

# 附 属 资 料



1. 協議議事録

1-1 協議議事録(基本設計調査時)

MINUTES OF DISCUSSIONS  
ON  
THE BASIC DESIGN STUDY  
OF  
THE PUBLIC EMERGENCY CALL CENTRE ( COMMUNICATION SYSTEM )  
MODERNIZATION PROJECT  
IN  
THE KINGDOM OF THAILAND

In response to the request by the Government of the Kingdom of Thailand, the Government of Japan decided to conduct a basic design study for the Public Emergency Call Centre ( Communication System ) Modernization Project (hereinafter referred to as "the Project"), and entrusted the study to the Japan International Cooperation Agency ( JICA ). JICA sent the Basic Design Study Team headed by Mr. MASA AKI KATO H, DIRECTOR, COMMUNICATIONS TECHNICAL RESEARCH OFFICE, COMMUNICATIONS BUREAU, NATIONAL POLICE AGENCY, from January 25th to February 13th, 1988.

The Team had a series of discussions on the Project with officials of the Government of Thailand, and conducted a field survey in Bangkok metropolitan area.

As a result of the study both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined toward the realization of the Project.

Bangkok, February, 4th, 1988.

Masaaki Kato H.

MASA AKI KATO H

Leader

Basic Design Study Team  
Japan International  
Cooperation Agency (JICA)

Pol. Maj. Gen. Paithoon Waichanya

Pol. Maj. Gen. PAITHOON WAICHANYA

Commander

Police Communication Division  
Royal Thai Police Department  
Ministry of Interior

中村俊男

TOSHIO NAKAMURA

Coodinator

Basic Design Study Team  
JICA

Niroth

Pol. Maj. Gen. NIROTH VECHASILP

Assistant Commissioner

Metropolitan Police Bureau

## ATTACHMENT

### 1. Title of the Project

The title of the Project is " The Public Emergency Call Centre ( Communication system ) Modernization Project."

### 2. The Objective of the Project

(1) The objective of the Project is to establish the new Public Emergency Call System, and to improve the existing 191 operation by maintaining the public in close contact with the police through 24-hours emergency telephone call, and then to assure maximum protection of life and property of the people.

(2) The new Public Emergency Call System is to consist of following three systems; Public Emergency Call System ( 191 call system ), Radio Communication System, and Facsimile System.

(3) Thai Side stated that the new Public Emergency Call System will never be used in riot control operation.

### 3. Executing Agency for the Project

(1) Administrative Agency for the Project is the Royal Thai Police Department of Ministry of Interior.

(2) Operating Agency for the new Public Emergency Call System after its introduction is the Metropolitan Police Bureau.

### 4. Project Site

(1) The equipment for the new System is to be installed in the following buildings; the Royal Thai Police Department Building, the Bangkok Metropolitan Police Bureau Building, the Baiyoke Tower, and police stations. These sites are shown in Annex 1.

Thai Side stated that the Baiyoke Tower for the site is under negotiation, in case that the negotiation is in failure, the other site will be set by the responsibility of Thai Side. The site for the main relay station is to be clarified up to 29th, February, 1988.

- (2) The proposed sites for the specific equipment is shown in Annex 2.
5. The major equipment for the Project requested by the Government of Thailand are listed in Annex 2.
6. The Team will convey to the Government of Japan the desire of the Government of Thailand that the Government of Japan takes necessary measures to cooperate in implementing the Project and provide necessary equipment within the scope of Japan's Grant Aid Program.
7. The Thai Side has understood the system of Japan's Grant Aid and necessity of consulting services of a Japanese consulting firm for the implementation of the Project.
8. The Government of Thailand will undertake to provide the necessary measures as listed in Annex 3 on condition that the Grant Aid by the Government of Japan is extended to the Project.
9. The Government of Thailand will undertake to provide the necessary budget and personnel for the proper and effective operation and maintenance of equipment provided under the Grant Aid.



ANNEX 2 MAJOR EQUIPMENT REQUESTED FOR THE PROJECT

1. The major equipment for the Project

System	Equipment	Quantity	Proposed Site	
1. Public Emergency Call System (191 Call System)	1. Map display	11 set	Bangkok Metropolitan Police Bureau	
	2. Emergency call receiving console	6		
	3. Radio patrol dispatching console	3		
	4. Supervisory console	1		
	5. Emergency operation control console	1		
	6. Character display	11		
	7. Fixed radio equipment	5		
	8. Multi-channel logging recorder	1		
	9. Emergency power supply	1		
	10. Police activity operation display	1		
2. Radio Communication system	Relay Station ( Main )		Baiyoke Tower	
	1. Aerial equipment	1 set		
	2. Relay equipment	5		
	3. Control and monitor equipment	1		
	4. Emergency power supply	1		
	Relay Station ( Back-up )			
	1. Aerial equipment	1 set		
	2. Relay equipment	5		
	3. Control and monitor equipment	1		
	4. Emergency power supply	1		
	Fixed radio equipment	Total 80 sets		
		7		Bangkok Metropolitan Police Bureau
		1		NBMD
	1	SIMD		
	1	TMD		

System	Equipment	Quantity	proposed Site
		1	PATUMWAN
		26	Police Station (N) one each
		16	Police Station (S) one each
		27	Police Station (T) one each
	Mobile radio equipment	Total 250 sets	
		112	191 Patrole car
		52	Police Station (N) two each
		32	Police Station (S) two each
		54	Police Station (T) two each
	Hand-held radio	Total 220 sets	
		82	Bangkok Metropolitan Police Bureau Bld.
		52	Police Station (N) two each
		32	Police Station (S) two each
		54	Police Station (T) two each
3. Facsimile System	Facsimile	Total 76 sets	
		3	Bangkok Metropolitan Police Bureau Bld.
		26	NBMD one each
		16	SBMD one each
		27	TMD one each
		3	HEADQUARTER ( NBMD, SBMD, TMD )
		1	PATUMWAN

Note: (1) Quantities of the identical equipment can be reduced to adequate ones within the budget to be allocated for the Project.

(2) The necessary and proper accessories, attachments and spare parts are to be included in the equipment.

(3) The proper training services for operations is to be included in the equipment if necessary.

(4) The installation works of the equipment is to be borne by the Japan's Grant Aid.

(5) Among the above equipment, Multi-channel logging recorder and Facsimile are lower priority.

## 2. Mobile Radio System

(1) Thai Side stated that the new radio communication system is expected to be provided such five radio communication systems as might be necessary for four divisions radio systems of MPSOD, NQMD, SBMD, TMD and one common channel radio system, and the electric waves for the above new radio communication system is to be VHF bands waves as follows. This VHF band waves system is to be used for the Project, and the UHF band waves system is to be used for the purpose of riot control.

### Assigned Frequencies:

166.550 MHz	171.550 MHz
166.600	171.600
166.850	171.850
166.900	171.900
166.950	171.950

(2) Thai Side stated that the digital type radio communication system is better, but the analogue type radio communication system is also acceptable when the analogue ones is recommended as the result of the comparative study between digital ones and analogue ones.

ANNEX 3 MESURES TO BE TAKEN BY THAI SIDE

1. To remodel the present 191 call centre room for the installation of the new system, if necessary.
2. To prepare the facilities of electricity, sound proofing, lighting, and other incidentals before commencement of installation work, if necessary.
3. To load the radio communication equipment to vehicles .
4. To maintain and use properly and effectively the equipment purchased by the Grant.
5. To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement.
6. To ensure prompt unloading, tax exemption, customs clearance at port of disembarkation in Thailand and prompt internal transportation therein of the products purchased under the Grant.
7. To exempt Japanese nationals from custom duties, internal taxes and other fiscal levies which may be imposed in Thailand with respect to the supply of the products and services under the verified contracts.
8. To accord Japanese nationals whose services may be required in connection with the supply for the products and the services under the verified contracts such facilities for the performance of their work.
9. To provide general furniture required for the administrative purpose.
10. To bear all the expenses other than those to be borne by the necessary for the Project.

1-2. 協議議事録(ドラフトレポート説明時)

MINUTES OF DISCUSSIONS  
ON  
THE BASIC DESIGN STUDY  
OF  
THE PUBLIC EMERGENCY CALL CENTRE ( COMMUNICATION SYSTEM )  
MODERNIZATION PROJECT  
IN  
THE KINGDOM OF THAILAND

In response to the request of the Government of the Kingdom of Thailand for Grant Aid for the Public Emergency Call Centre ( Communication System ) Modernization Project ( hereinafter referred to as " The Project " ), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency ( JICA ).

JICA sent to the basic design study team headed by Mr. MASA AKI KATO H, Director, Communications Technical Reserch Office, Communications Bureau, National Police Agency, from January 25 to February 13, 1988.

As a result of the study, JICA prepared a draft report and dispatched a team headed by Mr. MASA AKI KATO H, Director, Chiba Prefectural Communications Department, Kanto Regional Police Bureau, to explain and discuss it from April 20 to April 27, 1988.

Both parties had a series of discussions on the draft report and agreed to recommend their respective Governments that major points of understandings reached between them, attached herewith, should be examined towards the realization of the Project.

Bangkok, April 26, 1988

Masaaki Kato H

MASA AKI KATO H

Leader

Basic Design Study Team  
Japan International  
Cooperation Agency ( JICA )

Pol. Maj. Gen. Paitoon Waichanya

Pol. Maj. Gen. PAITON WAICHANYA

Commander

Police Communications Division  
Royal Thai Police Department  
Ministry of Interior

中村 俊男

TOSHIO NAKAMURA

Coordinator

Basic Design Study Team  
( JICA )

Niroth

Pol. Maj. Gen. NIROTH VECHASILP

Assistant Commissioner

Metropolitan Police Bureau

ATTACHMENT

1. The Thai side agreed in principle on the basic design proposed in the Draft Final Report with minor alterations, which will be incorporated in the Final Report.
2. The Thai side ensured the provision of the necessary budget for the works such as the remodeling of the 191 Centre and other sites, maintenance and operation expenses for the new communication system in the Project.
3. The Japanese side stated the necessity of using the Japanese consulting firm for the Project implementation including the detailed design and supervision of the remodeling works of the 191 Centre and other sites. Thai side agreed on the use of the Japanese consulting firm as stated by Japanese side.
4. The Thai side requested to provide the measuring/test equipment as follows:
  - (1) Test equipment for the 191 emergency call system ( higher priority )
  - (2) Test equipment for the radio communication system ( lower priority ).

The Japanese side stated that the request for the measuring/test equipment would be examined whether to provide or not. If the budget is sufficient, the measuring/test equipment will be included in the Project .

5. The Final Report ( 10 copies in English ) will be submitted to the Thai Side up to the end of June, 1988.

2. 調査団の構成

2-1 調査団の構成（基本設計調査時）

氏 名	担 当	経 歴
加 藤 正 昭	調査団長	警察庁通信局技術調査官
田 村 正 行	市民緊急通報センター システム	東京都警察通信部無線通信課 保全所係長
中 村 俊 男	計画管理	JICA無償資金協力計画 調査部基本設計調査第二課
北 川 昭 生	計画責任者通信計画	保安電子通信技術協会
中 村 敏 朗	システム設計	保安電子通信技術協会
渡 辺 明	機器設計	保安電子通信技術協会
亀 田 好	運用計画	保安電子通信技術協会
川 村 昌 司	機器設計（電力）	保安電子通信技術協会
小 川 穂 積	建築設計	保安電子通信技術協会
松 永 典 昭	積 算	保安電子通信技術協会

2-2 調査団の構成（ドラフトレポート説明時）

氏名	担当	経歴
加藤正昭	調査団長	関東管区警察局 千葉県通信部長
田村正行	市民緊急通報センター システム	警察庁通信局通信運用課 国際通信室企画係長
中村俊男	計画管理	JICA 無償資金協力計画 調査部基本設計調査第二課
北川昭生	計画責任者通信計画	保安電子通信技術協会
中村敏朗	システム設計	保安電子通信技術協会
渡辺明	機器設計	保安電子通信技術協会
小川穂積	建築設計	保安電子通信技術協会

### 3. 調査団の日程

#### 3-1 調査団の日程（基本設計調査時）

昭和63年1月25日～2月13日（20日間）

加藤団長、田村団員、中村団員は1月25日～2月5日（12日間）

日順	月 日	曜日	行 程	調 査 内 容
1	1月25日	月	東京ーバンコク	
2	26日	火	バンコク	在タイ国日本大使館、JICA表敬、打合せ タイ王国警察局長表敬及び協議
3	27日	水	バンコク	タイ王国警察局長表敬及び協議 バンコク首都警察局長表敬及び協議
4	28日	木	バンコク	測定資機材の点検、整備 調査団内調査作業打合せ タイ王国警察局長表敬 バイヨークタワー視察 バンコク首都警察局長191センター視察調査（床強度）
5	29日	金	バンコク	調査用測定資機材の整備 タイ王国警察局長表敬 首都南部警察部およびバンラック警察署、 パトロール・カーセンター視察 191センター視察調査（床強度、建物構造）
6	30日	土	バンコク	団内打合せ、資料整理
7	31日	日	バンコク	団内打合せ、資料整理
8	2月 1日	月	バンコク	バイヨークタワーにおけるバンコク市内移動無線回線試験 191センター視察調査（内装状況） 191センターにおける通報受付件数の測定
9	2日	火	バンコク	191センター視察調査（空調、電源設備） 191センターにおける通報受付件数の測定 バイヨークタワーにおけるバンコク市内移動無線回線試験 ジェットロにおける資料調査 DTECと協議 ミニッツ（案）作成
10	3日	水	バンコク	タイ王国警察局長ミニッツ協議 191センター視察調査（床強度） 191センターにおける通報受付件数の測定 バイヨークタワーにおけるバンコク市内移動無線回線試験
11	4日	木	バンコク	バルサカワン保全センター視察 タイ王国警察局長、協議 ミニッツ署名交換 大使館、JICA報告

日順	月	日	曜日	行 程	調 査 内 容
12		5日	金	バンコクー東京 バンコク	191センター視察調査（機械室、電源室の構造） 191センターにおける通報受付件数の測定 加藤団長、田村、中村各団員帰国
13		6日	土	バンコク	バルサカワンの保全センター視察 191センターにおける通報受付件数の測定 団内打合せ、資料整理
14		7日	日	バンコク	団内打合せ、資料整理
15		8日	月	バンコク	タイ王国警察局、協議（質問事項） 191センター視察調査（機器配置、ケーブル引込）
16		9日	火	バンコク	日系工業会社において事情聴取 団内打合せ、測定データの検討 タイ王国警察局の新庁舎機械室の視察 各サイトの施設図面の作成
17		10日	水	バンコク	電線会社において事情聴取 各サイトの施設図面の作成 タイ王国警察局、協議（機器設備の技術的 事項）
18		11日	木	バンコク	191センターの電話ケーブル状況調査 タイ王国警察局、協議 メモランダム署名 交換 教育公共放送局CH. 11施設建設状況視察
19		12日	金	バンコク	日本人商工会議所において事情訪問 調査結果の団内打合せ
20		13日	土	バンコクー東京	大使館、JICA報告 団員帰国

3-2 調査団の日程（ドラフトレポート説明時）

昭和63年4月20日～4月27日（8日間）

加藤団長は4月23日～4月27日（5日間）

日順	月 日	曜日	行 程	調査内容
1	4月20日	水	東京 バンコク	
2	21日	木	バンコク	在タイ国日本大使館、JICA 表敬・打合せ タイ王国警察局長表敬及び協議 ワグ報告書説明
3	22日	金	バンコク	タイ王国警察局長協議
4	23日	土	バンコク	団内打合せ、資料整理
5	24日	日	バンコク	団内打合せ、資料整理
6	25日	月	バンコク	タイ王国警察局長ワグ報告書説明、協議 各サイト視察 通信部、犯罪記録部（副中継局） ハイテクタワー（主中継局） 191センター
7	26日	火	バンコク	タイ王国警察局長協議 議事録署名交換 調査結果の国内打合せ 大使館、JICA報告

8	27日	水	パソコ 東京	団員帰国
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4. 面談者リスト

NAME	POSITION
1. RTPD関係	
POL. MAJ. GEN. PAITON WAICHANYA	Commander(部長) Police Communications Division
POL. COL. CHUCHART RATTANALIAM	Deputy Chief(部次長) Police Communications Division
POL. COL. VICHIEB BOONSIRI	Superintendent(課長) Police Communications Division
POL. LT. COL. SURAT VIRATHIAN	Deputy Superintendent (課次長) Police Communications Division
POL. LT. COL. SANGCHAI PORNSIWAKUL	Inspector (課長補佐) Police Communications Division
POL. LT. COL. SOMCHAI PATANAKUMJORN	Deputy Superintendent (課次長) Police Communications Division
POL. LT. COL. ARTHIT INTAVENKIN	Inspector of Telephone Section Police Communications Division
POL. CAPT. SUCHART KANGWARNJIT	System Engineer( システム エンジニア) Police Communications Division
PARADA BUMRUNGSOOK	Commander of Financial Division

PARADA CHONURUK	Dupty Chief of Foreign Affair
2. MPB関係	
POL.MAJ.GEN. NIROTH VECHASILP	Assistant Commissioner(局長補佐) Metropolitan Police Bureau
POL.MAJ.GEN. CHAMTOON SVASTI-XUTO	Commander Metropolitan and Sepecial Operation Division
POL.COL. CUOCHAST RATTANALIEP	Deputy Commander(部次長) Metropolitan Police Bureau
POL.LT.COL. SIRIPONG	Project Controller P.S.O.D.General Staff Sub Division
POL.LT.COL. PITAYA	P.S.O.D.Communication Control Sub Division
POL.LT.COL. SUPOT BOONTHRONG	Dupty Superintendent Chief Inspector
POL.LT.COL. CHAWALIT CHOMPUHAVEEP	Patrol and Special Operation Division
POL.LT.COL.	Chief of Maintenance Centre Engineer

SANUT	
POL. CAPT. SOMKID	P.S.O.D. Patrol Sub Division
POL. CAPT. DUSIT SUNGKMEK	Patrol and Special Operation Division
3. 在タイ日本国大使館	
阿部知之	参事官
貝沼孝二	一等書記官
岩橋修	一等書記官
広畑史朗	一等書記官
川野辺寛	二等書記官
4. その他	
高橋正幸	国際協力事業団派遣専門家
SIKRIT HIRANMAS Ph.D, P.E.	Structural Engineer Dept. of Construction Technology, King Mongkut's Institute of Technology (建築関係)
SUNEE JERAWATTANAVONG	Secretary Baiyoke TOWER (建築関係)

## 5. 調査結果データ

- (1) バイヨーク・タワーにおける140～170MHz対の受信入力状況
- (2) 191センターにおける使用周波数(予定を含む)
- (3) バイヨーク・タワー(主中継局)における使用周波数(予定を含む)
- (4) タイ王国警察局通信部(副中継局)における使用周波数(予定を含む)
- (5) 191センターにおける通話時分分布グラフ
- (6) 191センターにおける呼数分布グラフ

(1) バイヨークタワーにおける140～170MHz対の受信入力状況

1/2

周波数(MHz)	受信入力(dbm)	周波数(MHz)	受信入力(dbm)
138.2	-60	152.55	-70
140.2	-55	.6	-45
.4	-60	.75	-32
141.4	-58	.9	-53
142.5	-50	153.05	-47
142.8	-50	.1	-42
143.7	-52	.15	-58
144.8	-55	.2	-40
.95	-65	.3	-40
147.6	-65 (常)	.55	-60
149.2	-60	153.6	-40
.4	-55	.65	-40
.55	-50 (常)	.7	-50
.65	-50	.9	-65
.75	-38	154.1	-45
150.3	-42	.15	-75
.5	-70	.3	-52
.7	-70	.35	-70
151.15	-40	.6	-60
152.1	-55	.8	-50
152.4	-49	.95	-50

注: (常)は常時発射を示す。

周波数(MHZ)	受信入力( d b m)	周波数(MHZ)	受信入力( d b m)
155.2	-60	164.4	-43
.8	-40	.65	-45
.9	-65	.8	-70
.95	-55	165.1	-75
156.65	-70	.95	-45
157.65	-60	168.65	-45 (常)
.7	-40	170.1	-50
158.1	-70	.15	-52
.3	-40	.9	-65
159.75	-58	.95	-55
160.65	-30	171.1	-55
161.8	-70	.25	-60
162.3	-45	.45	-55
.35	-45	.5	-50
.5	-65	.65	-65
.9	-70	175.28	-35 (常)
163.1	-45		
.45	-70		
.6	-50		
.65	-58		
163.85	-45		

(2) 191センターにおける使用周波数(予定を含む)

送信用(MHZ)	備 考	受信用(MHZ)	備 考
142.000	40W 50W	同 左	
154.800	40W 市局	//	
164.450	5W 水道	//	
169.000	40W 電力	//	
171.550	予定波(1)	166.550	予定波(1)
.600	// (2)	.600	// (2)
.850	// (3)	.850	// (3)
.900	// (4)	.900	// (4)
.950	// (5)	.950	// (5)
166.550	予定波(1)	171.550	予定波(1)
.600	// (2)	.600	// (2)
.850	// (3)	.850	// (3)
.900	// (4)	.900	// (4)
.950	// (5)	.950	// (5)
153.150	191方面系	同 左	
153.100	南部 //	//	
153.050	北部 //	//	
153.350	共 通 系	//	
166.650	受令機用	//	

(3) バイヨークタワー（主中継局）における使用周波数（予定を含む）

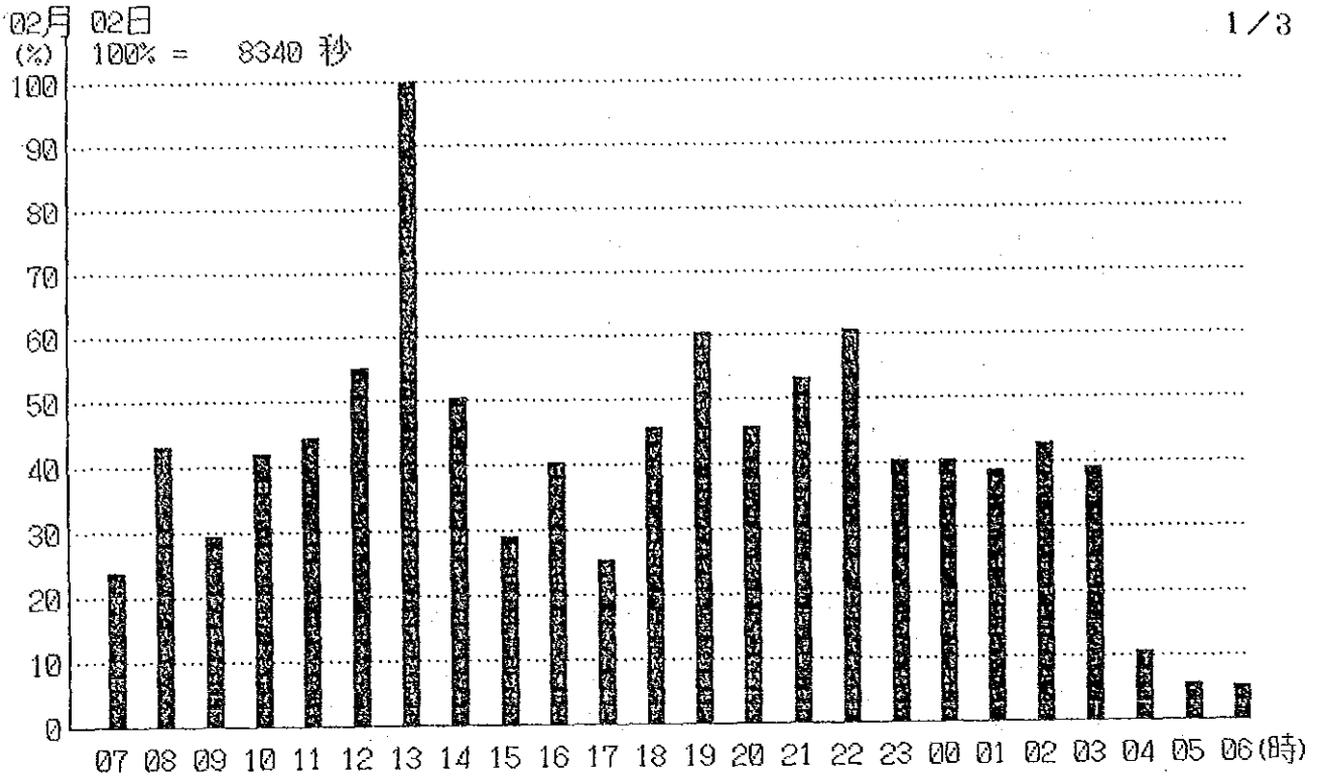
送信用(MHz)	備 考	受信用(MHz)	備 考
171.550	予定波(1)	166.550	予定波(1)
.600	" (2)	.600	" (2)
.850	" (3)	.850	" (3)
.900	" (4)	.900	" (4)
.950	" (5)	.950	" (5)
166.550	予定波(1)	171.550	予定波(1)
.600	" (2)	.600	" (2)
.850	" (3)	.850	" (3)
.900	" (4)	.900	" (4)
.950	" (5)	.950	" (5)

(4) タイ王国警察局通信部(副中継局)における使用周波数  
(予定を含む)

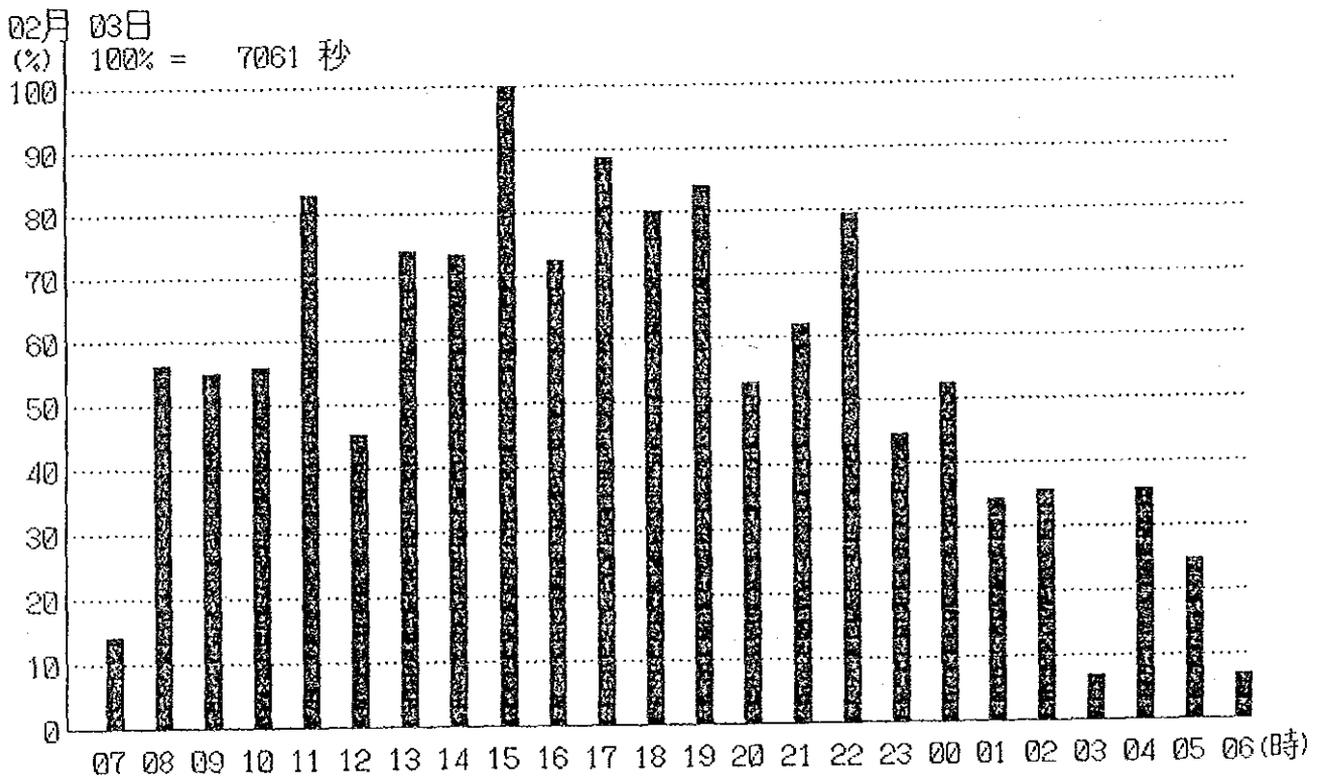
送信用(MHZ)	備 考	受信用(MHZ)	備 考
149.550	90W	同 左	
.700	45W	〃	
152.500	60W	〃	
.550	60W	〃	
.750	375W	〃	
.850	60W	〃	
.925	90W	〃	
171.700	100W	〃	
452.300	90W	〃	
171.550	予定波(1)	166.550	予定波(1)
.600	〃 (2)	.600	〃 (2)
.850	〃 (3)	.850	〃 (3)
.900	〃 (4)	.900	〃 (4)
.950	〃 (5)	.950	〃 (5)
166.550	予定波(1)	171.550	予定波(1)
.600	〃 (2)	.600	〃 (2)
.850	〃 (3)	.850	〃 (3)
.900	〃 (4)	.900	〃 (4)
.950	〃 (5)	.950	〃 (5)

(5) 191センターにおける通話時分分布グラフ

《 通話時分分布グラフ 》

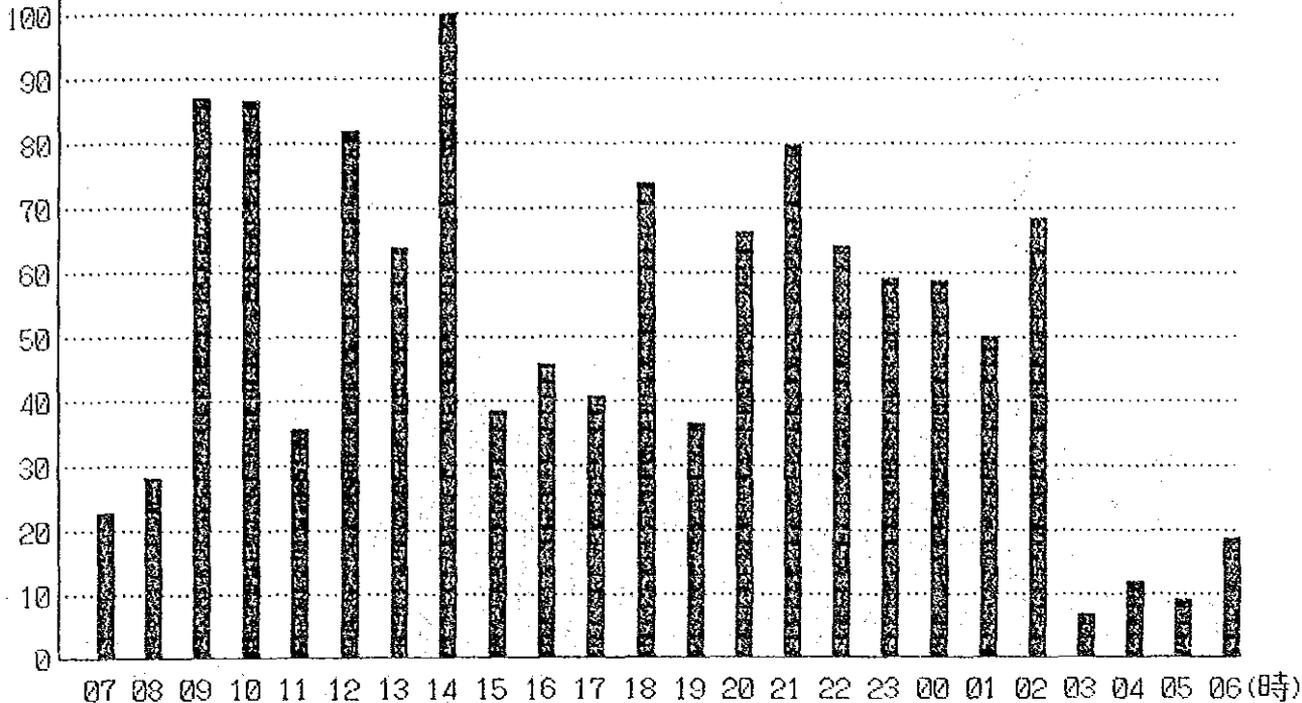


《 通話時分分布グラフ 》



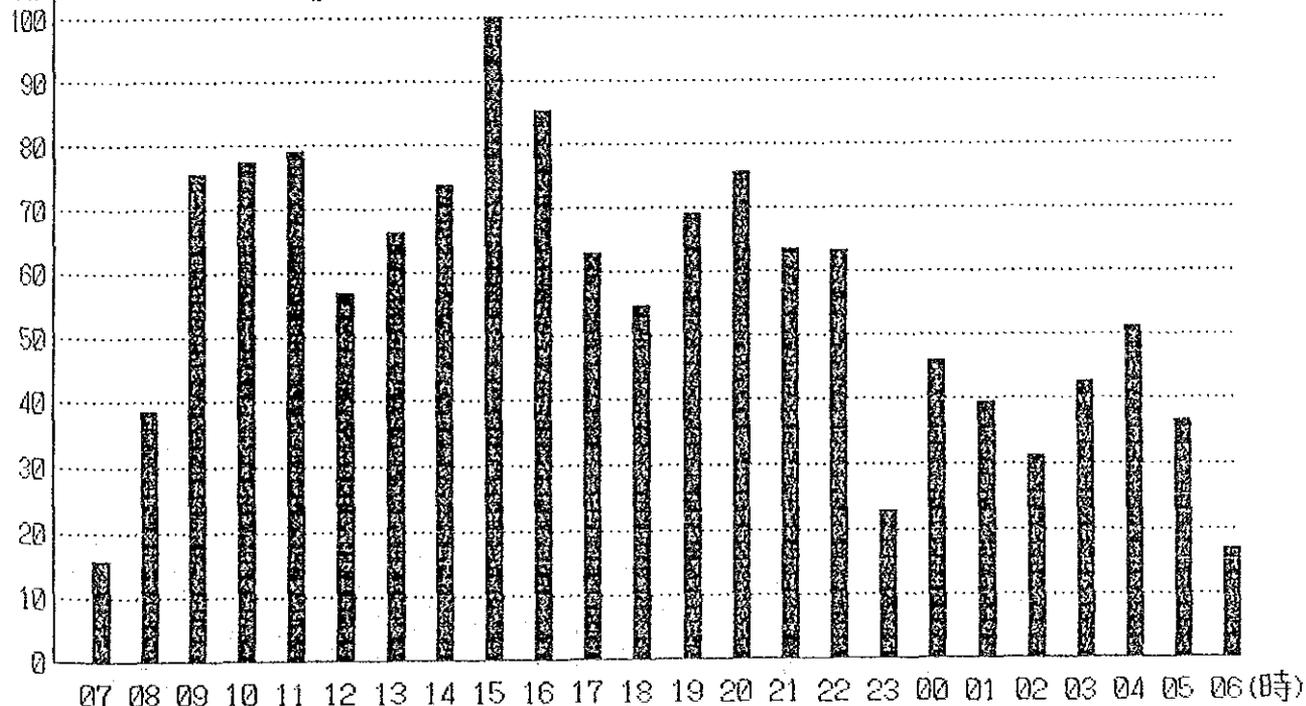
《 通話時分分布グラフ 》

02月 04日  
(%) 100% = 7225 秒



《 通話時分分布グラフ 》

02月 05日  
(%) 100% = 8715 秒



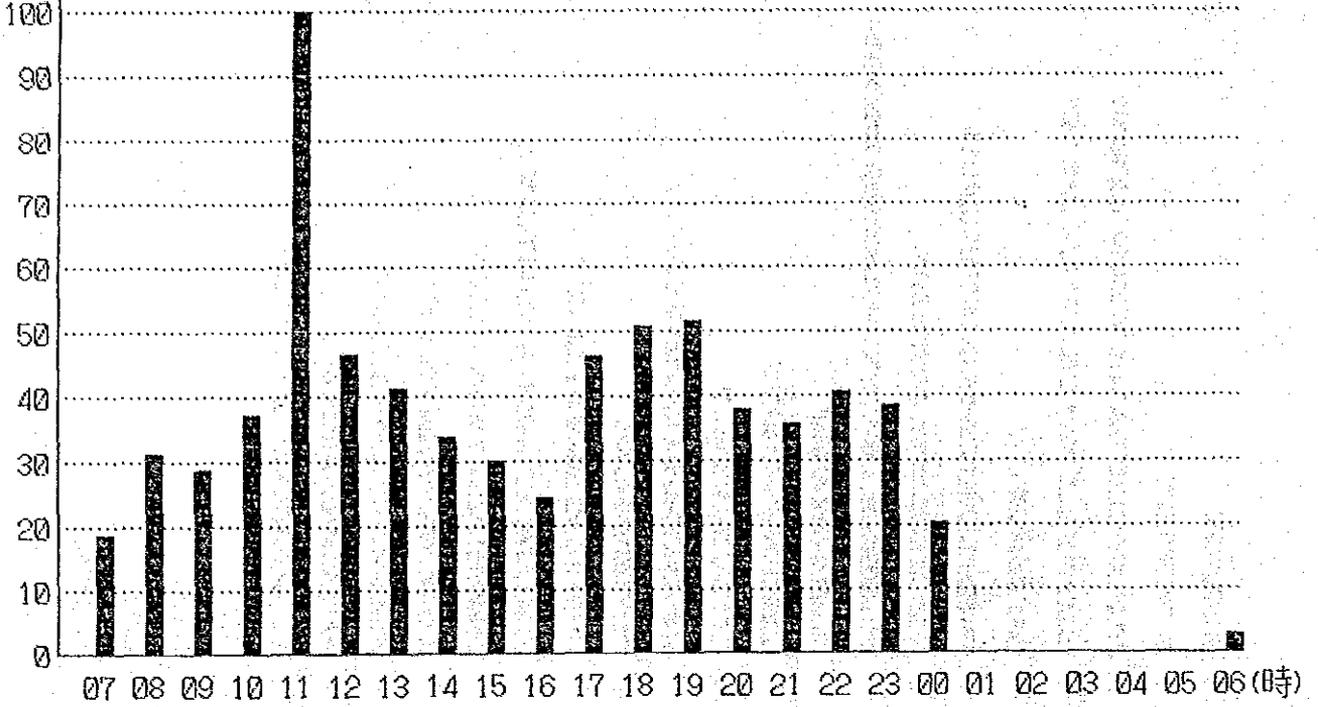
《 通話時分分布グラフ 》

3/3

02月 06日  
(%)

100% = 8862 秒 ブロック：タイ

事業所：警察署

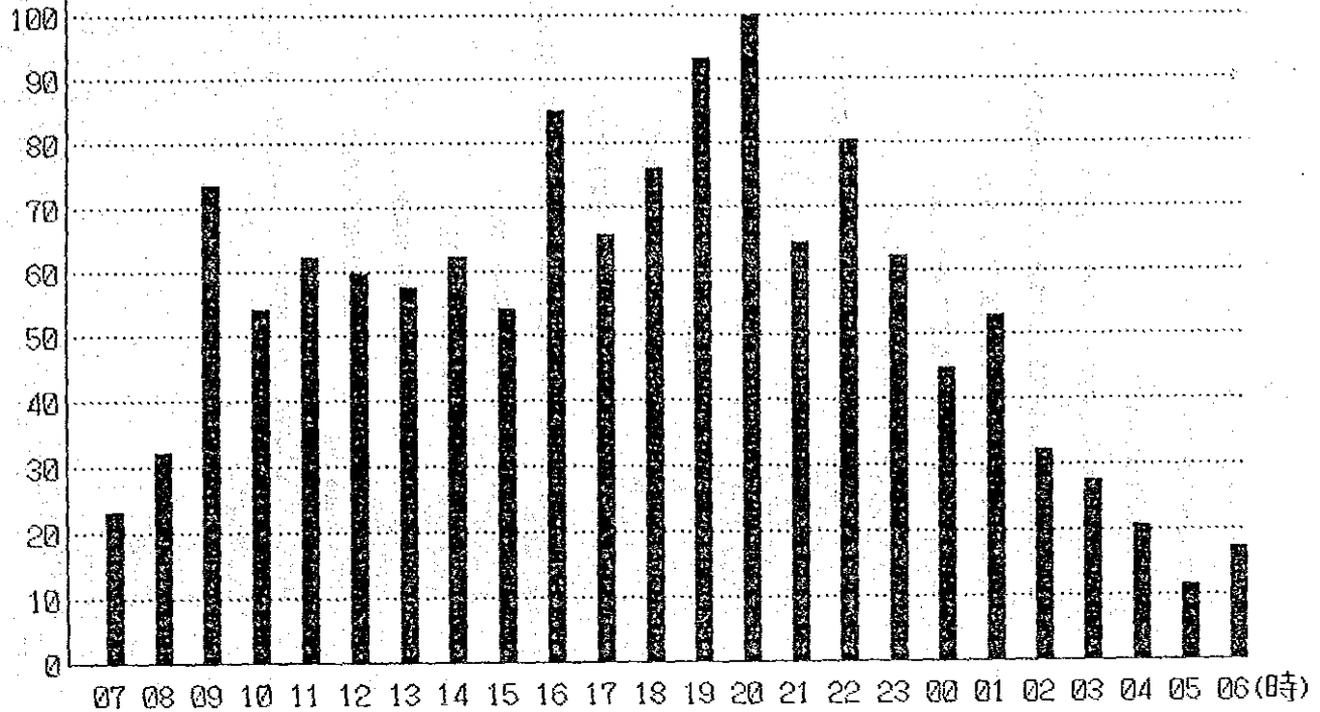


(6) 191センターにおける呼数分布グラフ

《 呼数分布グラフ 》

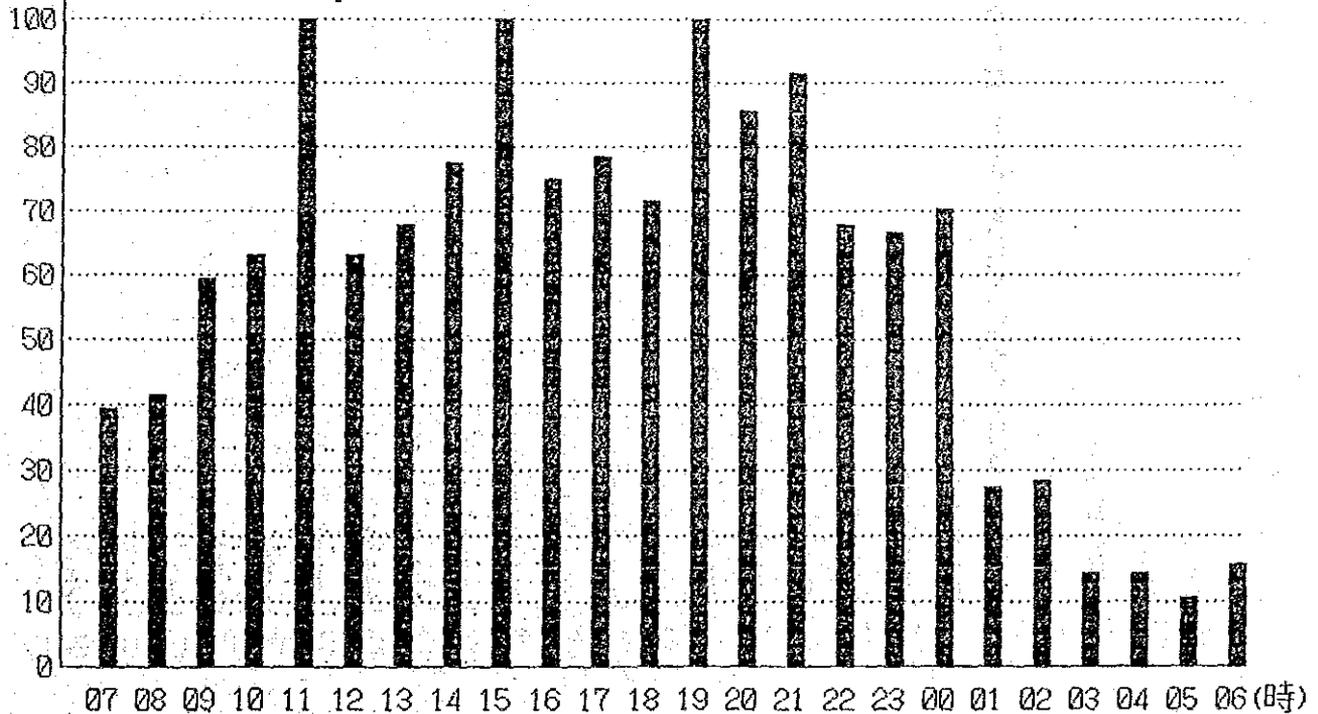
02月 02日  
(%) 100% = 87 呼

1/3



《 呼数分布グラフ 》

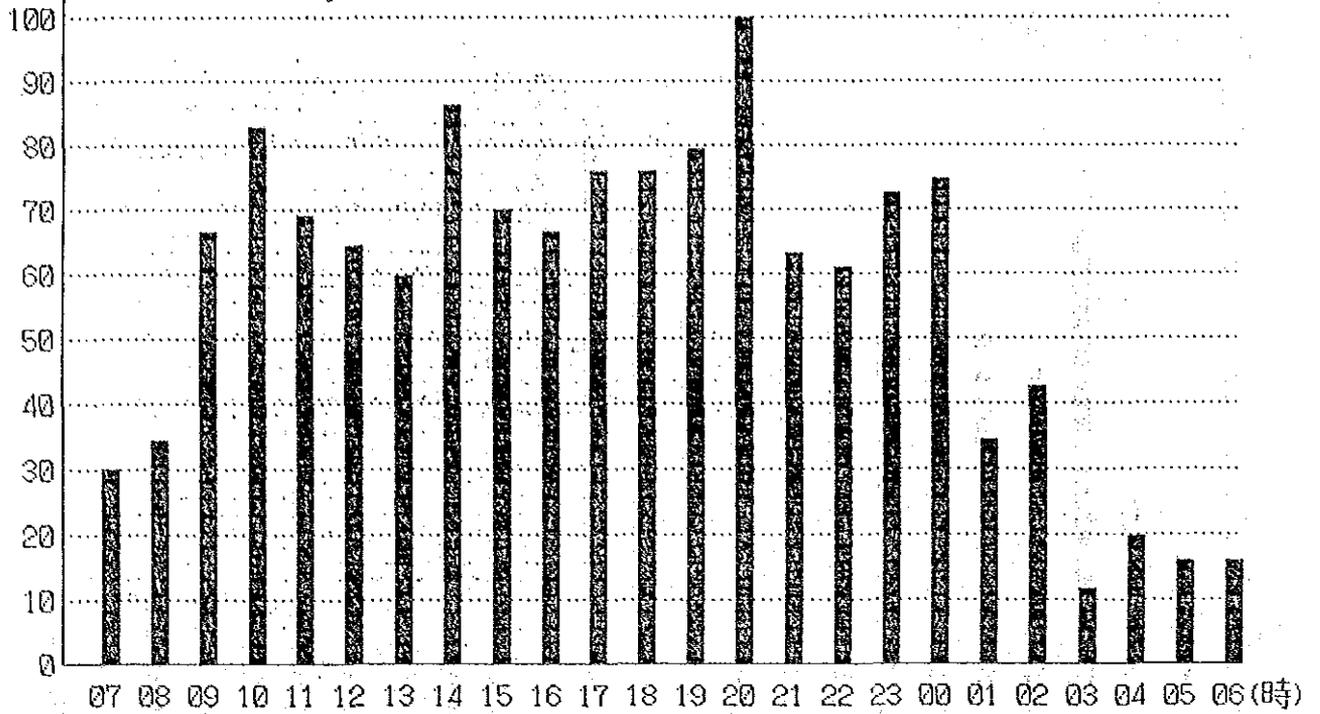
02月 03日  
(%) 100% = 84 呼



《 呼数分布グラフ 》

2/3

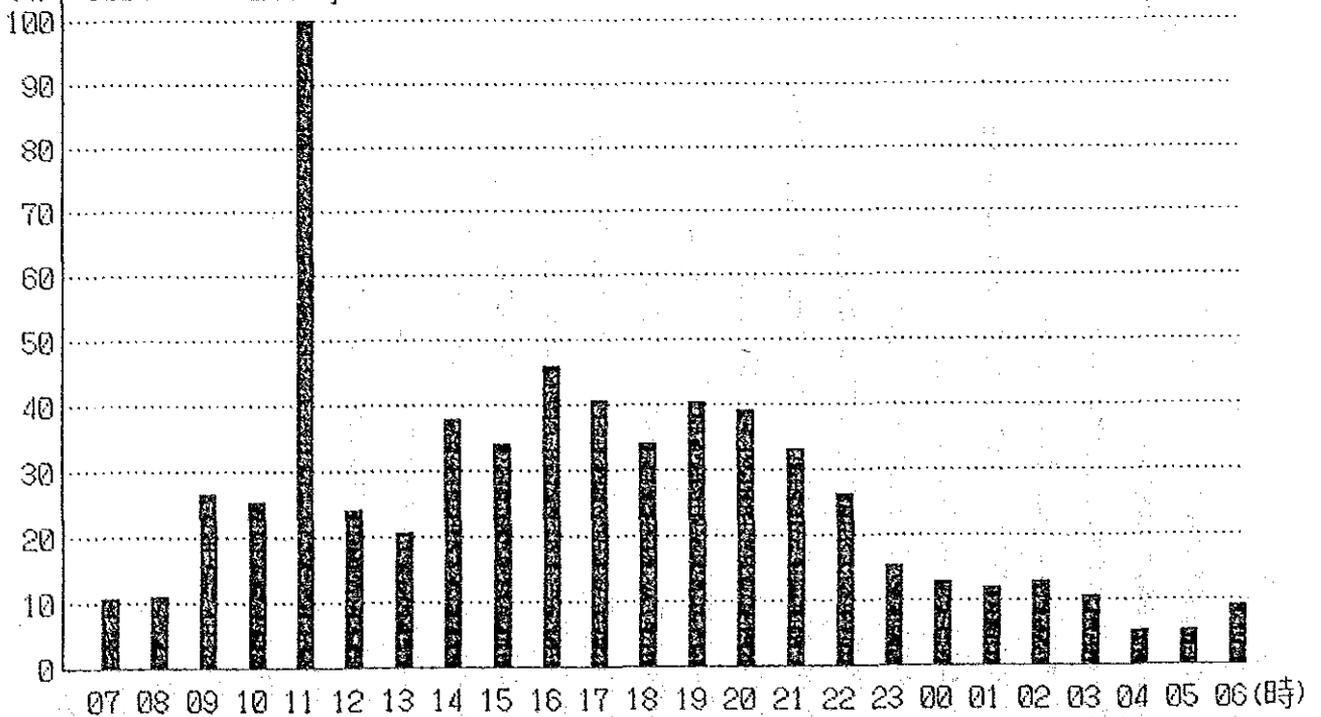
02月 04日  
(%) 100% = 87 呼



タイ警察署

《 呼数分布グラフ 》

02月 05日  
(%) 100% = 244 呼

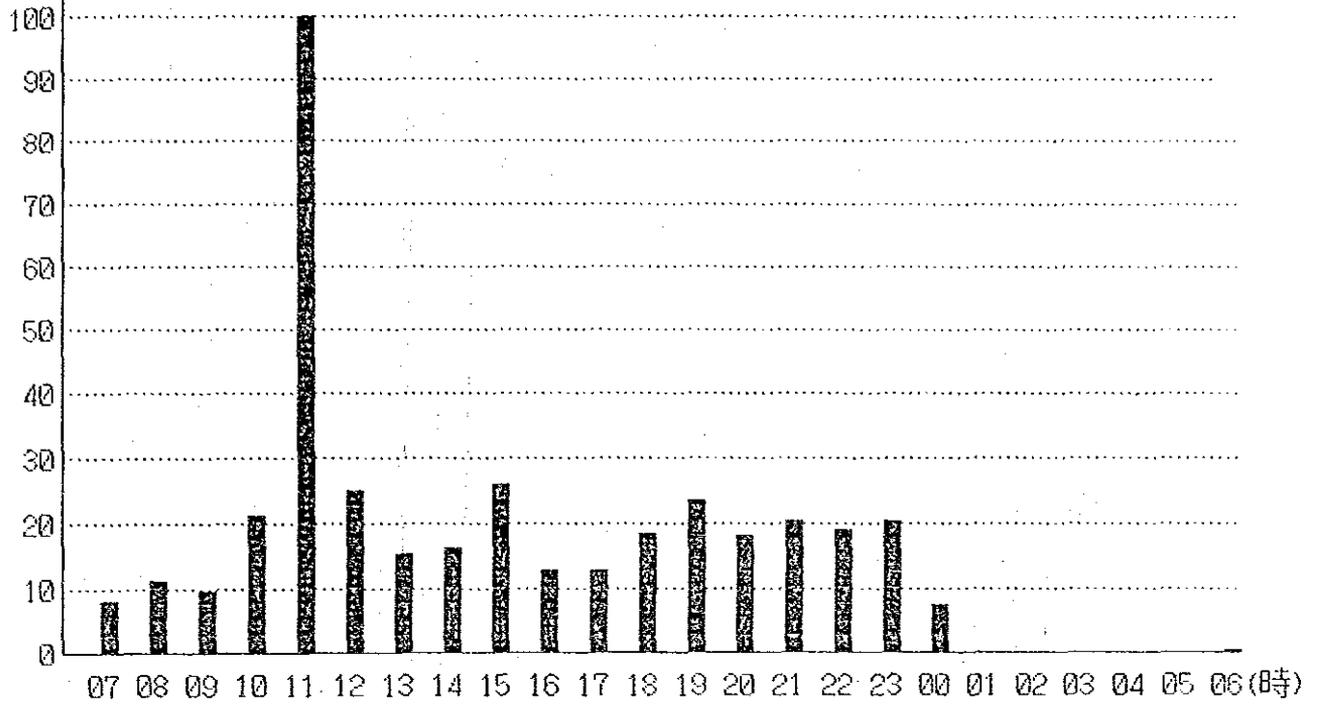


《 呼数分布グラフ 》

02月 06日

3/3

(%) 100% = 377 呼



6. 収集資料

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING		MOTORCYCLE LOADING		HANDY TYPE		FACSIMILE
	AD-& PATROL	MOTORCYCLE		TYPE	RADIO	TYPE	RADIO	RADIO	RADIO	
.POLICE DEPARTMENT	-	-	-	-	-	-	-	-	-	1
.METROPOLITAN POLICE BUREAU	-	-	-	-	-	-	-	13	-	-
.GSD	35	26(61)	-	-	-	-	-	-	-	-
.NBKD	186	522(708)	35	42	-	-	-	52	-	27
.SBKD	146	419(565)	22	25	-	-	-	32	-	17
.TYD	172	322(494)	36	29	-	-	-	54	-	28
.TPD	141	220(361)	2	-	-	-	-	-	-	-
.JAD	13	3 (16)	1	3	-	-	-	-	-	-
.XPSOD ( 191 )	267	224(491)	5	151	-	-	-	69	-	3
* TOTAL *	960	1,736(2696)	101	250	40	40	220	220	76	76

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU & 1

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING		MOTORCYCLE LOADING		HANDY TYPE RADIO	FACSIMILE
	AD-2 PATROL	MOTORCYCLE		TYPE RADIO	TYPE RADIO	TYPE RADIO	TYPE RADIO		
ORTHERN BANGKOK METROPOLITAN DIVISION ( NEWD) " RAMA RADIO CENTER"	-	-	1	-	-	-	-	-	1
GENERAL STAFF SUB-DIVISION	10	4	-	-	-	-	-	-	-
INVESTIGATION SUB-DIVISION	15	2	1	-	-	-	-	-	-
SUB-DIVISION 1	-	-	1	-	-	-	-	-	-
-SARARAT PS. ***	5	21	1	1	-	-	2	2	1
-PRARACHAWANG PS. ***	6	18	1	1	-	-	2	2	1
-CHAKRAHAT PS. ***	5	15	1	1	-	-	2	2	1
SUB-DIVISION 2	-	-	1	-	-	-	-	-	-
-NANGLERNG PS. ****	6	18	1	2	-	-	2	2	1
-CHANASONGKRAM PS. ****	6	21	1	2	-	-	2	2	1
-SAMSEN PS. ****	7	21	1	2	-	-	2	2	1
SUB-DIVISION 3	-	-	1	-	-	-	-	-	-
-DUSIT PS. ***	7	21	1	1	-	-	2	2	1
-PHYATHAI PS. ****	7	32	1	2	-	-	2	2	1
-NAKASAN PS. ***	5	32	1	1	-	-	2	2	1
-HUEY KWANG PS. ....	-	-	1	2	-	-	2	2	1
-DIN DAENG PS. ....	-	-	1	2	-	-	2	2	1

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE VEHICLE LOADING MOTORCYCLE LOADING		HANDY TYPE RADIO	FACSIMILE
	AD. & PATROL	MOTORCYCLE	TYPE	TYPE RADIO		
=SUB-DIVISION 4	-	-	1	-	-	-
=TOH POON PS. ****	6	18	1	2	2	1
=PRACHA CHUN PS. ****	6	18	1	2	2	1
=BANG SUE PS. ****	9	18	1	2	2	1
=SUTHELSAN PS. ****	6	21	1	2	2	1
=PHAHON YOTHIN PS. ****	8	25	1	2	2	1
=SUB-DIVISION 5	-	-	1	-	-	-
=BANG KIEN PS. ****	8	20	1	2	2	1
=DON MUANG PS. ****	8	21	1	2	2	1
=KANNA YAO PS. ****	7	21	1	2	2	1
=SUB-DIVISION 6	-	-	1	-	-	-
=HUA MARK PS. ****	9	28	1	2	2	1
=LAT PHRAO PS. ****	9	20	1	2	2	1
=LAW LAE PS. ( BANG CHUN ) ***	3	21	1	1	2	1
=SUB-DIVISION 7	-	-	1	-	-	-
=MIN BURI PS. ***	4	18	1	1	2	1
=WONG CHOK PS.		18	1	1	2	1
=CHITADAP PS. (LUN PUKSHIE)***	3	9	1	1	2	1
=LAKHIM PS. ***	2	8	1	1	2	1
TOTAL	186	522(708)	35	42	52	27

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING		MOTORCYCLE LOADING TYPE RADIO	HANDY TYPE RADIO	FACSIMILE
	AD-& PATROL	MOTORCYCLE		TYPE RADIO	RADIO			
SOUTHERN BANGKOK METROPOLITAN DIVISION	-	-	1	-	-	-	-	1
(SBMD) "NARAY RADIO CENTER"								
.GENERAL STAFF SUB-DIVISION	10	6	-	-	-	-	-	-
.INVESTIGATION SUB-DIVISION	12	4	1	-	-	-	-	-
.SUB-DIVISION 8	-	-	1	-	-	-	-	-
=CHORAKKE NOI PS. ***	7	16	1	1	-	-	2	1
=PRAWET PS. ***	8	16	1	1	-	-	2	1
=LAT KRABANG PS. ***	6	14	1	1	-	-	2	1
.SUB-DIVISION 9	-	-	1	-	-	-	-	-
=PLAB PLA CHAI 1 PS. ***	7	26	1	1	-	-	2	1
=PLAB PLA CHAI 2 PS. ***	6	27	1	1	-	-	2	1
=PAI-MWAN PS. *****	12	32	1	2	-	-	2	1
.SUB-DIVISION 10	-	-	1	-	-	-	-	-
=LUMBINI PS. *****	10	32	1	2	-	-	2	1
=THUNG MAHA MEK PS. *****	7	23	1	2	-	-	2	1
=BANG PHONG PHANG PS. ***	6	20	1	1	-	-	2	1

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING TYPE RADIO	MOTORCYCLE LOADING TYPE RADIO	HANDY TYPE RADIO	FACSIMILE
	AD.& PATROL	MOTORCYCLE					
SUB-DIVISION 11	-	-	1	-	-	-	-
=BANGRAK PS. ****	9	48	1	2	-	2	1
=YANNAWA PS. ****	7	24	1	2	-	2	1
=HAT PHRAYA KRAI PS. ***	8	19	1	1	-	2	1
SUB-DIVISION 12	-	-	1	-	-	-	-
=PRAKONG PS. *****	7	32	1	2	-	2	1
=BANGNA PS. ****	8	20	1	2	-	2	1
=KHLONG TAN PS. *****	6	13	1	2	-	2	1
=TONG LO PS. *****	10	48	1	2	-	2	1
* TOTAL	146	419(565)	22	25	-	32	17

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU & 5

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING		MOTORCYCLE LOADING		HANDY TYPE RADIO	FACSIMILE
	AD & PATROL	MOTORCYCLE		TYPE RADIO	TYPE RADIO	TYPE RADIO	TYPE RADIO		
THONBURI METROPOLITAN DIVISION	-	-	1	-	-	-	-	-	1
(TMD) "GRUNGTHON RADIO CENTER"									
.GENERAL STAFF SUB-DIVISION	15	8	-	-	-	-	-	-	-
.INVESTIGATION SUB-DIVISION	16	5	1	-	-	-	-	-	-
.SUB-DIVISION 13	-	-	1	-	-	-	-	-	-
=BANG YEE RUA PS. ***	6	12	1	1	-	-	2	-	1
=TALAT PHU PS. ***	6	12	1	1	-	-	2	-	1
=RUPHARAM PS. ***	6	12	1	1	-	-	2	-	1
.SUB-DIVISION 14	-	-	1	-	-	-	-	-	-
=SAM RAY PS. ***	7	18	1	1	-	-	2	-	1
=BURGGHALO PS. ***	9	12	1	1	-	-	2	-	1
=SOMDET CHAO PHRAYA PS. ***	6	18	1	1	-	-	2	-	1
.SUB-DIVISION 15	-	-	1	-	-	-	-	-	-
=BANG KHUN TIAN PS. ***	5	18	1	2	-	-	2	-	1
=RATEURANA PS. ***	6	15	1	2	-	-	2	-	1
=TUNG KRU PS. ***	4	9	1	1	-	-	2	-	1

## TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &amp;

## DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING TYPE RADIO	MOTORCYCLE LOADING TYPE RADIO	HANDY TYPE RADIO	FACSIMILE
	AD & PATROL	MOTORCYCLE					
=TA KHARK PS. ***	5	9	1	1	-	2	1
=BANG MOT PS. ***	6	6	1	1	-	2	1
.SUB-DIVISION 16	-	-	1	-	-	-	-
=PARK KLONG SARN PS. (water)	3	4	1	1	-	2	1
=BANG KHO LAEX PS. (water)	3	4	1	1	-	2	1
=BORNORN MONKOL PS. (water)	3	5	1	1	-	2	1
=BANG PO PS. (water)	3	5	1	1	-	2	1
.SUB-DIVISION 17	-	-	1	-	-	-	-
=BANGKOK NOI PS. ***	7	12	1	1	-	2	1
=BANGKOK YAI PS. ***	8	12	1	1	-	2	1
=TA PRA PS. ***	6	12	1	1	-	2	1
=BANG SON TONG PS. ***	5	12	1	1	-	2	1
.SUB-DIVISION 18	-	-	1	-	-	-	-
=BANG PLAT PS. ***	7	15	1	1	-	2	1
=BANG YEE KHAN PS. ***	5	18	1	1	-	2	1
=TALING CHAN PS. ***	4	12	1	1	-	2	1
=MAT RUAH PS. ***	4	12	1	1	-	2	1

## TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU &amp;

## DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING		MOTORCYCLE LOADING		HANDY TYPE RADIO	FACSIMILE
	AD. & PATROL	MOTORCYCLE		TYPE RADIO	TYPE RADIO	TYPE RADIO	RADIO		
SUP-DIVISION 19	-	-	1	-	-	-	-	-	-
=EHA SRI CHAREY PS. ***	6	12	1	1	-	-	2	1	1
=LAX SONG PS. ***	5	12	1	1	-	-	2	1	1
=NONG KHAEM PS. ***	6	12	1	1	-	-	2	1	1
=SALADAENG PS. ***	3	9	1	1	-	-	2	1	1
* TOTAL	172	322(494)	36	29	-	-	54	28	28

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU & 8

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING TYPE RADIO	MOTORCYCLE LOADING TYPE RADIO	HANDY TYPE RADIO	FACSIMILE
	AD. & PATROL	MOTORCYCLE					
GENERAL STAFF DIVISION ( GSD )	35	26 ( 61 )	-	-	-	-	-
* TOTAL	35	26 ( 61 )	-	-	-	-	-
JUVENILE AID SUB-DIVISION ( JAD )	13	3 ( 16 )	1	3	-	-	-
* TOTAL	13	3 ( 16 )	1	3	-	-	-
TRAFFIC POLICE DIVISION ( TPD )							
• CENTRAL SUB-DIVISION	136	210 ( 346 )	1	-	-	-	-
• MECHANICAL SUB-DIVISION	5	10 ( 15 )	1	-	-	-	-
* TOTAL	141	220 ( 361 )	2	-	-	-	-

TABLE SHOWING THE STATUS OF VEHICLES IN METROPOLITAN POLICE BUREAU & 9

DISTRIBUTION PLAN OF PROPOSAL EQUIPMENT

UNIT	STATUS OF VEHICLE		CONSOLE TYPE	VEHICLE LOADING TYPE RADIO	MOTORCYCLE LOADING TYPE RADIO	HANDY TYPE RADIO	FACSIMILE
	AD. & PATROL	MOTORCYCLE					
METROPOLITAN PATROL AND SPECIAL OPERATION DIVISION (MPSOD.)	8	-	-	8	-	8	-
GENERAL STAFF SUB-DIVISION	13	6 (27)	1	-	-	-	-
COMMUNICATION CONTROL SUB-DIVISION	9	2 (11)	-	-	-	8	3
PATROL SUB-DIVISION	142	66 (208)	1	143	40	45	-
RIOT CONTROL AND SUPPRESSION SUB-DIVISION	23	98 (121)	-	-	-	-	-
SECURITY SUB-DIVISION	52	22(74)	1	-	-	-	-
CANINE SUB-DIVISION	11	15(26)	1	-	-	4	-
MOUNTED PATROL SUB-DIVISION	9	15 (24)	1	-	-	4	-
* TOTAL	267	224 (491)	5	151	40	69	3
POLICE DEPARTMENT	-	-	-	-	-	-	1
* TOTAL	-	-	-	-	-	-	1
METROPOLITAN POLICE BUREAU for Mission & Deputy Assistant Com.	-	-	-	-	-	13	-
* TOTAL	-	-	-	-	-	13	-





