MINIMAL AWARDS

2 MARCH 1977

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM:	EXTENSION	NO.
EXECUTIVE SECRETARY SUGGESTION AND ACHIEVEMENT AWARDS COMMITTEE 1001 AMES BUILDING	2086	DATE 1 March 1977

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. DC/BSD 5E 56 Hqs.	2 Mar 77			1 to 5: For your information.
2. ~~C/BSD~~ 5E 56 Hqs.				
3. ~~DD/Pers/SP~~ 5E 56 Hqs				6: Attached are 14 Minimal Awards for your approval.
4. Exec Asst/OP 5E 58 Hqs.	2 MAR 1977			
5. DD/Pers 5E 58 Hqs.		2 MAR		
6. Chairman, SAAC 5E 58 Hqs.	2 MAR 1977			
7.				
8.				
9. EXECUTIVE SECRETARY SUGGESTION AND ACHIEVEMENT AWARDS COMMITTEE 10. 1001 AMES BUILDING		3/3/77		
11.				
12.				
13.				
14.				
15.				

[redacted] 25X1A

Next 1 Page(s) In Document Exempt

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-122: dated 8 October 1975
[redacted], GS-05 25X1A
Federal Protective Officer
Directorate of Science and
Technology/NPIC

A. Summary of Suggestion

1. Background

The [redacted] loading dock FPO is located 25X1A
in a booth. He checks employee badges and raises the loading dock door to let vehicles into the area to load and unload. The FPO cannot leave the booth to direct drivers. When the loading dock area is full, there is no way for drivers waiting outside to know this. Also, there could be damage to the door if the vehicles leaving the area depart before the door is completely up.

2. Suggestion

a. Install a closed circuit TV system in the guard booth enabling the officer to see the trucks waiting to come into the loading dock and those waiting to depart.

b. Install traffic lights inside and outside of the loading docks to control the flow of traffic.

B. Evaluation

1. The suggestion was declined in February 1976 because NPIC Security Branch and Logistics Branch believed conditions at the [redacted] loading dock 25X1A
were not hazardous enough to warrant the expense of installing a TV and traffic control light. Since that time, there have been two reported cases where trucks have hit the steel roll-down doors. These incidents have resulted in over $1,000 in damages and have caused malfunction of the doors for several days.

2. In April 1976, the NPIC Safety Officer informed the NPIC Panel that the Headquarters Safety Officer endorsed installation of red and green lights outside and inside the NPIC loading dock doors. GSA has installed the lights.

3. NPIC recommended a $75 award based on MODERATE/EXTENDED intangible benefits. The [redacted] 25X1A
25X1A [redacted] loading dock area is heavily traveled daily by vehicles from many different agencies. This improvement should help prevent further accidents.

C. Recommendation of Executive Secretary

1. Not line of duty.

2. $75 award (MODERATE/EXTENDED).

D. Decision of the Chairman

25X1A [redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

75. -
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-203: dated 26 November 1975
[redacted] GS-06 25X1A
Microphotographer
Directorate of Operations/[redacted] 25X1A

A. Summary of Suggestion

1. Background

When "camera faults" occur on the COM, there is only one way to correct the condition: open the camera doors, pull the film out of the magazine, destroy the completed work and start the job over.

2. Suggestion

25X1A Install opaque curtains in the windows of the [redacted]COM clean room to create a photographic darkroom.

B. Evaluation

1. As a result of this suggestion, C[redacted] 25X1A kept a record of camera faults over the past year. A total of five camera faults resulted, amounting to around $3 worth of film being destroyed. Since the area involved is a clean room, it would have been necessary to install lint-free curtains, costing several hundred dollars.

25X1A 2. C/[redacted] concluded that the minimal loss of film annually did not justify installing curtains that would have cost several hundred dollars. However, he believes that a Certificate of Appreciation is justified because the suggestion caused the test or record of faults occuring in the camera for the past year and gave conclusive proof that the expense of lint-free curtains was not justified.

C. Recommendation of Executive Secretary

1. Not line of duty.

2. Certificate of Appreciation.

D. Decision of the Chairman

25X1A [redacted]

Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

C.A.
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-335: dated 12 March 1976
[redacted], GS-05 25X1A
Clerk-Typist
Directorate of Administration/OC

A. Summary of Suggestion

1. Background

Printing and Photography Division does not perform a "frame-by-frame" check of microfilmed material. This is the responsibility of the customer.

2. Suggestion

P&PD inform customers that they only perform a scan check of microfilm and not a frame-by-frame check.

B. Evaluation

1. As a result of this suggestion, OL/P&PD now attaches a note to each completed microfilm job informing the customer that a "frame-by-frame" check has not been made of the material. Production requirements and current manpower do not permit a "frame-by-frame" check. P&PD has not been informed by any customers that originals were destroyed and then it was discovered that all of the information was not captured on the microfilm.

2. Chief, ISAS said that the responsiblity for assuring completeness of microfilm has always been that of the user and the user's Records Management Officer. The Micrographics Program Branch states in its seminars that P&PD does not make a "frame-by-frame" check of microfilm. In addition, when MPB

analysts work with Agency officials on new applications, this fact is brought to their attention.

C. Recommendation of Executive Secretary

1. Not line of duty.

2. Certificate of Appreciation.

D. Decision of the Chairman

25X1A

[redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

C.A.
Award

SECRET

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-355: dated 18 March 1976
[redacted], GS-10
Intel. Analyst Gen.
Directorate of Science and
Technology/NPIC

25X1A

A. Summary of Suggestion

The suggester devised an "easy to use" instruction manual for about 10 basic NPIC computer programs (copy attached). Formerly, a detailed Automated Information Division (AID)-produced technical user's manual, classified TOP SECRET, was used.

B. Evaluation

1. NPIC said that the suggester, on her own initiative, made up 50 to 60 copies of the manual for trial usage beginning in March 1976. Now between 150 and 200 PI's throughout NPIC use the guide. It is limited to "in-house" use by NPIC, IAS and USAIIC photo interpreters who only have access to all NPIC computer programs. When IAS was asked if they wished to use the manual, it was learned that they have their own version of the ADP users manual. IAS also gives their PI's a course on the subject. USAIIC is currently sending their PI's to the IAS course and is using IAS' booklet.

2. As a result of wide use of the suggester's manual throughout NPIC/Imagery Exploitation Group only, NPIC recommended a $100 award for SUBSTANTIAL/LIMITED intangible benefits. Everyone in IEG who uses the suggested manual attests that it aids them in using the NPIC automated files. The users manuals are difficult to understand for those who lack a good background in the NPIC automated files or terminal devices. However,

the suggester's "easy to use" manual takes care of this problem. No previous training is needed to use the suggester's manual.

C. Recommendation of Executive Secretary

25X1A

1. Not line of duty. AID is responsible for devising such manuals. [redacted] made the manual more meaningful for daily usage.

2. $100 award (SUBSTANTIAL/LIMITED).

D. Decision of the Chairman

25X1A

[redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Aug 77
Date

100.-
Award

Att

INSTRUCTIONS FOR BASIC COMPUTER PROGRAMS

FOR USE BY PI's

March 1976

TABLE OF CONTENTS

For further information on all programs in this booklet, or information on other programs available, consult the referenced manuals or see your CRA. Your CRA has copies of the manuals.

INSTALLATIONS DATA FILE (IDF)

The Installations Data File (IDF) contains information on all NPIC targets. Each is identified by a machine reference number (MRN). This number is assigned to each record by the computer and will never be changed or assigned to another record. With the exception of MRN 1, the format -- not the contents -- of each record in the IDF is identical. Mission highlights for first- and second-phase reports are recorded in MRN 1; no other information is stored in this record.

In querying the IDF, any of the following sectors may be used:

IHEAD - Contains data that identifies a target, e.g., name of installation, country code, coordinates, NPIC number, B.E., MRN, COMIREX number, etc.

ILOCA - Contains data on the location of a target; imagery-derived coordinates, UTM grid coordinates, elevation, and references.

ISTAT - Data on the status of a target: complete, operational, abandoned, etc.

IDESC - Complete description of target status, activity, and changes.

IOBJE - Data on order of battle and associated objects; type, name, number, description.

IREAD - COMIREX requirement for target readout.

IPHOT - Photo references: mission, pass, frame and index, X-Y's.

IHIGH - Mission highlights; in MRN 1 only.

REFERENCE: Installations Data File, Fourth Edition, TCS-10018/73, July 1973.

BASIC INSTRUCTIONS FOR PIRL

Before starting the program, turn Len 131 on so that you will receive a receipt and "MCQ" number which will give you some idea of how long you will have to wait.

To begin all PIRL queries

Type	PIRL,420	(Return/Line Feed)
"	E53,Your name	"

Press XMIT PAGE

When cursor drops to bottom of screen,

Press CTRL & B (simultaneously)

B should not print on screen. If it does, depress CTRL and while holding it down, press B.

You will receive a message telling you that you are in PIRL mode.

Press ERASE PAGE

Then, type your query.

Press XMIT PAGE

To see next page, press CTRL & Q.

To print one page, press CTRL & S. To print entire report, press CTRL & G. This will print everything in the sector you are looking at, or in the case of IDFAL, all information on that particular target.

To stay in PIRL mode and return to original query, press CTRL & W, wait for display on screen telling you that you are in PIRL mode, then press CTRL & R. Move cursor under letters or numbers you wish to change, and type new entries. Press XMIT PAGE and follow above directions.

To terminate program, press CTRL & Y. Then press ERASE PAGE.

For HELP, press CTRL & Z!

NOTE: Code cards are in drawer under CRT.

REFERENCE: The PIRL Query Language, Querying NPIC Files from a CRT, 3rd Edition, TCS-9652/73, August 1973

SIMPLIFIED PIRL	To get information from one or all sectors by using MRN

Type	PIRL,420	Return/Line Feed
"	E53,Your name	"
Press	XMIT PAGE	

When cursor drops to bottom of screen,

Press	CTRL & B (simultaneously)
Press	ERASE PAGE
Type Query:	12345,IDESC.
Press	XMIT PAGE

Follow Basic Instructions for PIRL.

For a list of sector mnemonics, see page on Installations Data File.

To see everything in the IDF on a specific MRN, use IDFAL.

PIRL — For a list of targets within a fixed radius of a set of known coordinates

---

Type — PIRL,420 (Return/Line Feed)
" — E53,Your name

Press — XMIT PAGE

When cursor drops to bottom of screen,

Press — CTRL & B (simultaneously)

Press — ERASE PAGE

Type Query — GET,IDF,IGEO$ 10/34 03 59 N/104 40 52 E. (Line Space Only)
D,IHEAD.

Press — XMIT PAGE

This is a 10 nm radius. 01 to 999 nm radius may be used.

Follow Basic Instructions for PIRL.

NOTE: This program will tell you how many MRNs answer your query. To see the list of targets, press CTRL & X (continue). CRT will display 20 targets (4 pages) at a time. If there are more than 20 targets in your list, you must press CTRL & X to see the rest, until all targets you want to see have been displayed.

A similar GET query can be used to get information by using any of the following mnemonics, e.g. GET,IDF,IBE$$ 0233-02283. Check manual for correct spacing required.

IBE$$ - BE number
ICOMI - COMIREX number
INPIC - NPIC number
MRN - Machine Reference Number
IMILI - Military District
ICAT$ - IDHS Category
ICOUN - Country Code
IGEO$ - Geographic coords
ICOMP - IEG Component

PIRL To get number of installations meeting specific requirements.

(For example, the following query will tell you how many [redacted] in the IDHS category 40100, and are located [redacted] d are assigned to Component 522.)

25X6

Type	PIRL,420	(Return/Line Feed)
"	E53,Your name	
Press	XMIT PAGE	

When cursor drops to bottom of screen,

Press	CTRL & B	(simultaneously)
"	ERASE PAGE	
Type Query	INTER,IDF,ICAT$ 40100;	(Line Feed Only)
	ICOUN CH;	"
	ICOMP 522.	"
Press	XMIT PAGE	

Answer will give you the number of records meeting your requirements.
To see the headers,

Press	ERASE PAGE	
Type	GET,IDF,MRNLIST.	(Line Space Only)
	D,IHEAD.	
Press	XMIT PAGE	

CRT will redisplay number of records and offer you two options.
To continue,

Press CTRL & X (simultaneously)

Follow Basic Instructions for PIRL.

BQLT — To get a 1-line header listing of all targets in ALPHA order.

Type	BQLT,420	(Return/Line Feed)
"	E53,Your name	"
Press	ALT MODE CTRL & Q	(Blank key on left) (simultaneously)
Type	FOR FILE IDF;	(R/LF)
"	REPORT HD107 ON 011;	"
"	SORT IHEAD/NAME;	"
"	SPACE 3;	"
"	WHEN IHEAD,COMP EQ 521.	"
Press	ALT MODE CTRL & D	(simultaneously)
"	XMIT PAGE	

For a listing of all targets assigned to NEB, use "WHEN IHEAD,COMP EQ 521/523."

The above query can also be used to get lists of targets assigned to a particular NPIC category or IDHS category. The last line would be changed to:

WHEN IHEAD,CAT$ EQ 40100. for IDHS category, or

WHEN IHEAD,CAT$ EQ 40100/40900. for a range in IDHS category, or

WHEN IHEAD,NCAT EQ EA1. for NPIC category, or

WHEN IHEAD,NCAT EQ EA1/EA4. for a range in NPIC Category.

For various ways in which your lists can be sorted, see the List of SORT Statements.

REFERENCE: User's Manual for the Batch Query Language, BQL and BQLT, TCS-10024/72, June 1972

BQLT To get a blank Presentation Sheet (BLIP) on a target

Type	BQLT,420	(Return/Line Feed)
"	E53,Your name	"
Press	ALT MODE	(Blank key on left)
	CTRL & Q	
Type Query	FOR FILE IDF; REPORT WPEGD ON 011; WHEN IHEAD,MRN$ EQ 4905.	
Press	ALT MODE	
"	CTRL & D	(simultaneously)
"	XMIT PAGE	

For information from any sector, substitute the sector desired.

For all information on a specific target, use "REPORT INSTL ON 011;"

REFERENCE: User's Manual for the Batch Query Language, BQL and BQLT, TCS-10024/72, June 1972

BQLT SORT STATEMENTS

Following is a list of SORT statements which can be used with BQLT.

	Alphabetical	SORT IHEAD/NAME;
25X1A	WAC/PIC	SORT IHEAD/NPIC;
	[redacted]	SORT IHEAD/BNUM;
	Coordinate	SORT IHEAD/COORD;
	NPIC Category	SORT IHEAD/NCAT;
	IDHS Category	SORT IHEAD/CAT$;
	Country	SORT IHEAD/COUN;

When any of the following specific sorts are required, use the following REPORT line. Omit SORT statement as above, except HD107 (see below).

example: REPORT HD112 ON 011;

HD107 - When used in combination with a SORT statement listed above, you will get a 1-line header listing sorted as you requested

When used without SORT statement listed above, you will get a 1-line header list in coordinate order.

HD112 - Headers sorted by component in WAC/PIC order, with page separation between components.

HD113 - Headers sorted by country in WAC/PIC order with page separation between countries.

HD119 - Headers sorted by NPIC category and alphabetized with page separation between category.

RFTLISTER	For a printout of the same sector for each of several MRN's. (Answers are not displayed on CRT--must be printed.)

Type	RFTLISTER,131	(or 011)	(Line Feed/Return)
"	E53,Your name		"
Press	ALT MODE CTRL & Q	(Blank key on left)	
Type	IDESC,I,MRNL,3242,18239,19313,55455,		(LF/R)
Press	ALT MODE CTRL & D	(simultaneously)	
"	XMIT PAGE		

For list of sector mnemonics, see page on the Installations Data File.

AUTOCORD By using X-Y Grid point on [redacted] photography, program will give you geographical coordinates. 25X1D

Type *	AUTOCORD,420	(Return/Line Feed)
"	E53,Your name	"
Press	ALT MODE	(Blank key on left)
	CTRL & Q (simultaneously)	
Type Query:	1206-1,0031,012F,18.45,10.6,3	(R/LF)
	4338-1,0043,128,16.53,9.5	"
Press	ALT MODE	
	CTRL & D (simultaneously)	
"	XMIT PAGE	

*This will print on Len 131. Substitute 011 for printout on highspeed printer.

MULTIPLE QUERIES:

If you have several pairs of X-Y's from the same mission, you can transmit them together, as long as some or all of the photo references in one line apply to the X-Y's in the next line or lines.

```
1206-1,0031,012F,18.45,10.5,3
15.2,6.3,1
0022,010A,16.5,8.4,4
1207-1,0063,009F,21.5,8.2,2
4338-1,0056,012,10.5,19.23
043,16.53,9.5
18.2,3.62
```

If you find it more convenient, you may type the entire line in any sequence without re-starting the program. 25X1D

[redacted]

REFERENCE: User's Guide, The AUTOCORD/FILMCORD Computer Program TCS-10018/74, August 1974

FILMCORD By using geo-coordinates of any point on [redacted] imagery, program will give you X-Y coordinates. 25X1D

Type*	FILMCORD,420	(Return/Line Feed)	*This will print on Len 131. Substitute 011 for printout on highspeed printer.
"	E53,Your name	"	
Press	ALT MODE CTRL & Q (simultaneously)	(Blank key on left)	
Type Query:	1207-1,0027,012F,32-45-47N,85-04-57W,SAM SITE	(R/LF)	
	4338-1,0056,012,55-24-53N,85-58-34E,OB	"	
Press	ALT MODE CTRL & D (simultaneously)		
"	XMIT PAGE		

MULTIPLE QUERIES:

If you have several pairs of geocoordinates from the same mission, you can transmit them together, as long as some or all of the photo refs in one line apply to the geocoordinates in the next line or lines.

```
1207-1,0027,012F,32-36-51N,84-06-46W,SAM SITE
32-45-47N,85-04-57W,SAM SITE
0044,023A,21-51-54N,78-52-49E,TENTS
4338-1-0056,012,55-24-32N,85-58-34E,OB
043,40-21-34N,71-44-38E,OB
```

If you find it more convenient, you may type entire line in any sequence without restarting the program.

FORMAT FOR QUERY:

1. [redacted]
2. [redacted] - 4 spaces, right justified, use leading zeros.
3. [redacted] spaces, right justified, use leading zeros.
   spaces, incl camera indicator (F or A), right justified, use leading zeros.
4. Latitude/Longitude - you may omit leading zeros.
5. Identification - name or other identification of target.

25X1D

REFERENCE: User's Guide, The AUTOCORD/FILMCORD Computer Program TCS-10018/74, August 1974

HISTORICAL AREA COVERAGE QUERY (HACQ)

The HACQ Program lists [redacted] photo coverage of the locations of your choice. For each location you can get a list of its coverage 25X1D

* from the seven most recent [redacted] 25X1D
* or, from the most recent [redacted] 25X1D
* or, from just one [redacted] 25X1D

NOTES:

Latitude cannot be greater than 88°. (See HACQ Manual)
Minutes & seconds, or seconds only, may be omitted.
Leading zeros are not required.
During each run you may request coverage of one location or of several locations, but no more than 20.
Use one line for each location.
During each run you may transmit only one kind of request.
Name is required - use any name you wish; first character must be alphabetic. Name cannot exceed 30 characters.
Radius optional. Ø-99.9 NM inclusive.

TO SEARCH THE SEVEN MOST RECENT [redacted] 25X1D

Type	HACQ,011	(Return/Line Feed)	Printout must be sent to Len 011
"	E53,Your name	"	
Press	ALT MODE CTRL & Q (simultaneously)	(Blank key on left)	
Type Query:	23 20 15 N,119 20 10 E,10.0,Name of Installation (R/LF)		
"	(Additional data lines as above, if needed.)		
Press	ALT MODE CTRL & D (simultaneously)		
"	XMIT PAGE		

HACQ (Cont.)

TO SEARCH THE MOST RECENT [redacted] 25X1D

Type	HACQ,011	(R/LF)
"	E53,Your name	"
Press	ALT MODE CTRL & Q (simultaneously)	

Type Query: [redacted],44 38 N,77 59 E,Name of installation (R/LF) 25X1D

Press ALT MODE
CTRL & D (simultaneously)

NOTE: You can also specify a radius--this is optional.

" XMIT PAGE

TO SEARCH ONE [redacted] 25X1D

Type	HACQ,011	(R/LF)
"	E53,Your name	"
Press	ALT MODE CTRL & Q (simultaneously)	

Type Query: [redacted],44 38 5 N,77 59 33 E,10.0,Name of installation (R/LF) 25X1D
69 23 06 N,086 10 07 E,10,Name of installation "

Press ALT MODE
CTRL & D (simultaneously)

" XMIT PAGE

NOTE: Specify the name of the file ([redacted]...) only once--when you identify the first location. 25X1D

REFERENCE: User's Manual, The HACQ Computer Program Using Historical Area Coverage Files, TCS-10000/74, January 1974 (1st Edition)

INDRAZIM	To find the distance and azimuth between two geographical points.	

Type	INDRAZIM,131	(or 011) (Return/Line Feed)
"	E53,Your name	"
Press	ALT MODE	(Blank key on left)
	CTRL & Q	(simultaneously)
Type	MCD	Ellipsoid MCD must be included in all queries.
	70,55,11 N	
	053,50,21 E	
	70,57,33 N	(Return/Line Feed after each line)
	053,45,42 E	
Press	ALT MODE	
	CTRL & D	(simultaneously)

The SEARCH Program

The SEARCH program displays and prints information based on a search term which is a word, phrase, acronym, number, letter, or some other symbol of your choice. The program searches the IDF until it finds all records that contain your input. It then displays that part of each record in which your search term is found on the CRT screen.

For instructions on how to use the SEARCH program, consult the reference.

REFERENCE: User's Guide, SEARCH: A Computer Program for Querying the Installations Data File and Exploitation Products File, First Edition, May 1974, NPIC/R-15/74

EXPLOITATION PRODUCTS FILE (EPF)

The Exploitation Products File (EPF) is an index to reports based on photo interpretation. Indexed reports include all those published and received by NPIC. Informal memoranda issued by components in [redacted] in answer to photo interpretation requirements are also indexed in the file. If an abstract of a report is available, it is placed in the file. Documents indexed on the file are no more than seven years old.

25X1A

In querying the EPF, any of the following sectors may be used:

EHEAD - Header, with report number, issuing agency and publication date.

EABST - Abstract of document

ESVAR - Contains name of one or more installations, objects or subjects mentioned in one report, or may identify general subject matter in report.

EPFAL - entire record on document.

REFERENCE: The Exploitation Products File, 1st Edition, NPIC/R-11/73, April 1973.

The PIRL Query Language, Querying NPIC Files from a CRT, 3rd Edition, TCS-9652/73, August 1973.

PIRL to query EPF	For a list of documents that are available in the NPIC Library on a particular target

---

Type	PIRL,420	(Return/Line Feed)
"	E53,Your name	"

Press XMIT PAGE

When cursor drops to bottom of screen,

Press CTRL & B (simultaneously)

You will receive a message telling you that you are in PIRL mode.

Press ERASE PAGE

Type Query GET,EPF,EWAC$ 0162,ESVAR,SVAR,BWAC 0162,BNUM -00130. (Line Feed Only)
DISPLAY,EABST.

Press XMIT PAGE

CRT will select a number of records, and offer you two options. To see the specific record you have requested, press "Continue" (CTRL & X simultaneously). It will then display one entry at a time. To see each entry, press CTRL & X for each one.

NOTE: CTRL & X will show you the 1st page of each entry. If there are more pages, press CTRL & Q simultaneously to see successive pages of each record.

The above query is for retrieval by using the B.E. number. To use the MRN, use the following query: (Sector requested may be changed.)

GET,EPF,EWAC$ 0154,ESVAR,SVAR,IMRN 002641. (Line Feed Only)
DISPLAY,EPFAL.

For a list of sector mnemonics, see page on Exploitation Products File.

STAR — To get information from one or all sectors by using MRN, BE number, COMIREX number or NPIC number.

Type STAR,420 (Return/Line Space)
" E53,Your name

Press XMIT PAGE

When cursor drops to bottom of screen,

Press CTRL & B (simultaneously)

B should not print on screen. If it does, depress CTRL and while holding it down, press B.

You will receive a list of options. Choose one and press CTRL & appropriate letter (listed below). FOLLOW INSTRUCTIONS GIVEN ON CRT AND USE STAR 3x5 GUIDE CARD.

For Key 170,	press	CTRL & D	(simultaneously)	to see display on screen.
" " 171,	"	CTRL & F	"	to print but not see.
" " 167,	"	CTRL & S	"	to return to orig. display options.
" " 160,	"	CTRL & Q	"	to terminate program.

After pressing CTRL & D (Display option), if you do not have an MRN but do have either a BE number, COMIREX number, or NPIC number, press CTRL & Z (simultaneously) and follow instructions given.

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-494: dated 22 June 1976

[redacted], GS-09 STATINTL
Intelligence Research Specialist
Directorate of Science and
Technology/NPIC

A. Summary of Suggestion

1. Background

Addition of the 2.65X rhomboid lens to the zoom 240 optics of the MLT-1540 light table decreased the usual clearance between the rhomboid lens and the table top to less than 1/8". The rhomboid lens could be damaged by protruding heads of metal screws to the rear of the glass viewing surfaces.

2. Suggestion

a. June 1976: Replace the protruding screws with standard flush countersunk-head metal screws. NPIC declined this suggestion because the suggester offered no sample screws for replacement.

b. September 1976: Remove the metal screws and cover the holes with plastic tape dots (sample attached). The screws serve no purpose but were put on the scopes for symmetry.

B. Evaluation

1. NPIC/TSG/Equipment Services Branch found this alternative acceptable and will implement it during the normal preventive maintenance cycle for NPIC and DIA light tables. There are over 300-1540 light tables. Possible damage to optics by protrusions on light tables should have been considered when designing the tables. NPIC technicians recognized this oversight when they were designing the new 2030 light tables in June 1975 and they have been searching for an inexpensive solution to the problem.

2. NPIC recommended a $50 award based on MODERATE/ EXTENDED intangible benefits. Although there have been no known cases of any optics being damaged by the screw heads on the 1540's, this suggestion should be a deterrent for future possible problems.

C. Recommendation of the Executive Secretary

1. Not line of duty.

2. $75 award (MODERATE/EXTENDED). (This change will be made on approximately 330 MLT-1540 light tables

STATINTL [redacted]

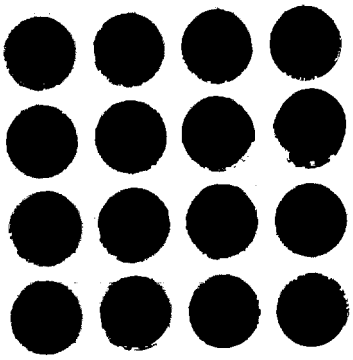
D. Decision of the Chairman

STATINTL [redacted]
Chairman, Suggestion and
Achievement Awards Committee

7 Mar 77
Date

75. -
Award

Att



Approved For Release 2000/08/07 : CIA-RDP80-00706A000100120001-2

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 76-502: dated 24 June 1976

[redacted], GS-10 25X1A
Photo Technologist
Directorate of Science and
Technology/NPIC

A. Summary of Suggestion

1. Background

Formerly, copies of NPIC computer program listings were made by sending the listing to the terminal and a photo copy was made of the terminal screen.

2. Suggestion

Make copies of computer program listings by sending the listings to a magnetic tape and then dump the magnetic tape onto a line printer. The line printer paper printout is cheaper than making photographic copies of the terminal screen.

B. Evaluation

1. NPIC/TSG/Applied-Photo Science Division adopted the suggestion in February 1975. ASPD said that there is no appreciable extra work/time involved in the new process. The tape is taken down to the computer after 50 to 100 items build up.

2. The former method of using photosensitive paper cost $50 a month; the new method of line printer paper costs $2 per month or an annual savings of $552 ($600 - $48 = $552).

C. Recommendation of Executive Secretary

25X1A

1. Not line of duty. Mr. [redacted] is a working level photo technologist and is not responsible for changing this procedure.

2. $55 award based on annual savings of $552.

D. Decision of the Chairman

25X1A

[redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

55.-
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 77-78: dated 30 August 1976 STATINTL
[redacted], GS-07
Secretary-Steno
Directorate of Administration/OC

A. Summary of Suggestion

1. Background

The internal telephone directory for the Office of Communications was produced by individual components. Each senior secretary or her alternate updated the directory whenever necessary. This was in addition to keeping the Emergency Locators on each individual up to date.

2. Suggestion

Produce the OC telephone directory using the OC automated personnel data base and the Agency-wide data base containing current location and telephone numbers of all Agency personnel.

B. Evaluations

1. OC concluded that this suggestion, as proposed, could not be implemented. The present OC internal telephone directory is functional in nature and component titles do not always match those in the Office of Personnel data base. Also, personnel assigned to the Development Complement or loaned to other OC components would not be accurately shown since their position number would not be associated with their actual component. Another factor is the additional cost of printing an entire directory each time there are changes in only one component, branch, etc.

2. However, during the study of this suggestion OC learned from ODP that an alphabetical listing of personnel with room numbers, mailing address and telephone numbers is available. Many OC personnel are under cover and are not included in the Agency Telephone Directory. The ability for office components to contact employees is facilitated by this alphabetic listing, especially in situations where the employee's component is not known. OC rated intangible benefits MODERATE/ LIMITED.

3. OP/Automated Data Resources Staff commented that the capability of producing Office or DDO Division level telephone directories is part of the original design of CEMLOC. Such a directory could be very costly if all offices in the Agency were to request it.

C. Recommendation of Executive Secretary

1. Not line of duty.

2. $50 award (MODERATE/LIMITED).

D. Decision of the Chairman

STATINTL [redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

50.-
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 77-101: dated 17 September 1976
[redacted]., GS-09 25X1A
Electronic Technician
Directorate of Administration/OC

A. Summary of Suggestion

The suggester proposed a modification to prolong the life of the oscillator/driver P.C. board assembly and eliminate a major cause of failure in the RF-716A transmitter (detailed description attached).

B. Evaluation

1. OC issued Modification Work Order 288-1 dated February 1977, copy attached, to implement the suggestion. The modification will reduce return for repair maintenance because it will prolong the life of the oscillator/driver P.C. board assembly, a major cause of failure in the RF-716A transmitter.

2. OC estimated annual savings at $1,242 (detailed breakdown attached).

C. Recommendation of Executive Secretary

1. Not line of duty.

2. $115 award based on estimated annual savings of $1,242.

D. Decision of the Chairman

25X1A [redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

115.-
Award

Atts

DISPATCH

CLASSIFICATION
CONFIDENTIAL

ORIGINATOR'S REQUEST FOR HQS. PROCESSING
INDEXING REQUESTED
NO INDEXING
APERTURE CARD REQUESTED

ACTION | INFO

TO
Director of Communications

INFO.

FROM
Chief, [redacted]

SUBJECT
Employee Suggestion-RF-716A Transmitter Modification

ACTION REQUIRED - REFERENCES

1. A suggestion for a modification that will prolong the life of the oscillator/driver P.C. board assembly and eliminate a major cause of failure in the RF-716A transmitter has been submitted by [redacted]. We are pleased to forward this suggestion to Headquarters for evaluation.

2. The suggestion is as follows:

A. A number of RF-716A transmitters returning from the field had broken solder joints and lifted pads where V1 and V2 tube sockets are solder mounted on the oscillator/driver P.C. board assembly. This is caused by pressure exerted on the tube socket while installing new tubes during field preventative maintenance or repair. This pressure is absorbed totally by the solder joint and pad, which causes the breakage described.

B. This modification consists of removing the tube sockets for V1 and V2 from the oscillator/driver P.C. board assembly. Screw secured tube sockets are mounted to the "L" shaped bracket on the bottom of the chassis. Wires are then run from the new tube sockets to their original connection points on the P.C. board assembly. With wire lengths under four inches, there is little or no effect on the circuit's performance. This modification was installed and thoroughly checked out in less than three hours.

C. Since this modification can be performed at Area Headquarters on a time available basis using supplies from Area stock, the cost of implementing the modification will be minimal.

3. The procedure for implementing the modification is outlined below:

A. Remove tube sockets V1 and V2 from the oscillator/driver P.C. board.

B. Remove "L" shaped bracket shown in figure 1. After

CONTINUED...

CROSS REFERENCE TO

DISPATCH SYMBOL AND NUMBER
[redacted]

DATE
2 September 1976

HQS FILE NUMBER

E2 IMPDET

CLASSIFICATION
CONFIDENTIAL

drilling holes shown in figure 3, reinstall bracket forward of original location using screws shown in figure 2.

C. Mount tube sockets and grommet on "L" bracket.

D. Unsolder wire (RF pickup loop) at TB 8-1 (going to R49) re-route wire through grommet on "L" bracket and solder back to TB 8-1.

E. Jumper pins 3, 4, 5, 9 (pin 9 to ground). Cut and solder wires from pins 1, 2, 6, 7, 8, 9 to original solder joints on P.C. board.

F. Replace original tube shields with shields 1 15/16" in height.

4. A list of the materials required and appropriate diagrams/photos are attached.

5. With the conductor pattern breakage described in Paragraph 2A, field repair is not suggested. Even at the Area Headquarters level, the repair of conductor patterns is difficult because the proper materials are not available. The use of epoxy and wire to replace a pattern is unprofessional and unreliable over an extended period of time, thus the only alternative is board replacement which costs approximately $225.00 plus shipment. The new replacement would still be susceptible to breakage as has been described. The suggested modification would eliminate any recurrence of failure due to conductor pattern breakage. Furthermore, the minimal cost of the modification (approximately $20.00) would result in a conservative estimate of $300.00 savings per unit over the life of the transmitter. In view of this, Chief, [redacted] 25X1A strongly endorses this suggestion and recommends adoption of the modification.

Attachments:

MATERIALS REQUIRED

2 each	Tube socket 9-pin w/tube shield ; Stock No. 5935-160-1365
72 inches	No. 22 stranded wire
12 inches	Shrink tubing
4 each	4/40 X 1/4 inch screws with nuts/flats/locks
2 each	Tube shields, 9-pin, 1 15/16 inch high
1 each	Grommet; Mfrs type 2172 3/16 inch
1 each	No. 33 drill bit
1 each	5/16 inch drill bit
1 each	1/2 inch conduit knockout punch

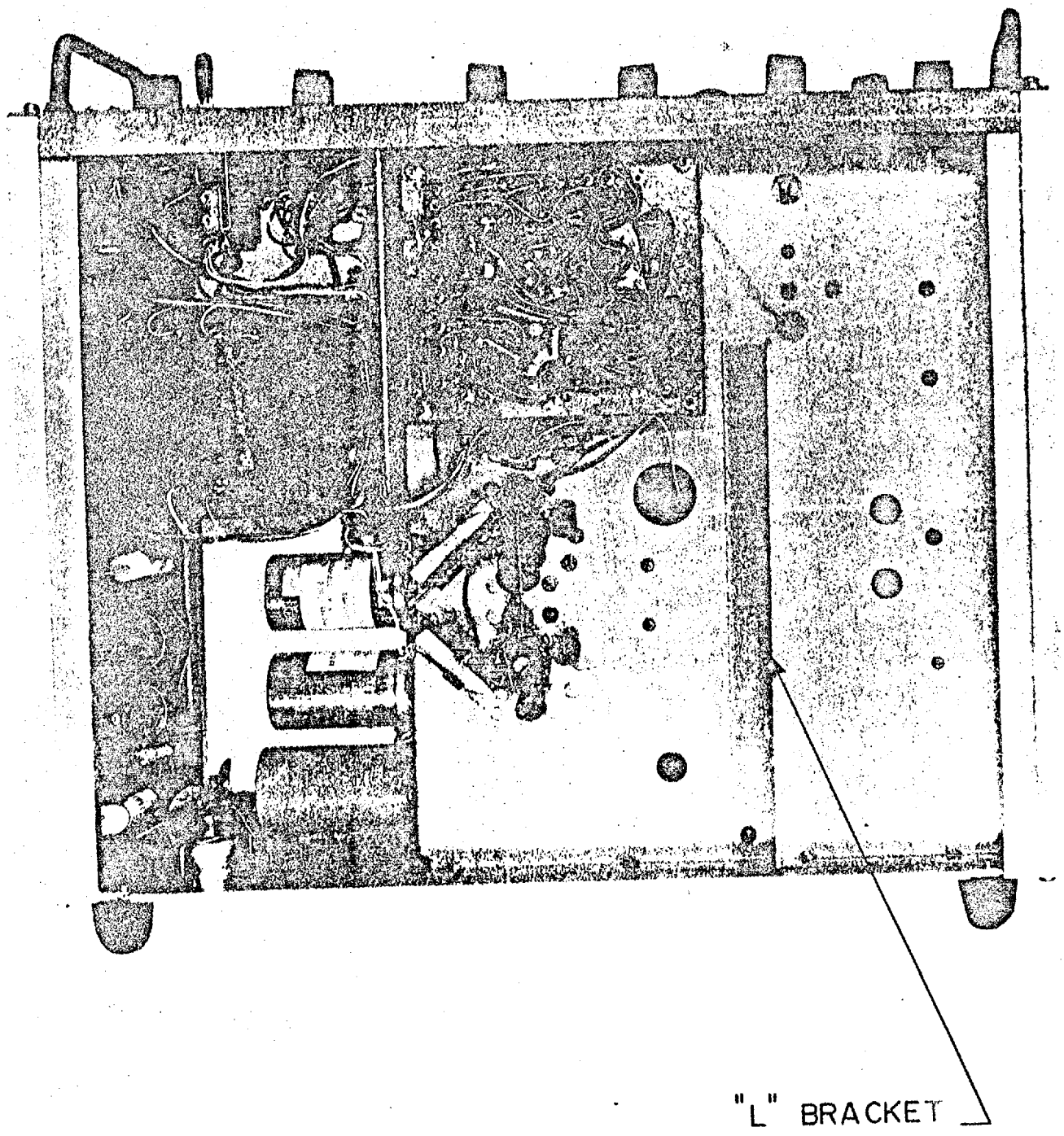


FIGURE 1

SHIFT L BRACKET FORWARD [illegible]

THREE PHILLIPS HEAD SCREWS SHOWN

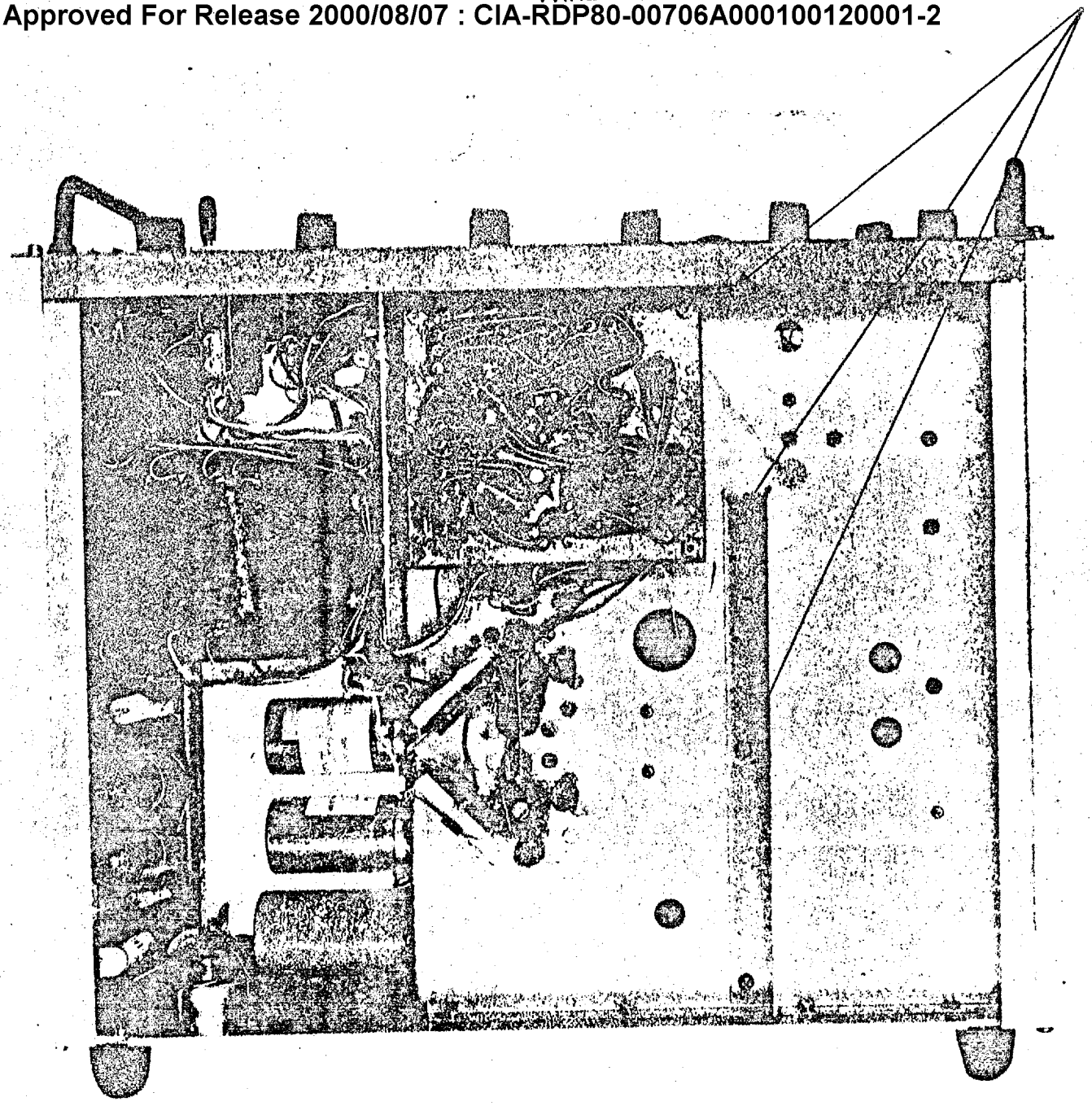
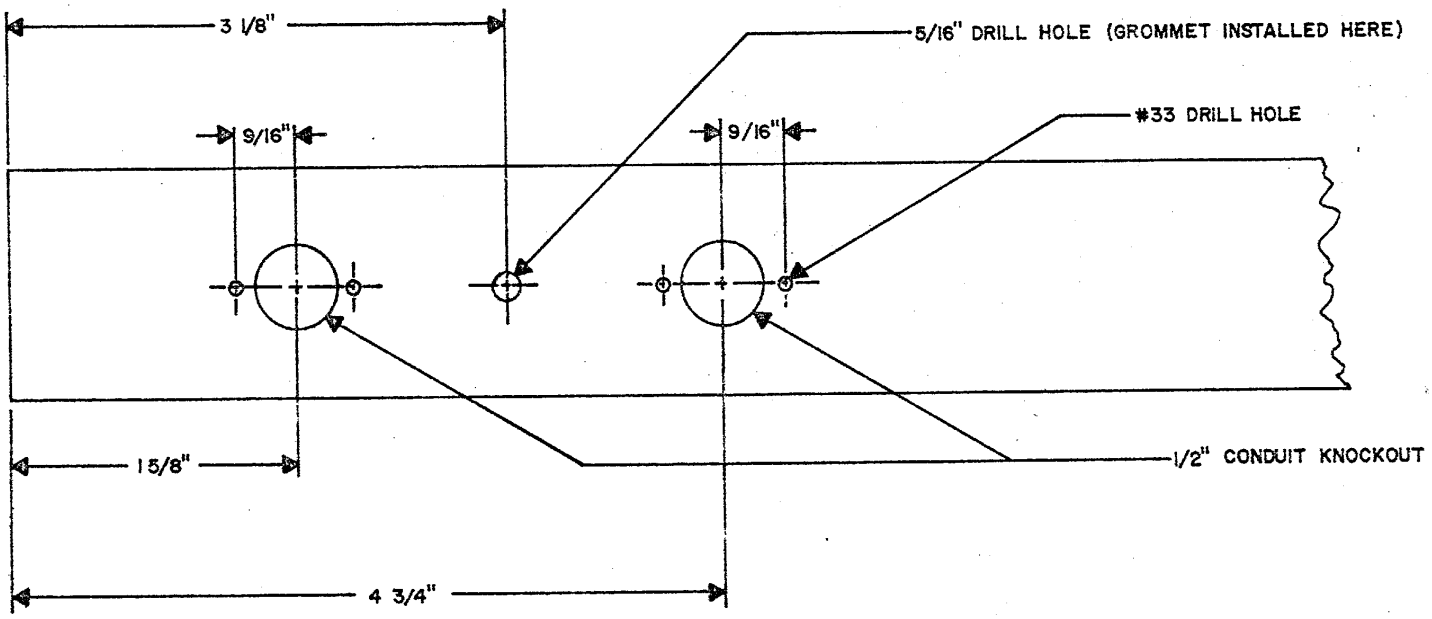


FIGURE 2



TITLE:	
DESIGNED BY: SL	SCALE: NONE
DRAWN BY: GEM	DATE: JUNE 7, 1976
CHECKED BY:	DWG. NO.:
APPROVED BY:	FIGURE 3

MWO 208-1

OPTIONAL

MODIFICATION WORK ORDER

FOR

RF-716A TRANSMITTER

FEBRUARY 1977

TABLE OF CONTENTS

SECTION 1. GENERAL

1.1 Equipment Affected

This modification will affect all RF-716A transmitters.

1.2 Class of Modification

This MWO is OPTIONAL.

1.3 References

1.3.1 Instruction Manual for RF-716A, 100 Watt CW Transmitter.

1.3.2 No other MWO's have been issued on the RF-716A.

1.4 Modification Time Required

This modification can be performed within three (3) hours.

1.5 Tools Required

a. Drill bit, No. 33

b. Drill bit, 5/16"

c. Punch, Conduit Knockout, 1/2"

SECTION 2. MATERIAL REQUIRED

ITEM NO.	STOCK NO.	NOMENCLATURE	QTY
1.	5935-160-1365	Socket, Tube, 9 Pin, w/Tube Shield	2 ea.
2.		Screws, 4/40 x 1/4" w/nuts/flat washers/ lock washers	4 ea.
3.		Tube Shields, 9 Pin, 1-15/16" High	2 ea.
4.		Grommet; Mfrs Type 2172, 3/16"	1 ea.
5.		Wire, Shielded	24"

ITEM NO.	STOCK NO.	NOMENCLATURE	QTY
6.		Wire, AWG No. 22 Stranded	72"
7.		Tubing, Shrink	12"
8.		MWO Identification Plate	1 ea.

SECTION 3. REASON FOR MODIFICATION

A number of RF-716A transmitters returning from the field had broken solder joints and lifted pads where V1 and V2 tube sockets are solder mounted on the oscillator/driver assembly P.C. Board. This is caused by pressure exerted on the tube socket while installing new tubes during field preventive maintenance or repair. This pressure is absorbed totally by the solder joint and pad, which causes the breakage.

This modification is intended to extend the life of the P.C. Board as well as eliminate the cause of failure described above.

SECTION 4. MODIFICATION PROCEDURE

4.1 Remove the top and bottom covers which are secured by the screws through the center of each of the four rubber feet on the rear panel. The bottom cover is also secured by two screws to the lower edge of the front panel. Remove the two screws, and the rear feet, then slide each cover to the rear, out of the slots in the case edge brackets to disengage from the chassis.

4.2 Remove the tube sockets V1 and V2 from the oscillator/driver P.C. Board (A3). See Figure 1 and 2.

4.3 Remove the "L" shaped bracket shown in Figure 3 by removing three phillips head screws. Save hardware.

4.4 Using the suggested small tools, drill a 5/16" hole, 4 - #33 hole, and 2 - 1/2" conduit knockouts in the "L" shaped bracket. See Figure 5 for locations.

4.5 Reinstall bracket forward of the original location (toward front panel) using the same three screws removed in Step 4.3. See Figure 4.

4.6 Mount the tube sockets and grommets on "L" shaped bracket.

4.7 Jumper Pins 3, 4, 5, and 9 (Pin 9 to ground). Cut and solder wires from Pins 1, 2 (shielded wire only), 6, 7, 8, 9 to original solder joints in P.C. Board.

NOTE: Wire from Pin 2 to original point on P.C. Board must be shielded on each tube and grounded to Pin 3.

4.8 Replace original tube shields with shields 1 15/16" in height.

4.9 This completes the modification.

SECTION 5. REMINDER

An MWO Identification Plate should be placed on the rear panel of the chassis. The identification plate should be marked as follows:

5.1 MWO 208-1.

5.2 Date of Modification.

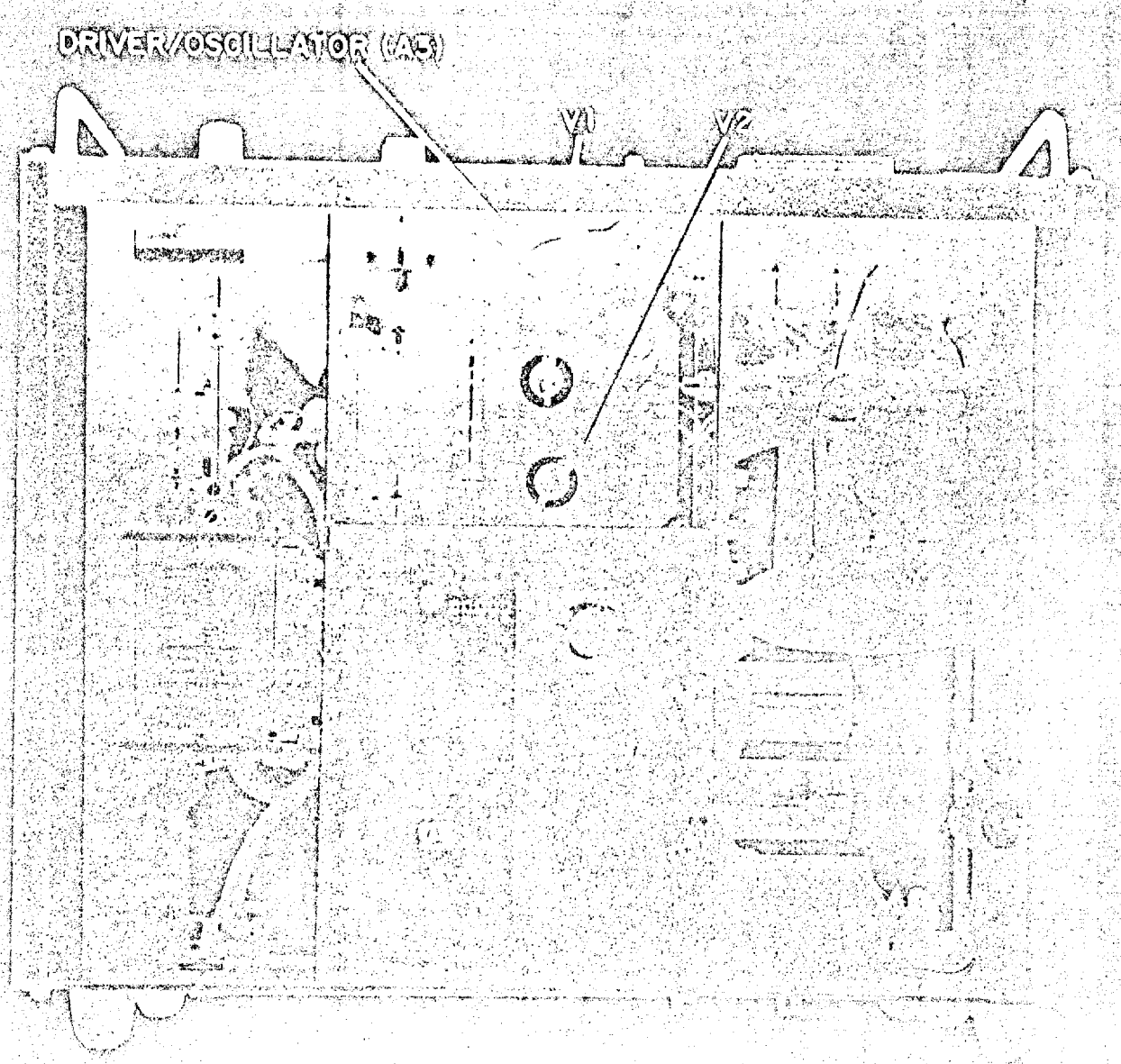


Figure 1. Top of Chassis (Metric Components)

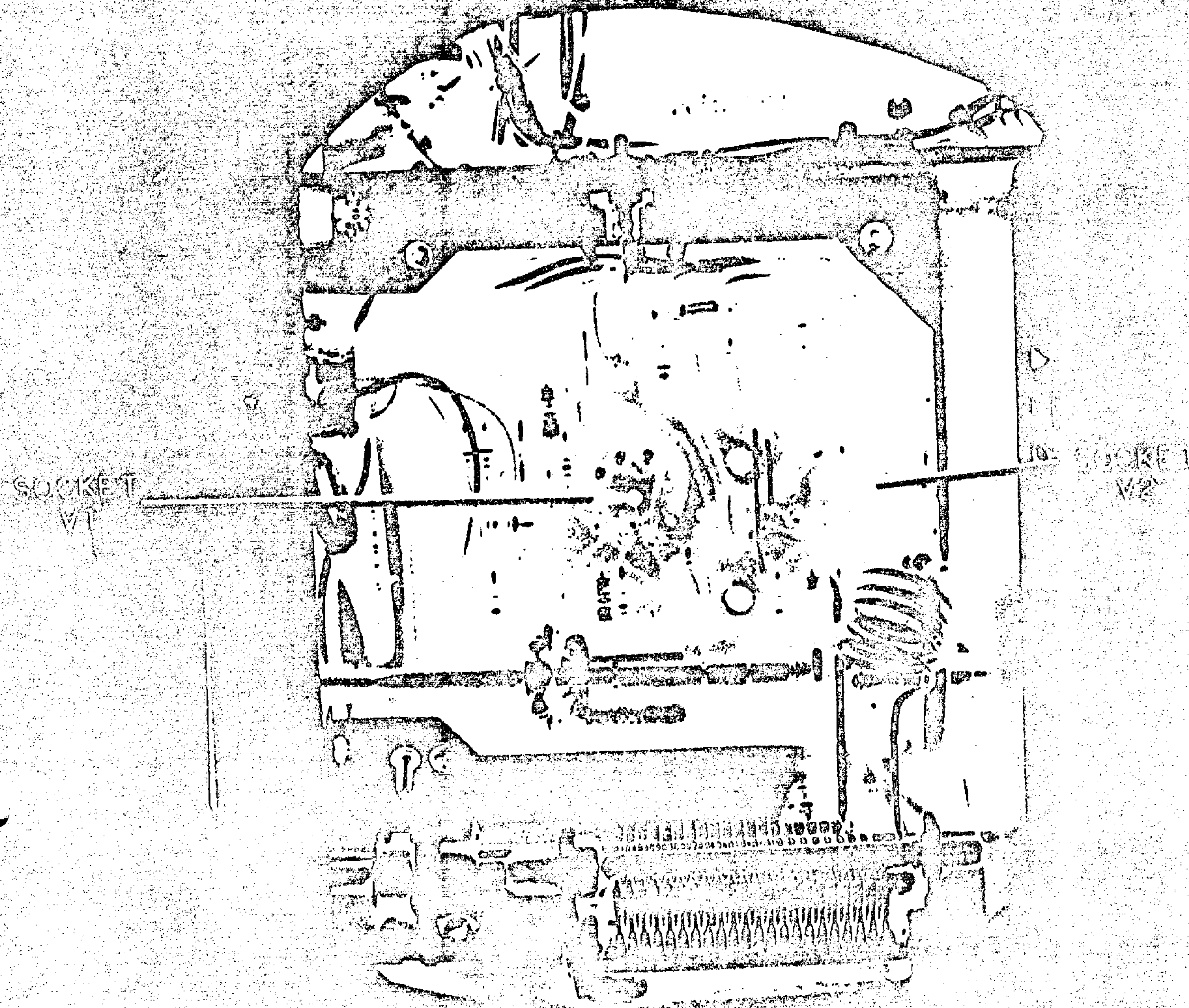
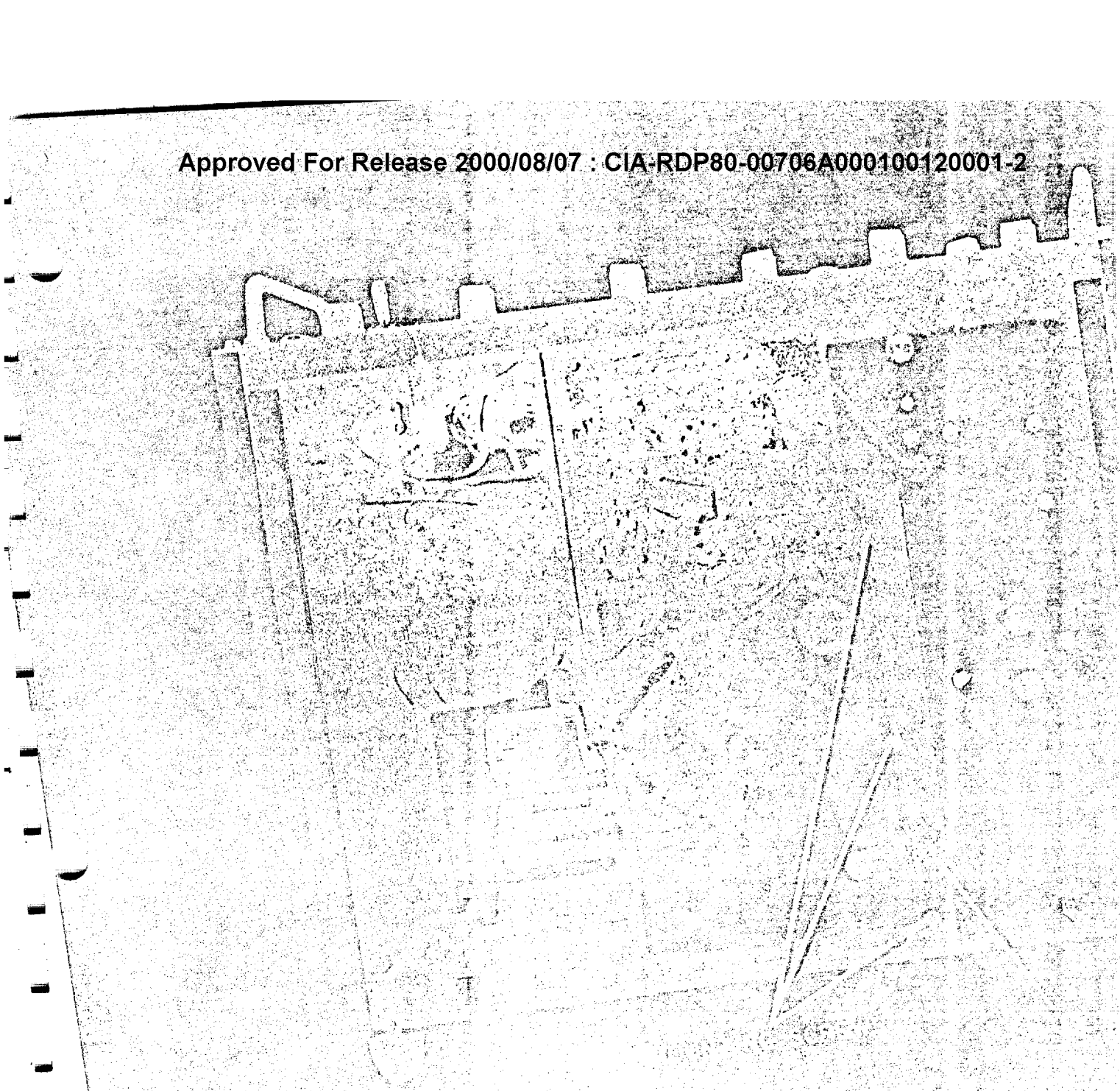


Figure [illegible] Oscillator/Driver P.C. Board
(Modified)



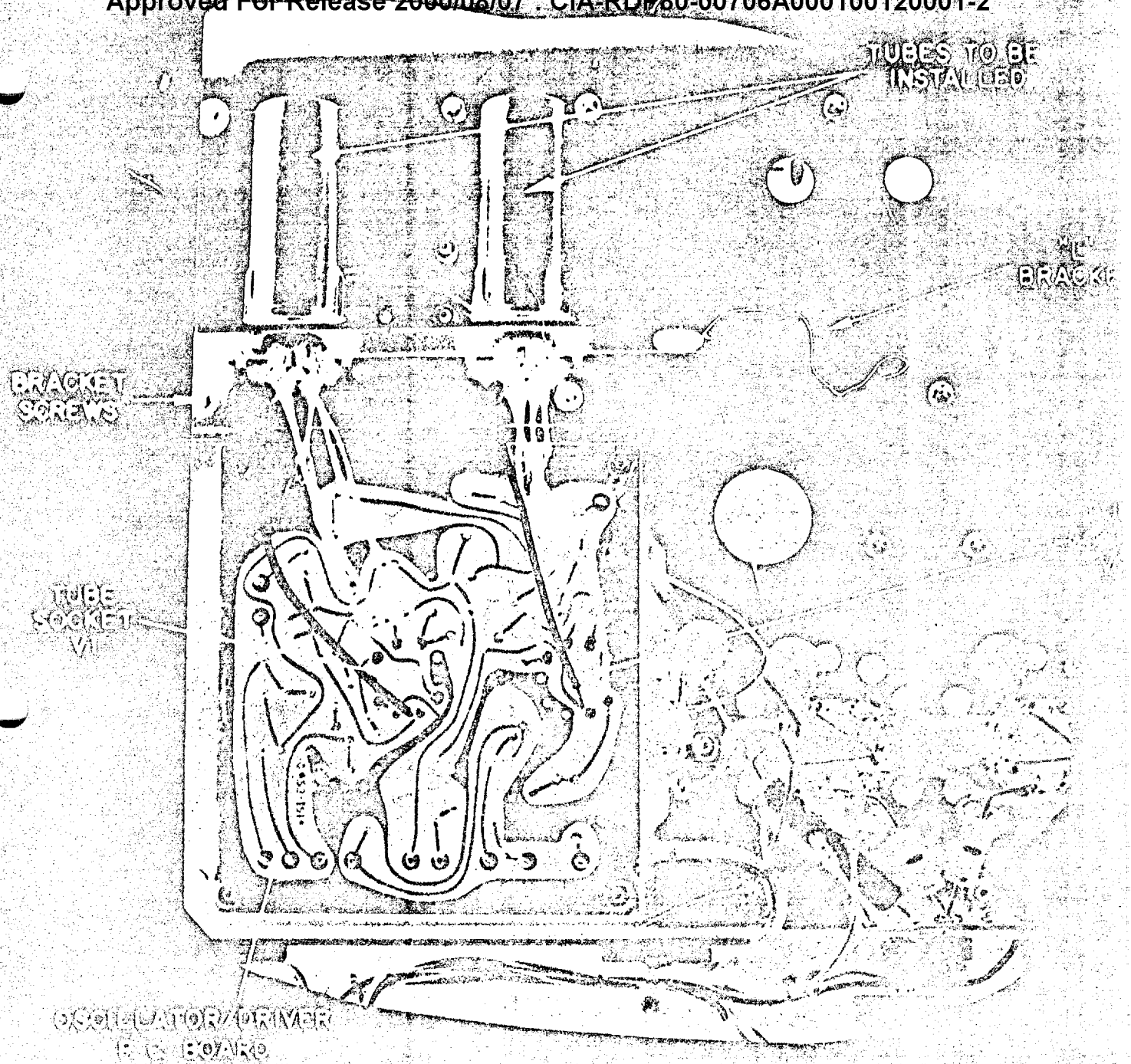


Figure 4. RF-116A Transmitter (Modified)

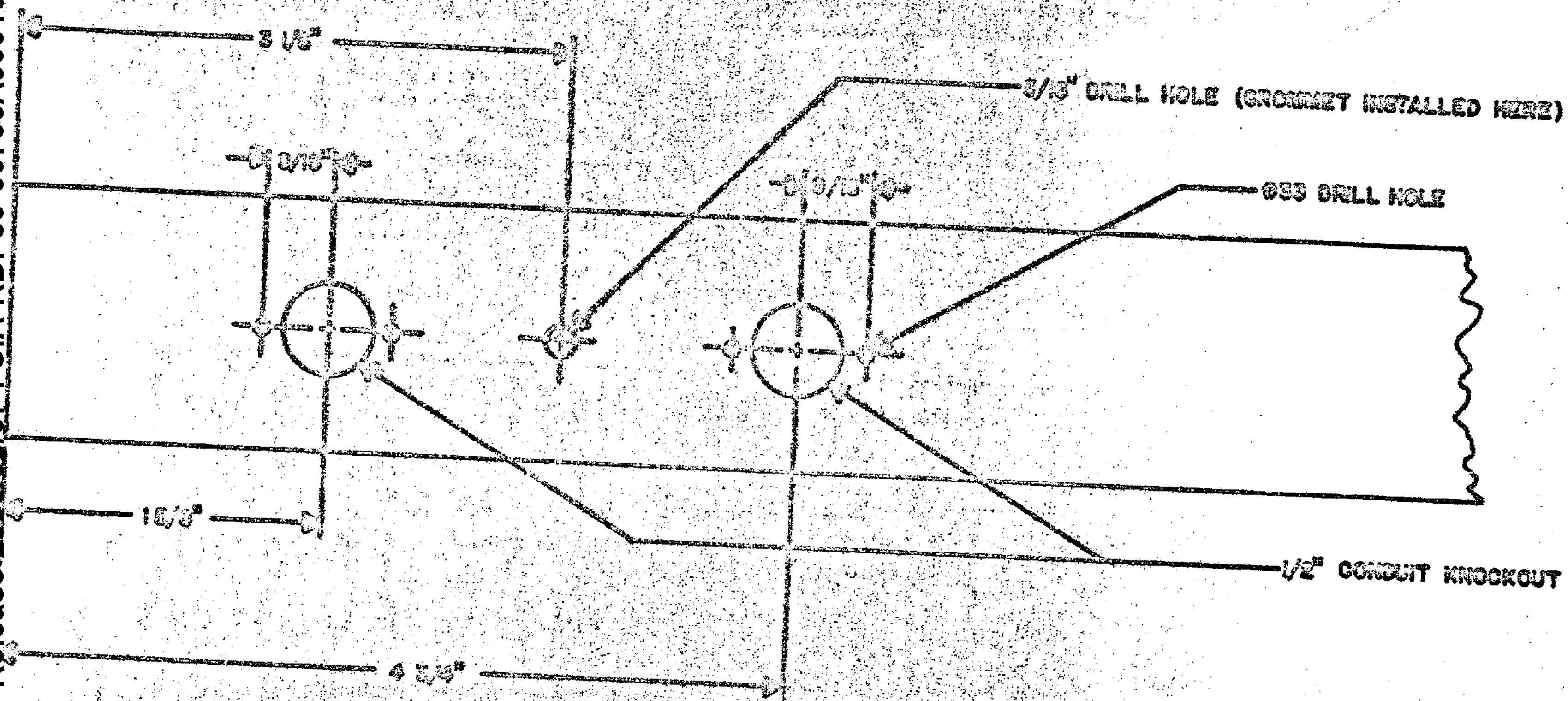


Figure 5 – "L" Bracket (Modified)

A. $1,242.48 yearly is the estimated cost savings gained by implementing this modification. The cost estimate was derived by considering the amount of units in OC stock, the estimated life of the system, the known past failure rate of this particular board, the estimated cost of shipping the unit to the repair and return facility, cost of repair and the cost of performing the MWO.

B. Cost Savings Analysis

PERTINENT INFORMATION

Number of RF716A CW Transmitters in use	125 each
Number failed last year because of broken tube socket	8 each
Estimate number of units to fail per year in the future	8 each
Projected Service Life	12 plus years

REPAIR COSTS

Estimated average repair time per unit	1.5 man hours

LABOR COSTS

GS-9/4 E.T. @ $7.46 per hour
Total repair costs per year
1.5 man hours/unit x 8 units x $7.46 wages/hour $89.52

SHIPPING COSTS

OC-ESD-MSB estimates $1.40 per pound air transport from average outstation to area Headquarters

SHIPPING WEIGHT:

Equipment weight	30 lbs.
Pack Material weight	20 lbs.
	50 LBS.

Shipping Cost Per Unit	
$1.40 per pound x 50 pounds	$ 72.00
Round trip cost	$144.00
Packing Cost per unit	$ 30.00
Total Shipping Costs per unit	$174.00
Total Shipping Costs per year	
8 units average x $174.00 per unit	$1,392.00

MWO Costs

Estimated time required to perform modification	3 hours
Estimated cost of materials per unit	$ 5.00
Labor costs per unit GS-9/4 E.T. @ $7.46 per hour x 3 hours per unit	$ 22.38
Total MWO Cost per unit	$ 27.38
Cost of modification for eight units	$239.04

Yearly cost saving if MWO was performed during normal equipment Repair and Return to the Area T&I facility

Cost of unnecessary shipment	$1,392.00
Cost of repair	89.52
	$1,481.52
Cost of MWO	(239.04)
Total Yearly Savings	$1,242.48

Next 4 Page(s) In Document Exempt

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 77-219: dated 28 December 1976

[redacted], GS-09 STATINTL
Telecommunications Specialist
Directorate of Science and
Technology/OTS

A. Summary of Suggestion

1. Background

OTS Signal Center received cable traffic on single ply TTY paper and reperforator tape. The single ply copy was retained for communications files and the reperforator tape was used to run off cable traffic on seven ply NCR paper for distribution to OTS. Approximately two rolls of tape and two rolls of single ply paper were used each day. In addition, one burn bag per day was used for tape and paper that was thrown away.

2. Suggestion

Eliminate the use of single ply TTY paper and the reperforator tape by receiving cable traffic directly onto seven ply NCR paper. Use the seventh copy of NCR paper for the communications files. Use the other six copies for distribution to OTS.

B. Evaluation

1. The OTS Signal Center communicator implemented the suggestion in November 1976.

2. Tangible savings are:

2 rolls of reperforator tape @ 28¢ per roll	$ .56
2 rolls of single ply paper @ $1.00 per roll	2.00
1 burn bag per day	.09
Total	$2.65

$2.65 per day X 6 days per week = $15.90 per week X 52 weeks per year = $826.80

3. OC rated intangible benefits MODERATE/LIMITED for this improvement.

C. Recommendation of the Executive Secretary

1. Not line of duty.

2. $125 award based on annual savings of $827 ($85), plus MODERATE/LIMITED ($40) intangible benefits.

D. Decision of the Chairman

STATINTL

[redacted]
Chairman, Suggestion/and Achievement Awards Committee

2 Mar 77
Date

125.-
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 77-220: dated 28 December 1976

25X1A [redacted] GS-09
Telecommunications Specialist
Directorate of Science and
Technology/OTS

A. Summary of Suggestion

1. Background

OTS Signal Center cable traffic reception involved 3 1/2 to 4 hours of processing time using one communication channel. This method required the communicator to be on his feet for the major part of the working day. The communicator was constantly backlogged and occasionally required backup assistance from OTS Registry personnel to alleviate the backlogs. In addition, seldom did OTS officers receive the previous days cable traffic in its entirety prior to eleven o'clock.

2. Suggestion

Utilize a second communication channel for incoming OTS cable traffic. This method cuts cable processing time in half and virtually eliminates backlog situations.

B. Evaluation

1. OTS Signal Center activated a second communication channel on 19 November 1976. This circuit was available within an existing multiplex system at no additional cost. Increased efficiency has been particularly noticeable in cable processing time. Incoming cable processing time has been reduced to one-half, consequently, more time is available for processing the outgoing cables. This greater efficiency has reduced the amount of assistance provided by alternate communicators. Through better utilization of equipment, machine wear has been lessened. Also, prior to these operational system changes, consideration was given to the assignment of a second communicator.

2. OC said that overtime due to traffic handling has been eliminated. Prior to adoption of this suggestion, overtime averaged 14 hours per month. Annual overtime of 168 hours @ GS-09/5 ($11.52 per hour) results in a cost avoidance of $1,935.36. OC rated intangible benefits SUBSTANTIAL/LIMITED.

3. In recognition of the improved communications service being provided by the OTS Signal Center, the suggester received a letter of commendation on 23 December 1976 from Director of Technical Service.

C. Recommendation of the Executive Secretary

1. Not line of duty.

2. $250 award based on a cost avoidance of $1,935 ($150), plus SUBSTANTIAL/LIMITED ($100) intangible benefits.

D. Decision of the Chairman

[redacted]
Chairman, Suggestion and
Achievement Awards Committee

2 Mar 77
Date

25X1A

250.-
Award

SUMMARY AND RECOMMENDATIONS FOR THE CHAIRMAN

SUGGESTION NO. 77-241: dated 17 January 1977
[redacted]., GS-10 25X1A
[redacted] GS-09
GS-09
Communication Technicians
Directorate of Administration/OC

A. Summary of Suggestion

1. Background

25X1A

Many [redacted] field terminal items require extra time to remove and replace because of inadequate or incompatible tools.

2. Suggestion

Obtain field operator/technician suggestions for items to be included into a [redacted] Terminal Tool 25X1A Kit. Items which would be useful are: (1) non-metallic wrenches, (2) non-metallic screwdrivers, (3) tube of "Lock Tight" or equivalent to keep the set-screws on the pedestal from constantly coming loose, (4) a low-wattage soldering iron/gun, (5) a small offset screwdriver set (Phillips and Flat-tip), and (6) a one gallon can of high emissivity paint for the dish.

B. Evaluation

1. OC said that the policy of providing any unusual tools required for maintenance of [redacted] 25X1A terminals has already been established. For example, unusually long screwdrivers are provided to each 25X1A [redacted] terminal to facilitate replacement of the parametric amplifier. High emissivity paint is presently part of the Depot stock of [redacted] 25X1A parts and can be ordered as required. stations were recently reminded of this in the attached

dispatch dated 25 January 1977.

2. With the exception of non-metallic wrenches and non-metallic screwdrivers, the other items suggested are already included in the complement of tools and equipment at any communications center. However, as a result of this suggestion, non-metallic wrenches and screwdrivers will be provided to all [redacted] stations. The klystron tube generates a strong magnetic field which can attract magnetic tools. Klystron tubes are changed on the average of only once every 20 months; the non-magnetic tools will eliminate the nuisance factor.

25X1A

C. Recommendation of Executive Secretary

1. Not line of duty.

2. $75 award, equally shared (MODERATE/EXTENDED).

D. Decision of the Chairman

[redacted]
Chairman, Suggestion and Achievement Awards Committee

2 Mar 77
Date

25X1A

75.-
Award

Att

DISPATCH

CLASSIFICATION: CONFIDENTIAL

ORIGINATOR'S REQUEST FOR HQS. PROCESSING

TO

FO

NO INDEXING

APERTURE CARD REQUESTED

OM

Director of Communications

SUBJECT

SC-1 Maintenance

TION REQUIRED - REFERENCES

The following information is provided to facilitate maintenance and to improve reliability of [redacted] terminals. 25X1A

1. Lubrication of SC-1 Antenna Jactuators:

The two jactuators in the SC-1 antenna require lubrication at a minimum of six month intervals. A good grade of grease, such as specified on page 9-23 of the SC-1 manual, should be used. This lubrication can also be performed when the drive motors are serviced. If a station does not possess a suitable grease gun, Headquarters will furnish one, including cartridges of grease. Please submit your request 25X1A via [redacted] cable by 15 February 1977 so that a consolidated order can be made. In the future, a grease gun will be supplied with each [redacted] terminal 25X1A

2. Paint for the SC-1 Antenna:

25X1A a. [redacted] antennas should be painted periodically to prevent corrosion and to improve their appearance. There are two types of paint for these antennas; a special paint for the reflector, feed horn, and dielguide, and another for the remainder of the antenna. The paint for the reflector, feed horn, and dielguide is special in that it will not attenuate signals in the 7-8 GHz range. It is "High Reflective #6," manufactured by the Triangle Paint Co., and is available 25X1A as [redacted] Use of another paint could result in significant signal attenuation. If there is any doubt about a paint that you have, please advise Headquarters before painting the reflector.

CROSS REFERENCE TO

25X1A

DISPATCH SYMBOL AND NUMBER

[redacted]

DATE

25 JAN 1977

CLASSIFICATION

CONFIDENTIAL

HQS FILE NUMBER

[redacted]

b. For the remainder of the antenna, "Semi-Gloss #17875," manufactured by Randolph Products, is suggested since it matches the shade of white on the reflector. This paint is also available via [redacted] 25X1A as [redacted], although any good grade of enamel could be used for this portion of the antenna. 25X1A

c. One gallon of each type paint is sufficient for the SC-1A, while the SC-1B requires approximately two gallons of each type.

3. SC-1 Patch Cords:

a. The Tip/Ring/Sleeve patch cords originally used with the high level (60 Ma) patch panels cannot be used reliably in the SC-1 data patch panel. Although these patch cords frequently do work, they occasionally do not, due to small differences in mechanical configuration of the cords, resulting in the false belief that an equipment failure has occurred. Therefore, use of only the SC-1 patch cords, which have a tip with a conical shape vice the round ball of the older style, are required.

b. Since only four SC-1 patch cords are initially provided with each terminal, many stations have used the 60 Ma style patch cord out of necessity. To rectify this situation, Headquarters is procuring three additional PJ-72 (12") patch cords for each [redacted] field station. They will be shipped upon receipt from the vendor. Also, replacements for defective patch cords are available via [redacted] as [redacted] Items 682 for the 12" patch cord, and 683 for the 24" ones. 25X1A 25X1A 25X1A

4. The following information may also be useful in maintenance of terminals 40 through 49:

25X1A a. [redacted] terminals 40 through 49 will incorporate the LNR Communications, Inc., parametric amplifier. This parametric amplifier, down converter, and associated electronics and power supply all mount on an assembly in the SC-1 RF box and is physically compatible with terminals 1 through 39; however, there are no plans to retrofit terminals 1 through 39 with the LNR paramp/down converter.

b. In the event of a paramp failure in terminals 40 through 49, the paramp can be bypassed and the terminal operated with reduced capability. A bypass kit and instructions for installation are included with terminals 40 through 49. Since this procedure differs from the bypass procedure used with the Comtech paramp installed in terminals 1 through 39, a copy of the procedure and additional information concerning its implementation is being provided to each Area Headquarters.

[redacted] 25X1A

Distribution:
"G"

FORM 11-74 (40) 63a USE PREVIOUS EDITION.	CLASSIFICATION CONFIDENTIAL	XXX CONTINUED	PAGE NO. 2 of 2