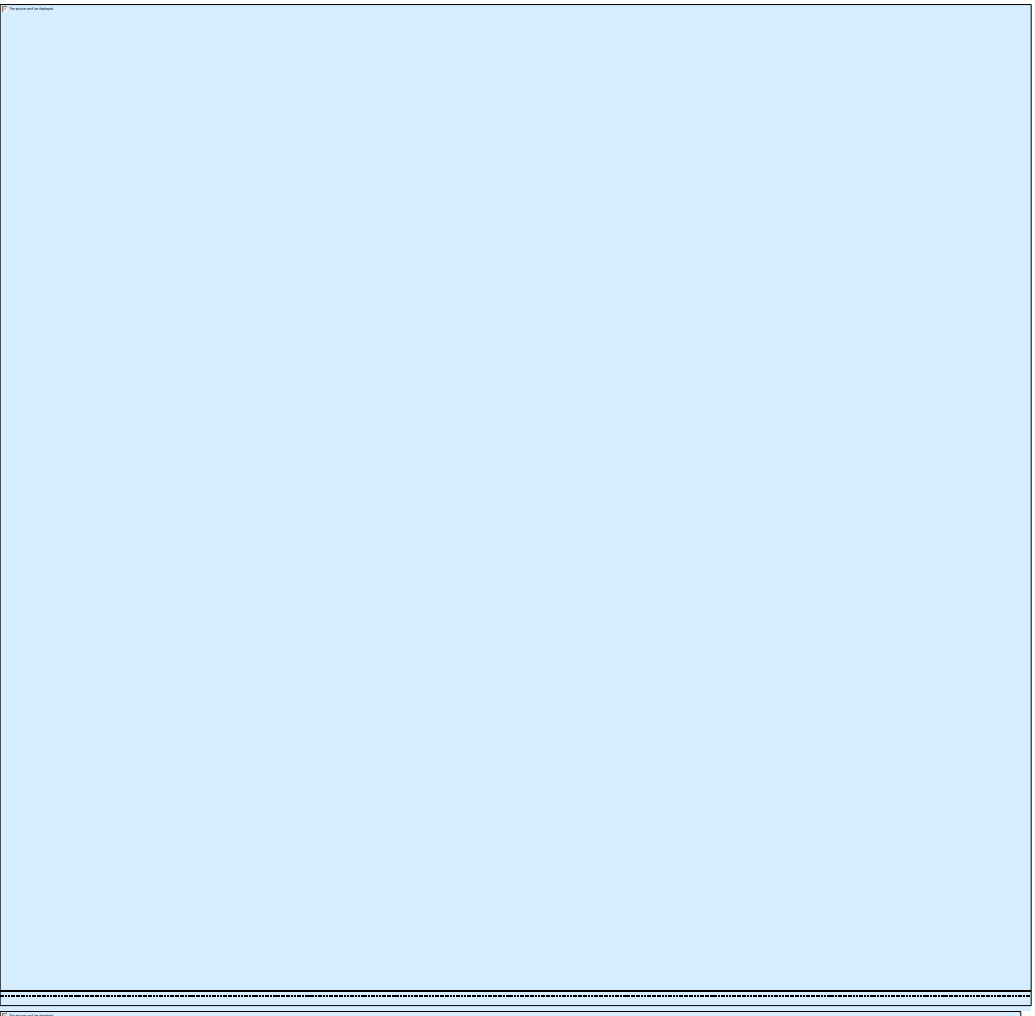
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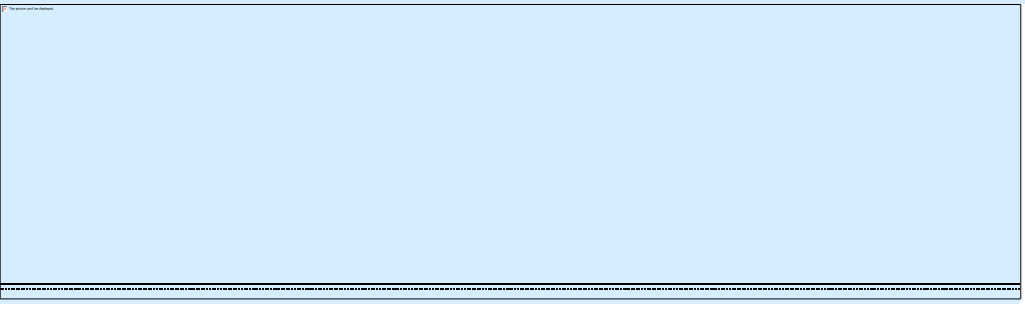
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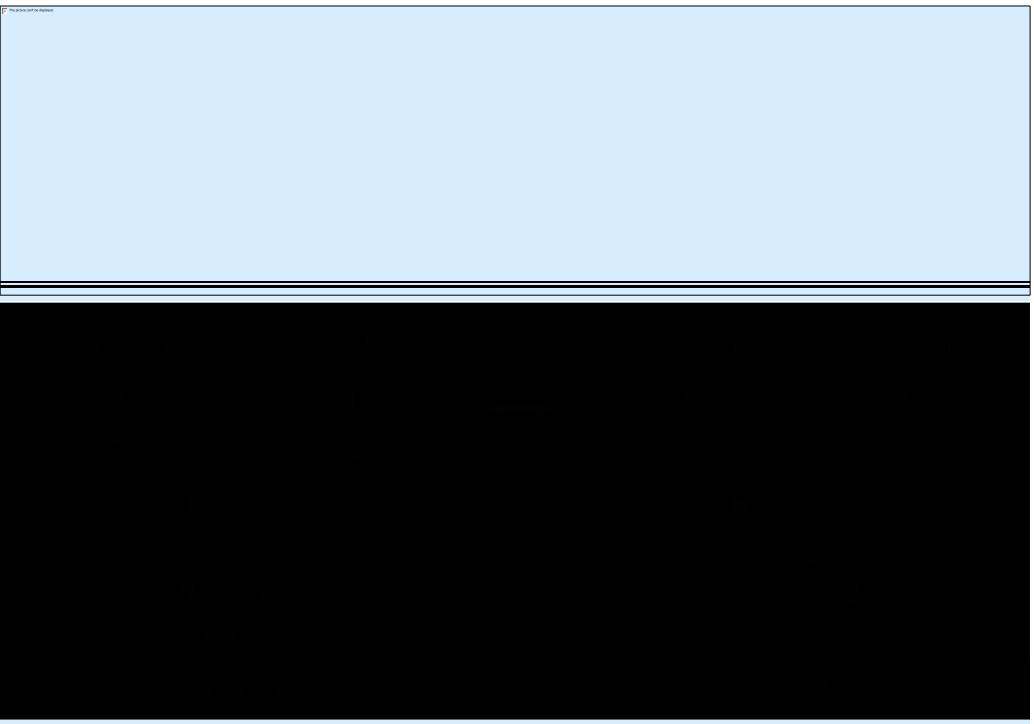
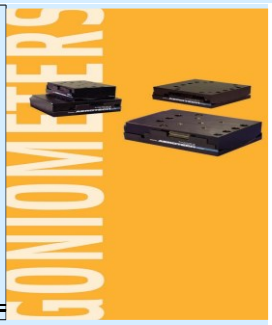
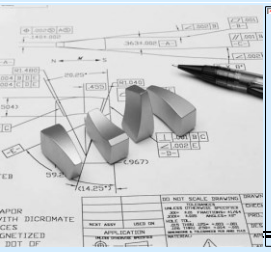



GONIOMETERS



37 One possible set of parameters for such a receiver is as follows:

Sub-bands	30 to 60 Mc, 60 to 120 Mc, 120 to 240 Mc, 240 to 480 Mc, and 480 to 1000 Mc.
I-F bandwidths	0.3 Mc, 0.6 Mc, 1.2 Mc, 2.4 Mc, and 4.8 Mc
Scan Rate	3 Mc per second, 6 Mc per second, 12 Mc per second, 24 Mc per second, and 48 Mc per second.
Total scan time	10 seconds

First Law:

$$\begin{aligned} A\bar{C} &= A'' \\ B\bar{D} &= B'' \\ C\bar{A} &= C'' \\ D\bar{B} &= D'' \end{aligned} \qquad (6)$$

Second Law:

$$\begin{aligned} A''\bar{D}'' &= A' \\ B''\bar{A}'' &= B' \\ C''\bar{B}'' &= C' \\ D''\bar{C}'' &= D'' \end{aligned} \qquad (7)$$

Interpolate Law:

$$A''B'' \; B''C'' \; C''D'' \; D''A'' = I \qquad (8)$$

$$\text{or } (A'' + C'')(B'' + D'') = I$$

196 The computer is required to accept data at a random rate. The shortest time interval between a pair of intercepts from the same radar will be 100 μsec and the longest will be 50,000 μsec. A complete intercept word consists of the following basic data in binary digit form:

Frequency	7 bits
Direction	5 bits
Pulse width	7 bits
PRF	10 bits
Total	29 bits

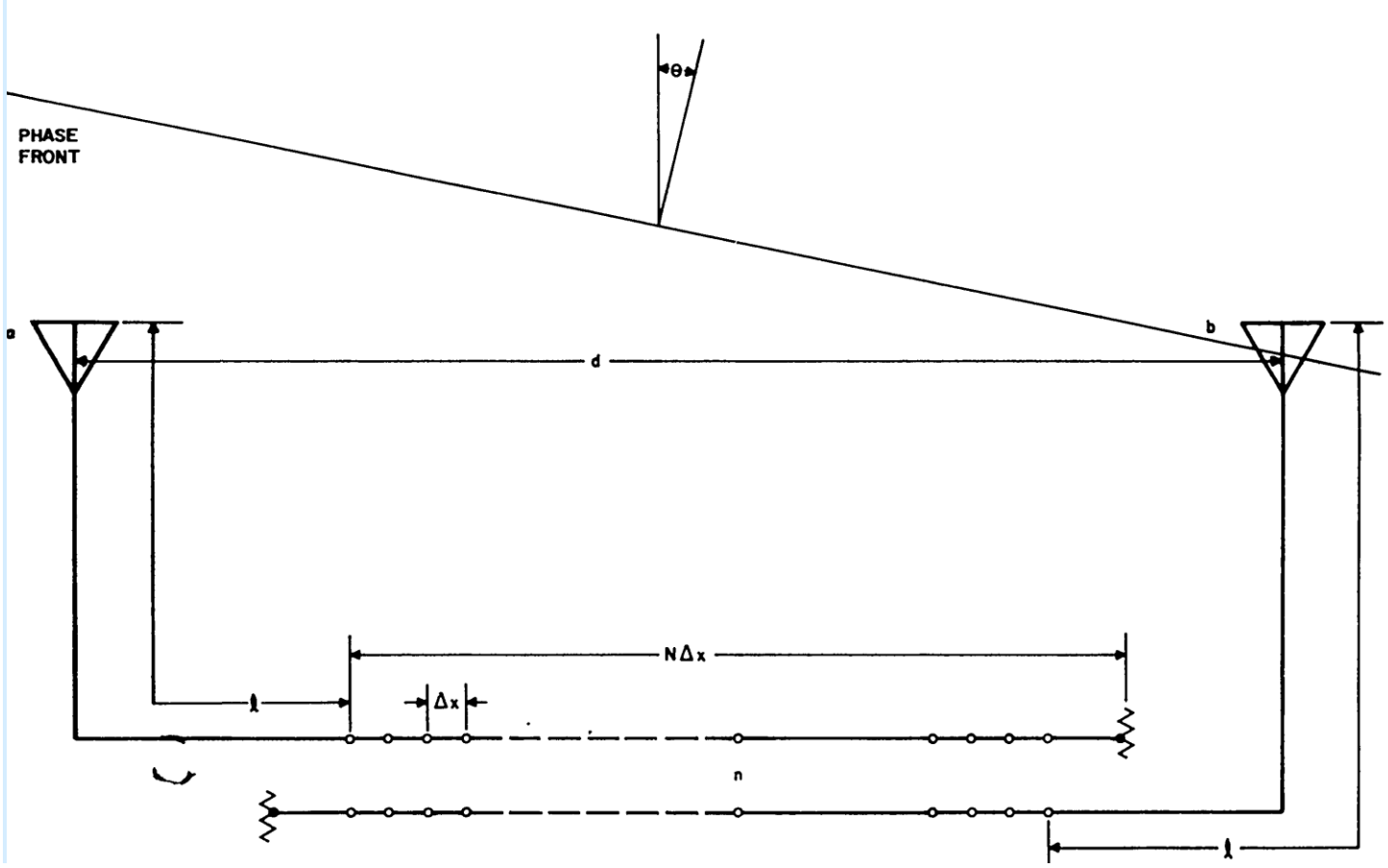
197 The computer must be capable of storing these four pieces of radar information for each of as many as five different signals. For the present system, this requires a memory capacity of 29 bits in each of five storage units (called trunk memories), or 145 bits. One of the important considerations in the design of the computer is flexibility in the number of trunks and in the number of bits per signal that can be used. It is desired that this type of system be capable of use in equipments that are to have a different capacity from the equipment presently under consideration. This requires that the equipment be designed from the building-block point of view, where a complete equipment can be built by wiring together sufficient small standard blocks to equal

216 Transistor flip-flops, unijunction transistors, pulse-driven magnetic cores, and r-f driven magnetic covers were studied for use as memory cells.

217 Families of parameters of unijunction transistors exhibited very wide spreads at room temperature. Temperature variations can be expected to superpose further large changes in the parameter spread. Further, there was only one manufacturer of unijunction transistors. For these reasons, application of unijunction transistors was not considered.

218 R-F driven cores (the Potter Magnistor) were not used, because (1) they are specialized devices manufactured by only one supplier; (2) they require high power consumption from a special r-f supply, with possible attendant shielding problems; (3) they are relatively large and heavy; and (4) they cannot easily provide indication of state.

219 A computer using pulse-driven magnetic cores and transistor drivers was compared with one using transistors only. From considerations of memory-cell requirements, reliability, general suitability to the intercept problem, development time, production, operation, and maintenance,


θ
PHASE
FRONT
a
b
d
NΔx
Δx
n
l

238 PRF counting is performed in a quasi-logarithmic fashion. This is accomplished by starting the counting process at a high rate (4-μsec intervals between drive pulses), and reducing the rate in steps at specified count levels as the total accumulated count increases. This approximates a true logarithmic counter, in which the count rate would decrease continuously as the total count increased.

239 Figure 89 is a block diagram of the quasi-logarithmic PRF analyzer. The basic counting rate is determined by the shortest interval (corresponding to the highest PRF) to be measured and the required accuracy. The highest PRF is 10 kc; the shortest interval then is 2 X 1/10,000 = 200 μsec, the factor 2 entering because the PRF counter is used for intercept verification. The required accuracy is ±2 percent. Thus, 0.02 x 200 = 4 μsec is the basic counting interval, and $1/4 \times 10^{-6} = 0.25$ Mc is the counting rate.

240 The largest number to be counted is determined by the longest interval (corresponding to the lowest PRF) to be measured and the basic counting rate. The longest interval is 2 X 1/20 = 100,00 μsec and the largest count is 0.25 X 100,000 = 25,000.

241 The quasi-logarithmic analyzer is divided into two groups of circuits--common and trunk. Common circuits serve all five trunks; these circuits consist of the basic rate generator and count-down circuits. Trunk circuits are those that are included individually in each trunk.

242 Since one set of drivers serves five sets of counters whose starting and stopping times occur at random,

These principles extend to the remaining trunks, and are summarized by the following Boolean equations, in which the subscripts 1 through 5 denote correspondence with the trunks that are so numbered, A_8 through E_{12} are direction memories corresponding to trunks 1 through 5, O is an occupancy (busy) signal, T is a trunk-gate pulse, and Z is the enable pulse.

$$O_1 = A_8 + A_9 + \cdots A_{12} \tag{9}$$

and so on to

$$E_5 = E_8 + E_9 + \cdots E_{12} \tag{10}$$

$$T_1 = Z\bar{O}_1 \tag{11}$$

$$T_2 = ZO_1\bar{O}_2 \tag{12}$$

and so on to

$$T_5 = ZO_1O_2O_3O_4\bar{O}_5 \tag{13}$$

An occupancy signal, O_n, is generated if any direction memory of the corresponding trunk is set. A trunk-gate pulse, T_n, is generated if simultaneously (1) the enable pulse Z is applied, (2) the n^{th} trunk is not busy, and (3) all lower-numbered trunks are busy.

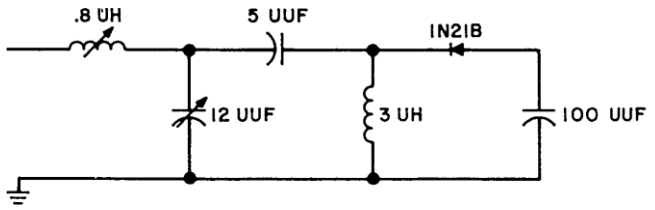
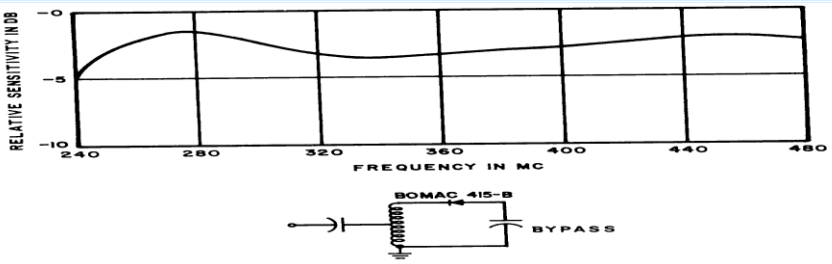
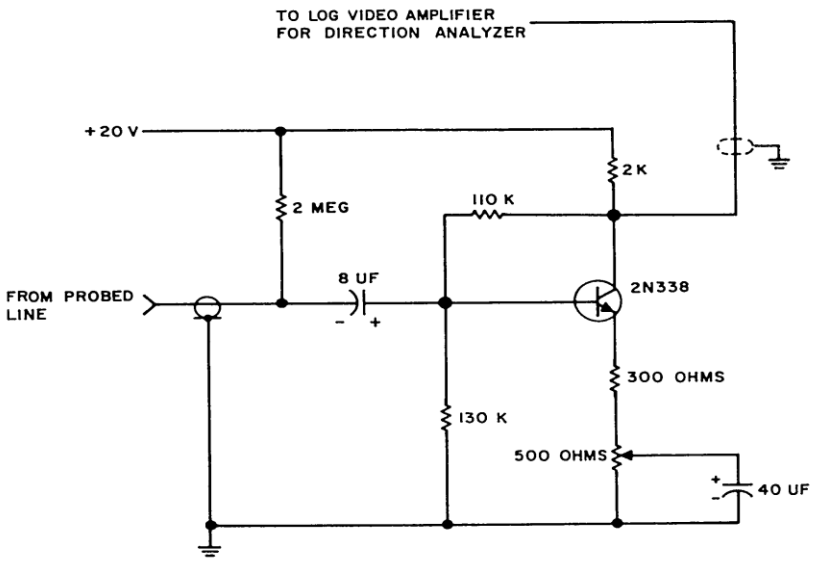
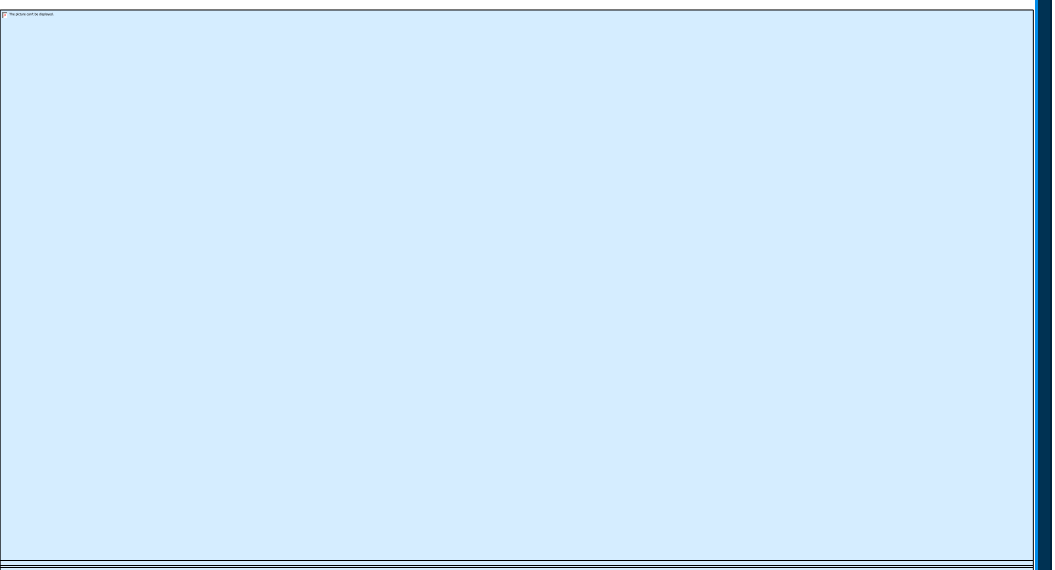


FIGURE 16. SENSITIVITY VS FREQUENCY OF DETECTOR MOUNT FOR SUB-BAND I (WITH RESPECT TO TUNED DETECTOR MOUNT)




TO LOG VIDEO AMPLIFIER
FOR DIRECTION ANALYZER
+20 V
2 MEG
2 K
110 K
FROM PROBED
LINE
8 UF
2N338
300 OHMS
130 K
500 OHMS
40 UF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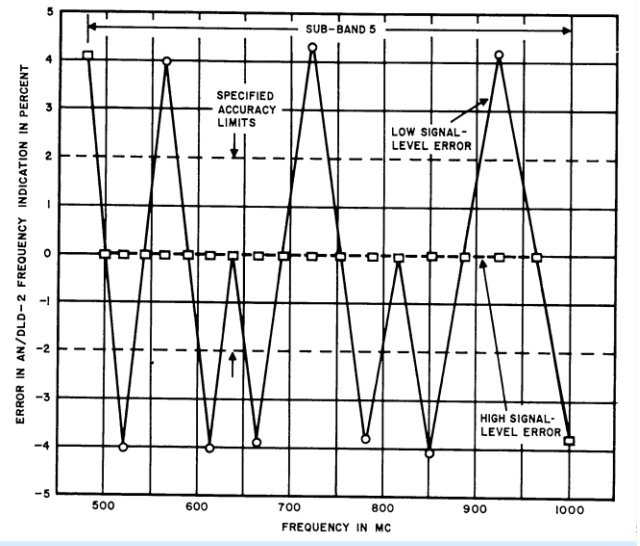
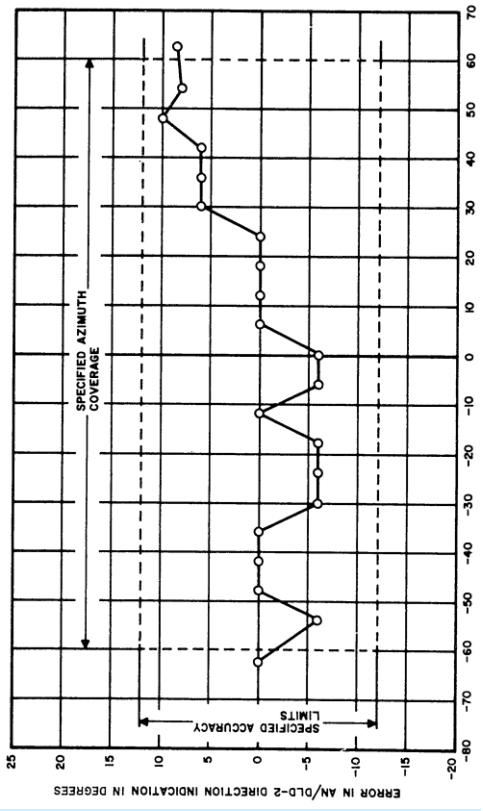
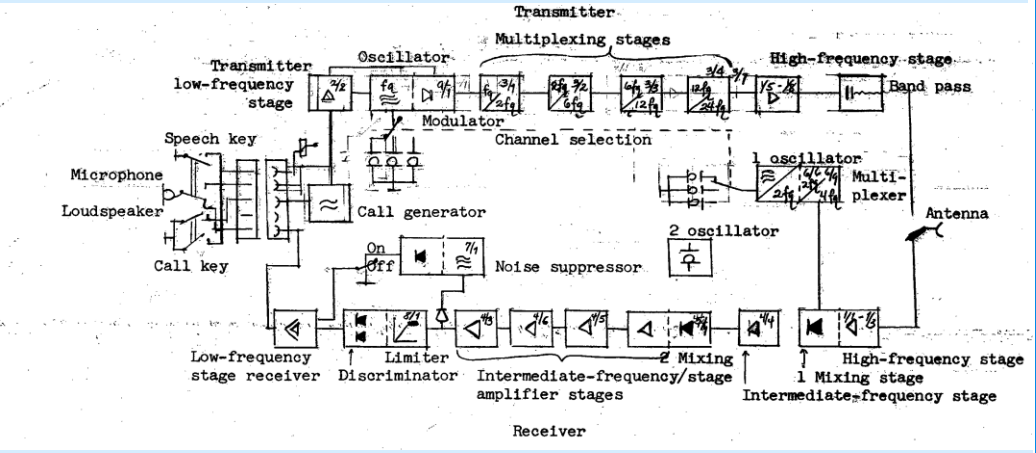
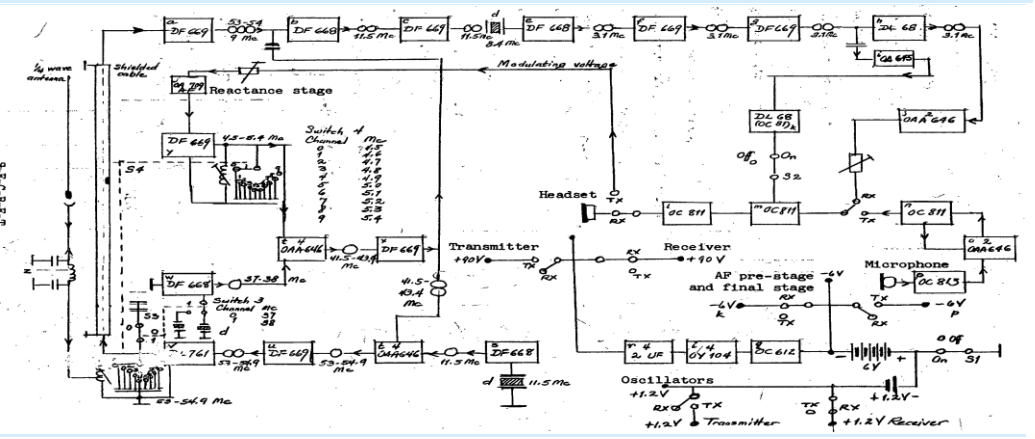
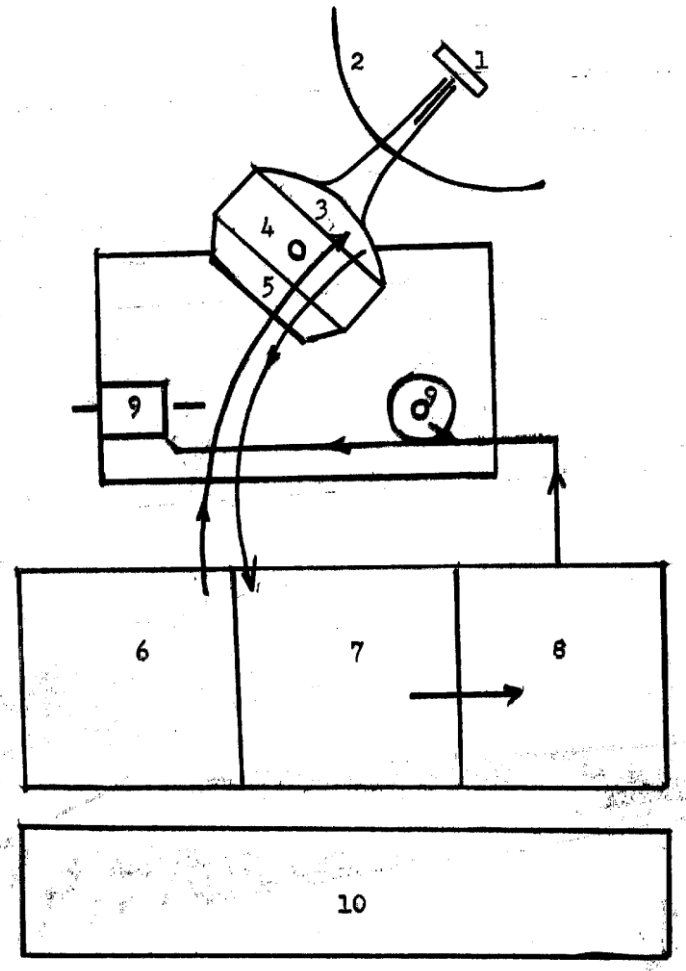

SUB-BAND 5
SPECIFIED ACCURACY LIMITS
LOW SIGNAL-LEVEL ERROR
HIGH SIGNAL-LEVEL ERROR
ERROR IN AN/DLD-2 FREQUENCY INDICATION IN PERCENT
FREQUENCY IN MC
5
4
3
2
1
0
-1
-2
-3
-4
-5
500
600
700
800
900
1000

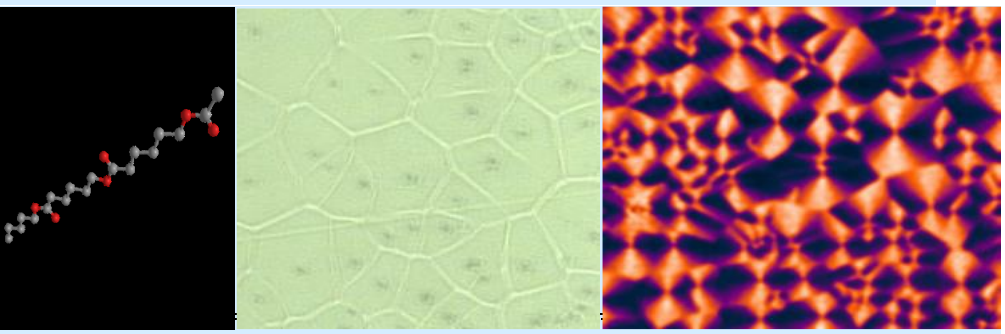

SPECIFIED AZIMUTH COVERAGE
SPECIFIED ACCURACY LIMITS
ERROR IN AN/DLD-2 DIRECTION INDICATION IN DEGREES
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
25
20
15
10
5
0
-5
-10
-15
-20

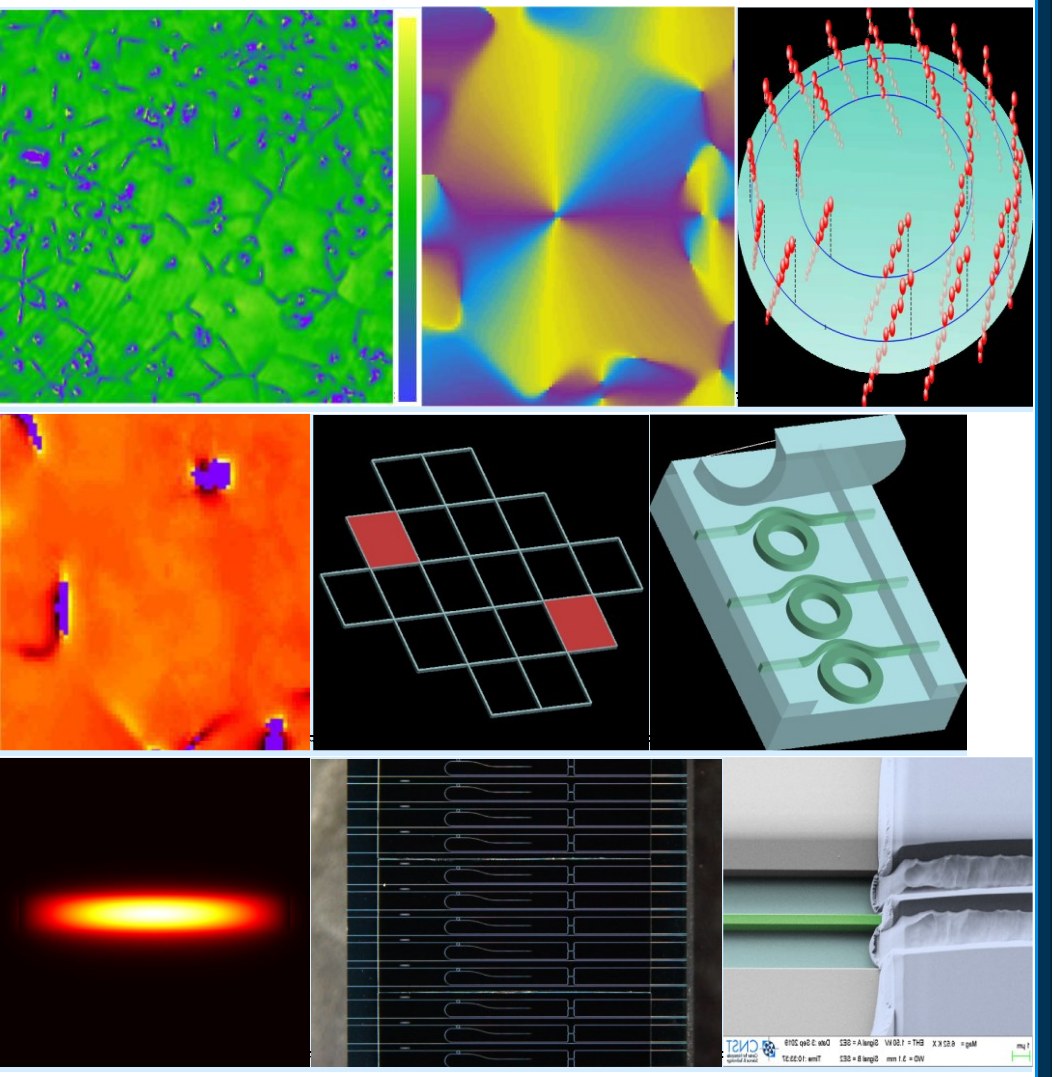

Transmitter
Multiplexing stages
Transmitter low-frequency stage
Oscillator
High-frequency stage
Band pass
Modulator
Channel selection
Speech key
Microphone
Loudspeaker
Call generator
1 oscillator
Multi-plexer
Antenna
2 oscillator
Call key
On
Off
Noise suppressor
Low-frequency stage receiver
Discriminator
Limiter
2 Mixing
Intermediate-frequency/stage amplifier stages
1 Mixing stage
High-frequency stage
Intermediate-frequency stage
Receiver

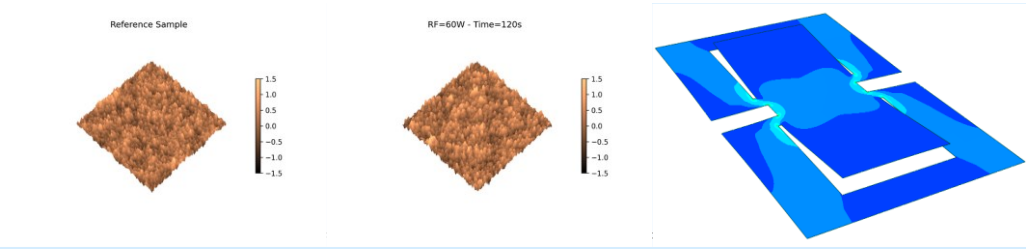

Shielded cable
Reactance stage
Modulating voltage
Switch (Channel)
Headset
Transmitter
Receiver
AF pre-stage and final stage
Microphone
Oscillators
Transmitter
Receiver

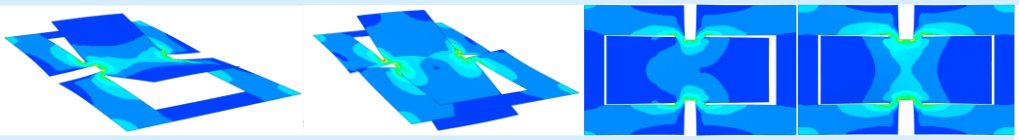
Switching Diagram of the Target-Seeking Device

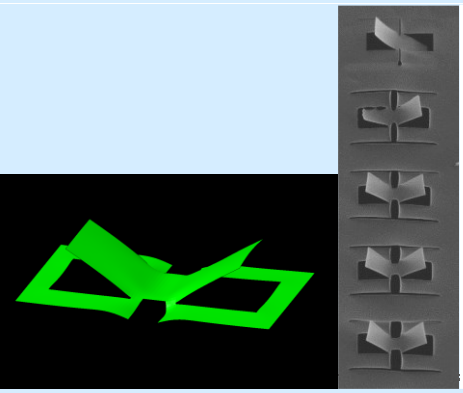


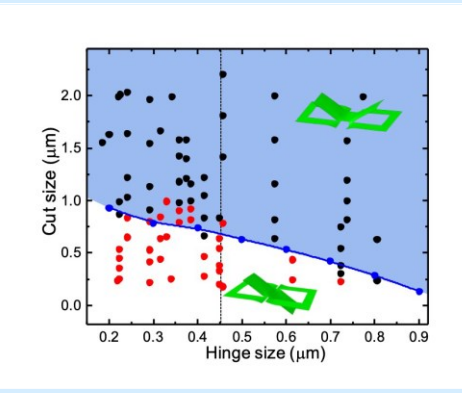


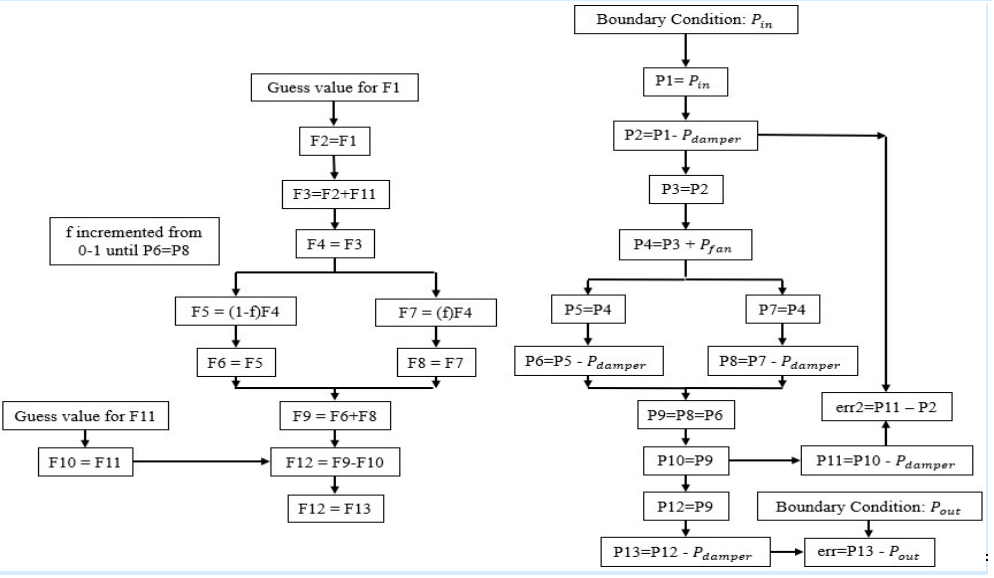


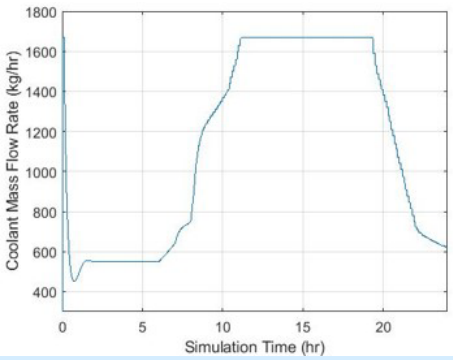

Reference Sample
RF=60W - Time=120s

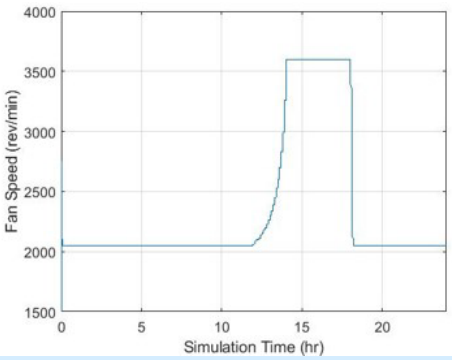


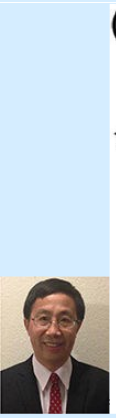


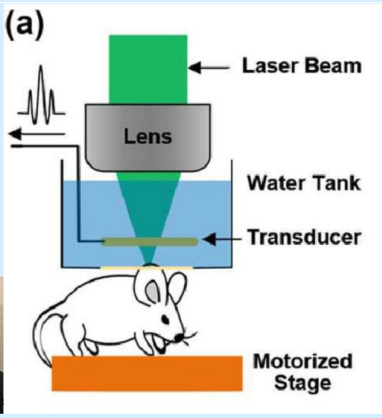

Cut size (µm)
Hinge size (µm)

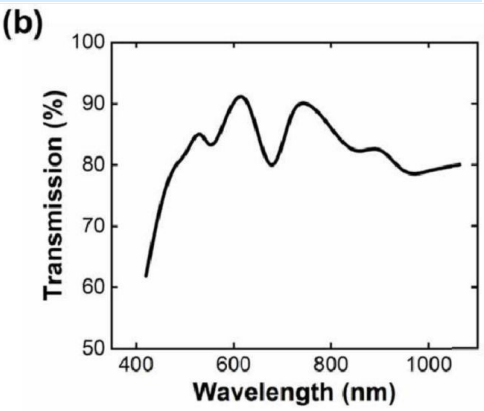

Boundary Condition: P_{in}
P1= P_{in}
P2=P1- P_{damper}
P3=P2
P4=P3 + P_{fan}
P5=P4
P7=P4
P6=P5 - P_{damper}
P8=P7 - P_{damper}
P9=P8=P6
P10=P9
P11=P10 - P_{damper}
P12=P9
P13=P12 - P_{damper}
err2=P11 – P2
Boundary Condition: P_{out}
err=P13 - P_{out}
Guess value for F1
F2=F1
F3=F2+F11
F4 = F3
f incremented from 0-1 until P6=P8
F5 = (1-f)F4
F7 = (f)F4
F6 = F5
F8 = F7
F9 = F6+F8
Guess value for F11
F10 = F11
F12 = F9-F10
F12 = F13

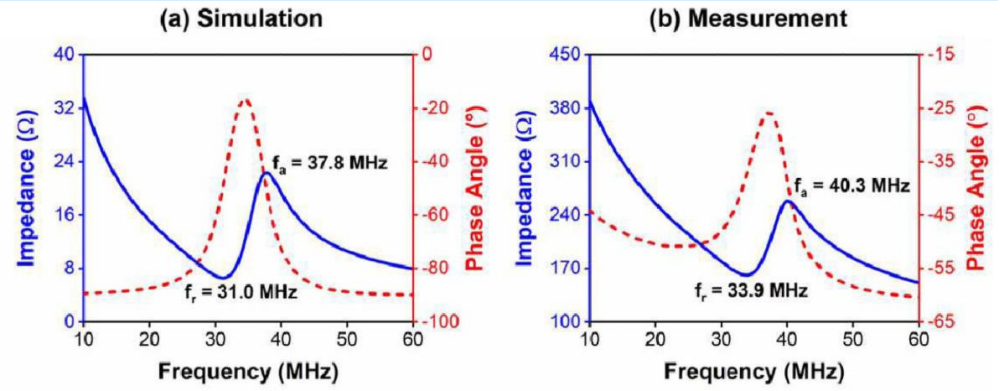

Coolant Mass Flow Rate (kg/hr)
Simulation Time (hr)

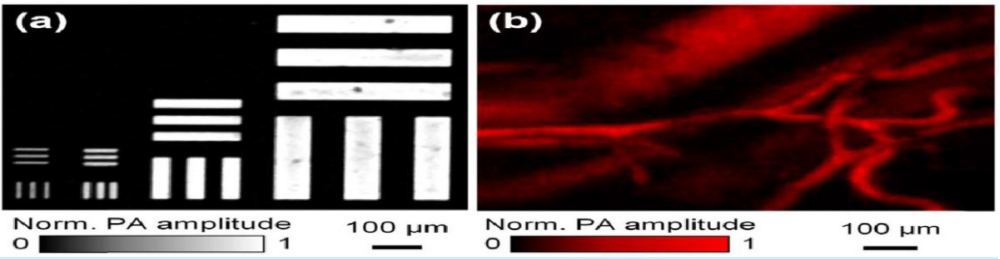

Fan Speed (rev/min)
Simulation Time (hr)




(a)
Laser Beam
Lens
Water Tank
Transducer
Motorized Stage


(b)
Transmission (%)
Wavelength (nm)


(a) Simulation
(b) Measurement
Impedance (Ω)
Phase Angle (°)
f_a = 37.8 MHz
f_r = 31.0 MHz
f_a = 40.3 MHz
f_r = 33.9 MHz
Frequency (MHz)


(a)
(b)
Norm. PA amplitude
0
1
100 μm

auch in den Händen der Sowjets sind, kann man dar-
überhinaus Gespräche in einem fahrenden Auto mit-
hören, andere wieder brauchen nur an die Wand
eines Zimmers befestigt zu werden, um selbst die im
Nebenzimmer geführte Unterhaltung abhören zu
können.

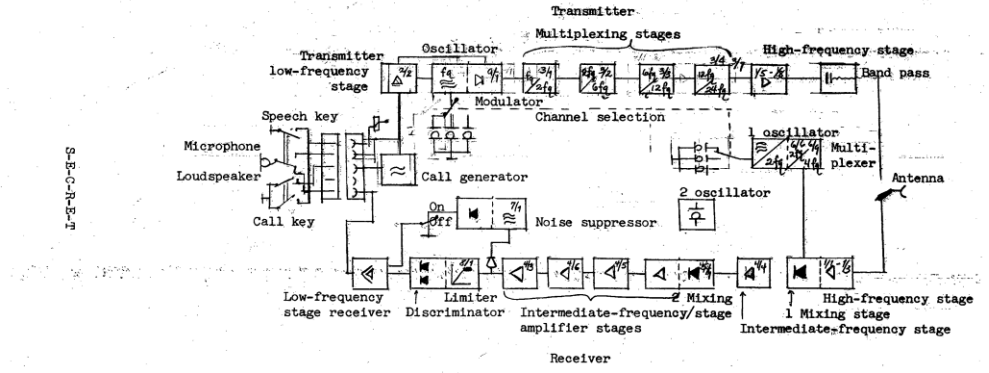
Diese technische Spionage wird dadurch nur noch
raffinierter, daß gegenwärtig sowohl in den USA als
aber auch in Rußland ein Gerät entwickelt worden ist,
dem Telephonleitungen angezapft werden können,
durch über besondere Spulenanordnungen
Induktionsströme — ohne sie zu unterbrechen —
Sinne des Wortes direkt anzapfen zu
lingt es, derartige Geräte an zentrale Punkte
zubringen, so ist es durchaus möglich,
Telephonnetz einer Stadt unter Kontrolle
gen und auch jedes Gespräch mit
zunehmen!

106. All-China Conference on Management of Burns

"All-China Conference for Exchange of Experience in the Prevention and Treatment of Burns," by Wu Chieh-p'ing (吳 階平 : Peiping, Chung-hua Wai-k'o Tsa-chih (Chinese Journal of Surgery), Vol 6, No 12, 1959, pp 1313-1321

This item reports highlights at the All-China Conference for Exchange of Experience in the Prevention and Treatment of Burns which convened in Shanghai, 3-9 November 1958. The meeting was attended by 254 delegates, including 150 practioners of traditional medicine, from 27 provinces and municipalities.

Block Diagram of Transceiver



KPMG CONTRACTIBLES

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Mission Towers I
Suite 100
3975 Freedom Circle Drive
Santa Clara, CA 95054

Independent Accountant's Report

To the Management of Symantec Corporation:

We have examined the assertions by the management of Symantec Corporation ("Symantec"), regarding the disclosure of its key and certificate life cycle management business practices, the effectiveness of its controls over key and SSL certificate integrity and the authenticity of subscriber information, based on the WebTrust Principles and Criteria for Certification Authorities – Extended Validation SSL – V 1.4.5, during the period December 1, 2014 through November 30, 2015, for the Symantec owned Thawte Extended Validation SSL CAs (Thawte EV SSL CAs) in Appendix A.

Symantec's management is responsible for its assertion. Our responsibility is to express an opinion on management's assertion based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants, and accordingly included (1) obtaining an understanding of Symantec's Thawte EV SSL certificate life cycle management business practices, including its relevant controls over the issuance, renewal and revocation of Symantec's Thawte EV SSL certificates; (2) selectively testing transactions executed in accordance with disclosed EV certificate life cycle management business practices; (3) testing and evaluating the operating effectiveness of the controls; and (4) performing such other procedures as we considered necessary in the circumstances. We believe that our examination provides a reasonable basis for our opinion.

The relative effectiveness and significance of specific controls at Symantec and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.

Because of the nature and inherent limitations of controls, Symantec's ability to meet the aforementioned criteria may be affected. For example, controls may not prevent, or detect and correct, error, fraud, unauthorized access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection of any conclusions based on our findings to future periods is subject to the risk that changes may alter the validity of such conclusions.

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1. exp
(3)
A Boolean circuit C with n inputs and m outputs is a directed acyclic
graph, where the inputs and the gates are the nodes, and the edges correspond
to the Boolean-valued wires. The fanin and fanout of a node is the number
of wires going in and out of the node, respectively. The nodes with fanin
zero are called the input nodes and are labeled with an input variable from
fx1;
: : : ;
xn
g. The circuits considered in this study only contain gates from the
complete basis (AND, XOR, NOT) and have exactly one node with fanout zero
(i.e., m = 1), which is called the output node. For our purposes, we assume
AND gates have fan-in two, but XOR gates have arbitrary fan-in > 0.
Boolean functions can be partitioned into those f for which f(0) = 0 and
...