

# ROUTING SLIP

TO

Mr. Gilpin *any*

APPROVAL	NOTE AND RETURN
SEE ME, PLEASE	YOUR COMMENTS
YOUR SIGNATURE	YOUR INFORMATION
NOTE AND FILE	FOR ACTION

*Noted .*  
*any*

DATE

23/4/1964

FROM

*JS*  
John Saunders

CIVOPS-738/64

23 April 1964

TO : Mr. R. Pelgar, Acting Chief Administrative Officer

FROM : John M. Saunders, Deputy Chief Administrative Officer (Civilian Operations)

SUBJECT : Radio Communications Equipment

.....

Attached is a list of the radio and associated equipment, plus spares, which Civilian Operations needs to instal and operate the emergency regional communications system within the Congo. I shall be grateful if you will arrange for this equipment and spares to be transferred to Civilian Operations either without charge, or at a nominal charge in Congolese francs (see paragraph 11 of Civilian Operations 1964 Administrative Budget).

cc: Mr. Gilpin ✓  
Mr. Cooper  
Mr. Manson  
Mr. Pichler



ELECTRONIC AND OTHER EQUIPMENTT.A.B.

<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Transmitter TMC GPT-40K	1		\$ 76,339.75
Transmitter TMC GPT-10K	1		\$ 29,484.45
Transmitter TMC GPT-750 (a)	2	\$ 4,027.40	\$ 8,054.80
Transmitter SSB Racal TA-83	2	\$ 3,472.00	\$ 6,944.00
Rack, Par Metal PL-4824	3	\$ 126.50	\$ 379.50
Rack, Par Metal PL-6724	1		\$ 224.18
Receiver, Racal, RA-17C-12	1		\$ 1,162.00
Tone Converter Shelf, FS Northern	2	\$ 354.00	\$ 708.00
FS Tone Converters	13	\$ 389.00	\$ 5,057.00
Line Battery Power Supply	1		\$ 348.00
Electronic Frequency Meter	1		\$ 295.00
Frequency & Shift Monitor	1		\$ 600.00
Standing Wave Ratio Indicator TMC	1		\$ 409.10
Portable Master Oscillator TMC	1		\$ 727.80
RF Patching Assembly	4	\$ 171.20	\$ 684.80
Clock	1		\$ 81.75
Power & Distribution Panel	1		\$ 3,446.00
Transformer 200 KVA	1		\$ 994.00
Workbench, Wooden	1		\$ 94.40
Signal Generator, Marconi	1		\$ 890.40
Vise	1		\$ 25.00
Tool Board, w/tools	1		\$ 40.00
Vacuum Cleaner	1		\$ 140.00
Roller Truck	1		\$ 10.00
Compressor	1		\$ 150.00
		Forward	\$137,279.93



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought forward			\$137,279.93
Redifon VHF Telephony Set	1		\$ 4,060.00
Standard Steel Bin, Equipto 12"	6	\$ 76.97	\$ 461.82
Extension Ladder, 20'	1		\$ 48.94
Typewriter, Telegraphic, Portable	1		\$ 88.33
Air Conditioning Unit, Westinghouse	1		\$ 10,230.00
Generator, 125 KVA, Hampson	1		\$ 4,500.00
Battery Charger, Siemens	1		\$ 108.00
Antenna Masts, Jontz Model 300	6	\$ 135.00	\$ 810.00
Antenna Masts, Jontz Model 500	24	\$ 147.95	\$ 3,550.80
Antenna Matching Unit, Racal	3	\$ 336.00	\$ 1,008.00
Ant. Transmitter Coupler TMC 3500	2	\$ 618.75	\$ 1,237.50
Transformer, 200 KVA 6600/380 Volt	1		\$ 1,548.40
Redifon Telephony Unit	2	\$ 4,060.00	\$ 8,120.00
Teleprinter Model 15	4	\$ 750.00	\$ 3,000.00
Reperforator Teletype M-14	1		\$ 700.00
Reperforator Teletype M-28	1		\$ 1,372.91
Transmitter Distributor	3	\$ 315.00	\$ 945.00
Automatic Start/Stop switch	4	\$ 35.00	\$ 140.00
Receiver, Racal RA-17C-12	3	\$ 1,190.00	\$ 3,570.00
Receiver, Racal RA-117	2	\$ 1,260.00	\$ 2,520.00
Frequency Converter, RA-70	2	\$ 176.40	\$ 352.80
Frequency Converter, Plessey PV-78	1		\$ 790.80
Antenna Multi Coupler	1		\$ 781.00
Decade Freq. Converter MA-150A	1		\$ 1,520.00
Transmitter, Mores, GNT Mod.112	1		\$ 318.00
Morse Perforator, Model 51	1		\$ 443.00
Antenna Transfer Switch	1		\$ 60.00
		Forward	\$189,564.23



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought Forward			\$189,564.23
Vibroplex Key	3	\$ 26.28	\$ 78.84
Receiver SSB, Racal	2	\$ 686.00	\$ 1,372.00
Collins Transceiver KWH-2A	1		\$ 1,062.50
Linear Amplifier, Collins 30-S-1	1		\$ 1,322.60
Console w/speaker, Collins 312B-4	1		\$ 165.75
Generator, 15 KVA	1		\$ 2,030.00
Transformer, 3-4 wire	1		\$ 195.00
Voltmobile Autotransformer	1		\$ 347.20
Transformer, 500 Watt	1		\$ 19.00
Speech & Telegraph Shelf	2	\$ 1,573.00	\$ 3,146.00
Freq. Shift Tone Conv. Shelf	2	\$ 354.00	\$ 708.00
Freq. Shift Tone Converters	13	\$ 389.00	\$ 5,057.00
Freq. Shift Tone Keyer Shelf	1		\$ 3,245.00
Freq. Shift Tone Keyers	13	(included in price of freq. shift Tone Keyer Shelf)	
Electronic Freq. Meter	1		\$ 295.00
Line Battery Power Supply	2	\$ 348.00	\$ 696.00
Antenna Matching Unit, Racal	1		\$ 336.00
Cabinet, Par Metal 6724	2	\$ 224.18	\$ 448.36
Cabinet EMC Rack, 61"	1		\$ 318.75
Cabinet, Northern Rack	2	\$ 276.25	\$ 552.50
4-Wire Terminating Set	1		\$ 143.36
Typewriter, Telegraphic, Olivetti	2	\$ 136.66	\$ 273.32
Clock, Chelsea	2	\$ 50.00	\$ 100.00
Time Recorder, Rapidprint	2	\$ 148.50	\$ 297.00
Time Recorder, IBM	2	\$ 100.00	\$ 200.00
Distribution Stamp, Rapidprint	1		\$ 217.50
Electric Stamp	1		\$ 101.50
Adding Machine, Addo	1		\$ 268.00
Forward			\$212,560.41



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought Forward			\$212,560.41
Table, Teletype Equipment	2	\$ 400.00	\$ 800.00
Table, CW Equipment (2-piece)	1		\$ 336.00
Table, CW Equipment	1		\$ 326.56
Table, small, w/casters	1		\$ 31.50
Antenna Masts, 40'	4	\$ 75.00	\$ 300.00
Collins, Transceivers, KWM-2A	6	\$ 1,062.50	\$ 6,375.00
Linear Amplifier, Collins 30-S-1	3	\$ 1,322.60	\$ 3,967.80
Generators, 2.5 KVA	6	\$ 300.00	\$ 1,800.00
Antenna Masts	12	\$ 60.00	\$ 720.00
Coupling Transformers	6	\$ 336.00	\$ 2,016.00
Typewriters, Telegraphic, Portable	2	\$ 84.00	\$ 168.00
Typewriters, Telegraphic, Standard	2	\$ 136.66	\$ 273.32
Vibroplex Keys	6	\$ 26.28	\$ 157.68
Clock	6	\$ 82.00	\$ 492.00
Tool Boxes, plus Tools	6	\$ 200.00	\$ 1,200.00

Total \$231,524.27

Running Spares for above items

\$ 25,000.00

Grand Total \$256,524.27

Leopoldville

21st April 1964.



Reg.

ADM 220

23 April 1964

TO: Office of the Chief Administrative Officer  
FROM: John M. Saunders, Deputy Chief Administrative Officer  
(Civilian Operations)  
SUBJECT: Installation of Collins Transmitter/Receiver

Proposed insertion on Luluabourg FAR

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Enclosed please find letter addressed to Mr. Scheller on the above subject, which is self-explanatory.



6

To Luluabourg

FAR 16/11 of 24/4/64



CIVOPS-738/64

23 April 1964

TO : Mr. R. Polgar, Acting Chief Administrative  
Officer

FROM : John H. Saunders, Deputy Chief Administrative  
Officer (Civilian Operations)

SUBJECT : Radio Communications Equipment

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Attached is a list of the radio and associated equipment, plus spares, which Civilian Operations needs to instal and operate the emergency regional communications system within the Congo. I shall be grateful if you will arrange for this equipment and spares to be transferred to Civilian Operations either without charge, or at a nominal charge in Congolese francs (see paragraph 11 of Civilian Operations 1964 Administrative Budget).

cc: Mr. Gilpin  
Mr. Cooper  
Mr. Hanson  
Mr. Pichler



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Clock	1		\$ 81.75
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Total \$231,524.27

Running Spares for above items \$ 25,000.00

Grand Total \$256,524.27

Leopoldville

21st April 1964.



Run copy

DWM/bc

ADM 241

23 April 1964

To: Mr. J. Saunders, Deputy Chief Administrative Officer,  
Civilien Operations

From: D.E. Hanson, Chief General Services

Subject: Collins Transceivers

I refer to your Civops-724/64 dated 22 April 1964.

As previously explained the military will be unable to release the Collins Transceiver which they are using on the Kikwit operation until 5 June 1964 or thereabout. We are still awaiting spare parts for one transceiver which is at present located in this building.

Transceivers are already installed at Lulusbourg, Bukavu and Elisabethville.

As soon as the military release their transceivers they will be installed in Stanleyville and Coquilhatville.

*D. E. Hanson*

cc: Mr. Hajman  
Mr. Brinkman  
Mr. Cacouris



~~Re 110~~ Adm 220.

OPERATION DES NATIONS UNIES  
AU CONGO



UNITED NATIONS OPERATION  
IN THE CONGO

BOITE POSTALE 7248  
LEOPOLDVILLE  
REPUBLIQUE DU CONGO  
CABLE: ONUC. LEOPOLDVILLE

PER 000 (1) COMM

22 April 1964

APR 23 1964  
ACTION

To: Mr. J. Saunders, Deputy Chief Administrative  
Civilian Operations

From: D.T. Manson, Chief General Services

Subject: Radio Communications Staff and Equipment

TO:	Officer, <i>Saunders</i>
2	
3	
<input type="checkbox"/>	- Action Completed
<input type="checkbox"/>	- Acknowledged
<input type="checkbox"/>	- No Action Required
INITIALS	

Further to your Civops-705/64 of 18 April 1964.

The following Radio Officers are earmarked for assignment to the Field Stations shown below in furtherance of your communication plan:-

1. A. Clements	FS-3	Bukavu
2. S. Doulaveris	FS-3	Elisabethville
3. P. Epirotis Colletsis	FS-3	Stanleyville
4. S. Lambrinoudakis	FS-3	Luluabourg
5. F. Larsen	FS-3	Albertville
6. S. Lochen	FS-3	Coquilhatville

*D. Manson*



CIVOPS-732

22 April 1964

TO : Mr. A.C. Gilpin, Acting Chief of Civilian Operations

FROM : John M. Saunders, Deputy Chief Administrative Officer (Civilian Operations)

SUBJECT: Communication with Bukavu

At 3 p.m. this afternoon I spoke by radio telephone with Mr. Kunitzberger in Bukavu. He reported all was calm in Bukavu, and that there were no problems at the moment. All experts and their families in Bukavu were safe and well.

He could not give information on experts who were travelling in the region, or at a distance from Bukavu, since they were out of touch. He arranged to talk again tomorrow afternoon at 3 p.m., when he will give a further report.

This first test of our plan for an emergency regional communications system worked well. Although the amplifier has yet to be installed, I could hear Mr. Kunitzberger reasonably well, and he seemed to be hearing me without great difficulty.

cc: Mr. George Tafall  
Mr. Cherry  
Mr. Folgar



Same letter sent to → ADM 220  
Lulu-Eville-Aville-coq-Stan - DRG 130/1/3 Coq

CivOps 727/64

22 April 1964

To : Mr. C. Rishi, Administrative Assistant, Coquilhatville  
From : John M. Saunders, Deputy Chief Administrative Officer  
(Civilian Operations)  
Subject : Installation and testing of Ceiling Transceiver

1. As you are aware, with the departure of the troops and the phase out of the ONUC operation, a number of services that were being provided by the latter will no longer be available to the TAB office. Substitutes are therefore being sought and one of the first that I am concerned with is a system of efficient communications within and between the various field stations and Headquarters, Leopoldville.

2. After the withdrawal of ONUC troops from certain field stations and the consequent cessation of the independent system of communications they provided, we should use the Government's Ministry of PTT facilities as fully as possible. The Government is now completing, with the aid of ITU experts, a system of 'telex' communication connecting the following cities and towns: Coquilhatville, Bukavu, Elisabethville, Leopoldville, Luluabourg and Stanleyville. This system is being installed at the local PTT centre of each of the above cities and will link them directly with each other. By special arrangement, each of the UN offices in these locations will be linked by cable to the local PTTs and the necessary telex machine installed in the UN office. The operation of this equipment is very simple and does not require the services of a specialized staff member. A person who can type on a typewriter can easily operate it. Its maintenance will be the responsibility of the ITU experts.

3. The completion of the installation of the 'Telex' in the above cities was estimated at eight weeks 'in principle' and the first station, Stanleyville, has been operative since last week. Other arrangements are being made to cover the lapse of time between now and the time the regular 'Telex' system will be installed in your area. These arrangements cover the installation of telegraph and voice communication systems which will have a two-fold use as follows:

(a) serve as a regular means of communication between your field station and headquarters, Leopoldville, until the time the 'Telex' is installed, although it may not be able to carry all regular traffic alone - this question we can only settle by test;



(b) after the installation of the 'Telex', serve as an emergency means of communication with headquarters, Leopoldville, in the event of temporary interruption in the 'Telex' system or for reasons of security in connection with the protection of UN personnel and property.

4. In view of the above, a staff member of ONUC Communications Unit will visit your station and carry out the following tasks:

- (a) install a 'Collins' Transmitter/Receiver and amplifier;
- (b) operate and test this apparatus by establishing direct contacts with Leopoldville and possibly other stations;
- (c) report on the efficiency and reliability of the system based on the period of testing and submit his recommendations regarding improvements, etc.;
- (d) train you in the operation of the set. Written tuning and other instructions will be provided. As soon as possible, you should take active part in the testing and insure its continuation,

5. The purpose of this testing is to assess the efficiency of this line of communication. The maintenance, repairs, tuning-up, etc. will be arranged to be done by staff of UN agencies available in the area.

6. Your comments in connexion with the above during and/or after the testing will be appreciated.

7. In addition to the above, it will be appreciated if you will explore the means of communication available locally between your city and all locations where UN and agency staff members and teachers under UNESCO guarantee contracts are stationed and the best possible way to exchange messages with them in cases of emergency. Possible arrangements might be the local PTT network, communication lines and equipment of private firms and of religious missions, etc. Your earliest report in this respect will be appreciated. It should include such information as the number of staff (including families) concerned, by location, the means of communications currently available, their reliability and what arrangements are suggested to be made if a local service is inexistent or unreliable.

cc: Mr. R. Folger  
Mr. G. Brinkman



CivOps 726/64

22 April 1964

→ ADM 220  
ORA 130/1/3 F/11k

To : Mr. W. Schmid, Administrative Assistant, Albertville  
From : John M. Saunders, Deputy Chief Administrative Officer  
(Civilian Operations)  
Subject : Installation and testing of Collins Transceiver

1. As you are aware, with the departure of the troops and the phase out of the ONUC operation, a number of services that were being provided by the latter will no longer be available to the TAS office. Substitutes are therefore being sought and one of the first that I am concerned with is a system of efficient communications within and between the various field stations and Headquarters, Leopoldville.

2. After the withdrawal of ONUC troops from certain field stations and the consequent cessation of the independent system of communications they provided, we should use the Government's Ministry of PTT facilities as fully as possible. The Government is now completing, with the aid of ITU experts, a system of 'telex' communication connecting the following cities and towns: Coquilhatville, Bokavu, Elisabethville, Leopoldville, Lulubourg and Stanleyville. This system is being installed at the local PTT centre of each of the above cities and will link them directly with each other. By special arrangement, each of the UN offices in these locations will be linked by cable to the local PTTs and the necessary telex machine installed in the UN office. The operation of this equipment is very simple and does not require the services of a specialized staff member. A person who can type on a typewriter can easily operate it. Its maintenance will be the responsibility of the ITU experts.

3. The completion of the installation of the 'Telex' in the above cities was estimated at eight weeks 'in principle' and the first station, Stanleyville, has been operative since last week. In view of the fact that no telex system will be available in your area, an independent telegraph and voice communication system will be installed to serve as a regular means of communication between your station and headquarters, Leopoldville.

4. In view of the above, a staff member of ONUC Communications Unit will visit your station and carry out the following tasks:



- (a) install a 'Collins' Transmitter/Receiver and amplifier;
- (b) operate and test this apparatus by establishing direct contacts with Leopoldville and possibly other stations;
- (c) report on the efficiency and reliability of the system based on the period of testing and submit his recommendations regarding improvements, etc.;
- (d) train you in the operation of the set. Written tuning and other instructions will be provided. As soon as possible, you should take active part in the testing and insure its continuation.

5. The purpose of this testing is to assess the efficiency of this line of communication. The maintenance, repairs, tuning-up, etc. will be arranged to be done by staff of UN agencies available in the area.

6. Your comments in connexion with the above during and/or after the testing will be appreciated.

7. In addition to the above, it will be appreciated if you will explore the means of communication available locally between your city and all locations where UN and agency staff members and teachers under UNESCO guarantee contracts are stationed and the best possible way to exchange messages with them in cases of emergency. Possible arrangements might be the local PTT network, communications lines and equipment of private firms and of religious missions, etc. Your earliest report in this respect will be appreciated. It should include such information as the number of staff (including families) concerned, by location, the means of communications currently available, their reliability and what arrangements are suggested to be made if a local service is in-existent or unreliable.

cc: Mr. R. Folger  
Mr. G. Brinkman



ADM 220  
JS/jc

CIVOPS-724/64

22 April 1964

TO : Mr. D. Hanson, Chief of General Services  
FROM : John M. Saunders, Deputy Chief Administrative  
Officer, Civilian Operations  
SUBJECT : Collins Transceivers

I shall be grateful if you will explore the possibility of installing, in Stanleyville and Coquilhatville, the next two Collins transceivers to become available.

cc: Mr. Hajman  
Mr. Gacouris



ADM 220

ORR 130/1/3 Buk

CivOps 715/64

21 April 1964

To : Mr. H. Kunitzberger, Administrative Assistant, Sukavu  
From : John M. Saunders, Deputy Chief Administrative Officer  
(Civilian Operations)  
Subject : Installation and testing of Collins Transceiver

1. As you are aware, with the departure of the troops and the phase out of the ONUC operation, a number of services that were being provided by the latter will no longer be available to the TAB office. Substitutes are therefore being sought and one of the first that I am concerned with is a system of efficient communications within and between the various field stations and Headquarters, Leopoldville.

2. After the withdrawal of ONUC troops from certain field stations and the consequent cessation of the independent system of communications they provided, we should use the Government's Ministry of PTT facilities as fully as possible. The Government is now completing, with the aid of ITU experts, a system of 'telex' communication connecting the following cities and towns: Coquilhatville, Sukavu, Elisabethville, Leopoldville, Lubumbashi and Stanleyville. This system is being installed at the local PTT centre of each of the above cities and will link them directly with each other. By special arrangement, each of the UN offices in these locations will be linked by cable to the local PTTs and the necessary telex machine installed in the UN office. The operation of this equipment is very simple and does not require the services of a specialized staff member. A person who can type on a typewriter can easily operate it. Its maintenance will be the responsibility of the ITU experts.

3. The completion of the installation of the 'Telex' in the above cities was estimated at eight weeks 'in principle' and the first station, Stanleyville, has been operative since last week. Other arrangements are being made to cover the lapse of time between now and the time the regular 'Telex' system will be installed in your area. These arrangements cover the installation of telegraph and voice communication systems which will have a two-fold use as follows:

(a) serve as a regular means of communication between your field station and headquarters, Leopoldville, until the time the 'Telex' is installed, although it may not be able to carry all regular traffic alone - this question we can only settle by test;



(b) after the installation of the 'Telex', serve as an emergency means of communication with headquarters, Leopoldville, in the event of temporary interruption in the 'Telex' system or for reasons of security in connection with the protection of UN personnel and property.

4. In view of the above, Mr. E. Christodoulou of UNOC Communications Unit, who has reported to you on 20 April 1964 will carry out the following tasks:

- (a) install a 'Collins' Transmitter/Receiver and amplifier;
- (b) operate and test this apparatus by establishing direct contacts with Leopoldville and possibly other stations;
- (c) report on the efficiency and reliability of the system based on the period of testing and submit his recommendations regarding improvements, etc.;
- (d) train you in the operation of the set. Written tuning and other instructions will be provided. As soon as possible, you should take active part in the testing and insure its continuation after Mr. Christodoulou's departure.

5. The purpose of this testing is to assess the efficiency of this line of communication. The maintenance, repairs, tuning-up, etc. will be arranged to be done by staff of UN agencies available in the area. Mr. Meister of ITU is being transferred to Bukavu during the course of this week. It will, therefore, be appreciated if, upon his arrival, you will contact him in this connexion. Instructions will be given by the Chief of the ITU Mission to Mr. Meister to provide all assistance possible in the maintenance and operation of the equipment at all times.

6. Your comments in connexion with the above during and/or after the testing will be appreciated.

7. In addition to the above, it will be appreciated if you will explore the means of communication available locally between your city and all locations where UN and agency staff members and teachers under UN/SCU guarantee contracts are stationed and the best possible way to exchange messages with them in cases of emergency. Possible arrangements might be the local PTT network, communication lines and equipment of private firms and of religious missions, etc. Your earliest report in this respect will be appreciated. It should include such information as the number of staff (including families) concerned, by location, the means of communications currently available, their reliability and what arrangements are suggested to be made if a local service is inexistent or unreliable.

cc: Messrs F. Norman  
G. Brinkman  
E. Christodoulou



ELECTRONIC AND OTHER EQUIPMENTT.A.B.

<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Transmitter TMC GPT-40K	1		\$ 76,339.75
Transmitter TMC GPT-10K	1		\$ 29,484.45
Transmitter TMC GPT-750 (a)	2	\$ 4,027.40	\$ 8,054.80
Transmitter SSB Racal TA-83	2	\$ 3,472.00	\$ 6,944.00
Rack, Par Metal PL-4824	3	\$ 126.50	\$ 379.50
Rack, Par Metal PL-6724	1		\$ 224.18
Receiver, Racal, RA-17C-12	1		\$ 1,162.00
Tone Converter Shelf, FS Northern	2	\$ 354.00	\$ 708.00
FS Tone Converters	13	\$ 389.00	\$ 5,057.00
Line Battery Power Supply	1		\$ 348.00
Electronic Frequency Meter	1		\$ 295.00
Frequency & Shift Monitor	1		\$ 600.00
Standing Wave Ratio Indicator TMC	1		\$ 409.10
Portable Master Oscillator TMC	1		\$ 727.80
RF Patching Assembly	4	\$ 171.20	\$ 684.80
Clock	1		\$ 81.75
Power & Distribution Panel	1		\$ 3,446.00
Transformer 200 KVA	1		\$ 994.00
Workbench, Wooden	1		\$ 94.40
Signal Generator, Marconi	1		\$ 890.40
Vise	1		\$ 25.00
Tool Board, w/tools	1		\$ 40.00
Vacuum Cleaner	1		\$ 140.00
Roller Truck	1		\$ 10.00
Compressor	1		\$ 150.00
		Forward	\$137,279.93



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought forward			\$137,279.93
Redifon VHF Telephony Set	1		\$ 4,060.00
Standard Steel Bin, Equipto 12"	6	\$ 76.97	\$ 461.82
Extension Ladder, 20'	1		\$ 48.94
Typewriter, Telegraphic, Portable	1		\$ 88.33
Air Conditioning Unit, Westinghouse	1		\$ 10,230.00
Generator, 125 KVA, Hampson	1		\$ 4,500.00
Battery Charger, Siemens	1		\$ 108.00
Antenna Masts, Jontz Model 300	6	\$ 135.00	\$ 810.00
Antenna Masts, Jontz Model 500	24	\$ 147.95	\$ 3,550.80
Antenna Matching Unit, Racal	3	\$ 336.00	\$ 1,008.00
Ant. Transmitter Coupler TMC 3500	2	\$ 618.75	\$ 1,237.50
Transformer, 200 KVA 6600/380 Volt	1		\$ 1,548.40
Redifon Telephony Unit	2	\$ 4,060.00	\$ 8,120.00
Teleprinter Model 15	4	\$ 750.00	\$ 3,000.00
Reperforator Teletype M-14	1		\$ 700.00
Reperforator Teletype M-28	1		\$ 1,372.91
Transmitter Distributor	3	\$ 315.00	\$ 945.00
Automatic Start/Stop switch	4	\$ 35.00	\$ 140.00
Receiver, Racal RA-17C-12	3	\$ 1,190.00	\$ 3,570.00
Receiver, Racal RA-117	2	\$ 1,260.00	\$ 2,520.00
Frequency Converter, RA-70	2	\$ 176.40	\$ 352.80
Frequency Converter, Plessey PV-78	1		\$ 790.80
Antenna Multi Coupler	1		\$ 781.00
Decade Freq. Converter MA-150A	1		\$ 1,520.00
Transmitter, Mores, GNT Mod.112	1		\$ 318.00
Morse Perforator, Model 51	1		\$ 443.00
Antenna Transfer Switch	1		\$ 60.00
		Forward	\$189,564.23



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought Forward			\$189,564.23
Vibroplex Key	3	\$ 26.28	\$ 78.84
Receiver SSB, Racal	2	\$ 686.00	\$ 1,372.00
Collins Transceiver KWM-2A	1		\$ 1,062.50
Linear Amplifier, Collins 30-S-1	1		\$ 1,322.60
Console w/speaker, Collins 312B-4	1		\$ 165.75
Generator, 15 KVA	1		\$ 2,030.00
Transformer, 3-4 wire	1		\$ 195.00
Voltmobile Autotransformer	1		\$ 347.20
Transformer, 500 Watt	1		\$ 19.00
Speech & Telegraph Shelf	2	\$ 1,573.00	\$ 3,146.00
Freq. Shift Tone Conv. Shelf	2	\$ 354.00	\$ 708.00
Freq. Shift Tone Converters	13	\$ 389.00	\$ 5,057.00
Freq. Shift Tone Keyer Shelf	1		\$ 3,245.00
Freq. Shift Tone Keyers	13	(included in price of freq. shift Tone Keyer Shelf)	
Electronic Freq. Meter	1		\$ 295.00
Line Battery Power Supply	2	\$ 348.00	\$ 696.00
Antenna Matching Unit, Racal	1		\$ 336.00
Cabinet, Par Metal 6724	2	\$ 224.18	\$ 448.36
Cabinet TMC Rack, 61"	1		\$ 318.75
Cabinet, Northern Rack	2	\$ 276.25	\$ 552.50
4-Wire Terminating Set	1		\$ 143.36
Typewriter, Telegraphic, Olivetti	2	\$ 136.66	\$ 273.32
Clock, Chelsea	2	\$ 50.00	\$ 100.00
Time Recorder, Rapidprint	2	\$ 148.50	\$ 297.00
Time Recorder, IBM	2	\$ 100.00	\$ 200.00
Distribution Stamp, Rapidprint	1		\$ 217.50
Electric Stamp	1		\$ 101.50
Adding Machine, Addo	1		\$ 268.00
Forward			\$212,560.41



<u>Description</u>	<u>Qty.</u>	<u>Unit Price.</u>	<u>Total Price</u>
Brought Forward			\$212,560.41
Table, Teletype Equipment	2	\$ 400.00	\$ 800.00
Table, CW Equipment (2-piece)	1		\$ 336.00
Table, CW Equipment	1		\$ 326.56
Table, small, w/casters	1		\$ 31.50
Antenna Masts, 40'	4	\$ 75.00	\$ 300.00
Collins, Transceivers, KWM-2A	6	\$ 1,062.50	\$ 6,375.00
Linear Amplifier, Collins 30-S-1	3	\$ 1,322.60	\$ 3,967.80
Generators, 2.5 KVA	6	\$ 300.00	\$ 1,800.00
Antenna Masts	12	\$ 60.00	\$ 720.00
Coupling Transformers	6	\$ 336.00	\$ 2,016.00
Typewriters, Telegraphic, Portable	2	\$ 84.00	\$ 168.00
Typewriters, Telegraphic, Standard	2	\$ 136.66	\$ 273.32
Vibroplex Keys	6	\$ 26.28	\$ 157.68
Clock	6	\$ 82.00	\$ 492.00
Tool Boxes, plus Tools	6	\$ 200.00	\$ 1,200.00

Total \$231,524.27

Running Spares for above items

\$ 25,000.00

Grand Total

\$256,524.27

Leopoldville

21st April 1964.



File

CIVOPS-703/64

18 April 1964

TO : Mr. R. Polgar, Acting Chief Administrative Officer

FROM : John M. Saunders, Deputy Chief Administrative Officer (Civilian Operations)

SUBJECT : Radio Communications

1. Thank you for sending me the copy of Field Service Cable 1406 of 18 April. I should like to confirm the arrangements so far worked out in discussions with you and Messrs. Hanson, Brinkman and others regarding radio communications within the Congo for the purposes of the Civilian Operations programme.

2. The aim of the Civilian Operations programme is to use public communications facilities as fully as possible and only to provide our own facilities to the extent that a public service is not available. The I.T.U. team is now working with the Government to complete the telex network which, when finished, will cover five of the six towns where we have field offices, plus Leopoldville. The first link between Leopoldville and Stanleyville was opened this week. It is by no means clear how long it will take to complete the network so that a normal telex service will be available to U.N. but I have already arranged for a formal approach to the Minister of PTT for the provision of telex units in each of the five field stations (except for Albertville) and at headquarters.

3. In these circumstances there may be a period of uncertain duration but which I hope can be measured in terms of not more than 3 to 4 months when there will be partial public facilities coverage of our requirements but where we shall need to have some facilities of our own to meet minimum regular operating requirements. The arrangements described below are not designed to meet this requirement but may be capable of handling our most urgent operational messages.



4. It is our considered view that to meet emergency requirements where the safety of staff may be involved, we must have a minimum system of communication entirely under Civilian Operations control. The plan to use six Collins transceivers in each of the field stations plus amplifiers in four of those field stations, and one Collins transceiver at headquarters in Leopoldville is outlined in Mr. Brinkman's memorandum of 11 March to Mr. Osorio-Tafall and in his memorandum of 2 April to the Chief of General Services. I shall supply you with a detailed list of our equipment, including spares, and shall be grateful if you will obtain the approval of Field Service headquarters to the transfer of such equipment to Civilian Operations at a nominal sum in Congolese francs as provided in paragraph 11 of the Civilian Operations Administrative Budget for 1964.

5. The first test of the plan is now taking place. A field officer has gone to Bukavu, which is the most extreme range from Leopoldville, with a Collins transceiver and amplifier and probably in the course of the next week we shall find out whether there are any major problems of operation not already foreseen. The difficulty in settling at such short notice on the exact number of Field Service radio operators to be retained arose from the fact that we were not clear how many of the existing Civilian Operations Administrative Assistants in the field could be trained to operate the sets for the interim regular communications purposes described above. For emergency communications purposes, I have already provisional agreement from I.T.U., I.C.A.O. and W.M.O. Chiefs of Mission, who would put at our disposal qualified technical assistance experts who could operate the sets in times of difficulty. Very shortly I shall be able to give you an exact answer on the number of Field Service radio operators needed and shall, of course, be ready to charge to the Administrative Budget from 1 May whichever operators are retained.

6. I should like to emphasise that this plan for communications is the basis for our parallel discussions on air communications and on security in general which now have the attention of the Officer-in-Charge and the Secretary-General's Office. You may wish to draw the attention of Field Service headquarters to these wider aspects of the plan for radio communications.

7. I shall write separately, as soon as I have had discussions with the technical staff concerned, on the question of communications between Leopoldville and New York which is mentioned in the last paragraph of Field Service cable 1406 of 18 April 1964.

cc: Mr. Osorio-Tafall  
Mr. Gilpin ✓  
Mr. Manson  
Mr. Brooks



CIVOPS-705/64

18 April 1964

TO : Mr. D. Hansen, Chief of General Services  
FROM : John M. Saunders, Deputy Chief Administrative  
Officer, Civilian Operations  
SUBJECT : Radio Communications Staff and Equipment

.....

Attached are copies of -

- (a) Field Service cable 1406 of 18 April to Mr. Polgar.
- (b) My memorandum of today's date to Mr. Polgar.

I shall be grateful if you will let me have two copies of the complete list of equipment required for the communications plan which we have discussed, based upon the use of the Collins transceivers and amplifiers. I shall then make a formal request to Mr. Polgar that the equipment be turned over to Civilian Operations at a nominal cost in Congolese francs.

We should also meet within the next two days to formulate final answers to the questions raised in the cable regarding:

- (a) exactly which FOS radio operators should be retained on Civilian Operations staff from 1 May;
- (b) facilities for communication with New York, since these are utilised by U.N. offices in other countries, as well as by Civilian Operations and ONUC.

cc: Mr. Gilpin ✓  
Mr. Polgar  
Mr. Cooper  
Mr. Pichler  
Mr. Cacouris



262

RESTRICTED

No. 2390-5/CSO

Chief Signal Officer  
HQ ONUC, LEOPOLDVILLE

16 April 1964

OPERATION - "BINGO"

1. Appendix 'D' to Warning Order - OPERATION BINGO dated 14 Mar 64 is attached.

(J A DEXTRAZE)

Brigadier  
for Chief of Staff

Distribution:-

Officer in Charge ONUC	- 5 Copies	EME Wksp No 1	- 1 Copy
Chief Civilian Operations	- 2 "	ONUC Provost	- 1 "
Chief Adm Officer	- 2 "	HQ Pak Contin-	
Force Commander	- 1 Copy	gent	- 1 "
Chief of Staff	- 1 "	Canadian LO	- 1 "
Air Commander	- 2 Copies	Danish LO	- 1 "
Chief Mil Info	- 2 "	Ethiopian LO	- 1 "
Chief Mil Pers	- 1 Copy	Indian LO	- 1 "
Chief Log Offr	- 1 "	Irish LO	- 1 "
Chief Sig Offr	- 1 "	Nigerian LO	- 1 "
Chief Med Offr	- 1 "	Norwegian LO	- 1 "
HQ Commandant	- 1 "	Swedish LO	- 1 "
Provost Marshal	- 1 "	Brazilian LO	- 1 "
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OC Sector ELI/JAD	- 5 "		
OC Sector KOLWIZI	- 2 "		
1st Bn NA	- 1 Copy		
Det 365 Coy ASC (Sup)LEO	- 1 "		
789 Pak Indep Coy ASC(GT)	- 1 "		
4 Pak Indep Ord Fd Coy	- 1 "		
EME Wksp No 4	- 1 "		
MC Team	- 1 "		
57 Cdn Sig Unit	- 1 "		
UN Air Tpt Base	- 1 "		
ONUC Med Sup Depot	- 1 "		

RESTRICTED



RESTRICTED

Appendix 'D'  
to Warning Order  
dated 14 Mar 64.

OPERATION "BINGO"

COMMUNICATIONS

GENERAL

1. During the withdrawal the principle will be that communication from Sector HQ to HQ ONUC will be maintained until within not less than one hour before departure of the last repatriating troops.
2. The Canadian Signal Detachment at Sector HQ will close as late as possible and in any case not earlier than 24 hours before departure of the last flight to LEOPOLDVILLE. Communication to HQ ONUC will be maintained from then on by single side band radio operated by Swedish operators.
3. After the Canadian Signal Detachment closes only messages dealing directly with the repatriation and the final flight bringing attached personnel to LEOPOLDVILLE will be passed by single sideband radio.
4. Separate instructions on the disposal of single sideband radio equipment will be issued later.

SECTOR LULUABOURG

5. a. Cdn Sig Det will close not before 24 hrs in advance of final flight to LEOPOLDVILLE.
- b. Single sideband radio will close not before one hour in advance of final flight to LEOPOLDVILLE.

SECTOR KOLWEZI

6. a. Cdn Sig det will close not before 24 hours in advance of the final flight to LEOPOLDVILLE.
- b. Single sideband will close not before one hour in advance of unit road movement to ELISABETHVILLE.

SECTOR ELISABETHVILLE

7. a. Cdn Sig Det will close not before 24 hours in advance of final flight to LEOPOLDVILLE.
- b. Single sideband radio will close not before one hour in advance of final flight to LEOPOLDVILLE.



CIVOPS-105/64

18 April 1964

TO : Mr. D. Hanson, Chief of General Services  
 FROM : John M. Saunders, Deputy Chief Administrative  
 Officer, Civilian Operations  
 SUBJECT : Radio Communications Staff and Equipment

\*\*\*\*\*  
 Attached are copies of -

- (a) Field Service cable 1406 of 18 April to Mr. Polgar.
- (b) My memorandum of today's date to Mr. Polgar.

I shall be grateful if you will let me have two copies of the complete list of equipment required for the communications plan which we have discussed, based upon the use of the Collins transceivers and amplifiers. I shall then make a formal request to Mr. Polgar that the equipment be turned over to Civilian Operations at a nominal cost in Congolese francs.

We should also meet within the next two days to formulate final answers to the questions raised in the cable regarding:

- (a) exactly which FOS radio operators should be retained on Civilian Operations staff from 1 May;
- (b) facilities for communication with New York, since these are utilized by U.N. offices in other countries, as well as by Civilian Operations and ONUC.

cc: Mr. Gilpin  
 Mr. Polgar  
 Mr. Cooper  
 Mr. Fichler  
 Mr. Cascuris



CIVOPS-703/64

18 April 1964

TO : Mr. R. Folger, Acting Chief Administrative Officer

FROM : John H. Saunders, Deputy Chief Administrative Officer (Civilian Operations)

SUBJECT : Radio Communications

1. Thank you for sending me the copy of Field Service Cable 1406 of 18 April. I should like to confirm the arrangements so far worked out in discussions with you and Messrs. Hancock, Brinkman and others regarding radio communications within the Congo for the purposes of the Civilian Operations programme.

2. The aim of the Civilian Operations programme is to use public communications facilities as fully as possible and only to provide our own facilities to the extent that a public service is not available. The I.C.U. team is now working with the Government to complete the telegraph network which, when finished, will cover five of the six towns where we have field offices, plus Leopoldville. The first link between Leopoldville and Stanleyville was opened this week. It is by no means clear how long it will take to complete the network so that a normal telegraph service will be available to U.N. but I have already arranged for a formal approach to the Minister of PTT for the provision of telegraph units in each of the five field stations (except for Albertville) and at headquarters.

3. In these circumstances there may be a period of uncertain duration but which I hope can be measured in terms of not more than 3 to 4 months when there will be partial public facilities coverage of our requirements but where we shall need to have some facilities of our own to meet minimum regular operating requirements. The arrangements described below are not designed to meet this requirement but may be capable of handling our most urgent operational messages.

..//..



4. It is our considered view that to meet emergency requirements where the safety of staff may be involved, we must have a minimum system of communication entirely under Civilian Operations control. The plan to use six Collins transceivers in each of the field stations plus amplifiers in four of these field stations, and one Collins transceiver at headquarters in Leopoldville is outlined in Mr. Brinkman's memorandum of 11 March to Mr. Gerio-Rafall and in his memorandum of 2 April to the Chief of General Services. I shall supply you with a detailed list of our equipment, including spares, and shall be grateful if you will obtain the approval of Field Service Headquarters to the transfer of such equipment to Civilian Operations at a nominal sum in Congolese francs as provided in paragraph 11 of the Civilian Operations Administrative Budget for 1964.

5. The first test of the plan is now taking place. A field officer has gone to Adavu, which is the most extreme range from Leopoldville, with a Collins transceiver and amplifier and probably in the course of the next week we shall find out whether there are any major problems of operation not already foreseen. The difficulty in settling at such short notice on the exact number of Field Service radio operators to be retained arose from the fact that we were not clear how many of the existing Civilian Operations Administrative Assistants in the field could be trained to operate the sets for the interim regular communications purposes described above. For emergency communications purposes, I have already provisional agreement from I.T.U., I.C.A.O. and W.R.O. Chiefs of Mission, who would put at our disposal qualified technical assistance experts who could operate the sets in times of difficulty. Very shortly I shall be able to give you an exact answer on the number of Field Service radio operators needed and shall, of course, be ready to charge to the Administrative Budget from 1 May whichever operators are retained.

6. I should like to emphasize that this plan for communications is the basis for our parallel discussions on air communications and on security in general which now have the attention of the Officer-in-Charge and the Secretary-General's Office. You may wish to draw the attention of Field Service Headquarters to these wider aspects of the plan for radio communications.

7. I shall write separately, as soon as I have had discussions with the technical staff concerned, on the question of communications between Leopoldville and New York which is mentioned in the last paragraph of Field Service cable 1406 of 18 April 1964.

cc: Mr. Gerio-Rafall  
Mr. Gilpin  
Mr. Hanson  
Mr. Brooks



ING FILE

ce quickly)

632	MR PENNACHIO	631
614	MR HENEIDI	613
514	MISS DECAUX	620
512	MISS YANNAKI	641
521		



OPERATION DES NATIONS UNIES  
AU CONGO



INTER-OFFICE MEMORANDUM

APR 16 1964

ADM 270

RP/dn

UNITED NATIONS OPERATION  
IN THE CONGO

Completed  
Reviewed  
☐ Action Required  
INITIALS

16 April 1964

*File Op 16/4*

TO: Mr John Saunders, DCAO, Civilian Operations  
FROM: Roger Polgar, Acting Chief Administrative Officer  
SUBJECT: Communications

*[Signature]*

Kindly refer to your draft, dated 10 April 1964, on the above subject.

You sent this draft to me for discussion but I note your recommendation, page 3, para. 9: "Three points should be clearly confirmed before Civilian Operations agrees to the release of the Field Service Officers now in Leopoldville who are trained in radio communications work:". Since the three points raised fall within the responsibility of Civilian Operations, I am not in a position to help you in reaching a decision.

However, I have been informed that on Tuesday, 14 April 1964, a telecommunication service for relation with field stations was .....

..... inaugurated, see attachment number 1, and on the same day a message was exchanged directly from ONUC Stanleyville to ONUC Léopoldville .....

..... by telex, see attachment number 2. It is expected that in the near future similar direct communications by telex will be available between all field stations, except Albertville, and Headquarters, Léopoldville; thus all regular communications will be very well taken care of and your only remaining problem will be emergency communications in case of trouble.



REPUBLIQUE DU CONGO  
MINISTÈRE DES P.T.T.  
CABINET DU MINISTRE  
Tél 3380 - 5605

1

INVITATION

Le Ministre des Postes, Téléphones et  
Télégraphes du Gouvernement Central, prie .....

..... *M. D. C. Suard* .....

de lui faire l'honneur d'assister à la cérémonie inau-  
gurale du Centre Inter-Provincial des Télécommunications  
pour la Radiodiffusion situé sur la route de N'Djili,  
qui aura lieu le mardi 14 avril 1964 à 11 heures pré-  
cises.-



2

ML

vn  
onuc Leovs  
onuc Leos  
onuc Leods  
onuc Leos  
onuc Leos  
onuc Leos  
onuc Leos  
onuc stan

2007.11.11

quijano caballero from meixner stop subscriber onuc stan installation  
completed stop call number 15 stop receipt acknowledged teletype  
but missing additional reperforator, tapetransmitter and remote  
control unit stop these items are temporary provided by telecon  
stan and will be returned as soon as we receive same from you stop  
please advise time of seen time of transmission of messages.



## UNITED NATIONS — NATIONS UNIES

INDICATE  
PRIORITY

L T F	S V C Service	F F F F F Routine	S S S S S Priority	P R I O R I T E N A T I O N S
-------	------------------	----------------------	-----------------------	----------------------------------

Priorité Nations traffic  
is strictly limited.

adm 220

N R

(Address es)

ONUC BUKAVU

(TEXT &amp; SIGNATURE)

insert prefix &amp;/or number as required

USE DOUBLE SPACING.

TAB/155

KUNITZBERGER FROM SAUNDERS. FURTHER MY 149 MR. CHRISTODOULOU  
WILL ARRIVE 23 APRIL VIA AIR CONGO, ETA 18.00 HOURS. HE WILL  
BE ACCOMPANIED BY TWELVE HUNDRED POUNDS OF EQUIPMENT. PLEASE  
MEET AND PROVIDE TRANSPORTATION FOR HIMSELF AND EQUIPMENT.

C. 81471

T. O. R.

T. O. D.

BY:

EC/JC

Drafted by :

Authorized :

Date :

E. Cacouris

John Saunders

16.4.1964



# UNITED NATIONS - NATIONS UNIES

ADM 220

INDICATE  
PRIORITY

L T F		S V C Service	F F F F F Routine	S S S S S Priority	P R I O R I T E N A T I O N S
-------	--	------------------	----------------------	-----------------------	----------------------------------

Priorité Nations traffic  
is strictly limited.

N R

(Address es)

ONUC, BUKAVU

(TEXT & SIGNATURE)

insert prefix &/or number as required

USE DOUBLE SPACING

TAB/149

KUNITZBERGER FROM SAUNDERS. ARE PLANNING TEST COLLINS TRANSMITTER  
RECEIVERS. RADIO OFFICER WILL BE ARRIVING BUKAVU WITH APPARATUS AND  
INSTRUCTIONS REGARDING PURPOSE TESTING 22 APRIL. WILL ADVISE NAME  
AND FLIGHT NUMBER

*cc: Messrs. Mauser  
Brinkman*

1250 x 100 - 11 - 63

T. O. R.

T. O. D.

BY:

*EC/amp*

Drafted by :

Authorized :

Date :

*E. Caceuris*

*J.M. Saunders*

*14 April 1964*



MR. ZAHAWI

612

MISS HASBANI

512

MRS. GASCOIGNE

642

MR. PERRIN

620

REGISTRY

522



# ROUTING SLIP

TO

*Mr. Samuels*

APPROVAL	NOTE AND RETURN
SEE ME, PLEASE	YOUR COMMENTS
YOUR SIGNATURE	YOUR INFORMATION
NOTE AND FILE	FOR ACTION

*File*

*Q*

DATE

FROM

*Q*



STAN TELEX 1

*Mr. Manson*  
*could you check what terms*  
*this means in technical advise*  
*because we might chiefs etc*  
*all the agency new service*  
*J. Saunders*  
*14/14*

MESSAGE FOR MR QUIJANO CABALLERO CHIEF ITU LEO / ROYAL

FROM MEIXNER STAN STP

*adm 220*

INSTALLATION SUBSCRIBER (U E E E) ONUC STAN TERMINATED STP

CALL NUMBER 15 RPT 15 STP

REGARDS MEIXNER \*\*\*\*\*

*PRIORITY.*

*Mr. Saunders*  
*Vorta ITU in action!*  
*Regds. StC*

CFM PLs 1\*

OK MERCI

MR J. SAUNDERS *from Duanlo.*

*This means TELEX*  
*installed in ONUC office*  
*"STAN". The number is*  
*Stan 15. Not necessary to*  
*advise agency Chiefs since*  
*this number for Comms LEO.*



Source: 62

9th April

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Mr. R. Polgar, Acting Chief Administrative Officer  
 G. Brinkman, Chief Communications Officer  
Radio Perseus

Please refer to Mr. Lansky's letter of 27th March 1964 addressed to Mr. Seward.

In Field Service's original request it was explained that for short term missions such as Yemen and Cyprus, it was impossible to recruit additional radio operators and we were requested to look into the possibility of sparing some of our operators. At that date the radio operators in Leopoldville had to man the following posts:

- a) New York circuit (1000 - 0200 hours GMT)
- b) Addis Ababa circuit (0600 - 1800 hours GMT)
- c) PTF Telax (0600 - 1800 hours GMT)
- d) Internal Radio Telephony net (0700-1800 hours GMT)
- e) OMUG Aircraft radio coverage (upon request plus the regular Yukon flights)
- f) Cable Distribution (0600 - 1900 hours GMT)
- g) Special Message Unit (24-hours coverage)

From the attached copies of the duty rosters covering the period 30th March through 6th April 1964 it will be seen that the duties are overlapping in such a way as to cover the busiest period (0600 - 2000 hours local time) by three radio operators while outside this period the duties are covered by two or one radio operator only. The average number of words per month on the circuits mentioned under a) b) c) and g) are 300,000, 120,000, 70,000 and 40,000 words respectively. It should be realized that cables received from a teleprinter circuit (New York) and to be sent via a Morse circuit (Addis Ababa) or vice versa requires the additional labour of reperforation etc., which actually doubles the number of words on the Addis Ababa circuit to 140,000.

From the specimen duty roster based on 5 radio operators (after closing the Addis Ababa circuit) it will be noted that the period 1100 - 2000 hours local time is covered by two radio operators only, while outside this period one radio operator has to take care of all traffic on hand, including the cable distribution and the cipher messages.



exact personnel requirements.  
In early and final decision would be most helpful to establish  
with New York after that date, using field service personnel.  
The to be open internal radio lines and to continue the radio line  
effect from July 1964, there appears to exist serious plans by  
that while the radio communications will cease to operate with  
two of our personnel. This situation is aggravated by the fact  
to be caused by extensions of six weeks or less recently ordered as  
the demand for personnel for offshore and down time purposes seems  
great on June 30th. Looking at the extension dates of contracts and  
short term contracts of which one has expired this month and the  
situation to soon continuing. A great number of personnel have  
also to be recognized that since January 1964 the personnel

operating by the radio units.  
That there is a serious situation with respect to personnel of radio  
personnel of radio units further to 13 men. It is extremely hard  
personnel even since up to our present number of 20 men with a  
extremely critical with a total of 42 men, and have been reducing  
No result that in 1963 we were operating 15 internal and

the critical New York-Philadelphia-Victoria route.  
Personnel with radio units and also with internal communications of radio  
be negative. The critical to the critical New York-Geneva-  
closing down this circuit as the circuit is operating on personnel with  
radio units on both sides. For this reason we have suggested  
most probably need an additional radio operator to run the radio  
circuit. It will be considered as a radio reduction, as personnel will  
by closing down the radio units. The latter should  
by the operators, while an additional operator could be added  
reduced for an efficient operation we will be able to reduce  
reorganizing and reducing the personnel beyond the minimum number  
from the above-mentioned there is still to be understood that by

for testing, critical positions etc., we reduced.  
of 5 hours for radio personnel will be used as compensatory time  
as against the critical 40 hours working week. The discrepancy  
personnel and 41 hours for the radio distribution center personnel  
week of the proposed day roster to 35 hours for the radio  
At this point we observe that the average working hours per

This expected critical delay was accepted as a calculated risk.  
radio operators as possible as the disposal of radio personnel.  
It is found that the result of a radio circuit is not as much  
in critical to maintain. This was explained in detail to  
that by reducing the number of radio operators to three, a delay  
the closing of the radio units. It is seen that the reduction  
of the radio to 5 radio operators only and not brought about by  
by comparing the daily rosters it will be seen that the reduction